

Phase II Environmental Site Assessment

42 York Street

Location:

42 York Street
Rochester, New York 14614

Prepared for:

City of Rochester
30 Church Street
Rochester, New York 14614

LaBella Project No. 2230119

October 9, 2023



Table of Contents

EXECUTIVE SUMMARY	1
1.0 INTRODUCTION	3
1.1 Limitations & Exceptions.....	3
2.0 BACKGROUND	3
2.1 Site Location and Description	3
2.2 Adjacent Property Use.....	3
2.3 Site History & Land Use	4
2.4 Summary of Previous Studies	4
3.0 OBJECTIVE	4
4.0 FIELD INVESTIGATION - METHODOLOGY	5
4.1 Public Utility Stakeout and Private Mark-Out.....	5
4.2 Test Pitting Study and Soil Sample Analysis	5
4.3 Groundwater Monitoring Well Installation & Sampling.....	5
4.3.1 Groundwater Monitoring Well Installation.....	5
4.3.2 Groundwater Monitoring Well Development.....	6
4.3.3 Groundwater Sampling.....	6
4.4 Investigation Location and Elevation Survey	6
4.5 Community Air Monitoring Program	7
4.6 Laboratory Analytical Program	7
4.6.1 Soil Samples for Laboratory Analysis	7
4.6.2 Groundwater Samples for Laboratory Analysis	8
4.7 Investigation Derived Waste	8
4.8 Deviations to Objective	9
5.0 FINDINGS	9
5.1 Utility Locating.....	9
5.2 Test Pit Evaluation - Localized Geology and Hydrology	9
5.2.1 Geology (Soil).....	9
5.2.2 Hydrology (Groundwater).....	10
5.3 Field Screening Results	10
5.4 Laboratory Analytical Results.....	11
5.4.1 Soil Sample Results.....	11
5.4.2 Groundwater Sample Results	12
5.4.3 Waste Characterization Sample Results.....	12
5.4.4 Quality Assurance / Quality Control.....	13
6.0 CONCLUSIONS	14
7.0 RECOMMENDATION	15
8.0 CLOSING AND SIGNATURE OF ENVIRONMENTAL PROFESSIONAL	15

TABLE OF CONTENTS

Continued

FIGURES

- 1 Site Location Map
- 2 Site Plan Map
- 3 Testing Locations Map
- 4 Groundwater Elevation Map
- 5 Summary of Soil Conditions
- 6 Fill Location and Depths

TABLES

- 1 Sample Log
- 2 Groundwater Elevation Data for August 3, 2023
- 3A Summary of Volatile Organic Compounds in Soil
- 3B Summary of Semi-volatile Organic Compounds in Soil
- 3C Summary of Metals in Soil
- 4A Summary of Volatile Organic Compounds in Groundwater
- 4B Summary of Semi-volatile Organic Compounds in Groundwater
- 4C Summary of Metals in Groundwater
- 5 Summary of Waste Characterization Analytical Results

APPENDIX

- 1 Survey
- 2 Field Logs
- 3 Photo Log
- 4 CAMP Data
- 5 Laboratory Reports
- 6 Data Usability Summary Reports

COMMON / FREQUENT ACRONYMS & ABBREVIATIONS

bgs – Below Ground Surface

CP-51 – (NYSDEC) Commissioner’s Policy #51 (for Soil Cleanup Guidance)

DEC – Department of Environmental Conservation

DUSR – Data Usability Summary Report

ELAP – Environmental Laboratory Approval Program

ESA – Environmental Site Assessment

eV – electron volt

ft – feet

IDW – Investigation Derived Waste

in - inch

NYCRR – New York Codes, Rules and Regulations

NYSDEC – New York State Department of Environmental Conservation

NYSDOH – New York State Department of Health

PAH – polycyclic aromatic hydrocarbon

PID – Photoionization Detector

ppb – Parts Per Billion

ppm – Parts Per Million

RCRA – Resource Conservation and Recovery Act

SCO – Soil Cleanup Objective

SSDS – Sub-Slab Depressurization System

SVOC – Semi-Volatile Organic Compound

TCL – Target Compound List

TCLP – Toxicity Characteristic Leachate Procedure

TOGS – Technical & Operational Guidance Series 1.1.1

TB-## - Test Boring (Number)

TCE – Trichloroethene

TP-## - Test Pit (Number)

USEPA – United States Environmental Protection Agency

VOC – Volatile Organic Compound



EXECUTIVE SUMMARY

Background and Objective

LaBella was retained by the City of Rochester to conduct a Phase II ESA of the property located at 42 York Street, in the City of Rochester, Monroe County, New York (“Site”). The Site is comprised of one approximate 0.48-acre parcel located within the Bull’s Head redevelopment area and is currently an unused paved parking lot located in an urban setting. This Phase II ESA is part of the USEPA Brownfields Multipurpose Grant Program awarded to the City of Rochester in 2021.

An environmental investigation was previously completed for the Site and surrounding properties (by others) in 2018. The previous investigation identified the presence of SVOCs and metals in soil/fill material on the Site, including select areas where heavy metals and SVOCs were present at concentrations exceeding NYSDEC Restricted Residential Use SCOs. The purpose of this Phase II ESA was to further define the nature and extent of contamination identified by the previous investigation. The primary scope of this Phase II ESA included the excavation of test pits, collection of soil samples, installation of a groundwater monitoring well, and collection of groundwater samples.

Scope

Ten (10) test pits were advanced at the Site and one (1) groundwater monitoring well was installed. Six (6) soil samples for further investigation/delineation of contaminants were collected and analyzed for VOCs, SVOCs, and metals concentrations. Six (6) soil samples for waste characterization purposes were analyzed for TCLP VOCs, TCLP SVOCs, TCLP Metals, PCBs, Reactivity, Corrosivity, and Ignitability. Two (2) groundwater samples (one from the newly installed monitoring well and one from an existing monitoring well) were analyzed for VOCs, SVOCs, and metals concentrations. Activities were conducted in accordance with the USEPA-approved QAPP (including collection of QA/QC samples).

Findings / Conclusions

Shallow soil at the Site consists of a layer of material typical of urban soil and fill. The fill layer is generally present across the Site, with varying thickness. The fill is generally thickest (approximately seven (7) feet) on the southern portion of the Site and thinner (approximately two (2) feet) on the northern portion of the Site. The fill contains one or more of the following constituents at each location investigated during this assessment:

- Ash;
- cinders;
- slag;
- brick;
- wood;
- metal;
- glass; and/or,
- stone/concrete fragments.

The finding of urban soil/fill containing ash and cinders is consistent with historic investigation of the Site and surrounding area performed in 2018 (by others).

Lead was detected in exceedance of applicable SCG in one (1) soil/fill sample collected during this assessment, expanding the footprint of previously identified extents where soil/fill in exceedance of applicable SCG is present on the Site. Various other metals (including cadmium, copper, mercury, nickel, and zinc) were detected in exceedance of Unrestricted Use SCOs in one or more samples of the urban soil/fill collected from the Site during this investigation.



Groundwater is present at an approximate depth of five to six (5-6) feet below existing ground surface at the Site. Groundwater is estimated to flow to the northwest across the Site, based on areal data collected during this investigation.

Although not detected in exceedance of applicable SCG, TCE was detected in groundwater at one sample location on the Site.

Apparent bedrock is generally present at an approximate depth of 7 to 9.5 feet below existing ground surface at the Site.

Fill/soil exceeding the standards for hazardous waste via TCLP analysis (waste characterization sampling) has not been identified at the Site.

Recommendation

Urban soil/fill material present at the Site includes (but is not limited to) ash and cinders. These fill materials are considered a solid waste by the NYSDEC that cannot be treated as construction and demolition (C&D) solid waste, due to the nature of its origin as a solid waste derived from an industrial source. In accordance with 6 NYCRR Part 360.13(c), fill materials containing ash and cinders may be managed and placed into similar filled areas within the same site under appropriate cover. Alternatively, these materials can be disposed off-site in a New York State Part 360 permitted landfill. Based on the proposed future development of the Site, the presence of benzo(a)pyrene, arsenic, and lead in exceedance of applicable SCGs (Restricted Residential Use and Commercial Use SCOs) in the urban soil/fill layer in discrete areas, and additional metals in exceedance of Unrestricted Use SCOs in additional areas, it is recommended that any such urban soil/fill be appropriately handled, transported, and disposed at a NYS Part 360 permitted landfill, rather than re-used on-site, as the presence of this fill material places a hindrance on the redevelopment of the property from both an environmental and geotechnical consideration.

In summary, remedial efforts targeting the removal of fill material and the associated SVOCs and metals impacts are recommended in order to provide a clean site that promotes redevelopment.



1.0 INTRODUCTION

LaBella Associates, D.P.C. (“LaBella”) was retained by the City of Rochester to conduct a Phase II Environmental Site Assessment (ESA) of the property located at 42 York Street, in the City of Rochester, Monroe County, New York, hereinafter referred to as the “Site” (see Figures 1 and 2). This Phase II ESA is part of the USEPA Brownfields Multipurpose Grant Program awarded to the City of Rochester in 2021.

The scope and conditions of this ESA were in accordance with Task 3 of LaBella’s Proposal dated August 3, 2022, and the Quality Assurance Project Plan (QAPP) prepared for the assessment (Revision Number 3, dated June 19, 2023).

1.1 Limitations & Exceptions

Work associated with this Assessment was performed in accordance with generally accepted environmental engineering and environmental contracting practices for this region. LaBella Associates, D.P.C., makes no other warranty or representation, either expressed or implied, nor is one intended to be included as part of its services, proposals, contracts, or reports.

In addition, LaBella cannot provide guarantees, certifications, or warranties that the property is or is not free of environmental impairment or other regulated solid wastes. The Client shall be aware that the data and representative samples from any given soil or groundwater sampling point may represent conditions that apply only at that particular location, and such conditions may not necessarily apply to the general Site as a whole and may change with time.

2.0 BACKGROUND

2.1 Site Location and Description

The Site is comprised of one approximate 0.48-acre parcel (SBL #120.42-2-72.001) located at 42 York Street, in the City of Rochester, Monroe County, New York. Refer to Figure 1 for the approximate Site location (map) and Figure 2 for a local site plan. The Site is within the Bull’s Head redevelopment area and is currently an unused paved parking lot. The Site is located in an urban setting.

2.2 Adjacent Property Use

The Site is presently bordered by the following properties:

Direction	Address	Current Land Use
North	50 York Street	Vacant Lot / Undeveloped
East	866 West Main Street	Vacant Lot / Gravel Parking
South	(Beyond Ruby Place ROW) Multiple (888-910 West Main Street)	Vacant Lot / Undeveloped
West	Multiple (24-32 York Street)	Vacant Lot / Undeveloped
	(Beyond York St ROW) Multiple (21-55 York Street)	Single Family Residential



2.3 Site History & Land Use

The Site appeared to be first developed with several residential dwellings and sheds/barns on portions of the parcel from 1892 to at least 1935.

On aerial photographs dated 1988, 1993, and 2003, approximately 15 vehicles are parked on the Site. In addition, apparent dark staining and miscellaneous items (which may be indicative of debris) appear to be located throughout the Site. The staining and debris on the Site may also be indicative of current or former industrial/manufacturing use of the property or affects from surrounding properties. Potential concerns associated with an industrial/manufacturing use of a property include the contamination of soil and/or groundwater if leaks/spills and/or improper handling/disposal of hazardous materials, petroleum products, and/or hazardous wastes has occurred.

2.4 Summary of Previous Studies

A previous environmental investigation was completed for the Site and surrounding properties by Day Environmental in 2018. The previous investigation identified the presence of semi-volatile organic compounds (SVOCs) and metals in soil/fill material on the Site. The prior investigation identified select areas where heavy metals and SVOCs were present at concentrations above Restricted Residential Use Soil Cleanup Objectives (SCOs). More specifically, these impacts were identified in samples collected from test pits TP-13 (sample depth 1-2-ft bgs) and TP-14 (sample depth 3.5-ft bgs), both located on the subject Site (42 York Street).

Further reference to the environmental investigation performed in 2018 is provided throughout this report and the included Figures. On Figures 2 and 5, the 2018 investigation locations are identified as “Historic Soil Boring” and “Historic Test Pit Location.”

3.0 OBJECTIVE

The purpose of this Phase II ESA was to further define the nature and extent of contamination identified by previous investigation of the Site, which identified the presence SVOCs and metals in fill material on the Site.

In addition to field screening and observation, up to six (6) soil samples for laboratory analysis of the following parameters was scoped. These six (6) soil samples were for further investigation and delineation purposes.

- Target Compound List (TCL) and NYSDEC Commissioner Policy (CP)-51 list Volatile Organic Compounds (VOCs) using USEPA Method 8260D;
- TCL and NYSDEC CP-51 list Semi-volatile Organic Compounds (SVOCs) using USEPA method 8270E; and,
- Target Analyte List (TAL) Metals using USEPA 6010D/7471B.

In addition to the six (6) investigation (aka delineation) samples (above), four (4) soil samples for waste characterization purposes were scoped for the following parameters:

- Toxicity Characteristics Leachate Procedure (TCLP) VOCs using USEPA Method 8260D/1311;
- TCLP SVOCs using USEPA Method 8270E/1311;
- TCLP Metals using USEPA Method 6010D/7471B/1311;
- Polychlorinated Biphenyls (PCBs) using USEPA Method 8082A;
- Reactivity using USEPA Methods 9010C and Ch. 7 of SW-846;
- Ignitability using USEPA Method 1030; and,
- Corrosivity (pH) using USEPA Method 9045D.



Finally, to assess groundwater conditions on the Site, two (2) groundwater samples for laboratory analysis of the following parameters was scoped:

- TCL and CP-51 list VOCs using USEPA Method 8260D;
- TCL and CP-51 list SVOCs using USEPA method 8270E; and,
- TAL Metals using USEPA method 6020B/7470A.

4.0 FIELD INVESTIGATION - METHODOLOGY

Field activities associated with this ESA occurred in July-August 2023.

4.1 Public Utility Stakeout and Private Mark-Out

Prior to the initiation of subsurface work, an underground utility stake-out, via *UDig NY*, was completed at the Site to locate public utilities at the perimeter of the Site and along easements.

To supplement the public utility stake-out and further verify that proposed test pit locations would not disrupt subsurface utilities, a private utility mark-out for the investigation areas was completed by On The Mark Utility Locating Services, Inc. on July 5, 2023.

4.2 Test Pitting Study and Soil Sample Analysis

LaBella personnel oversaw the advancement of ten (10) test pits (TP-01 through TP-10) at the Site on July 11-12, 2023. Test pit locations were determined by the results of the public and private utility stakeout, historical records, and limited to approved/accessible areas of the Site. Test pits were excavated to depths ranging from approximately 4.5 to 9.75 feet (ft) below ground surface (bgs). Test pit locations are depicted on Figure 3.

Test pits were advanced by LaBella ENV, LLC, using a Kubota KX080-4 excavator. Soil samples were collected from various depths in each test pit and were visually and physically examined by LaBella personnel. Observations were made of the general lithology, visible layering, evidence of non-native fill/historic fill materials, indications of chemical or other staining, odors, and other distinctive features. Portions of the soil from borings were field screened for the presence of VOCs using a PID equipped with a 10.6 electronvolt (eV) lamp. Positive indications from any of these screening methods are collectively referred to as “evidence of impairment”. PID data and observations from each test pit are included on the test pit logs presented in Appendix 2.

Samples were selected from the test pits for laboratory analysis based on field evidence for the presence of fill materials, field screening, and PID readings to address the environmental concerns identified at the Site. A summary of the soil samples submitted for laboratory analysis are summarized in Section 4.6 (Laboratory Analytical Program).

Upon completion of test pit activities, the excavated materials were returned to the test pits from which they originated from on a first-out, last-in basis. The excavator bucket and tracks were used to compact the backfilled material. No additional compaction / testing was performed. Asphalt present at the surface was segregated from soils and placed back on top of each test pit following backfill.

4.3 Groundwater Monitoring Well Installation & Sampling

4.3.1 Groundwater Monitoring Well Installation

LaBella personnel oversaw the installation of one (1) overburden / bedrock interface groundwater monitoring well (YS-MW-2023-01) on July 17, 2023. The groundwater monitoring well location was determined by the results of the public and private utility stakeout, historical records, and limited to



the accessible area of the Site. The groundwater monitoring well was advanced to a terminal depth of 11.0 ft bgs. The groundwater monitoring well location is depicted on Figure 3.

The groundwater monitoring well was installed by LaBella ENV, LLC, using a Geoprobe Model 7822DT rig. Hollow stem augers having a 4.25-inch interior diameter and an 8-inch exterior diameter, were advanced into the upper 2-feet of bedrock, which was identified at an approximate depth of 7-feet 10-inches bgs. LaBella personnel logged and screened the soil using a PID during well installation. The monitoring well was constructed with 8-ft of 0.010-slot well screen of 2-inch inner diameter Schedule 40 polyvinyl chloride (PVC) screen attached to solid riser piping of the same material to complete the well. The well was installed as an overburden/bedrock interface well that was intended to intersect the top of the overburden groundwater table. The annulus was sand packed with quartz sand to a nominal depth of 1-ft above the screen section and a 0.8-ft bentonite seal was placed above the sand pack. Monitoring well YS-MW-2023-01 was completed with a flush mount well cover grouted into place. The groundwater monitoring well construction log is presented in Appendix 2.

4.3.2 Groundwater Monitoring Well Development

Lu Engineers developed the newly installed groundwater monitoring well (YS-MW-2023-01) on July 19, 2023 (approximately 48 hours after installation). Development occurred by the use of a submersible pump until the well was dry (after approximately 5 gallons (equal to approximately 6.4 well volumes) was removed from the well).

Turbidity noticeably improved during the well development process, based on visual observation.

The groundwater well development log is presented in Appendix 2.

4.3.3 Groundwater Sampling

Lu Engineers collected groundwater samples from monitoring wells YS-MW-2023-01 and MW-01 on July 26, 2023 (one (1) week after development of YS-MW-2023-01). Groundwater samples were collected using low-flow methodologies (bladder pump).

Groundwater purge/flow rates were minimized in an effort to limit drawdown of groundwater in the wells (i.e., to ensure the water table remained within proximity to the initial static water level depth). During purging activities, groundwater passed through a flow through cell equipped with a YSI Pro DDS water quality meter that measured certain groundwater quality parameters. After passing through the cell, the groundwater was discharged and temporarily contained in 5-gallon buckets (before ultimate placement in a 55-gallon drum, labeled, and left on-site pending proper disposal). The following water quality parameters were measured and recorded at five (5) minute intervals during the groundwater purge and sampling process. Groundwater samples for laboratory analysis were collected once the parameters stabilized according to the provided allowances:

- Temperature (+/- 3%)
- pH (+/- 0.1 unit)
- Dissolved oxygen (+/- 10%)
- Specific conductance (+/- 3%)
- Oxidation reduction potential (+/- 10 millivolts)
- Turbidity (+/- 10% or <50 NTU for metals is possible)

Groundwater samples submitted for laboratory analysis are summarized in Section 4.6 (Laboratory Analytical Program). Groundwater sampling logs are included in Appendix 2.

4.4 Investigation Location and Elevation Survey

Costich Engineering, D.P.C., a professional land surveyor (PLS), collected investigation location and elevation information on August 3, 2023, under the supervision and direction of LaBella personnel.



The survey included collection of data from beyond the limits of the Site, where historic investigation has occurred (i.e., historic/existing groundwater monitoring wells in the vicinity of the Site) in support of preparing an areal groundwater elevation contour map.

The information collected during the survey has been used throughout this report, including all Figures herein. The complete survey has been included as Appendix 1.

4.5 Community Air Monitoring Program

Air monitoring was completed in accordance with the NYSDOH Generic Community Air Monitoring Plan (CAMP) during intrusive subsurface activities. The CAMP includes the use of PIDs and particulate monitoring equipment (i.e., 'DustTrak') to document VOCs and airborne dust/particulate in real-time. Data from upwind (background) and downwind of the work area is compared over fifteen (15) minute intervals.

Air monitoring instruments were calibrated and maintained in accordance with the manufacturer's specifications.

No exceedances of applicable air quality standards were observed during field investigation activities where active air monitoring (CAMP implementation) occurred.

Refer to Appendix 4 for CAMP data and equipment calibration certificates.

4.6 Laboratory Analytical Program

Soil and groundwater samples collected for laboratory analysis were placed directly into laboratory-supplied containers, preserved as appropriate in a cooler, and submitted under standard chain-of-custody protocol to the local office of Alpha Analytical (in Rochester, NY) for courier service to Alpha Analytical's laboratory in Westborough, Massachusetts. Alpha Analytical is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory.

The following samples were submitted for laboratory analysis:

4.6.1 Soil Samples for Laboratory Analysis

Sample ID	Exploration Location	Sample Depth (ft bgs)	Laboratory Analysis
TP-02-3-4 FT	TP-02	3.0 - 4.0	<ul style="list-style-type: none">• CP-51 & TCL VOCs and TICs• CP-51 & TCL SVOCs and TICs• TAL Metals
TP-03-0.5-2 FT	TP-03	0.5 - 2.0	
TP-04-0.5-2.5 FT	TP-04	0.5 - 2.5	
TP-05-0.5-2.5 FT	TP-05	0.5 - 2.5	
TP-06-0.4-3 FT	TP-06	0.4 - 3.0	
TP-07-2.0-4.5 FT	TP-07	2.0 - 4.5	
BD-01-3-4 FT (TP-02-3-4 FT)	TP-02	3.0 - 4.0	

(table continues on next page)



Sample ID	Exploration Location	Sample Depth (ft bgs)	Laboratory Analysis
WC-01-0.25-5 FT	TP-01	0.25 - 5.0	<ul style="list-style-type: none"> • TCLP VOCs • TCLP SVOCs • TCLP Metals • PCBs • Reactivity • Ignitability • Corrosivity (pH)
WC-02-0.75-2 FT	TP-09	0.75 - 2.0	
WC-03-1-6 FT	TP-08	1.0 - 6.0	
WC-04-3.5-6.5 FT	TP-10	3.5 - 6.5	
WC-08-0.4-3 FT	TP-06	0.4 - 3.0	

Table Notes:

1. USEPA TCL and NYSDEC Commissioner Policy (CP-51) list volatile organic compound (VOC) analysis performed via USEPA Method 8260D.
2. USEPA TCL and NYSDEC CP-51 lists of semi-volatile organic compounds (SVOCs) analysis performed via USEPA Method 8270E.
3. Target Analyte List (TAL) metals analysis performed via USEPA Methods 6010D.
4. Tentatively Identified Compounds (TICs) are an additional tool the USEPA uses to characterize potentially hazardous site. The USEPA refers to chemicals observed in the analysis, but not on the "Target Compound List" (TCL), as unknown compounds.
5. Toxicity Characteristic Leaching Procedure (TCLP) analysis performed via USEPA 1311.
6. Polychlorinated Biphenyls (PCBs) analysis performed via USEPA method 8082A.
7. Ignitability analysis performed via USEPA 1030.
8. Reactive Cyanide and Sulfide analysis performed via USEPA 9010C and Ch. 7.
9. Corrosivity (pH) analysis performed via USEPA method 9045D.

4.6.2 Groundwater Samples for Laboratory Analysis

Sample ID	Exploration Location	Screened Interval (ft bgs)	Laboratory Analysis
YS-MW-2023-01	YS-MW-2023-01	3.0 - 11.0	<ul style="list-style-type: none"> • CP-51 & TCL VOCs • CP-51 & TCL SVOCs • TAL Metals
MW-01	MW-01	3.5 - 10.5	
YS-MW-BD-072623 (YS-MW-2023-01)	YS-MW-2023-01	3.0 - 11.0	

Table Notes:

1. USEPA TCL and NYSDEC CP-51 list VOCs analysis performed via USEPA Method 8260D.
2. USEPA TCL and NYSDEC CP-51 list SVOCs analysis performed via USEPA Method 8270E.
3. TAL metals analysis performed via USEPA Method 6020B/7470A.

4.7 Investigation Derived Waste

Two (2) fifty-five (55) gallon steel drums of investigation derived waste (IDW) were generated during this investigation:

- One (1) drum of excess soil cuttings generated by the installation of groundwater monitoring well YS-MW-2023-01; and,
- One (1) drum of groundwater generated by the development of groundwater monitoring well YS-MW-2023-01 and the pre-sampling purging of groundwater monitoring wells YS-MW-2023-01 and MW-01 (historic well).

Both drums are only partially filled and have been appropriately labeled and staged on-site. Additional groundwater generated by potential future sampling/monitoring events may be added to the



groundwater drum. Each drum is pending appropriate future disposal.

4.8 Deviations to Objective

Based on field observations and a re-evaluation of the estimated quantity of fill material present on the Site, two (2) additional waste characterization samples (for a total of six (6) waste characterization samples) were collected during this assessment. The additional samples are necessary for obtaining approval to dispose of the additional material expected to require off-site transport/disposal, based on fill layer thickness observations made during the field investigation.

5.0 FINDINGS

5.1 Utility Locating

LaBella notified *UDig NY* of the pending subsurface investigation planned for the Site so that public buried utilities would be field-marked prior to initiating any excavation/test pits or groundwater monitoring well installation activities. Via the *UDig NY* stakeout process, no public utilities were identified in an area of concern relative to the proposed investigation.

On July 5, 2023, a private utility locator (On The Mark Locating) used GPR and electro-magnetic sensing equipment to clear an approximately fifteen (15) foot radius around each investigation area to re-confirm that no buried utilities or other subsurface anomalies were present.

No buried utilities or other subsurface anomalies were identified by the private utility locating process.

5.2 Test Pit Evaluation - Localized Geology and Hydrology

5.2.1 Geology (Soil)

Ten (10) test pits were advanced at the Site on July 12-13, 2023, designated TP-01 through TP-10.

Most of the Site is covered by an approximately 0.25-ft thick layer of broken asphalt. An approximately 0.5-ft thick layer of angular subbase gravel exists beneath the asphalt layer. Noticeable urban fill (including apparent ash, brick, various forms of metal, slag, glass, wood, and apparent dolostone building footer blocks) was observed below the asphalt and asphalt subbase (gravel) layers, with the exception of test pit TP-02 (where urban fill was not observed). Soil beneath the urban fill/ash layer consisted generally of light tan to brown fine sand, some silt, little sub-rounded gravel including limestone, red sandstones, dolostones, trace amounts of chert, trace plastic clay, and trace cobbles. Apparent bedrock was encountered at depths ranging from 4.5 to 9.75 ft bgs. No oxidation-transition zone was identified in any of the ten (10) test pits completed.

Below is a table summarizing the fill identified in each of the ten (10) test pits advanced during this investigation:

Location / Sample ID	Depth Range of Identified Fill (ft bgs)	Identified Fill Material Type
TP-01	1.5 - 3.0	Little brick
	3.0 - 5.0	Ash layer including glass and wood
TP-02	<i>No identified fill material</i>	
TP-03	0.5 - 2.0	Wood planks; brick; metal; apparent black cinders
	3.0 - 5.0	Ash fill layer including glass and wood



Location / Sample ID	Depth Range of Identified Fill (ft bgs)	Identified Fill Material Type
TP-04	0.5 - 2.0	Black stained fill material – apparent brick road with ash and terracotta subbase on the northeast end of test pit; apparent dolostone building foundation blocks on the west end of the test pit.
TP-05	0.5 - 2.5	Ash layer including brick, slag, wire, and glass
TP-06	1.4 - 3.0	Ash layer on the south end of test pit including metal; gaskets; brick; glass; apparent burnt rock
TP-07	2.0 - 4.5	Ash layer including glass; slag; metal; burnt wood
TP-08	1.0 - 1.25	Ash
	1.25 - 2.0	Slag; charcoal
	2.0 - 7.0	Fine sand intermixed with brick and metal
TP-09	0.75 - 2.0	Ash; glass; brick
TP-10	2.0 - 6.5	Brick; metal; glass; ash
	6.5 - 9.5	Possible dolostone footer wall blocks

Refer to Figure 6 for a depiction of fill locations and depths.

5.2.2 Hydrology (Groundwater)

Groundwater was encountered in test pits TP-06 and TP-07 at depths of approximately 6.0 and 5.4 ft bgs, respectively.

The limited number of groundwater monitoring wells on the Site limits the ability to infer groundwater flow direction solely based on Site data. In lieu of such, depth to groundwater data collected from existent groundwater monitoring wells in the vicinity of the Site (on adjacent and nearby City-owned parcels) was used to generate an areal groundwater contour map. Figure 4 displays approximate groundwater elevation contours and flow direction using surveyed elevations and depth to groundwater measurements collected on August 3, 2023. Based on the measurements and Figure 4, groundwater appears to flow to the northwest in the vicinity of the Site, generally consistent with the assumed regional flow toward Lake Ontario, north of the Site.

5.3 Field Screening Results

The table below summarizes PID readings obtained at various depth intervals from the Phase II investigation. As shown in the table, no detectable PID response was observed during the investigation.

Summary of PID Readings

Location ID	Approximate Sample Interval (ft bgs)				
	0-2	2-4	4-6	6-8	8-10
TP-01	0.0	0.0*	0.0*	0.0	0.0
TP-02	0.0	0.0*	0.0	0.0	0.0
TP-03	0.0*	0.0	0.0	0.0	0.0
TP-04	0.0*	0.0	0.0	0.0	0.0
TP-05	0.0*	0.0*	0.0	--	--
TP-06	0.0*	0.0*	0.0	0.0	--
TP-07	0.0	0.0*	0.0*	0.0	--



Location ID	Approximate Sample Interval (ft bgs)				
	0-2	2-4	4-6	6-8	8-10
TP-08	0.0*	0.0	0.0	0.0	--
TP-09	0.0	0.0	0.0	0.0	0.0
TP-10	0.0	0.0	0.0	0.0	0.0

Notes:

1. All PID readings were collected utilizing a Minirae 3000 photoionization detector and are expressed in parts per million.
2. The PID screening is performed as a method of determining general presence of VOCs in soil, and to provide a basis for selecting samples for laboratory analysis. The readings obtained provide only an indication of the relative levels of VOC presence in the soil and is not considered to be a direct quantization of actual soil VOC concentration.
3. "--" denotes boring not completed to above-listed depth or insufficient recovery occurred at specified depth.
4. "*" denotes a soil sample was submitted for laboratory analysis from this interval.

5.4 Laboratory Analytical Results

The purpose/objective of the Phase II ESA is to evaluate the nature and extent of contamination at the Site to determine the remediation necessary to redevelop the Site. The Site is located in a mixed residential/commercial area; therefore, the data generated during the course of the project is compared to the following NYSDEC Standards, Criteria and Guidance (SCGs) most appropriate for such proposed redevelopment.

Soil

- NYSDEC Part 375 Restricted Residential Use Soil Cleanup Objectives (SCOs) (12/14/2006)
- NYSDEC Part 375 Commercial Use SCOs (12/14/2006)
- NYSDEC CP-51 Soil Cleanup Levels (10/21/2010)
- Maximum Concentration of Contaminants for Toxicity Characteristic (RCRA Hazardous Waste "D-List" – CFR Part 261)

Groundwater

- NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (6/1998 and subsequent updates).

5.4.1 Soil Sample Results

VOCs:

Soil samples from six (6) locations were analyzed for VOCs. VOCs were not detected in any of the samples. As such, no exceedances of applicable VOC SCGs were identified.

SVOCs:

Soil samples from six (6) locations were analyzed for SVOCs. SVOCs were detected in two (2) of the samples. However, no exceedances of applicable SVOC SCGs were identified.

Metals:

Soil samples from six (6) locations were analyzed for metals. Metals were detected in each of the samples (Note: many metals are naturally occurring in the environment and are routinely detected at 'background' concentrations in soil. Only when metals concentrations exceed Unrestricted Use SCOs are they of potential concern).

At least one metal was detected at a concentration exceeding its Unrestricted Use SCO in five (5) of



the samples. Exceedances of Unrestricted Use SCO for metals included at least one of the following:

- cadmium;
- copper;
- lead;
- mercury;
- nickel; and/or,
- zinc.

Lead was detected at a concentration exceeding its Restricted Residential Use SCO and Commercial Use SCO in one (1) sample/location (TP-04).

For a complete summary of analyzed and detected compounds in soil, refer to Tables 3A, 3B, and 3C. Refer also to Figure 5 (Summary of Soil Conditions).

5.4.2 Groundwater Sample Results

VOCs:

Groundwater samples from two (2) locations were analyzed for VOCs.

The VOCs trichloroethene (TCE) and acetone were detected at one location; however, the detected concentrations do not exceed their applicable SCGs.

No other VOCs were detected in the groundwater samples collected.

SVOCs:

Groundwater samples from two (2) locations were analyzed for SVOCs.

The SVOC pentachlorophenol (PCP) was detected at both locations; however, the detected concentrations do not exceed the applicable SCG.

Trace concentrations of various polyaromatic hydrocarbons (PAHs – a subset of SVOCs) were detected at one location. However, the detected concentrations were below the laboratory method reporting limit and are therefore qualified as estimates, and the results were not reproduced in the field duplicate collected from the same location.

Metals:

Groundwater samples from two (2) locations were analyzed for metals.

Metals were detected in each of the samples (*Note: many metals are naturally occurring in the environment and are routinely detected at 'background' concentrations in soil and groundwater. Only when metals concentrations exceed SCGs are they of potential concern*).

Iron was detected at a concentration exceeding its SCG in both locations. The detected concentration was not reproduced in the field duplicate collected from the same location (one field duplicate).

For a complete summary of analyzed and detected compounds in groundwater, refer to Tables 4A, 4B, and 4C.

5.4.3 Waste Characterization Sample Results

Six (6) soil samples were collected and analyzed for waste characterization purposes, including via Toxicity Characteristic Leachate Procedure (TCLP) procedures, for total polychlorinated biphenyls



(PCBs), and hazardous waste characteristics (reactivity, ignitability, and corrosivity).

TCLP VOCs:

No targeted VOCs were detected by TCLP analysis of the soil/fill.

TCLP SVOCs:

No targeted SVOCs were detected by TCLP analysis of the soil/fill.

TCLP Metals:

Trace concentrations of barium, cadmium, and lead were detected by TCLP analysis of the soil/fill; however, the detected concentrations do not exceed the applicable TCLP standard.

Reactivity:

Reactive cyanide and sulfide were not detected within the soil/fill.

Corrosivity:

The soil/fill is relatively neutral (non-corrosive), with a pH ranging from 7.07 to 8.32.

Ignitability:

The soil/fill is not ignitable (i.e., flash point greater than 140° F).

5.4.4 Quality Assurance / Quality Control

Soil QA/QC Samples

One Matrix Spike/Matrix Spike Duplicate (MS/MSD) for VOCs, SVOCs, and metals in soil was collected.

One blind field duplicate for VOCs, SVOCs, and metals in soil was collected. The blind field duplicate results are reported alongside their respective parent sample in the attached Summary Tables. There was general agreement between the duplicate and parent sample results for all parameters.

Groundwater QA/QC Samples

One MS/MSD for VOCs, SVOCs, and metals in groundwater was collected.

One blind field duplicate for VOCs, SVOCs, and metals in groundwater was collected. The blind field duplicate results are reported alongside their respective parent sample in the attached Summary Tables. There was general agreement between the duplicate and parent sample results for VOCs. Trace concentrations of SVOCs in the parent sample were not reproduced in the duplicate sample for SVOCs. For metals analysis, the SCG exceedance of iron identified in the parent sample was not reproduced in the duplicate sample.

It is possible that turbidity varied between the parent and duplicate groundwater samples (i.e., that the parent sample was more turbid than the duplicate sample), which can result in differing results for SVOCs and metals. A more turbid sample may contain concentrations of SVOCs and metals as a result of the presence of suspended sediment.

A Trip Blank accompanied the groundwater samples collected for VOCs analysis. No VOCs were detected in the Trip Blank sample, indicating no concerns with cross-contamination of the groundwater samples by VOCs during sample collection/handling and transport.

Data Usability Summary Report

Data Usability Summary Reports (DUSR) and third-party data validation was provided by Laboratory Data Consultants, Inc. A separate DUSR was prepared for the soil and groundwater data obtained during this assessment, since the samples were collected on different days and submitted under



separate chain of custody (i.e., separate laboratory reports).

As stated in the DUSR, all results are usable as reported or usable with minor qualification due to laboratory quality control outliers and/or sample matrix. The complete DUSR are included in Appendix 6 for reference.

Qualifiers added by the data validation process have been included in the Summary Tables, where applicable.

6.0 CONCLUSIONS

Based on the findings of this Phase II ESA, the following conclusions have been drawn:

- Shallow soil at the Site consists of a layer of material typical of urban soil and fill. The fill layer is generally present across the Site, with varying thickness. The fill is generally thickest (approximately seven (7) feet) on the southern portion of the Site and thinner (approximately two (2) feet) on the northern portion of the Site. The fill contains one or more of the following constituents at each location investigated during this assessment:
 - Ash;
 - cinders;
 - slag;
 - brick;
 - wood;
 - metal;
 - glass; and/or,
 - stone/concrete fragments.

Urban fill materials (including those containing ash and cinders) are considered a solid waste by the NYSDEC (see Section 7.0 – Recommendations, for further information).

The finding of urban soil/fill containing ash and cinders is consistent with historic investigation of the Site and surrounding area performed in 2018 (by others).

- Lead was detected in exceedance of applicable SCG in the soil/fill sample collected from TP-04 (0.5-2.5 ft bgs) (material unsuitable to remain where Restricted Residential or Commercial Use is planned). This finding expands the footprint of previously identified extents where soil/fill in exceedance of applicable SCG is present on the Site (i.e., TP-13 1-2 ft bgs and TP-14 3.5 ft bgs).
- Various other metals (including cadmium, copper, mercury, nickel, and zinc) were detected in exceedance of Unrestricted Use SCOs in one or more samples of the urban soil/fill collected from the Site during this investigation.
- Groundwater is present at an approximate depth of five to six (5-6) feet below existing ground surface at the Site. Groundwater is estimated to flow to the northwest across the Site, based on areal data collected during this investigation.
- Iron was detected in exceedance of applicable SCG in the two (2) groundwater samples collected from the Site.
- Although not detected in exceedance of applicable SCG, TCE was detected in groundwater at one sample location on the Site.



- Apparent bedrock is generally present at an approximate depth of 7 to 9.5 feet below existing ground surface at the Site.
- Fill/soil exceeding the standards for hazardous waste via TCLP analysis has not been identified at the Site, based on field observations and analytical data.

7.0 RECOMMENDATION

Urban soil/fill material present at the Site includes (but is not limited to) ash and cinders. These fill materials are considered a solid waste by the NYSDEC that cannot be treated as construction and demolition (C&D) solid waste, due to the nature of its origin as a solid waste derived from an industrial source. In accordance with 6 NYCRR Part 360.13(c), fill materials containing ash and cinders may be managed and placed into similar filled areas within the same site under appropriate cover. Alternatively, these materials can be disposed off-site in a New York State Part 360 permitted landfill. Based on the proposed future development of the Site, the presence of benzo(a)pyrene, arsenic, and lead in exceedance of applicable SCGs (Restricted Residential Use and Commercial Use SCOs) in the urban soil/fill layer in discrete areas, and additional metals in exceedance of Unrestricted Use SCOs in additional areas, it is recommended that any such urban soil/fill be appropriately handled, transported, and disposed at a NYS Part 360 permitted landfill, rather than re-used on-site, as the presence of this fill material places a hindrance on the redevelopment of the property from both an environmental and geotechnical consideration. In summary, remedial efforts targeting the removal of fill material and the associated SVOCs and metals impacts are recommended in order to provide a clean site that promotes redevelopment.

8.0 CLOSING AND SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

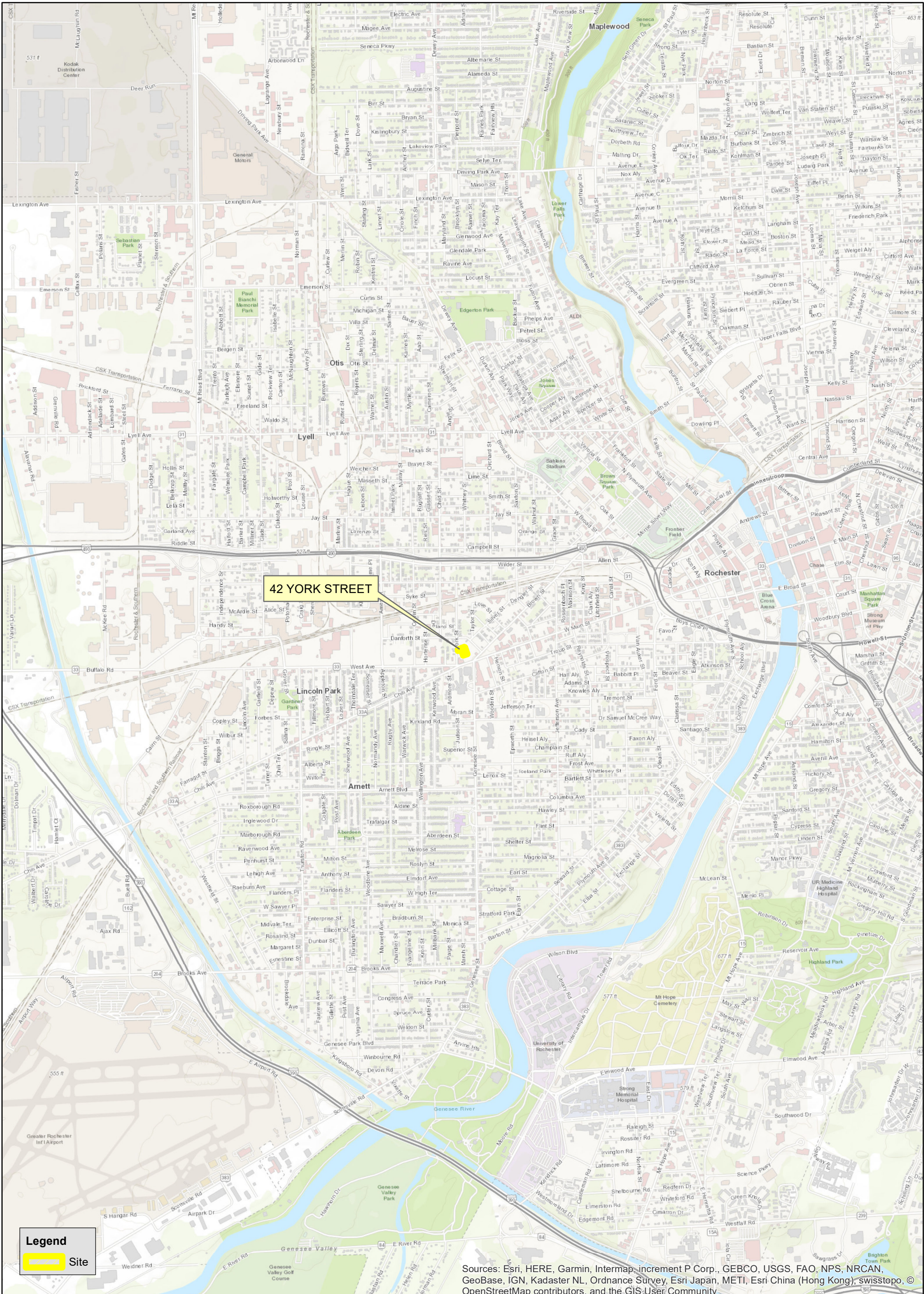
Thank you for the opportunity to provide our professional environmental engineering and consulting services for this project. If you have any questions pertaining to this report, please feel free to reach out to me directly at 585-287-9089 or at dbrantner@labellapc.com.

Alex daSilva
Staff Geologist

Drew Brantner
Project Manager/Qualified Environmental
Professional



FIGURES

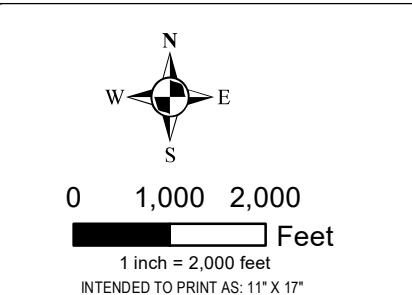


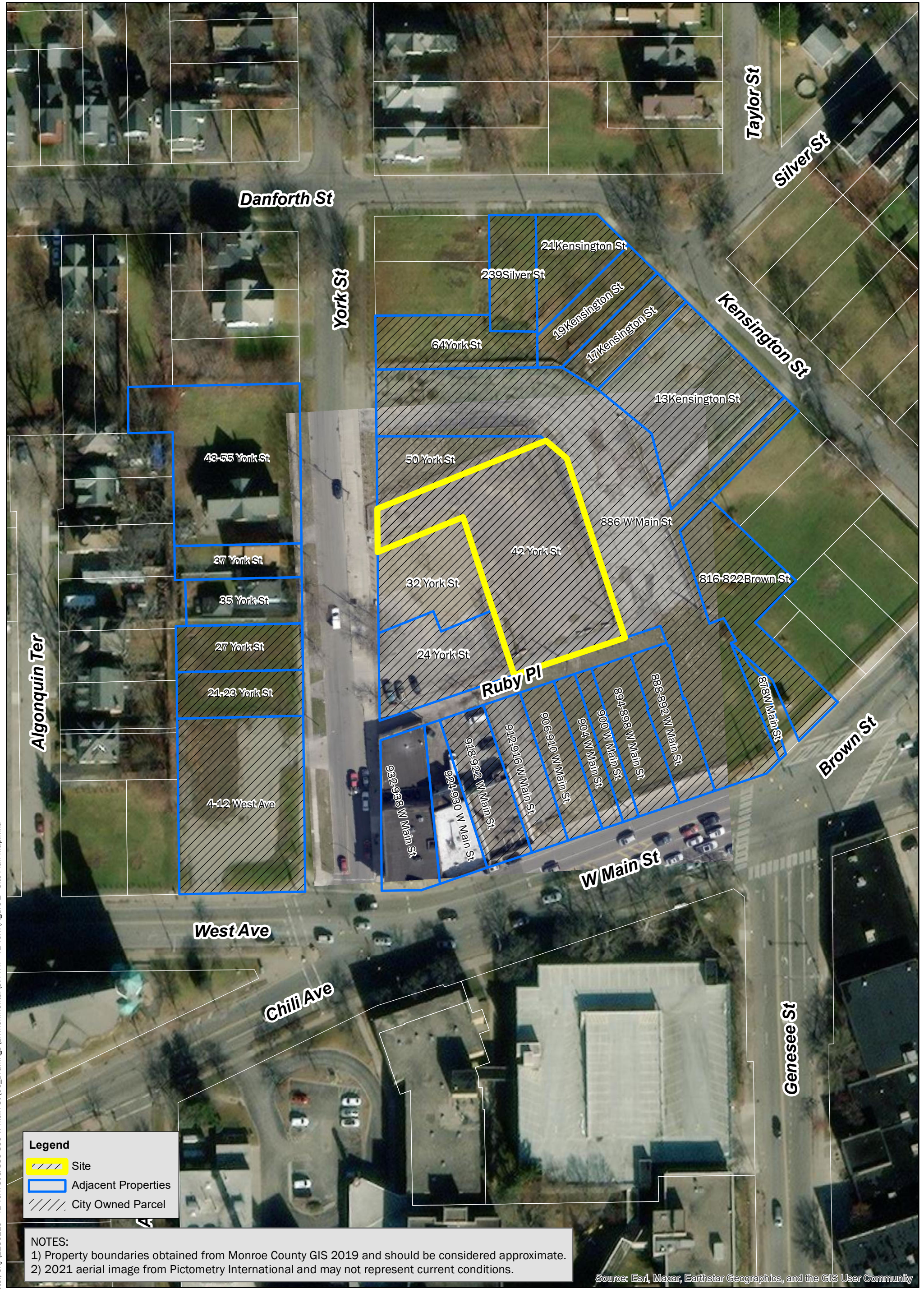
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS-User Community

PROJECT/DRAWING NUMBER:
 [2230119]
 [FIGURE 1]

PROJECT:
PHASE II ESA
42 YORK STREET
ROCHESTER, NEW YORK
 DRAWING NAME:
SITE LOCATION
MAP

CLIENT:
CITY OF ROCHESTER



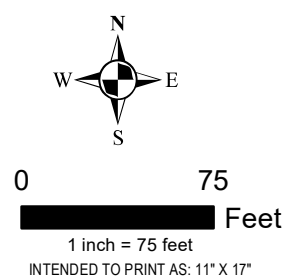


PROJECT/DRAWING NUMBER:
2230119
FIGURE 2

PROJECT:
**PHASE II ESA
 42 YORK STREET
 ROCHESTER, NEW YORK**

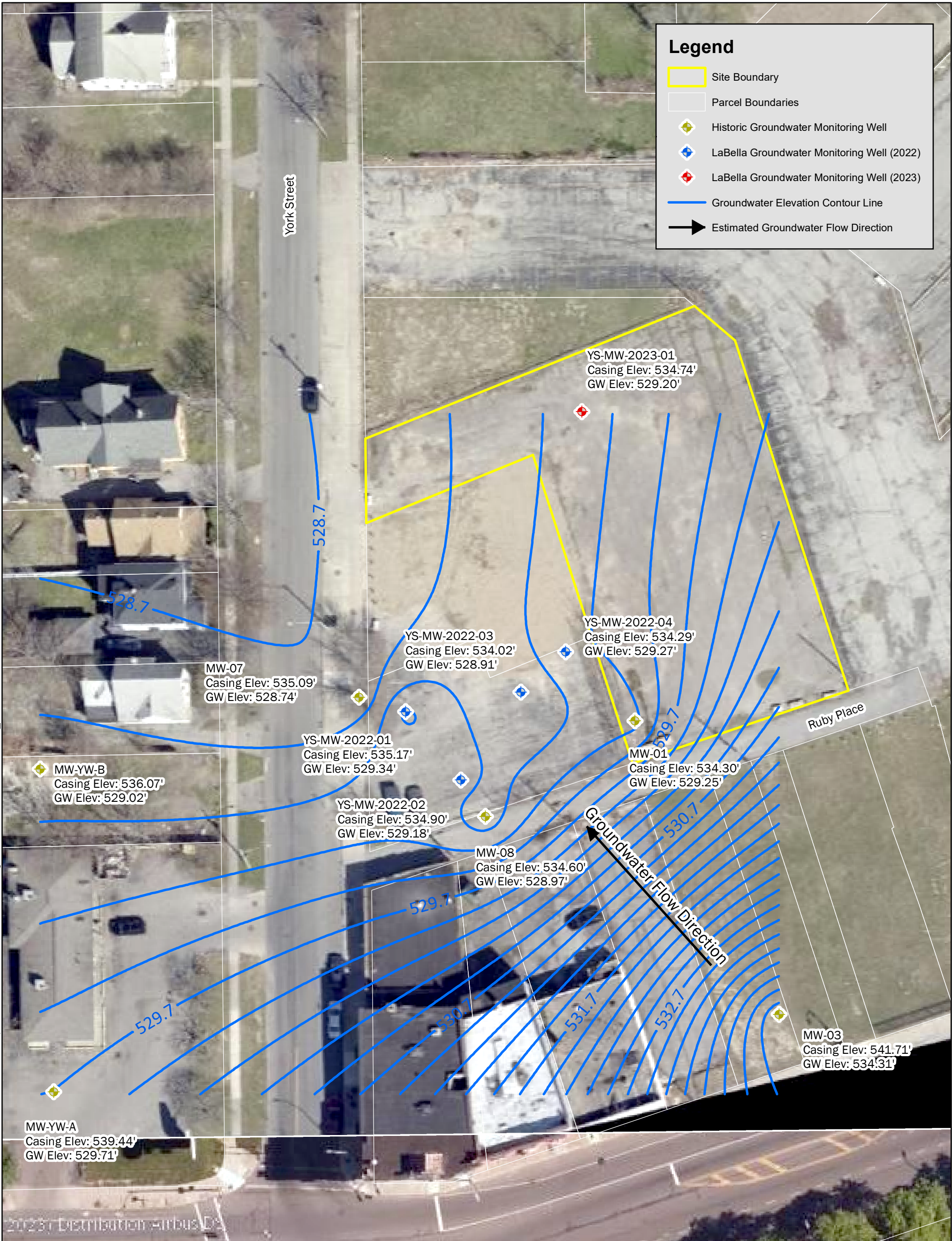
DRAWING NAME:
SITE PLAN MAP

CLIENT:
CITY OF ROCHESTER



Legend

- Site Boundary
- Parcel Boundaries
- ◆ Historic Groundwater Monitoring Well
- ◆ LaBella Groundwater Monitoring Well (2022)
- ◆ LaBella Groundwater Monitoring Well (2023)
- Groundwater Elevation Contour Line
- ➔ Estimated Groundwater Flow Direction



NOTES:

- 1) Property boundaries obtained from Monroe County GIS 2019 and considered approximate.
- 2) 2021 aerial image from Pictometry International and may not represent current conditions.
- 3) All groundwater monitoring well locations were surveyed by Costich Engineering, DPC, on August 3, 2023.
- 4) Groundwater contours were created in Surfer 23.2.176 via the Kriging method from static water levels measured on August 3, 2023. These contours are shown to illustrate general groundwater patterns in the context of this report. The contour lines are approximate and actual contours may vary from the locations shown. This data should be considered accurate to the degree implied by the method used. Monitoring wells utilized to generate contours are noted with elevation data.

PROJECT/DRAWING NUMBER:
2230119
FIGURE 4










PROJECT:
**PHASE II ESA
 42 YORK STREET
 ROCHESTER, NEW YORK**
 DRAWING NAME:
**GROUNDWATER
 ELEVATION MAP**

CLIENT:
CITY OF ROCHESTER

0 40
 Feet
 1 inch = 40 feet
 INTENDED TO PRINT AS: 11" X 17"

LaBella
 Powered by partnership.

Legend

-  Historic Test Pit Location
-  2023 Test Pit Location
-  Historic Soil Boring
-  Laboratory Testing Not Performed
-  Tested, But No Exceedance of UNR SCOs
-  Exceeds UNR SCOs
-  Exceeds R-Res and Commercial SCOs
-  Site Boundary
-  Parcel Boundaries

York Street

Ruby Place

TP-03
Sample Depth: 0.5 - 2.0 ft bgs
 Copper - 94.5
 Lead - 253
 Mercury - 0.484
 Zinc - 1050

TP-13
Sample Depth: 1.0 - 2.0 ft bgs
 Arsenic - 31.4
 Cadmium - 7.5
 Chromium - 101
 Lead - 267

TP-05
Sample Depth: 0.5 - 2.5 ft bgs
 Copper - 67.8
 Lead - 98.4
 Mercury - 0.59
 Zinc - 342

TP-06
Sample Depth: 0.4 - 3.0 ft bgs
 Cadmium - 2.8
 Copper - 241
 Nickel - 51.8
 Zinc - 635

TP-04
Sample Depth: 0.5 - 2.0 ft bgs
 Copper - 84.5
 Lead - 1080
 Mercury - 0.358
 Nickel - 31.5
 Zinc - 248

TB-04
Sample Depth: 2.5 ft bgs
 Lead - 161

TP-07
Sample Depth: 2.0 - 4.5 ft bgs
 Lead - 324


TP-14
Sample Depth: 3.5 ft bgs
 Benzo(a)pyrene - 1.4
 Benzo(b)fluoranthene - 1.7
 Chrysene - 1.1
 Indeno(1,2,3-cd)pyrene - 1.1
 Lead - 651
 Mercury - 2.5

NOTES:
 1) Property boundaries obtained from Monroe County GIS 2019 and considered approximate.
 2) 2021 aerial image from Pictometry International and may not represent current conditions.
 3) Historic investigation locations assessed by Day Environmental (Spring 2018).
 4) Underlined concentration exceed Unrestricted SCOs
 5) *Italicized concentration exceed Restricted Residential SCOs*
 6) **Red text indicates concentration exceed Commercial SCOs**
 8) All concentrations in parts per million (ppm).

PROJECT/DRAWING NUMBER:
 [2230119]
 [FIGURE 5]

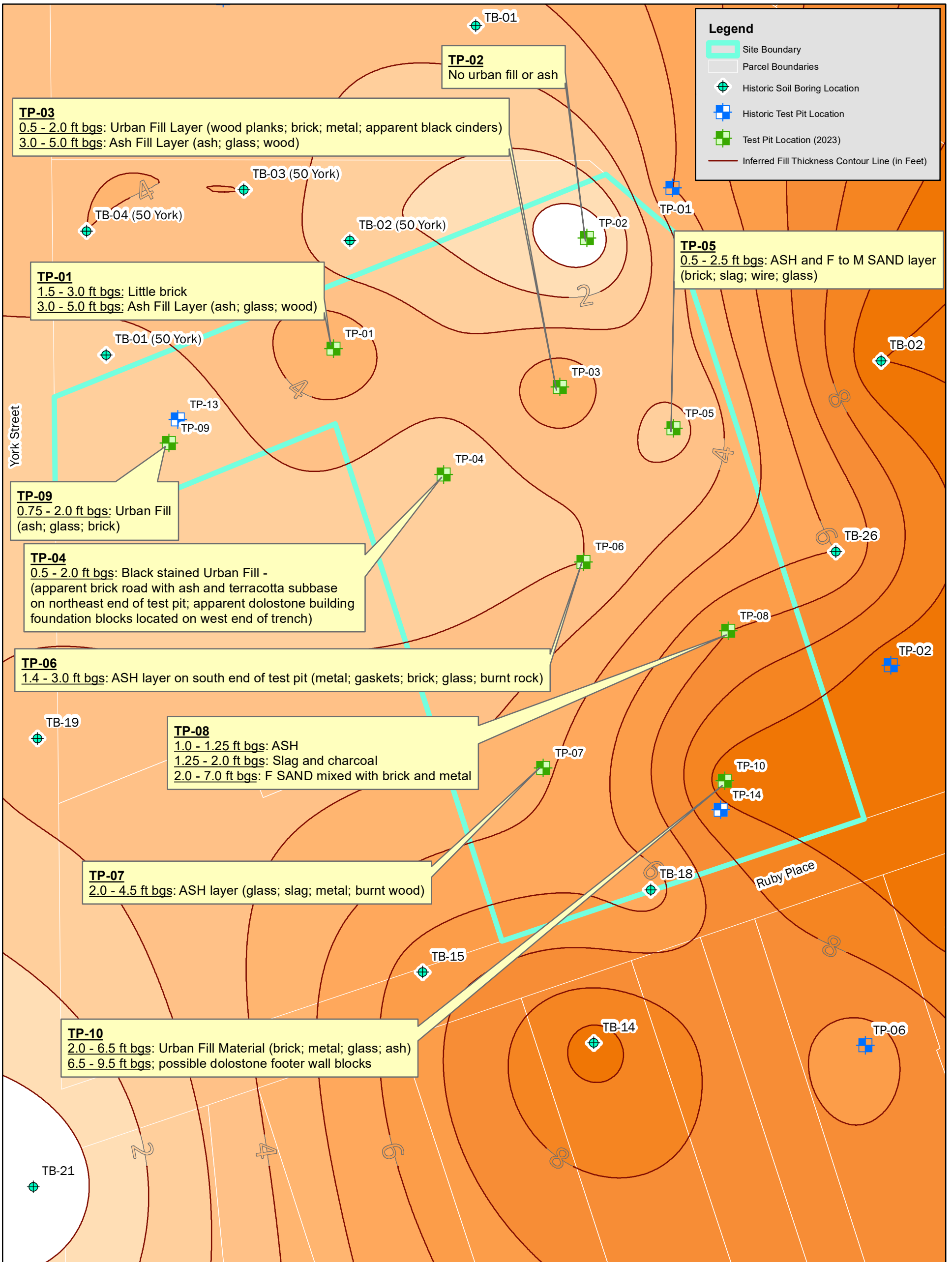
PROJECT:
**PHASE II ESA
 42 YORK STREET
 ROCHESTER, NEW YORK**
 DRAWING NAME:
**SUMMARY OF
 SOIL CONDITIONS**

CLIENT:
CITY OF ROCHESTER

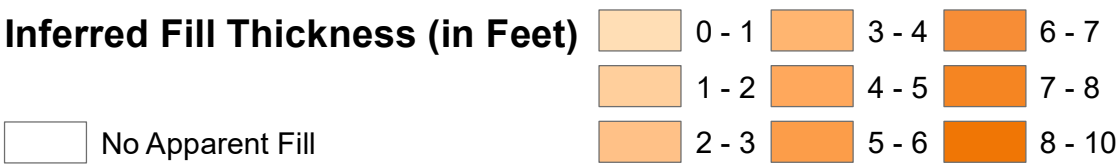


0 25
 Feet
 1 inch = 25 feet
 INTENDED TO PRINT AS: 11" X 17"





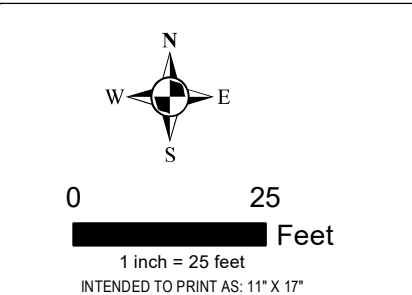
NOTES:
 1) Property boundaries obtained from Monroe County GIS 2019 and considered approximate.
 2) Fill depth contours were created in Surfer 23.2.176 via the Kriging method from depths recorded at the bottom of the urban fill layer measured in the test pits and surrounding borings. These contours are shown to illustrate general urban fill depth patterns in the context of this report. The contour lines are approximate and actual contours may vary from the locations shown. This data should be considered accurate to the degree implied by the method used.
 3) Refer to soil boring logs for additional information.



PROJECT/DRAWING NUMBER:
 [2230119]
 [FIGURE 6]

PROJECT:
**PHASE II ESA
 42 YORK STREET
 ROCHESTER, NEW YORK**
 DRAWING NAME:
**FILL LOCATION
 AND DEPTHS**

CLIENT:
CITY OF ROCHESTER





TABLES

Table 1
Phase II Environmental Site Assessment
42 York Street, Rochester, New York 14614
Sample Log
LaBella Project # 2230119



Sample Location	Sample Depth (ft)	Sample Purpose	Date Sampled	PID Reading (ppm)	Staining / Odors	Material Description / Sample Observation	Lab Report Number	Laboratory Analysis																
								TCL & CP-51 VOCs	TCL & CP-51 SVOCs	TAL Metals	TCLP VOCs	TCLP SVOCs	TCLP Metals	PCBs	Reactivity	Corrosivity (pH)	Ignitability							
Test Pit Study																								
TP-02	3-4 ft	Investigation	7/11/2023	0	No	Light tan-brown F SAND ; some silt ; little SR gravel ; massive ; moist	L2339907	X	X	X														
TP-03	0.5-2 ft	Investigation	7/11/2023	0	No	Dark brown F SAND ; some silt ; little SR gravel ; little urban fill (wood planks ; brick chunks ; metal chunks and wire ; black apparent cinders) ; moist		X	X	X														
TP-04	0.5-2 ft	Investigation	7/12/2023	0	Yes	Black stained URBAN FILL MATERIAL (apparent brick road with ash and terracotta subbase on northeast end of test pit beneath asphalt subbase gravel; apparent dolostone building foundation blocks located on west end of trench)		X	X	X														
TP-05	0.5-2.5 ft	Investigation	7/12/2023	0	No	URBAN FILL - ASH intermixed with dark brown F to M SAND, AND SILT ; little brick ; little metal slag and wire ; little SA to SR gravel ; trace glass ; moist		X	X	X														
TP-06	0.4-3 ft	Investigation	7/12/2023	0	No	ASH layer located on south end consisting of ash, metal, engine gaskets, slag (copper, unknown material, and bluish metal), glass, burnt rock, and brick chunks		X	X	X														
TP-07	2.0-4.5 ft	Investigation	7/12/2023	0	No	ASH FILL including glass, slag, metal, burnt wood debris		X	X	X														
TP-02 (Blind Dup)	3-4 ft	Investigation	7/11/2023	0	No	Light tan-brown F SAND ; some silt ; little SR gravel ; massive ; moist		X	X	X														
TP-01/WC-01	0.25-5 ft	Waste Characterization	7/11/2023	0	No	Brown reworked F to M SAND ; little brick ; little cobble ; little silt ; moist to wet ASH FILL LAYER - ash ; glass ; wood ; moist	L2339895				X	X	X	X	X	X	X	X	X					
TP-09/WC-02	0.75-2 ft	Waste Characterization	7/11/2023	0	No	URBAN FILL MATERIAL (ASH, glass, F to M brick chunks) ; some C sand ; moist to dry Brown F SAND ; some silt ; little SA gravel ; trace C sand ; moist ; Not native					X	X	X	X	X	X	X	X	X					
TP-08/WC-03	1-6 ft	Waste Characterization	7/12/2023	0	No	ASH AND F brown SAND ; some silt ; dry SAND ; some silt ; some metal slag and charcoal ; dry					X	X	X	X	X	X	X	X	X					
TP-10/WC-04	3.5-6.5 ft	Waste Characterization	7/12/2023	0	No	Fill material - Dark brown F to M SAND ; little silt ; little fill material (brick chunks, metal, glass, and ash) ; moist to dry reworked brown F SAND ; some silt ; some dolostone footer wall blocks ; little SR gravel ; moist					X	X	X	X	X	X	X	X	X					
TP-02/WC-05	4-5 ft	Waste Characterization	7/11/2023	0	No	Brown F to M SAND ; little C SA sand ; little SR gravel ; little cobble ; trace silt ; moist to wet ; massive					X	X	X	X	X	X	X	X	X					
TP-06/WC-08	0.4-3 ft	Waste Characterization	7/12/2023	0	No	Dark and light brown F to M possible bedding SAND ; little silt ; little SR gravel ; moist ASH layer located on south end consisting of ash, metal, engine gaskets, slag (copper, unknown material, and bluish metal), glass, burnt rock, and brick chunks					X	X	X	X	X	X	X	X	X					
Groundwater Sampling Event																								
YS-MW-2023-01	7 ft	GW Sample	7/26/2023	-	-	Orange Discoloration	L2343170	X	X	X														
MW-01-072623	7 ft	GW Sample	7/26/2023	-	-	Clear water		X	X	X														
YS-MW-BD-072623	7 ft	GW Sample	7/26/2023	-	-	Parent Well: YS-MW-2023-01		X	X	X														

- Notes
1. TCL & CP-51 VOCs analyzed using USEPA Method 8260D
 2. TCL & CP-51 SVOCs analyzed using USEPA Method 8270E
 3. TAL Metals analyzed using USEPA Method 6010D/7471B
 4. Toxicity Characteristics Leachate Procedure (TCLP) VOCs analyzed using USEPA Method 8260D/1311
 5. TCLP SVOCs analyzed using USEPA Method 8270E/1311
 6. TCLP Metals analyzed using USEPA Method 6010D/7470A/1311
 7. Polychlorinate Biphenyls (PCBs) analyzed using USEPA Method 8082A
 8. Reactive Cyanide analyzed using USEPA Method 9010C
 9. Reactive Sulfide analyzed using Chp. 7 SW-846
 10. Ignitability analyzed using USEPA Method 1030
 11. Corrosivity (pH) analyzed using USEPA Method 9045D

Table 2
Phase II Environmental Site Assessment
42 York Street, Rochester New York 14614
Groundwater Elevation Data for August 3, 2023
LaBella Project # 2230119



Well ID	Parcel Location	Ground Elevation (ft)	Elevation of PVC Well Casing (ft)	SWL ³	Groundwater Elevation (ft)	Depth of Well ³
YS-MW-2023-01	42 York St	535.09	534.74	5.54	529.20	10.60
MW-01	42 York St	534.70	534.30	5.05	529.25	10.39
YS-MW-2022-01	24 York St	535.46	535.17	5.83	529.34	9.10
YS-MW-2022-02	24 York St	535.21	534.90	5.72	529.18	9.13
YS-MW-2022-03	24 York St	534.45	534.02	5.11	528.91	9.18
YS-MW-2022-04	24 York St	534.86	534.29	5.02	529.27	10.60
MW-03	906-910 West Main St	542.07	541.71	7.40	534.31	13.94
MW-07	ROW 24 York St	535.71	535.09	6.35	528.74	10.52
MW-08	Ruby Pl	534.82	534.60	5.63	528.97	15.26
MWYW-A	4-12 West Ave	539.69	539.44	9.73	529.71	16.02
MWYW-B	4-12 West Ave	536.28	536.07	7.05	529.02	28.40

Notes

1. Survey completed by Costich Engineering, DPC, on August 3, 2023
2. Datum used during survey was: NAVD88
3. Static groundwater levels were collected from marked location at top of casing. In the absence of any mark, data collected from highest point of casing.

Table 3A (1 of 2)
Phase II Environmental Site Assessment
42 York Street, Rochester, New York 14614
Summary of Volatile Organic Compounds in Soil
LaBella Project # 2230119



Sample Location	Sample ID	NYCRR Part 375 Unrestricted Use SCOs	NYCRR Part 375 Restricted Residential Use SCOs	NYCRR Part 375 Commercial Use SCOs	TP-02		TP-03	TP-04
					TP-02-3-4FT	BD-01-3-4 FT	TP-03-0.5-2 FT	TP-04-0.5-2.5 FT
Laboratory ID					L2339907-02	L2339907-09	L2339907-03	L2339907-04
Sample Depth (ft bgs)					3-4	3-4	0.5-2	0.5-2.5
Sample Date					7/11/2023	7/11/2023	7/11/2023	7/12/2023
VOCs								
1,1,1-Trichloroethane	0.68	100	500	<0.00016	<0.00014	<0.00014	<0.00018	<0.00026
1,1,2,2-Tetrachloroethane	NL	NL	NL	<0.00016	<0.00014	<0.00014	<0.00017	<0.00026
1,1,2-Trichloroethane	NL	NL	NL	<0.00025	<0.00022	<0.00022	<0.00028	<0.00042
1,1-Dichloroethane	0.27	26	240	<0.00014	<0.00012	<0.00012	<0.00015	<0.00023
1,1-Dichloroethene	0.33	100	500	<0.00023	<0.00023	<0.00023	<0.00025	<0.00038
1,2,4-Trichlorobenzene	NL	NL	NL	<0.00026	<0.00022	<0.00022	<0.00028	<0.00043
1,2,4-Trimethylbenzene	3.6	52	190	<0.00032	<0.00028	<0.00028	<0.00035	<0.00053
1,2-Dibromo-3-chloropropane	NL	NL	NL	<0.00095 UJ	<0.00082 UJ	<0.00082 UJ	<0.001 UJ	<0.0016 UJ
1,2-Dibromoethane	NL	NL	NL	<0.00026	<0.00023	<0.00023	<0.00029	<0.00044
1,2-Dichlorobenzene	1.1	100	500	<0.00014	<0.00012	<0.00012	<0.00015	<0.00023
1,2-Dichloroethane	0.02	3.1	30	<0.00024	<0.00021	<0.00021	<0.00027	<0.00041
1,2-Dichloropropane	NL	NL	NL	<0.00012	<0.0001	<0.0001	<0.00013	<0.0002
1,3,5-Trimethylbenzene	8.4	52	190	<0.00018	<0.00016	<0.00016	<0.0002	<0.00031
1,3-Dichlorobenzene	2.4	49	280	<0.00014	<0.00012	<0.00012	<0.00016	<0.00023
1,4-Dichlorobenzene	1.8	13	130	<0.00016	<0.00014	<0.00014	<0.00018	<0.00027
2-Butanone	0.12	100	500	<0.0021 UJ	<0.0018 UJ	<0.0018 UJ	<0.0023 UJ	<0.0035 UJ
2-Hexanone	NL	NL	NL	<0.0011	<0.00097	<0.00097	<0.0012	<0.0019
4-Methyl-2-pentanone	NL	NL	NL	<0.0012 UJ	<0.001 UJ	<0.001 UJ	<0.0013 UJ	<0.002 UJ
Acetone	0.05	100	500	<0.0046	<0.004	<0.004	<0.005	<0.0076
Benzene	0.06	4.8	44	<0.00016	<0.00014	<0.00014	<0.00017	<0.00026
Bromodichloromethane	NL	NL	NL	<0.0001	<0.00009	<0.00009	<0.00011	<0.00017
Bromoform	NL	NL	NL	<0.00023	<0.0002	<0.0002	<0.00026	<0.00039
Bromomethane	NL	NL	NL	<0.00055 UJ	<0.00048 UJ	<0.00048 UJ	<0.00061 UJ	<0.00092 UJ
Carbon disulfide	NL	NL	NL	<0.0043	<0.0038	<0.0038	<0.0048	<0.0072
Carbon tetrachloride	0.76	2.4	22	<0.00022	<0.00019	<0.00019	<0.00024	<0.00036
Chlorobenzene	1.1	100	500	<0.00012	<0.0001	<0.0001	<0.00013	<0.0002
Chloroethane	NL	NL	NL	<0.00043	<0.00037	<0.00037	<0.00047	<0.00072
Chloroform	0.37	49	350	<0.00013	<0.00012	<0.00012	<0.00015	<0.00022
Chloromethane	NL	NL	NL	<0.00089 UJ	<0.00077 UJ	<0.00077 UJ	<0.00098 UJ	<0.0015 UJ
cis-1,2-Dichloroethene	0.25	100	500	<0.00017	<0.00014	<0.00014	<0.00018	<0.00028
cis-1,3-Dichloropropene	NL	NL	NL	<0.00015	<0.00013	<0.00013	<0.00016	<0.00025
Cyclohexane	NL	NL	NL	<0.00052	<0.00045	<0.00045	<0.00057	<0.00086
Dibromochloromethane	NL	NL	NL	<0.00013	<0.00012	<0.00012	<0.00015	<0.00022
Dichlorodifluoromethane	NL	NL	NL	<0.00087 UJ	<0.00075 UJ	<0.00075 UJ	<0.00096 UJ	<0.0014 UJ
Ethylbenzene	1	41	390	<0.00013	<0.00012	<0.00012	<0.00015	<0.00022
Freon-113	NL	NL	NL	<0.00066	<0.00057	<0.00057	<0.00073	<0.0011
Isopropylbenzene	NL	NL	NL	<0.0001	<0.00009	<0.00009	<0.00011	<0.00017
Methyl Acetate	NL	NL	NL	<0.0009	<0.00078	<0.00078	<0.001	<0.0015
Methyl cyclohexane	NL	NL	NL	<0.00057	<0.0005	<0.0005	<0.00063	<0.00096
Methyl tert butyl ether	0.93	100	500	<0.00019	<0.00016	<0.00016	<0.00021	<0.00032
Methylene chloride	0.05	100	500	<0.0022	<0.0019	<0.0019	<0.0024	<0.0036
Naphthalene	12	100	500	<0.00062	<0.00054	<0.00054	<0.00068	<0.001
n-Butylbenzene	12	100	500	<0.00016	<0.00014	<0.00014	<0.00018	<0.00026
n-Propylbenzene	3.9	100	500	<0.00016	<0.00014	<0.00014	<0.00018	<0.00027
o-Xylene	NL	NL	NL	<0.00028	<0.00024	<0.00024	<0.0003	<0.00046
p/m-Xylene	NL	NL	NL	<0.00053	<0.00046	<0.00046	<0.00059	<0.00089
p-Isopropyltoluene	NL	NL	NL	<0.0001	<0.00009	<0.00009	<0.00011	<0.00017
sec-Butylbenzene	11	100	500	<0.00014	<0.00012	<0.00012	<0.00015	<0.00023
Styrene	NL	NL	NL	<0.00019	<0.00016	<0.00016	<0.0002	<0.00031
tert-Butylbenzene	5.9	100	500	<0.00011	<0.0001	<0.0001	<0.00012	<0.00019
Tetrachloroethene	1.3	19	150	<0.00019	<0.00016	<0.00016	<0.0002	<0.00031
Toluene	0.7	100	500	<0.00052	<0.00045	<0.00045	<0.00057	<0.00086
trans-1,2-Dichloroethene	0.19	100	500	<0.00013	<0.00011	<0.00011	<0.00014	<0.00022
trans-1,3-Dichloropropene	NL	NL	NL	<0.00026	<0.00022	<0.00022	<0.00029	<0.00043
Trichloroethene	0.47	21	200	<0.00013	<0.00011	<0.00011	<0.00014	<0.00022
Trichlorofluoromethane	NL	NL	NL	<0.00066	<0.00057	<0.00057	<0.00073	<0.0011
Vinyl chloride	0.02	0.9	13	<0.00032	<0.00028	<0.00028	<0.00035	<0.00053
Total VOCs				-	-	-	-	-
Total TIC Compounds	NL	NL	NL	0.00496 J	0.0033 J	0.0276 J		

NOTES:

All values displayed in milligrams per kilograms (mg/kg), equal to parts per million (ppm)
* < - Indicates compound was not detected above the indicated laboratory method detection limit (MDL).

Bold font indicates the concentration exceeds the MDL.

VOCs analyzed by USEPA Method 8260D

NL indicates Not Listed

J indicates an estimated value (above the MDL but below the laboratory method reportable limit (RL))

TICs - Tentatively Identified Compounds

Data has been validated

Blue font represents a change made in the DUSR

UJ indicates nondetect with estimated quantitation limits

Table 3A (2 of 2)
Phase II Environmental Site Assessment
42 York Street, Rochester, New York 14614
Summary of Volatile Organic Compounds in Soil
LaBella Project # 2230119



Sample Location	NYCRR Part 375 Unrestricted Use SCOs	NYCRR Part 375 Restricted Residential Use SCOs	NYCRR Part 375 Commercial Use SCOs	TP-05	TP-06	TP-07
Sample ID				TP-05-0.5-2.5 FT	TP-06-0.4-3 FT	TP-07-2.0-4.5 FT
Laboratory ID				L2339907-05	L2339907-06	L2339907-07
Sample Depth (ft bgs)				0.5-2.5	0.4-3	2-4.5
Sample Date				7/12/2023	7/12/2023	7/11/2023
VOCs						
1,1,1-Trichloroethane	0.68	100	500	<0.0002	<0.00023	<0.00025
1,1,1,2-Tetrachloroethane	NL	NL	NL	<0.0002	<0.00023	<0.00025
1,1,2-Trichloroethane	NL	NL	NL	<0.00032	<0.00036	<0.0004
1,1-Dichloroethane	0.27	26	240	<0.00017	<0.0002	<0.00022
1,1-Dichloroethene	0.33	100	500	<0.00028	<0.00032	<0.00035
1,2,4-Trichlorobenzene	NL	NL	NL	<0.00033	<0.00037	<0.0004
1,2,4-Trimethylbenzene	3.6	52	190	<0.0004	<0.00045	<0.0005
1,2-Dibromo-3-chloropropane	NL	NL	NL	<0.0012 UJ	<0.0014 UJ	<0.0015 UJ
1,2-Dibromoethane	NL	NL	NL	<0.00033	<0.00038	<0.00042
1,2-Dichlorobenzene	1.1	100	500	<0.00017	<0.0002	<0.00021
1,2-Dichloroethane	0.02	3.1	30	<0.00031	<0.00035	<0.00038
1,2-Dichloropropane	NL	NL	NL	<0.00015	<0.00017	<0.00019
1,3,5-Trimethylbenzene	8.4	52	190	<0.00023	<0.00026	<0.00029
1,3-Dichlorobenzene	2.4	49	280	<0.00018	<0.0002	<0.00022
1,4-Dichlorobenzene	1.8	13	130	<0.0002	<0.00023	<0.00025
2-Butanone	0.12	100	500	<0.0027 UJ	<0.003 UJ	<0.0033 UJ
2-Hexanone	NL	NL	NL	<0.0014	<0.0016	<0.0018
4-Methyl-2-pentanone	NL	NL	NL	<0.0015 UJ	<0.0017 UJ	<0.0019 UJ
Acetone	0.05	100	500	<0.0058	<0.0066	<0.0072
Benzene	0.06	4.8	44	<0.0002	<0.00023	<0.00025
Bromodichloromethane	NL	NL	NL	<0.00013	<0.00015	<0.00016
Bromoform	NL	NL	NL	<0.00029	<0.00034	<0.00037
Bromomethane	NL	NL	NL	<0.0007 UJ	<0.00079 UJ	<0.00086 UJ
Carbon disulfide	NL	NL	NL	<0.0054	<0.0062	<0.0068
Carbon tetrachloride	0.76	2.4	22	<0.00028	<0.00031	<0.00034
Chlorobenzene	1.1	100	500	<0.00015	<0.00017	<0.00019
Chloroethane	NL	NL	NL	<0.00054	<0.00062	<0.00067
Chloroform	0.37	49	350	<0.00017	<0.00019	<0.00021
Chloromethane	NL	NL	NL	<0.0011 UJ	<0.0013 UJ	<0.0014 UJ
cis-1,2-Dichloroethene	0.25	100	500	<0.00021	<0.00024	<0.00026
cis-1,3-Dichloropropene	NL	NL	NL	<0.00019	<0.00022	<0.00024
Cyclohexane	NL	NL	NL	<0.00065	<0.00074	<0.00081
Dibromochloromethane	NL	NL	NL	<0.00017	<0.00019	<0.00021
Dichlorodifluoromethane	NL	NL	NL	<0.0011 UJ	<0.0012 UJ	<0.0014 UJ
Ethylbenzene	1	41	390	<0.00017	<0.00019	<0.00021
Freon-113	NL	NL	NL	<0.00083	<0.00094	<0.001
Isopropylbenzene	NL	NL	NL	<0.00013	<0.00015	<0.00016
Methyl Acetate	NL	NL	NL	<0.0011	<0.0013	<0.0014
Methyl cyclohexane	NL	NL	NL	<0.00072	<0.00082	<0.0009
Methyl tert butyl ether	0.93	100	500	<0.00024	<0.00027	<0.0003
Methylene chloride	0.05	100	500	<0.0027	<0.0031	<0.0034
Naphthalene	12	100	500	<0.00078	<0.00088	<0.00097
n-Butylbenzene	12	100	500	<0.0002	<0.00023	<0.00025
n-Propylbenzene	3.9	100	500	<0.0002	<0.00023	<0.00025
o-Xylene	NL	NL	NL	<0.00035	<0.0004	<0.00043
p/m-Xylene	NL	NL	NL	<0.00067	<0.00076	<0.00083
p-Isopropyltoluene	NL	NL	NL	<0.00013	<0.00015	<0.00016
sec-Butylbenzene	11	100	500	<0.00018	<0.0002	<0.00022
Styrene	NL	NL	NL	<0.00023	<0.00027	<0.00029
tert-Butylbenzene	5.9	100	500	<0.00014	<0.00016	<0.00018
Tetrachloroethene	1.3	19	150	<0.00023	<0.00027	<0.00029
Toluene	0.7	100	500	<0.00065	<0.00074	<0.00081
trans-1,2-Dichloroethene	0.19	100	500	<0.00016	<0.00019	<0.0002
trans-1,3-Dichloropropene	NL	NL	NL	<0.00033	<0.00037	<0.00041
Trichloroethene	0.47	21	200	<0.00016	<0.00019	<0.0002
Trichlorofluoromethane	NL	NL	NL	<0.00083	<0.00095	<0.001
Vinyl chloride	0.02	0.9	13	<0.0004	<0.00046	<0.0005
Total VOCs				-	-	-
Total TIC Compounds	NL	NL	NL	0.00499 J	0.0064 J	-

NOTES:

- All values displayed in milligrams per kilograms (mg/kg), equal to parts per million (ppm)
- *< - Indicates compound was not detected above the indicated laboratory method detection limit (MDL).
- Bold font indicates the concentration exceeds the MDL.**
- VOCs analyzed by USEPA Method 8260D
- NL indicates Not Listed
- J indicates an estimated value (above the MDL but below the laboratory method reportable limit (RL))
- TICs - Tentatively Identified Compounds
- Data has been validated
- Blue font represents a change made in the DUSR
- UJ indicates nondetect with estimated quantitation limits

Table 3B (1 of 1)
Phase II Environmental Site Assessment
42 York Street, Rochester, New York 14614
Summary of Semi-Volatile Organic Compounds in Soil
LaBella Project # 2230119



Sample Location Sample ID Laboratory ID Sample Depth (ft bgs) Sample Date	NYCRR Part 375 Unrestricted Use SCOs	NYCRR Part 375 Restricted Residential Use SCOs	NYCRR Part 375 Commercial Use SCOs	TP-02		TP-03	TP-04	TP-05	TP-06	TP-07
				TP-02-3-4FT	BD-01-3-4 FT	TP-03-0.5-2 FT	TP-04-0.5-2.5 FT	TP-05-0.5-2.5 FT	TP-06-0.4-3 FT	TP-07-2.0-4.5 FT
				L2339907-02	L2339907-09	L2339907-03	L2339907-04	L2339907-05	L2339907-06	L2339907-07
				3-4	3-4	0.5-2	0.5-2.5	0.5-2.5	0.4-3	2-4.5
				7/11/2023	7/11/2023	7/11/2023	7/12/2023	7/12/2023	7/12/2023	7/11/2023
SVOCs										
1,2,4,5-Tetrachlorobenzene	NL	NL	NL	<0.019	<0.019	<0.021	<0.021	<0.021	<0.083	<0.06
2,3,4,6-Tetrachlorophenol	NL	NL	NL	<0.037	<0.037	<0.04	<0.041	<0.041	<0.16	<0.12
2,4,5-Trichlorophenol	NL	NL	NL	<0.035	<0.035	<0.038	<0.039	<0.039	<0.15	<0.11
2,4,6-Trichlorophenol	NL	NL	NL	<0.035	<0.035	<0.038	<0.039	<0.038	<0.15	<0.11
2,4-Dichlorophenol	NL	NL	NL	<0.03	<0.029	<0.032	<0.033	<0.032	<0.13	<0.092
2,4-Dimethylphenol	NL	NL	NL	<0.061	<0.06	<0.066	<0.068	<0.067	<0.26	<0.19
2,4-Dinitrophenol	NL	NL	NL	<0.086	<0.085	<0.093	<0.096	<0.094	<0.37	<0.27
2,4-Dinitrotoluene	NL	NL	NL	<0.037	<0.037	<0.04	<0.041	<0.04	<0.16	<0.11
2,6-Dinitrotoluene	NL	NL	NL	<0.032	<0.031	<0.034	<0.035	<0.035	<0.14	<0.098
2-Chloronaphthalene	NL	NL	NL	<0.018	<0.018	<0.02	<0.02	<0.02	<0.079	<0.057
2-Chlorophenol	NL	NL	NL	<0.022	<0.022	<0.024	<0.024	<0.024	<0.094	<0.068
2-Methylnaphthalene	NL	NL	NL	<0.022	<0.022	<0.024	<0.025	0.043	<0.096	<0.069
2-Methylphenol	0.33	100	500	<0.028	<0.028	<0.031	<0.032	<0.031	<0.12	<0.089
2-Nitroaniline	NL	NL	NL	<0.036	<0.035	<0.038	<0.04	<0.039	<0.15	<0.11
2-Nitrophenol	NL	NL	NL	<0.069	<0.069	<0.075	<0.077	<0.076	<0.3	<0.22
3,3'-Dichlorobenzidine	NL	NL	NL	<0.049	<0.049	<0.053	<0.055	<0.054	<0.21	<0.15
3-Methylphenol/4-Methylphenol	0.33	100	500	<0.029	<0.029	<0.031	<0.032	<0.032	<0.12	<0.09
3-Nitroaniline	NL	NL	NL	<0.035	<0.034	<0.038	<0.039	<0.038	<0.15	<0.11
4,6-Dinitro-o-cresol	NL	NL	NL	<0.088	<0.088	<0.096	<0.098	<0.097	<0.38	<0.27
4-Bromophenyl phenyl ether	NL	NL	NL	<0.028	<0.028	<0.03	<0.031	<0.031	<0.12	<0.087
4-Chloroaniline	NL	NL	NL	<0.034	<0.033	<0.036	<0.037	<0.037	<0.14	<0.1
4-Chlorophenyl phenyl ether	NL	NL	NL	<0.02	<0.02	<0.022	<0.022	<0.022	<0.085	<0.061
4-Nitroaniline	NL	NL	NL	<0.076	<0.076	<0.082	<0.085	<0.084	<0.33	<0.24
4-Nitrophenol	NL	NL	NL	<0.075	<0.075	<0.081	<0.084	<0.083	<0.32	<0.23
Acenaphthene	20	100	500	<0.019	<0.019	<0.021	<0.021	<0.021	<0.082	<0.059
Acenaphthylene	100	100	500	<0.028	<0.028	<0.031	<0.032	<0.031	<0.12	<0.088
Acetophenone	NL	NL	NL	<0.023	<0.023	<0.025	<0.025	<0.025	<0.098	<0.071
Anthracene	100	100	500	<0.036	<0.036	<0.039	<0.04	0.09	<0.15	<0.11
Atrazine	NL	NL	NL	<0.064	<0.064	<0.07	<0.072	<0.071	<0.28	<0.2
Benzaldehyde	NL	NL	NL	<0.05	<0.049	<0.054	<0.055	<0.055	<0.21	<0.15
Benzo(a)anthracene	1	1	5.6	<0.021	<0.021	0.16	<0.023	0.52	<0.089	<0.064
Benzo(a)pyrene	1	1	1	<0.045	<0.045	0.24	<0.05	0.59	<0.19	<0.14
Benzo(b)fluoranthene	1	1	5.6	<0.031	<0.031	0.31	<0.034	0.67	<0.13	<0.096
Benzo(g,h)perylene	100	100	500	<0.022	<0.022	0.16	<0.024	0.36	<0.093	<0.067
Benzo(k)fluoranthene	0.8	3.9	56	<0.029	<0.029	0.095	<0.033	0.21	<0.13	<0.092
Biphenyl	NL	NL	NL	<0.024	<0.024	<0.026	<0.027	<0.026	<0.1	<0.074
Bis(2-chloroethoxy)methane	NL	NL	NL	<0.018	<0.018	<0.02	<0.02	<0.02	<0.079	<0.057
Bis(2-chloroethoxy)ether	NL	NL	NL	<0.025	<0.025	<0.027	<0.028	<0.027	<0.11	<0.078
Bis(2-chloroisopropyl)ether	NL	NL	NL	<0.031	<0.031	<0.034	<0.035	<0.034	<0.14	<0.098
Bis(2-ethylhexyl)phthalate	NL	NL	NL	<0.064	<0.063	<0.069	<0.071	<0.07	<0.27	<0.2
Butyl benzy phthalate	NL	NL	NL	<0.046	<0.046	<0.05	<0.052	<0.051	<0.2	<0.14
Caprolactam	NL	NL	NL	<0.056	<0.056	<0.06	<0.062	<0.062	<0.24	<0.17
Carbazole	NL	NL	NL	<0.018	<0.018	<0.019	<0.02	<0.02	<0.077	<0.056
Chrysene	1	3.9	56	<0.019	<0.019	0.18	<0.021	0.48	<0.082	<0.06
Dibenzo(a,h)anthracene	0.33	0.33	0.56	<0.021	<0.021	0.046	<0.024	0.073	<0.092	<0.066
Dibenzofuran	7	59	350	<0.017	<0.017	<0.019	<0.019	0.03	<0.075	<0.054
Diethyl phthalate	NL	NL	NL	<0.017	<0.017	<0.018	<0.019	<0.019	<0.073	<0.053
Dimethyl phthalate	NL	NL	NL	<0.039	<0.038	<0.042	<0.043	<0.042	<0.17	<0.12
Di-n-butylphthalate	NL	NL	NL	<0.035	<0.035	<0.038	<0.039	<0.038	<0.15	<0.11
Di-n-octylphthalate	NL	NL	NL	<0.063	<0.062	<0.068	<0.07	<0.069	<0.27	<0.19
Fluoranthene	100	100	500	<0.021	<0.021	0.19	<0.024	1	<0.091	<0.066
Fluorene	30	100	500	<0.018	<0.018	<0.019	<0.02	<0.02	<0.077	<0.056
Hexachlorobenzene	0.33	1.2	6	<0.021	<0.02	<0.022	<0.023	<0.023	<0.089	<0.064
Hexachlorobutadiene	NL	NL	NL	<0.027	<0.027	<0.029	<0.03	<0.03	<0.12	<0.084
Hexachlorocyclopentadiene	NL	NL	NL	<0.17	<0.16	<0.18	<0.18	<0.18	<0.72	<0.52
Hexachloroethane	NL	NL	NL	<0.03	<0.03	<0.032	<0.033	<0.033	<0.13	<0.093
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	<0.026	<0.026	0.19	<0.029	0.44	<0.11	<0.08
Isophorone	NL	NL	NL	<0.024	<0.024	<0.026	<0.027	<0.026	<0.1	<0.074
Naphthalene	12	100	500	<0.022	<0.022	0.027	<0.025	0.059	<0.097	<0.07
NDPA/DPA	NL	NL	NL	<0.021	<0.021	<0.023	<0.023	<0.023	<0.09	<0.065
Nitrobenzene	NL	NL	NL	<0.027	<0.027	<0.029	<0.03	<0.03	<0.12	<0.085
n-Nitrosodi-n-propylamine	NL	NL	NL	<0.028	<0.028	<0.031	<0.032	<0.031	<0.12	<0.088
p-Chloro-m-cresol	NL	NL	NL	<0.027	<0.027	<0.03	<0.03	<0.03	<0.12	<0.085
Pentachlorophenol	0.8	6.7	6.7	<0.04	<0.04	<0.044	<0.045	<0.044	<0.17	<0.12
Phenanthrene	100	100	500	<0.022	<0.022	0.066	<0.025	0.3	<0.096	<0.07
Phenol	0.33	100	500	<0.028	<0.028	<0.03	<0.031	<0.03	<0.12	<0.086
Pyrene	100	100	500	<0.018	<0.018	0.18	<0.02	0.91	<0.079	<0.057
Total SVOCs				-	-	1.844	-	5.775	-	-
Total TIC Compounds	NL	NL	NL	-	-	-	-	0.863	-	-

NOTES:

All values displayed in milligrams per kilograms (mg/kg), equal to parts per million (ppm)
*- Indicates compound was not detected above the indicated laboratory method detection limit (MDL).
Bold font indicates the concentration exceeds the method detection limit (MDL).
SVOCs analyzed by USEPA Method 8270E
TICs stands for Tentatively Identified Compounds
NL indicates Not Listed
J indicates an estimated value (above the MDL but below the laboratory method reportable limit (RL))
Data has been validated
Blue font represents a change made in the DUSR
UJ indicates nondetect with estimated quantitation limits

Table 3C (1 of 1)
Phase II Environmental Site Assessment
42 York Street, Rochester, New York 14614
Summary of Metals in Soil
LaBella Project # 2230119



Sample Location	Sample ID	NYCRR Part 375 Unrestricted Use SCOs	NYCRR Part 375 Restricted Residential Use SCOs	NYCRR Part 375 Commercial Use SCOs	TP-02		TP-03	TP-04	TP-05	TP-06	TP-07
					TP-02-3-4 FT	BD-01-3-4 FT	TP-03-0.5-2 FT	TP-04-0.5-2.5 FT	TP-05-0.5-2.5 FT	TP-06-0.4-3 FT	TP-07-2-4.5 FT
Laboratory ID					L2339907-02	L2339907-09	L2339907-03	L2339907-04	L2339907-05	L2339907-06	L2339907-07
Sample Depth (ft bgs)					3-4	3-4	0.5-2	0.5-2.5	0.5-2.5	0.4-3	2-4.5
Sample Date					7/11/2023	7/11/2023	7/11/2023	7/12/2023	7/12/2023	7/12/2023	7/11/2023
Metals											
Aluminum, Total	NL	NL	NL		4380	4710	6410	5350	5590	5690	4530
Antimony, Total	NL	NL	NL		0.611 J	0.484 J	1.42 J	0.698 J	1.2 J	0.682 J	<0.347
Arsenic, Total	13	16	16		2.9	2.07	6.53	7.92	9.3	6.45	2.82
Barium, Total	350	400	400		30.5	35.3	128	117	103	69.1	75.4
Beryllium, Total	7.2	72	590		0.336 J	0.341 J	0.506	0.549	0.543	1.18	0.492
Cadmium, Total	2.5	4.3	9.3		<0.085	<0.084	1.91	0.53 J	0.35 J	2.8	<0.09
Calcium, Total	NL	NL	NL		2280	2260	15000	10000	16200	4190	10900
Chromium, Total	1 / 30	110 / 180	400 / 1500		6.76	6.95	10.7	9.55	8.78	7.74	5.52
Cobalt, Total	NL	NL	NL		3.41	3.7	4.54	4.52	6.15	5.68	8.32
Copper, Total	50	270	270		7.86	6.59	94.5	84.5	67.8	241	24.3
Iron, Total	NL	NL	NL		12000	10900	16400	9950	15100	9290	4080
Lead, Total	63	400	1,000		17.2	4.34	253	1080	98.4	52.7	324
Magnesium, Total	NL	NL	NL		1660	1820	5780	3300	7200	1520	3560
Manganese, Total	1,600	2,000	10,000		359	458	423	265	321	206	134
Mercury, Total	0.18	0.81	2.8		<0.052	<0.05	0.484	0.358	0.59	<0.084	0.118
Nickel, Total	30	310	310		7.58	9.16	17	31.5	14.2	51.8	13.7
Potassium, Total	NL	NL	NL		379	364	548	438	585	408	416
Selenium, Total	3.9	180	1,500		<0.225	<0.222	0.291 J	0.436 J	<0.243	0.846 J	<0.236
Silver, Total	2	180	1,500		<0.246	<0.243	<0.263	<0.275	<0.266	<0.358	<0.258
Sodium, Total	NL	NL	NL		76.9 J	68.4 J	92.3 J	132 J	184 J	174 J	199
Thallium, Total	NL	NL	NL		<0.274	<0.271	<0.293	<0.306	<0.296	<0.399	<0.288
Vanadium, Total	NL	NL	NL		13.3	12.4	15.7	16.3	20.7	19.5	16.4
Zinc, Total	109	10,000	10,000		47	30	1050	248	342	635	52.4

NOTES:

All values displayed in milligrams per kilograms (mg/kg), equal to parts per million (ppm)

"<" - Indicates compound was not detected above the indicated laboratory method detection limit (MDL).

Bold font indicates the concentration exceeds the method detection limit (MDL).

Underlined font indicates that the compound was detected at a concentration above its respective NYCRR Part 375-6.8(a) Unrestricted Use Soil Cleanup Objective (SCO)

Red font indicates that the compound was detected at a concentration above its respective NYCRR Part 375-6.8(b) Restricted Residential Use SCO

Yellow highlight indicates that the compound was detected at a concentration above its respective NYCRR Part 375-6.8(b) Commercial Use SCO

Metals analyzed by USEPA Method 6010D/7471B

NL indicates Not Listed

J indicates an estimated value (above the MDL but below the laboratory method reportable limit (RL))

Table 4A
Phase II Environmental Site Assessment
42 York Street, Rochester, New York 14614
Summary of Volatile Organic Compounds in Groundwater
LaBella Project # 2230119



Well Location: Sample ID: Laboratory ID	NY-TOGS-GA	MW-01	YS-MW-2023-01		TRIP BLANK
		MW-01 072623 L2343170-02	YS-MW-2023-01 072623 L2343170-01	YS-MW-2023-BD-072623 L2343170-03	
Screen Depth (ft bgs):		3.5 - 10.5	3.0 - 11.0		-
Sample Date:		7/26/2023	7/26/2023	7/26/2023	7/26/2023
VOCs					
1,1,1-Trichloroethane	5	<0.7	<0.7	<0.7	<0.7
1,1,2,2-Tetrachloroethane	5	<0.17	<0.17	<0.17	<0.17
1,1,2-Trichloroethane	1	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	5	<0.7	<0.7	<0.7	<0.7
1,1-Dichloroethene	5	<0.17	<0.17	<0.17	<0.17
1,2,4-Trichlorobenzene	5	<0.7	<0.7	<0.7	<0.7
1,2,4-Trimethylbenzene	5	<0.7	<0.7	<0.7	<0.7
1,2-Dibromo-3-chloropropane	0.04	<0.7 UJ	<0.7 UJ	<0.7 UJ	<0.7 UJ
1,2-Dibromoethane	0.0006	<0.65	<0.65	<0.65	<0.65
1,2-Dichlorobenzene	3	<0.7	<0.7	<0.7	<0.7
1,2-Dichloroethane	0.6	<0.13	<0.13	<0.13	<0.13
1,2-Dichloropropane	1	<0.14	<0.14	<0.14	<0.14
1,3,5-Trimethylbenzene	5	<0.7	<0.7	<0.7	<0.7
1,3-Dichlorobenzene	3	<0.7	<0.7	<0.7	<0.7
1,4-Dichlorobenzene	3	<0.7	<0.7	<0.7	<0.7
2-Butanone	50	<1.9	<1.9	<1.9	<1.9
2-Hexanone	50	<1 UJ	<1 UJ	<1 UJ	<1 UJ
4-Methyl-2-pentanone	NL	<1 UJ	<1 UJ	<1 UJ	<1 UJ
Acetone	50	<1.5	<1.5	1.5 J	<1.5
Benzene	1	<0.16	<0.16	<0.16	<0.16
Bromodichloromethane	50	<0.19	<0.19	<0.19	<0.19
Bromoform	50	<0.65	<0.65	<0.65	<0.65
Bromomethane	5	<0.7	<0.7	<0.7	<0.7
Carbon disulfide	60	<1	<1	<1	<1
Carbon tetrachloride	5	<0.13	<0.13	<0.13	<0.13
Chlorobenzene	5	<0.7	<0.7	<0.7	<0.7
Chloroethane	5	<0.7	<0.7	<0.7	<0.7
Chloroform	7	<0.7	<0.7	<0.7	<0.7
Chloromethane	NL	<0.7	<0.7	<0.7	<0.7
cis-1,2-Dichloroethene	5	<0.7	<0.7	<0.7	<0.7
cis-1,3-Dichloropropene	0.4	<0.14	<0.14	<0.14	<0.14
Cyclohexane	NL	<0.27	<0.27	<0.27	<0.27
Dibromochloromethane	50	<0.15	<0.15	<0.15	<0.15
Dichlorodifluoromethane	5	<1	<1	<1	<1
Ethylbenzene	5	<0.7	<0.7	<0.7	<0.7
Freon-113	5	<0.7	<0.7	<0.7	<0.7
Isopropylbenzene	5	<0.7	<0.7	<0.7	<0.7
Methyl Acetate	NL	<0.23	<0.23	<0.23	<0.23
Methyl cyclohexane	NL	<0.4	<0.4	<0.4	<0.4
Methyl tert butyl ether	10	<0.7	<0.7	<0.7	<0.7
Methylene chloride	5	<0.7	<0.7	<0.7	<0.7
n-Butylbenzene	5	<0.7	<0.7	<0.7	<0.7
n-Propylbenzene	5	<0.7	<0.7	<0.7	<0.7
Naphthalene	10	<0.7 UJ	<0.7 UJ	<0.7 UJ	<0.7 UJ
o-Xylene	5	<0.7	<0.7	<0.7	<0.7
p-Isopropyltoluene	5	<0.7	<0.7	<0.7	<0.7
p/m-Xylene	5	<0.7	<0.7	<0.7	<0.7
sec-Butylbenzene	5	<0.7	<0.7	<0.7	<0.7
Styrene	930	<0.7	<0.7	<0.7	<0.7
tert-Butylbenzene	5	<0.7	<0.7	<0.7	<0.7
Tetrachloroethene	5	<0.18	<0.18	<0.18	<0.18
Toluene	5	<0.7	<0.7	<0.7	<0.7
trans-1,2-Dichloroethene	5	<0.7	<0.7	<0.7	<0.7
trans-1,3-Dichloropropene	0.4	<0.16	<0.16	<0.16	<0.16
Trichloroethene	5	<0.18	2.9	2.8	<0.18
Trichlorofluoromethane	5	<0.7	<0.7	<0.7	<0.7
Vinyl chloride	2	<0.07	<0.07	<0.07	<0.07
Total VOCs		-	2.9	4.3	-

Notes:

All values displayed in micrograms per liter (ug/l), equal to parts per billion (ppb)
 c - Indicates compound was not detected above the indicated laboratory method detection limit (MDL).
 Bold font indicates the concentration exceeds the MDL.
 VOCs analyzed by USEPA Method 8260D
 NL indicates Not Listed
 J indicates an estimated value (above the MDL but below the laboratory method reportable limit (RL))
 Data has been validated
 Blue font represents a change made in the DUSR
 UJ indicates nondetect with estimated quantitation limits

Table 4B
Phase II Environmental Site Assessment
42 York Street, Rochester, New York 14614
Summary of Semi-Volatile Organic Compounds in Groundwater
LaBella Project # 2230119



Well Location: Sample ID: Laboratory ID Screen Depth (ft bgs): Sample Date:	NY-TOGS-GA	MW-01	YS-MW-2023-01	
		MW-01 072623	YS-MW-2023-01 072623	YS-MW-2023-01 072623
		L2343170-02	L2343170-01	L2343170-03
		3.5 - 10.5	3.0 - 11.0	
		7/26/2023	7/26/2023	7/26/2023
SVOCs				
1,2,4,5-Tetrachlorobenzene	5	<0.62	<0.62	<0.62
2,3,4,6-Tetrachlorophenol	NL	<0.47	<0.47	<0.47
2,4,5-Trichlorophenol	NL	<0.38	<0.38	<0.38
2,4,6-Trichlorophenol	NL	<0.49	<0.49	<0.49
2,4-Dichlorophenol	2	<0.53	<0.53	<0.53
2,4-Dimethylphenol	2	<1.1	<1.1	<1.1
2,4-Dinitrophenol	2	<3.6	<3.6	<3.6
2,4-Dinitrotoluene	5	<0.38	<0.38	<0.38
2,6-Dinitrotoluene	5	<0.37	<0.37	<0.37
2-Chlorophenol	NL	<0.4	<0.4	<0.4
2-Methylphenol	NL	<1.1	<1.1	<1.1
2-Nitroaniline	5	<0.52	<0.52	<0.52
2-Nitrophenol	NL	<0.46	<0.46	<0.46
3,3-Dichlorobenzidine	5	<0.85	<0.85	<0.85
3-Methylphenol/4-Methylphenol	NL	<0.55	<0.55	<0.55
3-Nitroaniline	5	<0.57	<0.57	<0.57
4,6-Dinitro-o-cresol	NL	<5.4	<5.4	<5.4
4-Bromophenyl phenyl ether	NL	<0.63	<0.63	<0.63
4-Chloroaniline	5	<0.65	<0.65	<0.65
4-Chlorophenyl phenyl ether	NL	<0.8	<0.8	<0.8
4-Nitroaniline	5	<0.58	<0.58	<0.58
4-Nitrophenol	NL	<1.1	<1.1	<1.1
Acetophenone	NL	<0.98	<0.98	<0.98
Atrazine	7.5	<1.7	<1.7	<1.7
Benzaldehyde	NL	<0.9	<0.9	<0.9
Biphenyl	NL	<0.64	<0.64	<0.64
Bis(2-chloroethoxy)methane	5	<1.5	<1.5	<1.5
Bis(2-chloroethyl)ether	1	<0.88	<0.88	<0.88
Bis(2-chloroisopropyl)ether	5	<1.8	<1.8	<1.8
Bis(2-ethylhexyl)phthalate	5	<1.5	<1.5	<1.5
Butyl benzyl phthalate	50	<2.2	<2.2	<2.2
Caprolactam	NL	<1.3	<1.3	<1.3
Carbazole	NL	<0.76	<0.76	<0.76
Di-n-butylphthalate	50	<0.58	<0.58	<0.58
Di-n-octylphthalate	50	<2.4	<2.4	<2.4
Dibenzofuran	NL	<0.82	<0.82	<0.82
Diethyl phthalate	50	<4.3	<4.3	<4.3
Dimethyl phthalate	50	<4.4	<4.4	<4.4
Hexachlorocyclopentadiene	5	<0.61	<0.61	<0.61
Isophorone	50	<0.66	<0.66	<0.66
n-Nitrosodi-n-propylamine	NL	<0.77	<0.77	<0.77
NDPA/DPA	50	<0.65	<0.65	<0.65
Nitrobenzene	0.4	<0.66	<0.66	<0.66
p-Chloro-m-cresol	NL	<0.41	<0.41	<0.41
Phenol	2	<1.3	<1.3	<1.3
SVOCs (GC/MS-SIM)				
2-Chloronaphthalene	10	<0.04	<0.04	<0.04
2-Methylnaphthalene	NL	<0.05	<0.05	<0.05
Acenaphthene	20	<0.04	<0.04	<0.04
Acenaphthylene	NL	<0.04	<0.04	<0.04
Anthracene	50	<0.04	<0.04	<0.04
Benzo(a)anthracene	0.002	<0.02	0.02 J	<0.02
Benzo(a)pyrene	0	<0.04	<0.04	<0.04
Benzo(b)fluoranthene	0.002	<0.02	0.03 J	<0.02
Benzo(ghi)perylene	NL	<0.04	<0.04	<0.04
Benzo(k)fluoranthene	0.002	<0.04	<0.04	<0.04
Chrysene	0.002	<0.04	<0.04	<0.04
Dibenzo(a,h)anthracene	NL	<0.04	<0.04	<0.04
Fluoranthene	50	<0.04	0.05 J	<0.04
Fluorene	50	<0.04	<0.04	<0.04
Hexachlorobenzene	0.04	<0.03	<0.03	<0.03
Hexachlorobutadiene	0.5	<0.04	<0.04	<0.04
Hexachloroethane	5	<0.03	<0.03	<0.03
Indeno(1,2,3-cd)pyrene	0.002	<0.04	<0.04	<0.04
Naphthalene	10	<0.04	<0.04	<0.04
Pentachlorophenol	2	1.9	<0.22	0.27 J
Phenanthrene	50	<0.02	0.02 J	<0.02
Pyrene	50	<0.04	0.04 J	<0.04
Total SVOCs		1.9	0.16	0.27

Notes:

All values displayed in micrograms per liter (ug/l), equal to parts per billion (ppb)

*< - Indicates compound was not detected above the indicated laboratory method detection limit (MDL).

Bold font indicates the concentration exceeds the method detection limit (MDL).

Yellow highlight indicates that the compound was detected at a concentration above its respective 6 NYCRR Part 703 Groundwater Quality Standard or Technical and Operational Guidance Series (TOGS 1.1.1) Guidance Value

SVOCs analyzed by USEPA Method 8270E

NL indicates Not Listed

J indicates an estimated value (above the MDL but below the laboratory method reportable limit (RL))

Data has been validated

Blue font represents a change made in the DUSR.

UJ indicates nondetect with estimated quantitation limits

Table 4C
Phase II Environmental Site Assessment
42 York Street, Rochester, New York 14614
Summary of Metals in Groundwater
LaBella Project # 2230119



Well Location:	NY-TOGS-GA	MW-01	YS-MW-2023-01	
Sample ID:		MW-01 072623	YS-MW-2023-01 072623	YS-MW-2023-BD-072623
Laboratory ID		L2343170-02	L2343170-01	L2343170-03
Screen Depth (ft bgs):		3.5 - 10.5	3.0 - 11.0	
Sample Date:		7/26/2023	7/26/2023	7/26/2023
Metals				
Aluminum, Total	2000	113	251	123
Antimony, Total	6	0.8 J	<0.42	<0.42
Arsenic, Total	50	2.37	1.51	1.25
Barium, Total	2000	30.53	152.9	95.36
Beryllium, Total	3	<0.1	<0.1	<0.1
Cadmium, Total	10	0.11 J	0.15 J	<0.05
Calcium, Total	NL	53100	115000	107000
Chromium, Total	100	0.52 J	1.05	0.84 J
Cobalt, Total	NL	0.72	0.31 J	0.18 J
Copper, Total	1000	6.11	102.2	12.16
Iron, Total	600	1170	681	247
Lead, Total	50	1.11	15.77	2.36
Magnesium, Total	35000	9760	25900	27100
Manganese, Total	600	533.6	81.69	42.68
Mercury, Total	1.4	<0.09	<0.09	<0.09
Nickel, Total	200	1.99 J	3.57	1.09 J
Potassium, Total	NL	3520	7320	6720
Selenium, Total	20	<1.73	5.38	5.02
Silver, Total	100	<0.16	<0.16	<0.16
Sodium, Total	NL	23700	5880	6210
Thallium, Total	0.5	<0.14	<0.14	<0.14
Vanadium, Total	NL	1.89 J	1.87 J	<1.57
Zinc, Total	5000	101.6	125	19.36

Notes:

All values displayed in micrograms per liter (ug/l), equal to parts per billion (ppb)

"<" - Indicates compound was not detected above the indicated laboratory method detection limit (MDL).

Bold font indicates the concentration exceeds the method detection limit (MDL).

Yellow highlight indicates that the compound was detected at a concentration above its respective 6 NYCRR Part 703 Groundwater Quality Standard or Technical and Operational Guidance Series (TOGS 1.1.1) Guidance Value

* indicates no Part 703 Standard, TOGS 1.1.1 Guidance Value is listed

Metals analyzed by USEPA Method 6020B/7470A

NL indicates Not Listed

J indicates an estimated value (above the MDL but below the laboratory method reportable limit (RL))

Table 5
Phase II Environmental Site Assessment
42 York Street, Rochester, New York 14614
Summary of Waste Characterization Analytical Results
LaBella Project # 2230119



Sample Location:	TCLP Standard	TP-01	TP-06	TP-08	TP-09		TP-10
Sample ID:		WC-01-0.25-5 FT	WC-08-0.4-3 FT	WC-03-1-6 FT	WC-02-0.75-2 FT	WC-05-4-5 FT	WC-04-3.5-6.5 FT
Laboratory ID:		L2339895-01	L2339895-08	L2339895-03	L2339895-02	L2339895-05	L2339895-04
Sample Depth (ft bgs):		0.25-5	0.4-3	1-6	0.75-2	4-5	3.5-6.5
Sample Date:		7/11/2023	7/12/2023	7/12/2023	7/11/2023	7/11/2023	7/12/2023
TCLP VOCs							
1,1-Dichloroethene	0.7	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
1,2-Dichloroethane	0.5	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
1,4-Dichlorobenzene	7.5	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019
2-Butanone	200	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019
Benzene	0.5	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Carbon tetrachloride	0.5	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
Chlorobenzene	100	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Chloroform	6	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022
Tetrachloroethene	0.7	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Trichloroethene	0.5	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
Vinyl chloride	0.2	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071
TCLP SVOCs							
2,4,5-Trichlorophenol	400	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019
2,4,6-Trichlorophenol	2	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2,4-Dinitrotoluene	0.13	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019
2-Methylphenol	200	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
3-Methylphenol/4-Methylphenol	200	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028
Hexachlorobenzene	0.13	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034
Hexachlorobutadiene	0.5	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Hexachloroethane	3	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022
Nitrobenzene	2	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
Pentachlorophenol	100	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098
Pyridine	5	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045
PCBs							
Aroclor 1016	NL	<0.00516	<0.0064	<0.00474	<0.00647	<0.00594	<0.00596
Aroclor 1221	NL	<0.00582	<0.00722	<0.00535	<0.0073	<0.00671	<0.00673
Aroclor 1232	NL	<0.0123	<0.0153	<0.0113	<0.0154	<0.0142	<0.0142
Aroclor 1242	NL	<0.00783	<0.00972	<0.00719	<0.00982	<0.00902	<0.00905
Aroclor 1248	NL	<0.00871	<0.0108	<0.008	<0.0109	<0.01	<0.0101
Aroclor 1254	NL	<0.00635	<0.00789	<0.00584	<0.00797	<0.00732	<0.00734
Aroclor 1260	NL	<0.0107	<0.0133	<0.00986	0.0212 J	<0.0124	<0.0124
Aroclor 1262	NL	<0.00738	<0.00916	<0.00678	<0.00926	<0.0085	<0.00852
Aroclor 1268	NL	<0.00602	<0.00747	<0.00553	<0.00755	<0.00693	<0.00695
PCBs, Total	NL	<0.00516	<0.0064	<0.00474	0.0212 J	<0.00594	<0.00596
TCLP Metals							
Arsenic, TCLP	5	<0.019	<0.019	<0.019	0.0223 J	<0.019	<0.019
Barium, TCLP	100	0.458 J	0.219 J	0.215 J	0.147 J	0.388 J	0.647
Cadmium, TCLP	1	<0.01	0.0188 J	<0.01	<0.01	<0.01	<0.01
Chromium, TCLP	5	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021
Lead, TCLP	5	0.323 J	<0.027	<0.027	0.344 J	<0.027	0.575
Mercury, TCLP	0.2	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Selenium, TCLP	1	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035
Silver, TCLP	5	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
General Chemistry							
Cyanide, Reactive	NL	<10	<10	<10	<10	<10	<10
Sulfide, Reactive	NL	<10	<10	<10	<10	<10	<10
Corrosivity (pH)	<2 or >12.5	7.91	7.07	7.54	7.6	8.32	7.39
Ignitability	<140 F	NI	NI	NI	NI	NI	NI

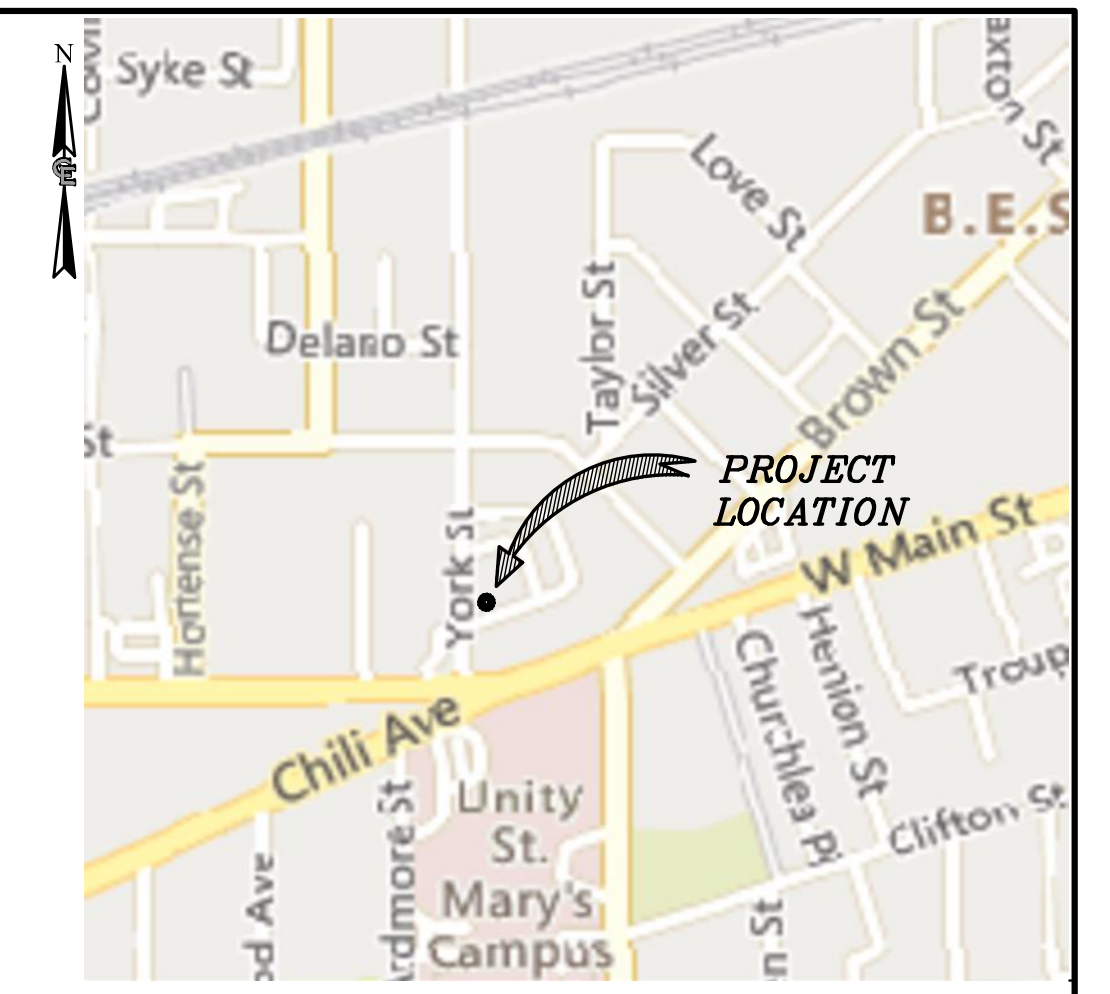
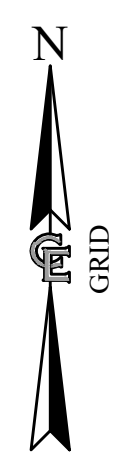
NOTES:

All values displayed in milligrams per Liter (mg/L), equal to parts per million (ppm)
"<" - Indicates compound was not detected above the indicated laboratory method detection limit (MDL).
Bold font indicates the concentration exceeds the MDL.
NL indicates Not Listed
NI indicates that the sample is non-ignitable.
J indicates an estimated value (above the MDL but below the laboratory reportable limit (RL)).



APPENDIX 1

York Street Environmental Investigation Exhibit (Survey) – Existing Features
(By Costich Engineering, DPC)



LOCATION SKETCH

SYMBOL LEGEND

⊙	DRAINAGE MANHOLE	⊕	ELECTRIC MANHOLE
⊕	INLET DRAINAGE MANHOLE	⊕	ELECTRIC METER
⊕	CATCH BASIN	⊕	TELEPHONE MANHOLE
⊕	END SECTION	⊕	TELEPHONE PEDESTAL
⊕	END OF PIPE	⊕	PEDESTRIAN POLE
⊕	MANHOLE	⊕	TRAFFIC CONTROL CABINET
⊕	SANITARY MANHOLE	⊕	LAMP POST
⊕	CLEAN OUT	⊕	UTILITY POLE WITH LIGHT
⊕	GAS VALVE	⊕	FLAG POLE
⊕	GAS SERVICE	⊕	MAILBOX
⊕	GAS METER	⊕	BOLLARD
⊕	SPRINKLER VALVE	⊕	POST
⊕	SPRINKLER HEAD	⊕	SIGN
⊕	WATER VALVE	⊕	SIGN
⊕	WATER SERVICE	⊕	SIGN
⊕	HYDRANT	⊕	TURNING ARROW
⊕	WATER METER	⊕	HANDICAP
⊕	WELL	⊕	STOP BAR
⊕	BORE	⊕	TREE DECIDUOUS
⊕	CABLE TV PEDESTAL	⊕	TREE CONIFEROUS
⊕	SIGNAL POLE	⊕	BUSH
⊕	UTILITY POLE	⊕	AIR CONDITIONING UNIT
⊕	GUY WIRE	⊕	SANITARY UTILITY LATH
⊕	PULL BOX	⊕	GAS UTILITY LATH
⊕	ELECTRIC PULL BOX	⊕	WATER UTILITY LATH
⊕	TELEPHONE PULL BOX	⊕	TELEPHONE UTILITY LATH
⊕	TRAFFIC PULL BOX	⊕	ELECTRIC UTILITY LATH
⊕	TRANSFORMER	⊕	CABLE UTILITY LATH

SURVEY NOTES

- ALL BOUNDARY SHOWN IS APPROXIMATE PER CITY OF ROCHESTER TAX MAP OVERLAY.
- LOCATIONS SHOWN FROM A FIELD SURVEY BY COSTICH ENGINEERING ON 8/3/2013 HORIZONTAL AND VERTICAL DATA OBTAINED THROUGH NYS DOT CORS NETWORK REFERENCED TO THE FOLLOWING MONUMENT
 PITTSFORD CORS STATION
 -LATITUDE: 43-05-35.48461 (N) NAD 83 (CORS)
 -LONGITUDE: 077-31-31.11244 (W)
 -ELLIP HEIGHT: 113.481 METERS NAVD 88 (CORS)

LINE LEGEND

---	SECTION/PARCEL BOUNDARY
---	MIN. BUILDING SETBACK
---	CENTER LINE
---	EXIST. EASEMENT LINE
---	EXIST. RIGHT-OF-WAY LINE
---	EXIST. EDGE OF PAVEMENT
---	EXISTING WATER MAIN, VALVE, & HYDRANT.
---	EXISTING SANITARY SEWER, & MANHOLE.
---	EXISTING DRAINAGE SEWER, FIELD INLET, INLET MANHOLE, MANHOLE, & END SECTION.
---	EXISTING OVERHEAD UTILITIES
---	EXISTING TELEPHONE
---	EXISTING UNDERGROUND UTILITIES
---	EXISTING GAS
---	EXISTING ELECTRIC
---	EXISTING GUARD RAIL
---	TREE, HEDGE, EDGE OF WOODS
---	EXISTING SWALE
---	BARBED WIRE, STOCKADE, CHAIN LINKED FENCE
---	EXISTING CONTOUR
---	EXISTING SPOT ELEVATION @ X
---	CONCRETE PAD/ CONCRETE SIDEWALK

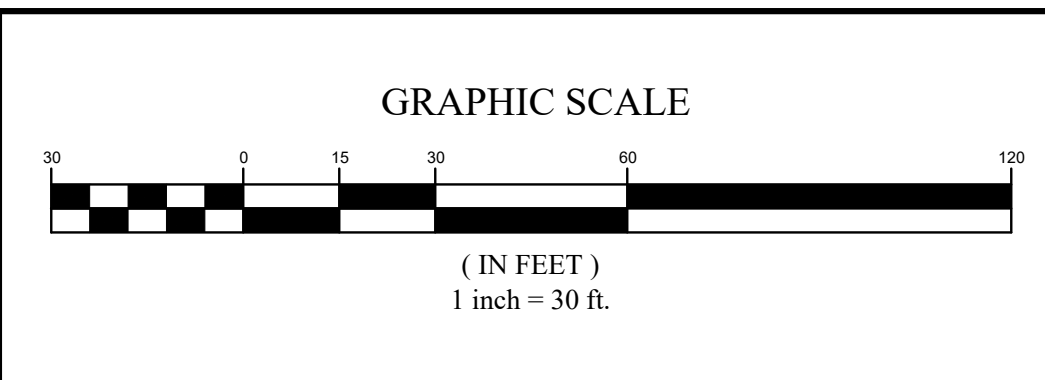
CERTIFICATION

WE, COSTICH ENGINEERING, D.P.C., HEREBY CERTIFY TO
 .
 .
 .
 THAT THIS MAP WAS PREPARED FROM NOTES OF AN INSTRUMENT SURVEY COMPLETED ON 08/03/2023 AND FROM THE REFERENCE(S) LISTED HEREON. NO SEARCH OF RECORDS, OTHER THAN THOSE REFERENCED, WAS MADE FOR EASEMENTS OR ENCUMBRANCES AFFECTING THIS PARCEL.

By: *Daniel T. Hickok* Date: 08-11-23
 Daniel T. Hickok, N.Y.S. L.S., No. 050449

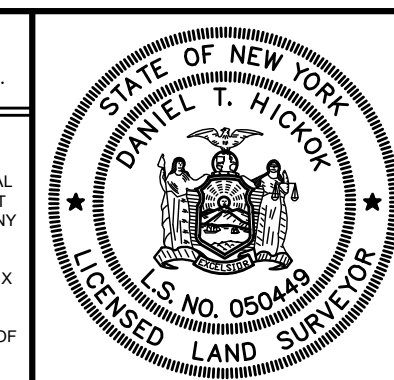


EXISTING UTILITIES (LOCATION, SIZES AND INVERTS) SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT CERTIFIED AS TO THE ACCURACY OF THEIR LOCATION OR COMPLETENESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES AND STRUCTURES IN THE PATH OF, OR CLOSELY PARALLEL TO, OR UNDER, THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS OR DAMAGES OCCURRING AS A RESULT OF INCORRECTLY LOCATED UTILITIES. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITY OWNERS IN AMPLI TIME FOR THEM TO LOCATE AND MARK THEIR FACILITIES. THE CONTRACTOR SHALL ALSO NOTIFY UNDERGROUND UTILITY LOCATION SERVICE AT LEAST 48 HOURS IN ADVANCE OF COMMENCING ANY WORK.



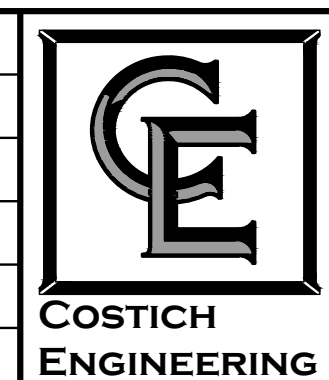
NO.	DATE	REVISION	BY	CHKD.	APVLS.

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 COSTICH ENGINEERING, D.P.C.
 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT OR LANDSCAPE ARCHITECT TO ALTER ANY ITEM ON THIS DOCUMENT IN ANY WAY. ANY LICENSEE WHO ALTERS THIS DOCUMENT IS REQUIRED BY LAW TO AFFIX HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND SPECIFIC DESCRIPTION OF THE ALTERATION, TO THE DOCUMENT.



PROJECT MANAGER
 D.T.H.
 DRAWN BY
 T.F.R.
 BOUNDARY

 TOPBASE
 T.F.R.
 DATE
 08/10/2023
 SCALE
 1"=30'



• CIVIL ENGINEERING
 • LAND SURVEYING
 • LANDSCAPE ARCHITECTURE
 217 LAKE AVENUE
 ROCHESTER, NY 14608
 (585) 458-3020

TITLE OF PROJECT
YORK STREET ENVIORNMENTAL INVESTIGATION EXHIBIT
 TITLE OF DRAWING
EXISTING FEATURES
 LOCATION OF PROJECT
 TAX PARCEL NO.'S 120-42-1-46, 120-42-1-47, 120-42-2-65, 120-42-2-70, 120-42-2-71, 120-42-2-72, 001
 CITY OF ROCHESTER, COUNTY OF MONROE, STATE OF NEW YORK
 CLIENT
 LABELLA ASSOCIATES
 300 STATE STREET - SUITE 201
 ROCHESTER, NEW YORK 14614
 DWG.# 8694
VE100
 SHEET 1 OF 1



APPENDIX 2

Field Logs



TEST PIT LOG

Test Pit No.	TP-02
Sheet	1 of 1
Project No.:	2230119
Chkd By:	DB
Start Date:	7/11/2023
Finish Date:	7/11/2023

Project Name:	Phase II ESA
Location:	42 York Street, Rochester, New York
Client:	City of Rochester / NYSDEC / USEPA
Contractor:	LaBella ENV LLC
Operator:	Andrew LeFebvre

Key:	Geologic Strata Change	Equipment:	Kubota Excavator
-----	Gradation Change Within Strata	Logged By:	A. daSilva
-----	End of Test Pit	LaBella Rep.:	A. daSilva
		Time Start:	1350
		Time End:	1430

Test Pit Location: Northeast corner of Site.

Depth (ft.)	Sample Number / ID	Depth of Change (FT)	VISUAL-MANUAL MATERIAL DESCRIPTION trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%); WOH = weight of hammer ; WOR = weight of rod	PID (parts per million)	COMMENTS
1	TP-02-3-4ft T:1430 MS/MSD BD-01-3-4ft T:XX	0.25	ASPHALT		Possible native material starting at 1.5 feet bgs; however, no oxidation or oxidation-transition zone was identified to verify native materials. Additionally, no apparent bedding to aid in identifying native soil.
		0.5	ASPHALT SUBBASE GRAVEL	0	
		1.5	Dark brown organic rich F SAND ; little SR gravel ; little silt ; moist	0	
2		Light tan-brown F SAND ; some silt ; little SR gravel (limestone, red sandstone, dolostone, trace chert) ; trace clay (plastic) ; trace cobbles ; massive ; moist	0		
3			0		
4			0		
5			0		
6			0		
7			0		
8			0		
9		0			
10		9.75	Apparent Bedrock refusal at 9.75 feet bgs	0	
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

WATER LEVEL DATA			DEPTH (FT)	BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED	ADDITIONAL NOTES:
Date	Time	Elapsed Time				
NA	NA	NA				
			9.75	NA		

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

BGS = Below Ground Surface and = 35 - 50% C = Coarse R = Rounded

NA = Not Applicable some = 20 - 35% M = Medium A = Angular

 little = 10 - 20% F = Fine SR = Subrounded

 trace = 1 - 10% VF = Very Fine SA = Subangular



TEST PIT LOG

Test Pit No.	TP-03
Sheet	1 of 1
Project No.:	2230119
Chkd By:	DB
Start Date:	7/11/2023
Finish Date:	7/11/2023

Project Name:	Phase II ESA
Location:	42 York Street, Rochester, New York
Client:	City of Rochester / NYSDEC / USEPA
Contractor:	LaBella ENV LLC
Operator:	Andrew LeFebvre

Key:		Equipment: Kubota Excavator	
_____	Geologic Strata Change	Logged By: A. daSilva	Time Start: 1512
-----	Gradation Change Within Strata	LaBella Rep.: A. daSilva	Time End: 1600
_____	End of Test Pit		

Test Pit Location: Northern portion of Site.

Depth (ft.)	Sample Number / ID	Depth of Change (FT)	VISUAL-MANUAL MATERIAL DESCRIPTION <small>trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%); WOH = weight of hammer ; WOR = weight of rod</small>	PID (parts per million)	COMMENTS
1	TP-03-0.5-2ft T: 1545	0.25	ASPHALT		Possible native material starting at 2 feet bgs; however, no oxidation or oxidation-transition zone was identified to verify native materials. Additionally, no apparent bedding to aid in identifying native soil.
		0.5	ASPHALT SUBBASE GRAVEL	0	
		2.0	Dark brown F SAND ; some silt ; little SR gravel ; little urban fill (wood planks ; brick chunks ; metal chunks and wire ; black stained apparent cinders) ; moist	0	
2		Light tan-brown F SAND ; some silt ; little SR gravel (limestone, red sandstone, dolostone, trace chert) ; trace clay (plastic) ; trace cobbles ; massive ; moist	0		
3			0		
4			0		
5			0		
6			0		
7			0		
8			0		
9		9.1	Apparent Bedrock refusal at 9.1 feet bgs	0	
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

DEPTH (FT)			ADDITIONAL NOTES:	
WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED
Date	Time	Elapsed Time	9.1	NA
NA	NA	NA		

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

BGS = Below Ground Surface and = 35 - 50% C = Coarse R = Rounded
 NA = Not Applicable some = 20 - 35% M = Medium A = Angular
 little = 10 - 20% F = Fine SR = Subrounded
 trace = 1 - 10% VF = Very Fine SA = Subangular

TEST PIT: TP-03



TEST PIT LOG

Test Pit No.	TP-04
Sheet	1 of 1
Project No.:	2230119
Chkd By:	DB
Start Date:	7/12/2023
Finish Date:	7/12/2023

Project Name:	Phase II ESA
Location:	42 York Street, Rochester, New York
Client:	City of Rochester / NYSDEC / USEPA
Contractor:	LaBella ENV LLC
Operator:	Andrew LeFebvre

Key:	_____ Geologic Strata Change	Equipment:	Kubota Excavator	
_____ Gradation Change Within Strata	Logged By:	A. daSilva	Time Start:	0710
_____ End of Test Pit	LaBella Rep.:	A. daSilva	Time End:	0800

Test Pit Location: Western portion of Site.

Depth (ft.)	Sample Number / ID	Depth of Change (FT)	VISUAL-MANUAL MATERIAL DESCRIPTION trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%); WOH = weight of hammer ; WOR = weight of rod	PID (parts per million)	COMMENTS
1	TP-04-0.5-2ft T: 0800	0.25	ASPHALT		Possible native material starting at 4.5 feet bgs; however, no oxidation or oxidation-transition zone was identified to verify native materials. Additionally, no apparent bedding to aid in identifying native soil.
		0.5	SUBBASE GRAVEL	0	
2		2.0	Black stained URBAN FILL MATERIAL (apparent brick road with ash and terracotta subbase on northeast end of test pit beneath asphalt subbase gravel; apparent dolostone building foundation blocks located on west end of trench)	0	
				0	
3			Reworked brown F SAND ; some silt ; little SR gravel ; little cobbles (possible foundation material based on layering) ; moist	0	
				0	
4				0	
				0	
5		4.5	Light tan-brown F SAND ; some silt ; little SR gravel (limestone, red sandstone, dolostone, trace chert) ; trace clay (plastic) ; trace cobbles ; massive ; moist	0	
				0	
6				0	
				0	
7				0	
				0	
8				0	
				0	
9				0	
				0	
10		9.75	Apparent Bedrock refusal at 9.75 feet bgs	0	
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

DEPTH (FT)			ADDITIONAL NOTES:	
WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED
Date	Time	Elapsed Time		
NA	NA	NA	9.75	NA

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

BGS = Below Ground Surface and = 35 - 50% C = Coarse R = Rounded
 NA = Not Applicable some = 20 - 35% M = Medium A = Angular
 little = 10 - 20% F = Fine SR = Subrounded
 trace = 1 - 10% VF = Very Fine SA = Subangular



TEST PIT LOG

Test Pit No.	TP-05
Sheet	1 of 1
Project No.:	2230119
Chkd By:	DB
Start Date:	7/12/2023
Finish Date:	7/12/2023

Project Name:	Phase II ESA
Location:	42 York Street, Rochester, New York
Client:	City of Rochester / NYSDEC / USEPA
Contractor:	LaBella ENV LLC
Operator:	Andrew LeFebvre

Key:	_____ Geologic Strata Change	Equipment:	Kubota Excavator	
_____ Gradation Change Within Strata	Logged By:	A. daSilva	Time Start:	0848
_____ End of Test Pit	LaBella Rep.:	A. daSilva	Time End:	0930

Test Pit Location: Eastern portion of Site.

Depth (ft.)	Sample Number / ID	Depth of Change (FT)	VISUAL-MANUAL MATERIAL DESCRIPTION trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%); WOH = weight of hammer ; WOR = weight of rod	PID (parts per million)	COMMENTS
1	TP-05-0.5-2.5ft T: 0930	0.25	ASPHALT	0	Possible native material starting at 2.5 feet bgs; however, no oxidation or oxidation-transition zone was identified to verify native materials. Additionally, no apparent bedding to aid in identifying native soil.
		0.5	ASPHALT SUBBASE GRAVEL	0	
		2.5	URBAN FILL - ASH intermixed with dark brown F to M SAND, AND SILT ; little brick ; little metal slag and wire ; little SA to SR gravel ; trace glass ; moist	0	
			Possible reworked Light tan-brown F SAND ; some silt ; little SR gravel (limestone, red sandstone, dolostone, trace chert) ; trace clay (plastic) ; trace cobbles ; massive ; moist	0	
4.5	Refusal at 4.5 feet bgs - possible bedrock. Moved test pit 3 feet towards to north to avoid blockage - could not pass stone.	0			
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

DEPTH (FT)			ADDITIONAL NOTES:	
WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED
Date	Time	Elapsed Time		
NA	NA	NA	4.5	NA

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

BGS = Below Ground Surface and = 35 - 50% C = Coarse R = Rounded

NA = Not Applicable some = 20 - 35% M = Medium A = Angular

 little = 10 - 20% F = Fine SR = Subrounded

 trace = 1 - 10% VF = Very Fine SA = Subangular

TEST PIT: TP-05



TEST PIT LOG

Test Pit No.	TP-06
Sheet	1 of 1
Project No.:	2230119
Chkd By:	DB
Start Date:	7/12/2023
Finish Date:	7/12/2023

Project Name:	Phase II ESA
Location:	42 York Street, Rochester, New York
Client:	City of Rochester / NYSDEC / USEPA
Contractor:	LaBella ENV LLC
Operator:	Andrew LeFebvre

Key:	Geologic Strata Change	Equipment:	Kubota Excavator
-----	Gradation Change Within Strata	Logged By:	A. daSilva
-----	End of Test Pit	LaBella Rep.:	A. daSilva
		Time Start:	0958
		Time End:	1040

Test Pit Location: Center of Site.

Depth (ft.)	Sample Number / ID	Depth of Change (FT)	VISUAL-MANUAL MATERIAL DESCRIPTION trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%); WOH = weight of hammer ; WOR = weight of rod	PID (parts per million)	COMMENTS	
1	TP-06-0.4-3ft T: 1040	0.25	Double ASPHALT layer	0	Possible native material starting at 3 feet bgs; however, no oxidation or oxidation-transition zone was identified to verify native materials. Additionally, no apparent bedding to aid in identifying native soil.	
		0.4	ASPHALT SUBBASE GRAVEL			
2	WC-08-0.4-3 FT	1.4	Dark and light brown F to M possible bedding SAND ; little silt ; little SR gravel ; moist	0		
3		3.0	ASH layer located on the south end consisting of ash, metal, engine gaskets, slag (copper, unknown material, and blueish metal), glass, burnt rock, and brick chunks	0		
4			Possible reworked Light tan-brown F SAND ; some silt ; little SR gravel (limestone, red sandstone, dolostone, trace chert) ; trace clay (plastic) ; trace cobbles ; massive ; moist	0		
5				0		
6			SATURATION from groundwater at 6 feet bgs	0		
7		7.0	Apparent Bedrock refusal at 7 feet bgs			
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

DEPTH (FT)			ADDITIONAL NOTES:	
WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED
Date	Time	Elapsed Time		
7/12/2023	1040	20 minutes	7.0	6

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

BGS = Below Ground Surface and = 35 - 50% C = Coarse R = Rounded
 NA = Not Applicable some = 20 - 35% M = Medium A = Angular
 little = 10 - 20% F = Fine SR = Subrounded
 trace = 1 - 10% VF = Very Fine SA = Subangular



TEST PIT LOG

Test Pit No.	TP-07
Sheet	1 of 1
Project No.:	2230119
Chkd By:	DB
Start Date:	7/12/2023
Finish Date:	7/12/2023

Project Name:	Phase II ESA
Location:	42 York Street, Rochester, New York
Client:	City of Rochester / NYSDEC / USEPA
Contractor:	LaBella ENV LLC
Operator:	Andrew LeFebvre

Key:		Equipment: Kubota Excavator
_____	Geologic Strata Change	Logged By: A. daSilva
_____	Gradation Change Within Strata	Time Start: 1110
_____	End of Test Pit	LaBella Rep.: A. daSilva
		Time End: 1145

Test Pit Location: Southwestern portion of Site.

Depth (ft.)	Sample Number / ID	Depth of Change (FT)	VISUAL-MANUAL MATERIAL DESCRIPTION <small>trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%); WOH = weight of hammer ; WOR = weight of rod</small>	PID (parts per million)	COMMENTS
1	TP-07-2-4.5ft T: 1145	0.25	ASPHALT		Organic identified include roots and tree trunks.
		0.75	ASPHALT SUBBASE GRAVEL	0	
2		2.0	Reworked brown to light brown F to M bedding SAND ; little silt ; little SR gravel ; massive ; moist	0	
3			ASH FILL including glass, slag, metal, burnt wood debris	0	
4		4.5		0	
5			Grey to brown organic rich F SAND (possible reworked) ; some silt ; little SR gravel ; trace cobble ; saturated	0	
6			SATURATION at 5.4 feet bgs	0	
7		7.1	Apparent bedrock refusal at 7.1 feet bgs	0	
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

DEPTH (FT)			ADDITIONAL NOTES:	
WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED
Date	Time	Elapsed Time		
7/12/2023	1145	20 minutes	7.1	5.4

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

BGS = Below Ground Surface and = 35 - 50% C = Coarse R = Rounded
 NA = Not Applicable some = 20 - 35% M = Medium A = Angular
 little = 10 - 20% F = Fine SR = Subrounded
 trace = 1 - 10% VF = Very Fine SA = Subangular

TEST PIT: TP-07



TEST PIT LOG

Test Pit No.	TP-08
Sheet	1 of 1
Project No.:	2230119
Chkd By:	DB
Start Date:	7/12/2023
Finish Date:	7/12/2023

Project Name:	Phase II ESA
Location:	42 York Street, Rochester, New York
Client:	City of Rochester / NYSDEC / USEPA
Contractor:	LaBella ENV LLC
Operator:	Andrew LeFebvre

Key:	_____	Geologic Strata Change	Equipment:	Kubota Excavator
	-----	Gradation Change Within Strata	Logged By:	A. daSilva
	_____	End of Test Pit	LaBella Rep.:	A. daSilva
			Time Start:	1202
			Time End:	1245

Test Pit Location: Eastern portion of Site.

Depth (ft.)	Sample Number / ID	Depth of Change (FT)	VISUAL-MANUAL MATERIAL DESCRIPTION trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%); WOH = weight of hammer ; WOR = weight of rod	PID (parts per million)	COMMENTS
		0.25	ASPHALT		
		1.0	ASPHALT SUBBASE GRAVEL	0	
		1.3	ASH AND F brown SAND ; some silt ; dry		
		2.0	Brown F SAND ; some silt ; some metal slag and charcoal ; dry	0	
			URBAN FILL - F brown SAND AND URBAN FILL (little brick ; little metal) ; dry to moist	0	
1	WC-03-1-6 FT			0	
2				0	
3				0	
4				0	
5				0	
6				0	
7		7.0	SATURATION at 6.0 feet bgs	0	
8			Apparent bedrock refusal at 7 feet bgs		
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

DEPTH (FT)				ADDITIONAL NOTES:	
WATER LEVEL DATA			BOTTOM OF TEST PIT		GROUNDWATER ENCOUNTERED
Date	Time	Elapsed Time	7.0		6.0
NA	NA	NA			

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

BGS = Below Ground Surface and = 35 - 50% C = Coarse R = Rounded
 NA = Not Applicable some = 20 - 35% M = Medium A = Angular
 little = 10 - 20% F = Fine SR = Subrounded
 trace = 1 - 10% VF = Very Fine SA = Subangular



TEST PIT LOG

Test Pit No.	TP-09
Sheet	1 of 1
Project No.:	2230119
Chkd By:	DB
Start Date:	7/11/2023
Finish Date:	7/11/2023

Project Name:	Phase II ESA
Location:	42 York Street, Rochester, New York
Client:	City of Rochester / NYSDEC / USEPA
Contractor:	LaBella ENV LLC
Operator:	Andrew LeFebvre

Key:		Equipment: Kubota Excavator
_____	Geologic Strata Change	Logged By: A. daSilva
_____	Gradation Change Within Strata	Time Start: 1100
_____	End of Test Pit	LaBella Rep.: A. daSilva
		Time End: 1200

Test Pit Location: Northwestern portion of Site (adjacent to TP-13 advanced in 2018).

Depth (ft.)	Sample Number / ID	Depth of Change (FT)	VISUAL-MANUAL MATERIAL DESCRIPTION <small>trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%); WOH = weight of hammer; WOR = weight of rod</small>	PID (parts per million)	COMMENTS
1	WC-02-0.75-2 FT	0.25	ASPHALT		Possible native material starting at 5 feet bgs; however, no oxidation or oxidation-transition zone was identified to verify native materials. Additionally, no apparent bedding to aid in identifying native soil.
		0.75	ASPHALT SUBBASE GRAVEL	0	
2		2.0	URBAN FILL MATERIAL (ASH, glass, F to M brick chunks) ; some C sand ; moist to dry	0	
3			Brown F SAND ; some silt ; little SA gravel ; trace C sand ; moist ; Not native	0	
4				0	
5		5.0		Brown F to M SAND ; little C SA sand ; little SR gravel ; little cobble ; trace silt ; moist to wet ; massive	
6			0		
7			0		
8			0		
9		9.0	Apparent bedrock refusal at 9 feet bgs	0	
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

DEPTH (FT)			ADDITIONAL NOTES: Only waste characterization samples collected.	
WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED
Date	Time	Elapsed Time	9.0	NA
NA	NA	NA		

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

BGS = Below Ground Surface and = 35 - 50% C = Coarse R = Rounded
 NA = Not Applicable some = 20 - 35% M = Medium A = Angular
 little = 10 - 20% F = Fine SR = Subrounded
 trace = 1 - 10% VF = Very Fine SA = Subangular



TEST PIT LOG

Test Pit No.	TP-10
Sheet	1 of 1
Project No.:	2230119
Chkd By:	DB
Start Date:	7/12/2023
Finish Date:	7/12/2023

Project Name:	Phase II ESA
Location:	42 York Street, Rochester, New York
Client:	City of Rochester / NYSDEC / USEPA
Contractor:	LaBella ENV LLC
Operator:	Andrew LeFebvre

Key:		Equipment: Kubota Excavator
_____	Geologic Strata Change	Logged By: A. daSilva
_____	Gradation Change Within Strata	Time Start: 1315
_____	End of Test Pit	LaBella Rep.: A. daSilva
		Time End: 1400

Test Pit Location: Southeastern portion of Site (adjacent to TP-14 advanced in 2018).

Depth (ft.)	Sample Number / ID	Depth of Change (FT)	VISUAL-MANUAL MATERIAL DESCRIPTION <small>trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%); WOH = weight of hammer ; WOR = weight of rod</small>	PID (parts per million)	COMMENTS	
1	WC-04-3.5-6.5 FT	0.25	ASPHALT			
		0.5	ASPHALT SUBBASE GRAVEL	0		
2		2.0	Brown F SAND ; some silt ; little SR gravel ; some dolostone blocks (apparent building footer wall) ; trace cobble ; moist to dry	0		
3			Fill material - Dark brown F to M SAND ; little silt ; little fill material (brick chunks, metal, glass, and ash) ; moist to dry	0		
4				0		
5				0		
6				0		
7			6.5	Possible reworked brown F SAND ; some silt ; some dolostone footer wall blocks ; little SR gravel ; moist	0	
8					0	
9			9.5	Apparent bedrock refusal at 9.5 feet bgs	0	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

DEPTH (FT)			ADDITIONAL NOTES:	
WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED
Date	Time	Elapsed Time		
NA	NA	NA	9.5	NA

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

BGS = Below Ground Surface and = 35 - 50% C = Coarse R = Rounded
 NA = Not Applicable some = 20 - 35% M = Medium A = Angular
 little = 10 - 20% F = Fine SR = Subrounded
 trace = 1 - 10% VF = Very Fine SA = Subangular



BORING LOG

Boring No. YS-MW-2023-01

Sheet 1 of 1

Project No.: 2230119

Project Name: Phase II ESA - Subtask 1.2

CHKD BY:

Location: 42 York Street, Rochester, New York

Start Date: 7/17/2023

Client: City of Rochester / NYSDEC / EPA

Finish Date: 7/17/2023

Drilling Firm: LaBella LLC

Driller: Mike / Matt Pepe

Key:	Drill Rig: Geoprobe 7822DT	Core Type: Auger
_____ Geologic Strata Change	Casing: 4.25" interior / 8" exterior diameter auger	Time Start: 840
- - - - - Gradation Change Within Strata	Sampler: Macro-Core - 5ft length, 2 in diameter	Time End: 1100
_____ End of Boring or Overpacked	Sampling Method: Direct Push	LaBella Rep.: A. daSilva
Boring Location:	Hammer:	Other:

Depth (ft)	Sample ID	Depth of Change (ft)	VISUAL-MANUAL MATERIAL DESCRIPTION	PID (parts per million)	COMMENTS (e.g., Native, core run, RQD, % recovered)
1		0.25	Asphalt	0	possible background
		0.75	Asphalt Subbase gravel	0	
2			F brown SAND ; some silt ; little SR-SA gravel (limestone & red sandstone); trace clay (little placity) ; moist	0	
3				0	
4				0	
5				0	
6				0	
7				0	
8				0.1	
9		8.83		0	
		9.5	Start of weathered bedrock between 8.83 and 9-ft bgs	0	
10			Apparent competent Bedrock	0	
11			Augered to approximately 11-ft bgs		
12					
13					
14					
15					
16					
17					
18					
19					
20					

WATER LEVEL DATA			DEPTH (FT)			ADDITIONAL NOTES: Observations taken from auger cuttings. YS-MW-2023-01 monitoring well installed with 8-ft of screen and 2.62-ft of riser. Well installed with flush mount road box.
Date	Time	Elapsed Time	BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	
7/17/2023	1120	45 minutes	11	11	6.52	

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

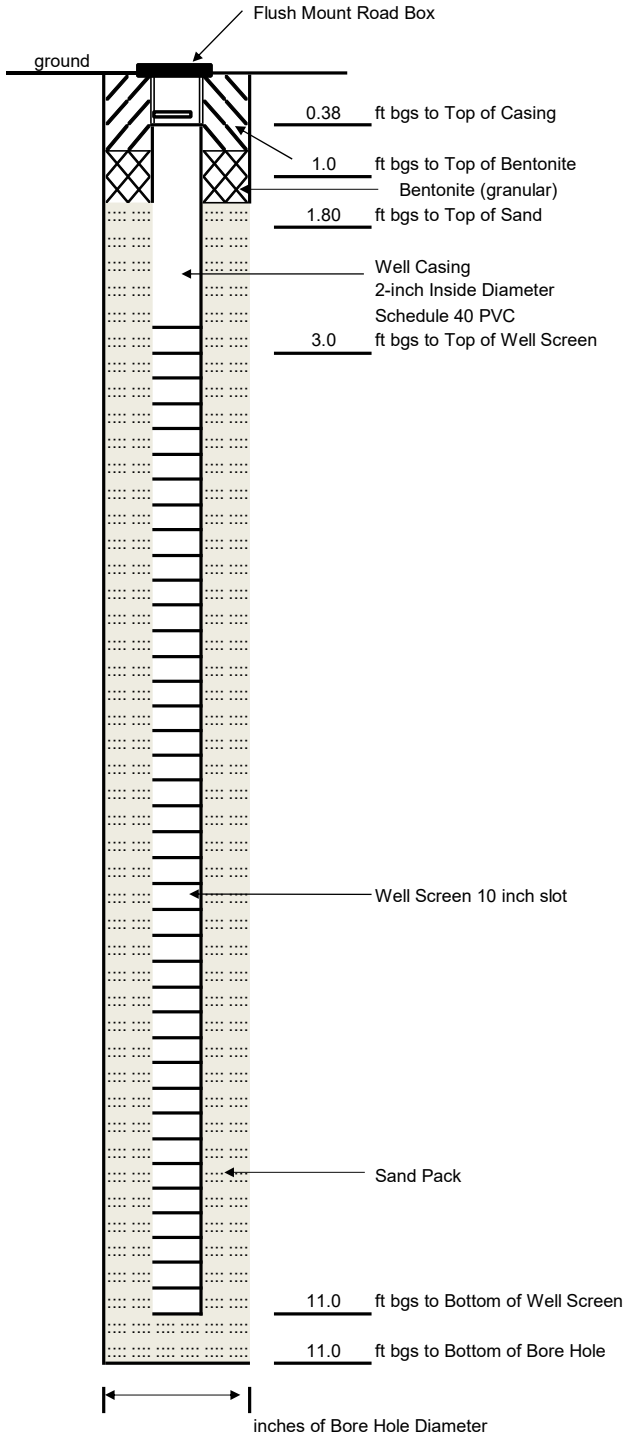
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

BGS = Below Ground Surface and = 35 - 50% C = Coarse R = Rounded
 NA = Not Applicable some = 20 - 35% M = Medium A = Angular
 BC = Blow counts per 6" sampler little = 10 - 20% F = Fine SR = Subrounded
 NR = No Sample Recovery trace = 1 - 10% VF = Very Fine SA = Subangular

BORING: YS-MW-2023-01

WELL CONSTRUCTION LOG

Well ID.: **YS-MW-2023-01**



Project: Phase II ESA - 42 York Street

Address: 42 York Street

Town/City: City of Rochester **State:** New York

Project No. 2230119 **County:** Monroe

Installation Date: July 17, 2023

Drilling Method: Hollow Stem Auger

Drilling Contractor: LaBella ENV, LLC **Driller:** M. Pepe

Drill Rig: Geoprobe 7822DT

Drilling Fluid: None

Datum: NAVD 88 **Elevation:** 534.74 ft TOC

Well Development Information

Finished with protective flush mount well cover, j-plug

Turbid at first, clear after three gallons of water purged, no odors

Static Water Level: 6.52 feet from top of casing/ground/other

Fluid Lost During Drilling: None gallons

Water Removed During Development: ~5 gallons

Date(s) of Development: July 19, 2023

Purging Method: Submersible pump **Sampling Method:** Low Flow (Bladder)

Well Cover Size/Tools Needed to Open: Socket Wrench 5/16"

Notes: ft = feet, bgs = below the ground surface

Weathered bedrock encountered between 8.83ft to 9ft bgs.

8ft of screen was installed.

Oversight By: LaBella Associates (A. daSilva)

Development By: Lu Engineers

Groundwater Development Field Record

 Project Name 42 York St.
 Location ID YS-MW-2023-01
 Activity Time 9:15am

 Field Sample ID N/A
 Sample Time N/A

 Job # 4262
 Sampling Event # __
 Date 07/19/2023

SAMPLING NOTES

 Initial Depth to Water 5.71 feet Measurement Point TOR
 Final Depth to Water Dry feet Well Depth 10.51 feet
 Screen Length 8 feet Pump Intake Depth _____
 Total Volume Purged 5 gallons PID Well Head _____

 Well Diameter 2"
 Well Integrity:
 Cap Yes
 Casing Yes
 Locked Yes
 Collar Yes

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
 Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth
 One well volume = 0.78 gallons, Three well volumes = 2.35 gallons

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
Parameters were not collected as per the QAPP Subtask 1.2									

 Purge Observations: Turbid at first, clear after 3-gallons of water purged, development ceased after 5-gallons purged, at which point well was completely dry, no odors.

 Purge Water Containerized: Yes, new drum provided by client.

EQUIPMENT DOCUMENTATION

 Type of Pump: Submersible Pump
 Type of Tubing: 1/4" HDPE
 Type of Water Quality Meter: N/A

 Calibrated: N/A

ANALYTICAL PARAMETERS

<u>Parameter</u>	<u>Volumes</u>	<u>Sample Collected</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

LOCATION NOTES

 Signature: Klajdi Macolli
 Checked By: _____

Groundwater Sampling Field Record

Project Name 42 York St. Job # 4262
 Location ID YS-MW-2023-01 Field Sample ID YS-MW-2023-01 072623 Sampling Event # -
 Activity Time 9:50 Sample Time 10:45 Date 7/26/23

SAMPLING NOTES

Initial Depth to Water 4.90 feet Measurement Point TOR Well Diameter 2"
 Final Depth to Water 5.10 feet Well Depth 10.61 feet Well Integrity: _____
 Screen Length _____ feet Pump Intake Depth ~ 7 feet Cap
 Total Volume Purged ~ 1 gallons PID Well Head _____ Casing
 [purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter] Locked
 Volume of Water in casing - 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth Collar

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
9:55	4.90		20.5	7.54	6.62	163.41	0.681	125.9	
10:00	4.90		21.1	7.51	6.89	149.67	0.678	131.8	
10:05	5.10		21.2	7.52	6.99	140.51	0.681	134.2	
10:10	5.10		21.4	7.48	7.23	91.74	0.679	139.3	
10:15	5.10		21.3	7.44	7.28	81.61	0.677	140.1	
10:20	5.10		21.3	7.42	7.03	48.76	0.675	145.1	
10:25	5.10		21.4	7.41	7.27	24.18	0.674	148.6	
10:30	5.10		21.3	7.40	7.28	22.17	0.671	154.1	
10:35	5.10		21.2	7.40	7.29	18.62	0.674	153.7	
10:40	5.10		21.1	7.43	7.30	16.73	0.678	151.9	

Purge Observations: Clear water
 Purge Water Containerized: Yes

EQUIPMENT DOCUMENTATION

Type of Pump: Bladder Pump
 Type of Tubing: 1/4" HDPE
 Type of Water Quality Meter: YSI ProDSS

Calibrated: Yes

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
TCL/CP-SVOCs	3x40mL	<input checked="" type="checkbox"/>
TCL/CP-SVOCs	2x1000mL	<input checked="" type="checkbox"/>
TAL Metals	1x250mL	<input checked="" type="checkbox"/>

LOCATION NOTES

Signature: [Signature]
 Checked By: _____

Groundwater Sampling Field Record

 Project Name 42 York St.
 Location ID MW-01
 Activity Time 12:10

 Field Sample ID MW-01 072623
 Sample Time 13:10

 Job # 4262
 Sampling Event #
 Date 7/26/23

SAMPLING NOTES

 Initial Depth to Water 4.89 feet
 Final Depth to Water 5.31 feet
 Screen Length feet
 Total Volume Purged ~3.75 gallons
 Measurement Point TOR
 Well Depth 10.38 feet
 Pump Intake Depth ~7 feet
 PID Well Head

 Well Diameter 2"
 Well Integrity:
 Cap
 Casing
 Locked
 Collar

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]

Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
12:15	4.89		18.3	6.82	2.18	70.60	0.334	126.6	
12:20	4.89		18.2	6.85	2.33	58.16	0.318	123.5	
12:25	4.89		18.1	6.86	2.23	51.17	0.316	121.6	
12:30	5.07		17.9	6.82	1.93	38.65	0.328	119.7	
12:35	5.07		17.9	6.83	1.87	27.15	0.336	117.6	
12:40	5.16		17.9	6.84	1.69	22.09	0.339	117.7	
12:45	5.21		17.8	6.83	1.66	20.61	0.344	117.1	
12:50	5.31		17.9	6.82	1.41	19.06	0.358	114.2	
12:55	5.31		17.8	6.83	1.37	16.19	0.357	113.6	
13:00	5.31		17.9	6.81	1.34	13.06	0.359	112.3	
13:05	5.31		17.9	6.83	1.36	12.01	0.361	111.9	

 Purge Observations: Orange-ish water

 Purge Water Containerized: Yes

EQUIPMENT DOCUMENTATION

 Type of Pump: Bladder Pump
 Type of Tubing: 1/4" HDPE
 Type of Water Quality Meter: YSI ProDSS

 Calibrated: Yes

ANALYTICAL PARAMETERS

Parameter Volumes Sample Collected

TCL/CP-SIVOCs	3x40ml	<input checked="" type="checkbox"/>
TCL/CP-SI SIVOCs	2x1000ml	<input checked="" type="checkbox"/>
TAL Metals	1x250ml	<input checked="" type="checkbox"/>

LOCATION NOTES

 Signature: [Signature]
 Checked By:



APPENDIX 3

Photo Log



Fill Layer



DESCRIPTION: TP-01

DATE: 7/11/2023



DESCRIPTION: TP-02 (no urban fill identified)

DATE: 7/11/2023



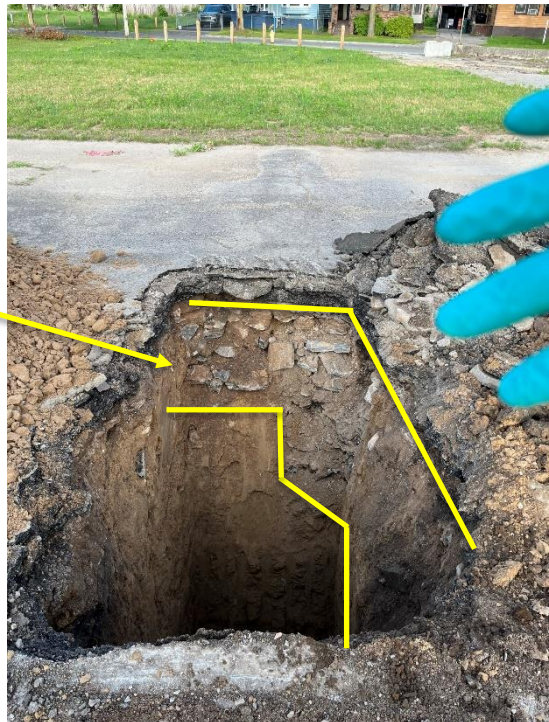
Fill Layer



DESCRIPTION: TP-03

DATE: 7/11/2023

Fill Layer



DESCRIPTION: TP-04

DATE: 7/12/2023



Fill Layer



DESCRIPTION: TP-05

DATE: 7/12/2023

Fill Layer



DESCRIPTION: TP-06

DATE: 7/12/2023



Fill Layer



DESCRIPTION: TP-07

DATE: 7/12/2023

Fill Layer



DESCRIPTION: TP-08 (note: possible urban fill from 2 - 7 feet bgs
Brown F SAND AND URBAN FILL (little brick, little metal) moist

DATE: 7/12/2023



Fill Layer



DESCRIPTION: TP-09

DATE: 7/11/2023



DESCRIPTION: Installation of monitoring well YS-MW-2023-01

DATE: 7/17/2023



APPENDIX 4

CAMP Data

Upwind Dust Trak Summary

Ph 2 ESA - 42 York St

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak DRX 8533144403	005	07/11/2023	10:49:21	0:05:25:00	0.019	mg/m ³	PM1	0.029	0.000
					0.020	mg/m ³	PM2.5	0.030	0.000
					0.020	mg/m ³	RESP	0.030	0.000
					0.021	mg/m ³	PM10	0.033	0.000
					0.022	mg/m ³	TOTAL	0.037	0.000
DustTrak II 8530162013	001	07/12/2023	18:56:21	0:07:00:00	0.007	mg/m ³	AEROSOL	0.011	0.003
DustTrak II 8530224204	001	07/17/2023	08:31:42	0:02:15:00	0.175	mg/m ³	AEROSOL	0.230	0.086

Downwind Dust Trak Summary
Ph 2 ESA - 42 York St

Instrument [S/N]	Test #	Date	Start Time	Duration dd:hh:mm:ss	Average	Units	Channel	Maximum	Minimum
DustTrak II 8530143326	005	07/11/2023	10:46:29	0:05:00:00	0.032	mg/m ³	AEROSOL	0.036	0.029
DustTrak II 8530143326	006	07/12/2023	07:09:53	0:06:45:00	0.017	mg/m ³	AEROSOL	0.023	0.012
DustTrak II 8530162013	001	07/17/2023	20:25:39	0:02:15:00	0.164	mg/m ³	AEROSOL	0.210	0.083

Upwind Dust Trak Data 07/11/2023 Air Monitoring during test pit investigation ID: FA02493, SN: 8533144403
--

Instrument		Data Properties	
Model	DustTrak DRX	Start Date	07/11/2023
Instrument S/N	8533144403	Start Time	10:49:21
		Stop Date	07/11/2023
		Stop Time	16:14:21
		Total Time	0:05:25:00
		Logging Interval	900 seconds

Statistics					
	PM1	PM2.5	RESP	PM10	TOTAL
Avg	0.019 mg/m ³	0.020 mg/m ³	0.020 mg/m ³	0.021 mg/m ³	0.022 mg/m ³
Max	0.029 mg/m ³	0.030 mg/m ³	0.030 mg/m ³	0.033 mg/m ³	0.037 mg/m ³
Max Date	07/11/2023	07/11/2023	07/11/2023	07/11/2023	07/11/2023
Max Time	11:04:21	11:04:21	11:04:21	11:04:21	11:04:21
Min	0.000 mg/m ³	0.000 mg/m ³	0.000 mg/m ³	0.000 mg/m ³	0.000 mg/m ³
Min Date	07/11/2023	07/11/2023	07/11/2023	07/11/2023	07/11/2023
Min Time	16:14:47	16:14:47	16:14:47	16:14:47	16:14:47
TWA (8 hr)	0.013	0.013	0.013	0.014	0.015
TWA Start Date	07/11/2023	07/11/2023	07/11/2023	07/11/2023	07/11/2023
TWA Start Time	10:49:21	10:49:21	10:49:21	10:49:21	10:49:21
TWA End Time	16:14:21	16:14:21	16:14:21	16:14:21	16:14:21

Test Data							
Data Point	Date	Time	PM1 mg/m ³	PM2.5 mg/m ³	RESP mg/m ³	PM10 mg/m ³	TOTAL mg/m ³
1	07/11/2023	11:04:21	0.029	0.030	0.030	0.033	0.037
2	07/11/2023	11:19:21	0.021	0.021	0.021	0.022	0.022
3	07/11/2023	11:34:21	0.020	0.021	0.021	0.022	0.022
4	07/11/2023	11:49:21	0.021	0.021	0.021	0.022	0.022
5	07/11/2023	12:04:21	0.021	0.021	0.022	0.023	0.023
6	07/11/2023	12:19:21	0.024	0.024	0.024	0.026	0.027
7	07/11/2023	16:14:47	0.000	0.000	0.000	0.000	0.000

Upwind Dust Trak Data
07/12/2023
 Air Monitoring during test pit investigation
 ID: FA01479, SN: 8530162013

Instrument		Data Properties	
Model	DustTrak II	Start Date	07/12/2023
Instrument S/N	8530162013	Start Time	18:56:21
		Stop Date	07/13/2023
		Stop Time	01:56:21
		Total Time	0:07:00:00
		Logging Interval	900 seconds

Statistics	
	AEROSOL
Avg	0.007 mg/m ³
Max	0.011 mg/m ³
Max Date	07/12/2023
Max Time	19:11:21
Min	0.003 mg/m ³
Min Date	07/13/2023
Min Time	01:56:21
TWA (8 hr)	0.006
TWA Start Date	07/12/2023
TWA Start Time	18:56:21
TWA End Time	01:56:21

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	07/12/2023	19:11:21	0.011
2	07/12/2023	19:26:21	0.011
3	07/12/2023	19:41:21	0.008
4	07/12/2023	19:56:21	0.007
5	07/12/2023	20:11:21	0.007
6	07/12/2023	20:26:21	0.008
7	07/12/2023	20:41:21	0.008
8	07/12/2023	20:56:21	0.009
9	07/12/2023	21:11:21	0.010
10	07/12/2023	21:26:21	0.008
11	07/12/2023	21:41:21	0.007
12	07/12/2023	21:56:21	0.007
13	07/12/2023	22:11:21	0.007
14	07/12/2023	22:26:21	0.007
15	07/12/2023	22:41:21	0.007
16	07/12/2023	22:56:21	0.006
17	07/12/2023	23:11:21	0.007
18	07/12/2023	23:26:21	0.007
19	07/12/2023	23:41:21	0.007
20	07/12/2023	23:56:21	0.007
21	07/13/2023	00:11:21	0.008

Test Data			
Data Point	Date	Time	AEROSOL mg/m³
22	07/13/2023	00:26:21	0.007
23	07/13/2023	00:41:21	0.008
24	07/13/2023	00:56:21	0.006
25	07/13/2023	01:11:21	0.006
26	07/13/2023	01:26:21	0.006
27	07/13/2023	01:41:21	0.006
28	07/13/2023	01:56:21	0.003

Upwind Dust Trak Data
07/17/2023
 Air Monitoring during well installation
 ID: FA05338, SN: 8530224204

Instrument		Data Properties	
Model	DustTrak II	Start Date	07/17/2023
Instrument S/N	8530224204	Start Time	08:31:42
		Stop Date	07/17/2023
		Stop Time	10:46:42
		Total Time	0:02:15:00
		Logging Interval	900 seconds

Statistics	
	AEROSOL
Avg	0.175 mg/m ³
Max	0.230 mg/m ³
Max Date	07/17/2023
Max Time	08:46:42
Min	0.086 mg/m ³
Min Date	07/17/2023
Min Time	10:46:42
TWA (8 hr)	0.049
TWA Start Date	07/17/2023
TWA Start Time	08:31:42
TWA End Time	10:46:42

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	07/17/2023	08:46:42	0.230
2	07/17/2023	09:01:42	0.218
3	07/17/2023	09:16:42	0.220
4	07/17/2023	09:31:42	0.213
5	07/17/2023	09:46:42	0.205
6	07/17/2023	10:01:42	0.178
7	07/17/2023	10:16:42	0.117
8	07/17/2023	10:31:42	0.112
9	07/17/2023	10:46:42	0.086

Downwind Dust Trak Data
07/11/2023
 Air Monitoring during test pit investigation
 ID: FA01658, SN: 8530143326

Instrument		Data Properties	
Model	DustTrak II	Start Date	07/11/2023
Instrument S/N	8530143326	Start Time	10:46:29
		Stop Date	07/11/2023
		Stop Time	15:46:29
		Total Time	0:05:00:00
		Logging Interval	900 seconds

Statistics	
	AEROSOL
Avg	0.032 mg/m ³
Max	0.036 mg/m ³
Max Date	07/11/2023
Max Time	15:16:29
Min	0.029 mg/m ³
Min Date	07/11/2023
Min Time	15:46:29
TWA (8 hr)	0.020
TWA Start Date	07/11/2023
TWA Start Time	10:46:29
TWA End Time	15:46:29

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	07/11/2023	11:01:29	0.030
2	07/11/2023	11:16:29	0.030
3	07/11/2023	11:31:29	0.030
4	07/11/2023	11:46:29	0.030
5	07/11/2023	12:01:29	0.031
6	07/11/2023	12:16:29	0.031
7	07/11/2023	12:31:29	0.032
8	07/11/2023	12:46:29	0.031
9	07/11/2023	13:01:29	0.032
10	07/11/2023	13:16:29	0.032
11	07/11/2023	13:31:29	0.032
12	07/11/2023	13:46:29	0.033
13	07/11/2023	14:01:29	0.034
14	07/11/2023	14:16:29	0.033
15	07/11/2023	14:31:29	0.032
16	07/11/2023	14:46:29	0.032
17	07/11/2023	15:01:29	0.033
18	07/11/2023	15:16:29	0.036
19	07/11/2023	15:31:29	0.030
20	07/11/2023	15:46:29	0.029

Downwind Dust Trak Data
07/12/2023
 Air Monitoring during test pit investigation
 ID: FA01658, SN: 8530143326

Instrument		Data Properties	
Model	DustTrak II	Start Date	07/12/2023
Instrument S/N	8530143326	Start Time	07:09:53
		Stop Date	07/12/2023
		Stop Time	13:54:53
		Total Time	0:06:45:00
		Logging Interval	900 seconds

Statistics	
	AEROSOL
Avg	0.017 mg/m ³
Max	0.023 mg/m ³
Max Date	07/12/2023
Max Time	13:24:53
Min	0.012 mg/m ³
Min Date	07/12/2023
Min Time	07:39:53
TWA (8 hr)	0.014
TWA Start Date	07/12/2023
TWA Start Time	07:09:53
TWA End Time	13:54:53

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	07/12/2023	07:24:53	0.015
2	07/12/2023	07:39:53	0.012
3	07/12/2023	07:54:53	0.012
4	07/12/2023	08:09:53	0.013
5	07/12/2023	08:24:53	0.014
6	07/12/2023	08:39:53	0.015
7	07/12/2023	08:54:53	0.017
8	07/12/2023	09:09:53	0.018
9	07/12/2023	09:24:53	0.016
10	07/12/2023	09:39:53	0.016
11	07/12/2023	09:54:53	0.016
12	07/12/2023	10:09:53	0.017
13	07/12/2023	10:24:53	0.017
14	07/12/2023	10:39:53	0.016
15	07/12/2023	10:54:53	0.016
16	07/12/2023	11:09:53	0.017
17	07/12/2023	11:24:53	0.018
18	07/12/2023	11:39:53	0.019
19	07/12/2023	11:54:53	0.019
20	07/12/2023	12:09:53	0.020
21	07/12/2023	12:24:53	0.019

Test Data			
Data Point	Date	Time	AEROSOL mg/m³
22	07/12/2023	12:39:53	0.019
23	07/12/2023	12:54:53	0.019
24	07/12/2023	13:09:53	0.019
25	07/12/2023	13:24:53	0.023
26	07/12/2023	13:39:53	0.019
27	07/12/2023	13:54:53	0.016

Downwind Dust Trak Data**07/17/2023**Air Monitoring during well installation
ID: FA01479, SN: 8530162013

Instrument		Data Properties	
Model	DustTrak II	Start Date	07/17/2023
Instrument S/N	8530162013	Start Time	20:25:39
		Stop Date	07/17/2023
		Stop Time	22:40:39
		Total Time	0:02:15:00
		Logging Interval	900 seconds

Statistics	
	AEROSOL
Avg	0.164 mg/m ³
Max	0.210 mg/m ³
Max Date	07/17/2023
Max Time	21:40:39
Min	0.083 mg/m ³
Min Date	07/17/2023
Min Time	22:40:39
TWA (8 hr)	0.046
TWA Start Date	07/17/2023
TWA Start Time	20:25:39
TWA End Time	22:40:39

Test Data			
Data Point	Date	Time	AEROSOL mg/m ³
1	07/17/2023	20:40:39	0.207
2	07/17/2023	20:55:39	0.194
3	07/17/2023	21:10:39	0.196
4	07/17/2023	21:25:39	0.196
5	07/17/2023	21:40:39	0.210
6	07/17/2023	21:55:39	0.182
7	07/17/2023	22:10:39	0.115
8	07/17/2023	22:25:39	0.096
9	07/17/2023	22:40:39	0.083

Upwind PID Data
07/11/2023
Air Monitoring during test pit investigation
ID: FA0339 SN: 592-920884

Current Event: 23/07/11 08:08

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-920884
Unit Firmware Ver V2.22

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID 12345678
User ID 12345678

Begin 7/11/2023 08:08:41
End 7/11/2023 08:34:02
Sample Period(s) 900
Number of Records 1

Sensor PID(ppm)
Sensor SN S023030297A7
Measure Type Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 100.0
TWA Alarm 50.0
Measurement Gas Isobutylene
Calibration Time 7/3/2023 09:35
Peak 0.0
Min 0.0
Average 0.0

Sheet

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
001	7/11/2023 08:23:41	0.0	0.0	0.0
Peak		0.0	0.0	0.0
Min		0.0	0.0	0.0
Average		0.0	0.0	0.0

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	7/11/2023 08:23:41	0.0	0.0

Datalog

Current Event:23/07/11 10:55

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-920884
Unit Firmware Ver V2.22

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID 12345678
User ID 12345678

Begin 7/11/2023 10:55:04
End 7/11/2023 16:04:17
Sample Period(s) 900
Number of Records 20

Sensor PID(ppm)
Sensor SN S023030297A7
Measure Type Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 100.0
TWA Alarm 50.0
Measurement Gas Isobutylene
Calibration Time 7/3/2023 09:35
Peak 0.1
Min 0.0
Average 0.1

Sheet

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
001	7/11/2023 11:10:04	0.0	0.1	0.0
002	7/11/2023 11:25:04	0.0	0.0	0.0
003	7/11/2023 11:40:04	0.0	0.0	0.0
004	7/11/2023 11:55:04	0.0	0.0	0.0
005	7/11/2023 12:10:04	0.0	0.0	0.0
006	7/11/2023 12:25:04	0.0	0.0	0.0
007	7/11/2023 12:40:04	0.0	0.1	0.0
008	7/11/2023 12:55:04	0.0	0.1	0.1
009	7/11/2023 13:10:04	0.1	0.1	0.1
010	7/11/2023 13:25:04	0.1	0.1	0.1
011	7/11/2023 13:40:04	0.1	0.1	0.1
012	7/11/2023 13:55:04	0.1	0.1	0.1
013	7/11/2023 14:10:04	0.1	0.1	0.1
014	7/11/2023 14:25:04	0.1	0.1	0.1
015	7/11/2023 14:40:04	0.1	0.1	0.1
016	7/11/2023 14:55:04	0.1	0.1	0.1
017	7/11/2023 15:10:04	0.1	0.1	0.1
018	7/11/2023 15:25:04	0.1	0.1	0.1
019	7/11/2023 15:40:04	0.1	0.1	0.1
020	7/11/2023 15:55:04	0.1	0.1	0.1
Peak		0.1	0.1	0.1
Min		0.0	0.0	0.0
Average		0.1	0.1	0.1

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	7/11/2023 11:10:04	0.0	0.0
002	7/11/2023 11:25:04	0.0	0.0
003	7/11/2023 11:40:04	0.0	0.0
004	7/11/2023 11:55:04	0.0	0.0
005	7/11/2023 12:10:04	0.0	0.0
006	7/11/2023 12:25:04	0.0	0.0
007	7/11/2023 12:40:04	0.0	0.0
008	7/11/2023 12:55:04	0.0	0.1
009	7/11/2023 13:10:04	0.0	0.2
010	7/11/2023 13:25:04	0.0	0.2
011	7/11/2023 13:40:04	0.0	0.2
012	7/11/2023 13:55:04	0.0	0.2
013	7/11/2023 14:10:04	0.0	0.2
014	7/11/2023 14:25:04	0.0	0.2
015	7/11/2023 14:40:04	0.0	0.2
016	7/11/2023 14:55:04	0.0	0.2
017	7/11/2023 15:10:04	0.0	0.2
018	7/11/2023 15:25:04	0.0	0.2
019	7/11/2023 15:40:04	0.0	0.2
020	7/11/2023 15:55:04	0.0	0.2

Upwind PID Data
07/12/2023
Air Monitoring during test pit investigation
ID: FA0339 SN: 592-920884

Current Event: 23/07/12 07:07

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-920884
Unit Firmware Ver V2.22

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID 12345678
User ID 12345678

Begin 7/12/2023 07:07:59
End 7/12/2023 14:12:43
Sample Period(s) 900
Number of Records 28

Sensor PID(ppm)
Sensor SN S023030297A7
Measure Type Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 100.0
TWA Alarm 50.0
Measurement Gas Isobutylene
Calibration Time 7/3/2023 09:35
Peak 0.1
Min 0.0
Average 0.0

Sheet

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
001	7/12/2023 07:22:59	0.0	0.0	0.0
002	7/12/2023 07:37:59	0.0	0.0	0.0
003	7/12/2023 07:52:59	0.0	0.0	0.0
004	7/12/2023 08:07:59	0.0	0.0	0.0
005	7/12/2023 08:22:59	0.0	0.0	0.0
006	7/12/2023 08:37:59	0.0	0.0	0.0
007	7/12/2023 08:52:59	0.0	0.0	0.0
008	7/12/2023 09:07:59	0.0	0.0	0.0
009	7/12/2023 09:22:59	0.0	0.0	0.0
010	7/12/2023 09:37:59	0.0	0.0	0.0
011	7/12/2023 09:52:59	0.0	0.0	0.0
012	7/12/2023 10:07:59	0.0	0.0	0.0
013	7/12/2023 10:22:59	0.0	0.0	0.0
014	7/12/2023 10:37:59	0.0	0.0	0.0
015	7/12/2023 10:52:59	0.0	0.0	0.0
016	7/12/2023 11:07:59	0.0	0.1	0.0
017	7/12/2023 11:22:59	0.1	0.1	0.1
018	7/12/2023 11:37:59	0.1	0.1	0.1
019	7/12/2023 11:52:59	0.1	0.1	0.1
020	7/12/2023 12:07:59	0.1	0.1	0.1
021	7/12/2023 12:22:59	0.1	0.1	0.1
022	7/12/2023 12:37:59	0.1	0.1	0.1
023	7/12/2023 12:52:59	0.1	0.1	0.1
024	7/12/2023 13:07:59	0.1	0.1	0.1
025	7/12/2023 13:22:59	0.1	0.2	0.1
026	7/12/2023 13:37:59	0.1	0.1	0.1
027	7/12/2023 13:52:59	0.1	0.1	0.1
028	7/12/2023 14:07:59	0.1	0.2	0.1
Peak		0.1	0.2	0.1
Min		0.0	0.0	0.0
Average		0.0	0.1	0.0

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	7/12/2023 07:22:59	0.0	0.0
002	7/12/2023 07:37:59	0.0	0.0
003	7/12/2023 07:52:59	0.0	0.0
004	7/12/2023 08:07:59	0.0	0.0
005	7/12/2023 08:22:59	0.0	0.0
006	7/12/2023 08:37:59	0.0	0.0
007	7/12/2023 08:52:59	0.0	0.0
008	7/12/2023 09:07:59	0.0	0.0
009	7/12/2023 09:22:59	0.0	0.0
010	7/12/2023 09:37:59	0.0	0.0
011	7/12/2023 09:52:59	0.0	0.0
012	7/12/2023 10:07:59	0.0	0.0
013	7/12/2023 10:22:59	0.0	0.0
014	7/12/2023 10:37:59	0.0	0.0
015	7/12/2023 10:52:59	0.0	0.0
016	7/12/2023 11:07:59	0.0	0.0
017	7/12/2023 11:22:59	0.0	0.1
018	7/12/2023 11:37:59	0.0	0.2
019	7/12/2023 11:52:59	0.0	0.2
020	7/12/2023 12:07:59	0.0	0.2
021	7/12/2023 12:22:59	0.0	0.2
022	7/12/2023 12:37:59	0.0	0.2
023	7/12/2023 12:52:59	0.0	0.2
024	7/12/2023 13:07:59	0.0	0.2
025	7/12/2023 13:22:59	0.0	0.2
026	7/12/2023 13:37:59	0.0	0.2
027	7/12/2023 13:52:59	0.0	0.2
028	7/12/2023 14:07:59	0.0	0.2

Upwind PID Data
07/17/2023
Air Monitoring during well installation
ID: FA01020 SN: 592-910729

Current Event: 23/07/17 08:31

Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-910729
Unit Firmware Ver V2.22

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID 12345678
User ID 12345678

Begin 7/17/2023 08:31:10
End 7/17/2023 10:55:31
Sample Period(s) 900
Number of Records 9

Sensor PID(ppm)
Sensor SN S023030071Q5
Measure Type Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 100.0
TWA Alarm 50.0
Measurement Gas Isobutylene
Calibration Time 7/14/2023 14:15
Peak 0.0
Min 0.0
Average 0.0

Sheet

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
001	7/17/2023 08:46:10	0.0	0.0	0.0
002	7/17/2023 09:01:10	0.0	0.0	0.0
003	7/17/2023 09:16:10	0.0	0.0	0.0
004	7/17/2023 09:31:10	0.0	0.0	0.0
005	7/17/2023 09:46:10	0.0	0.0	0.0
006	7/17/2023 10:01:10	0.0	0.0	0.0
007	7/17/2023 10:16:10	0.0	0.0	0.0
008	7/17/2023 10:31:10	0.0	0.0	0.0
009	7/17/2023 10:46:10	0.0	0.0	0.0
Peak		0.0	0.0	0.0
Min		0.0	0.0	0.0
Average		0.0	0.0	0.0

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	7/17/2023 08:46:10	0.0	0.0
002	7/17/2023 09:01:10	0.0	0.0
003	7/17/2023 09:16:10	0.0	0.0
004	7/17/2023 09:31:10	0.0	0.0
005	7/17/2023 09:46:10	0.0	0.0
006	7/17/2023 10:01:10	0.0	0.0
007	7/17/2023 10:16:10	0.0	0.0
008	7/17/2023 10:31:10	0.0	0.0
009	7/17/2023 10:46:10	0.0	0.0

Downwind PID Data
07/11/2023
Air Monitoring during test pit investigation
ID: FA05092 SN: 592-602314

Current Event: 23/07/11 10:51

Summary

Unit Name MiniRAE 3000 +(PGM-7320)
Unit SN 592-602314
Unit Firmware Ver V2.22

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Pause in Menu Mode

Site ID 12345678
User ID 12345678

Begin 7/11/2023 10:51:13
End 7/11/2023 12:25:42
Sample Period(s) 900
Number of Records 6

Sensor PID(ppm)
Sensor SN S023030170B5
Measure Type Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 100.0
TWA Alarm 50.0
Measurement Gas Isobutylene
Calibration Time 6/29/2023 12:01
Peak 0.4
Min 0.1
Average 0.3

Sheet

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
001	7/11/2023 11:06:13	0.0	0.1	0.1
002	7/11/2023 11:21:13	0.2	0.2	0.2
003	7/11/2023 11:36:13	0.3	0.3	0.3
004	7/11/2023 11:51:13	0.3	0.4	0.4
005	7/11/2023 12:06:13	0.4	0.4	0.4
006	7/11/2023 12:21:13	0.4	0.4	0.4
Peak		0.4	0.4	0.4
Min		0.0	0.1	0.1
Average		0.3	0.3	0.3

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	7/11/2023 11:06:13	0.0	0.1
002	7/11/2023 11:21:13	0.0	0.3
003	7/11/2023 11:36:13	0.0	0.5
004	7/11/2023 11:51:13	0.0	0.7
005	7/11/2023 12:06:13	0.0	0.8
006	7/11/2023 12:21:13	0.1	0.8

Datalog

Current Event:23/07/11 12:27

Summary

Unit Name MiniRAE 3000 +(PGM-7320)
Unit SN 592-602314
Unit Firmware Ver V2.22

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID 12345678
User ID 12345678

Begin 7/11/2023 12:27:06
End 7/11/2023 16:01:12
Sample Period(s) 900
Number of Records 14

Sensor PID(ppm)
Sensor SN S023030170B5
Measure Type Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 100.0
TWA Alarm 50.0
Measurement Gas Isobutylene
Calibration Time 6/29/2023 12:01
Peak 0.0
Min 0.0
Average 0.0

Sheet

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
001	7/11/2023 12:42:06	0.0	0.0	0.0
002	7/11/2023 12:57:06	0.0	0.0	0.0
003	7/11/2023 13:12:06	0.0	0.0	0.0
004	7/11/2023 13:27:06	0.0	0.0	0.0
005	7/11/2023 13:42:06	0.0	0.0	0.0
006	7/11/2023 13:57:06	0.0	0.0	0.0
007	7/11/2023 14:12:06	0.0	0.0	0.0
008	7/11/2023 14:27:06	0.0	0.0	0.0
009	7/11/2023 14:42:06	0.0	0.0	0.0
010	7/11/2023 14:57:06	0.0	0.0	0.0
011	7/11/2023 15:12:06	0.0	0.0	0.0
012	7/11/2023 15:27:06	0.0	0.0	0.0
013	7/11/2023 15:42:06	0.0	0.0	0.0
014	7/11/2023 15:57:06	0.0	0.0	0.0
Peak		0.0	0.0	0.0
Min		0.0	0.0	0.0
Average		0.0	0.0	0.0

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	7/11/2023 12:42:06	0.0	0.0
002	7/11/2023 12:57:06	0.0	0.0
003	7/11/2023 13:12:06	0.0	0.0
004	7/11/2023 13:27:06	0.0	0.0
005	7/11/2023 13:42:06	0.0	0.0
006	7/11/2023 13:57:06	0.0	0.0
007	7/11/2023 14:12:06	0.0	0.0
008	7/11/2023 14:27:06	0.0	0.0
009	7/11/2023 14:42:06	0.0	0.0
010	7/11/2023 14:57:06	0.0	0.0
011	7/11/2023 15:12:06	0.0	0.0
012	7/11/2023 15:27:06	0.0	0.0
013	7/11/2023 15:42:06	0.0	0.0
014	7/11/2023 15:57:06	0.0	0.0

Downwind PID Data
07/12/2023
Air Monitoring during test pit investigation
ID: FA05092 SN: 592-602314

Current Event: 23/07/12 07:03

Summary

Unit Name MiniRAE 3000 +(PGM-7320)
Unit SN 592-602314
Unit Firmware Ver V2.22

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID 12345678
User ID 12345678

Begin 7/12/2023 07:03:27
End 7/12/2023 14:09:26
Sample Period(s) 900
Number of Records 28

Sensor PID(ppm)
Sensor SN S023030170B5
Measure Type Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 100.0
TWA Alarm 50.0
Measurement Gas Isobutylene
Calibration Time 6/29/2023 12:01
Peak 0.0
Min 0.0
Average 0.0

Sheet

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
001	7/12/2023 07:18:27	0.0	0.0	0.0
002	7/12/2023 07:33:27	0.0	0.0	0.0
003	7/12/2023 07:48:27	0.0	0.0	0.0
004	7/12/2023 08:03:27	0.0	0.0	0.0
005	7/12/2023 08:18:27	0.0	0.0	0.0
006	7/12/2023 08:33:27	0.0	0.0	0.0
007	7/12/2023 08:48:27	0.0	0.0	0.0
008	7/12/2023 09:03:27	0.0	0.0	0.0
009	7/12/2023 09:18:27	0.0	0.0	0.0
010	7/12/2023 09:33:27	0.0	0.0	0.0
011	7/12/2023 09:48:27	0.0	0.0	0.0
012	7/12/2023 10:03:27	0.0	0.0	0.0
013	7/12/2023 10:18:27	0.0	0.0	0.0
014	7/12/2023 10:33:27	0.0	0.0	0.0
015	7/12/2023 10:48:27	0.0	0.0	0.0
016	7/12/2023 11:03:27	0.0	0.0	0.0
017	7/12/2023 11:18:27	0.0	0.0	0.0
018	7/12/2023 11:33:27	0.0	0.0	0.0
019	7/12/2023 11:48:27	0.0	0.0	0.0
020	7/12/2023 12:03:27	0.0	0.0	0.0
021	7/12/2023 12:18:27	0.0	0.0	0.0
022	7/12/2023 12:33:27	0.0	0.0	0.0
023	7/12/2023 12:48:27	0.0	0.0	0.0
024	7/12/2023 13:03:27	0.0	0.0	0.0
025	7/12/2023 13:18:27	0.0	0.2	0.0
026	7/12/2023 13:33:27	0.0	0.0	0.0
027	7/12/2023 13:48:27	0.0	0.0	0.0
028	7/12/2023 14:03:27	0.0	0.0	0.0
Peak		0.0	0.2	0.0
Min		0.0	0.0	0.0
Average		0.0	0.0	0.0

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	7/12/2023 07:18:27	0.0	0.0
002	7/12/2023 07:33:27	0.0	0.0
003	7/12/2023 07:48:27	0.0	0.0
004	7/12/2023 08:03:27	0.0	0.0
005	7/12/2023 08:18:27	0.0	0.0
006	7/12/2023 08:33:27	0.0	0.0
007	7/12/2023 08:48:27	0.0	0.0
008	7/12/2023 09:03:27	0.0	0.0
009	7/12/2023 09:18:27	0.0	0.0
010	7/12/2023 09:33:27	0.0	0.0
011	7/12/2023 09:48:27	0.0	0.0
012	7/12/2023 10:03:27	0.0	0.0
013	7/12/2023 10:18:27	0.0	0.0
014	7/12/2023 10:33:27	0.0	0.0
015	7/12/2023 10:48:27	0.0	0.0
016	7/12/2023 11:03:27	0.0	0.0
017	7/12/2023 11:18:27	0.0	0.0
018	7/12/2023 11:33:27	0.0	0.0
019	7/12/2023 11:48:27	0.0	0.0
020	7/12/2023 12:03:27	0.0	0.0
021	7/12/2023 12:18:27	0.0	0.0
022	7/12/2023 12:33:27	0.0	0.0
023	7/12/2023 12:48:27	0.0	0.0
024	7/12/2023 13:03:27	0.0	0.0
025	7/12/2023 13:18:27	0.0	0.0
026	7/12/2023 13:33:27	0.0	0.0
027	7/12/2023 13:48:27	0.0	0.0
028	7/12/2023 14:03:27	0.0	0.0

Downwind PID Data
07/17/2023
Air Monitoring during well installation
ID: FA01434 SN: 592-912164

Current Event: 23/07/17 08:25

Summary

Unit Name MiniRAE 3000 +(PGM-7320)
Unit SN 592-912164
Unit Firmware Ver V2.22

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID 12345678
User ID 12345678

Begin 7/17/2023 08:25:10
End 7/17/2023 10:54:55
Sample Period(s) 900
Number of Records 9

Sensor PID(ppm)
Sensor SN S023030496B4
Measure Type Avg; Max; Real
Span 100.0
Span 2 1000.0
Low Alarm 50.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 100.0
TWA Alarm 50.0
Measurement Gas Isobutylene
Calibration Time 7/14/2023 14:14
Peak 0.0
Min 0.0
Average 0.0

Sheet

Index	Date/Time	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
001	7/17/2023 08:40:10	0.0	0.0	0.0
002	7/17/2023 08:55:10	0.0	0.0	0.0
003	7/17/2023 09:10:10	0.0	0.0	0.0
004	7/17/2023 09:25:10	0.0	0.0	0.0
005	7/17/2023 09:40:10	0.0	0.0	0.0
006	7/17/2023 09:55:10	0.0	0.0	0.0
007	7/17/2023 10:10:10	0.0	0.0	0.0
008	7/17/2023 10:25:10	0.0	0.0	0.0
009	7/17/2023 10:40:10	0.0	0.0	0.0
Peak		0.0	0.0	0.0
Min		0.0	0.0	0.0
Average		0.0	0.0	0.0

TWA/STEL

Index	Date/Time	PID(ppm) (TWA)	PID(ppm) (STEL)
001	7/17/2023 08:40:10	0.0	0.0
002	7/17/2023 08:55:10	0.0	0.0
003	7/17/2023 09:10:10	0.0	0.0
004	7/17/2023 09:25:10	0.0	0.0
005	7/17/2023 09:40:10	0.0	0.0
006	7/17/2023 09:55:10	0.0	0.0
007	7/17/2023 10:10:10	0.0	0.0
008	7/17/2023 10:25:10	0.0	0.0
009	7/17/2023 10:40:10	0.0	0.0

42 York St

Upward DustTrak



07/11/23 - 07/12/23

Eco-Rental
Solutions

Accessory Checklist TSI 8533 DustTrak DRX

ASSET # 2493

DATE 6/28/23

TECHNICIAN HS

STANDARD ACCESSORIES

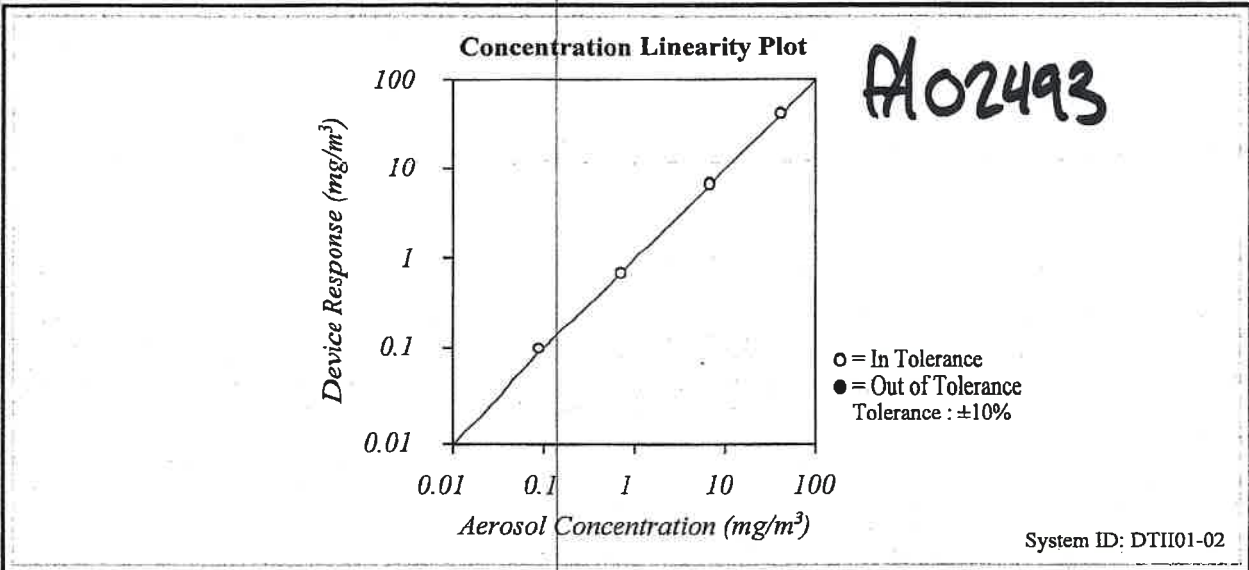
- Carrying Case & Shoulder Strap
- Calibration Certificate
- USB cable
- Operation and Service Manual
- TSI TrakPro Software (Version 4.7.0 or newer)
- AC Adapter with Power Cord
- Stylus
- Impactor Kit:
 - 2.5µm Impactor
 - Impactor Plate
 - Impactor Oil
- Tool Kit:
 - Spanner Wrench
 - 37mm Cartridge Filter Tool
- Spare Internal Paper Filter
- Spare 37mm Cartridge Filter
- 18" Conductive Rubber Tubing (Black)
- Inlet Cap
- Zero Check Filter
- (2) Li-ion Battery Packs

OPTIONAL ACCESSORIES:

- USB Flash Drive

Environment Conditions			Model	8533
Temperature	74.24 (23.5)	°F (°C)	Serial Number	8533144403
Relative Humidity	35.4	%RH		
Barometric Pressure	28.89 (978.3)	inHg (hPa)		

<input checked="" type="checkbox"/> As Left	<input checked="" type="checkbox"/> In Tolerance	
<input type="checkbox"/> As Found	<input type="checkbox"/> Out of Tolerance	



FLOW AND PRESSURE VERIFICATION				SYSTEM DTII01-02			
Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.00	3.06	2.88 ~ 3.12	Pressure kPa	97.8	97.8	92.90 ~ 102.68
Full Flow lpm	N/A	4.48	>3.80				

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass per standard ISO 12103-1, A1 test dust (Arizona dust). Our calibration ratio is greater than 1.2:1

Measurement Variable	System ID	Last Cal.	Cal. Due	Measurement Variable	System ID	Last Cal.	Cal. Due
DC Voltage	E010539	12-05-22	06-30-24	Photometer	E003433	03-21-23	09-30-23
Microbalance	M001324	01-09-23	01-31-25	1 um PSL	698880	n/a	n/a
3 um PSL	264877	n/a	n/a	10 um PSL	266995	n/a	n/a
Pressure	E003511	10-25-22	10-31-23	Flowmeter	E004025	06-24-22	06-30-23
DC Voltage	E003315	01-09-23	01-31-24				

David Farrell

June 12, 2023

Calibrated

Date



424 One St
Dawnwind Dusttrak
07/11/23 - 07/12/23

Accessory Checklist TSI 8530 DustTrak II

ASSET # 1658

DATE 6/27/23

TECHNICIAN HS

STANDARD ACCESSORIES

- Carrying Case & Shoulder Strap
- Calibration Certificate
- USB cable
- Operation and Service Manual
- TSI TrakPro Software (Version 4.7.0 or newer)
- AC Adapter with Power Cord
- Stylus
- Impactor Kit:
 - 1.0, 2.5, 4.0 & 10µm Impactors
 - Impactor Plate
 - Impactor Oil
- Tool Kit:
 - Spanner Wrench
 - 37mm Cartridge Filter Tool
- Spare Internal Paper Filter
- Spare 37mm Cartridge Filter
- Respirable Particle Cyclone
- 18" Conductive Rubber Tubing (Black)
- Inlet Cap
- Zero Check Filter
- (2) Li-ion Battery Packs

OPTIONAL ACCESSORIES:

- USB Flash Drive





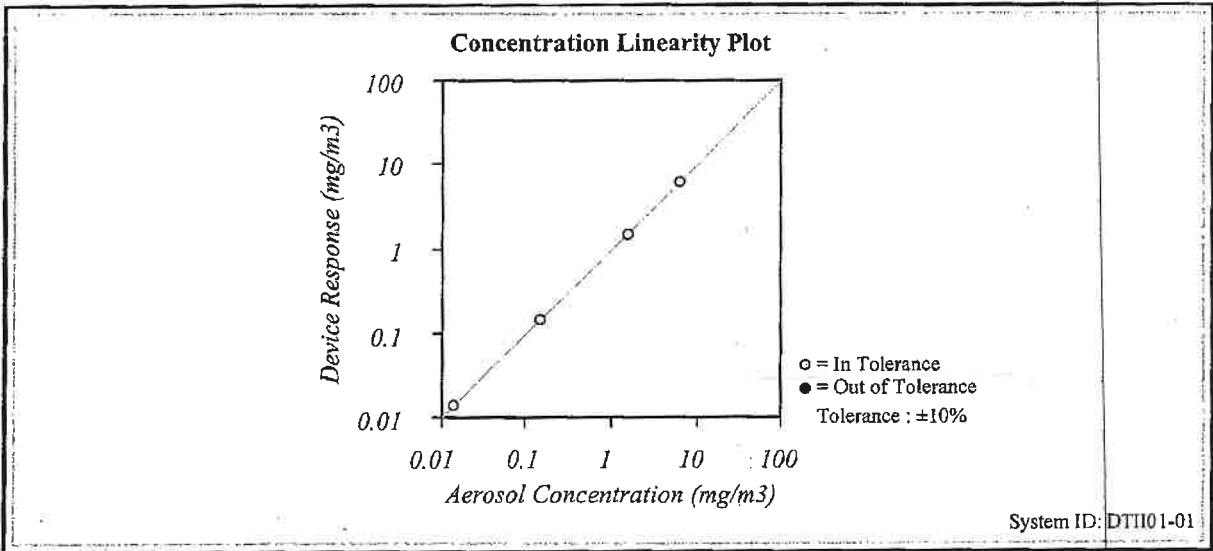
CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
 Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 <http://www.tsi.com>

FA01658

Environment Condition			Model	8530
Temperature	73.4 (23.0)	°F (°C)	Serial Number	8530143326
Relative Humidity	51	%RH		
Barometric Pressure	28.76 (973.9)	inHg (hPa)		

<input checked="" type="checkbox"/> As Left	<input checked="" type="checkbox"/> In Tolerance
<input type="checkbox"/> As Found	<input type="checkbox"/> Out of Tolerance



FLOW AND PRESSURE VERIFICATION				SYSTEM DTH101-01			
Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.1	3.0	2.94 ~ 3.25	Pressure kPa	97.6	97.6	92.71 ~ 102.47

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass of standard ISO 12103-1, A1 test dust (Arizona dust). Our calibration ratio is greater than 1.2:1

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Measurement Variable</th> <th>System ID</th> <th>Last Cal.</th> <th>Cal. Due</th> </tr> </thead> <tbody> <tr> <td>Photometer</td> <td>E003433</td> <td>04-07-14</td> <td>10-07-14</td> </tr> <tr> <td>DC Voltage(Keithley)</td> <td>E002859</td> <td>01-03-14</td> <td>01-03-15</td> </tr> <tr> <td>Barometric Pressure</td> <td>E003733</td> <td>03-27-14</td> <td>03-27-15</td> </tr> <tr> <td>Humidity</td> <td>E002873</td> <td>11-05-13</td> <td>11-05-14</td> </tr> <tr> <td>1 um PSL</td> <td>655458</td> <td>n/a</td> <td>n/a</td> </tr> <tr> <td>10 um PSL</td> <td>42808</td> <td>n/a</td> <td>n/a</td> </tr> </tbody> </table>	Measurement Variable	System ID	Last Cal.	Cal. Due	Photometer	E003433	04-07-14	10-07-14	DC Voltage(Keithley)	E002859	01-03-14	01-03-15	Barometric Pressure	E003733	03-27-14	03-27-15	Humidity	E002873	11-05-13	11-05-14	1 um PSL	655458	n/a	n/a	10 um PSL	42808	n/a	n/a	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Measurement Variable</th> <th>System ID</th> <th>Last Cal.</th> <th>Cal. Due</th> </tr> </thead> <tbody> <tr> <td>Flowmeter</td> <td>E002371</td> <td>03-03-14</td> <td>03-03-15</td> </tr> <tr> <td>Microbalance</td> <td>M001324</td> <td>01-04-13</td> <td>01-04-15</td> </tr> <tr> <td>Temperature</td> <td>E002873</td> <td>11-05-13</td> <td>11-05-14</td> </tr> <tr> <td>Pressure</td> <td>E003440</td> <td>08-08-14</td> <td>08-08-15</td> </tr> <tr> <td>3 um PSL</td> <td>42788</td> <td>n/a</td> <td>n/a</td> </tr> </tbody> </table>	Measurement Variable	System ID	Last Cal.	Cal. Due	Flowmeter	E002371	03-03-14	03-03-15	Microbalance	M001324	01-04-13	01-04-15	Temperature	E002873	11-05-13	11-05-14	Pressure	E003440	08-08-14	08-08-15	3 um PSL	42788	n/a	n/a
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3 um PSL	42788	n/a	n/a																																																		

Juan Cornejo

Calibrated

August 17, 2022

Date

42 York St

upwind PID

07/11/23-07/12/23



Calibration Certificate

rev 8/9/11

Work Order No.: SE-118990

Date of Service: 06/29/23

Order Time: 4:13:38 PM

Unit Under Test: RAE MiniRAE 3000 PID

Asset No.: FA03339 Technician: Haley Steinbruckner

Serial No: 592-920884

Initials: HS

TEST	Specification	Result
Standard Calibration	Pass/Fail	pass

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
100ppm Isobutylene in Air	Lot No. 304-402309681-1 EXP: 06/30/2026	1

TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.



42 YORK ST
UPWARD #10
07/11/23 - 07/12/23

Accessory Checklist RAE MiniRAE 3000

ASSET # 3339

DATE 07/10/2023

TECHNICIAN [Signature]

STANDARD ACCESSORIES

- Hard Case
- Rubber Boot
- Li-Ion Battery Pack
- Flexible Inlet Probe (with external filter attached)
- Two (2) Spare External Filters
- AC Adapter (12V, 1.25A)
- Charging & Communications Module (Choose One)
 - Charging Cradle with USB Cable
 - Travel Charger with USB A to Male DB9 Serial Converter Cable
- Basic Operation Pocket Reference Guide
- Flash drive including:
 - MiniRAE User's Guide
 - ProRAE Studio II Software (V1.11.8)
- Tool Kit Includes:
 - Zeroing Filter Assembly OR Inlet Adapter for VOC Zeroing with VOC Zeroing Tube
 - 5" length #1 Phillips Head Screw Driver
 - 2mm Hex Key Wrench
 - Spare Porous Metal Filter (sealed)
- Alkaline Battery Adapter (Empty)
- Four (4) AA Alkaline Batteries for Alkaline Battery Adapter (Sealed and Dated)
- Calibration Certificate

LAMP INSTALLED

- 9.8 eV
- 10.6 eV
- 11.7 eV

OPTIONAL ACCESSORIES:

- Male Thread Loaner Gas Regulator: Flow Rate _____ lpm
- Female Thread Loaner Gas Regulator: Flow Rate _____ lpm
- 12" length of 3/16" x 5/16" vinyl tubing
- Air Outlet Adapter including 6" length of 1/8" x 1/4" vinyl tubing
- Lamp Cleaning Kit



42 YORK ST PROJECT
DW PID
07/11-07/12/23



Calibration Certificate

rev 8/9/11

Work Order No.: SE-118967
Date of Service: 06/29/23
Order Time: 12:13:43 PM

Unit Under Test: RAE MiniRAE 3000 PID

Asset No.: FA05092 Technician: Haley Steinbruckner
Serial No: 592-602314

Initials: HS

TEST	Specification	Result
Standard Calibration	Pass/Fail	pass

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
100ppm Isobutylene in Air	Lot No. 304-402309681-1 EXP: 06/30/2026	1

TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.

42 YORK ST PROJECT

DW PID

07/11-07/12/23



Accessory Checklist RAE MiniRAE 3000

ASSET # 5092

DATE 07/13/2023

TECHNICIAN [Signature]

STANDARD ACCESSORIES

- Hard Case
- Rubber Boot
- Li-Ion Battery Pack
- Flexible Inlet Probe (with external filter attached)
- Two (2) Spare External Filters
- AC Adapter (12V, 1.25A)
- Charging & Communications Module (Choose One)
 - Charging Cradle with USB Cable
 - Travel Charger with USB A to Male DB9 Serial Converter Cable
- Basic Operation Pocket Reference Guide
- Flash drive including:
 - MiniRAE User's Guide
 - ProRAE Studio II Software (V1.11.8)
- Tool Kit Includes:
 - Zeroing Filter Assembly OR Inlet Adapter for VOC Zeroing with VOC Zeroing Tube
 - 5" length #1 Phillips Head Screw Driver
 - 2mm Hex Key Wrench
 - Spare Porous Metal Filter (sealed)
- Alkaline Battery Adapter (Empty)
- Four (4) AA Alkaline Batteries for Alkaline Battery Adapter (Sealed and Dated)
- Calibration Certificate

LAMP INSTALLED

- 9.8 eV
- 10.6 eV
- 11.7 eV

OPTIONAL ACCESSORIES:

- Male Thread Loaner Gas Regulator: Flow Rate _____ lpm
- Female Thread Loaner Gas Regulator: Flow Rate _____ lpm
- 12" length of 3/16" x 5/16" vinyl tubing
- Air Outlet Adapter including 6" length of 1/8" x 1/4" vinyl tubing
- Lamp Cleaning Kit



Calibration Certificate

rev 8/9/11

Work Order No.: SE-118993
 Date of Service: 06/29/23
 Order Time: 5:06:33 PM

Unit Under Test: RAE MiniRAE 3000 PID

Asset No.: FA04962
 Serial No:

Technician: Grant Gifford

Initials: GG

TEST	Specification	Result
Standard Calibration	Pass/Fail	Pass

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
100ppm Isobutylene in Air	Lot No. 304-402309681-1 EXP: 06/30/2026	1

TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.



U2 York SR
Handheld PID
07/11/23 - 07/12/23

Accessory Checklist RAE MiniRAE 3000

ASSET # 4962

DATE 08/03/2025

TECHNICIAN [Signature]

STANDARD ACCESSORIES

- Hard Case
- Rubber Boot
- Li-Ion Battery Pack
- Flexible Inlet Probe (with external filter attached)
- Two (2) Spare External Filters
- AC Adapter (12V, 1.25A)
- Charging & Communications Module (Choose One)
 - Charging Cradle with USB Cable
 - Travel Charger with USB A to Male DB9 Serial Converter Cable
- Basic Operation Pocket Reference Guide
- Flash drive including:
 - MIniRAE User's Guide
 - ProRAE Studio II Software (V1.11.8)
- Tool Kit Includes:
 - Zeroing Filter Assembly **OR** Inlet Adapter for VOC Zeroing with VOC Zeroing Tube
 - 5" length #1 Phillips Head Screw Driver
 - 2mm Hex Key Wrench
 - Spare Porous Metal Filter (sealed)
- Alkaline Battery Adapter (Empty)
- Four (4) AA Alkaline Batteries for Alkaline Battery Adapter (Sealed and Dated)
- Calibration Certificate

LAMP INSTALLED

- 9.8 eV
- 10.6 eV
- 11.7 eV

OPTIONAL ACCESSORIES:

- Male Thread Loaner Gas Regulator: Flow Rate _____ lpm
- Female Thread Loaner Gas Regulator: Flow Rate _____ lpm
- 12" length of 3/16" x 5/16" vinyl tubing
- Air Outlet Adapter including 6" length of 1/8" x 1/4" vinyl tubing
- Lamp Cleaning Kit



42 York St
Upwind Dust track
02/17/23

Accessory Checklist TSI 8530 DustTrak II

ASSET # 5388 DATE 2/14/23 TECHNICIAN HS

STANDARD ACCESSORIES

- Carrying Case & Shoulder Strap
- Calibration Certificate
- USB cable
- Operation and Service Manual
- TSI TrakPro Software (Version 4.7.0 or newer)
- AC Adapter with Power Cord
- Stylus
- Impactor Kit:
 - 1.0, 2.5, 4.0 & 10µm Impactors
 - Impactor Plate
 - Impactor Oil
- Tool Kit:
 - Spanner Wrench
 - 37mm Cartridge Filter Tool
- Spare Internal Paper Filter
- Spare 37mm Cartridge Filter
- Respirable Particle Cyclone
- 18" Conductive Rubber Tubing (Black)
- Inlet Cap
- Zero Check Filter
- (2) Li-ion Battery Packs

OPTIONAL ACCESSORIES:

- USB Flash Drive

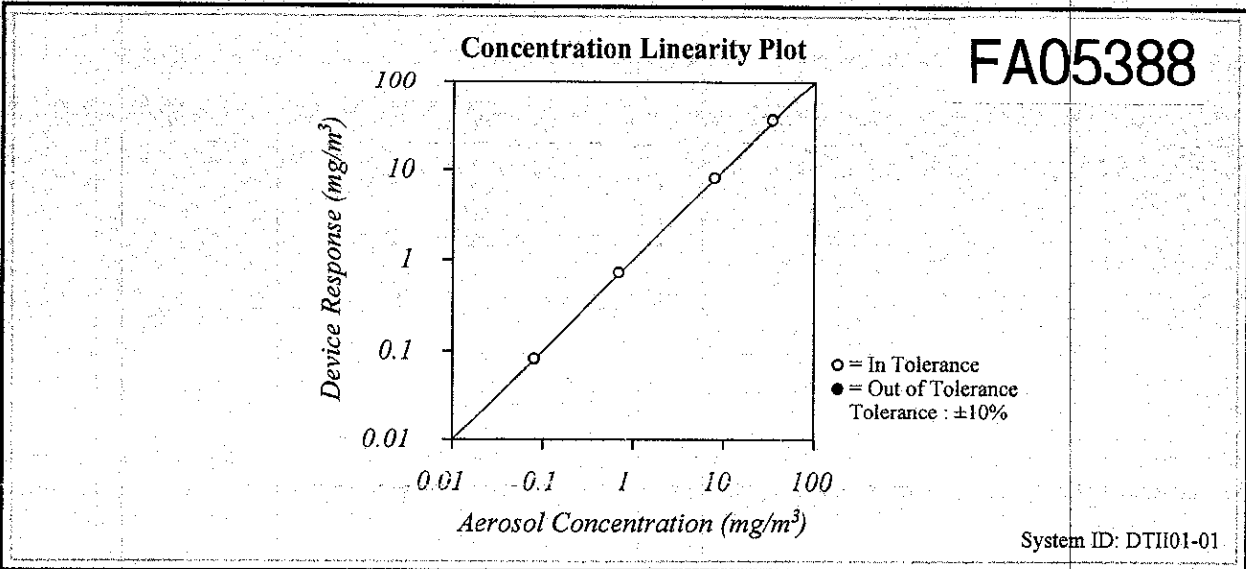


CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

Environment Conditions			Model	8530
Temperature	77.16 (25.1)	°F (°C)	Serial Number	8530224204
Relative Humidity	42.2	%RH		
Barometric Pressure	28.62 (969.2)	inHg (hPa)		

- As Left In Tolerance
 As Found Out of Tolerance



FLOW AND PRESSURE VERIFICATION				SYSTEM DTH01-01			
Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.00	3.05	2.88 ~ 3.12	Pressure kPa	96.7	96.7	91.88 ~ 101.55
Full Flow lpm	N/A	4.43	>3.80				

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass per standard ISO 12103-1, A1 test dust (Arizona dust). Our calibration ratio is greater than 1.2:1

Measurement Variable	System ID	Last Cal.	Cal. Due	Measurement Variable	System ID	Last Cal.	Cal. Due
Photometer	E003433	09-27-22	03-31-23	Flowmeter	E003149	07-11-22	07-31-23
DC Voltage(Keithley)	E002859	06-08-22	06-30-23	Microbalance	M001324	01-29-21	01-31-23
Pressure	E005651	07-21-22	07-31-23	1 um PSL	698880	n/a	n/a
3 um PSL	655484	n/a	n/a	10 um PSL	247067	n/a	n/a

October 11, 2022

Pahover Lee
Calibrated

Date



U2 year or
downwind DustTrak
07/17/23

Accessory Checklist TSI 8530 DustTrak II

ASSET # 1479 DATE 7/14/23 TECHNICIAN HS

STANDARD ACCESSORIES

- Carrying Case & Shoulder Strap
- Calibration Certificate
- USB type A to type B cable
- Operation and Service Manual
- TSI TrakPro Software (Version 4.7.0 or newer)
- AC Adapter with Power Cord
- Stylus
- Inlet Kit:
 - Inlet Cap
 - 18" Conductive Rubber Tubing (Black)
 - Respirable Particle Cyclone
- Impactor Kit:
 - 1.0, 2.5, 4.0 & 10µm Impactors
 - Impactor Plate
 - Impactor Oil
- Filter Replacement Tool Kit:
 - Spanner Wrench
 - 37mm Cartridge Filter Tool
 - Spare Internal Paper Filter
 - Spare 37mm Cartridge Filter
- Zero Check Filter
- (2) Li-ion Battery Packs

OPTIONAL ACCESSORIES:

- USB Flash Drive

FA01479

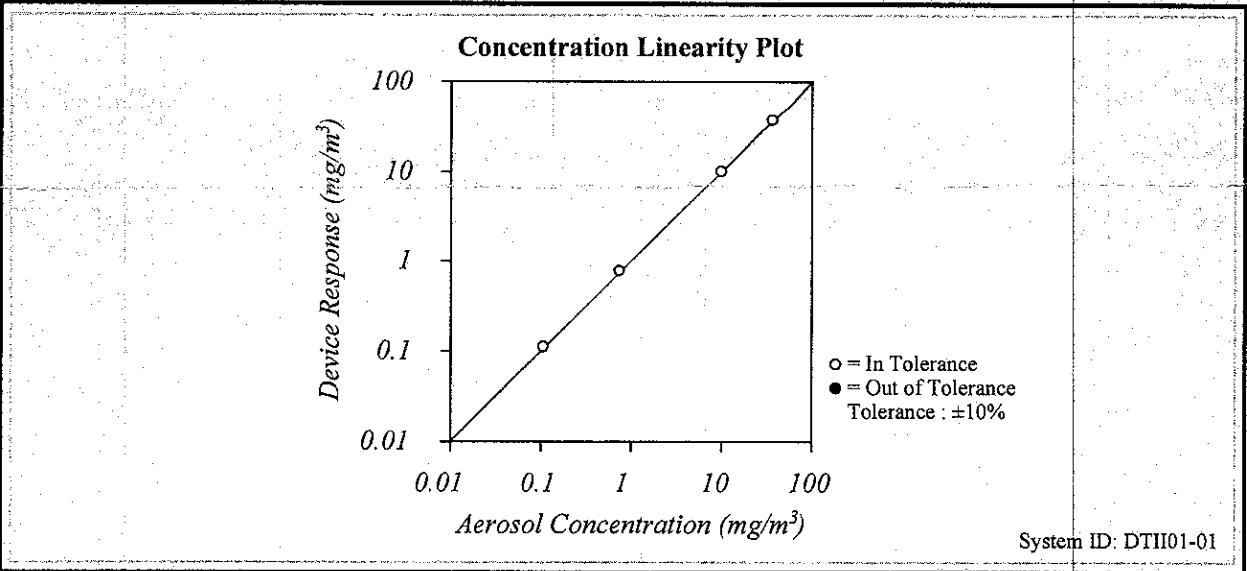


CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
 Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

Environment Conditions			Model	8530
Temperature	73.79 (23.2)	°F (°C)	Serial Number	8530142611
Relative Humidity	48.0	%RH		
Barometric Pressure	28.85 (977.0)	inHg (hPa)		

As Left In Tolerance
 As Found Out of Tolerance

FLOW AND PRESSURE VERIFICATION				SYSTEM DTHI01-01			
Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.00	3.05	2.88 ~ 3.12	Pressure kPa	97.6	97.6	92.70 ~ 102.46
Full Flow lpm	N/A	3.95	>3.80				

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass per standard ISO 12103-1, A1 test dust (Arizona dust). Our calibration ratio is greater than 1.2:1

Measurement Variable	System ID	Last Cal.	Cal. Due	Measurement Variable	System ID	Last Cal.	Cal. Due
Photometer	E003319	03-17-23	09-30-23	Flowmeter	E004570	06-05-23	06-30-24
DC Voltage(Keithley)	E002455	06-13-23	06-30-24	Microbalance	M001324	01-09-23	01-31-25
Pressure	E005651	07-24-23	07-31-24	1 um PSL	698880	n/a	n/a
3 um PSL	702200	n/a	n/a	10 um PSL	266995	n/a	n/a

David Farrell

August 10, 2023

Calibrated

Date



Calibration Certificate

rev 8/9/11

Work Order No.: SE-119552
 Date of Service: 07/14/23
 Order Time: 2:27:15 PM

Unit Under Test: RAE MiniRAE 3000 PID

Asset No.: FA01020 Technician: Haley Steinbruckner
 Serial No: 592-910729

Initials: HS

TEST	Specification	Result
Standard Calibration	Pass/Fail	pass

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
100ppm Isobutylene in Air	Lot No. 304-402309681-1 EXP: 06/30/2026	1

TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.



Accessory Checklist RAE MiniRAE 3000

ASSET # 1020 DATE 7/14/23 TECHNICIAN HS

STANDARD ACCESSORIES

- Hard Case
- Rubber Boot
- Li-Ion Battery Pack
- Flexible Inlet Probe (with external filter attached)
- Two (2) Spare External Filters
- AC Adapter (12V, 1.25A)
- Charging & Communications Module (Choose One)
 - Charging Cradle with USB Cable
 - Travel Charger with USB A to Male DB9 Serial Converter Cable
- Basic Operation Pocket Reference Guide
- Flash drive including:
 - MiniRAE User's Guide
 - ProRAE Studio II Software (V1.11.8)
- Tool Kit Includes:
 - Zeroing Filter Assembly **OR** Inlet Adapter for VOC Zeroing with VOC Zeroing Tube
 - 5" length #1 Phillips Head Screw Driver
 - 2mm Hex Key Wrench
 - Spare Porous Metal Filter (sealed)
- Alkaline Battery Adapter (Empty)
- Four (4) AA Alkaline Batteries for Alkaline Battery Adapter (Sealed and Dated)
- Calibration Certificate

LAMP INSTALLED

- 9.8 eV
- 10.6 eV
- 11.7 eV

OPTIONAL ACCESSORIES:

- Male Thread Loaner Gas Regulator: Flow Rate _____ lpm
- Female Thread Loaner Gas Regulator: Flow Rate _____ lpm
- 12" length of 3/16" x 5/16" vinyl tubing
- Air Outlet Adapter including 6" length of 1/8" x 1/4" vinyl tubing
- Lamp Cleaning Kit

DW PID - 07/17/23 (use)



Calibration Certificate

rev 8/9/11

Work Order No.: SE-119553

Date of Service: 07/14/23

Order Time: 2:28:23 PM

Unit Under Test: RAE MiniRAE 3000 PID

Asset No.: FA01434 Technician: Haley Steinbruckner

Serial No: 592-912164

Initials: HS

TEST	Specification	Result
Standard Calibration	Pass/Fail	pass

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
100ppm Isobutylene in Air	Lot No. 304-402309681-1 EXP: 06/30/2026	1

TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.



Accessory Checklist

RAE MiniRAE 3000

ASSET # 1434 DATE 7/14/23 TECHNICIAN HS

STANDARD ACCESSORIES

- Hard Case
- Rubber Boot
- Li-Ion Battery Pack
- Flexible Inlet Probe (with external filter attached)
- Two (2) Spare External Filters
- AC Adapter (12V, 1.25A)
- Charging & Communications Module (Choose One)
 - Charging Cradle with USB Cable
 - Travel Charger with USB A to Male DB9 Serial Converter Cable
- Basic Operation Pocket Reference Guide
- Flash drive including:
 - MiniRAE User's Guide
 - ProRAE Studio II Software (V1.11.8)
- Tool Kit Includes:
 - Zeroing Filter Assembly **OR** Inlet Adapter for VOC Zeroing with VOC Zeroing Tube
 - 5" length #1 Phillips Head Screw Driver
 - 2mm Hex Key Wrench
 - Spare Porous Metal Filter (sealed)
- Alkaline Battery Adapter (Empty)
- Four (4) AA Alkaline Batteries for Alkaline Battery Adapter (Sealed and Dated)
- Calibration Certificate

LAMP INSTALLED

- 9.8 eV
- 10.6 eV
- 11.7 eV

OPTIONAL ACCESSORIES:

- Male Thread Loaner Gas Regulator: Flow Rate _____ lpm
- Female Thread Loaner Gas Regulator: Flow Rate _____ lpm
- 12" length of 3/16" x 5/16" vinyl tubing
- Air Outlet Adapter including 6" length of 1/8" x 1/4" vinyl tubing
- Lamp Cleaning Kit

Handheld PID (07117123 used)



Calibration Certificate

rev 8/9/11

Work Order No.: SE-119551

Date of Service: 07/14/23

Order Time: 2:25:46 PM

Unit Under Test: RAE MiniRAE 3000 PID

Asset No.: FA03339 Technician: Haley Steinbruckner

Serial No: 592-920884

Initials: HS

TEST	Specification	Result
Standard Calibration	Pass/Fail	pass

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
100ppm Isobutylene in Air	Lot No. 304-402309681-1 EXP: 06/30/2026	1

TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.



Accessory Checklist RAE MiniRAE 3000

ASSET # 3339 DATE 7/14/23 TECHNICIAN HS

STANDARD ACCESSORIES

- Hard Case
- Rubber Boot
- Li-Ion Battery Pack
- Flexible Inlet Probe (with external filter attached)
- Two (2) Spare External Filters
- AC Adapter (12V, 1.25A)
- Charging & Communications Module (Choose One)
 - Charging Cradle with USB Cable
 - Travel Charger with USB A to Male DB9 Serial Converter Cable
- Basic Operation Pocket Reference Guide
- Flash drive including:
 - MiniRAE User's Guide
 - ProRAE Studio II Software (V1.11.8)
- Tool Kit Includes:
 - Zeroing Filter Assembly **OR** Inlet Adapter for VOC Zeroing with VOC Zeroing Tube
 - 5" length #1 Phillips Head Screw Driver
 - 2mm Hex Key Wrench
 - Spare Porous Metal Filter (sealed)
- Alkaline Battery Adapter (Empty)
- Four (4) AA Alkaline Batteries for Alkaline Battery Adapter (Sealed and Dated)
- Calibration Certificate

LAMP INSTALLED

- 9.8 eV
- 10.6 eV
- 11.7 eV

OPTIONAL ACCESSORIES:

- Male Thread Loaner Gas Regulator: Flow Rate _____ lpm
- Female Thread Loaner Gas Regulator: Flow Rate _____ lpm
- 12" length of 3/16" x 5/16" vinyl tubing
- Air Outlet Adapter including 6" length of 1/8" x 1/4" vinyl tubing
- Lamp Cleaning Kit



APPENDIX 5

Laboratory Reports



www.alphalab.com



Alpha Analytical

Laboratory Code: 11148

SDG Number: L2339907

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Table of Contents

New York ASP Category B Data Deliverable Package.....	1
Table of Contents	2
Sample ID Cross Reference	8
SDG Narrative	9
Data Qualifier Definitions	11
Instrument Information	14
Sample Log-in Sheet	17
Lims COC (LN01)	18
External Chain of Custody	20
Organics Analysis	21
GCMS 8260 Analysis	22
Volatiles QC Summary	23
Form 2 - Organics	24
Form 3 - Organics	25
Form 4 - Organics	31
Form 5 - Organics	32
Form 8 - Organics	35
MDL Study - Volatile Organics 8260	36
8260	36
8260HLW	38
Volatiles Sample Data	40
Form 1 - Organics	41
TP-02-3-4FT (L2339907-02) Analyzed: 07/21/23 22:46	73
TP-03-0.5-2 FT (L2339907-03) Analyzed: 07/21/23 23:07	87
TP-04-0.5-2.5 FT (L2339907-04) Analyzed: 07/21/23 23:28	100
TP-05-0.5-2.5 FT (L2339907-05) Analyzed: 07/21/23 23:48	112
TP-06-0.4-3 FT (L2339907-06) Analyzed: 07/22/23 00:09	123
TP-07-2.0-4.5 FT (L2339907-07) Analyzed: 07/22/23 00:30	134
BD-01-3-4 FT (L2339907-09) Analyzed: 07/22/23 00:50	147
Volatile Standards Data	159
Initial Calibration	160
Form 6 - Organics	161
ICAL for VOA129 on 03/09/23 ICAL19799	164
Initial Calibration Summary - Cal Date: 03/09/23 00:00	164
BFB Tune Injected on: 03/08/23 16:14	168
STD2PPB Injected on: 03/08/23 18:23	169
STD4PPB Injected on: 03/08/23 18:44	177
STD20PPB Injected on: 03/08/23 19:04	183
STD40PPB Injected on: 03/08/23 19:25	189
STD100PPB Injected on: 03/08/23 19:46	195
STD200PPB Injected on: 03/08/23 20:07	200
STD300PPB Injected on: 03/08/23 20:28	206
STD0.5PPB Injected on: 03/08/23 23:14	212
STD1PPB Injected on: 03/08/23 23:35	216
BFB Tune Injected on: 03/09/23 17:51	226
ICV Summary Form Injected on: 03/09/23 18:54	227
ICV Quant Report Injected on: 03/09/23 18:54	230
Correlation Data	236
Continuing Calibration	237
Form 7 - Organics	238

Table of Contents

CC Summary - VOA129 Run: 07/21/23 18:37	241
CC Quant - WG1806697-2 VOA129 Run: 07/21/23 18:37	244
bfb tune - Inst. VOA129 07/21/23 18:16	249
Volatiles Raw QC Data	250
Laboratory Method BI (WG1806697-5) Analyzed: 07/21/23 20:00	251
Laboratory Control S (WG1806697-3) Analyzed: 07/21/23 18:57	267
LCS Duplicate (WG1806697-4) Analyzed: 07/21/23 19:18	328
Matrix Spike (WG1806697-6) Analyzed: 07/22/23 03:15	389
Matrix Spike Duplica (WG1806697-7) Analyzed: 07/22/23 03:36	451
Volatiles Calculations	513
QC Batch WG1806697	514
ICAL Sequence for VOA129 on 09-MAR-2023 00:00 ICAL19799	515
230309N.pdf	516
230308N.pdf	515
Instrument VOA129 Run Date 07/21/23 Run ID R1721143	517
Semivolatiles Data - Method 8270	518
Semivolatiles QC Summary	519
Form 2 - Organics	520
Form 3 - Organics	521
Form 4 - Organics	531
Form 5 - Organics	533
Form 8 - Organics	540
MDL Study - ABN Extractables	546
Semivolatiles Sample Data	550
Form 1 - Organics	551
TP-02-3-4FT (L2339907-02) Analyzed: 07/19/23 05:32	596
TP-03-0.5-2 FT (L2339907-03) Analyzed: 07/19/23 06:42	606
TP-05-0.5-2.5 FT (L2339907-05) Analyzed: 07/19/23 07:06	630
TP-06-0.4-3 FT (L2339907-06) Analyzed: 07/19/23 07:29	663
TP-07-2.0-4.5 FT (L2339907-07) Analyzed: 07/19/23 07:53	673
TP-04-0.5-2.5 FT (L2339907-04) Analyzed: 07/20/23 22:42	683
BD-01-3-4 FT (L2339907-09) Analyzed: 07/20/23 22:59	696
Semivolatiles Standards Data	706
Initial Calibration	707
Form 6 - Organics	708
ICAL for SV103 on 05/16/23 ICAL20013	716
Initial Calibration Summary - Cal Date: 05/16/23 00:00	716
DFTPP 1 Injected on: 05/15/23 20:57	719
DEG 1 Injected on: 05/15/23 20:57	720
Tailing Factor 1p Injected on: 05/15/23 20:57	721
Tailing Factor 1b Injected on: 05/15/23 20:57	722
ABNL10 Injected on: 05/15/23 21:20	723
ABNL9 Injected on: 05/15/23 21:43	728
ABNL8 Injected on: 05/15/23 22:07	733
ABNL7 Injected on: 05/15/23 22:30	738
ABNL6 Injected on: 05/15/23 22:53	743
ABNL5 Injected on: 05/15/23 23:17	748
ABNL4 Injected on: 05/15/23 23:40	753
ABNL3 Injected on: 05/16/23 00:03	758
ABNL2 Injected on: 05/16/23 00:27	763

Table of Contents

ABNL1 Injected on: 05/16/23 00:51	768
AP9L10 Injected on: 05/16/23 01:14	773
AP9L9 Injected on: 05/16/23 01:37	776
AP9L8 Injected on: 05/16/23 02:01	779
AP9L7 Injected on: 05/16/23 02:24	782
AP9L6 Injected on: 05/16/23 02:48	785
AP9L5 Injected on: 05/16/23 03:11	788
AP9L4 Injected on: 05/16/23 03:35	791
AP9L3 Injected on: 05/16/23 03:58	794
AP9L2 Injected on: 05/16/23 04:21	797
AP9L1 Injected on: 05/16/23 04:45	800
ABN ICV Summay Form Injected on: 05/16/23 05:08	803
ABN ICV Quant Report Injected on: 05/16/23 05:08	806
AP9 ICV Summary Form Injected on: 05/16/23 05:32	888
AP9 Quant Report Injected on: 05/16/23 05:32	889
DFTPP 2 Injected on: 05/16/23 09:38	906
DEG 2 Injected on: 05/16/23 09:38	907
Tailing Factor 2p Injected on: 05/16/23 09:38	908
Tailing Factor 2b Injected on: 05/16/23 09:38	909
ADPL10b Injected on: 05/16/23 10:02	910
ADPL9b Injected on: 05/16/23 10:25	913
ADPL8b Injected on: 05/16/23 10:49	916
ADPL7b Injected on: 05/16/23 11:12	919
ADPL6b Injected on: 05/16/23 11:35	922
ADPL5b Injected on: 05/16/23 11:59	925
ADPL4b Injected on: 05/16/23 12:22	928
ADPL3b Injected on: 05/16/23 12:45	931
ADPL2b Injected on: 05/16/23 13:09	934
ADPL1b Injected on: 05/16/23 13:32	937
ADP ICV Summary Form Injected on: 05/16/23 13:55	940
ADP ICV Quant Report Injected on: 05/16/23 13:55	941
Relative Error Form	950
ICAL for SV124 on 05/31/23 ICAL20053	951
Initial Calibration Summary - Cal Date: 05/31/23 00:00	951
Tune Injected on: 05/26/23 17:08	954
Deg Injected on: 05/26/23 17:08	955
Tailing Factor p Injected on: 05/26/23 17:08	956
Tailing Factor b Injected on: 05/26/23 17:08	957
ABNL10 Injected on: 05/26/23 17:25	958
ABNL9 Injected on: 05/26/23 17:42	963
ABNL8 Injected on: 05/26/23 17:59	968
ABNL7 Injected on: 05/26/23 18:16	973
ABNL6 Injected on: 05/26/23 18:33	978
ABNL5 Injected on: 05/26/23 18:50	983
ABNL4 Injected on: 05/26/23 19:07	988
ABNL3 Injected on: 05/26/23 19:23	993
ABNL2 Injected on: 05/26/23 19:40	998
ABNL1 Injected on: 05/26/23 19:57	1004
AP9L10 Injected on: 05/26/23 20:14	1009
AP9L9 Injected on: 05/26/23 20:31	1012

Table of Contents

AP9L8 Injected on: 05/26/23 20:47	1015
AP9L7 Injected on: 05/26/23 21:04	1018
AP9L6 Injected on: 05/26/23 21:21	1021
AP9L5 Injected on: 05/26/23 21:37	1024
AP9L4 Injected on: 05/26/23 21:54	1027
AP9L3 Injected on: 05/26/23 22:11	1030
AP9L2 Injected on: 05/26/23 22:27	1033
AP9L1 Injected on: 05/26/23 22:44	1036
ABN ICV Summary Form Injected on: 05/26/23 23:01	1039
ABN ICV Quant Report Injected on: 05/26/23 23:01	1042
AP9 ICV Summary Form Injected on: 05/26/23 23:17	1124
AP9 ICV Quant Report Injected on: 05/26/23 23:17	1125
ADPL10 Injected on: 05/26/23 23:34	1142
ADPL9 Injected on: 05/26/23 23:51	1145
ADPL8 Injected on: 05/27/23 00:08	1148
ADPL7 Injected on: 05/27/23 00:25	1151
ADPL6 Injected on: 05/27/23 00:42	1154
ADPL5 Injected on: 05/27/23 00:59	1157
ADPL4 Injected on: 05/27/23 01:16	1160
ADPL3 Injected on: 05/27/23 01:33	1163
ADPL2 Injected on: 05/27/23 01:50	1166
ADPL1 Injected on: 05/27/23 02:07	1169
ADP ICV Summary Form Injected on: 05/27/23 02:24	1172
ADP ICV Quant Report Injected on: 05/27/23 02:24	1173
Relative Error Page	1182
Continuing Calibration	1183
Form 7 - Organics	1184
CC Summary - SV103 Run: 07/18/23 20:54	1199
CC Quant - WG1804789-5 SV103 Run: 07/18/23 20:54	1200
CC Summary - SV103 Run: 07/18/23 21:19	1209
CC Quant - WG1804789-3 SV103 Run: 07/18/23 21:19	1212
CC Summary - SV103 Run: 07/18/23 21:42	1294
CC Quant - WG1804789-4 SV103 Run: 07/18/23 21:42	1295
DEG Quant for SV103 injected on 07/18/23 20:30	1312
dftpp tune - Inst. SV103 07/18/23 20:30	1313
Tailing factor report for SV103 injected on 07/18/23 20:30	1314
Form 7 - Organics	1316
CC Summary - SV124 Run: 07/19/23 07:10	1331
CC Quant - WG1804924-3 SV124 Run: 07/19/23 07:10	1334
CC Summary - SV124 Run: 07/19/23 07:27	1416
CC Quant - WG1804924-4 SV124 Run: 07/19/23 07:27	1417
CC Summary - SV124 Run: 07/19/23 07:44	1434
CC Quant - WG1804924-5 SV124 Run: 07/19/23 07:44	1435
DEG Quant for SV124 injected on 07/19/23 06:48	1444
dftpp tune - Inst. SV124 07/19/23 06:48	1445
Tailing factor report for SV124 injected on 07/19/23 06:48	1446
Form 7 - Organics	1448
CC Summary - SV124 Run: 07/20/23 18:48	1463
CC Quant - WG1805740-3 SV124 Run: 07/20/23 18:48	1466
CC Summary - SV124 Run: 07/20/23 19:05	1548

Table of Contents

CC Quant - WG1805740-4 SV124 Run: 07/20/23 19:05	1549
CC Summary - SV124 Run: 07/20/23 19:22	1566
CC Quant - WG1805740-5 SV124 Run: 07/20/23 19:22	1567
DEG Quant for SV124 injected on 07/20/23 18:32	1576
dftpp tune - Inst. SV124 07/20/23 18:32	1577
Tailing factor report for SV124 injected on 07/20/23 18:32	1578
Semivolatiles Raw QC Summary	1580
Laboratory Method BI (WG1803858-1) Analyzed: 07/19/23 01:14	1581
Laboratory Method BI (WG1804755-1) Analyzed: 07/19/23 08:08	1591
Laboratory Control S (WG1803858-2) Analyzed: 07/19/23 01:38	1601
Laboratory Control S (WG1804755-2) Analyzed: 07/19/23 08:24	1674
LCS Duplicate (WG1803858-3) Analyzed: 07/19/23 02:01	1746
LCS Duplicate (WG1804755-3) Analyzed: 07/19/23 08:41	1819
Matrix Spike (WG1803858-4) Analyzed: 07/19/23 05:56	1892
Matrix Spike Duplica (WG1803858-5) Analyzed: 07/19/23 06:19	1965
Semivolatiles Calculations	2038
QC Batch WG1803858	2039
QC Batch WG1804755	2040
ICAL Sequence for SV103 on 16-MAY-2023 00:00 ICAL20013	2041
ICAL Sequence for SV124 on 31-MAY-2023 00:00 ICAL20053	2042
Instrument SV103 Run Date 07/18/23 Run ID R1719416	2043
Instrument SV124 Run Date 07/19/23 Run ID R1719530	2044
Instrument SV124 Run Date 07/21/23 Run ID R1720954	2045
Organic ELN-Workgroup:WG1803858	2046
Organic ELN-Workgroup:WG1804755	2048
Metals Analysis	2051
Inorganic Data (ICP Analysis)	2052
Form 1 - Inorganics	2053
Form 2A - Inorganics	2068
Form 3 - Inorganics	2074
Form 4A - Inorganics	2078
Form 5A - Inorganics	2079
Form 5B - Inorganics	2080
Form 7 - Inorganics	2081
Form 8 - Inorganics	2082
Form 10 - Inorganics	2083
Form 11 - Inorganics	2102
Form 12 - Inorganics	2103
Form 13 - Inorganics	2104
MDL Study - Metals by ICP	2106
Run Date 08/02/23 Run ID R1725079	2108
ICP True Value Summary Form	2270
ICP Calculations	2285
Instrument TRACE6 Run Date 08/02/23 Run ID R1725079	2286
Metals ELN-Workgroup:WG1802988	2289
Inorganic Data (Mercury Analysis)	2292
Form 1 - Inorganics	2293
Form 2A - Inorganics	2301
Form 3 - Inorganics	2305
Form 5A - Inorganics	2309

Table of Contents

Form 7 - Inorganics	2310
Form 12 - Inorganics	2311
Form 13 - Inorganics	2313
MDL Study - Mercury by 245.1	2315
MDL Study - Mercury by 7470A	2316
MDL Study - Mercury by 7471B	2317
Run Date 08/04/23 Run ID R1726105	2318
Run Date 08/04/23 Run ID R1726244	2324
Hg True Value Summary Form	2327
HG Calculations	2341
Instrument NIC2 Run Date 08/04/23 Run ID R1726105	2343
Instrument NIC4 Run Date 08/04/23 Run ID R1726244	2347
Metals ELN-Workgroup:WG1802991	2349
Wet Chemistry Analysis	2351
Total Solids Analysis	2352
Results	2353
Form 1 - Inorganics	2354
Sample Raw Data	2363
Wet Chemistry Raw Data	2364
Quality Control	2366
Form 6 - Inorganics	2367

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339907
Report Date: 08/06/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2339907-01	TP-01-3-5 FT	SOIL	42 YORK STREET, ROCHESTER NY	07/11/23 13:10	07/12/23
L2339907-02	TP-02-3-4FT	SOIL	42 YORK STREET, ROCHESTER NY	07/11/23 14:30	07/12/23
L2339907-03	TP-03-0.5-2 FT	SOIL	42 YORK STREET, ROCHESTER NY	07/11/23 15:45	07/12/23
L2339907-04	TP-04-0.5-2.5 FT	SOIL	42 YORK STREET, ROCHESTER NY	07/12/23 08:00	07/12/23
L2339907-05	TP-05-0.5-2.5 FT	SOIL	42 YORK STREET, ROCHESTER NY	07/12/23 09:30	07/12/23
L2339907-06	TP-06-0.4-3 FT	SOIL	42 YORK STREET, ROCHESTER NY	07/12/23 10:40	07/12/23
L2339907-07	TP-07-2.0-4.5 FT	SOIL	42 YORK STREET, ROCHESTER NY	07/11/23 11:45	07/12/23
L2339907-08	TP-08-1-2 FT	SOIL	42 YORK STREET, ROCHESTER NY	07/12/23 12:45	07/12/23
L2339907-09	BD-01-3-4 FT	SOIL	42 YORK STREET, ROCHESTER NY	07/11/23 00:00	07/12/23

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339907
Report Date: 08/06/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339907
Report Date: 08/06/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Semivolatile Organics

L2339907-06 and -07: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

Total Metals

L2339907-02 through -07 and -09: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

The WG1802988-3/-4 MS/MSD recoveries for aluminum (MSD 432%), iron (0%/1040%), and manganese (12%/290%), performed on L2339907-02, do not apply because the sample concentrations are greater than four times the spike amounts added. The MS/MSD RPD for manganese (29%) is above the acceptance criteria. The WG1802988-3/-4 MS/MSD recoveries, performed on L2339907-02, are outside the acceptance criteria for antimony (72%/66%), lead (MS 72%), magnesium (MSD 136%), and zinc (MS 60%). A post digestion spike was performed and was within acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Kelly Stenstrom

Report Date: 08/06/23

Title: Technical Director/Representative

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report with 'J' Qualifiers

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339907
Report Date: 08/06/23

Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers





Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)
 Purge time: 11 min

Columns (length x ID x df):
 RTX-VMS 20m x 0.18mm x 1um
 RTX-VMS 30m x 0.25mm x 1.4um
 RTX-502.2 40m x 0.18mm x 1um

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)

Column Type: Restek RTX 502.2
 Column Length: 105 Meters
 df: 3.00 um
 ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: Tekmar Velocity / EST Encon
 Autosampler: Varian Archon / EST Centurion
 Purge time: 11 min

Column Type: DB-VRX
 Column Length: 60 Meters
 df: 1.40 um
 ID: 0.25 mm
 Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD

Column Type: Haysep S Column
 Column Length: 2 Meters packed
 (100/200 mesh)

Autosampler: LEAP Headspace

Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200
 Autosampler: Entech 7016CA or 7016D

Column Type: Restek RTX-1
 Column Length: 60 Meters
 df: 1.00 um
 ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material

Trap 2: Tenax: manufacturer-Entech: 20 cm packing material



Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.32 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	



Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm



Sample Delivery Group Summary

Alpha Job Number : L2339907

Received : 12-JUL-2023

Reviewer : Mohammed Wahed

Account Name : LaBella Associates, P.C.

Project Number : 2230119

Project Name : PH II INVESTIGATION

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	4.6	
B	Absent/	Ice	5.7	

Condition Information

- | | |
|--|------------|
| 1) All samples on COC received? | YES |
| 2) Extra samples received? | NO |
| 3) Are there any sample container discrepancies? | NO |
| 4) Are there any discrepancies between COC & sample labels? | NO |
| 5) Are samples in appropriate containers for requested analysis? | YES |
| 6) Are samples properly preserved for requested analysis? | YES |
| 7) Are samples within holding time for requested analysis? | YES |
| 8) All sampling equipment returned? | NA |

Volatile Organics/VPH

- | | |
|--|-----------|
| 1) Reagent Water Vials Frozen by Client? | NO |
|--|-----------|

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Aug 06 2023, 06:17 pm

Login Number: L2339907

Account: LABELLA-ROC LaBella Associates, P.C. Project: 2230119

Received: 12JUL23 Due Date: 26JUL23

Sample #	Client ID	Mat PR Collected
L2339907-01	TP-01-3-5 FT	3 S0 11JUL23 13:10
8260/ 8270 - TCL + CP-51 list built: Include TICs ASP-B Package Due Date: 07/26/23		
5035KITS, ASP-B, E&I-FEE, HOLD-8260HLW, HOLD-8270, HOLD-METAL, HOLD-WETCHEM		
L2339907-02	TP-02-3-4FT	3 S0 11JUL23 14:30
8260/ 8270 - TCL + CP-51 list built: Include TICs L2339907-02 MS L2339907-02 MSD Package Due Date: 07/26/23		
5035KITS, MS/MSD, NYTCL-8260HLW, NYTCL-8270, TAL, AG-TI, AL-TI, AS-TI, BA-TI, BE-TI, CA-TI, CD-TI, CO-TI, CR-TI, CU-TI, FE-TI, HG-T, K-TI, MG-TI, MN-TI, NA-TI, NI-TI, PB-TI, PREPT, SB-TI, SE-TI, TL-TI, V-TI, ZN-TI, TS		
L2339907-03	TP-03-0.5-2 FT	3 S0 11JUL23 15:45
8260/ 8270 - TCL + CP-51 list built: Include TICs Package Due Date: 07/26/23		
5035KITS, NYTCL-8260HLW, NYTCL-8270, TAL, AG-TI, AL-TI, AS-TI, BA-TI, BE-TI, CA-TI, CD-TI, CO-TI, CR-TI, CU-TI, FE-TI, HG-T, K-TI, MG-TI, MN-TI, NA-TI, NI-TI, PB-TI, PREPT, SB-TI, SE-TI, TL-TI, V-TI, ZN-TI, TS		
L2339907-04	TP-04-0.5-2.5 FT	3 S0 12JUL23 08:00
8260/ 8270 - TCL + CP-51 list built: Include TICs Package Due Date: 07/26/23		
5035KITS, NYTCL-8260HLW, NYTCL-8270, TAL, AG-TI, AL-TI, AS-TI, BA-TI, BE-TI, CA-TI, CD-TI, CO-TI, CR-TI, CU-TI, FE-TI, HG-T, K-TI, MG-TI, MN-TI, NA-TI, NI-TI, PB-TI, PREPT, SB-TI, SE-TI, TL-TI, V-TI, ZN-TI, TS		
L2339907-05	TP-05-0.5-2.5 FT	3 S0 12JUL23 09:30
8260/ 8270 - TCL + CP-51 list built: Include TICs Package Due Date: 07/26/23		
5035KITS, NYTCL-8260HLW, NYTCL-8270, TAL, AG-TI, AL-TI, AS-TI, BA-TI, BE-TI, CA-TI, CD-TI, CO-TI, CR-TI, CU-TI, FE-TI, HG-T, K-TI, MG-TI, MN-TI, NA-TI, NI-TI, PB-TI, PREPT, SB-TI, SE-TI, TL-TI, V-TI, ZN-TI, TS		
L2339907-06	TP-06-0.4-3 FT	3 S0 12JUL23 10:40
8260/ 8270 - TCL + CP-51 list built: Include TICs Package Due Date: 07/26/23		

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Aug 06 2023, 06:17 pm

Login Number: L2339907

Account: LABELLA-ROC LaBella Associates, P.C. Project: 2230119

Received: 12JUL23 Due Date: 26JUL23

Sample #	Client ID	Mat PR Collected
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5035KITS, NYTCL-8260HLW, NYTCL-8270, TAL, AG-TI, AL-TI, AS-TI, BA-TI, BE-TI, CA-TI, CD-TI, CO-TI, CR-TI, CU-TI, FE-TI, HG-T, K-TI, MG-TI, MN-TI, NA-TI, NI-TI, PB-TI, PREPT, SB-TI, SE-TI, TL-TI, V-TI, ZN-TI, TS

L2339907-07 TP-07-2.0-4.5 FT 3 S0 11JUL23 11:45
8260/ 8270 - TCL + CP-51 list built: Include TICs Package Due Date: 07/26/23

5035KITS, NYTCL-8260HLW, NYTCL-8270, TAL, AG-TI, AL-TI, AS-TI, BA-TI, BE-TI, CA-TI, CD-TI, CO-TI, CR-TI, CU-TI, FE-TI, HG-T, K-TI, MG-TI, MN-TI, NA-TI, NI-TI, PB-TI, PREPT, SB-TI, SE-TI, TL-TI, V-TI, ZN-TI, TS

L2339907-08 TP-08-1-2 FT 3 S0 12JUL23 12:45
8260/ 8270 - TCL + CP-51 list built: Include TICs Package Due Date: 07/26/23

5035KITS, HOLD-8260HLW, HOLD-8270, HOLD-METAL, HOLD-WETCHEM

L2339907-09 BD-01-3-4 FT 3 S0 11JUL23 00:00
8260/ 8270 - TCL + CP-51 list built: Include TICs Package Due Date: 07/26/23

5035KITS, NYTCL-8260HLW, NYTCL-8270, TAL, AG-TI, AL-TI, AS-TI, BA-TI, BE-TI, CA-TI, CD-TI, CO-TI, CR-TI, CU-TI, FE-TI, HG-T, K-TI, MG-TI, MN-TI, NA-TI, NI-TI, PB-TI, PREPT, SB-TI, SE-TI, TL-TI, V-TI, ZN-TI, TS

Organics

GC/MS 8260

Analysis

Volatiles QC Summary

Surrogate Recovery Summary

Form 2

Volatiles

Client: LaBella Associates, P.C.
 Project Name: PH II INVESTIGATION

Lab Number: L2339907
 Project Number: 2230119
 Matrix: Soil

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
TP-02-3-4FT (L2339907-02)	104	97	102	101	0
TP-03-0.5-2 FT (L2339907-03)	106	103	110	106	0
TP-04-0.5-2.5 FT (L2339907-04)	105	99	104	104	0
TP-05-0.5-2.5 FT (L2339907-05)	103	97	106	103	0
TP-06-0.4-3 FT (L2339907-06)	106	99	105	102	0
TP-07-2.0-4.5 FT (L2339907-07)	105	99	102	102	0
BD-01-3-4 FT (L2339907-09)	107	96	94	103	0
WG1806697-3LCS	102	100	103	98	0
WG1806697-4LCSD	100	99	104	97	0
WG1806697-5BLANK	110	99	104	104	0
TP-02-3-4FTMS	103	100	101	100	0
TP-02-3-4FTMSD	107	99	103	99	0

QC LIMITS

- (70-130) DCA = 1,2-DICHLOROETHANE-D4
- (70-130) TOL = TOLUENE-D8
- (70-130) BFB = 4-BROMOFLUOROBENZENE
- (70-130) DBFM = DIBROMOFLUOROMETHANE

* Values outside of QC limits

FORM II NYTCL-8260HLW



Laboratory Control Sample Summary

Form 3

Volatiles

Client : LaBella Associates, P.C. **Lab Number** : L2339907
Project Name : PH II INVESTIGATION **Project Number** : 2230119
Matrix (Level) : SOIL (LOW)
LCS Sample ID : WG1806697-3 **Analysis Date** : 07/21/23 18:57 **File ID** : V29230721N02
LCSD Sample ID : WG1806697-4 **Analysis Date** : 07/21/23 19:18 **File ID** : V29230721N03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
Methylene chloride	40	40	100	40	40	100	0	70-130	30
1,1-Dichloroethane	40	41	103	40	41	103	0	70-130	30
Chloroform	40	41	102	40	42	104	2	70-130	30
Carbon tetrachloride	40	41	102	40	42	106	4	70-130	30
1,2-Dichloropropane	40	37	93	40	37	93	0	70-130	30
Dibromochloromethane	40	36	91	40	36	90	1	70-130	30
1,1,2-Trichloroethane	40	38	95	40	37	94	1	70-130	30
Tetrachloroethene	40	37	93	40	37	93	0	70-130	30
Chlorobenzene	40	37	94	40	38	94	0	70-130	30
Trichlorofluoromethane	40	44	110	40	44	109	1	70-139	30
1,2-Dichloroethane	40	41	101	40	40	100	1	70-130	30
1,1,1-Trichloroethane	40	45	112	40	46	114	2	70-130	30
Bromodichloromethane	40	40	100	40	41	102	2	70-130	30
trans-1,3-Dichloropropene	40	37	92	40	36	90	2	70-130	30
cis-1,3-Dichloropropene	40	38	96	40	38	96	0	70-130	30
Bromoform	40	37	92	40	37	93	1	70-130	30
1,1,2,2-Tetrachloroethane	40	34	84	40	34	85	1	70-130	30
Benzene	40	41	103	40	41	103	0	70-130	30
Toluene	40	38	96	40	38	96	0	70-130	30
Ethylbenzene	40	40	100	40	40	100	0	70-130	30
Chloromethane	40	27	67	40	27	68	1	52-130	30
Bromomethane	40	51	127	40	50	125	2	57-147	30
Vinyl chloride	40	36	89	40	35	88	1	67-130	30
Chloroethane	40	39	97	40	37	93	4	50-151	30
1,1-Dichloroethene	40	43	107	40	43	107	0	65-135	30
trans-1,2-Dichloroethene	40	42	104	40	41	102	2	70-130	30



Laboratory Control Sample Summary
Form 3
Volatiles

Client : LaBella Associates, P.C. Lab Number : L2339907
 Project Name : PH II INVESTIGATION Project Number : 2230119
 Matrix (Level) : SOIL (LOW)
 LCS Sample ID : WG1806697-3 Analysis Date : 07/21/23 18:57 File ID : V29230721N02
 LCSD Sample ID : WG1806697-4 Analysis Date : 07/21/23 19:18 File ID : V29230721N03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
Trichloroethene	40	44	111	40	44	110	1	70-130	30
1,2-Dichlorobenzene	40	36	91	40	38	94	3	70-130	30
1,3-Dichlorobenzene	40	37	92	40	38	95	3	70-130	30
1,4-Dichlorobenzene	40	36	91	40	37	93	2	70-130	30
Methyl tert butyl ether	40	45	113	40	43	108	5	66-130	30
p/m-Xylene	80	78	97	80	78	98	1	70-130	30
o-Xylene	80	77	97	80	80	99	2	70-130	30
cis-1,2-Dichloroethene	40	40	100	40	40	99	1	70-130	30
Styrene	80	79	99	80	78	98	1	70-130	30
Dichlorodifluoromethane	40	38	96	40	39	96	0	30-146	30
Acetone	40	41	103	40	41	103	0	54-140	30
Carbon disulfide	40	41	101	40	40	100	1	59-130	30
2-Butanone	40	26	66 Q	40	25	63 Q	5	70-130	30
4-Methyl-2-pentanone	40	33	82	40	31	78	5	70-130	30
2-Hexanone	40	28	70	40	27	68 Q	3	70-130	30
1,2-Dibromoethane	40	38	94	40	37	93	1	70-130	30
n-Butylbenzene	40	41	104	40	43	108	4	70-130	30
sec-Butylbenzene	40	40	101	40	42	104	3	70-130	30
tert-Butylbenzene	40	38	95	40	40	99	4	70-130	30
1,2-Dibromo-3-chloropropane	40	34	85	40	34	85	0	68-130	30
Isopropylbenzene	40	39	98	40	41	103	5	70-130	30
p-Isopropyltoluene	40	39	98	40	40	101	3	70-130	30
Naphthalene	40	35	88	40	35	87	1	70-130	30
n-Propylbenzene	40	39	98	40	41	103	5	70-130	30
1,2,4-Trichlorobenzene	40	39	98	40	40	100	2	70-130	30
1,3,5-Trimethylbenzene	40	40	99	40	41	103	4	70-130	30



**Laboratory Control Sample Summary
Form 3
Volatiles**

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Matrix (Level) : SOIL (LOW)	
LCS Sample ID : WG1806697-3 Analysis Date : 07/21/23 18:57	File ID : V29230721N02
LCSD Sample ID : WG1806697-4 Analysis Date : 07/21/23 19:18	File ID : V29230721N03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
1,2,4-Trimethylbenzene	40	39	97	40	40	101	4	70-130	30
Methyl Acetate	40	37	93	40	36	90	3	51-146	30
Cyclohexane	40	41	102	40	42	104	2	59-142	30
Freon-113	40	44	109	40	45	111	2	50-139	30
Methyl cyclohexane	40	41	103	40	42	105	2	70-130	30



Matrix Spike Sample Summary

Form 3

Volatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Client Sample ID : TP-02-3-4FT
Lab Sample ID : L2339907-02
Matrix Spike : WG1806697-6
Matrix Spike Dup : WG1806697-7

Lab Number : L2339907
Project Number : 2230119
Matrix (Level) : SOIL (LOW)
Analysis Date : 07/21/23 22:46
MS Analysis Date : 07/22/23 03:15
MSD Analysis Date : 07/22/23 03:36

Parameter	Sample Conc. (ug/kg)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R			
Methylene chloride	ND	84.5	85	100	90.2	72	79	17	70-130	30
1,1-Dichloroethane	ND	84.5	93	110	90.2	80	89	15	70-130	30
Chloroform	ND	84.5	93	110	90.2	79	88	16	70-130	30
Carbon tetrachloride	ND	84.5	94	111	90.2	83	92	12	70-130	30
1,2-Dichloropropane	ND	84.5	82	97	90.2	69	76	17	70-130	30
Dibromochloromethane	ND	84.5	79	93	90.2	66	73	18	70-130	30
1,1,2-Trichloroethane	ND	84.5	78	92	90.2	64	71	18	70-130	30
Tetrachloroethene	ND	84.5	74	88	90.2	65	72	14	70-130	30
Chlorobenzene	ND	84.5	74	88	90.2	63	70	17	70-130	30
Trichlorofluoromethane	ND	84.5	100	119	90.2	90	99	12	70-139	30
1,2-Dichloroethane	ND	84.5	87	103	90.2	73	81	18	70-130	30
1,1,1-Trichloroethane	ND	84.5	100	122	90.2	90	100	13	70-130	30
Bromodichloromethane	ND	84.5	90	106	90.2	75	83	18	70-130	30
trans-1,3-Dichloropropene	ND	84.5	74	88	90.2	63	70	17	70-130	30
cis-1,3-Dichloropropene	ND	84.5	80	95	90.2	66	74	19	70-130	30
Bromoform	ND	84.5	76	89	90.2	63	70	18	70-130	30
1,1,2,2-Tetrachloroethane	ND	84.5	67	80	90.2	56	62 Q	19	70-130	30
Benzene	ND	84.5	90	106	90.2	77	85	16	70-130	30
Toluene	ND	84.5	79	94	90.2	68	75	16	70-130	30
Ethylbenzene	ND	84.5	80	95	90.2	68	75	17	70-130	30
Chloromethane	ND	84.5	61	72	90.2	54	60	12	52-130	30
Bromomethane	ND	84.5	110	132	90.2	97	107	15	57-147	30



Matrix Spike Sample Summary

Form 3

Volatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Client Sample ID : TP-02-3-4FT
Lab Sample ID : L2339907-02
Matrix Spike : WG1806697-6
Matrix Spike Dup : WG1806697-7

Lab Number : L2339907
Project Number : 2230119
Matrix (Level) : SOIL (LOW)
Analysis Date : 07/21/23 22:46
MS Analysis Date : 07/22/23 03:15
MSD Analysis Date : 07/22/23 03:36

Parameter	Sample Conc. (ug/kg)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R			
Vinyl chloride	ND	84.5	79	94	90.2	72	80	10	67-130	30
Chloroethane	ND	84.5	85	100	90.2	73	81	15	50-151	30
1,1-Dichloroethene	ND	84.5	98	115	90.2	88	98	10	65-135	30
trans-1,2-Dichloroethene	ND	84.5	91	107	90.2	78	86	15	70-130	30
Trichloroethene	ND	84.5	92	108	90.2	81	89	13	70-130	30
1,2-Dichlorobenzene	ND	84.5	66	78	90.2	53	59	Q 21	70-130	30
1,3-Dichlorobenzene	ND	84.5	65	77	90.2	53	58	Q 21	70-130	30
1,4-Dichlorobenzene	ND	84.5	64	76	90.2	51	56	Q 23	70-130	30
Methyl tert butyl ether	ND	84.5	95	112	90.2	80	88	18	66-130	30
p/m-Xylene	ND	169	150	91	180	130	72	18	70-130	30
o-Xylene	ND	169	150	91	180	130	72	18	70-130	30
cis-1,2-Dichloroethene	ND	84.5	87	102	90.2	74	82	16	70-130	30
Styrene	ND	169	150	90	180	130	72	17	70-130	30
Dichlorodifluoromethane	ND	84.5	88	104	90.2	81	89	9	30-146	30
Acetone	ND	84.5	85	100	90.2	70	78	19	54-140	30
Carbon disulfide	ND	84.5	92	108	90.2	82	91	11	59-130	30
2-Butanone	ND	84.5	55	65	Q 90.2	45	50	Q 19	70-130	30
4-Methyl-2-pentanone	ND	84.5	65	76	90.2	56	62	Q 15	70-130	30
2-Hexanone	ND	84.5	54	64	Q 90.2	46	51	Q 17	70-130	30
1,2-Dibromoethane	ND	84.5	76	89	90.2	64	70	17	70-130	30
n-Butylbenzene	ND	84.5	70	83	90.2	56	62	Q 23	70-130	30
sec-Butylbenzene	ND	84.5	74	88	90.2	62	68	Q 19	70-130	30



Matrix Spike Sample Summary

Form 3

Volatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Client Sample ID : TP-02-3-4FT
Lab Sample ID : L2339907-02
Matrix Spike : WG1806697-6
Matrix Spike Dup : WG1806697-7

Lab Number : L2339907
Project Number : 2230119
Matrix (Level) : SOIL (LOW)
Analysis Date : 07/21/23 22:46
MS Analysis Date : 07/22/23 03:15
MSD Analysis Date : 07/22/23 03:36

Parameter	Sample Conc. (ug/kg)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit	
		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R				
tert-Butylbenzene	ND	84.5	73	86	90.2	61	68	Q	18	70-130	30
1,2-Dibromo-3-chloropropane	ND	84.5	64	75	90.2	54	60	Q	16	68-130	30
Isopropylbenzene	ND	84.5	76	90	90.2	64	71		17	70-130	30
p-Isopropyltoluene	ND	84.5	69	82	90.2	56	62	Q	21	70-130	30
Naphthalene	ND	84.5	59	70	90.2	49	54	Q	20	70-130	30
n-Propylbenzene	ND	84.5	74	87	90.2	61	67	Q	19	70-130	30
1,2,4-Trichlorobenzene	ND	84.5	62	73	90.2	47	52	Q	27	70-130	30
1,3,5-Trimethylbenzene	ND	84.5	74	88	90.2	61	67	Q	20	70-130	30
1,2,4-Trimethylbenzene	ND	84.5	73	86	90.2	59	65	Q	21	70-130	30
Methyl Acetate	ND	84.5	96	113	90.2	77	86		22	51-146	30
Cyclohexane	ND	84.5	94	112	90.2	83	92		13	59-142	30
Freon-113	ND	84.5	97	115	90.2	93	103		4	50-139	30
Methyl cyclohexane	ND	84.5	91	107	90.2	80	89		12	70-130	30



Method Blank Summary Form 4 Volatiles

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab Sample ID : WG1806697-5	Lab File ID : V29230721N05
Instrument ID : VOA129	
Matrix : SOIL	Analysis Date : 07/21/23 20:00

Client Sample No.	Lab Sample ID	Analysis Date
WG1806697-3LCS	WG1806697-3	07/21/23 18:57
WG1806697-4LCSD	WG1806697-4	07/21/23 19:18
TP-02-3-4FT	L2339907-02	07/21/23 22:46
TP-03-0.5-2 FT	L2339907-03	07/21/23 23:07
TP-04-0.5-2.5 FT	L2339907-04	07/21/23 23:28
TP-05-0.5-2.5 FT	L2339907-05	07/21/23 23:48
TP-06-0.4-3 FT	L2339907-06	07/22/23 00:09
TP-07-2.0-4.5 FT	L2339907-07	07/22/23 00:30
BD-01-3-4 FT	L2339907-09	07/22/23 00:50
TP-02-3-4FTMS	WG1806697-6	07/22/23 03:15
TP-02-3-4FTMSD	WG1806697-7	07/22/23 03:36



**Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Instrument ID	: VOA129	Analysis Date	: 03/08/23 16:14
Tune Standard	: WG1753306-1	Tune File ID	: V29230308NBF3_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21
75	30.0 - 80.0% of mass 95	49.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.2 (.3)1
174	Greater than 50.0% of mass 95	82.9
175	5.0 - 9.0% of mass 174	6 (7.2)1
176	Greater than 95.0% but less than 101% of mass	81.2 (98)1
177	5.0 - 9.0% of mass 176	5.5 (6.8)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD2PPB	R1671236-1	V29230308N06	03/08/23 18:23
STD4PPB	R1671236-3	V29230308N07	03/08/23 18:44
STD20PPB	R1671236-2	V29230308N08	03/08/23 19:04
STD40PPB	R1671236-4	V29230308N09	03/08/23 19:25
STD100PPB	R1671236-6	V29230308N10	03/08/23 19:46
STD200PPB	R1671236-5	V29230308N11	03/08/23 20:07
STD300PPB	R1671236-7	V29230308N12	03/08/23 20:28
STD0.5PPB	R1671236-8	V29230308N20	03/08/23 23:14
STD1PPB	R1671236-9	V29230308N21	03/08/23 23:35



**Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Instrument ID	: VOA129	Analysis Date	: 03/09/23 17:51
Tune Standard	: WG1753306-2	Tune File ID	: V29230309NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.2
75	30.0 - 80.0% of mass 95	49.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.2 (.3)1
174	Greater than 50.0% of mass 95	83.4
175	5.0 - 9.0% of mass 174	6.4 (7.6)1
176	Greater than 95.0% but less than 101% of mass	80.4 (96.4)1
177	5.0 - 9.0% of mass 176	5.3 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ICV Quant Report	R1671236-10	V29230309N03	03/09/23 18:54



**Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Instrument ID	: VOA129	Analysis Date	: 07/21/23 18:16
Tune Standard	: WG1806697-1	Tune File ID	: V29230721NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	17.7
75	30.0 - 80.0% of mass 95	48.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0% of mass 95	81.8
175	5.0 - 9.0% of mass 174	6.2 (7.5)1
176	Greater than 95.0% but less than 101% of mass	79.4 (97.1)1
177	5.0 - 9.0% of mass 176	5.4 (6.8)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1806697-2CCAL	WG1806697-2	V29230721N01	07/21/23 18:37
WG1806697-3LCS	WG1806697-3	V29230721N02	07/21/23 18:57
WG1806697-4LCSD	WG1806697-4	V29230721N03	07/21/23 19:18
WG1806697-5BLANK	WG1806697-5	V29230721N05	07/21/23 20:00
TP-02-3-4FT	L2339907-02	V29230721N13	07/21/23 22:46
TP-03-0.5-2 FT	L2339907-03	V29230721N14	07/21/23 23:07
TP-04-0.5-2.5 FT	L2339907-04	V29230721N15	07/21/23 23:28
TP-05-0.5-2.5 FT	L2339907-05	V29230721N16	07/21/23 23:48
TP-06-0.4-3 FT	L2339907-06	V29230721N17	07/22/23 00:09
TP-07-2.0-4.5 FT	L2339907-07	V29230721N18	07/22/23 00:30
BD-01-3-4 FT	L2339907-09	V29230721N19	07/22/23 00:50
WG1806697-6MS	WG1806697-6	V29230721N26	07/22/23 03:15
WG1806697-7MSD	WG1806697-7	V29230721N27	07/22/23 03:36



Internal Standard Area and RT Summary

Form 8a

Volatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : VOA129
 Sample No : WG1806697-2

Lab Number : L2339907
 Project Number : 2230119
 Analysis Date : 07/21/23 18:37:00
 Lab File ID : V29230721N01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1806697-2	283796	5.89	220595	8.74	120931	10.19
Upper Limit	567592	6.39	441190	9.24	241862	10.69
Lower Limit	141898	5.39	110298	8.24	60466	9.69
Sample ID						
WG1806697-3 LCS	272230	5.89	213946	8.74	118437	10.19
WG1806697-4 LCSD	263036	5.89	207407	8.74	111694	10.19
WG1806697-5 BLANK	234240	5.89	183969	8.74	102564	10.19
TP-02-3-4FT	225059	5.90	182133	8.74	102677	10.19
TP-03-0.5-2 FT	219521	5.90	167719	8.74	81750	10.19
TP-04-0.5-2.5 FT	224784	5.90	175877	8.74	93038	10.19
TP-05-0.5-2.5 FT	233019	5.90	184634	8.74	94808	10.19
TP-06-0.4-3 FT	223186	5.90	173225	8.74	93095	10.19
TP-07-2.0-4.5 FT	232318	5.90	184729	8.74	98600	10.19
BD-01-3-4 FT	221481	5.89	178041	8.74	103596	10.19
TP-02-3-4FT MS	246272	5.89	195497	8.74	109781	10.19
TP-02-3-4FT MSD	263482	5.90	206211	8.74	116375	10.19

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits





Date Created: 03/15/23
 Created By: Jason Hebert
 File: PM14094-1
 Page: 1

Volatile Organics - EPA 8260D (WATER)

Holding Time: 14 days
 Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.21	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.24	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.2	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.33	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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 Created By: Jason Hebert
 File: PM14094-1
 Page: 2

Volatile Organics - EPA 8260D (WATER)

Holding Time: 14 days
 Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20			
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20			
Acrylonitrile	107-13-1	5	0.43	ug/l	70-130	20	70-130	20	20			
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20			
Tetrahydrofuran	109-99-9	5	0.525	ug/l	58-130	20	58-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.22	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20			
1,2-Dichloroethane-d4	17060-07-0											70-130
Toluene-d8	2037-26-5											70-130
4-Bromofluorobenzene	460-00-4											70-130
Dibromofluoromethane	1868-53-7											70-130

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Date Created: 03/15/23
 Created By: Jason Hebert
 File: PM14095-1
 Page: 1

VOCs - EPA 8260D/5035 High & Low (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30	
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30	
Chloroform	67-66-3	1.5	0.14	ug/kg	70-130	30	70-130	30	30	
Carbon tetrachloride	56-23-5	1	0.23	ug/kg	70-130	30	70-130	30	30	
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30	
Dibromochloromethane	124-48-1	1	0.14	ug/kg	70-130	30	70-130	30	30	
1,1,2-Trichloroethane	79-00-5	1	0.267	ug/kg	70-130	30	70-130	30	30	
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30	
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30	
Trichlorofluoromethane	75-69-4	4	0.695	ug/kg	70-139	30	70-139	30	30	
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30	
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30	
Bromodichloromethane	75-27-4	0.5	0.109	ug/kg	70-130	30	70-130	30	30	
trans-1,3-Dichloropropene	10061-02-6	1	0.273	ug/kg	70-130	30	70-130	30	30	
cis-1,3-Dichloropropene	10061-01-5	0.5	0.158	ug/kg	70-130	30	70-130	30	30	
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30	
1,1-Dichloropropene	563-58-6	0.5	0.159	ug/kg	70-130	30	70-130	30	30	
Bromoform	75-25-2	4	0.246	ug/kg	70-130	30	70-130	30	30	
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.166	ug/kg	70-130	30	70-130	30	30	
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30	
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30	
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30	
Chloromethane	74-87-3	4	0.932	ug/kg	52-130	30	52-130	30	30	
Bromomethane	74-83-9	2	0.581	ug/kg	57-147	30	57-147	30	30	
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30	
Chloroethane	75-00-3	2	0.452	ug/kg	50-151	30	50-151	30	30	
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30	
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30	
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30	
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30	
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30	
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30	
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30	
p/m-Xylene	179601-23-1	2	0.56	ug/kg	70-130	30	70-130	30	30	
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30	
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30	
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30	
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30	
Dibromomethane	74-95-3	2	0.238	ug/kg	70-130	30	70-130	30	30	
1,4-Dichlorobutane	110-56-5	10	0.226	ug/kg	70-130	30	70-130	30	30	
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30	
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Date Created: 03/15/23
 Created By: Jason Hebert
 File: PM14095-1
 Page: 2

VOCs - EPA 8260D/5035 High & Low (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Dichlorodifluoromethane	75-71-8	10	0.915	ug/kg	30-146	30	30-146	30	30	
Acetone	67-64-1	25	10	ug/kg	54-140	30	54-140	30	30	
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30	
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30	
Vinyl acetate	108-05-4	10	2.15	ug/kg	70-130	30	70-130	30	30	
4-Methyl-2-pentanone	108-10-1	10	1.28	ug/kg	70-130	30	70-130	30	30	
2-Hexanone	591-78-6	10	1.18	ug/kg	70-130	30	70-130	30	30	
Ethyl methacrylate	97-63-2	10	1.58	ug/kg	70-130	30	70-130	30	30	
Acrylonitrile	107-13-1	4	1.15	ug/kg	70-130	30	70-130	30	30	
Bromochloromethane	74-97-5	2	0.205	ug/kg	70-130	30	70-130	30	30	
Tetrahydrofuran	109-99-9	4	1.59	ug/kg	66-130	30	66-130	30	30	
2,2-Dichloropropane	594-20-7	2	0.202	ug/kg	70-130	30	70-130	30	30	
1,2-Dibromoethane	106-93-4	1	0.279	ug/kg	70-130	30	70-130	30	30	
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30	
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.132	ug/kg	70-130	30	70-130	30	30	
Bromobenzene	108-86-1	2	0.145	ug/kg	70-130	30	70-130	30	30	
n-Butylbenzene	104-51-8	1	0.167	ug/kg	70-130	30	70-130	30	30	
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30	
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30	
o-Chlorotoluene	95-49-8	2	0.191	ug/kg	70-130	30	70-130	30	30	
p-Chlorotoluene	106-43-4	2	0.108	ug/kg	70-130	30	70-130	30	30	
1,2-Dibromo-3-chloropropane	96-12-8	3	0.998	ug/kg	68-130	30	68-130	30	30	
Hexachlorobutadiene	87-68-3	4	0.169	ug/kg	67-130	30	67-130	30	30	
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30	
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30	
Naphthalene	91-20-3	4	0.65	ug/kg	70-130	30	70-130	30	30	
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30	
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30	
1,2,4-Trichlorobenzene	120-82-1	2	0.272	ug/kg	70-130	30	70-130	30	30	
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30	
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30	
trans-1,4-Dichloro-2-butene	110-57-6	5	1.42	ug/kg	70-130	30	70-130	30	30	
Ethyl ether	60-29-7	2	0.341	ug/kg	67-130	30	67-130	30	30	
1,2-Dichloroethane-d4	17060-07-0									70-130
Toluene-d8	2037-26-5									70-130
4-Bromofluorobenzene	460-00-4									70-130
Dibromofluoromethane	1868-53-7									70-130

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatiles Sample Data

Results Summary
Form 1
Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-02	Date Collected : 07/11/23 14:30
Client ID : TP-02-3-4FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/21/23 22:46
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260D	Analyst : AJK
Lab File ID : V29230721N13	Instrument ID : VOA129
Sample Amount : 5.9 g	GC Column : RTX-VMS
Level : LOW	%Solids : 89
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	4.8	2.2	U
75-34-3	1,1-Dichloroethane	ND	0.95	0.14	U
67-66-3	Chloroform	ND	1.4	0.13	U
56-23-5	Carbon tetrachloride	ND	0.95	0.22	U
78-87-5	1,2-Dichloropropane	ND	0.95	0.12	U
124-48-1	Dibromochloromethane	ND	0.95	0.13	U
79-00-5	1,1,2-Trichloroethane	ND	0.95	0.25	U
127-18-4	Tetrachloroethene	ND	0.48	0.19	U
108-90-7	Chlorobenzene	ND	0.48	0.12	U
75-69-4	Trichlorofluoromethane	ND	3.8	0.66	U
107-06-2	1,2-Dichloroethane	ND	0.95	0.24	U
71-55-6	1,1,1-Trichloroethane	ND	0.48	0.16	U
75-27-4	Bromodichloromethane	ND	0.48	0.10	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.95	0.26	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.48	0.15	U
75-25-2	Bromoform	ND	3.8	0.23	U
79-34-5	1,1,1,2-Tetrachloroethane	ND	0.48	0.16	U
71-43-2	Benzene	ND	0.48	0.16	U
108-88-3	Toluene	ND	0.95	0.52	U
100-41-4	Ethylbenzene	ND	0.95	0.13	U
74-87-3	Chloromethane	ND	3.8	0.89	U
74-83-9	Bromomethane	ND	1.9	0.55	U
75-01-4	Vinyl chloride	ND	0.95	0.32	U
75-00-3	Chloroethane	ND	1.9	0.43	U
75-35-4	1,1-Dichloroethene	ND	0.95	0.23	U



Results Summary
Form 1
Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-02	Date Collected : 07/11/23 14:30
Client ID : TP-02-3-4FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/21/23 22:46
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260D	Analyst : AJK
Lab File ID : V29230721N13	Instrument ID : VOA129
Sample Amount : 5.9 g	GC Column : RTX-VMS
Level : LOW	%Solids : 89
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.13	U
79-01-6	Trichloroethene	ND	0.48	0.13	U
95-50-1	1,2-Dichlorobenzene	ND	1.9	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	1.9	0.14	U
106-46-7	1,4-Dichlorobenzene	ND	1.9	0.16	U
1634-04-4	Methyl tert butyl ether	ND	1.9	0.19	U
179601-23-1	p/m-Xylene	ND	1.9	0.53	U
95-47-6	o-Xylene	ND	0.95	0.28	U
156-59-2	cis-1,2-Dichloroethene	ND	0.95	0.17	U
100-42-5	Styrene	ND	0.95	0.19	U
75-71-8	Dichlorodifluoromethane	ND	9.5	0.87	U
67-64-1	Acetone	ND	9.5	4.6	U
75-15-0	Carbon disulfide	ND	9.5	4.3	U
78-93-3	2-Butanone	ND	9.5	2.1	U
108-10-1	4-Methyl-2-pentanone	ND	9.5	1.2	U
591-78-6	2-Hexanone	ND	9.5	1.1	U
106-93-4	1,2-Dibromoethane	ND	0.95	0.26	U
104-51-8	n-Butylbenzene	ND	0.95	0.16	U
135-98-8	sec-Butylbenzene	ND	0.95	0.14	U
98-06-6	tert-Butylbenzene	ND	1.9	0.11	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.8	0.95	U
98-82-8	Isopropylbenzene	ND	0.95	0.10	U
99-87-6	p-Isopropyltoluene	ND	0.95	0.10	U
91-20-3	Naphthalene	ND	3.8	0.62	U
103-65-1	n-Propylbenzene	ND	0.95	0.16	U



**Results Summary
Form 1
Volatile Organics by EPA 5035**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-02	Date Collected	: 07/11/23 14:30
Client ID	: TP-02-3-4FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/21/23 22:46
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V29230721N13	Instrument ID	: VOA129
Sample Amount	: 5.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 89
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.26	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.9	0.18	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.9	0.32	U
79-20-9	Methyl Acetate	ND	3.8	0.90	U
110-82-7	Cyclohexane	ND	9.5	0.52	U
76-13-1	Freon-113	ND	3.8	0.66	U
108-87-2	Methyl cyclohexane	ND	3.8	0.57	U



**Tentatively Identified Compounds
Form 1
Volatile Organics by EPA 5035**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-02	Date Collected	: 07/11/23 14:30
Client ID	: TP-02-3-4FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/21/23 22:46
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V29230721N13	Instrument ID	: VOA129
Sample Amount	:	GC Column	:
Level	:	%Solids	: 89
Extract Volume (MeOH)	: NA	Injection Volume	: 1

Number TICS found: 2

Concentration Units: ug/Kg

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
	Unknown	2.46	4.96	J
Total TIC Compounds			4.96J	J



Results Summary
Form 1
Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Lab ID : L2339907-03
 Client ID : TP-03-0.5-2 FT
 Sample Location : 42 YORK STREET, ROCHESTER NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260D
 Lab File ID : V29230721N14
 Sample Amount : 5.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2339907
 Project Number : 2230119
 Date Collected : 07/11/23 15:45
 Date Received : 07/12/23
 Date Analyzed : 07/21/23 23:07
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA129
 GC Column : RTX-VMS
 %Solids : 83
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	5.2	2.4	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.15	U
67-66-3	Chloroform	ND	1.6	0.15	U
56-23-5	Carbon tetrachloride	ND	1.0	0.24	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	1.0	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	U
127-18-4	Tetrachloroethene	ND	0.52	0.20	U
108-90-7	Chlorobenzene	ND	0.52	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.2	0.73	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.27	U
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.18	U
75-27-4	Bromodichloromethane	ND	0.52	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.29	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.52	0.16	U
75-25-2	Bromoform	ND	4.2	0.26	U
79-34-5	1,1,1,2-Tetrachloroethane	ND	0.52	0.17	U
71-43-2	Benzene	ND	0.52	0.17	U
108-88-3	Toluene	ND	1.0	0.57	U
100-41-4	Ethylbenzene	ND	1.0	0.15	U
74-87-3	Chloromethane	ND	4.2	0.98	U
74-83-9	Bromomethane	ND	2.1	0.61	U
75-01-4	Vinyl chloride	ND	1.0	0.35	U
75-00-3	Chloroethane	ND	2.1	0.47	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.25	U



Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-03	Date Collected	: 07/11/23 15:45
Client ID	: TP-03-0.5-2 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/21/23 23:07
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V29230721N14	Instrument ID	: VOA129
Sample Amount	: 5.7 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 83
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	0.14	U
79-01-6	Trichloroethene	ND	0.52	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	2.1	0.15	U
541-73-1	1,3-Dichlorobenzene	ND	2.1	0.16	U
106-46-7	1,4-Dichlorobenzene	ND	2.1	0.18	U
1634-04-4	Methyl tert butyl ether	ND	2.1	0.21	U
179601-23-1	p/m-Xylene	ND	2.1	0.59	U
95-47-6	o-Xylene	ND	1.0	0.30	U
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	U
100-42-5	Styrene	ND	1.0	0.20	U
75-71-8	Dichlorodifluoromethane	ND	10	0.96	U
67-64-1	Acetone	ND	10	5.0	U
75-15-0	Carbon disulfide	ND	10	4.8	U
78-93-3	2-Butanone	ND	10	2.3	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U
591-78-6	2-Hexanone	ND	10	1.2	U
106-93-4	1,2-Dibromoethane	ND	1.0	0.29	U
104-51-8	n-Butylbenzene	ND	1.0	0.18	U
135-98-8	sec-Butylbenzene	ND	1.0	0.15	U
98-06-6	tert-Butylbenzene	ND	2.1	0.12	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.1	1.0	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
99-87-6	p-Isopropyltoluene	ND	1.0	0.11	U
91-20-3	Naphthalene	ND	4.2	0.68	U
103-65-1	n-Propylbenzene	ND	1.0	0.18	U



**Results Summary
Form 1
Volatile Organics by EPA 5035**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-03	Date Collected	: 07/11/23 15:45
Client ID	: TP-03-0.5-2 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/21/23 23:07
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V29230721N14	Instrument ID	: VOA129
Sample Amount	: 5.7 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 83
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	2.1	0.28	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.1	0.20	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.1	0.35	U
79-20-9	Methyl Acetate	ND	4.2	1.0	U
110-82-7	Cyclohexane	ND	10	0.57	U
76-13-1	Freon-113	ND	4.2	0.73	U
108-87-2	Methyl cyclohexane	ND	4.2	0.63	U



**Tentatively Identified Compounds
Form 1
Volatile Organics by EPA 5035**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-03	Date Collected	: 07/11/23 15:45
Client ID	: TP-03-0.5-2 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/21/23 23:07
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V29230721N14	Instrument ID	: VOA129
Sample Amount	:	GC Column	:
Level	:	%Solids	: 83
Extract Volume (MeOH)	: NA	Injection Volume	: 1

Number TICS found: 3

Concentration Units: ug/Kg

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
000109-67-1	1-Pentene	2.46	25	NJ
	Unknown	7.88	2.57	J
Total TIC Compounds			27.6J	J



Results Summary
Form 1
Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Lab ID : L2339907-04
 Client ID : TP-04-0.5-2.5 FT
 Sample Location : 42 YORK STREET, ROCHESTER NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260D
 Lab File ID : V29230721N15
 Sample Amount : 4.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2339907
 Project Number : 2230119
 Date Collected : 07/12/23 08:00
 Date Received : 07/12/23
 Date Analyzed : 07/21/23 23:28
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA129
 GC Column : RTX-VMS
 %Solids : 79
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	7.9	3.6	U
75-34-3	1,1-Dichloroethane	ND	1.6	0.23	U
67-66-3	Chloroform	ND	2.4	0.22	U
56-23-5	Carbon tetrachloride	ND	1.6	0.36	U
78-87-5	1,2-Dichloropropane	ND	1.6	0.20	U
124-48-1	Dibromochloromethane	ND	1.6	0.22	U
79-00-5	1,1,2-Trichloroethane	ND	1.6	0.42	U
127-18-4	Tetrachloroethene	ND	0.79	0.31	U
108-90-7	Chlorobenzene	ND	0.79	0.20	U
75-69-4	Trichlorofluoromethane	ND	6.3	1.1	U
107-06-2	1,2-Dichloroethane	ND	1.6	0.41	U
71-55-6	1,1,1-Trichloroethane	ND	0.79	0.26	U
75-27-4	Bromodichloromethane	ND	0.79	0.17	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.43	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.79	0.25	U
75-25-2	Bromoform	ND	6.3	0.39	U
79-34-5	1,1,1,2-Tetrachloroethane	ND	0.79	0.26	U
71-43-2	Benzene	ND	0.79	0.26	U
108-88-3	Toluene	ND	1.6	0.86	U
100-41-4	Ethylbenzene	ND	1.6	0.22	U
74-87-3	Chloromethane	ND	6.3	1.5	U
74-83-9	Bromomethane	ND	3.2	0.92	U
75-01-4	Vinyl chloride	ND	1.6	0.53	U
75-00-3	Chloroethane	ND	3.2	0.72	U
75-35-4	1,1-Dichloroethene	ND	1.6	0.38	U



Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-04	Date Collected	: 07/12/23 08:00
Client ID	: TP-04-0.5-2.5 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/21/23 23:28
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V29230721N15	Instrument ID	: VOA129
Sample Amount	: 4.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 79
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.4	0.22	U
79-01-6	Trichloroethene	ND	0.79	0.22	U
95-50-1	1,2-Dichlorobenzene	ND	3.2	0.23	U
541-73-1	1,3-Dichlorobenzene	ND	3.2	0.23	U
106-46-7	1,4-Dichlorobenzene	ND	3.2	0.27	U
1634-04-4	Methyl tert butyl ether	ND	3.2	0.32	U
179601-23-1	p/m-Xylene	ND	3.2	0.89	U
95-47-6	o-Xylene	ND	1.6	0.46	U
156-59-2	cis-1,2-Dichloroethene	ND	1.6	0.28	U
100-42-5	Styrene	ND	1.6	0.31	U
75-71-8	Dichlorodifluoromethane	ND	16	1.4	U
67-64-1	Acetone	ND	16	7.6	U
75-15-0	Carbon disulfide	ND	16	7.2	U
78-93-3	2-Butanone	ND	16	3.5	U
108-10-1	4-Methyl-2-pentanone	ND	16	2.0	U
591-78-6	2-Hexanone	ND	16	1.9	U
106-93-4	1,2-Dibromoethane	ND	1.6	0.44	U
104-51-8	n-Butylbenzene	ND	1.6	0.26	U
135-98-8	sec-Butylbenzene	ND	1.6	0.23	U
98-06-6	tert-Butylbenzene	ND	3.2	0.19	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.8	1.6	U
98-82-8	Isopropylbenzene	ND	1.6	0.17	U
99-87-6	p-Isopropyltoluene	ND	1.6	0.17	U
91-20-3	Naphthalene	ND	6.3	1.0	U
103-65-1	n-Propylbenzene	ND	1.6	0.27	U



**Results Summary
Form 1
Volatile Organics by EPA 5035**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-04	Date Collected	: 07/12/23 08:00
Client ID	: TP-04-0.5-2.5 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/21/23 23:28
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V29230721N15	Instrument ID	: VOA129
Sample Amount	: 4.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 79
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	3.2	0.43	U
108-67-8	1,3,5-Trimethylbenzene	ND	3.2	0.31	U
95-63-6	1,2,4-Trimethylbenzene	ND	3.2	0.53	U
79-20-9	Methyl Acetate	ND	6.3	1.5	U
110-82-7	Cyclohexane	ND	16	0.86	U
76-13-1	Freon-113	ND	6.3	1.1	U
108-87-2	Methyl cyclohexane	ND	6.3	0.96	U



**Tentatively Identified Compounds
Form 1
Volatile Organics by EPA 5035**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-04	Date Collected	: 07/12/23 08:00
Client ID	: TP-04-0.5-2.5 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/21/23 23:28
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V29230721N15	Instrument ID	: VOA129
Sample Amount	:	GC Column	:
Level	:	%Solids	: 79
Extract Volume (MeOH)	: NA	Injection Volume	: 1

Number TICS found: 0

Concentration Units: ug/Kg

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
NO TENTATIVELY IDENTIFIED COMPOUNDS				



Results Summary
Form 1
Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-05	Date Collected : 07/12/23 09:30
Client ID : TP-05-0.5-2.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/21/23 23:48
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260D	Analyst : AJK
Lab File ID : V29230721N16	Instrument ID : VOA129
Sample Amount : 5.1 g	GC Column : RTX-VMS
Level : LOW	%Solids : 82
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	6.0	2.7	U
75-34-3	1,1-Dichloroethane	ND	1.2	0.17	U
67-66-3	Chloroform	ND	1.8	0.17	U
56-23-5	Carbon tetrachloride	ND	1.2	0.28	U
78-87-5	1,2-Dichloropropane	ND	1.2	0.15	U
124-48-1	Dibromochloromethane	ND	1.2	0.17	U
79-00-5	1,1,2-Trichloroethane	ND	1.2	0.32	U
127-18-4	Tetrachloroethene	ND	0.60	0.23	U
108-90-7	Chlorobenzene	ND	0.60	0.15	U
75-69-4	Trichlorofluoromethane	ND	4.8	0.83	U
107-06-2	1,2-Dichloroethane	ND	1.2	0.31	U
71-55-6	1,1,1-Trichloroethane	ND	0.60	0.20	U
75-27-4	Bromodichloromethane	ND	0.60	0.13	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.33	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.60	0.19	U
75-25-2	Bromoform	ND	4.8	0.29	U
79-34-5	1,1,1,2-Tetrachloroethane	ND	0.60	0.20	U
71-43-2	Benzene	ND	0.60	0.20	U
108-88-3	Toluene	ND	1.2	0.65	U
100-41-4	Ethylbenzene	ND	1.2	0.17	U
74-87-3	Chloromethane	ND	4.8	1.1	U
74-83-9	Bromomethane	ND	2.4	0.70	U
75-01-4	Vinyl chloride	ND	1.2	0.40	U
75-00-3	Chloroethane	ND	2.4	0.54	U
75-35-4	1,1-Dichloroethene	ND	1.2	0.28	U



Results Summary
Form 1
Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-05	Date Collected : 07/12/23 09:30
Client ID : TP-05-0.5-2.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/21/23 23:48
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260D	Analyst : AJK
Lab File ID : V29230721N16	Instrument ID : VOA129
Sample Amount : 5.1 g	GC Column : RTX-VMS
Level : LOW	%Solids : 82
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.8	0.16	U
79-01-6	Trichloroethene	ND	0.60	0.16	U
95-50-1	1,2-Dichlorobenzene	ND	2.4	0.17	U
541-73-1	1,3-Dichlorobenzene	ND	2.4	0.18	U
106-46-7	1,4-Dichlorobenzene	ND	2.4	0.20	U
1634-04-4	Methyl tert butyl ether	ND	2.4	0.24	U
179601-23-1	p/m-Xylene	ND	2.4	0.67	U
95-47-6	o-Xylene	ND	1.2	0.35	U
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.21	U
100-42-5	Styrene	ND	1.2	0.23	U
75-71-8	Dichlorodifluoromethane	ND	12	1.1	U
67-64-1	Acetone	ND	12	5.8	U
75-15-0	Carbon disulfide	ND	12	5.4	U
78-93-3	2-Butanone	ND	12	2.7	U
108-10-1	4-Methyl-2-pentanone	ND	12	1.5	U
591-78-6	2-Hexanone	ND	12	1.4	U
106-93-4	1,2-Dibromoethane	ND	1.2	0.33	U
104-51-8	n-Butylbenzene	ND	1.2	0.20	U
135-98-8	sec-Butylbenzene	ND	1.2	0.18	U
98-06-6	tert-Butylbenzene	ND	2.4	0.14	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.6	1.2	U
98-82-8	Isopropylbenzene	ND	1.2	0.13	U
99-87-6	p-Isopropyltoluene	ND	1.2	0.13	U
91-20-3	Naphthalene	ND	4.8	0.78	U
103-65-1	n-Propylbenzene	ND	1.2	0.20	U



Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-05	Date Collected	: 07/12/23 09:30
Client ID	: TP-05-0.5-2.5 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/21/23 23:48
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V29230721N16	Instrument ID	: VOA129
Sample Amount	: 5.1 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 82
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	2.4	0.33	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.4	0.23	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.4	0.40	U
79-20-9	Methyl Acetate	ND	4.8	1.1	U
110-82-7	Cyclohexane	ND	12	0.65	U
76-13-1	Freon-113	ND	4.8	0.83	U
108-87-2	Methyl cyclohexane	ND	4.8	0.72	U



**Tentatively Identified Compounds
Form 1
Volatile Organics by EPA 5035**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-05	Date Collected	: 07/12/23 09:30
Client ID	: TP-05-0.5-2.5 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/21/23 23:48
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V29230721N16	Instrument ID	: VOA129
Sample Amount	:	GC Column	:
Level	:	%Solids	: 82
Extract Volume (MeOH)	: NA	Injection Volume	: 1

Number TICS found: 2

Concentration Units: ug/Kg

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
000109-67-1	1-Pentene	2.47	4.99	NJ
Total TIC Compounds			4.99J	J



Results Summary
Form 1
Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Lab ID : L2339907-06
 Client ID : TP-06-0.4-3 FT
 Sample Location : 42 YORK STREET, ROCHESTER NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260D
 Lab File ID : V29230721N17
 Sample Amount : 5.9 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2339907
 Project Number : 2230119
 Date Collected : 07/12/23 10:40
 Date Received : 07/12/23
 Date Analyzed : 07/22/23 00:09
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA129
 GC Column : RTX-VMS
 %Solids : 62
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	6.8	3.1	U
75-34-3	1,1-Dichloroethane	ND	1.4	0.20	U
67-66-3	Chloroform	ND	2.0	0.19	U
56-23-5	Carbon tetrachloride	ND	1.4	0.31	U
78-87-5	1,2-Dichloropropane	ND	1.4	0.17	U
124-48-1	Dibromochloromethane	ND	1.4	0.19	U
79-00-5	1,1,2-Trichloroethane	ND	1.4	0.36	U
127-18-4	Tetrachloroethene	ND	0.68	0.27	U
108-90-7	Chlorobenzene	ND	0.68	0.17	U
75-69-4	Trichlorofluoromethane	ND	5.4	0.95	U
107-06-2	1,2-Dichloroethane	ND	1.4	0.35	U
71-55-6	1,1,1-Trichloroethane	ND	0.68	0.23	U
75-27-4	Bromodichloromethane	ND	0.68	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.4	0.37	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.68	0.22	U
75-25-2	Bromoform	ND	5.4	0.34	U
79-34-5	1,1,1,2-Tetrachloroethane	ND	0.68	0.23	U
71-43-2	Benzene	ND	0.68	0.23	U
108-88-3	Toluene	ND	1.4	0.74	U
100-41-4	Ethylbenzene	ND	1.4	0.19	U
74-87-3	Chloromethane	ND	5.4	1.3	U
74-83-9	Bromomethane	ND	2.7	0.79	U
75-01-4	Vinyl chloride	ND	1.4	0.46	U
75-00-3	Chloroethane	ND	2.7	0.62	U
75-35-4	1,1-Dichloroethene	ND	1.4	0.32	U



Results Summary
Form 1
Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-06	Date Collected : 07/12/23 10:40
Client ID : TP-06-0.4-3 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/22/23 00:09
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260D	Analyst : AJK
Lab File ID : V29230721N17	Instrument ID : VOA129
Sample Amount : 5.9 g	GC Column : RTX-VMS
Level : LOW	%Solids : 62
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.19	U
79-01-6	Trichloroethene	ND	0.68	0.19	U
95-50-1	1,2-Dichlorobenzene	ND	2.7	0.20	U
541-73-1	1,3-Dichlorobenzene	ND	2.7	0.20	U
106-46-7	1,4-Dichlorobenzene	ND	2.7	0.23	U
1634-04-4	Methyl tert butyl ether	ND	2.7	0.27	U
179601-23-1	p/m-Xylene	ND	2.7	0.76	U
95-47-6	o-Xylene	ND	1.4	0.40	U
156-59-2	cis-1,2-Dichloroethene	ND	1.4	0.24	U
100-42-5	Styrene	ND	1.4	0.27	U
75-71-8	Dichlorodifluoromethane	ND	14	1.2	U
67-64-1	Acetone	ND	14	6.6	U
75-15-0	Carbon disulfide	ND	14	6.2	U
78-93-3	2-Butanone	ND	14	3.0	U
108-10-1	4-Methyl-2-pentanone	ND	14	1.7	U
591-78-6	2-Hexanone	ND	14	1.6	U
106-93-4	1,2-Dibromoethane	ND	1.4	0.38	U
104-51-8	n-Butylbenzene	ND	1.4	0.23	U
135-98-8	sec-Butylbenzene	ND	1.4	0.20	U
98-06-6	tert-Butylbenzene	ND	2.7	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.1	1.4	U
98-82-8	Isopropylbenzene	ND	1.4	0.15	U
99-87-6	p-Isopropyltoluene	ND	1.4	0.15	U
91-20-3	Naphthalene	ND	5.4	0.88	U
103-65-1	n-Propylbenzene	ND	1.4	0.23	U



**Results Summary
Form 1
Volatile Organics by EPA 5035**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-06	Date Collected	: 07/12/23 10:40
Client ID	: TP-06-0.4-3 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/22/23 00:09
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V29230721N17	Instrument ID	: VOA129
Sample Amount	: 5.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 62
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	2.7	0.37	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.7	0.26	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.7	0.45	U
79-20-9	Methyl Acetate	ND	5.4	1.3	U
110-82-7	Cyclohexane	ND	14	0.74	U
76-13-1	Freon-113	ND	5.4	0.94	U
108-87-2	Methyl cyclohexane	ND	5.4	0.82	U



**Tentatively Identified Compounds
Form 1
Volatile Organics by EPA 5035**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-06	Date Collected	: 07/12/23 10:40
Client ID	: TP-06-0.4-3 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/22/23 00:09
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V29230721N17	Instrument ID	: VOA129
Sample Amount	:	GC Column	:
Level	:	%Solids	: 62
Extract Volume (MeOH)	: NA	Injection Volume	: 1

Number TICS found: 2

Concentration Units: ug/Kg

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
000109-67-1	1-Pentene	2.46	6.4	NJ
Total TIC Compounds			6.40J	J



Results Summary
Form 1
Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-07	Date Collected : 07/11/23 11:45
Client ID : TP-07-2.0-4.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/22/23 00:30
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260D	Analyst : AJK
Lab File ID : V29230721N18	Instrument ID : VOA129
Sample Amount : 4.0 g	GC Column : RTX-VMS
Level : LOW	%Solids : 84
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	7.4	3.4	U
75-34-3	1,1-Dichloroethane	ND	1.5	0.22	U
67-66-3	Chloroform	ND	2.2	0.21	U
56-23-5	Carbon tetrachloride	ND	1.5	0.34	U
78-87-5	1,2-Dichloropropane	ND	1.5	0.19	U
124-48-1	Dibromochloromethane	ND	1.5	0.21	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.40	U
127-18-4	Tetrachloroethene	ND	0.74	0.29	U
108-90-7	Chlorobenzene	ND	0.74	0.19	U
75-69-4	Trichlorofluoromethane	ND	6.0	1.0	U
107-06-2	1,2-Dichloroethane	ND	1.5	0.38	U
71-55-6	1,1,1-Trichloroethane	ND	0.74	0.25	U
75-27-4	Bromodichloromethane	ND	0.74	0.16	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	0.41	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.74	0.24	U
75-25-2	Bromoform	ND	6.0	0.37	U
79-34-5	1,1,1,2-Tetrachloroethane	ND	0.74	0.25	U
71-43-2	Benzene	ND	0.74	0.25	U
108-88-3	Toluene	ND	1.5	0.81	U
100-41-4	Ethylbenzene	ND	1.5	0.21	U
74-87-3	Chloromethane	ND	6.0	1.4	U
74-83-9	Bromomethane	ND	3.0	0.86	U
75-01-4	Vinyl chloride	ND	1.5	0.50	U
75-00-3	Chloroethane	ND	3.0	0.67	U
75-35-4	1,1-Dichloroethene	ND	1.5	0.35	U



Results Summary
Form 1
Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-07	Date Collected : 07/11/23 11:45
Client ID : TP-07-2.0-4.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/22/23 00:30
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260D	Analyst : AJK
Lab File ID : V29230721N18	Instrument ID : VOA129
Sample Amount : 4.0 g	GC Column : RTX-VMS
Level : LOW	%Solids : 84
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	0.20	U
79-01-6	Trichloroethene	ND	0.74	0.20	U
95-50-1	1,2-Dichlorobenzene	ND	3.0	0.21	U
541-73-1	1,3-Dichlorobenzene	ND	3.0	0.22	U
106-46-7	1,4-Dichlorobenzene	ND	3.0	0.25	U
1634-04-4	Methyl tert butyl ether	ND	3.0	0.30	U
179601-23-1	p/m-Xylene	ND	3.0	0.83	U
95-47-6	o-Xylene	ND	1.5	0.43	U
156-59-2	cis-1,2-Dichloroethene	ND	1.5	0.26	U
100-42-5	Styrene	ND	1.5	0.29	U
75-71-8	Dichlorodifluoromethane	ND	15	1.4	U
67-64-1	Acetone	ND	15	7.2	U
75-15-0	Carbon disulfide	ND	15	6.8	U
78-93-3	2-Butanone	ND	15	3.3	U
108-10-1	4-Methyl-2-pentanone	ND	15	1.9	U
591-78-6	2-Hexanone	ND	15	1.8	U
106-93-4	1,2-Dibromoethane	ND	1.5	0.42	U
104-51-8	n-Butylbenzene	ND	1.5	0.25	U
135-98-8	sec-Butylbenzene	ND	1.5	0.22	U
98-06-6	tert-Butylbenzene	ND	3.0	0.18	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.5	1.5	U
98-82-8	Isopropylbenzene	ND	1.5	0.16	U
99-87-6	p-Isopropyltoluene	ND	1.5	0.16	U
91-20-3	Naphthalene	ND	6.0	0.97	U
103-65-1	n-Propylbenzene	ND	1.5	0.25	U



**Results Summary
Form 1
Volatile Organics by EPA 5035**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-07	Date Collected	: 07/11/23 11:45
Client ID	: TP-07-2.0-4.5 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/22/23 00:30
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V29230721N18	Instrument ID	: VOA129
Sample Amount	: 4.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 84
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	3.0	0.40	U
108-67-8	1,3,5-Trimethylbenzene	ND	3.0	0.29	U
95-63-6	1,2,4-Trimethylbenzene	ND	3.0	0.50	U
79-20-9	Methyl Acetate	ND	6.0	1.4	U
110-82-7	Cyclohexane	ND	15	0.81	U
76-13-1	Freon-113	ND	6.0	1.0	U
108-87-2	Methyl cyclohexane	ND	6.0	0.90	U



**Tentatively Identified Compounds
Form 1
Volatile Organics by EPA 5035**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-07	Date Collected	: 07/11/23 11:45
Client ID	: TP-07-2.0-4.5 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/22/23 00:30
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V29230721N18	Instrument ID	: VOA129
Sample Amount	:	GC Column	:
Level	:	%Solids	: 84
Extract Volume (MeOH)	: NA	Injection Volume	: 1

Number TICS found: 0

Concentration Units: ug/Kg

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
NO TENTATIVELY IDENTIFIED COMPOUNDS				



Results Summary
Form 1
Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-09	Date Collected : 07/11/23 00:00
Client ID : BD-01-3-4 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/22/23 00:50
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260D	Analyst : AJK
Lab File ID : V29230721N19	Instrument ID : VOA129
Sample Amount : 6.7 g	GC Column : RTX-VMS
Level : LOW	%Solids : 91
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	4.1	1.9	U
75-34-3	1,1-Dichloroethane	ND	0.82	0.12	U
67-66-3	Chloroform	ND	1.2	0.12	U
56-23-5	Carbon tetrachloride	ND	0.82	0.19	U
78-87-5	1,2-Dichloropropane	ND	0.82	0.10	U
124-48-1	Dibromochloromethane	ND	0.82	0.12	U
79-00-5	1,1,2-Trichloroethane	ND	0.82	0.22	U
127-18-4	Tetrachloroethene	ND	0.41	0.16	U
108-90-7	Chlorobenzene	ND	0.41	0.10	U
75-69-4	Trichlorofluoromethane	ND	3.3	0.57	U
107-06-2	1,2-Dichloroethane	ND	0.82	0.21	U
71-55-6	1,1,1-Trichloroethane	ND	0.41	0.14	U
75-27-4	Bromodichloromethane	ND	0.41	0.09	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.82	0.22	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.41	0.13	U
75-25-2	Bromoform	ND	3.3	0.20	U
79-34-5	1,1,1,2-Tetrachloroethane	ND	0.41	0.14	U
71-43-2	Benzene	ND	0.41	0.14	U
108-88-3	Toluene	ND	0.82	0.45	U
100-41-4	Ethylbenzene	ND	0.82	0.12	U
74-87-3	Chloromethane	ND	3.3	0.77	U
74-83-9	Bromomethane	ND	1.6	0.48	U
75-01-4	Vinyl chloride	ND	0.82	0.28	U
75-00-3	Chloroethane	ND	1.6	0.37	U
75-35-4	1,1-Dichloroethene	ND	0.82	0.20	U



Results Summary
Form 1
Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-09	Date Collected : 07/11/23 00:00
Client ID : BD-01-3-4 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/22/23 00:50
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260D	Analyst : AJK
Lab File ID : V29230721N19	Instrument ID : VOA129
Sample Amount : 6.7 g	GC Column : RTX-VMS
Level : LOW	%Solids : 91
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.11	U
79-01-6	Trichloroethene	ND	0.41	0.11	U
95-50-1	1,2-Dichlorobenzene	ND	1.6	0.12	U
541-73-1	1,3-Dichlorobenzene	ND	1.6	0.12	U
106-46-7	1,4-Dichlorobenzene	ND	1.6	0.14	U
1634-04-4	Methyl tert butyl ether	ND	1.6	0.16	U
179601-23-1	p/m-Xylene	ND	1.6	0.46	U
95-47-6	o-Xylene	ND	0.82	0.24	U
156-59-2	cis-1,2-Dichloroethene	ND	0.82	0.14	U
100-42-5	Styrene	ND	0.82	0.16	U
75-71-8	Dichlorodifluoromethane	ND	8.2	0.75	U
67-64-1	Acetone	ND	8.2	4.0	U
75-15-0	Carbon disulfide	ND	8.2	3.8	U
78-93-3	2-Butanone	ND	8.2	1.8	U
108-10-1	4-Methyl-2-pentanone	ND	8.2	1.0	U
591-78-6	2-Hexanone	ND	8.2	0.97	U
106-93-4	1,2-Dibromoethane	ND	0.82	0.23	U
104-51-8	n-Butylbenzene	ND	0.82	0.14	U
135-98-8	sec-Butylbenzene	ND	0.82	0.12	U
98-06-6	tert-Butylbenzene	ND	1.6	0.10	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.82	U
98-82-8	Isopropylbenzene	ND	0.82	0.09	U
99-87-6	p-Isopropyltoluene	ND	0.82	0.09	U
91-20-3	Naphthalene	ND	3.3	0.54	U
103-65-1	n-Propylbenzene	ND	0.82	0.14	U



**Results Summary
Form 1
Volatile Organics by EPA 5035**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-09	Date Collected	: 07/11/23 00:00
Client ID	: BD-01-3-4 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/22/23 00:50
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V29230721N19	Instrument ID	: VOA129
Sample Amount	: 6.7 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 91
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	0.22	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.6	0.16	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.6	0.28	U
79-20-9	Methyl Acetate	ND	3.3	0.78	U
110-82-7	Cyclohexane	ND	8.2	0.45	U
76-13-1	Freon-113	ND	3.3	0.57	U
108-87-2	Methyl cyclohexane	ND	3.3	0.50	U



**Tentatively Identified Compounds
Form 1
Volatile Organics by EPA 5035**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-09	Date Collected	: 07/11/23 00:00
Client ID	: BD-01-3-4 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/22/23 00:50
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V29230721N19	Instrument ID	: VOA129
Sample Amount	:	GC Column	:
Level	:	%Solids	: 91
Extract Volume (MeOH)	: NA	Injection Volume	: 1

Number TICS found: 2

Concentration Units: ug/Kg

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
	Unknown	2.46	3.3	J
Total TIC Compounds			3.30J	J



Results Summary
Form 1
Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Lab ID : WG1806697-5
Client ID : WG1806697-5BLANK
Sample Location :
Sample Matrix : SOIL
Analytical Method : 1,8260D
Lab File ID : V29230721N05
Sample Amount : 5.0 g
Level : LOW
Extract Volume (MeOH) : N/A

Lab Number : L2339907
Project Number : 2230119
Date Collected : NA
Date Received : NA
Date Analyzed : 07/21/23 20:00
Dilution Factor : 1
Analyst : LAC
Instrument ID : VOA129
GC Column : RTX-VMS
%Solids : NA
Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	5.0	2.3	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	U
67-66-3	Chloroform	ND	1.5	0.14	U
56-23-5	Carbon tetrachloride	ND	1.0	0.23	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	U
124-48-1	Dibromochloromethane	ND	1.0	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.27	U
127-18-4	Tetrachloroethene	ND	0.50	0.20	U
108-90-7	Chlorobenzene	ND	0.50	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.0	0.70	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	U
75-27-4	Bromodichloromethane	ND	0.50	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.27	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	U
75-25-2	Bromoform	ND	4.0	0.25	U
79-34-5	1,1,1,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.17	U
108-88-3	Toluene	ND	1.0	0.54	U
100-41-4	Ethylbenzene	ND	1.0	0.14	U
74-87-3	Chloromethane	ND	4.0	0.93	U
74-83-9	Bromomethane	ND	2.0	0.58	U
75-01-4	Vinyl chloride	ND	1.0	0.34	U
75-00-3	Chloroethane	ND	2.0	0.45	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Lab ID : WG1806697-5
 Client ID : WG1806697-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260D
 Lab File ID : V29230721N05
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2339907
 Project Number : 2230119
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 07/21/23 20:00
 Dilution Factor : 1
 Analyst : LAC
 Instrument ID : VOA129
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.14	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	U
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U
179601-23-1	p/m-Xylene	ND	2.0	0.56	U
95-47-6	o-Xylene	ND	1.0	0.29	U
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	U
100-42-5	Styrene	0.20	1.0	0.20	J
75-71-8	Dichlorodifluoromethane	ND	10	0.92	U
67-64-1	Acetone	ND	10	4.8	U
75-15-0	Carbon disulfide	ND	10	4.6	U
78-93-3	2-Butanone	ND	10	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U
591-78-6	2-Hexanone	ND	10	1.2	U
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	U
104-51-8	n-Butylbenzene	ND	1.0	0.17	U
135-98-8	sec-Butylbenzene	ND	1.0	0.15	U
98-06-6	tert-Butylbenzene	ND	2.0	0.12	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	1.0	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
99-87-6	p-Isopropyltoluene	ND	1.0	0.11	U
91-20-3	Naphthalene	ND	4.0	0.65	U
103-65-1	n-Propylbenzene	ND	1.0	0.17	U



Results Summary
Form 1
Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Lab ID : WG1806697-5
 Client ID : WG1806697-5BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8260D
 Lab File ID : V29230721N05
 Sample Amount : 5.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2339907
 Project Number : 2230119
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 07/21/23 20:00
 Dilution Factor : 1
 Analyst : LAC
 Instrument ID : VOA129
 GC Column : RTX-VMS
 %Solids : NA
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.27	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.19	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.33	U
79-20-9	Methyl Acetate	ND	4.0	0.95	U
110-82-7	Cyclohexane	ND	10	0.54	U
76-13-1	Freon-113	ND	4.0	0.69	U
108-87-2	Methyl cyclohexane	ND	4.0	0.60	U



**Tentatively Identified Compounds
Form 1
Volatile Organics by GC/MS**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: WG1806697-5	Date Collected	: NA
Client ID	: WG1806697-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 07/21/23 20:00
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V29230721N05	Instrument ID	: VOA129
Sample Amount	:	GC Column	:
Level	:	%Solids	: NA
Extract Volume (MeOH)	: NA	Injection Volume	: 1

Number TICS found: 0

Concentration Units: ug/Kg

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
NO TENTATIVELY IDENTIFIED COMPOUNDS				



Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N13.D
 Acq On : 21 Jul 2023 10:46 pm
 Operator : VOA129:AJK
 Sample : 12339907-02,31,5.91,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 23 15:36:41 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	5.898	96	225059	20.000	ug/L	0.00	
Standard Area 1 = 283796			Recovery =	79.30%			
59) Chlorobenzene-d5	8.735	117	182133	20.000	ug/L	0.00	
Standard Area 1 = 220595			Recovery =	82.56%			
79) 1,4-Dichlorobenzene-d4	10.187	152	102677	20.000	ug/L	0.00	
Standard Area 1 = 120931			Recovery =	84.91%			
System Monitoring Compounds							
36) Dibromofluoromethane	4.965	113	59588	20.124	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	100.62%			
43) 1,2-Dichloroethane-d4	5.563	65	68650	20.880	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	104.40%			
60) Toluene-d8	7.529	98	229112	19.353	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	96.77%			
83) 4-Bromofluorobenzene	9.527	95	94608	20.499	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	102.50%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.069	85	61		N.D.		
3) Chloromethane	1.222	50	61		N.D.		
4) Vinyl chloride	0.000		0		N.D.		
5) Bromomethane	0.000		0		N.D.		
6) Chloroethane	0.000		0		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	2.144	76	62		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	2.679	84	1754	0.670	ug/L	69	
17) Acetone	2.737	43	4027	2.822	ug/L	98	
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	0.000		0		N.D.		
20) Methyl tert-butyl ether	0.000		0		N.D.		
23) 1,1-Dichloroethane	0.000		0		N.D.		
28) cis-1,2-Dichloroethene	0.000		0		N.D.		
31) Cyclohexane	0.000		0		N.D.		
32) Chloroform	0.000		0		N.D.		
34) Carbon tetrachloride	0.000		0		N.D.		
37) 1,1,1-Trichloroethane	0.000		0		N.D.		

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N13.D
 Acq On : 21 Jul 2023 10:46 pm
 Operator : VOA129:AJK
 Sample : 12339907-02,31,5.91,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 23 15:36:41 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2-Butanone	5.149	43	53		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	6.066	83	187		N.D.	
48) Trichloroethene	6.008	95	110		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.576	92	614	0.092	ug/L #	73
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	d
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	8.730	43	48		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	8.787	91	444		N.D.	
76) p/m Xylene	8.892	106	575	0.118	ug/L	83
77) o Xylene	9.170	106	194		N.D.	
78) Styrene	9.217	104	135		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	9.238	105	57		N.D.	
85) n-Propylbenzene	9.621	91	237		N.D.	
87) 1,1,2,2-Tetrachloroethane	9.684	83	50		N.D.	
90) 1,3,5-Trimethylbenzene	9.736	105	344		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	
97) 1,2,4-Trimethylbenzene	9.957	105	811	0.072	ug/L	96
98) sec-Butylbenzene	9.957	105	811		N.D.	
99) p-Isopropyltoluene	10.187	119	59		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
103) n-Butylbenzene	10.182	91	101		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
110) Naphthalene	11.451	128	457		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N13.D
Acq On : 21 Jul 2023 10:46 pm
Operator : VOA129:AJK
Sample : 12339907-02,31,5.91,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 23 15:36:41 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

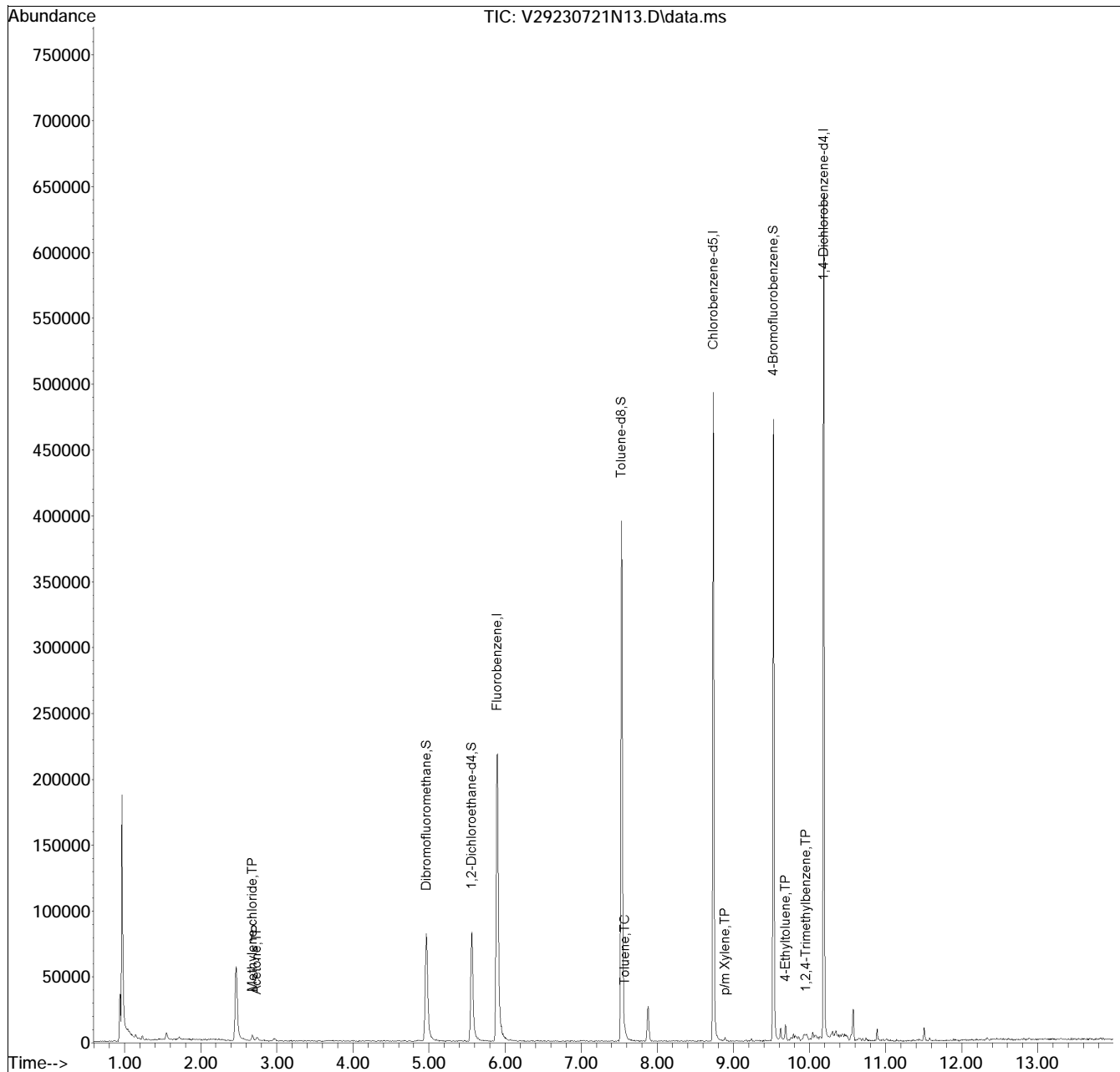
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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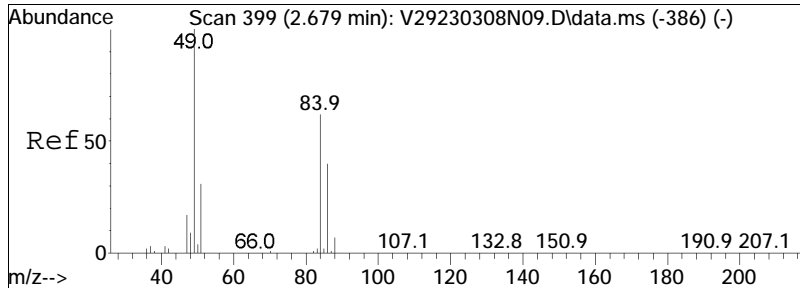
Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N13.D
Acq On : 21 Jul 2023 10:46 pm
Operator : VOA129:AJK
Sample : 12339907-02,31,5.91,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 23 15:36:41 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

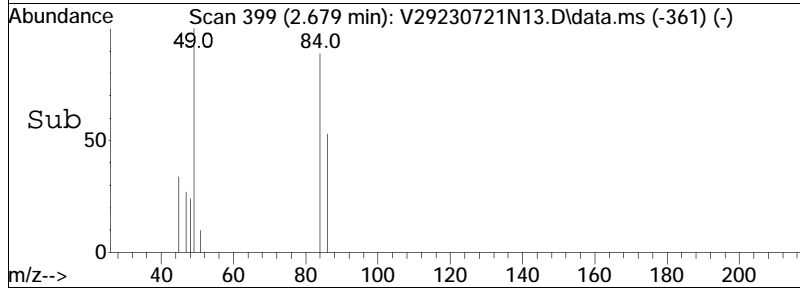
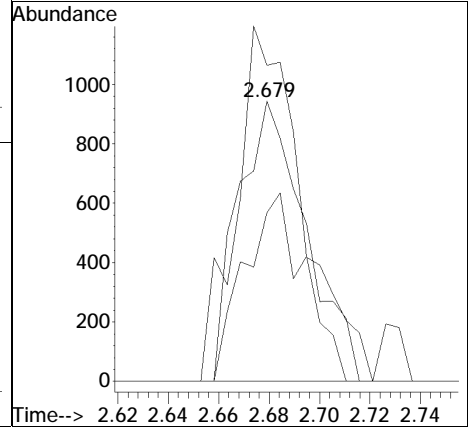
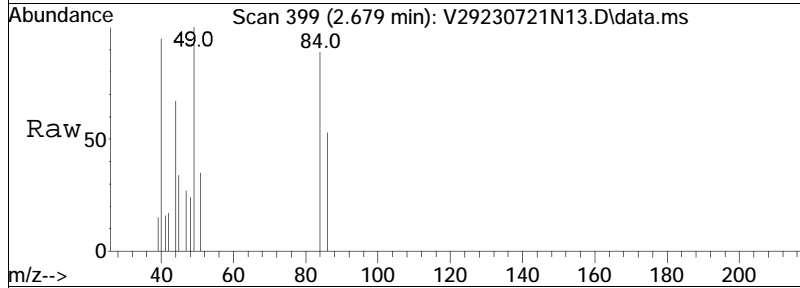
Sub List : 8260-CurveSoil - Megamix plus Diox21N01.D•

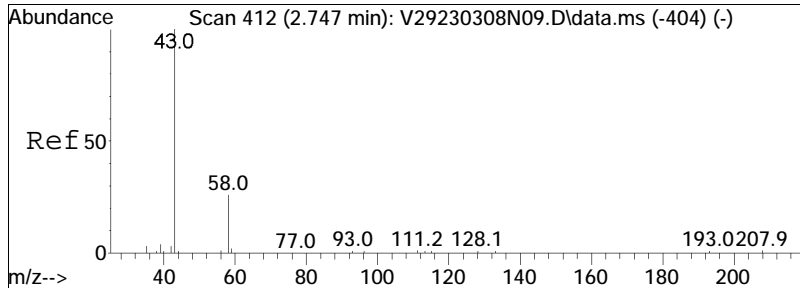




#15
 Methylene chloride
 Concen: 0.67 ug/L
 RT: 2.679 min Scan# 399
 Delta R.T. 0.000 min
 Lab File: V29230721N13.D
 Acq: 21 Jul 2023 10:46 pm

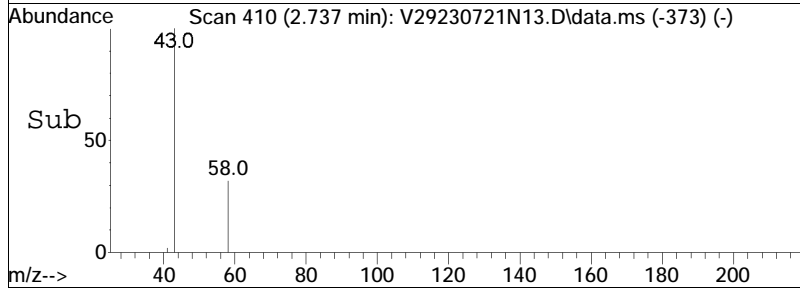
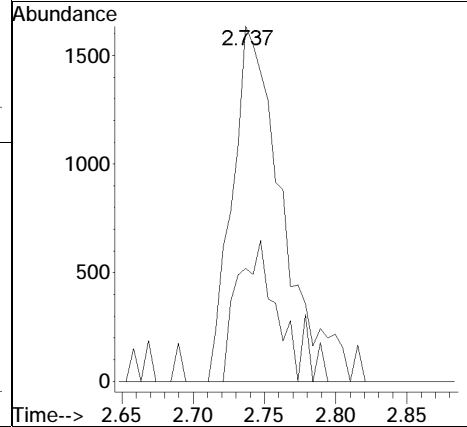
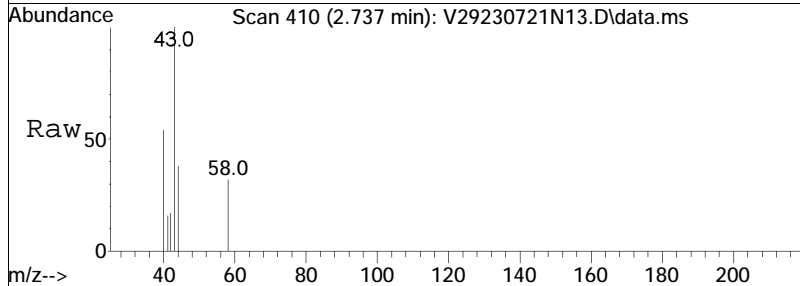
Tgt Ion:	84	Resp:	1754
Ion Ratio	Lower	Upper	
84	100		
86	60.0	40.4	83.8
49	125.8	120.0	249.2

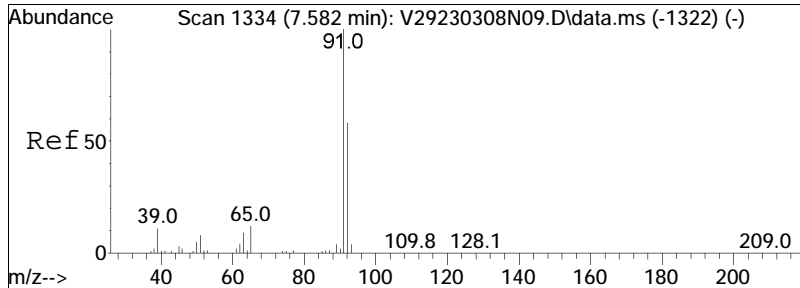




#17
 Acetone
 Concen: 2.82 ug/L
 RT: 2.737 min Scan# 410
 Delta R.T. -0.005 min
 Lab File: V29230721N13.D
 Acq: 21 Jul 2023 10:46 pm

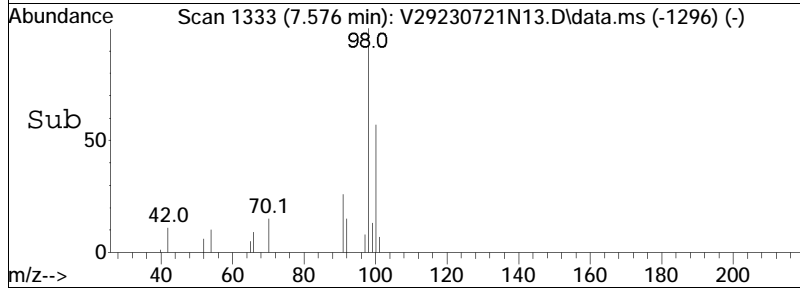
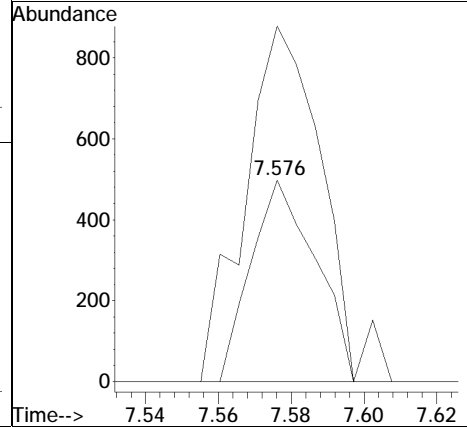
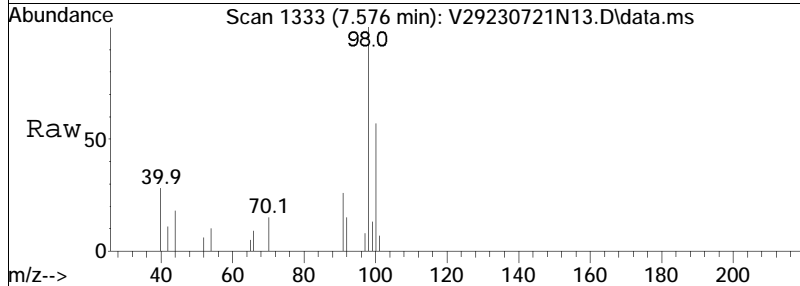
Tgt Ion:	43	Resp:	4027
Ion Ratio	100	Lower	Upper
58	29.1	24.2	36.4

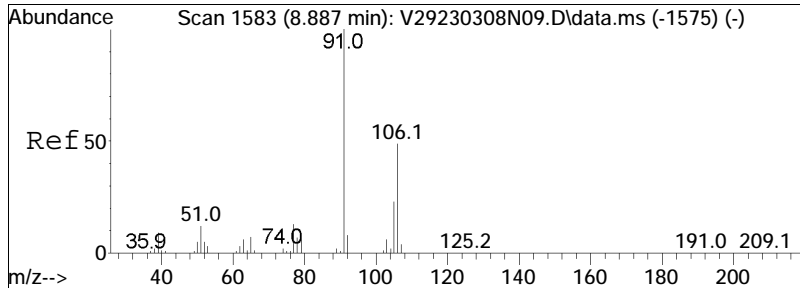




#61
 Toluene
 Concen: 0.09 ug/L
 RT: 7.576 min Scan# 1333
 Delta R.T. -0.006 min
 Lab File: V29230721N13.D
 Acq: 21 Jul 2023 10:46 pm

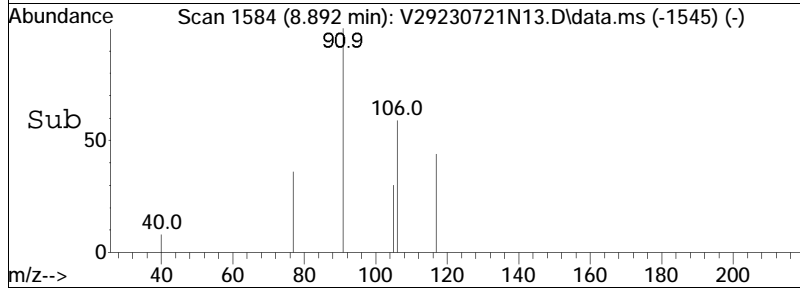
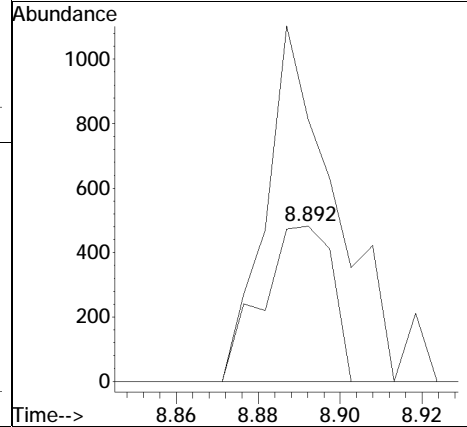
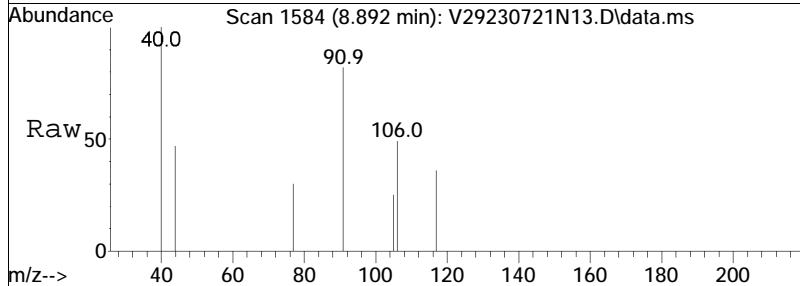
Tgt Ion:	92	Resp:	614
Ion Ratio	Lower	Upper	
92	100		
91	212.1	139.8	209.6#

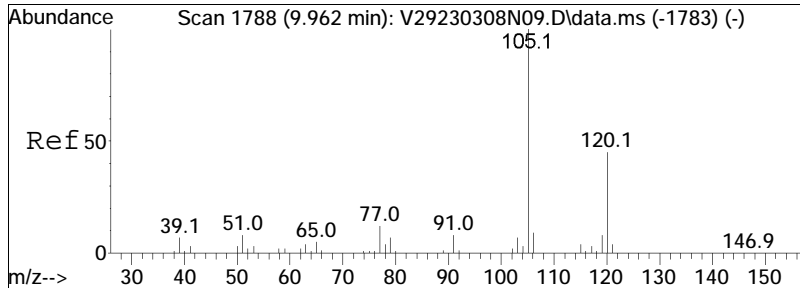




#76
 p/m Xylene
 Concen: 0.12 ug/L
 RT: 8.892 min Scan# 1584
 Delta R.T. 0.005 min
 Lab File: V29230721N13.D
 Acq: 21 Jul 2023 10:46 pm

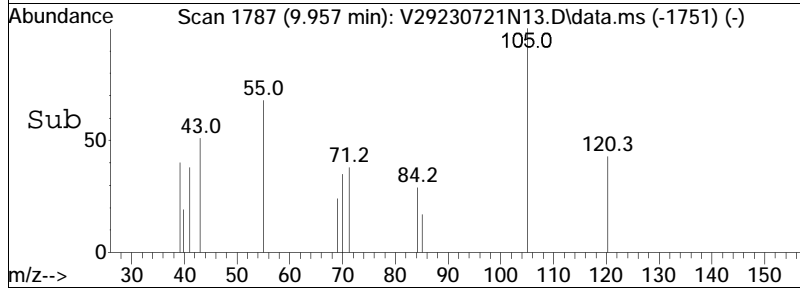
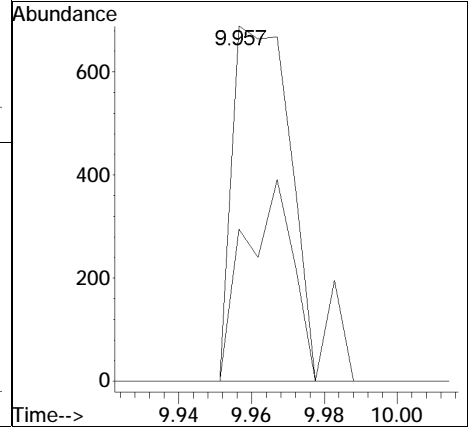
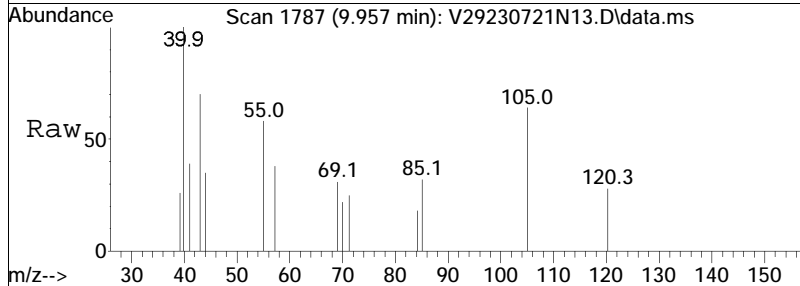
Tgt Ion	106	Resp:	575
Ion Ratio	Lower	Upper	
106	100		
91	233.9	166.4	249.6





#97
 1,2,4-Trimethylbenzene
 Concen: 0.07 ug/L
 RT: 9.957 min Scan# 1787
 Delta R.T. -0.010 min
 Lab File: V29230721N13.D
 Acq: 21 Jul 2023 10:46 pm

Tgt Ion	Resp	Lower	Upper
105	100		
120	44.3	33.4	50.0



Manual Integration Report

Data Path : K:\VOA129\2023\230721N\ QMethod : V129_230308N_8260.m
Data File : V29230721N13.D Operator : VOA129:AJK
Date Inj'd : 7/21/2023 10:46 pm Instrument : VOA 129
Sample : 12339907-02,31,5.91,5,,b Quant Date : 7/23/2023 3:29 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N13.D
 Acq On : 21 Jul 2023 10:46 pm
 Operator : VOA129:AJK
 Sample : 12339907-02,31,5.91,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.1
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Title : VOLATILES BY GC/MS

Signal : TIC: V29230721N13.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	0.938	63	67	70	rBV2	35949	44566	7.22%	1.242%
2	0.965	70	72	85	rVB	181700	200477	32.46%	5.588%
3	2.464	349	358	375	rBV	56209	123856	20.05%	3.452%
4	4.965	826	835	856	rBV2	81567	194539	31.50%	5.422%
5	5.563	939	949	964	rBV2	82912	181152	29.33%	5.049%
6	5.898	1003	1013	1043	rBV	218166	475287	76.96%	13.247%
7	7.529	1317	1324	1344	rBV	394868	609970	98.77%	17.001%
8	7.880	1382	1391	1399	rBV2	26983	43509	7.04%	1.213%
9	8.735	1543	1554	1574	rBV	492622	560962	90.83%	15.635%
10	9.527	1698	1705	1716	rBV	472229	501660	81.23%	13.983%
11	10.187	1825	1831	1846	rBV	639576	617589	100.00%	17.214%
12	10.570	1894	1904	1909	rVB	23876	34190	5.54%	0.953%

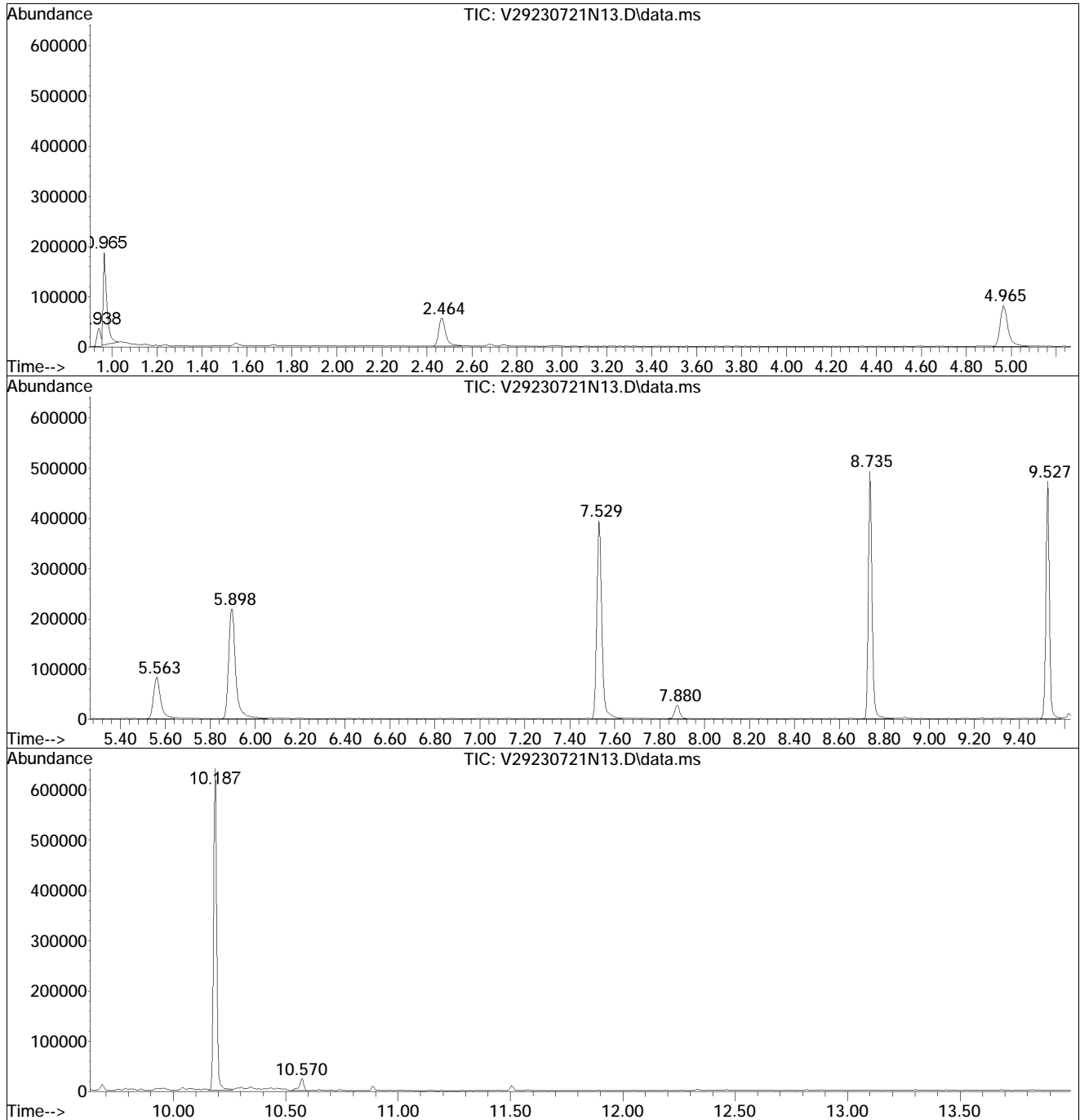
Sum of corrected areas: 3587757

LSC Report - Integrated Chromatogram

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N13.D
Acq On : 21 Jul 2023 10:46 pm
Operator : VOA129:AJK
Sample : 12339907-02,31,5.91,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 13 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p



Library Search Compound Report

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N13.D
 Acq On : 21 Jul 2023 10:46 pm
 Operator : VOA129:AJK
 Sample : 12339907-02,31,5.91,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 13 Sample Multiplier: 1

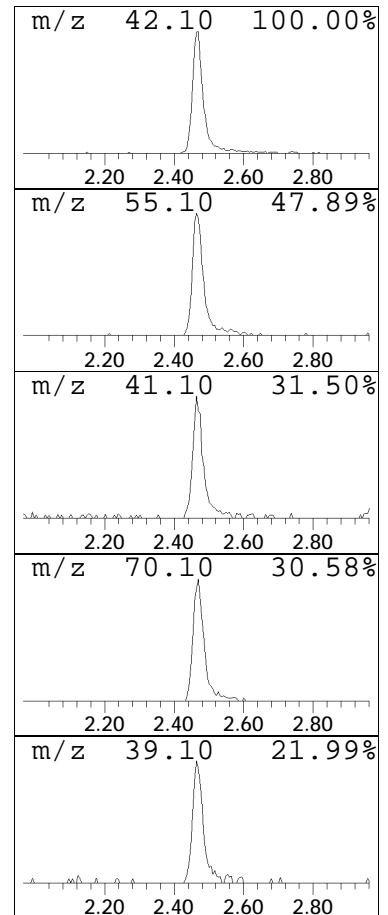
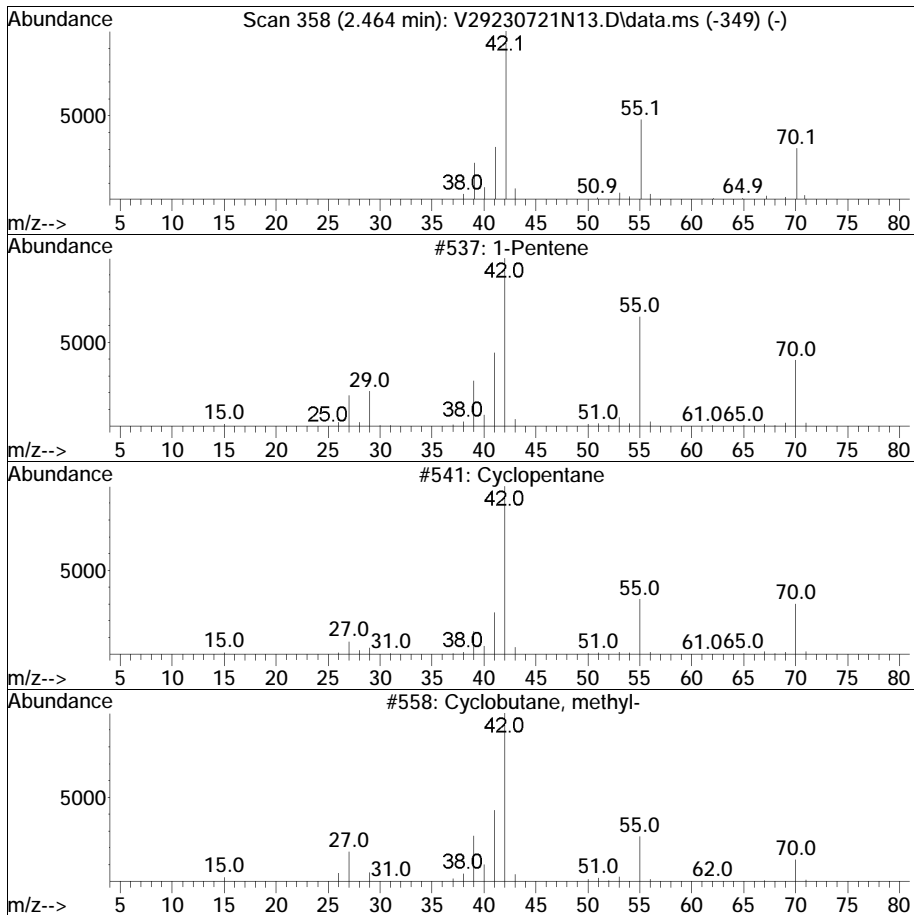
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: rteint.p

 Peak Number 2 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.464	5.21 ug/L	123856	Fluorobenzene	5.898

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1-Pentene	70	C5H10	000109-67-1	91
2		Cyclopentane	70	C5H10	000287-92-3	86
3		Cyclobutane, methyl-	70	C5H10	000598-61-8	78
4		Cyclopropane, ethyl-	70	C5H10	001191-96-4	39
5		Cyclobutanone	70	C4H6O	001191-95-3	9



Tentatively Identified Compound (LSC) summary

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N13.D
 Acq On : 21 Jul 2023 10:46 pm
 Operator : VOA129:AJK
 Sample : 12339907-02,31,5.91,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 13 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: rteint.p

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Unknown	2.464	5.2	ug/L	123856	1	5.898	475287	20.0

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N14.D
 Acq On : 21 Jul 2023 11:07 pm
 Operator : VOA129:AJK
 Sample : 12339907-03,31,5.72,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 23 15:37:18 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	5.898	96	219521	20.000	ug/L	0.00	
Standard Area 1 = 283796			Recovery =	77.35%			
59) Chlorobenzene-d5	8.735	117	167719	20.000	ug/L	0.00	
Standard Area 1 = 220595			Recovery =	76.03%			
79) 1,4-Dichlorobenzene-d4	10.187	152	81750	20.000	ug/L	0.00	
Standard Area 1 = 120931			Recovery =	67.60%			
System Monitoring Compounds							
36) Dibromofluoromethane	4.970	113	61068	21.144	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	105.72%			
43) 1,2-Dichloroethane-d4	5.558	65	67698	21.110	ug/L	-0.01	
Spiked Amount 20.000	Range 70 - 130		Recovery =	105.55%			
60) Toluene-d8	7.529	98	223912	20.539	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	102.70%			
83) 4-Bromofluorobenzene	9.527	95	80844	22.001	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	110.01%			
Target Compounds							
2) Dichlorodifluoromethane	0.933	85	119		N.D.		Qvalue
3) Chloromethane	1.206	50	57		N.D.		
4) Vinyl chloride	0.000		0		N.D.		
5) Bromomethane	1.505	94	55		N.D.		
6) Chloroethane	0.000		0		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	0.000		0		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	2.690	84	1092	0.427	ug/L		85
17) Acetone	2.747	43	3993	2.920	ug/L		92
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	0.000		0		N.D.	d	
20) Methyl tert-butyl ether	0.000		0		N.D.		
23) 1,1-Dichloroethane	0.000		0		N.D.		
28) cis-1,2-Dichloroethene	0.000		0		N.D.		
31) Cyclohexane	0.000		0		N.D.		
32) Chloroform	0.000		0		N.D.		
34) Carbon tetrachloride	0.000		0		N.D.		
37) 1,1,1-Trichloroethane	0.000		0		N.D.		

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N14.D
 Acq On : 21 Jul 2023 11:07 pm
 Operator : VOA129:AJK
 Sample : 12339907-03,31,5.72,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 23 15:37:18 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2-Butanone	5.149	43	50		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	6.072	83	218		N.D.	
48) Trichloroethene	6.045	95	68		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.582	92	453	0.073	ug/L #	68
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	d
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	d
73) Chlorobenzene	8.745	112	58		N.D.	
74) Ethylbenzene	8.787	91	545		N.D.	
76) p/m Xylene	8.887	106	547	0.122	ug/L	92
77) o Xylene	9.160	106	62		N.D.	
78) Styrene	9.207	104	54		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	9.516	105	457		N.D.	
85) n-Propylbenzene	9.674	91	199		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	d
90) 1,3,5-Trimethylbenzene	9.736	105	263		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	
97) 1,2,4-Trimethylbenzene	9.962	105	617		N.D.	
98) sec-Butylbenzene	9.962	105	617		N.D.	
99) p-Isopropyltoluene	10.103	119	137		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
103) n-Butylbenzene	10.350	91	52		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
110) Naphthalene	11.446	128	354		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N14.D
Acq On : 21 Jul 2023 11:07 pm
Operator : VOA129:AJK
Sample : 12339907-03,31,5.72,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 23 15:37:18 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

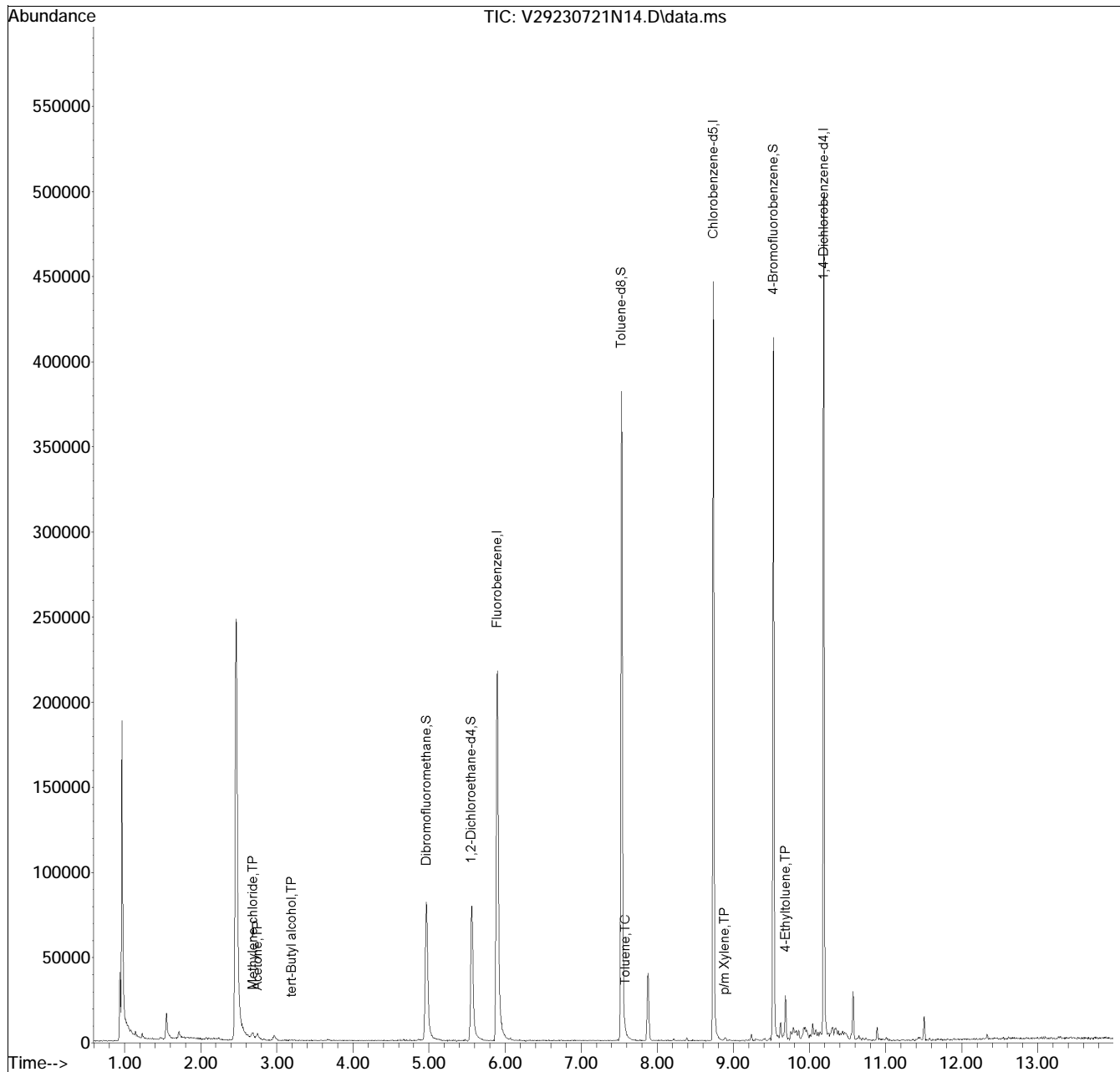
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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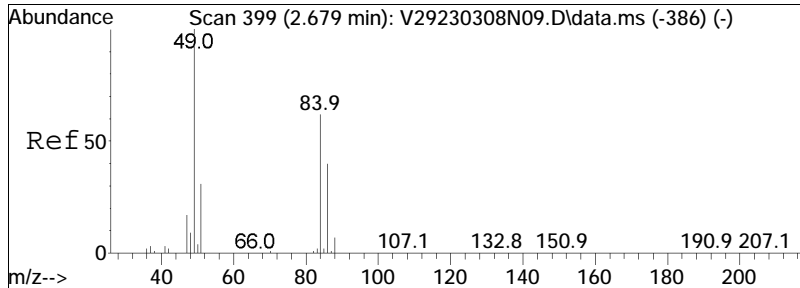
Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N14.D
Acq On : 21 Jul 2023 11:07 pm
Operator : VOA129:AJK
Sample : 12339907-03,31,5.72,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 23 15:37:18 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

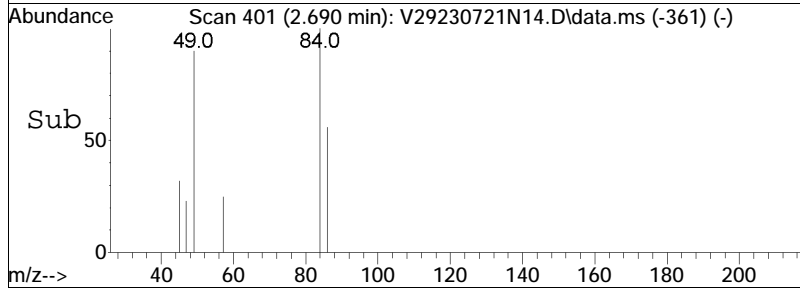
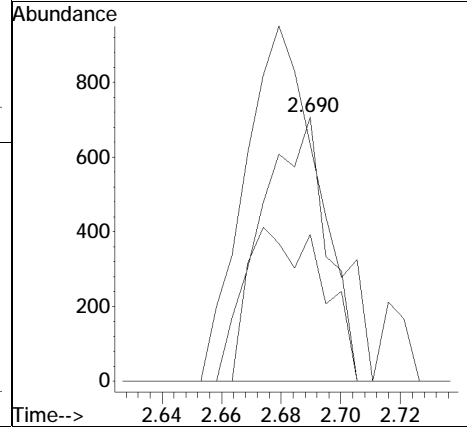
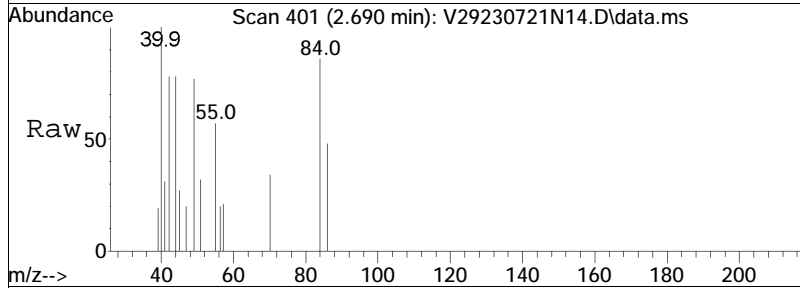
Sub List : 8260-CurveSoil - Megamix plus Diox21N01.D•

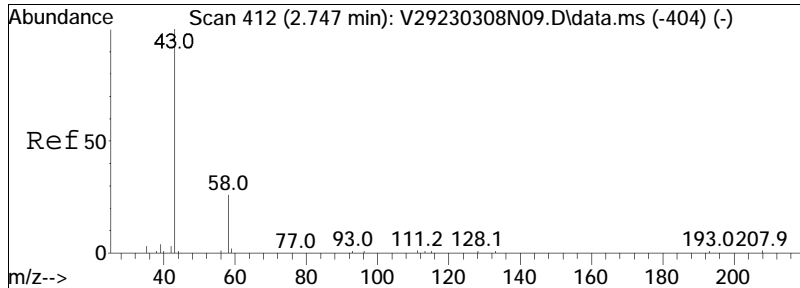




#15
 Methylene chloride
 Concen: 0.43 ug/L
 RT: 2.690 min Scan# 401
 Delta R.T. 0.011 min
 Lab File: V29230721N14.D
 Acq: 21 Jul 2023 11:07 pm

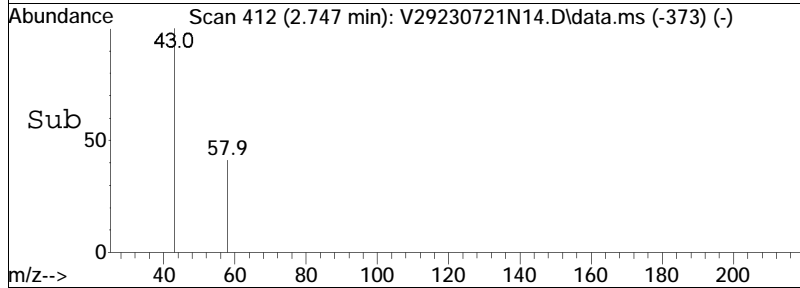
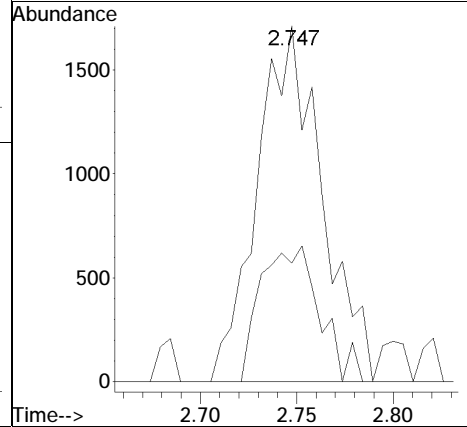
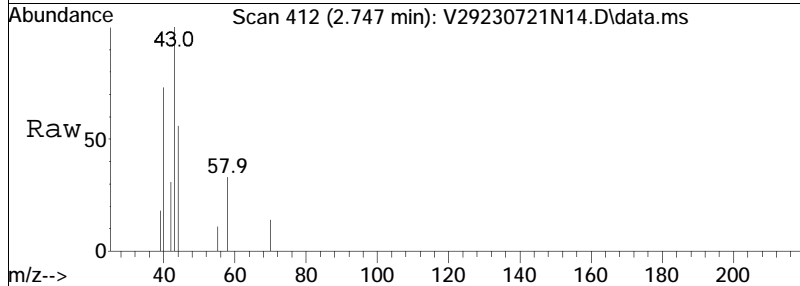
Tgt Ion	Resp	Lower	Upper
84	1092		
84	100		
86	64.6	40.4	83.8
49	156.3	120.0	249.2

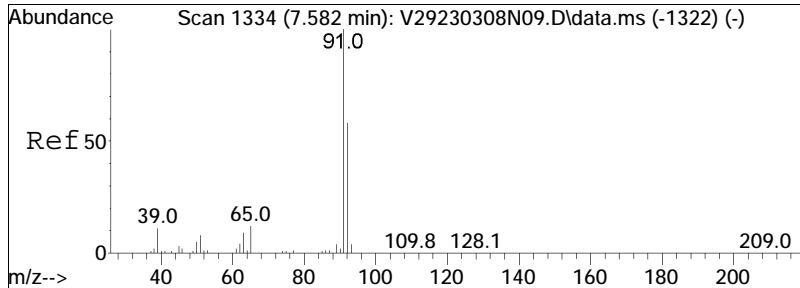




#17
 Acetone
 Concen: 2.92 ug/L
 RT: 2.747 min Scan# 412
 Delta R.T. 0.005 min
 Lab File: V29230721N14.D
 Acq: 21 Jul 2023 11:07 pm

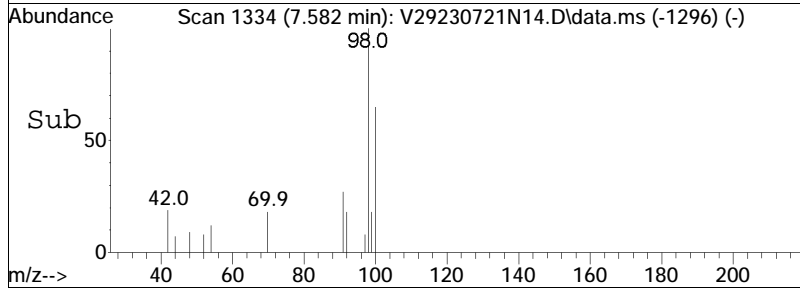
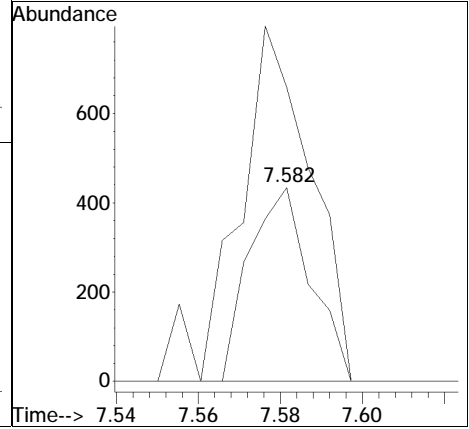
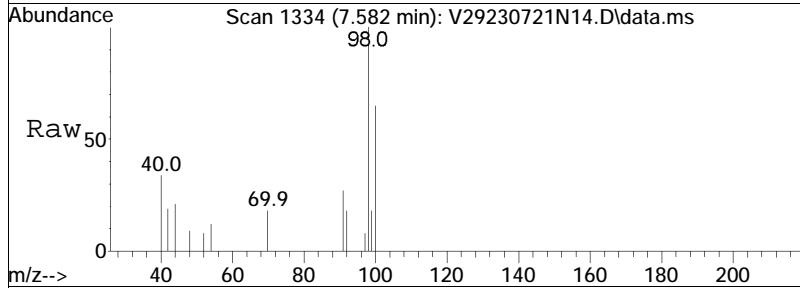
Tgt Ion	Resp	Lower	Upper
43	3993		
58	34.8	24.2	36.4

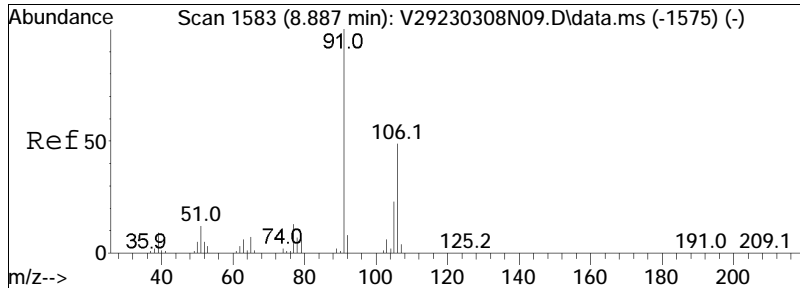




#61
 Toluene
 Concen: 0.07 ug/L
 RT: 7.582 min Scan# 1334
 Delta R.T. -0.000 min
 Lab File: V29230721N14.D
 Acq: 21 Jul 2023 11:07 pm

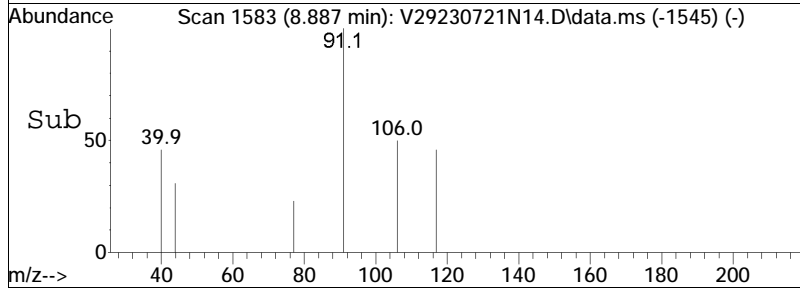
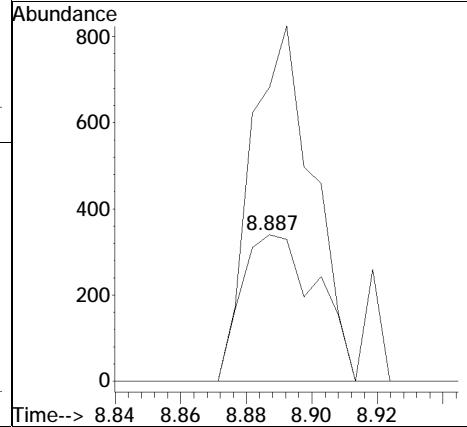
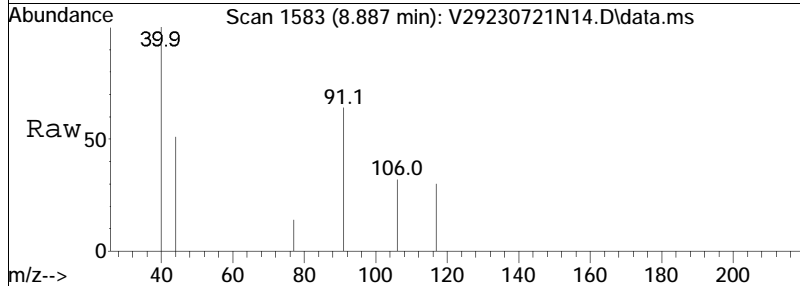
Tgt Ion:	Resp:	Lower	Upper
92	453		
92	100		
91	218.8	139.8	209.6#





#76
 p/m Xylene
 Concen: 0.12 ug/L
 RT: 8.887 min Scan# 1583
 Delta R.T. 0.000 min
 Lab File: V29230721N14.D
 Acq: 21 Jul 2023 11:07 pm

Tgt Ion	Ratio	Lower	Upper
106	100		
91	196.3	166.4	249.6



LSC Area Percent Report

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N14.D
 Acq On : 21 Jul 2023 11:07 pm
 Operator : VOA129:AJK
 Sample : 12339907-03,31,5.72,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.1
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Title : VOLATILES BY GC/MS

Signal : TIC: V29230721N14.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	0.939	63	67	70	rBV2	40211	45909	7.76%	1.175%
2	0.965	70	72	92	rVB	185603	221055	37.39%	5.659%
3	1.552	176	184	198	rBV2	15429	26374	4.46%	0.675%
4	2.464	346	358	384	rBV	247340	562903	95.21%	14.410%
5	4.965	825	835	859	rBV	81266	196778	33.28%	5.038%
6	5.558	938	948	973	rBV2	79449	187849	31.77%	4.809%
7	5.898	1000	1013	1040	rBV	217404	472365	79.89%	12.093%
8	7.529	1316	1324	1352	rBV	381302	591242	100.00%	15.136%
9	7.875	1382	1390	1401	rBV	39922	63670	10.77%	1.630%
10	8.735	1545	1554	1571	rBV	445974	518901	87.76%	13.284%
11	9.527	1698	1705	1719	rBV	413111	467520	79.07%	11.968%
12	9.684	1727	1735	1740	rVB	25959	33440	5.66%	0.856%
13	10.187	1826	1831	1840	rVB	492493	484465	81.94%	12.402%
14	10.570	1895	1904	1911	rVB	28292	33785	5.71%	0.865%

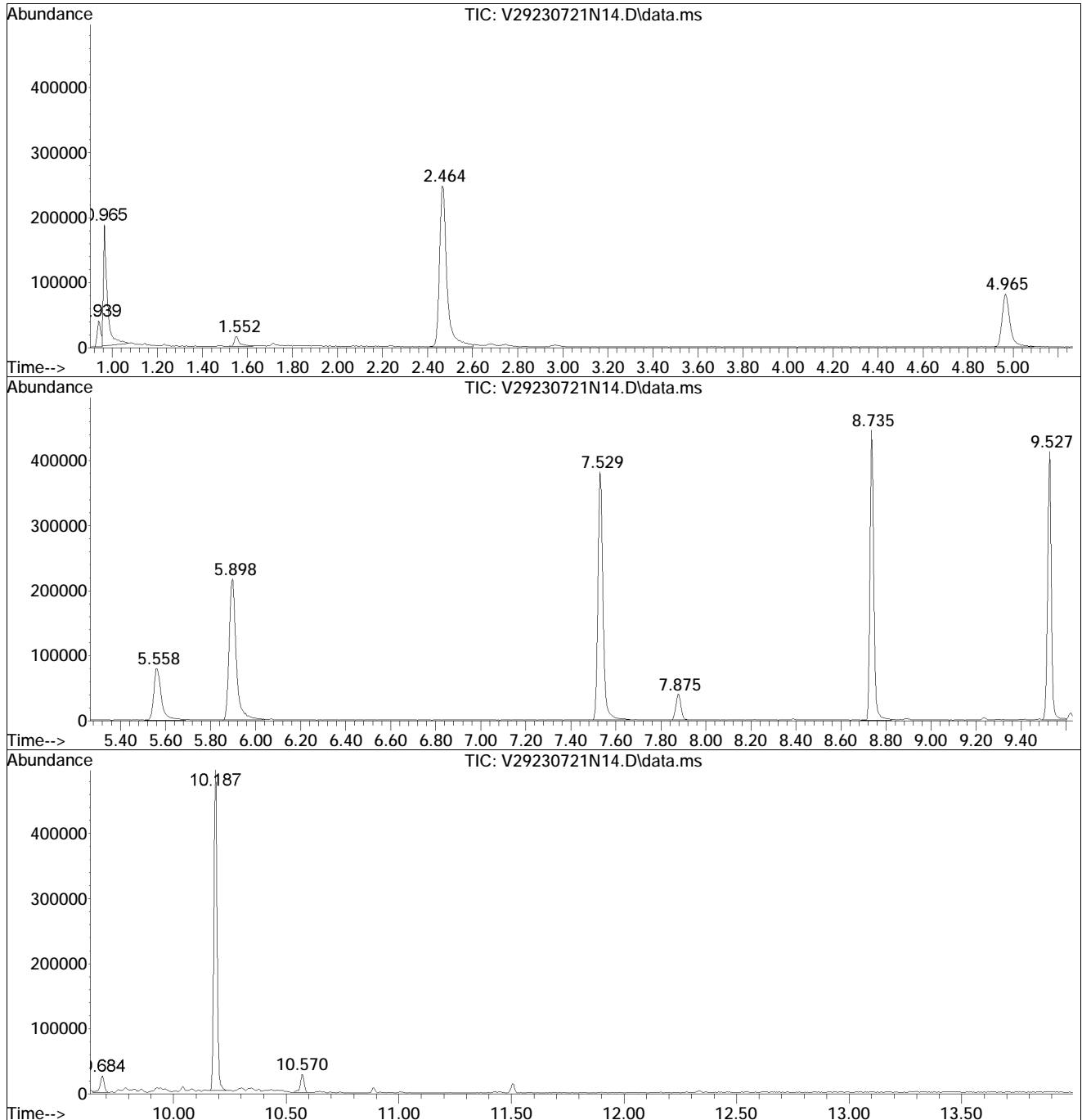
Sum of corrected areas: 3906256

LSC Report - Integrated Chromatogram

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N14.D
Acq On : 21 Jul 2023 11:07 pm
Operator : VOA129:AJK
Sample : 12339907-03,31,5.72,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 14 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p



Library Search Compound Report

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N14.D
 Acq On : 21 Jul 2023 11:07 pm
 Operator : VOA129:AJK
 Sample : 12339907-03,31,5.72,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 14 Sample Multiplier: 1

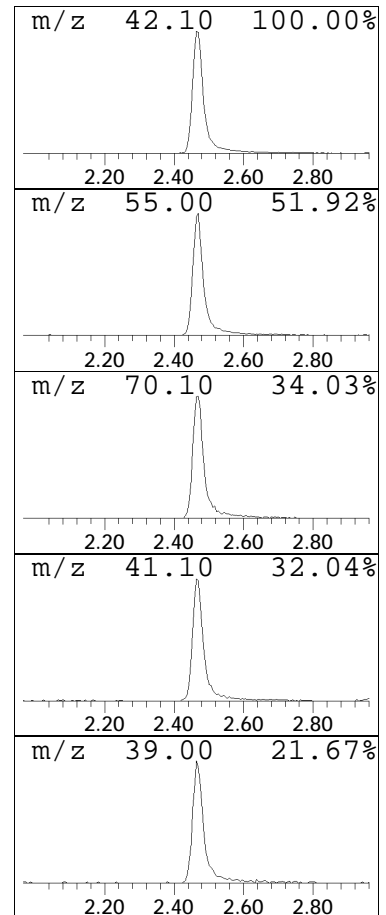
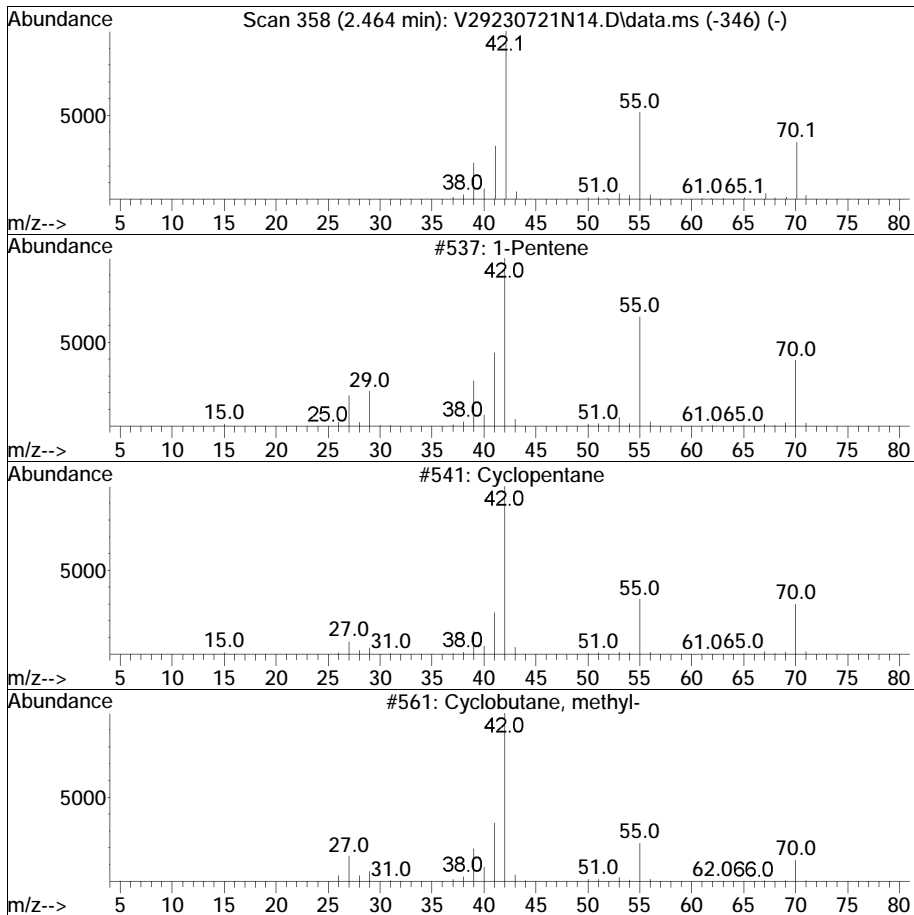
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: rteint.p

 Peak Number 2 1-Pentene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.464	23.83 ug/L	562903	Fluorobenzene	5.898

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1-Pentene	70	C5H10	000109-67-1	90
2		Cyclopentane	70	C5H10	000287-92-3	80
3		Cyclobutane, methyl-	70	C5H10	000598-61-8	72
4		Cyclopropane, ethyl-	70	C5H10	001191-96-4	72
5		Cyclopropane, 1,2-dimethyl-, trans-	70	C5H10	002402-06-4	12



Library Search Compound Report

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N14.D
 Acq On : 21 Jul 2023 11:07 pm
 Operator : VOA129:AJK
 Sample : 12339907-03,31,5.72,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 14 Sample Multiplier: 1

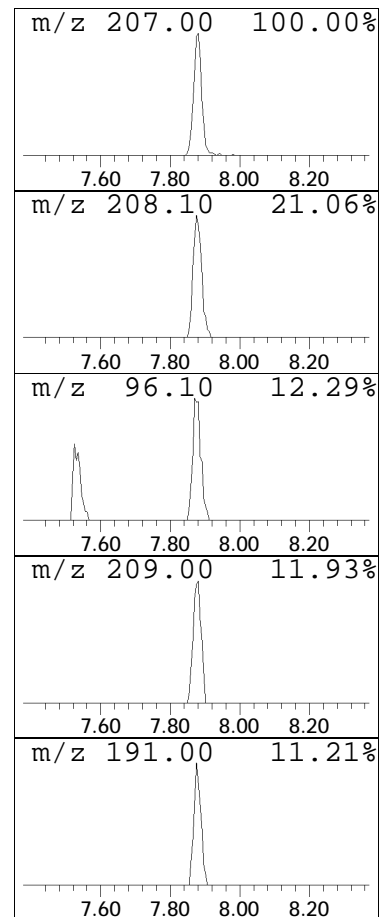
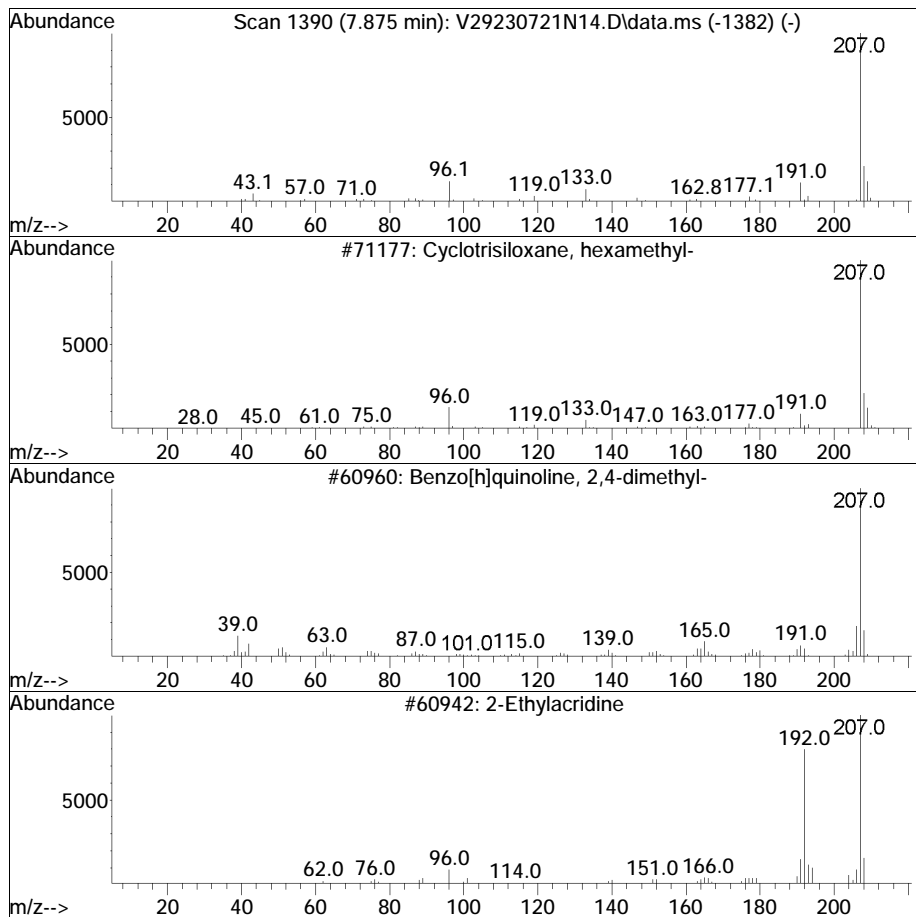
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: rteint.p

 Peak Number 3 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.875	2.45 ug/L	63670	Chlorobenzene-d5	8.735

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	83
2		Benzo[h]quinoline, 2,4-dimethyl-	207	C15H13N	000605-67-4	45
3		2-Ethylacridine	207	C15H13N	055751-83-2	38
4		1-Methyl-3-phenylindole	207	C15H13N	030020-98-5	9
5		N-(2-Acetylcyclopentylidene)cycl...	207	C13H21NO	1000100-48-5	9



Tentatively Identified Compound (LSC) summary

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N14.D
 Acq On : 21 Jul 2023 11:07 pm
 Operator : VOA129:AJK
 Sample : 12339907-03,31,5.72,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 14 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: rteint.p

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard---			
					#	RT	Resp	Conc
1-Pentene	2.464	23.8	ug/L	562903	1	5.898	472365	20.0
Unknown	7.875	2.5	ug/L	63670	2	8.735	518901	20.0

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N15.D
 Acq On : 21 Jul 2023 11:28 pm
 Operator : VOA129:AJK
 Sample : 12339907-04,31,3.99,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 23 15:37:48 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	5.899	96	224784	20.000	ug/L	0.00	
Standard Area 1 = 283796			Recovery =	79.21%			
59) Chlorobenzene-d5	8.735	117	175877	20.000	ug/L	0.00	
Standard Area 1 = 220595			Recovery =	79.73%			
79) 1,4-Dichlorobenzene-d4	10.187	152	93038	20.000	ug/L	0.00	
Standard Area 1 = 120931			Recovery =	76.93%			
System Monitoring Compounds							
36) Dibromofluoromethane	4.965	113	61730	20.873	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	104.36%			
43) 1,2-Dichloroethane-d4	5.563	65	68940	20.994	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	104.97%			
60) Toluene-d8	7.529	98	227317	19.884	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.42%			
83) 4-Bromofluorobenzene	9.527	95	87299	20.875	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	104.38%			
Target Compounds							
2) Dichlorodifluoromethane	0.944	85	166		N.D.		Qvalue
3) Chloromethane	1.211	50	108		N.D.		
4) Vinyl chloride	0.000		0		N.D.		
5) Bromomethane	0.000		0		N.D.		
6) Chloroethane	0.000		0		N.D.		
7) Trichlorofluoromethane	1.715	101	63		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	0.000		0		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	2.679	84	1290	0.493	ug/L		81
17) Acetone	2.737	43	4113	2.956	ug/L		89
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	0.000		0		N.D.	d	
20) Methyl tert-butyl ether	0.000		0		N.D.		
23) 1,1-Dichloroethane	0.000		0		N.D.		
28) cis-1,2-Dichloroethene	0.000		0		N.D.		
31) Cyclohexane	0.000		0		N.D.		
32) Chloroform	0.000		0		N.D.		
34) Carbon tetrachloride	0.000		0		N.D.		
37) 1,1,1-Trichloroethane	0.000		0		N.D.		

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N15.D
 Acq On : 21 Jul 2023 11:28 pm
 Operator : VOA129:AJK
 Sample : 12339907-04,31,3.99,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 23 15:37:48 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	5.406	78	223		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	d
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.571	92	425		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	7.875	75	172		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	8.405	43	75		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	8.793	91	468		N.D.	
76) p/m Xylene	8.887	106	613	0.131	ug/L	92
77) o Xylene	0.000		0		N.D.	
78) Styrene	9.212	104	55		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	9.522	105	139		N.D.	
85) n-Propylbenzene	9.616	91	51		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	9.736	105	462		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	
97) 1,2,4-Trimethylbenzene	9.967	105	647		N.D.	
98) sec-Butylbenzene	9.967	105	647		N.D.	
99) p-Isopropyltoluene	10.109	119	66		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
103) n-Butylbenzene	10.187	91	166		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
110) Naphthalene	11.451	128	426		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N15.D
Acq On : 21 Jul 2023 11:28 pm
Operator : VOA129:AJK
Sample : 12339907-04,31,3.99,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 23 15:37:48 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

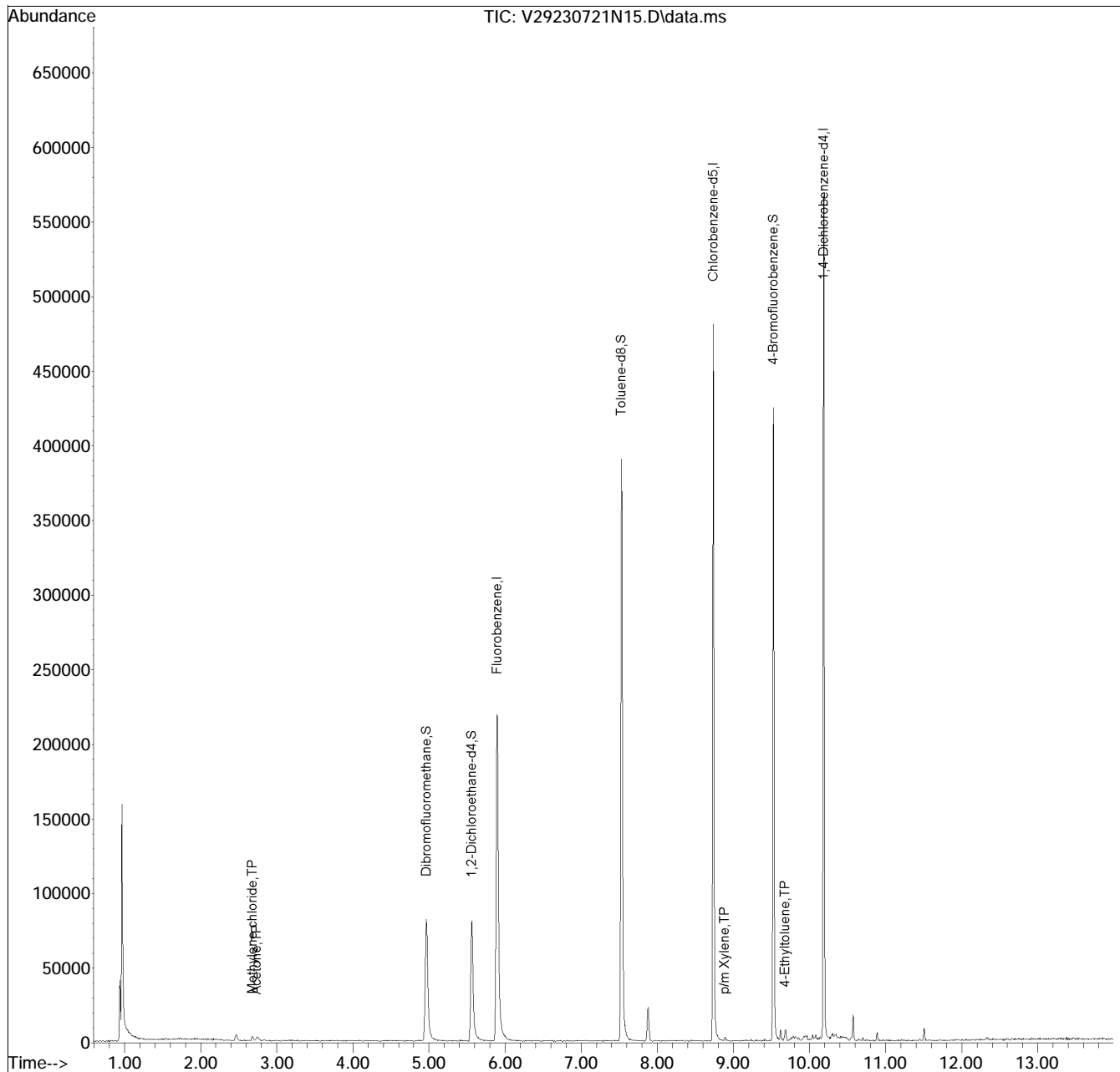
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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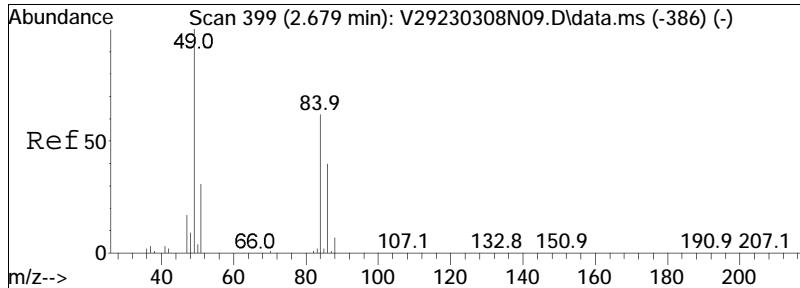
Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N15.D
Acq On : 21 Jul 2023 11:28 pm
Operator : VOA129:AJK
Sample : 12339907-04,31,3.99,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 23 15:37:48 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

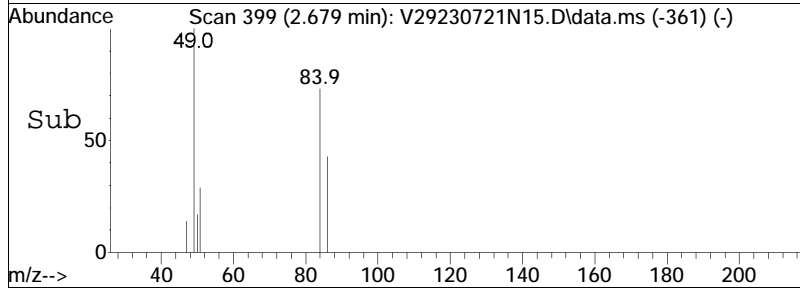
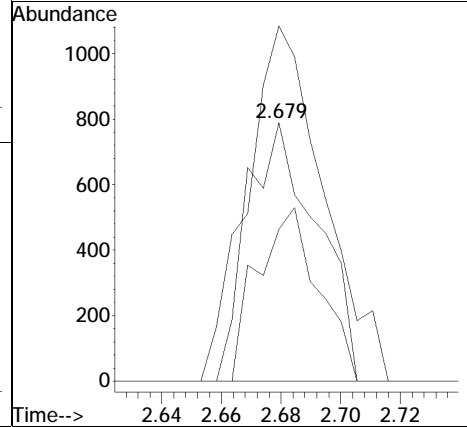
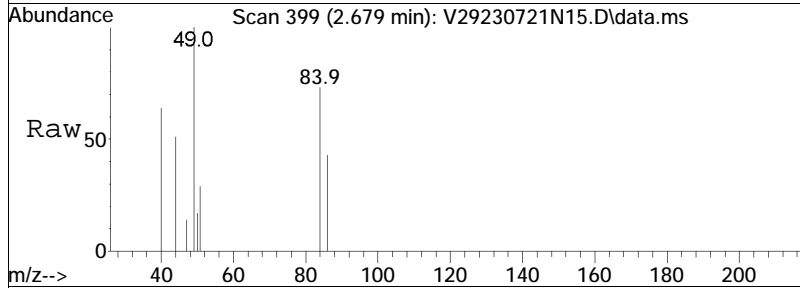
Sub List : 8260-CurveSoil - Megamix plus Diox21N01.D•

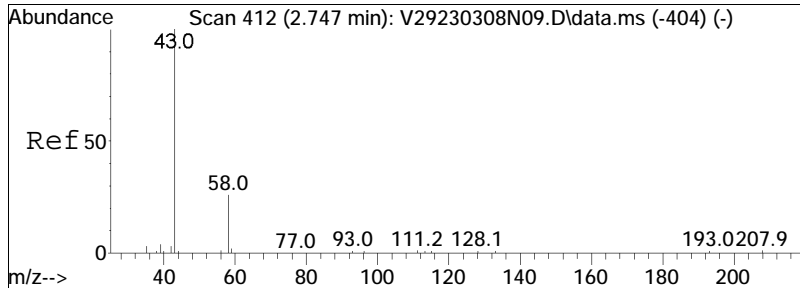




#15
 Methylene chloride
 Concen: 0.49 ug/L
 RT: 2.679 min Scan# 399
 Delta R.T. 0.000 min
 Lab File: V29230721N15.D
 Acq: 21 Jul 2023 11:28 pm

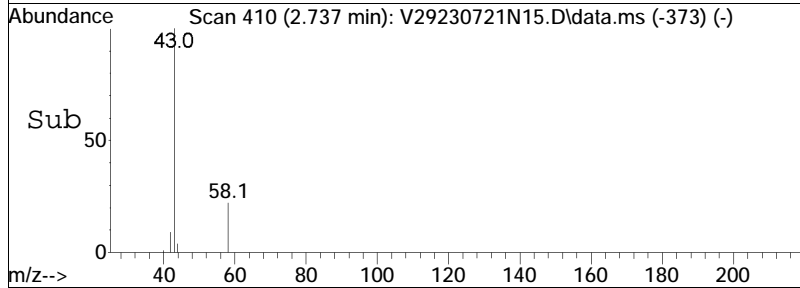
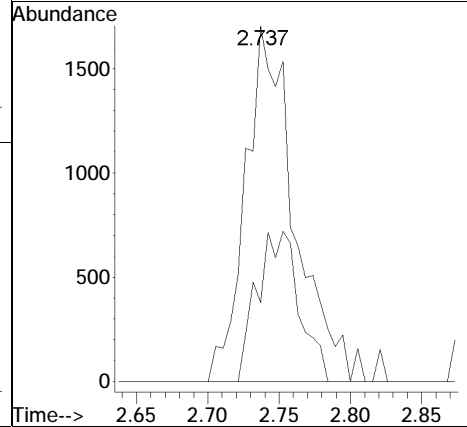
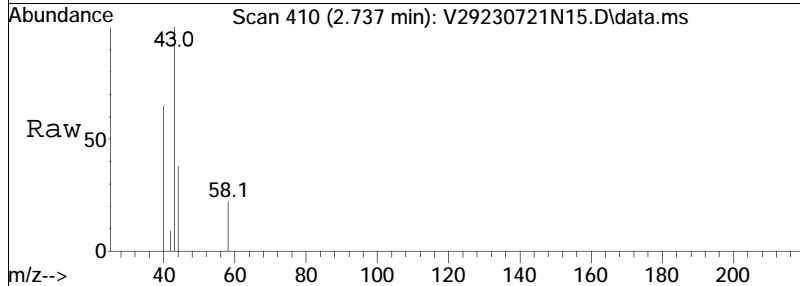
Tgt Ion:	84	Resp:	1290
Ion Ratio	Lower	Upper	
84	100		
86	58.7	40.4	83.8
49	150.9	120.0	249.2

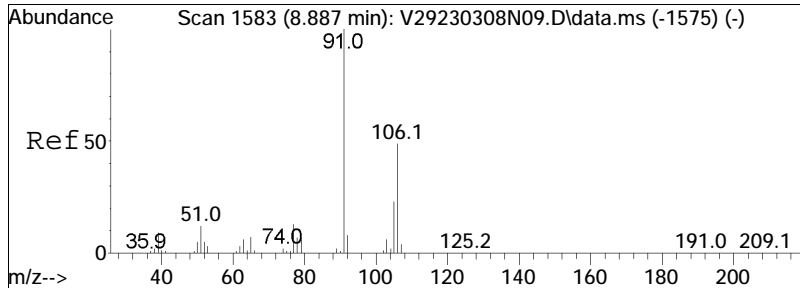




#17
 Acetone
 Concen: 2.96 ug/L
 RT: 2.737 min Scan# 410
 Delta R.T. -0.005 min
 Lab File: V29230721N15.D
 Acq: 21 Jul 2023 11:28 pm

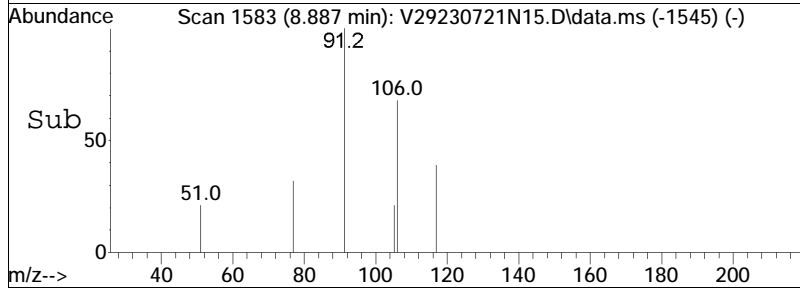
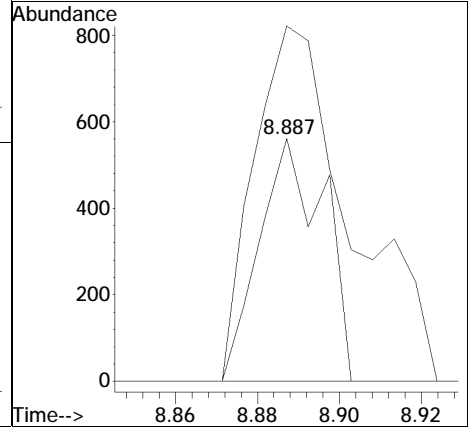
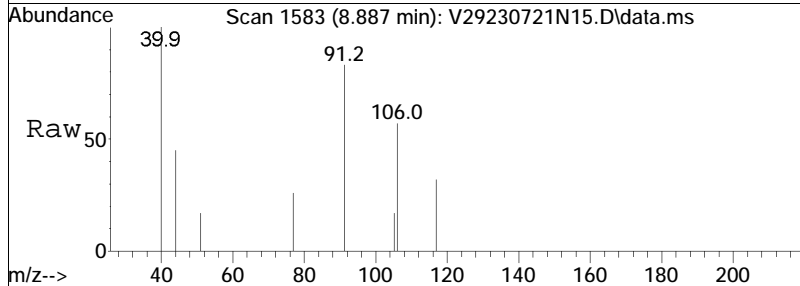
Tgt Ion:	43	Resp:	4113
Ion Ratio	100	Lower	Upper
58	36.0	24.2	36.4





#76
 p/m Xylene
 Concen: 0.13 ug/L
 RT: 8.887 min Scan# 1583
 Delta R.T. 0.000 min
 Lab File: V29230721N15.D
 Acq: 21 Jul 2023 11:28 pm

Tgt Ion	Resp	Lower	Upper
106	100		
91	219.7	166.4	249.6



Manual Integration Report

Data Path : K:\VOA129\2023\230721N\ QMethod : V129_230308N_8260.m
Data File : V29230721N15.D Operator : VOA129:AJK
Date Inj'd : 7/21/2023 11:28 pm Instrument : VOA 129
Sample : 12339907-04,31,3.99,5,,b Quant Date : 7/23/2023 3:29 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N15.D
 Acq On : 21 Jul 2023 11:28 pm
 Operator : VOA129:AJK
 Sample : 12339907-04,31,3.99,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.1 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Title : VOLATILES BY GC/MS

Signal : TIC: V29230721N15.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	0.939	62	67	70	rBV2	40684	46232	7.63%	1.396%
2	0.965	70	72	98	rVB	157624	191807	31.64%	5.792%
3	4.965	824	835	856	rBV2	81748	200712	33.11%	6.061%
4	5.563	938	949	974	rBV	80823	183996	30.35%	5.556%
5	5.893	1001	1012	1040	rBV	218629	478715	78.96%	14.456%
6	7.529	1317	1324	1344	rBV	390055	606280	100.00%	18.308%
7	7.880	1383	1391	1402	rVB	23119	38236	6.31%	1.155%
8	8.735	1548	1554	1574	rBV	480303	538200	88.77%	16.253%
9	9.527	1697	1705	1719	rBV	424604	457604	75.48%	13.819%
10	10.187	1824	1831	1842	rBV	564976	548811	90.52%	16.573%
11	10.570	1895	1904	1911	rVB	17371	20893	3.45%	0.631%

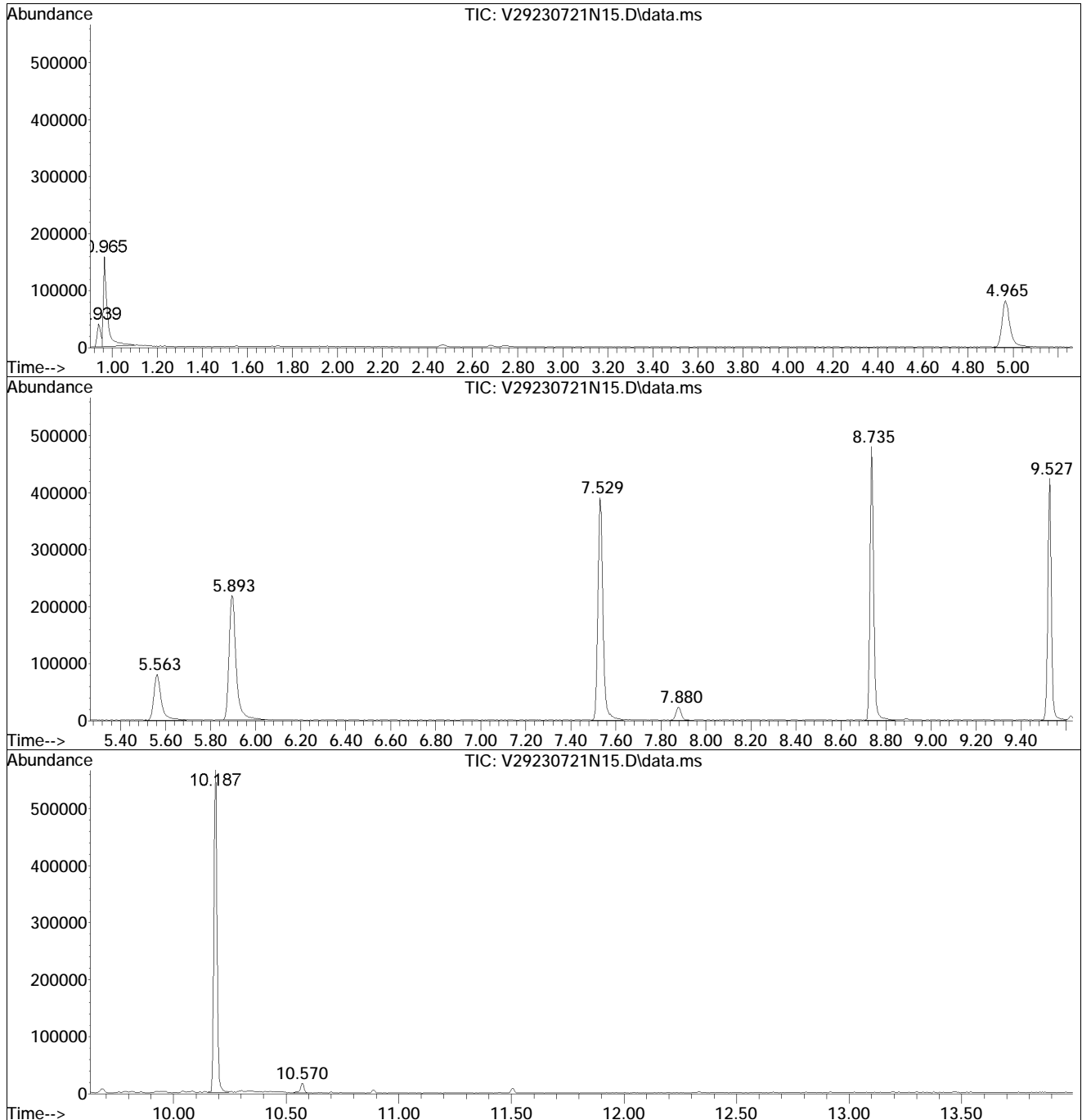
Sum of corrected areas: 3311486

LSC Report - Integrated Chromatogram

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N15.D
Acq On : 21 Jul 2023 11:28 pm
Operator : VOA129:AJK
Sample : 12339907-04,31,3.99,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 15 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p



Library Search Compound Report

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N15.D
Acq On : 21 Jul 2023 11:28 pm
Operator : VOA129:AJK
Sample : 12339907-04,31,3.99,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 15 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

No Library Search Compounds Detected

Tentatively Identified Compound (LSC) summary

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N15.D
Acq On : 21 Jul 2023 11:28 pm
Operator : VOA129:AJK
Sample : 12339907-04,31,3.99,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 15 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N16.D
 Acq On : 21 Jul 2023 11:48 pm
 Operator : VOA129:AJK
 Sample : 12339907-05,31,5.08,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 15:38:15 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	5.898	96	233019	20.000	ug/L	0.00	
Standard Area 1 = 283796			Recovery =	82.11%			
59) Chlorobenzene-d5	8.735	117	184634	20.000	ug/L	0.00	
Standard Area 1 = 220595			Recovery =	83.70%			
79) 1,4-Dichlorobenzene-d4	10.187	152	94808	20.000	ug/L	0.00	
Standard Area 1 = 120931			Recovery =	78.40%			
System Monitoring Compounds							
36) Dibromofluoromethane	4.965	113	63279	20.640	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	103.20%			
43) 1,2-Dichloroethane-d4	5.563	65	70215	20.627	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	103.14%			
60) Toluene-d8	7.534	98	233704	19.474	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	97.37%			
83) 4-Bromofluorobenzene	9.527	95	90582	21.256	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	106.28%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	0.944	85	71		N.D.		
3) Chloromethane	0.000		0		N.D.		
4) Vinyl chloride	0.000		0		N.D.		
5) Bromomethane	0.000		0		N.D.		
6) Chloroethane	0.000		0		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	1.945	96	53		N.D.		
11) Carbon disulfide	2.134	76	83		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	2.684	84	1272	0.469	ug/L	68	
17) Acetone	2.742	43	3415	1.744	ug/L	95	
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	0.000		0		N.D.	d	
20) Methyl tert-butyl ether	0.000		0		N.D.		
23) 1,1-Dichloroethane	0.000		0		N.D.		
28) cis-1,2-Dichloroethene	0.000		0		N.D.		
31) Cyclohexane	0.000		0		N.D.		
32) Chloroform	0.000		0		N.D.		
34) Carbon tetrachloride	0.000		0		N.D.		
37) 1,1,1-Trichloroethane	0.000		0		N.D.		

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N16.D
 Acq On : 21 Jul 2023 11:48 pm
 Operator : VOA129:AJK
 Sample : 12339907-05,31,5.08,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 15:38:15 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2-Butanone	5.185	43	51		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	6.071	83	50		N.D.	
48) Trichloroethene	6.008	95	57		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.581	92	290		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	7.875	75	191		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	8.730	43	124		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	8.903	91	764		N.D.	
76) p/m Xylene	8.887	106	187		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	9.511	105	226		N.D.	
85) n-Propylbenzene	9.621	91	166		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	9.736	105	211		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	
97) 1,2,4-Trimethylbenzene	9.967	105	549		N.D.	
98) sec-Butylbenzene	9.967	105	549		N.D.	
99) p-Isopropyltoluene	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	10.198	146	53		N.D.	
101) 1,4-Dichlorobenzene	10.198	146	53		N.D.	
103) n-Butylbenzene	10.187	91	204		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
110) Naphthalene	11.451	128	390		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N16.D
Acq On : 21 Jul 2023 11:48 pm
Operator : VOA129:AJK
Sample : 12339907-05,31,5.08,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 15:38:15 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

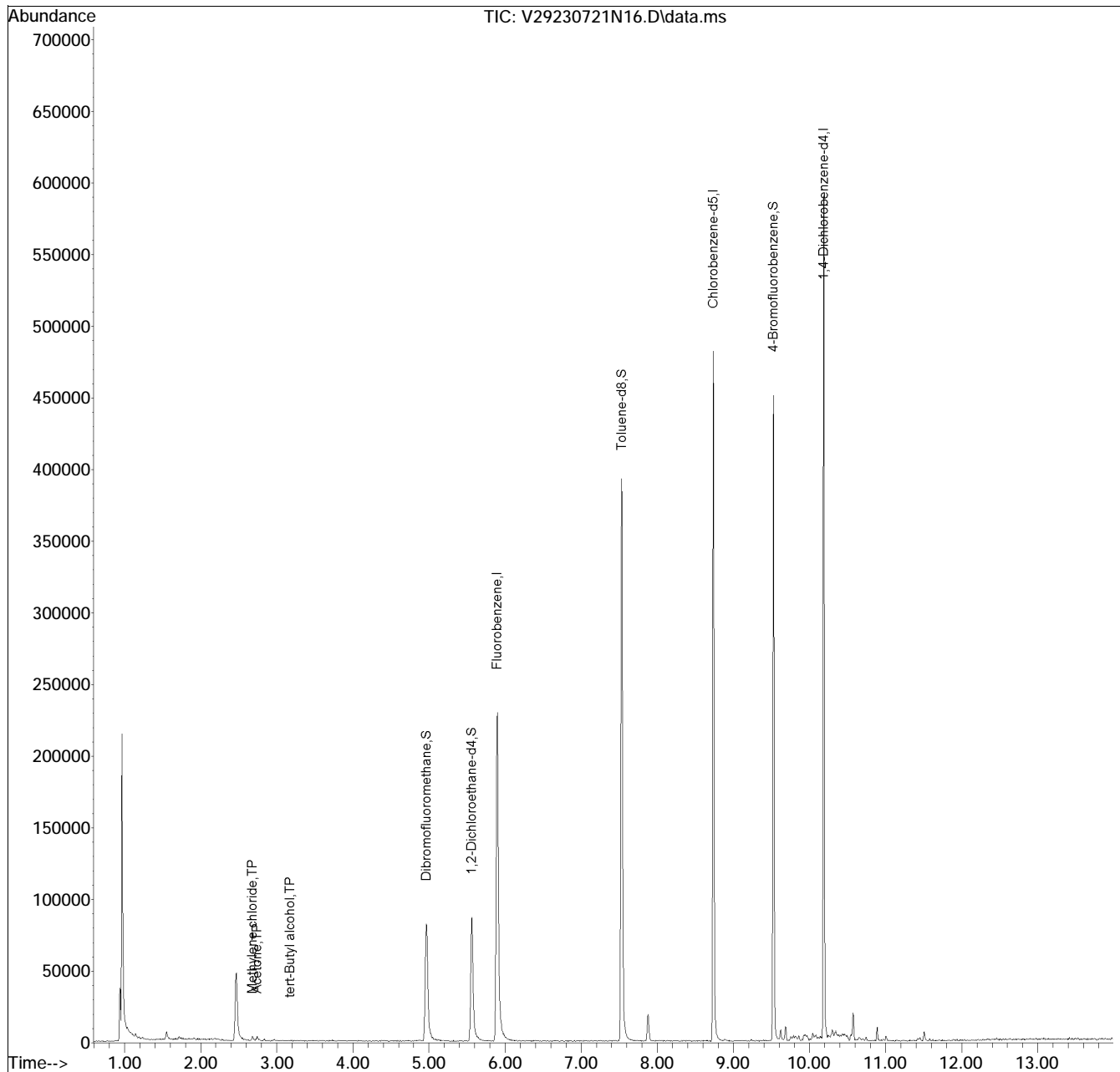
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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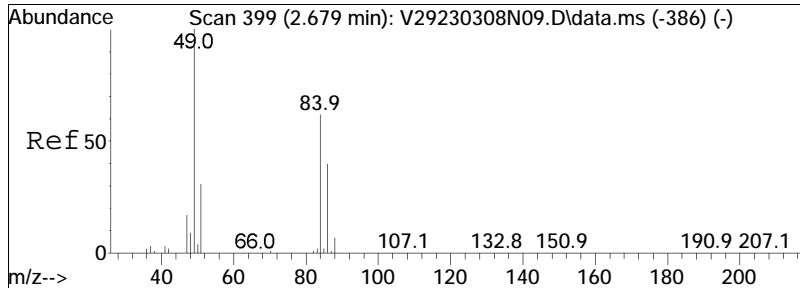
Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N16.D
Acq On : 21 Jul 2023 11:48 pm
Operator : VOA129:AJK
Sample : 12339907-05,31,5.08,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 16 Sample Multiplier: 1

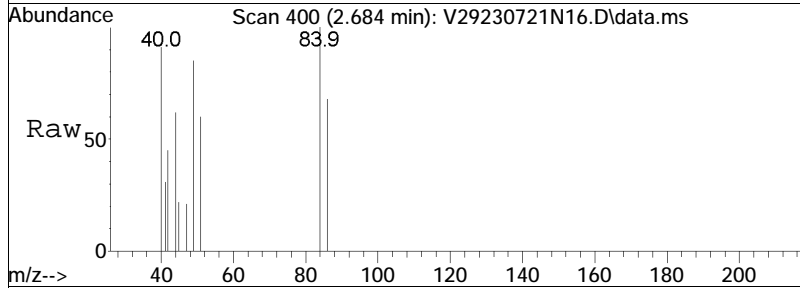
Quant Time: Jul 23 15:38:15 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox21N01.D•

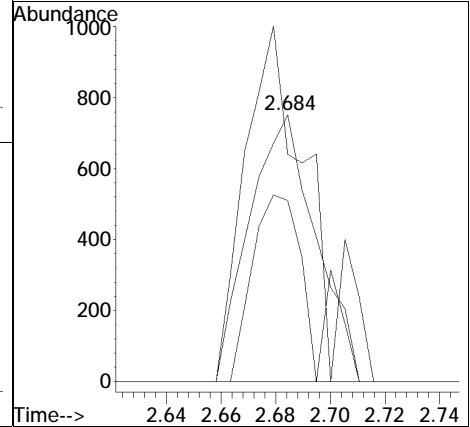
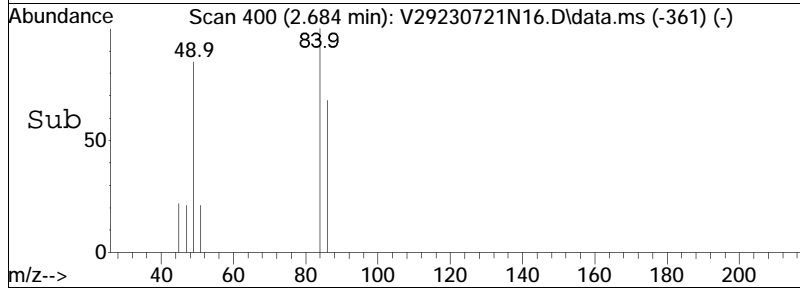


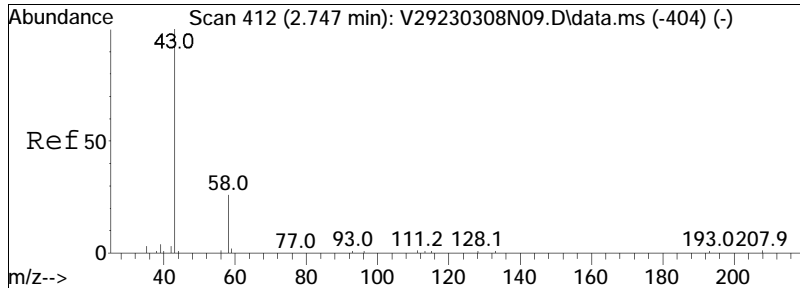


#15
 Methylene chloride
 Concen: 0.47 ug/L
 RT: 2.684 min Scan# 400
 Delta R.T. 0.005 min
 Lab File: V29230721N16.D
 Acq: 21 Jul 2023 11:48 pm



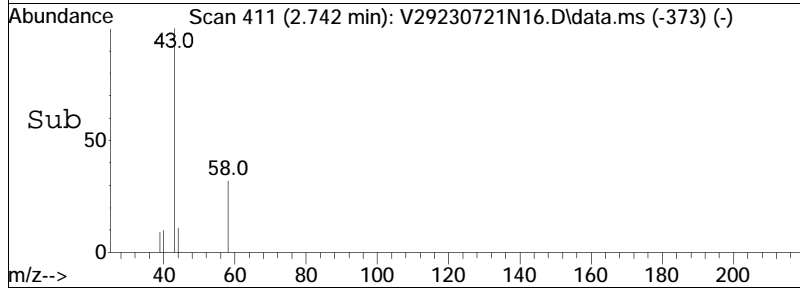
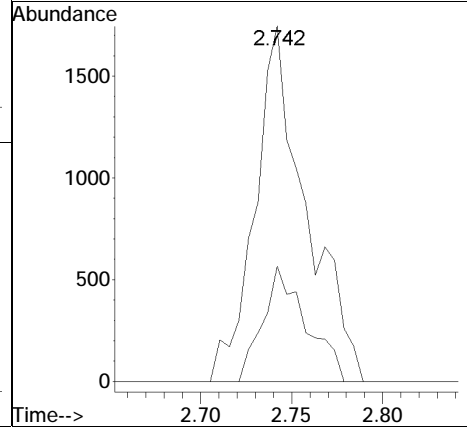
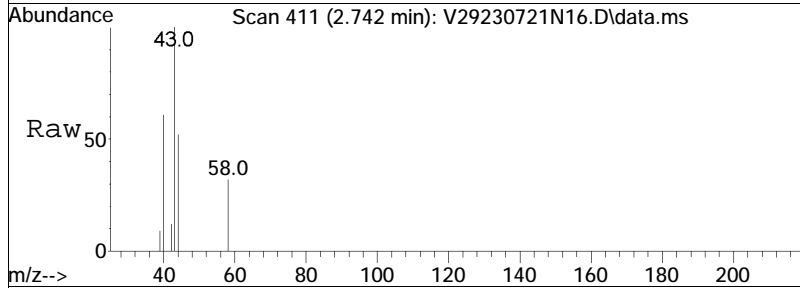
Tgt Ion:	Resp:	Lower	Upper
84	1272		
84	100		
86	50.3	40.4	83.8
49	131.1	120.0	249.2





#17
 Acetone
 Concen: 1.74 ug/L
 RT: 2.742 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: V29230721N16.D
 Acq: 21 Jul 2023 11:48 pm

Tgt Ion:	43	Resp:	3415
Ion Ratio	Lower	Upper	
43	100		
58	27.5	24.2	36.4



Manual Integration Report

Data Path : K:\VOA129\2023\230721N\ QMethod : V129_230308N_8260.m
Data File : V29230721N16.D Operator : VOA129:AJK
Date Inj'd : 7/21/2023 11:48 pm Instrument : VOA 129
Sample : 12339907-05,31,5.08,5,,b Quant Date : 7/23/2023 3:29 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N16.D
 Acq On : 21 Jul 2023 11:48 pm
 Operator : VOA129:AJK
 Sample : 12339907-05,31,5.08,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.1
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Title : VOLATILES BY GC/MS

Signal : TIC: V29230721N16.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	0.938	63	67	70	rBV	37115	45443	7.27%	1.278%
2	0.965	70	72	84	rVB	209086	224080	35.86%	6.301%
3	2.469	348	359	373	rBV2	47487	103419	16.55%	2.908%
4	4.965	823	835	849	rBV	81690	201857	32.30%	5.676%
5	5.563	938	949	972	rBV	86452	193554	30.97%	5.443%
6	5.898	1003	1013	1041	rBV	229497	496953	79.52%	13.974%
7	7.529	1314	1324	1346	rBV	392644	624925	100.00%	17.573%
8	7.880	1385	1391	1404	rVB	18467	29800	4.77%	0.838%
9	8.735	1548	1554	1574	rBV	481631	561164	89.80%	15.780%
10	9.527	1695	1705	1716	rBV	450815	480253	76.85%	13.505%
11	10.187	1826	1831	1840	rBV	587806	566218	90.61%	15.922%
12	10.570	1895	1904	1909	rBV	19583	28483	4.56%	0.801%

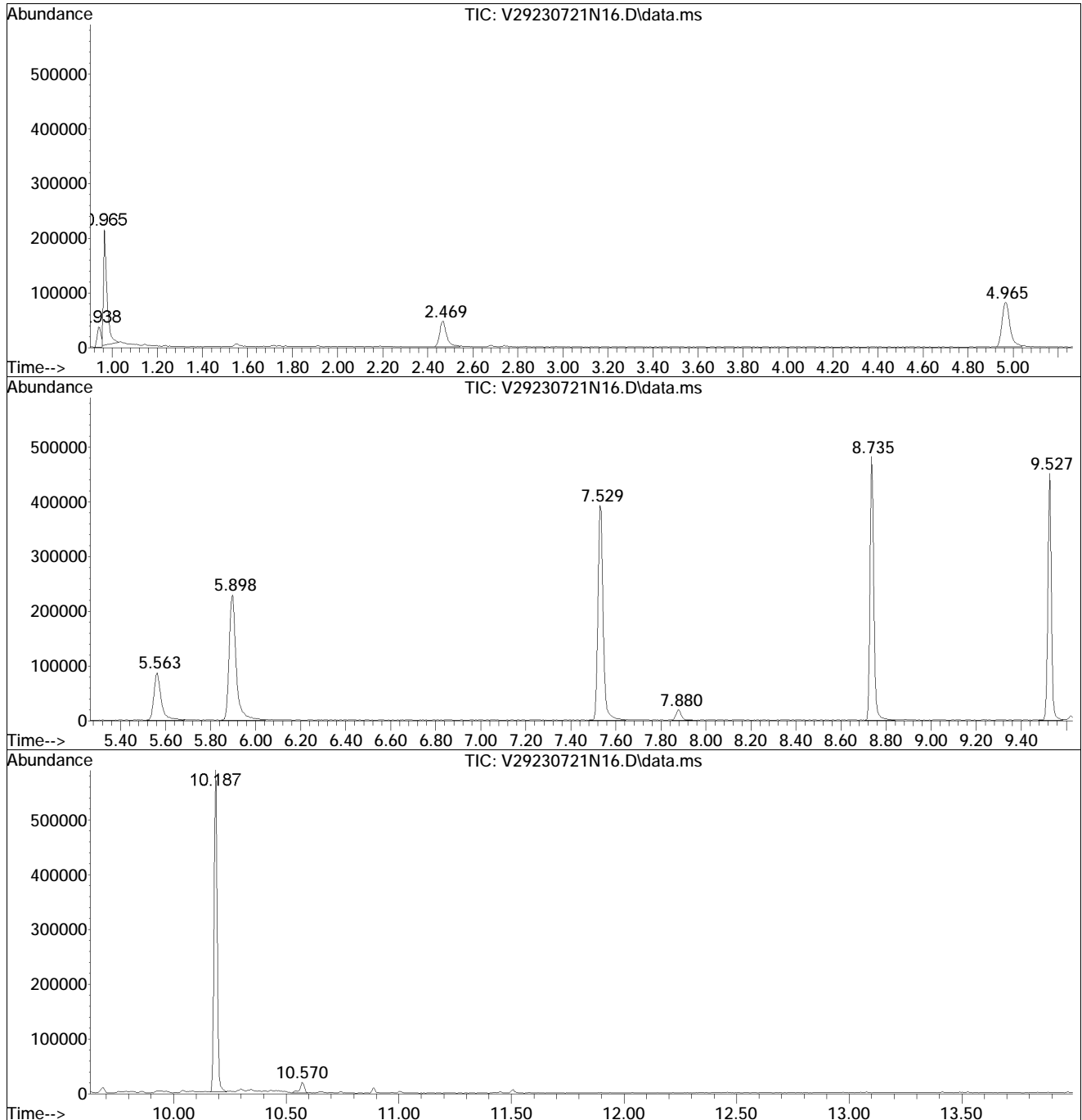
Sum of corrected areas: 3556149

LSC Report - Integrated Chromatogram

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N16.D
Acq On : 21 Jul 2023 11:48 pm
Operator : VOA129:AJK
Sample : 12339907-05,31,5.08,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 16 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p



Library Search Compound Report

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N16.D
 Acq On : 21 Jul 2023 11:48 pm
 Operator : VOA129:AJK
 Sample : 12339907-05,31,5.08,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 16 Sample Multiplier: 1

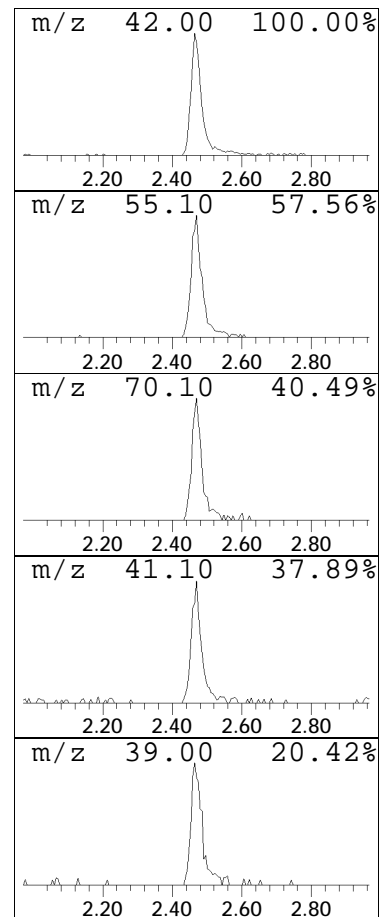
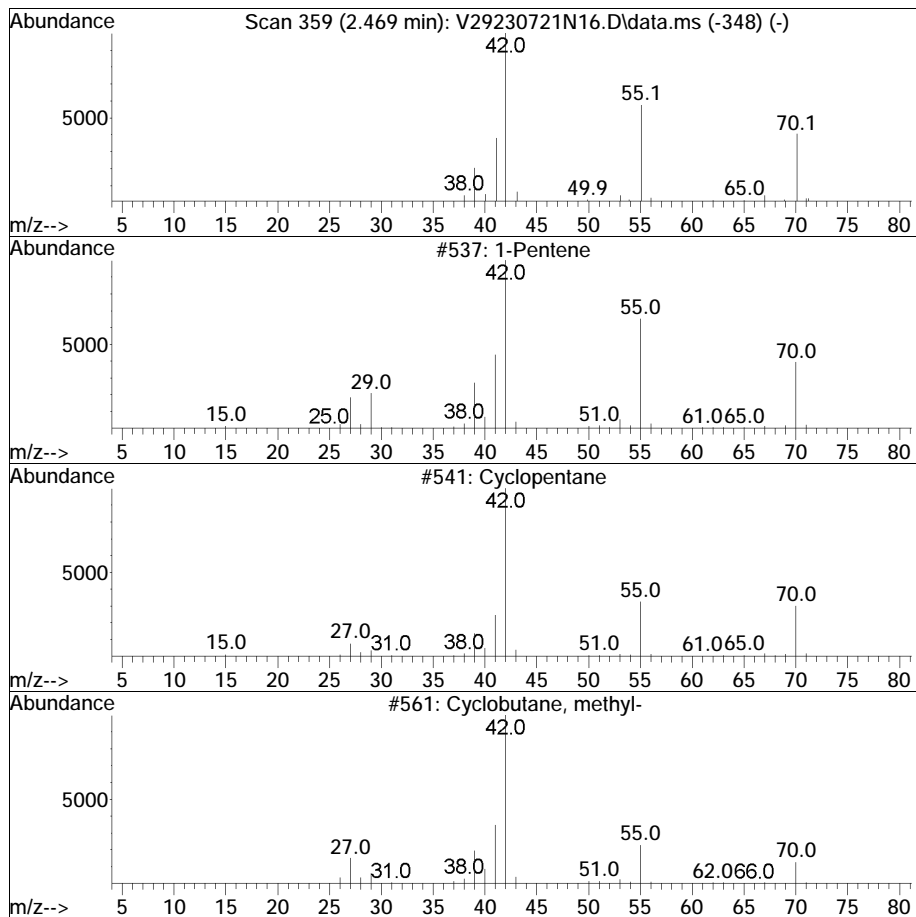
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: rteint.p

 Peak Number 2 1-Pentene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.469	4.16 ug/L	103419	Fluorobenzene	5.898

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1-Pentene	70	C5H10	000109-67-1	86
2		Cyclopentane	70	C5H10	000287-92-3	83
3		Cyclobutane, methyl-	70	C5H10	000598-61-8	56
4		1-Pentanol	88	C5H12O	000071-41-0	56
5		Cyclopropane, 1,2-dimethyl-, cis-	70	C5H10	000930-18-7	9



Tentatively Identified Compound (LSC) summary

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N16.D
 Acq On : 21 Jul 2023 11:48 pm
 Operator : VOA129:AJK
 Sample : 12339907-05,31,5.08,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 16 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: rteint.p

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard---			
					#	RT	Resp	Conc
1-Pentene	2.469	4.2	ug/L	103419	1	5.898	496953	20.0

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N17.D
 Acq On : 22 Jul 2023 12:09 am
 Operator : VOA129:AJK
 Sample : 12339907-06,31,5.94,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 23 15:38:43 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	5.899	96	223186	20.000	ug/L	0.00	
Standard Area 1 = 283796			Recovery =	78.64%			
59) Chlorobenzene-d5	8.735	117	173225	20.000	ug/L	0.00	
Standard Area 1 = 220595			Recovery =	78.53%			
79) 1,4-Dichlorobenzene-d4	10.187	152	93095	20.000	ug/L	0.00	
Standard Area 1 = 120931			Recovery =	76.98%			
System Monitoring Compounds							
36) Dibromofluoromethane	4.965	113	59614	20.302	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	101.51%			
43) 1,2-Dichloroethane-d4	5.563	65	69303	21.256	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	106.28%			
60) Toluene-d8	7.529	98	222308	19.744	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.72%			
83) 4-Bromofluorobenzene	9.527	95	88270	21.095	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	105.47%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	0.939	85	122		N.D.		
3) Chloromethane	1.206	50	139		N.D.		
4) Vinyl chloride	0.000		0		N.D.		
5) Bromomethane	0.000		0		N.D.		
6) Chloroethane	0.000		0		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	2.139	76	73		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	2.674	84	1116	0.430	ug/L	83	
17) Acetone	2.742	43	2986	1.320	ug/L	98	
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	0.000		0		N.D.	d	
20) Methyl tert-butyl ether	0.000		0		N.D.		
23) 1,1-Dichloroethane	0.000		0		N.D.		
28) cis-1,2-Dichloroethene	0.000		0		N.D.		
31) Cyclohexane	0.000		0		N.D.		
32) Chloroform	0.000		0		N.D.		
34) Carbon tetrachloride	0.000		0		N.D.		
37) 1,1,1-Trichloroethane	0.000		0		N.D.		

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N17.D
 Acq On : 22 Jul 2023 12:09 am
 Operator : VOA129:AJK
 Sample : 12339907-06,31,5.94,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 23 15:38:43 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2-Butanone	5.191	43	73		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.030	95	165		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.576	92	61		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	7.875	75	186		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	8.468	43	49		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	0.000		0		N.D.	d
76) p/m Xylene	8.892	106	264		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	9.522	105	345		N.D.	
85) n-Propylbenzene	9.674	91	129		N.D.	
87) 1,1,2,2-Tetrachloroethane	9.684	83	147		N.D.	
90) 1,3,5-Trimethylbenzene	9.679	105	569		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	
97) 1,2,4-Trimethylbenzene	9.962	105	474		N.D.	
98) sec-Butylbenzene	9.962	105	474		N.D.	
99) p-Isopropyltoluene	10.109	119	66		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
103) n-Butylbenzene	10.355	91	54		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
110) Naphthalene	11.451	128	309		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N17.D
Acq On : 22 Jul 2023 12:09 am
Operator : VOA129:AJK
Sample : 12339907-06,31,5.94,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 23 15:38:43 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

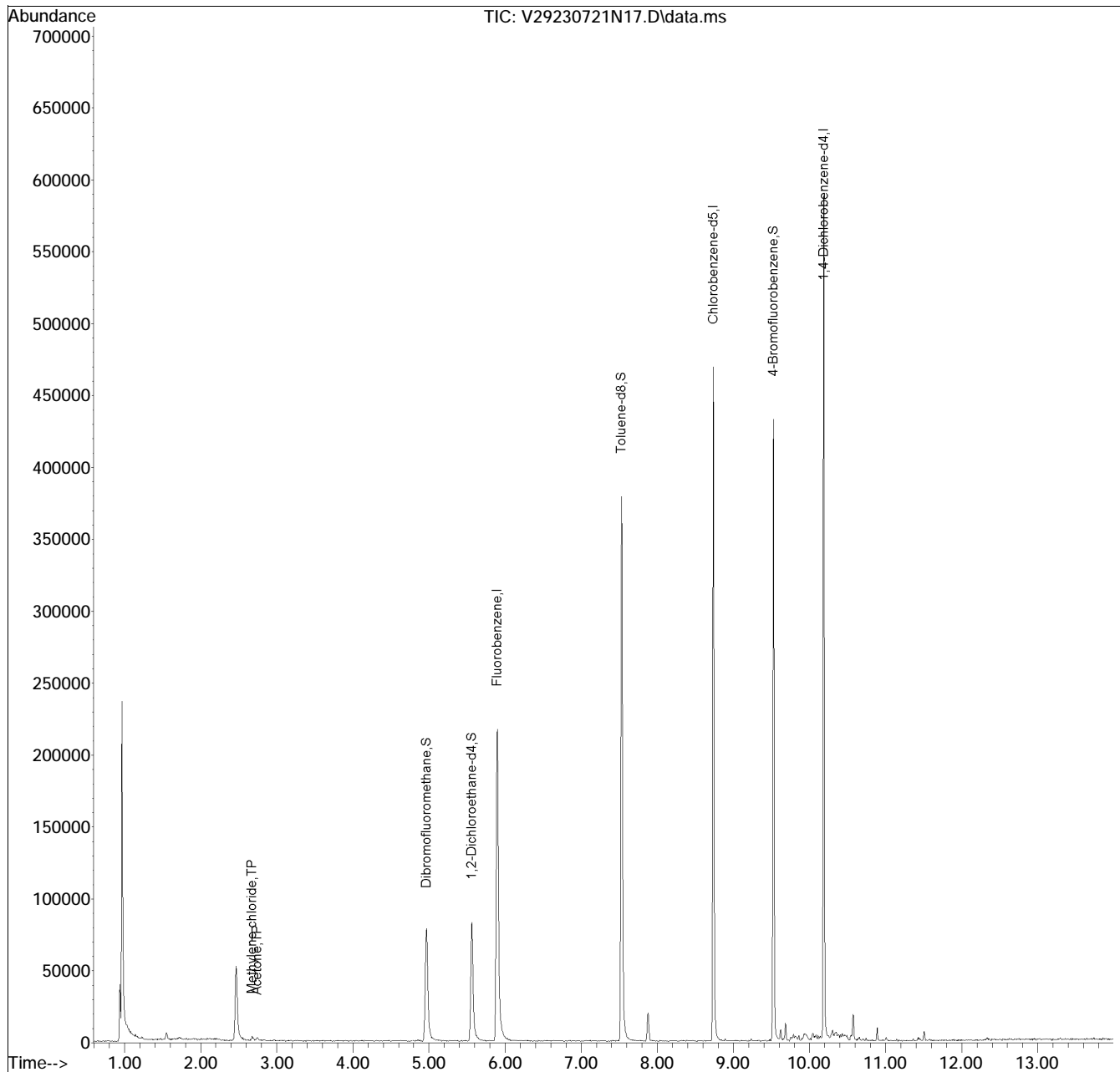
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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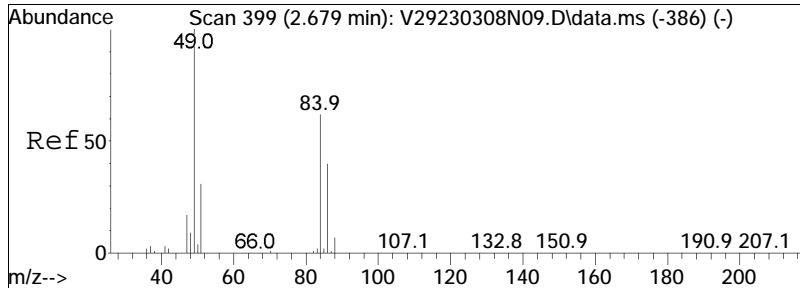
Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N17.D
Acq On : 22 Jul 2023 12:09 am
Operator : VOA129:AJK
Sample : 12339907-06,31,5.94,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 23 15:38:43 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

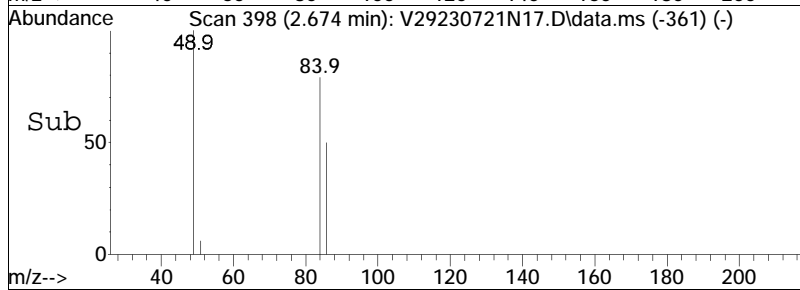
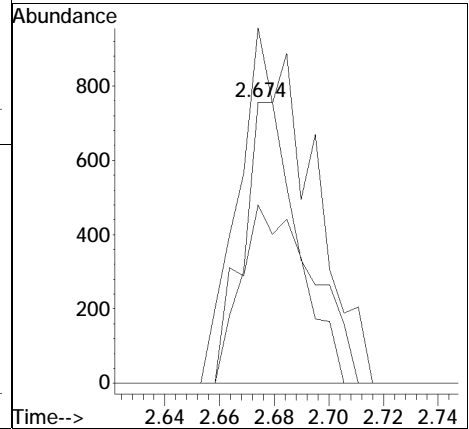
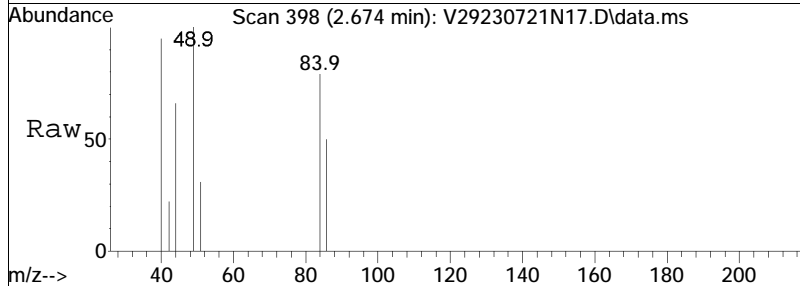
Sub List : 8260-CurveSoil - Megamix plus Diox21N01.D•

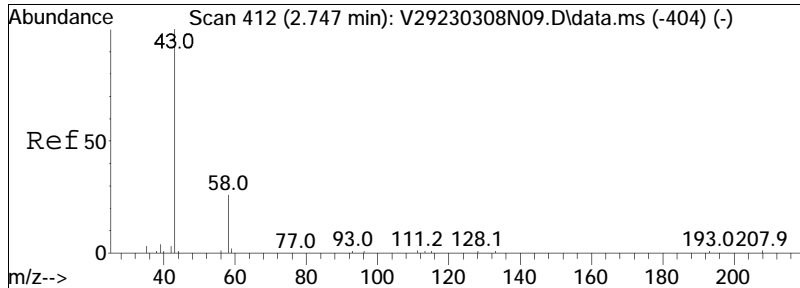




#15
 Methylene chloride
 Concen: 0.43 ug/L
 RT: 2.674 min Scan# 398
 Delta R.T. -0.005 min
 Lab File: V29230721N17.D
 Acq: 22 Jul 2023 12:09 am

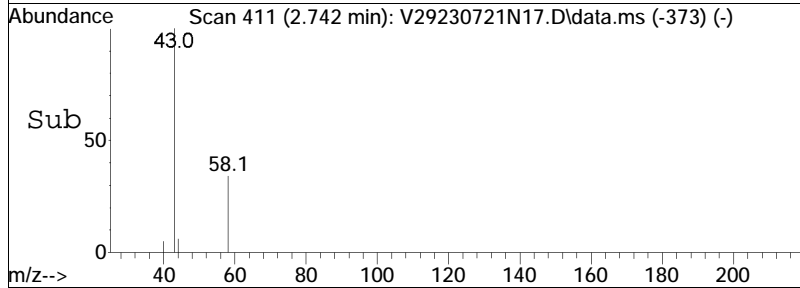
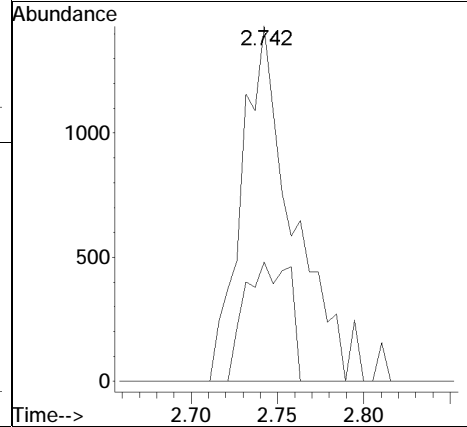
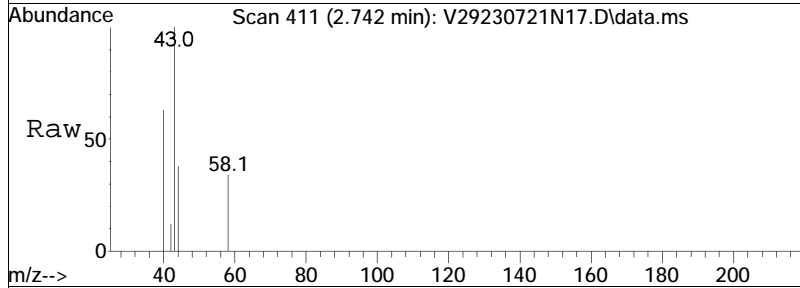
Tgt Ion:	84	Resp:	1116
Ion Ratio	Lower	Upper	
84	100		
86	73.3	40.4	83.8
49	158.5	120.0	249.2





#17
 Acetone
 Concen: 1.32 ug/L
 RT: 2.742 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: V29230721N17.D
 Acq: 22 Jul 2023 12:09 am

Tgt Ion	Resp	Lower	Upper
43	100		
58	29.2	24.2	36.4



Manual Integration Report

Data Path : K:\VOA129\2023\230721N\ QMethod : V129_230308N_8260.m
Data File : V29230721N17.D Operator : VOA129:AJK
Date Inj'd : 7/22/2023 12:09 am Instrument : VOA 129
Sample : 12339907-06,31,5.94,5,,b Quant Date : 7/23/2023 3:29 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N17.D
 Acq On : 22 Jul 2023 12:09 am
 Operator : VOA129:AJK
 Sample : 12339907-06,31,5.94,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.1 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Title : VOLATILES BY GC/MS

Signal : TIC: V29230721N17.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	0.939	63	67	69	rBV	39829	41406	7.01%	1.179%
2	0.965	69	72	105	rVB	235386	306406	51.87%	8.728%
3	2.464	348	358	374	rBV	51817	111467	18.87%	3.175%
4	4.971	826	836	859	rBV	78327	195713	33.13%	5.575%
5	5.563	938	949	973	rBV2	82549	184941	31.31%	5.268%
6	5.899	1003	1013	1041	rBV	216684	474408	80.31%	13.513%
7	7.529	1316	1324	1348	rBV	378590	590756	100.00%	16.828%
8	7.880	1384	1391	1397	rBV3	19640	31329	5.30%	0.892%
9	8.735	1548	1554	1571	rBV	468617	528106	89.39%	15.043%
10	9.527	1698	1705	1717	rBV	432409	462805	78.34%	13.183%
11	10.187	1824	1831	1846	rVB	585374	556118	94.14%	15.841%
12	10.570	1895	1904	1912	rVB	18002	27200	4.60%	0.775%

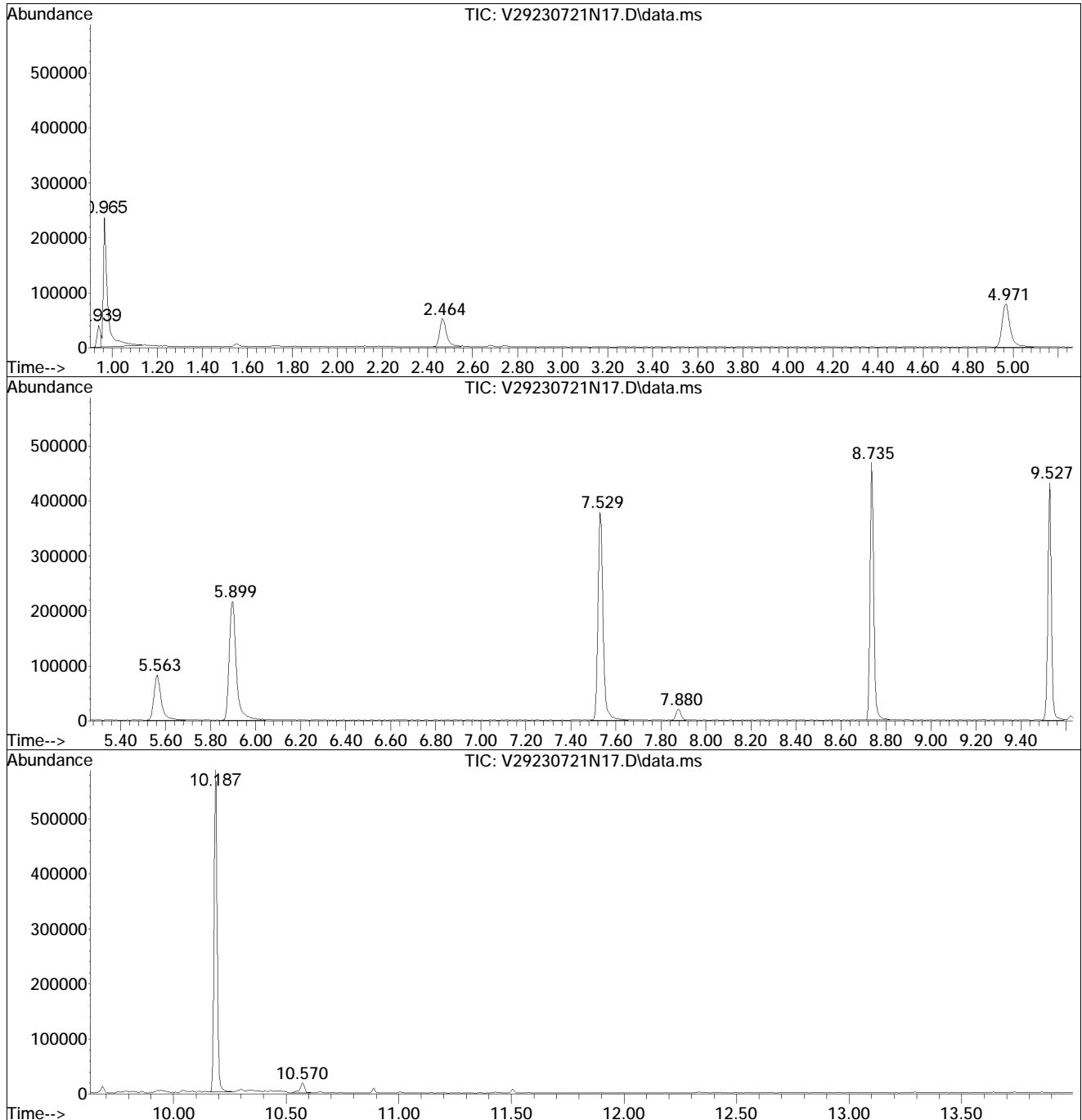
Sum of corrected areas: 3510655

LSC Report - Integrated Chromatogram

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N17.D
Acq On : 22 Jul 2023 12:09 am
Operator : VOA129:AJK
Sample : 12339907-06,31,5.94,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 17 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p



Library Search Compound Report

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N17.D
 Acq On : 22 Jul 2023 12:09 am
 Operator : VOA129:AJK
 Sample : 12339907-06,31,5.94,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 17 Sample Multiplier: 1

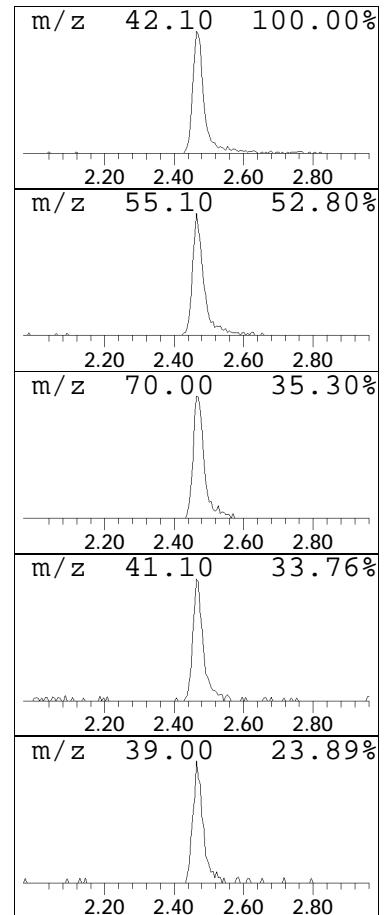
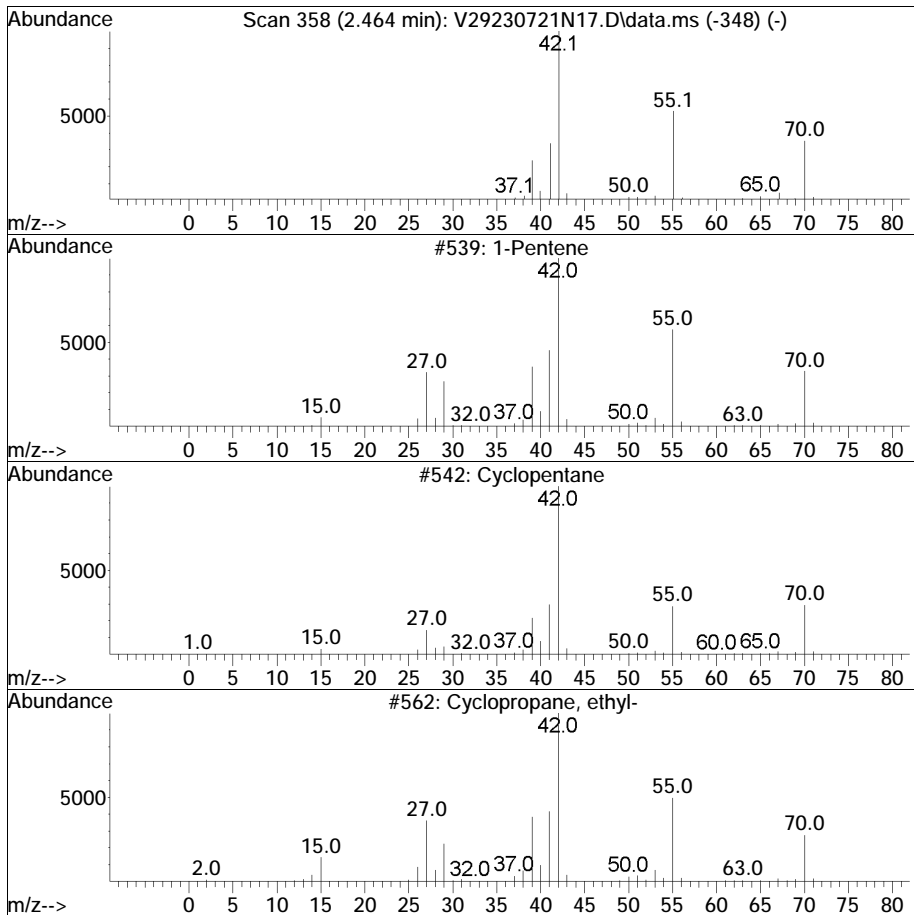
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: rteint.p

 Peak Number 2 1-Pentene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.464	4.70 ug/L	111467	Fluorobenzene	5.899

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1-Pentene	70	C5H10	000109-67-1	86
2			Cyclopentane	70	C5H10	000287-92-3	80
3			Cyclopropane, ethyl-	70	C5H10	001191-96-4	72
4			Cyclobutane, methyl-	70	C5H10	000598-61-8	64
5			2-Pentene	70	C5H10	000109-68-2	32



Tentatively Identified Compound (LSC) summary

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N17.D
 Acq On : 22 Jul 2023 12:09 am
 Operator : VOA129:AJK
 Sample : 12339907-06,31,5.94,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 17 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: rteint.p

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard---			
					#	RT	Resp	Conc
1-Pentene	2.464	4.7	ug/L	111467	1	5.899	474408	20.0

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N18.D
 Acq On : 22 Jul 2023 12:30 am
 Operator : VOA129:AJK
 Sample : 12339907-07,31,3.98,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 23 15:41:36 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	5.898	96	232318	20.000	ug/L	0.00	
Standard Area 1 = 283796			Recovery =	81.86%			
59) Chlorobenzene-d5	8.735	117	184729	20.000	ug/L	0.00	
Standard Area 1 = 220595			Recovery =	83.74%			
79) 1,4-Dichlorobenzene-d4	10.187	152	98600	20.000	ug/L	0.00	
Standard Area 1 = 120931			Recovery =	81.53%			
System Monitoring Compounds							
36) Dibromofluoromethane	4.970	113	62287	20.378	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	101.89%			
43) 1,2-Dichloroethane-d4	5.563	65	71220	20.985	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	104.93%			
60) Toluene-d8	7.529	98	238384	19.853	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.27%			
83) 4-Bromofluorobenzene	9.527	95	90830	20.494	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	102.47%			
Target Compounds							
2) Dichlorodifluoromethane	0.000		0		N.D.		Qvalue
3) Chloromethane	1.222	50	117		N.D.		
4) Vinyl chloride	0.000		0		N.D.		
5) Bromomethane	0.000		0		N.D.		
6) Chloroethane	0.000		0		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	2.134	76	82		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	2.684	84	1306	0.483	ug/L	80	
17) Acetone	2.747	43	4029	2.638	ug/L #	87	
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	2.831	43	126		N.D.		
20) Methyl tert-butyl ether	0.000		0		N.D.		
23) 1,1-Dichloroethane	0.000		0		N.D.		
28) cis-1,2-Dichloroethene	0.000		0		N.D.		
31) Cyclohexane	0.000		0		N.D.		
32) Chloroform	0.000		0		N.D.		
34) Carbon tetrachloride	0.000		0		N.D.		
37) 1,1,1-Trichloroethane	0.000		0		N.D.		

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N18.D
 Acq On : 22 Jul 2023 12:30 am
 Operator : VOA129:AJK
 Sample : 12339907-07,31,3.98,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 23 15:41:36 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2-Butanone	5.164	43	52		N.D.	
41) Benzene	5.406	78	64		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.035	95	71		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.576	92	521	0.077	ug/L	79
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	7.875	75	280		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	d
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	8.787	91	286		N.D.	
76) p/m Xylene	8.887	106	652	0.132	ug/L	90
77) o Xylene	9.170	106	135		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	9.521	105	304		N.D.	
85) n-Propylbenzene	9.621	91	222		N.D.	
87) 1,1,2,2-Tetrachloroethane	9.689	83	106		N.D.	
90) 1,3,5-Trimethylbenzene	9.736	105	282		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	
97) 1,2,4-Trimethylbenzene	9.962	105	565		N.D.	
98) sec-Butylbenzene	9.962	105	565		N.D.	
99) p-Isopropyltoluene	10.109	119	60		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
103) n-Butylbenzene	10.182	91	345		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
110) Naphthalene	11.451	128	408		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N18.D
Acq On : 22 Jul 2023 12:30 am
Operator : VOA129:AJK
Sample : 12339907-07,31,3.98,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 23 15:41:36 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

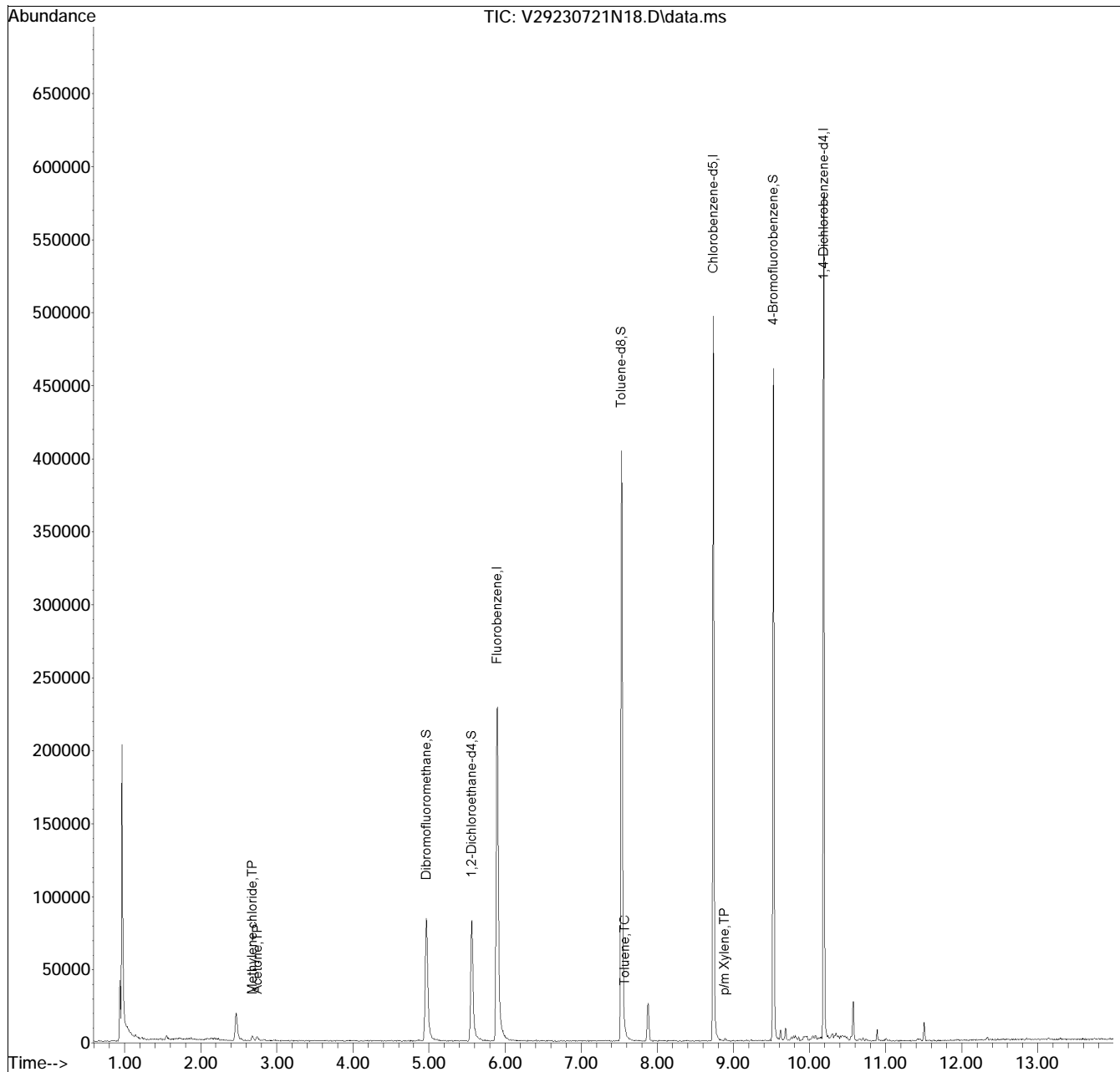
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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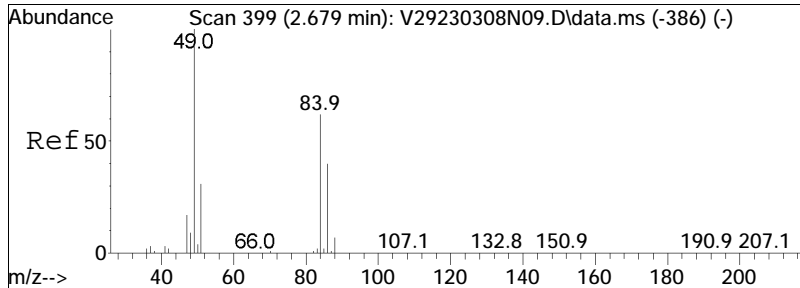
Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N18.D
Acq On : 22 Jul 2023 12:30 am
Operator : VOA129:AJK
Sample : 12339907-07,31,3.98,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 23 15:41:36 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

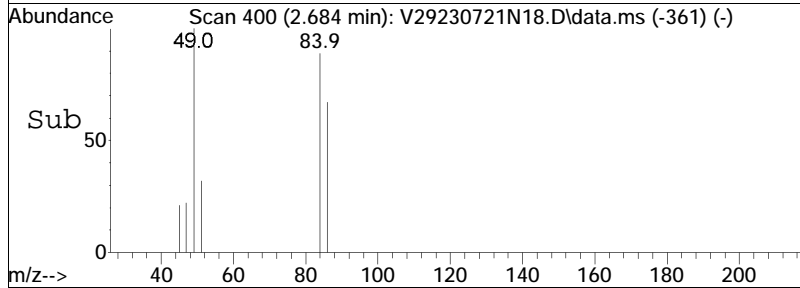
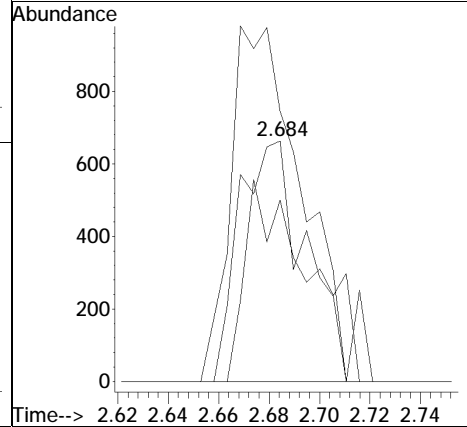
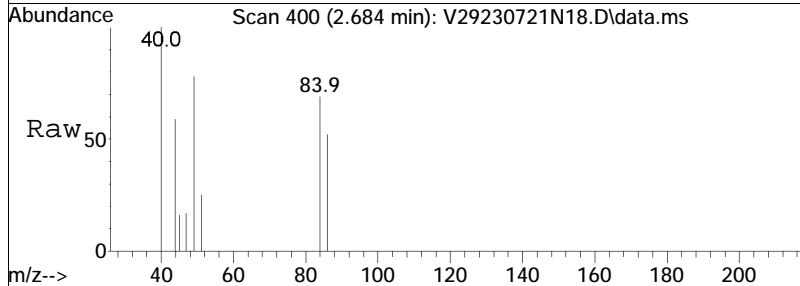
Sub List : 8260-CurveSoil - Megamix plus Diox21N01.D•

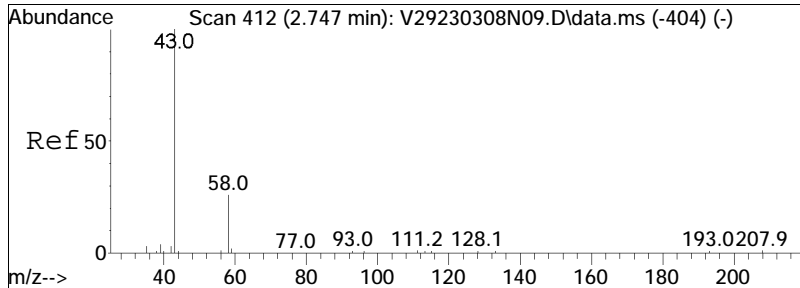




#15
 Methylene chloride
 Concen: 0.48 ug/L
 RT: 2.684 min Scan# 400
 Delta R.T. 0.005 min
 Lab File: V29230721N18.D
 Acq: 22 Jul 2023 12:30 am

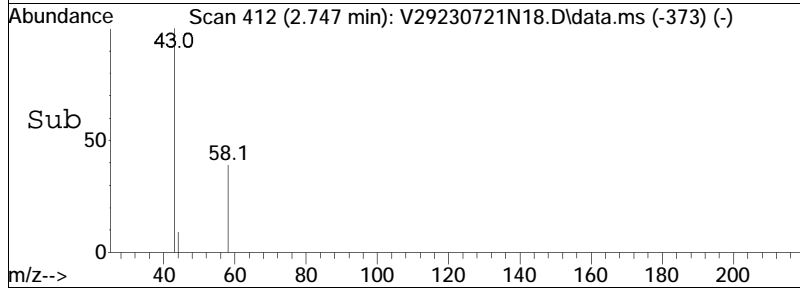
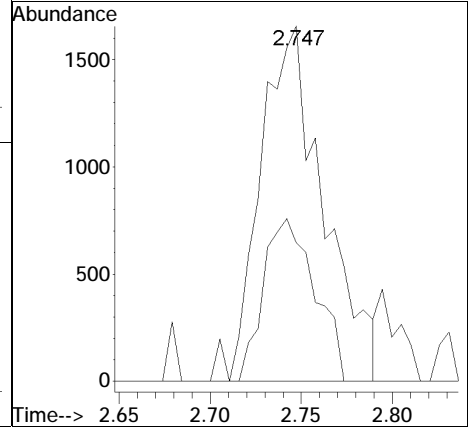
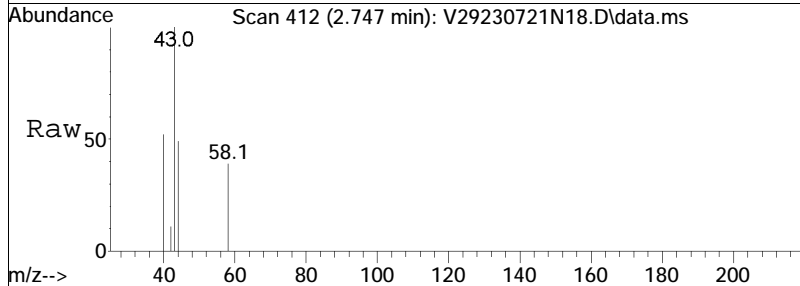
Tgt Ion	Resp	Lower	Upper
84	1306		
86	68.2	40.4	83.8
49	150.5	120.0	249.2

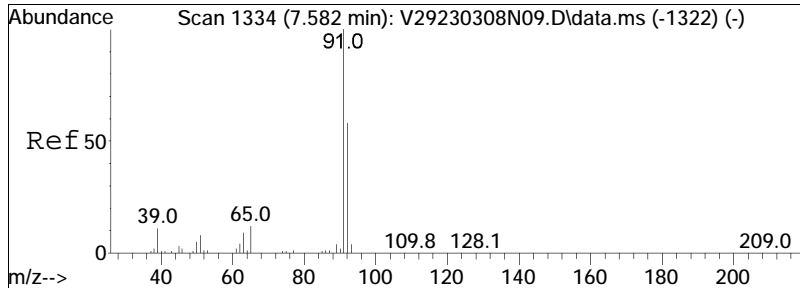




#17
 Acetone
 Concen: 2.64 ug/L
 RT: 2.747 min Scan# 412
 Delta R.T. 0.005 min
 Lab File: V29230721N18.D
 Acq: 22 Jul 2023 12:30 am

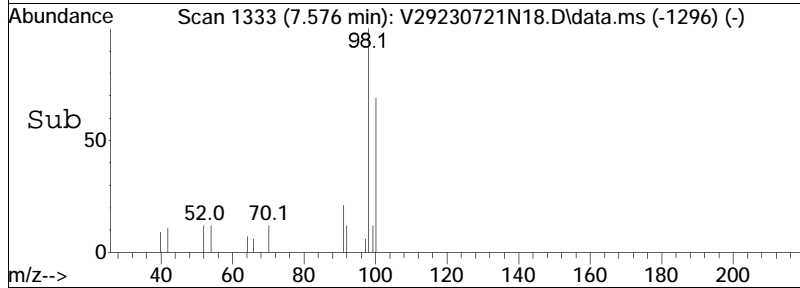
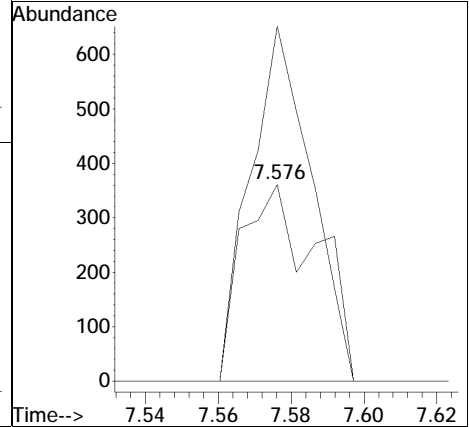
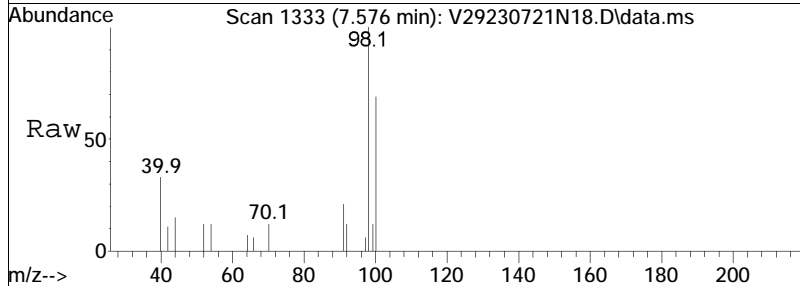
Tgt Ion	Resp	Lower	Upper
43	4029		
58	37.3	24.2	36.4#

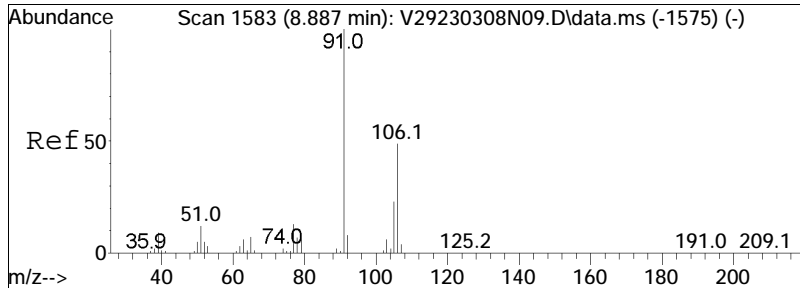




#61
 Toluene
 Concen: 0.08 ug/L
 RT: 7.576 min Scan# 1333
 Delta R.T. -0.006 min
 Lab File: V29230721N18.D
 Acq: 22 Jul 2023 12:30 am

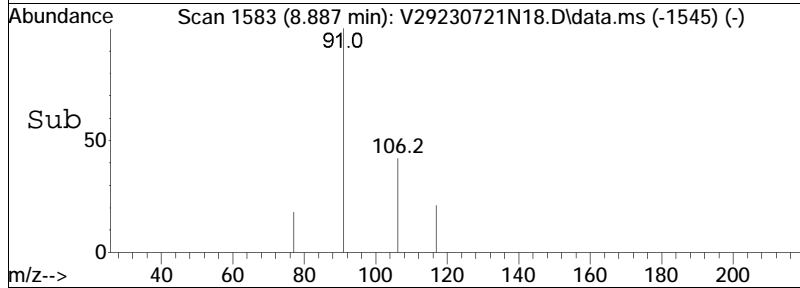
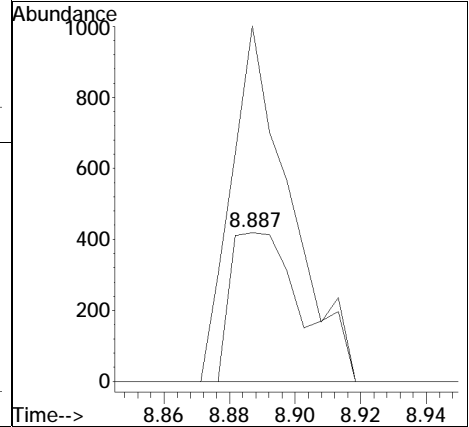
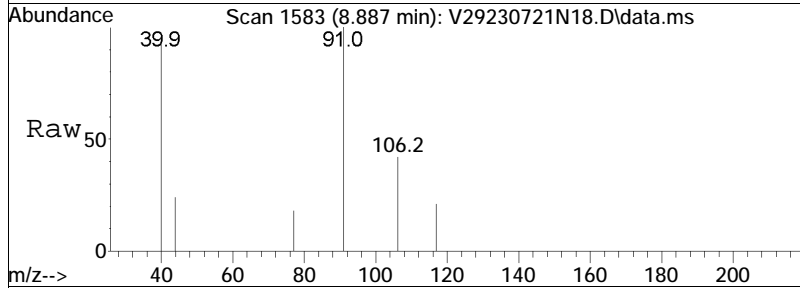
Tgt Ion	Resp	Lower	Upper
92	521		
91	145.3	139.8	209.6





#76
 p/m Xylene
 Concen: 0.13 ug/L
 RT: 8.887 min Scan# 1583
 Delta R.T. -0.000 min
 Lab File: V29230721N18.D
 Acq: 22 Jul 2023 12:30 am

Tgt Ion	Resp	Lower	Upper
106	100		
91	192.2	166.4	249.6



Manual Integration Report

Data Path : K:\VOA129\2023\230721N\ QMethod : V129_230308N_8260.m
Data File : V29230721N18.D Operator : VOA129:AJK
Date Inj'd : 7/22/2023 12:30 am Instrument : VOA 129
Sample : 12339907-07,31,3.98,5,,b Quant Date : 7/23/2023 3:29 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N18.D
 Acq On : 22 Jul 2023 12:30 am
 Operator : VOA129:AJK
 Sample : 12339907-07,31,3.98,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.1
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Title : VOLATILES BY GC/MS

Signal : TIC: V29230721N18.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	0.938	63	67	70	rBV2	41919	48232	7.67%	1.341%
2	0.965	70	72	103	rVB	202181	257713	40.96%	7.166%
3	2.464	349	358	368	rBV	18995	40012	6.36%	1.113%
4	4.965	824	835	856	rBV	83877	203736	32.38%	5.665%
5	5.563	938	949	969	rBV2	83019	188431	29.95%	5.240%
6	5.898	996	1013	1044	rBV	228972	498005	79.16%	13.848%
7	7.529	1317	1324	1350	rBV	404169	629146	100.00%	17.494%
8	7.880	1383	1391	1403	rVB	26098	44574	7.08%	1.239%
9	8.735	1548	1554	1570	rBV	496236	563378	89.55%	15.666%
10	9.527	1698	1705	1719	rBV	460820	503946	80.10%	14.013%
11	10.187	1824	1831	1840	rBV	576597	583861	92.80%	16.235%
12	10.575	1896	1905	1912	rVB	26913	35252	5.60%	0.980%

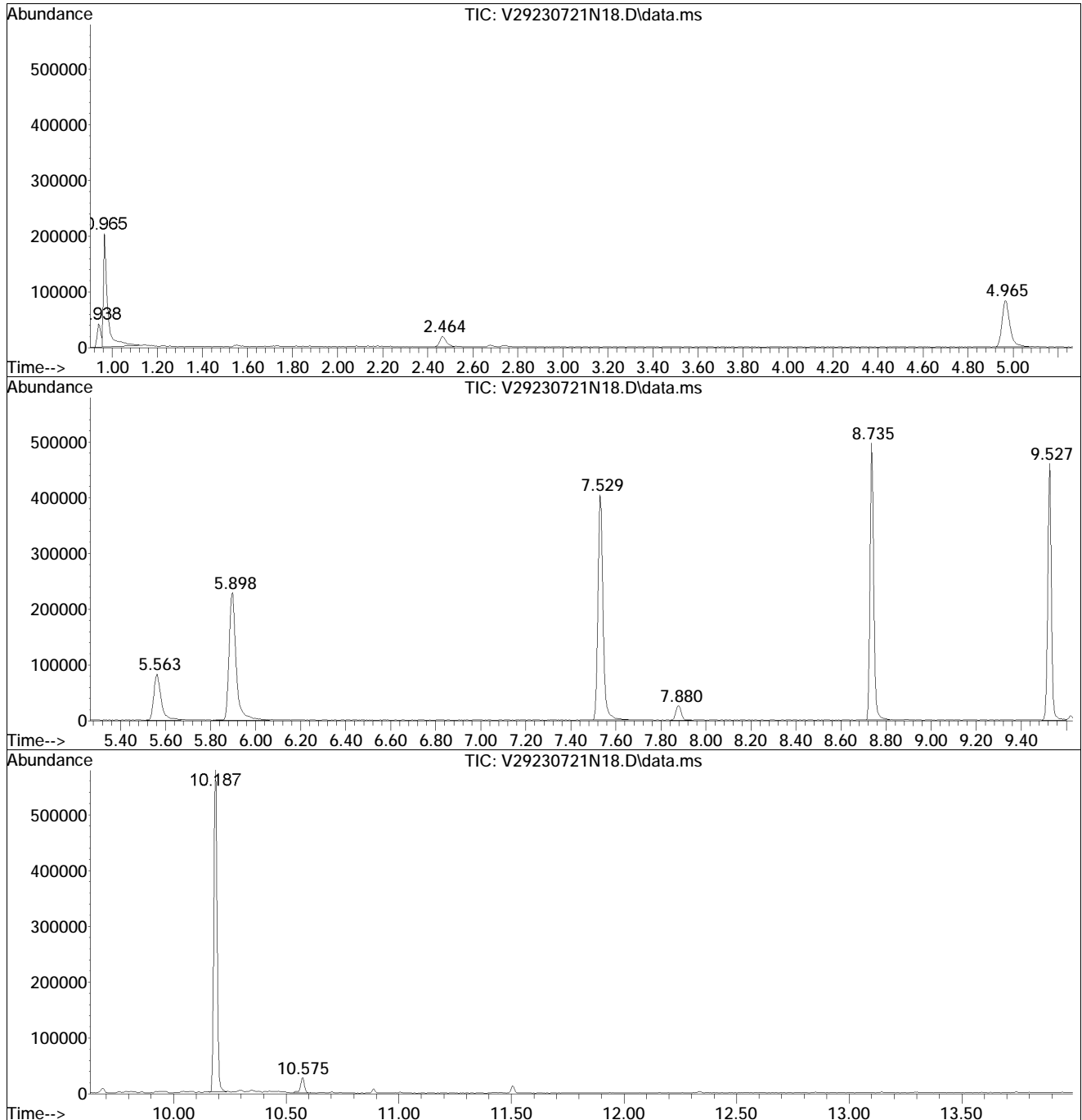
Sum of corrected areas: 3596286

LSC Report - Integrated Chromatogram

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N18.D
Acq On : 22 Jul 2023 12:30 am
Operator : VOA129:AJK
Sample : 12339907-07,31,3.98,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 18 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p



Library Search Compound Report

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N18.D
Acq On : 22 Jul 2023 12:30 am
Operator : VOA129:AJK
Sample : 12339907-07,31,3.98,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 18 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

No Library Search Compounds Detected

Tentatively Identified Compound (LSC) summary

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N18.D
Acq On : 22 Jul 2023 12:30 am
Operator : VOA129:AJK
Sample : 12339907-07,31,3.98,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 18 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N19.D
 Acq On : 22 Jul 2023 12:50 am
 Operator : VOA129:AJK
 Sample : 12339907-09,31,6.70,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 23 15:42:04 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	5.893	96	221481	20.000	ug/L	0.00	
Standard Area 1 = 283796			Recovery =	78.04%			
59) Chlorobenzene-d5	8.735	117	178041	20.000	ug/L	0.00	
Standard Area 1 = 220595			Recovery =	80.71%			
79) 1,4-Dichlorobenzene-d4	10.187	152	103596	20.000	ug/L	0.00	
Standard Area 1 = 120931			Recovery =	85.67%			
System Monitoring Compounds							
36) Dibromofluoromethane	4.965	113	60101	20.625	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	103.13%			
43) 1,2-Dichloroethane-d4	5.558	65	69437	21.461	ug/L	-0.01	
Spiked Amount 20.000	Range 70 - 130		Recovery =	107.30%			
60) Toluene-d8	7.529	98	223203	19.287	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	96.43%			
83) 4-Bromofluorobenzene	9.527	95	87935	18.884	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	94.42%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	1.211	50	51		N.D.		
4) Vinyl chloride	0.000		0		N.D.		
5) Bromomethane	1.510	94	58		N.D.		
6) Chloroethane	0.000		0		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	0.000		0		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	2.679	84	1355	0.526	ug/L		88
17) Acetone	2.747	43	3629	2.320	ug/L		97
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	2.952	43	116		N.D.		
20) Methyl tert-butyl ether	0.000		0		N.D.		
23) 1,1-Dichloroethane	0.000		0		N.D.		
28) cis-1,2-Dichloroethene	0.000		0		N.D.		
31) Cyclohexane	0.000		0		N.D.		
32) Chloroform	0.000		0		N.D.		
34) Carbon tetrachloride	0.000		0		N.D.		
37) 1,1,1-Trichloroethane	0.000		0		N.D.		

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N19.D
 Acq On : 22 Jul 2023 12:50 am
 Operator : VOA129:AJK
 Sample : 12339907-09,31,6.70,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 23 15:42:04 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2-Butanone	5.159	43	64		N.D.	
41) Benzene	5.411	78	48		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.014	95	49		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.576	92	381		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	7.880	75	70		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	d
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	8.782	91	342		N.D.	
76) p/m Xylene	8.897	106	684	0.144	ug/L	91
77) o Xylene	9.165	106	130		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	9.212	173	57		N.D.	
82) Isopropylbenzene	9.516	105	267		N.D.	
85) n-Propylbenzene	9.626	91	106		N.D.	
87) 1,1,2,2-Tetrachloroethane	9.679	83	62		N.D.	
90) 1,3,5-Trimethylbenzene	9.736	105	227		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	
97) 1,2,4-Trimethylbenzene	9.962	105	469		N.D.	
98) sec-Butylbenzene	9.962	105	469		N.D.	
99) p-Isopropyltoluene	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
103) n-Butylbenzene	10.187	91	244		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
110) Naphthalene	11.451	128	287		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N19.D
Acq On : 22 Jul 2023 12:50 am
Operator : VOA129:AJK
Sample : 12339907-09,31,6.70,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 23 15:42:04 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

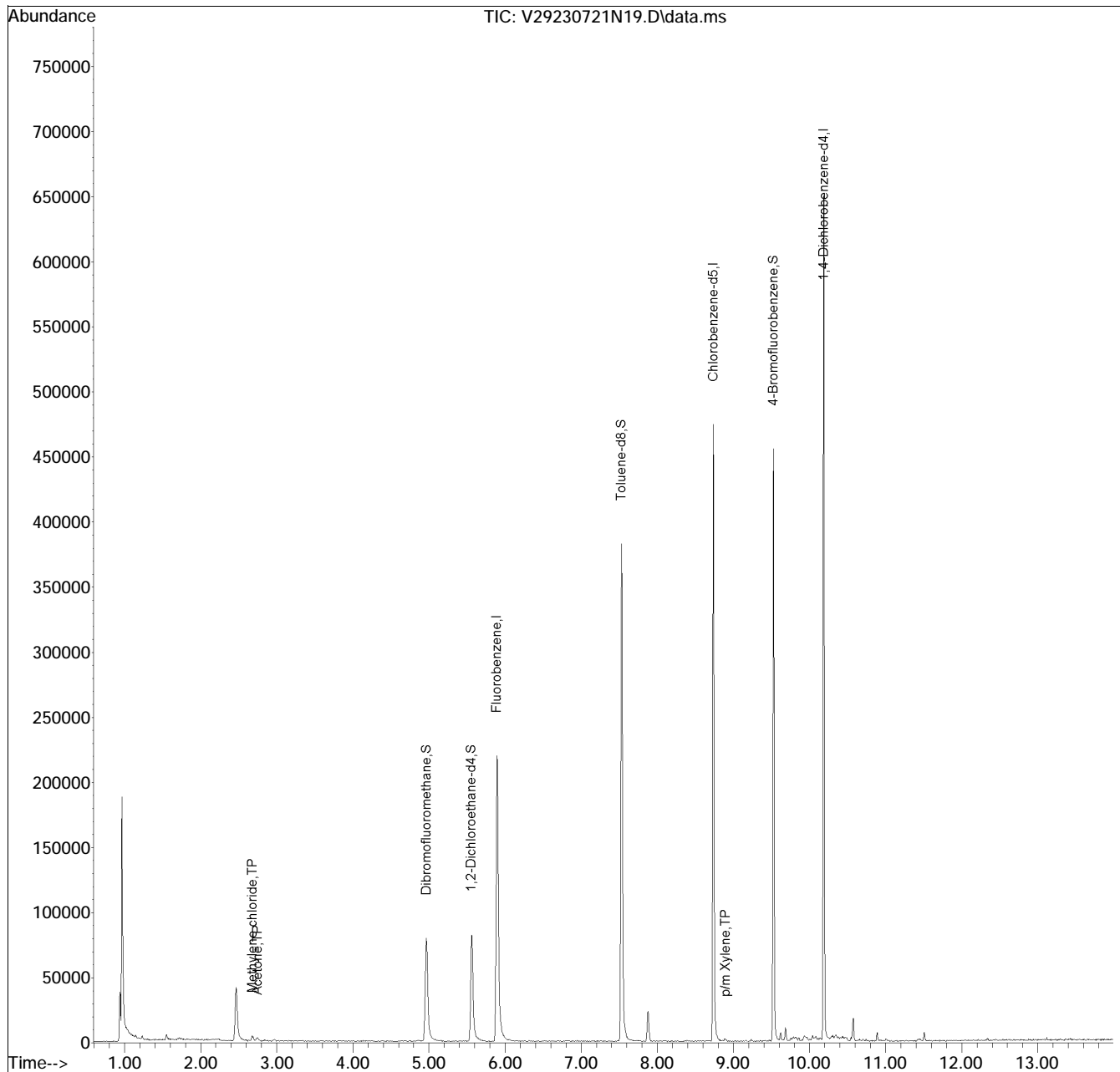
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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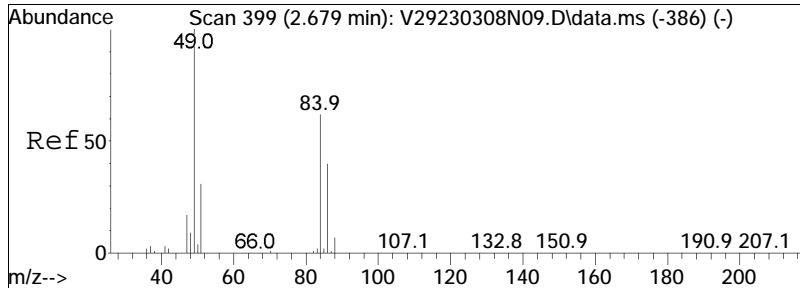
Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N19.D
Acq On : 22 Jul 2023 12:50 am
Operator : VOA129:AJK
Sample : 12339907-09,31,6.70,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 23 15:42:04 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

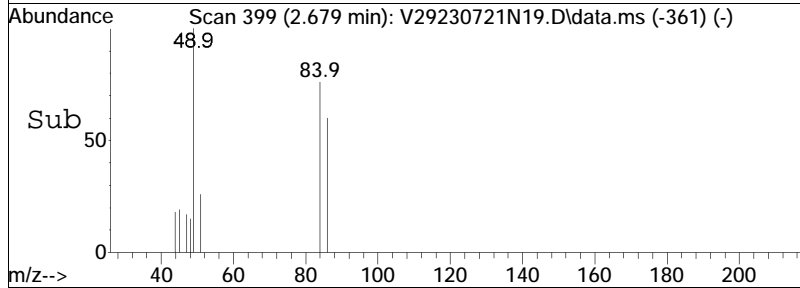
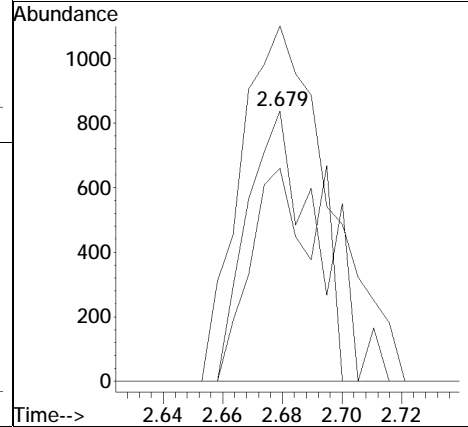
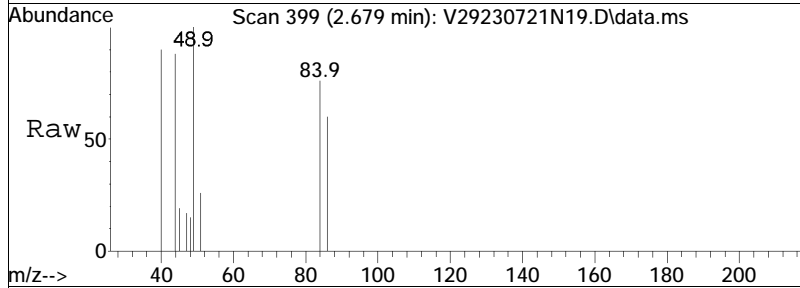
Sub List : 8260-CurveSoil - Megamix plus Diox21N01.D•

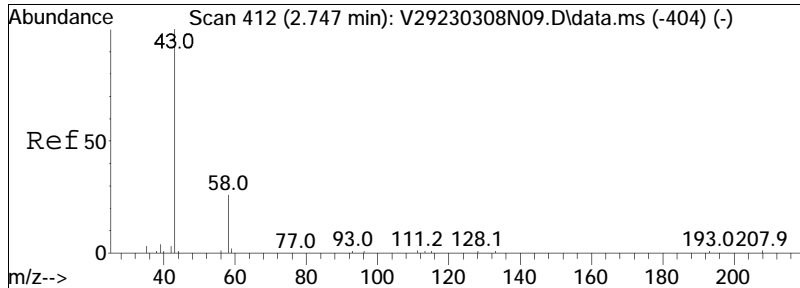




#15
 Methylene chloride
 Concen: 0.53 ug/L
 RT: 2.679 min Scan# 399
 Delta R.T. 0.000 min
 Lab File: V29230721N19.D
 Acq: 22 Jul 2023 12:50 am

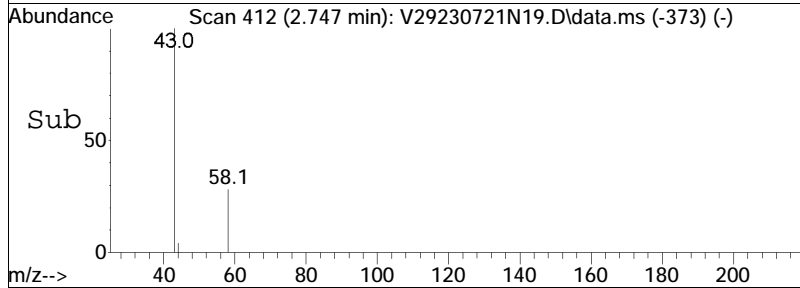
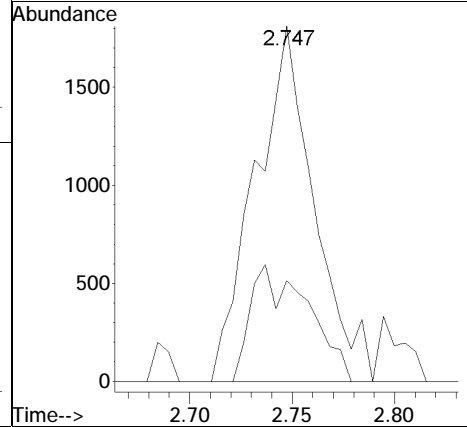
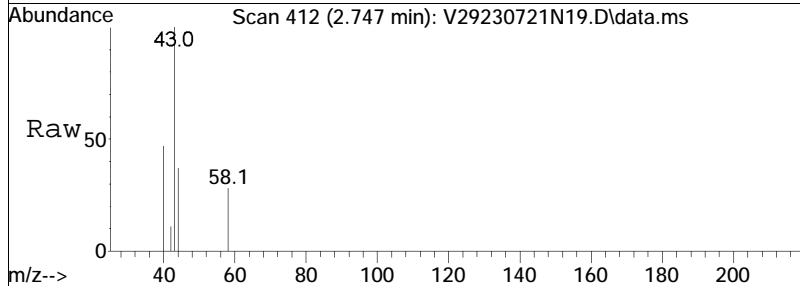
Tgt Ion:	84	Resp:	1355
Ion Ratio	Lower	Upper	
84	100		
86	76.2	40.4	83.8
49	171.1	120.0	249.2

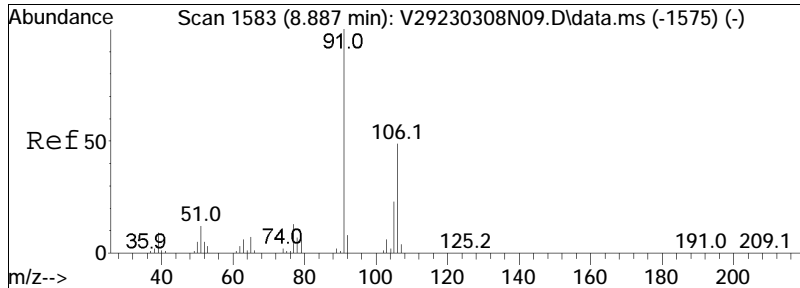




#17
 Acetone
 Concen: 2.32 ug/L
 RT: 2.747 min Scan# 412
 Delta R.T. 0.005 min
 Lab File: V29230721N19.D
 Acq: 22 Jul 2023 12:50 am

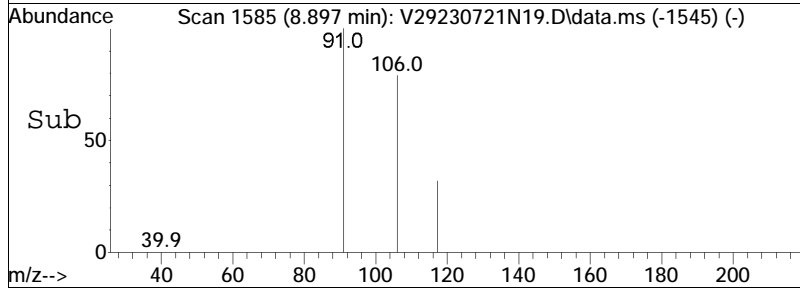
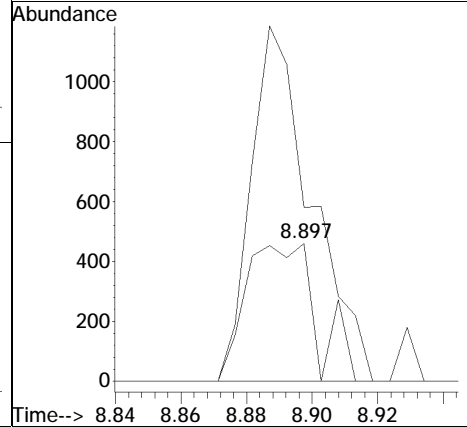
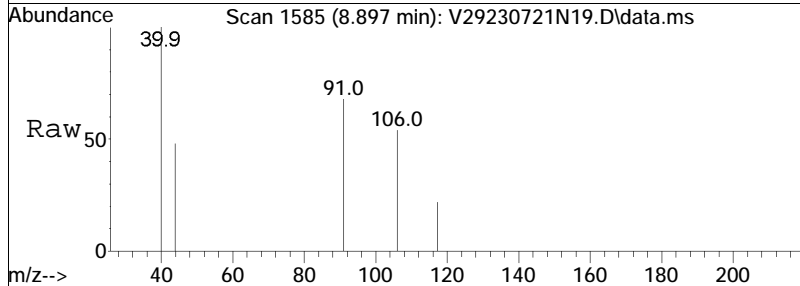
Tgt Ion	Resp	Lower	Upper
43	100		
58	31.9	24.2	36.4





#76
 p/m Xylene
 Concen: 0.14 ug/L
 RT: 8.897 min Scan# 1585
 Delta R.T. 0.010 min
 Lab File: V29230721N19.D
 Acq: 22 Jul 2023 12:50 am

Tgt Ion	Ratio	Lower	Upper	Resp
106	100			684
91	222.5	166.4	249.6	



Manual Integration Report

Data Path : K:\VOA129\2023\230721N\ QMethod : V129_230308N_8260.m
Data File : V29230721N19.D Operator : VOA129:AJK
Date Inj'd : 7/22/2023 12:50 am Instrument : VOA 129
Sample : 12339907-09,31,6.70,5,,b Quant Date : 7/23/2023 3:29 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N19.D
 Acq On : 22 Jul 2023 12:50 am
 Operator : VOA129:AJK
 Sample : 12339907-09,31,6.70,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.1
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Title : VOLATILES BY GC/MS

Signal : TIC: V29230721N19.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	0.938	62	67	70	rBV2	38048	46837	7.62%	1.326%
2	0.965	70	72	103	rVB	186482	242431	39.46%	6.861%
3	2.464	348	358	380	rBV2	41252	94208	15.33%	2.666%
4	4.965	822	835	855	rBV2	79501	196886	32.05%	5.572%
5	5.558	939	948	977	rBV	81847	187094	30.45%	5.295%
6	5.893	1003	1012	1041	rBV	219486	470650	76.61%	13.321%
7	7.529	1317	1324	1355	rBV	381935	599455	97.58%	16.966%
8	7.875	1384	1390	1398	rVB	23076	37219	6.06%	1.053%
9	8.735	1549	1554	1573	rBV	474160	549527	89.45%	15.553%
10	9.527	1699	1705	1719	rBV	455079	470701	76.62%	13.322%
11	10.187	1826	1831	1846	rBV	648150	614351	100.00%	17.388%
12	10.575	1896	1905	1911	rVB	17609	23913	3.89%	0.677%

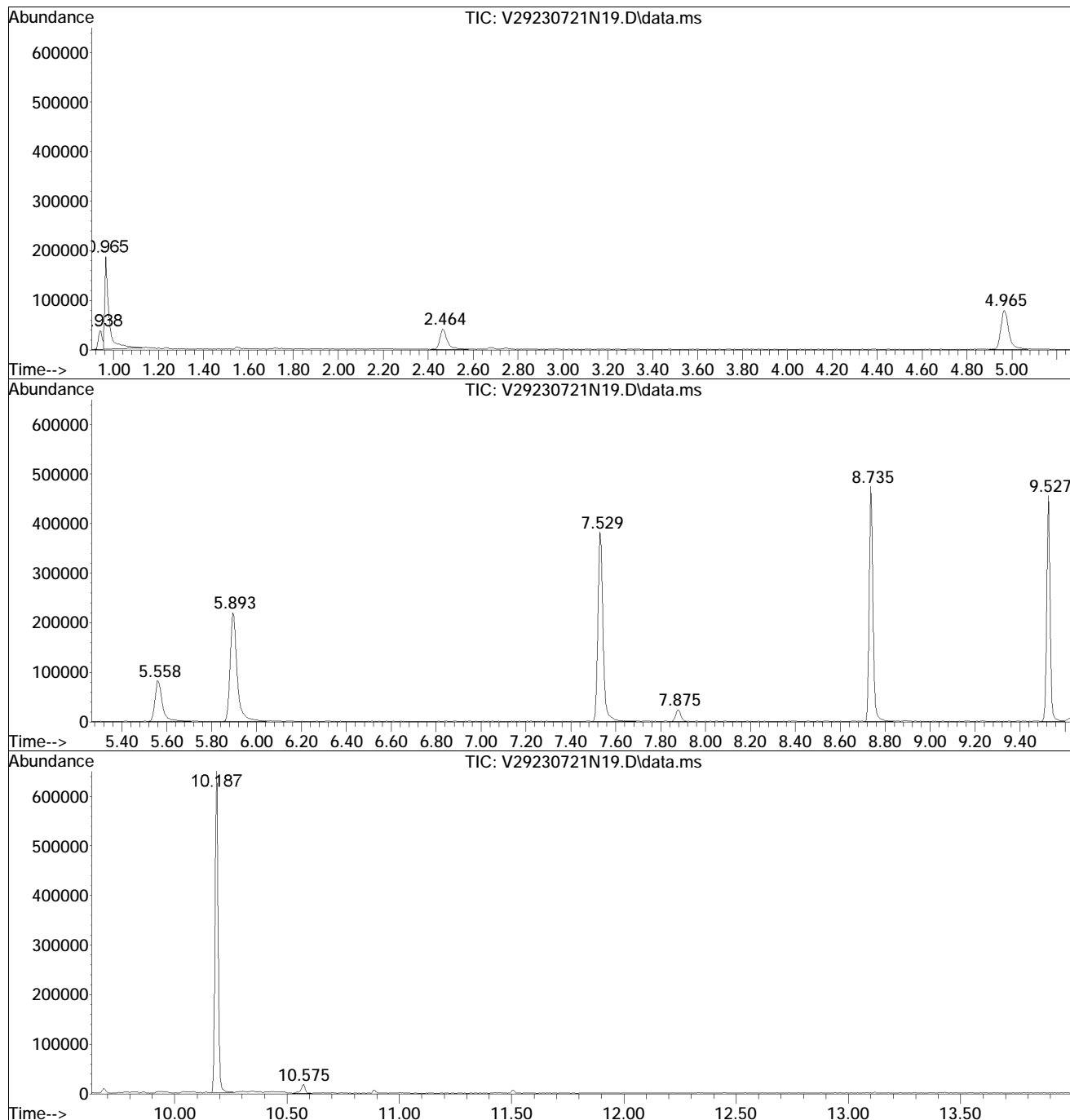
Sum of corrected areas: 3533272

LSC Report - Integrated Chromatogram

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N19.D
Acq On : 22 Jul 2023 12:50 am
Operator : VOA129:AJK
Sample : 12339907-09,31,6.70,5,,b
Misc : WG1806697,ICAL19799
ALS Vial : 19 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p



Library Search Compound Report

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N19.D
 Acq On : 22 Jul 2023 12:50 am
 Operator : VOA129:AJK
 Sample : 12339907-09,31,6.70,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 19 Sample Multiplier: 1

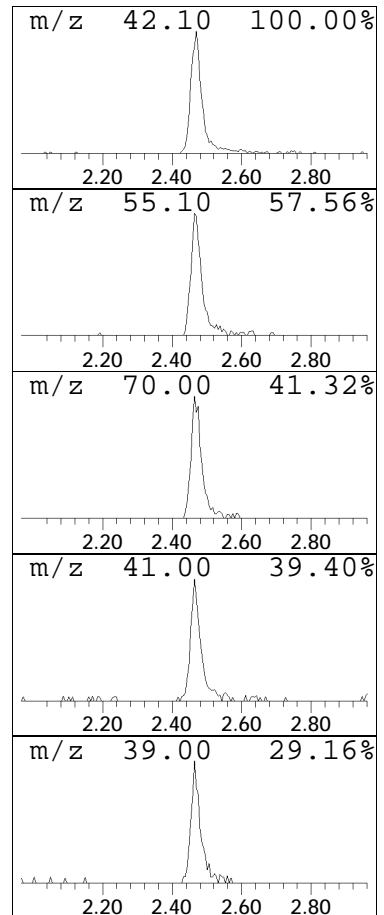
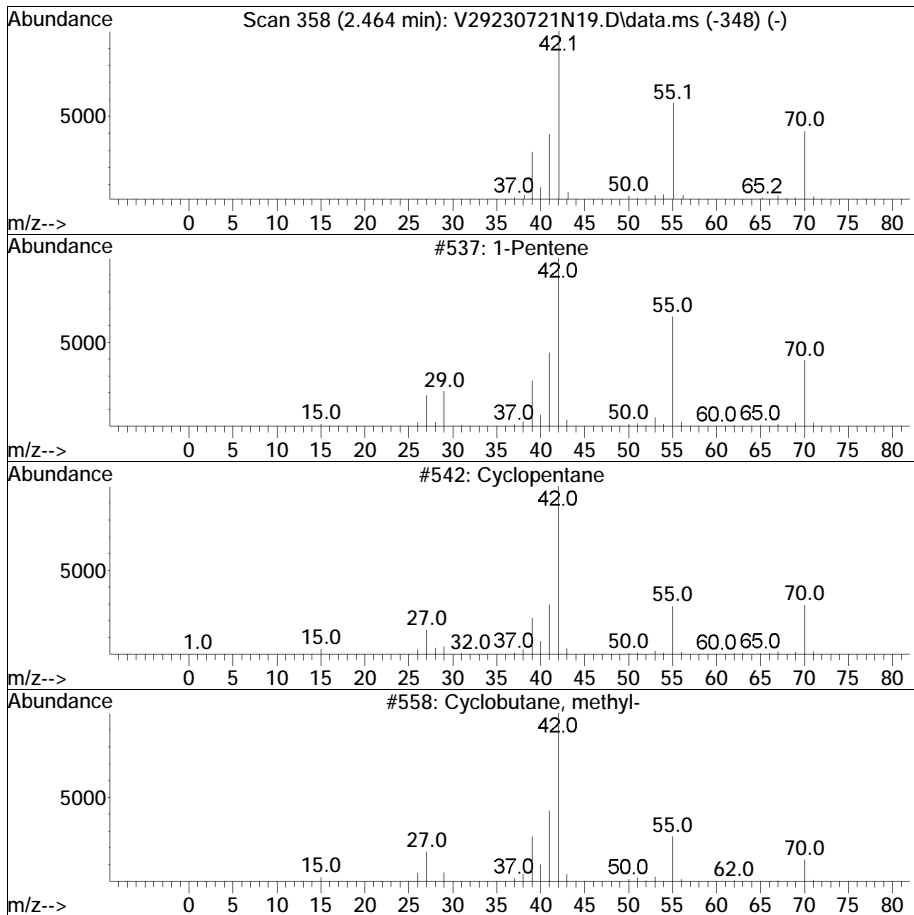
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: rteint.p

 Peak Number 2 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.464	4.00 ug/L	94208	Fluorobenzene	5.893

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1-Pentene	70	C5H10	000109-67-1	87
2		Cyclopentane	70	C5H10	000287-92-3	86
3		Cyclobutane, methyl-	70	C5H10	000598-61-8	78
4		1-Pentanol	88	C5H12O	000071-41-0	56
5		2-Pentene	70	C5H10	000109-68-2	47



Tentatively Identified Compound (LSC) summary

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N19.D
 Acq On : 22 Jul 2023 12:50 am
 Operator : VOA129:AJK
 Sample : 12339907-09,31,6.70,5,,b
 Misc : WG1806697,ICAL19799
 ALS Vial : 19 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: rteint.p

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard---			
					#	RT	Resp	Conc
Unknown	2.464	4.0	ug/L	94208	1	5.893	470650	20.0

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Volatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : VOA129
Calibration dates : 03/08/23 18:23 03/08/23 23:35

Lab Number : L2339907
Project Number : 2230119
Ical Ref : ICAL19799

Calibration Files

0.5 =V29230308N20.D 1 =V29230308N21.D 2 =V29230308N06.D 4 =V29230308N07.D 20 =V29230308N08.D
 40 =V29230308N09.D 100 =V29230308N10.D 200 =V29230308N11.D 300 =V29230308N12.D

Compound	0.5	1	2	4	20	40	100	200	300	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----										
2) TP Dichlorodifluo			0.170	0.230	0.228	0.213	0.229	0.224	0.227	0.217	9.95
3) TP Chloromethane	0.248	0.263	0.342	0.325	0.305	0.331	0.325	0.331	0.309	11.23	
4) TC Vinyl chloride	0.164	0.225	0.273	0.282	0.261	0.281	0.273	0.280	0.255	16.18	
5) TP Bromomethane	0.146	0.098	0.125	0.130	0.124	0.139	0.144	0.153	0.132	13.06	
6) TP Chloroethane	0.132	0.135	0.147	0.154	0.145	0.154	0.146	0.135	0.144	6.05	
7) TP Trichlorofluor	0.174	0.256	0.314	0.342	0.309	0.332	0.325	0.327	0.297	18.85	
8) TP Ethyl ether	0.101	0.085	0.100	0.106	0.095	0.102	0.103	0.103	0.099	6.81	
10) TC 1,1-Dichloroet	0.111	0.176	0.182	0.198	0.180	0.198	0.192	0.195	0.179	16.09	
11) TP Carbon disulfide	0.488	0.566	0.664	0.692	0.648	0.685	0.670	0.674	0.636	11.30	
12) TP Freon-113	0.129	0.159	0.210	0.226	0.204	0.217	0.215	0.217	0.197	17.50	
14) TP Acrolein			0.046	0.043	0.033	0.039	0.042	0.041	0.041	11.08	
15) TP Methylene chlo	0.217	0.207	0.248	0.240	0.227	0.244	0.238	0.241	0.233	6.16	
17) TP Acetone		0.158	0.115	0.067	0.055	0.061	0.063	0.061	*L	0.9974	
18) TP trans-1,2-Dich	0.176	0.195	0.215	0.236	0.219	0.239	0.235	0.235	0.219	10.44	
19) TP Methyl acetate	0.146	0.138	0.185	0.174	0.158	0.173	0.175	0.172	0.165	9.85	
20) TP Methyl tert butyl ether	0.481	0.411	0.555	0.593	0.551	0.600	0.599	0.595	0.548	12.53	
21) TP tert-Butyl alc	0.042	0.031	0.044	0.034	0.030	0.035	0.034	0.035	0.036	13.58	
22) TP Diisopropyl ether	0.623	0.731	0.917	0.950	0.893	0.971	0.955	0.947	0.873	14.56	
23) TP 1,1-Dichloroet	0.312	0.369	0.465	0.457	0.424	0.456	0.446	0.445	0.422	12.75	
24) TP Halothane	0.132	0.171	0.188	0.188	0.177	0.186	0.182	0.183	0.176	10.60	
25) TP Acrylonitrile		0.081	0.085	0.081	0.079	0.085	0.085	0.086	0.083	3.27	
26) TP Ethyl tert-but	0.619	0.651	0.818	0.876	0.829	0.897	0.888	0.877	0.807	13.62	
27) TP Vinyl acetate	0.405	0.473	0.575	0.593	0.554	0.637	0.677	0.615	0.566	15.69	
28) TP cis-1,2-Dichlo	0.194	0.217	0.262	0.257	0.244	0.259	0.256	0.264	0.244	10.40	
29) TP 2,2-Dichloropr	0.260	0.325	0.352	0.370	0.341	0.365	0.368	0.368	0.344	10.92	
30) TP Bromochloromet	0.096	0.114	0.126	0.131	0.123	0.128	0.125	0.122	0.120	9.28	
31) TP Cyclohexane	0.297	0.386	0.462	0.528	0.493	0.518	0.506	0.507	0.462	17.48	
32) TC Chloroform	0.268	0.344	0.416	0.425	0.399	0.427	0.419	0.420	0.390	14.46	
33) TP Ethyl acetate	0.227	0.194	0.293	0.284	0.259	0.284	0.282	0.277	0.262	13.22	
34) TP Carbon tetrach	0.221	0.266	0.325	0.344	0.314	0.338	0.332	0.334	0.309	13.96	
35) TP Tetrahydrofuran			0.101	0.086	0.086	0.096	0.094	0.096	0.093	6.46	
36) S Dibromofluoromethane	0.275	0.273	0.263	0.264	0.263	0.259	0.260	0.260	0.252	0.263	2.68
37) TP 1,1,1-Trichloroethane	0.284	0.229	0.276	0.350	0.370	0.345	0.366	0.359	0.364	0.327	15.53
39) TP 2-Butanone			0.167	0.160	0.133	0.153	0.130	0.141	0.147	10.24	
40) TP 1,1-Dichloropropene	0.184	0.215	0.255	0.302	0.323	0.307	0.327	0.320	0.323	0.284	18.70



Initial Calibration Summary

Form 6

Volatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : VOA129
Calibration dates : 03/08/23 18:23 03/08/23 23:35

Lab Number : L2339907
Project Number : 2230119
Ical Ref : ICAL19799

Calibration Files

0.5 =V29230308N20.D 1 =V29230308N21.D 2 =V29230308N06.D 4 =V29230308N07.D 20 =V29230308N08.D
 40 =V29230308N09.D 100 =V29230308N10.D 200 =V29230308N11.D 300 =V29230308N12.D

Compound	0.5	1	2	4	20	40	100	200	300	Avg	%RSD
41) TP Benzene	0.683	0.588	0.708	0.928	0.948	0.883	0.942	0.921	0.915	0.835	16.35
42) TP Tertiary-Amyl Methyl Ether		0.530	0.546	0.669	0.693	0.660	0.714	0.712	0.705	0.654	11.34
43) S 1,2-Dichloroethane-d4	0.312	0.318	0.292	0.304	0.283	0.284	0.272	0.286	0.279	0.292	5.37
44) TP 1,2-Dichloroet		0.283	0.284	0.339	0.337	0.315	0.339	0.336	0.333	0.321	7.59
47) TP Methyl cyclohe		0.240	0.324	0.387	0.451	0.422	0.447	0.438	0.445	0.394	19.14
48) TP Trichloroethene	0.213	0.167	0.205	0.261	0.267	0.253	0.262	0.254	0.258	0.238	14.52
50) TP Dibromomethane		0.124	0.135	0.160	0.152	0.139	0.151	0.150	0.150	0.145	7.96
51) TC 1,2-Dichloropr		0.219	0.242	0.290	0.288	0.270	0.287	0.282	0.281	0.270	9.61
53) TP 2-Chloroethyl		0.149	0.151	0.199	0.185	0.171	0.186	0.186	0.187	0.177	10.29
54) TP Bromodichloromethane	0.241	0.224	0.292	0.345	0.342	0.324	0.348	0.344	0.344	0.312	15.49
57) TP 1,4-Dioxane		0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003#	7.20
58) TP cis-1,3-Dichloropropene	0.302	0.297	0.335	0.421	0.419	0.395	0.423	0.419	0.417	0.381	14.10
59) I Chlorobenzene-d5	-----ISTD-----										
60) S Toluene-d8	1.301	1.299	1.284	1.293	1.286	1.313	1.300	1.308	1.317	1.300	0.87
61) TC Toluene		0.560	0.662	0.797	0.787	0.742	0.795	0.770	0.782	0.737	11.44
62) TP 4-Methyl-2-pen		0.142	0.123	0.162	0.143	0.136	0.146	0.142	0.146	0.142	7.53
63) TP Tetrachloroethene	0.228	0.200	0.277	0.342	0.358	0.341	0.362	0.355	0.363	*L	0.9997
65) TP trans-1,3-Dich		0.354	0.380	0.502	0.488	0.475	0.515	0.501	0.506	0.465	13.38
67) TP Ethyl methacry		0.331	0.327	0.442	0.410	0.393	0.422	0.410	0.416	0.394	10.67
68) TP 1,1,2-Trichlor		0.166	0.196	0.262	0.231	0.218	0.236	0.230	0.234	0.222	13.11
69) TP Chlorodibromomethane	0.252	0.241	0.273	0.378	0.344	0.329	0.358	0.353	0.361	0.321	16.09
70) TP 1,3-Dichloropr		0.343	0.368	0.489	0.469	0.451	0.485	0.472	0.476	0.444	12.68
71) TP 1,2-Dibromoethane	0.252	0.234	0.233	0.289	0.280	0.275	0.291	0.287	0.290	0.270	8.82
72) TP 2-Hexanone		0.300	0.265	0.305	0.264	0.249	0.268	0.262	0.265	0.272	7.14
73) TP Chlorobenzene	0.735	0.661	0.753	0.966	0.887	0.851	0.896	0.866	0.872	0.832	11.50
74) TC Ethylbenzene		1.014	1.199	1.547	1.495	1.434	1.503	1.418	1.407	1.377	13.09
75) TP 1,1,1,2-Tetrachloroethane	0.243	0.220	0.254	0.352	0.334	0.322	0.343	0.334	0.341	0.305	16.70
76) TP p/m Xylene	0.477	0.397	0.489	0.613	0.588	0.557	0.579	0.553	0.545	0.533	12.60
77) TP o Xylene	0.447	0.391	0.474	0.609	0.574	0.539	0.566	0.536	0.536	0.519	13.30
78) TP Styrene	0.777	0.672	0.783	1.051	0.964	0.915	0.944	0.878	0.822	0.867	13.35
79) I 1,4-Dichlorobenzene-d4	-----ISTD-----										
80) TP Bromoform		0.291	0.322	0.478	0.414	0.412	0.444	0.448	0.457	0.408	16.41
82) TP Isopropylbenzene		1.718	2.175	2.891	2.687	2.643	2.741	2.670	2.643	2.521	15.21
83) S 4-Bromofluorobenzene	0.886	0.905	0.892	0.895	0.900	0.896	0.893	0.907	0.916	0.899	1.02
84) TP Bromobenzene		0.488	0.564	0.772	0.689	0.678	0.721	0.718	0.735	0.671	14.26
85) TP n-Propylbenzene		2.085	2.700	3.516	3.252	3.177	3.230	3.108	2.978	3.006	14.63



Initial Calibration Summary

Form 6

Volatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : VOA129
Calibration dates : 03/08/23 18:23 03/08/23 23:35

Lab Number : L2339907
Project Number : 2230119
Ical Ref : ICAL19799

Calibration Files

0.5 =V29230308N20.D 1 =V29230308N21.D 2 =V29230308N06.D 4 =V29230308N07.D 20 =V29230308N08.D
 40 =V29230308N09.D 100 =V29230308N10.D 200 =V29230308N11.D 300 =V29230308N12.D

Compound	0.5	1	2	4	20	40	100	200	300	Avg	%RSD
86) TP 1,4-Dichlorobu	0.843	0.861	1.169	0.976	0.959	0.998	0.990	0.995	0.974	10.23	
87) TP 1,1,2,2-Tetrachloroethane	0.529	0.483	0.535	0.798	0.638	0.613	0.662	0.677	0.681	0.624	15.53
88) TP 4-Ethyltoluene	1.843	2.302	2.987	2.751	2.671	2.744	2.670	2.627	2.574	13.62	
89) TP 2-Chlorotoluene	1.311	1.572	2.103	1.879	1.828	1.916	1.863	1.892	1.795	13.56	
90) TP 1,3,5-Trimethy	1.529	1.991	2.593	2.380	2.310	2.369	2.312	2.295	2.222	14.62	
91) TP 1,2,3-Trichlor	0.332	0.364	0.596	0.505	0.500	0.516	0.525	0.528	0.483	18.41	
92) TP trans-1,4-Dich	0.184	0.155	0.263	0.223	0.226	0.230	0.231	0.238	0.219	15.36	
93) TP 4-Chlorotoluene	1.370	1.649	2.253	2.026	1.997	2.053	2.009	2.011	1.921	14.44	
94) TP tert-Butylbenzene	1.301	1.617	2.144	2.016	1.964	2.051	2.014	2.011	1.890	15.00	
97) TP 1,2,4-Trimethy	1.598	1.909	2.591	2.329	2.284	2.362	2.311	2.283	2.208	14.00	
98) TP sec-Butylbenzene	1.856	2.390	3.172	3.024	2.919	2.990	2.895	2.814	2.757	15.58	
99) TP p-Isopropyltol	1.674	2.141	2.852	2.646	2.580	2.638	2.554	2.483	2.446	15.16	
100) TP 1,3-Dichlorobe	0.957	1.105	1.564	1.344	1.325	1.374	1.359	1.359	1.298	14.27	
101) TP 1,4-Dichlorobe	1.033	1.149	1.618	1.354	1.335	1.384	1.366	1.363	1.325	13.06	
102) TP p-Diethylbenzene	0.969	1.313	1.716	1.604	1.561	1.609	1.587	1.588	1.493	16.11	
103) TP n-Butylbenzene	1.386	1.879	2.499	2.340	2.261	2.327	2.234	2.189	2.139	16.44	
104) TP 1,2-Dichlorobe	0.952	1.066	1.514	1.273	1.260	1.296	1.289	1.291	1.243	13.54	
105) TP 1,2,4,5-Tetram	1.712	1.990	2.718	2.476	2.431	2.511	2.464	2.416	2.340	13.87	
106) TP 1,2-Dibromo-3-	0.105	0.108	0.156	0.127	0.120	0.130	0.131	0.132	0.126	12.64	
107) TP 1,3,5-Trichlor	0.736	0.843	1.225	1.050	1.037	1.068	1.046	1.059	1.008	14.92	
108) TP Hexachlorobuta	0.307	0.426	0.568	0.541	0.531	0.558	0.535	0.541	0.501	17.88	
109) TP 1,2,4-Trichlor	0.702	0.799	1.134	0.972	0.959	0.989	0.983	0.994	0.941	14.07	
110) TP Naphthalene	2.032	1.894	2.561	2.199	2.152	2.243	2.194	2.173	2.181	8.74	
111) TP 1,2,3-Trichlor	0.699	0.732	1.014	0.894	0.885	0.912	0.898	0.920	0.869	11.91	



Response Factor Report VOA 129

Method Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Method File : V129_230308N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Mar 09 17:16:29 2023
 Response Via : Initial Calibration

Calibration Files

0.5 =V29230308N20.D 1 =V29230308N21.D 2 =V29230308N06.D 4 =V29230308N07.D 20 =V29230308N08.D
 40 =V29230308N09.D 100 =V29230308N10.D 200 =V29230308N11.D 300 =V29230308N12.D

Compound	0.5	1	2	4	20	40	100	200	300	Avg	%RSD
-----ISTD-----											
1) I Fluorobenzene											
2) TP Dichlorodifluo...		0.170	0.230	0.228	0.213	0.229	0.224	0.227	0.217		9.95
3) TP Chloromethane	0.248	0.263	0.342	0.325	0.305	0.331	0.325	0.331	0.309		11.23
4) TC Vinyl chloride	0.164	0.225	0.273	0.282	0.261	0.281	0.273	0.280	0.255		16.18
5) TP Bromomethane	0.146	0.098	0.125	0.130	0.124	0.139	0.144	0.153	0.132		13.06
6) TP Chloroethane	0.132	0.135	0.147	0.154	0.145	0.154	0.146	0.135	0.144		6.05
7) TP Trichlorofluor...	0.174	0.256	0.314	0.342	0.309	0.332	0.325	0.327	0.297		18.85
8) TP Ethyl ether	0.101	0.085	0.100	0.106	0.095	0.102	0.103	0.103	0.099		6.81
10) TC 1,1-Dichloroet...	0.111	0.176	0.182	0.198	0.180	0.198	0.192	0.195	0.179		16.09
11) TP Carbon disulfide	0.488	0.566	0.664	0.692	0.648	0.685	0.670	0.674	0.636		11.30
12) TP Freon-113	0.129	0.159	0.210	0.226	0.204	0.217	0.215	0.217	0.197		17.50
14) TP Acrolein			0.046	0.043	0.033	0.039	0.042	0.041	0.041		11.08
15) TP Methylene chlo...	0.217	0.207	0.248	0.240	0.227	0.244	0.238	0.241	0.233		6.16
17) TP Acetone		0.158	0.115	0.067	0.055	0.061	0.063	0.061	*L		0.9974
18) TP trans-1,2-Dich...	0.176	0.195	0.215	0.236	0.219	0.239	0.235	0.235	0.219		10.44
19) TP Methyl acetate	0.146	0.138	0.185	0.174	0.158	0.173	0.175	0.172	0.165		9.85
20) TP Methyl tert-bu...	0.481	0.411	0.555	0.593	0.551	0.600	0.599	0.595	0.548		12.53
21) TP tert-Butyl alc...	0.042	0.031	0.044	0.034	0.030	0.035	0.034	0.035	0.036		13.58
22) TP Diisopropyl ether	0.623	0.731	0.917	0.950	0.893	0.971	0.955	0.947	0.873		14.56
23) TP 1,1-Dichloroet...	0.312	0.369	0.465	0.457	0.424	0.456	0.446	0.445	0.422		12.75
24) TP Halothane	0.132	0.171	0.188	0.188	0.177	0.186	0.182	0.183	0.176		10.60
25) TP Acrylonitrile		0.081	0.085	0.081	0.079	0.085	0.085	0.086	0.083		3.27
26) TP Ethyl tert-but...	0.619	0.651	0.818	0.876	0.829	0.897	0.888	0.877	0.807		13.62
27) TP Vinyl acetate	0.405	0.473	0.575	0.593	0.554	0.637	0.677	0.615	0.566		15.69
28) TP cis-1,2-Dichlo...	0.194	0.217	0.262	0.257	0.244	0.259	0.256	0.264	0.244		10.40
29) TP 2,2-Dichloropr...	0.260	0.325	0.352	0.370	0.341	0.365	0.368	0.368	0.344		10.92
30) TP Bromochloromet...	0.096	0.114	0.126	0.131	0.123	0.128	0.125	0.122	0.120		9.28
31) TP Cyclohexane	0.297	0.386	0.462	0.528	0.493	0.518	0.506	0.507	0.462		17.48
32) TC Chloroform	0.268	0.344	0.416	0.425	0.399	0.427	0.419	0.420	0.390		14.46
33) TP Ethyl acetate	0.227	0.194	0.293	0.284	0.259	0.284	0.282	0.277	0.262		13.22
34) TP Carbon tetrach...	0.221	0.266	0.325	0.344	0.314	0.338	0.332	0.334	0.309		13.96

Response Factor Report VOA 129

Method Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Method File : V129_230308N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Mar 09 17:16:29 2023
 Response Via : Initial Calibration

Calibration Files

0.5 =V29230308N20.D 1 =V29230308N21.D 2 =V29230308N06.D 4 =V29230308N07.D 20 =V29230308N08.D
 40 =V29230308N09.D 100 =V29230308N10.D 200 =V29230308N11.D 300 =V29230308N12.D

Compound	0.5	1	2	4	20	40	100	200	300	Avg	%RSD
35) TP Tetrahydrofuran			0.101	0.086	0.086	0.096	0.094	0.096	0.093	6.46	
36) S Dibromofluorom...	0.275	0.273	0.263	0.264	0.263	0.259	0.260	0.260	0.252	0.263	2.68
37) TP 1,1,1-Trichlor...	0.284	0.229	0.276	0.350	0.370	0.345	0.366	0.359	0.364	0.327	15.53
39) TP 2-Butanone			0.167	0.160	0.133	0.153	0.130	0.141	0.147	10.24	
40) TP 1,1-Dichloropr...	0.184	0.215	0.255	0.302	0.323	0.307	0.327	0.320	0.323	0.284	18.70
41) TP Benzene	0.683	0.588	0.708	0.928	0.948	0.883	0.942	0.921	0.915	0.835	16.35
42) TP tert-Amyl meth...		0.530	0.546	0.669	0.693	0.660	0.714	0.712	0.705	0.654	11.34
43) S 1,2-Dichloroet...	0.312	0.318	0.292	0.304	0.283	0.284	0.272	0.286	0.279	0.292	5.37
44) TP 1,2-Dichloroet...		0.283	0.284	0.339	0.337	0.315	0.339	0.336	0.333	0.321	7.59
47) TP Methyl cyclohe...		0.240	0.324	0.387	0.451	0.422	0.447	0.438	0.445	0.394	19.14
48) TP Trichloroethene	0.213	0.167	0.205	0.261	0.267	0.253	0.262	0.254	0.258	0.238	14.52
50) TP Dibromomethane		0.124	0.135	0.160	0.152	0.139	0.151	0.150	0.150	0.145	7.96
51) TC 1,2-Dichloropr...		0.219	0.242	0.290	0.288	0.270	0.287	0.282	0.281	0.270	9.61
53) TP 2-Chloroethyl ...		0.149	0.151	0.199	0.185	0.171	0.186	0.186	0.187	0.177	10.29
54) TP Bromodichlorom...	0.241	0.224	0.292	0.345	0.342	0.324	0.348	0.344	0.344	0.312	15.49
57) TP 1,4-Dioxane		0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003#	7.20
58) TP cis-1,3-Dichlo...	0.302	0.297	0.335	0.421	0.419	0.395	0.423	0.419	0.417	0.381	14.10
59) I Chlorobenzene-d5	-----ISTD-----										
60) S Toluene-d8	1.301	1.299	1.284	1.293	1.286	1.313	1.300	1.308	1.317	1.300	0.87
61) TC Toluene		0.560	0.662	0.797	0.787	0.742	0.795	0.770	0.782	0.737	11.44
62) TP 4-Methyl-2-pen...		0.142	0.123	0.162	0.143	0.136	0.146	0.142	0.146	0.142	7.53
63) TP Tetrachloroethene	0.228	0.200	0.277	0.342	0.358	0.341	0.362	0.355	0.363	*L	0.9997
65) TP trans-1,3-Dich...		0.354	0.380	0.502	0.488	0.475	0.515	0.501	0.506	0.465	13.38
67) TP Ethyl methacry...		0.331	0.327	0.442	0.410	0.393	0.422	0.410	0.416	0.394	10.67
68) TP 1,1,2-Trichlor...		0.166	0.196	0.262	0.231	0.218	0.236	0.230	0.234	0.222	13.11
69) TP Chlorodibromom...	0.252	0.241	0.273	0.378	0.344	0.329	0.358	0.353	0.361	0.321	16.09
70) TP 1,3-Dichloropr...		0.343	0.368	0.489	0.469	0.451	0.485	0.472	0.476	0.444	12.68
71) TP 1,2-Dibromoethane	0.252	0.234	0.233	0.289	0.280	0.275	0.291	0.287	0.290	0.270	8.82
72) TP 2-Hexanone		0.300	0.265	0.305	0.264	0.249	0.268	0.262	0.265	0.272	7.14
73) TP Chlorobenzene	0.735	0.661	0.753	0.966	0.887	0.851	0.896	0.866	0.872	0.832	11.50
74) TC Ethylbenzene		1.014	1.199	1.547	1.495	1.434	1.503	1.418	1.407	1.377	13.09

Response Factor Report VOA 129

Method Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Method File : V129_230308N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Mar 09 17:16:29 2023
 Response Via : Initial Calibration

Calibration Files

0.5 =V29230308N20.D 1 =V29230308N21.D 2 =V29230308N06.D 4 =V29230308N07.D 20 =V29230308N08.D
 40 =V29230308N09.D 100 =V29230308N10.D 200 =V29230308N11.D 300 =V29230308N12.D

Compound	0.5	1	2	4	20	40	100	200	300	Avg	%RSD
75) TP 1,1,1,2-Tetrac...	0.243	0.220	0.254	0.352	0.334	0.322	0.343	0.334	0.341	0.305	16.70
76) TP p/m Xylene	0.477	0.397	0.489	0.613	0.588	0.557	0.579	0.553	0.545	0.533	12.60
77) TP o Xylene	0.447	0.391	0.474	0.609	0.574	0.539	0.566	0.536	0.536	0.519	13.30
78) TP Styrene	0.777	0.672	0.783	1.051	0.964	0.915	0.944	0.878	0.822	0.867	13.35
79) I 1,4-Dichlorobenzene-d4	-----ISTD-----										
80) TP Bromoform	0.291	0.322	0.478	0.414	0.412	0.444	0.448	0.457	0.408		16.41
82) TP Isopropylbenzene	1.718	2.175	2.891	2.687	2.643	2.741	2.670	2.643	2.521		15.21
83) S 4-Bromofluorob...	0.886	0.905	0.892	0.895	0.900	0.896	0.893	0.907	0.916	0.899	1.02
84) TP Bromobenzene	0.488	0.564	0.772	0.689	0.678	0.721	0.718	0.735	0.671		14.26
85) TP n-Propylbenzene	2.085	2.700	3.516	3.252	3.177	3.230	3.108	2.978	3.006		14.63
86) TP 1,4-Dichlorobu...	0.843	0.861	1.169	0.976	0.959	0.998	0.990	0.995	0.974		10.23
87) TP 1,1,2,2-Tetrac...	0.529	0.483	0.535	0.798	0.638	0.613	0.662	0.677	0.681	0.624	15.53
88) TP 4-Ethyltoluene	1.843	2.302	2.987	2.751	2.671	2.744	2.670	2.627	2.574		13.62
89) TP 2-Chlorotoluene	1.311	1.572	2.103	1.879	1.828	1.916	1.863	1.892	1.795		13.56
90) TP 1,3,5-Trimethy...	1.529	1.991	2.593	2.380	2.310	2.369	2.312	2.295	2.222		14.62
91) TP 1,2,3-Trichlor...	0.332	0.364	0.596	0.505	0.500	0.516	0.525	0.528	0.483		18.41
92) TP trans-1,4-Dich...	0.184	0.155	0.263	0.223	0.226	0.230	0.231	0.238	0.219		15.36
93) TP 4-Chlorotoluene	1.370	1.649	2.253	2.026	1.997	2.053	2.009	2.011	1.921		14.44
94) TP tert-Butylbenzene	1.301	1.617	2.144	2.016	1.964	2.051	2.014	2.011	1.890		15.00
97) TP 1,2,4-Trimethy...	1.598	1.909	2.591	2.329	2.284	2.362	2.311	2.283	2.208		14.00
98) TP sec-Butylbenzene	1.856	2.390	3.172	3.024	2.919	2.990	2.895	2.814	2.757		15.58
99) TP p-Isopropyltol...	1.674	2.141	2.852	2.646	2.580	2.638	2.554	2.483	2.446		15.16
100) TP 1,3-Dichlorobe...	0.957	1.105	1.564	1.344	1.325	1.374	1.359	1.359	1.298		14.27
101) TP 1,4-Dichlorobe...	1.033	1.149	1.618	1.354	1.335	1.384	1.366	1.363	1.325		13.06
102) TP p-Diethylbenzene	0.969	1.313	1.716	1.604	1.561	1.609	1.587	1.588	1.493		16.11
103) TP n-Butylbenzene	1.386	1.879	2.499	2.340	2.261	2.327	2.234	2.189	2.139		16.44
104) TP 1,2-Dichlorobe...	0.952	1.066	1.514	1.273	1.260	1.296	1.289	1.291	1.243		13.54
105) TP 1,2,4,5-Tetram...	1.712	1.990	2.718	2.476	2.431	2.511	2.464	2.416	2.340		13.87
106) TP 1,2-Dibromo-3-...	0.105	0.108	0.156	0.127	0.120	0.130	0.131	0.132	0.126		12.64
107) TP 1,3,5-Trichlor...	0.736	0.843	1.225	1.050	1.037	1.068	1.046	1.059	1.008		14.92
108) TP Hexachlorobuta...	0.307	0.426	0.568	0.541	0.531	0.558	0.535	0.541	0.501		17.88

Response Factor Report VOA 129

Method Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Method File : V129_230308N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Mar 09 17:16:29 2023
 Response Via : Initial Calibration

Calibration Files

0.5 =V29230308N20.D 1 =V29230308N21.D 2 =V29230308N06.D 4 =V29230308N07.D 20 =V29230308N08.D
 40 =V29230308N09.D 100 =V29230308N10.D 200 =V29230308N11.D 300 =V29230308N12.D

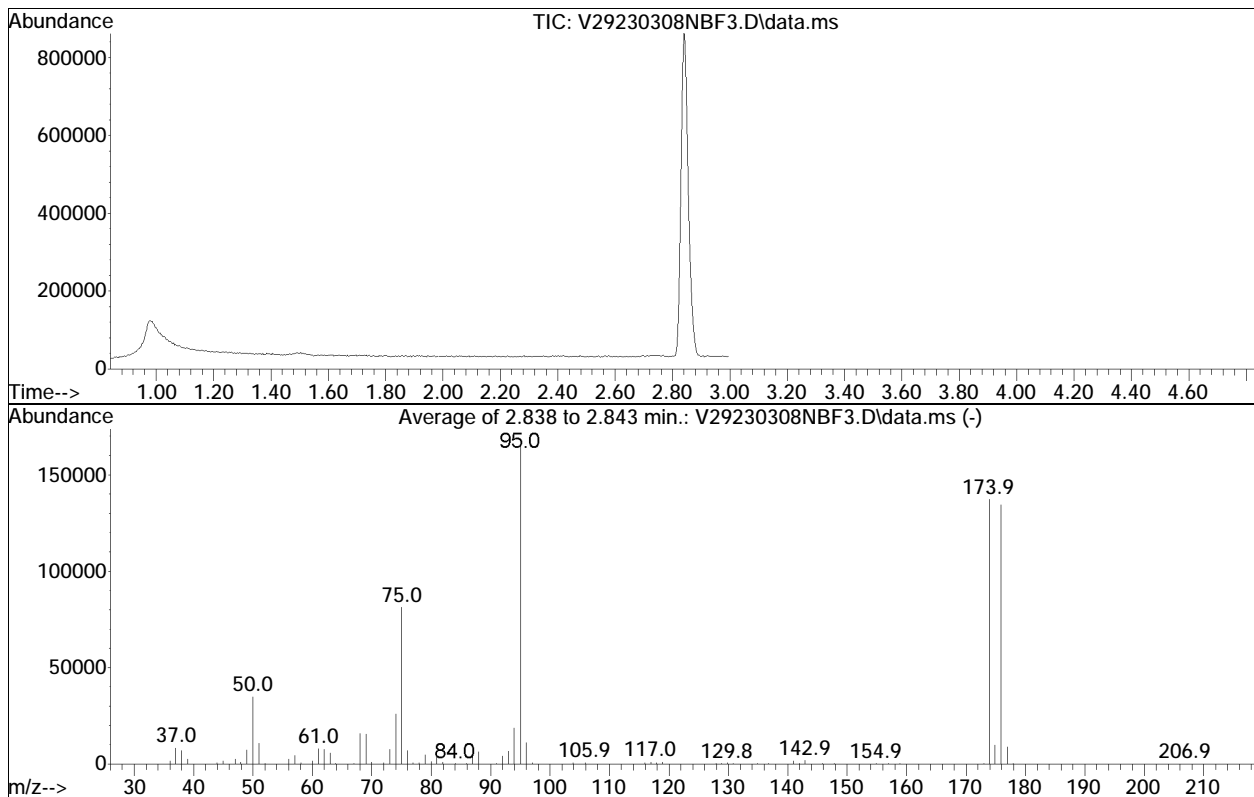
Compound	0.5	1	2	4	20	40	100	200	300	Avg	%RSD
109) TP 1,2,4-Trichlor...	0.702	0.799	1.134	0.972	0.959	0.989	0.983	0.994	0.941	14.07	
110) TP Naphthalene	2.032	1.894	2.561	2.199	2.152	2.243	2.194	2.173	2.181	8.74	
111) TP 1,2,3-Trichlor...	0.699	0.732	1.014	0.894	0.885	0.912	0.898	0.920	0.869	11.91	

(#) = Out of Range

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308NBF3.D
 Acq On : 08 Mar 2023 04:14 pm
 Operator : VOA129:LAC
 Sample : WG1753306-1
 Misc : WG1753306,ICAL
 ALS Vial : 3 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Mar 09 17:16:29 2023



Spectrum Information: Average of 2.838 to 2.843 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.0	34858	PASS
75	95	30	60	49.1	81264	PASS
95	95	100	100	100.0	165625	PASS
96	95	5	9	6.8	11310	PASS
173	174	0.00	2	0.3	392	PASS
174	95	50	100	82.9	137259	PASS
175	174	5	9	7.2	9878	PASS
176	174	95	101	98.0	134539	PASS
177	176	5	9	6.8	9142	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N06.D
 Acq On : 08 Mar 2023 06:23 pm
 Operator : VOA129:AJK
 Sample : I8260STD2PPB
 Misc : WG1753306,ICAL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 09 18:04:51 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	5.898	96	468569	20.000	ug/L	0.00	
Standard Area 1 = 488686			Recovery =	95.88%			
59) Chlorobenzene-d5	8.740	117	365630	20.000	ug/L	0.00	
Standard Area 1 = 366696			Recovery =	99.71%			
79) 1,4-Dichlorobenzene-d4	10.187	152	202723	20.000	ug/L	0.00	
Standard Area 1 = 195456			Recovery =	103.72%			
System Monitoring Compounds							
36) Dibromofluoromethane	4.970	113	123254	20.330	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	101.65%			
43) 1,2-Dichloroethane-d4	5.568	65	136823	20.579	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	102.90%			
60) Toluene-d8	7.534	98	469491	19.562	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	97.81%			
83) 4-Bromofluorobenzene	9.527	95	180757	19.901	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.50%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.075	85	7965M1	1.595	ug/L		
3) Chloromethane	1.221	50	12300	1.720	ug/L		94
4) Vinyl chloride	1.269	62	10559M1	1.726	ug/L		
5) Bromomethane	1.505	94	4598M3	1.584	ug/L		
6) Chloroethane	1.599	64	6348	1.864	ug/L		78
7) Trichlorofluoromethane	1.714	101	12012	1.659	ug/L		98
8) Ethyl ether	1.982	74	3964	1.775	ug/L		90
10) 1,1-Dichloroethene	2.128	96	8242	1.957	ug/L #		66
11) Carbon disulfide	2.139	76	26500	1.745	ug/L		99
12) Freon-113	2.181	101	7428	1.551	ug/L #		78
14) Acrolein	0.000		0	N.D.	d		
15) Methylene chloride	2.684	84	9721	1.830	ug/L		91
17) Acetone	2.742	43	7402	5.776	ug/L		92
18) trans-1,2-Dichloroethene	2.852	96	9141	1.785	ug/L		82
19) Methyl acetate	2.904	43	6473	1.752	ug/L #		83
20) Methyl tert-butyl ether	3.015	73	19235	1.490	ug/L #		81
21) tert-Butyl alcohol	3.182	59	7352	10.474	ug/L		98
22) Diisopropyl ether	3.513	45	34233	1.635	ug/L		95
23) 1,1-Dichloroethane	3.581	63	17278	1.741	ug/L		97
24) Halothane	3.759	117	8015	1.937	ug/L		94
25) Acrylonitrile	3.639	53	3789	2.040	ug/L #		57

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N06.D
 Acq On : 08 Mar 2023 06:23 pm
 Operator : VOA129:AJK
 Sample : I8260STD2PPB
 Misc : WG1753306,ICAL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 09 18:04:51 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.021	59	30510	1.571	ug/L	82
27) Vinyl acetate	4.006	43	22179	1.707	ug/L #	94
28) cis-1,2-Dichloroethene	4.346	96	10171	1.783	ug/L #	79
29) 2,2-Dichloropropane	4.483	77	15238	1.910	ug/L #	81
30) Bromochloromethane	4.608	128	5319	1.850	ug/L #	60
31) Cyclohexane	4.603	56	18070	1.565	ug/L	90
32) Chloroform	4.750	83	16109	1.722	ug/L	94
33) Ethyl acetate	4.970	43	9083	1.498	ug/L #	92
34) Carbon tetrachloride	4.876	117	12478	1.696	ug/L	95
35) Tetrahydrofuran	0.000		0	N.D.	d	
37) 1,1,1-Trichloroethane	4.965	97	12925	1.599	ug/L #	86
39) 2-Butanone	0.000		0	N.D.	d	
40) 1,1-Dichloropropene	5.122	75	11933	1.661	ug/L	86
41) Benzene	5.405	78	33173	1.604	ug/L	95
42) tert-Amyl methyl ether	5.631	73	25573	1.654	ug/L	95
44) 1,2-Dichloroethane	5.641	62	13286	1.801	ug/L	97
47) Methyl cyclohexane	6.077	83	15170	1.536	ug/L	84
48) Trichloroethene	6.098	95	9621	1.621	ug/L	93
50) Dibromomethane	6.517	93	6324	1.938	ug/L	97
51) 1,2-Dichloropropane	6.617	63	11328	1.792	ug/L #	92
53) 2-Chloroethyl vinyl ether	7.340	63	7070	1.769	ug/L #	83
54) Bromodichloromethane	6.727	83	13676	1.799	ug/L #	92
57) 1,4-Dioxane	6.952	88	4562	77.331	ug/L #	74
58) cis-1,3-Dichloropropene	7.361	75	15696	1.698	ug/L	91
61) Toluene	7.581	92	24195	1.784	ug/L	91
62) 4-Methyl-2-pentanone	7.927	58	4509	1.808	ug/L #	93
63) Tetrachloroethene	7.912	166	10121	1.623	ug/L	98
65) trans-1,3-Dichloropropene	7.959	75	13888	1.600	ug/L	96
67) Ethyl methacrylate	8.121	69	11970	1.665	ug/L	90
68) 1,1,2-Trichloroethane	8.074	83	7179	1.802	ug/L	97
69) Chlorodibromomethane	8.210	129	9967	1.657	ug/L	95
70) 1,3-Dichloropropane	8.273	76	13457	1.634	ug/L	94
71) 1,2-Dibromoethane	8.363	107	8524	1.693	ug/L	97
72) 2-Hexanone	8.572	43	9707	2.133	ug/L #	85
73) Chlorobenzene	8.751	112	27530	1.770	ug/L	98
74) Ethylbenzene	8.787	91	43857	1.673	ug/L	95
75) 1,1,1,2-Tetrachloroethane	8.803	131	9274	1.574	ug/L	85
76) p/m Xylene	8.887	106	35748	3.510	ug/L	93
77) o Xylene	9.159	106	34648	3.516	ug/L	90
78) Styrene	9.196	104	57240	3.420	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N06.D
 Acq On : 08 Mar 2023 06:23 pm
 Operator : VOA129:AJK
 Sample : I8260STD2PPB
 Misc : WG1753306,ICAL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 09 18:04:51 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Bromoform	9.207	173	6521	1.561	ug/L	90
82) Isopropylbenzene	9.364	105	44097	1.646	ug/L	93
84) Bromobenzene	9.589	156	11436	1.663	ug/L	99
85) n-Propylbenzene	9.616	91	54729	1.699	ug/L	95
86) 1,4-Dichlorobutane	9.621	55	17454	1.795	ug/L	97
87) 1,1,2,2-Tetrachloroethane	9.663	83	10837	1.743	ug/L	99
88) 4-Ethyltoluene	9.684	105	46658	1.724	ug/L	97
89) 2-Chlorotoluene	9.705	91	31868M6	1.720	ug/L	
90) 1,3,5-Trimethylbenzene	9.736	105	40369	1.724	ug/L	95
91) 1,2,3-Trichloropropane	9.731	75	7370	1.453	ug/L	85
92) trans-1,4-Dichloro-2-b...	9.762	53	3145	1.375	ug/L #	68
93) 4-Chlorotoluene	9.804	91	33423	1.651	ug/L	93
94) tert-Butylbenzene	9.920	119	32776	1.646	ug/L	93
97) 1,2,4-Trimethylbenzene	9.962	105	38690	1.671	ug/L	93
98) sec-Butylbenzene	10.025	105	48457	1.638	ug/L	99
99) p-Isopropyltoluene	10.108	119	43397	1.660	ug/L	98
100) 1,3-Dichlorobenzene	10.145	146	22401	1.668	ug/L	99
101) 1,4-Dichlorobenzene	10.198	146	23288	1.721	ug/L #	91
102) p-Diethylbenzene	10.318	119	26616	1.683	ug/L	93
103) n-Butylbenzene	10.350	91	38094	1.662	ug/L	98
104) 1,2-Dichlorobenzene	10.439	146	21604	1.691	ug/L	98
105) 1,2,4,5-Tetramethylben...	10.769	119	40335	1.637	ug/L	98
106) 1,2-Dibromo-3-chloropr...	10.890	155	2182	1.791	ug/L	83
107) 1,3,5-Trichlorobenzene	10.911	180	17088	1.626	ug/L	96
108) Hexachlorobutadiene	11.252	225	8631	1.604	ug/L	99
109) 1,2,4-Trichlorobenzene	11.267	180	16194	1.666	ug/L	96
110) Naphthalene	11.445	128	38386	1.760	ug/L	100
111) 1,2,3-Trichlorobenzene	11.550	180	14836	1.654	ug/L	98

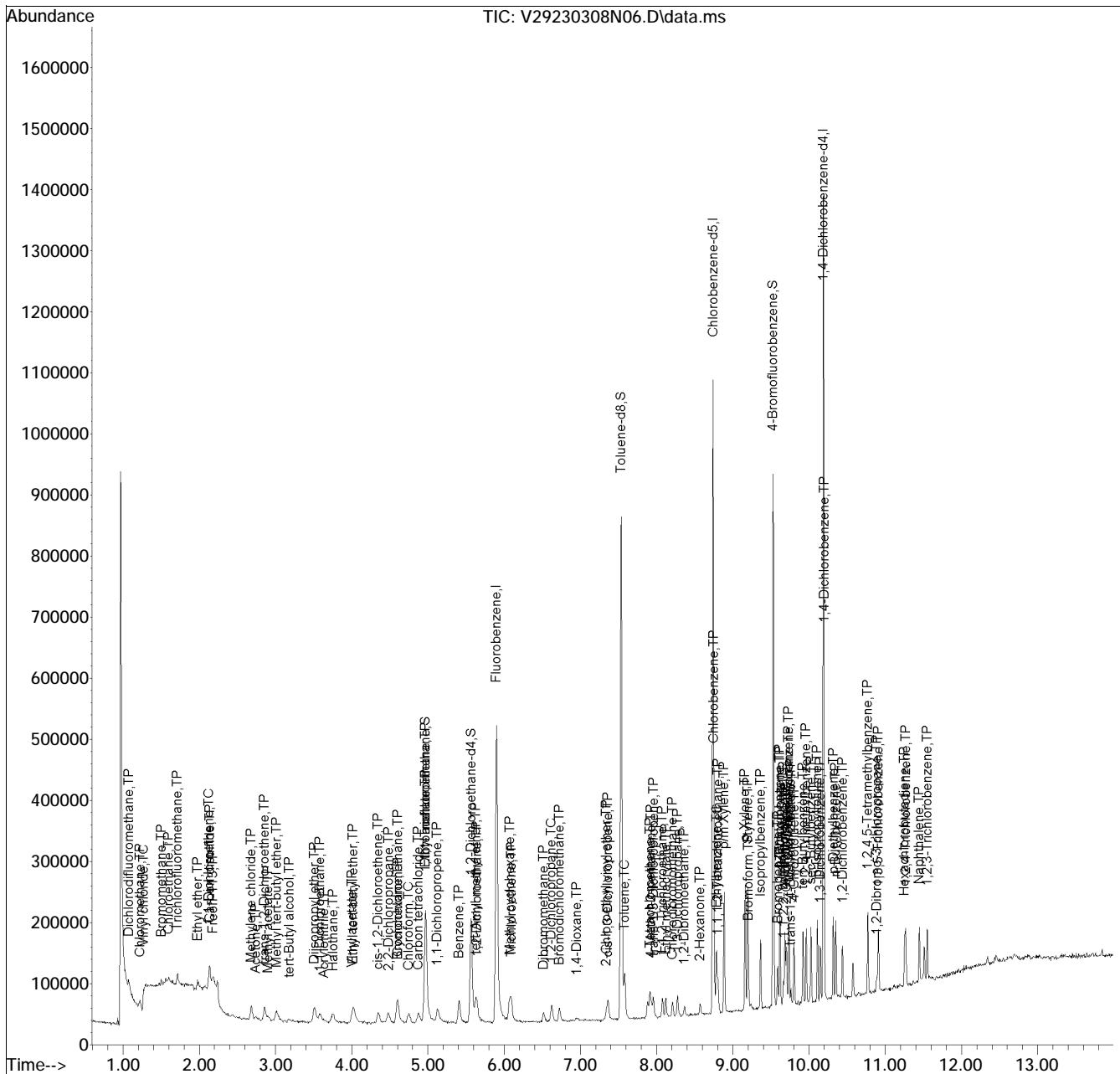
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
Data File : V29230308N06.D
Acq On : 08 Mar 2023 06:23 pm
Operator : VOA129:AJK
Sample : I8260STD2PPB
Misc : WG1753306,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 09 18:04:51 2023
Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 13:04:01 2023
Response via : Initial Calibration

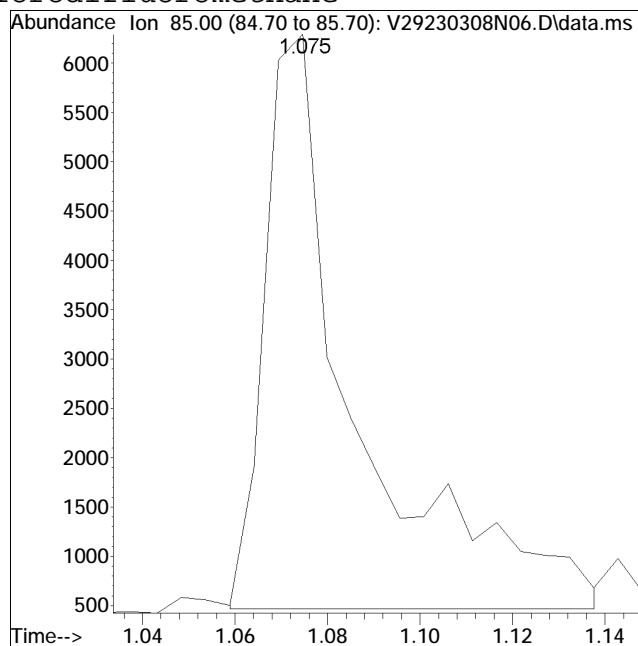
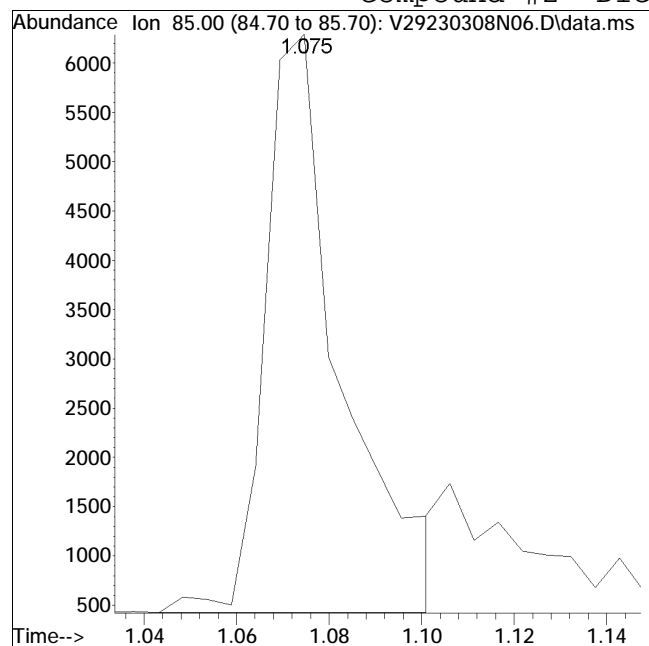
Sub List : 8260-CurveSoil - Megamix plus Diox8N-ICAL\V29230308N09.D



Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N06.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 6:23 pm Instrument : VOA 129
Sample : I8260STD2PPB Quant Date : 3/9/2023 1:04 pm

Compound #2: Dichlorodifluoromethane



Original Peak Response = 6698

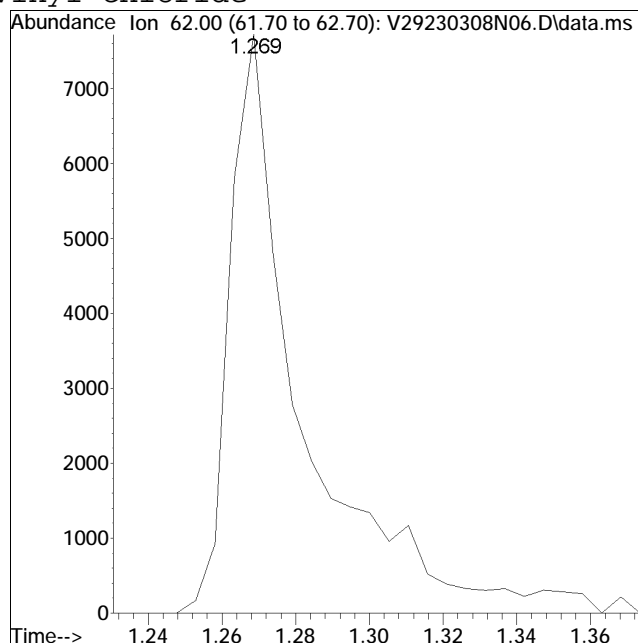
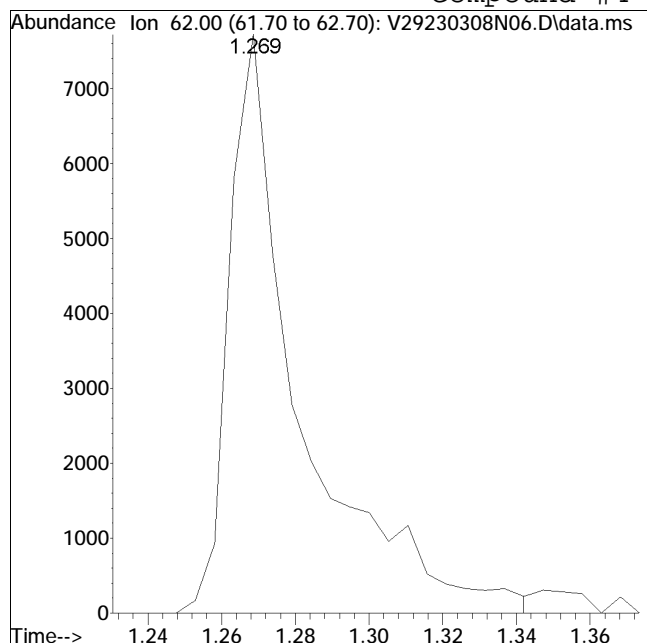
Manual Peak Response = 7965 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N06.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 6:23 pm Instrument : VOA 129
Sample : I8260STD2PPB Quant Date : 3/9/2023 1:04 pm

Compound #4: Vinyl chloride



Original Peak Response = 10292

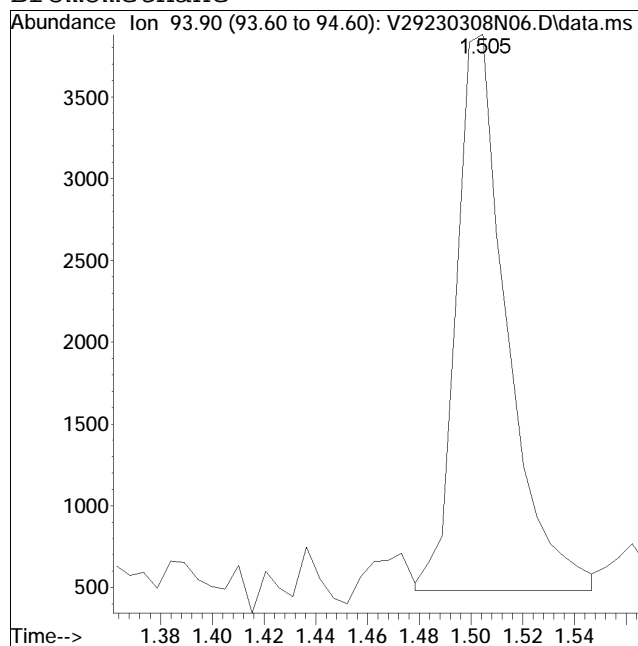
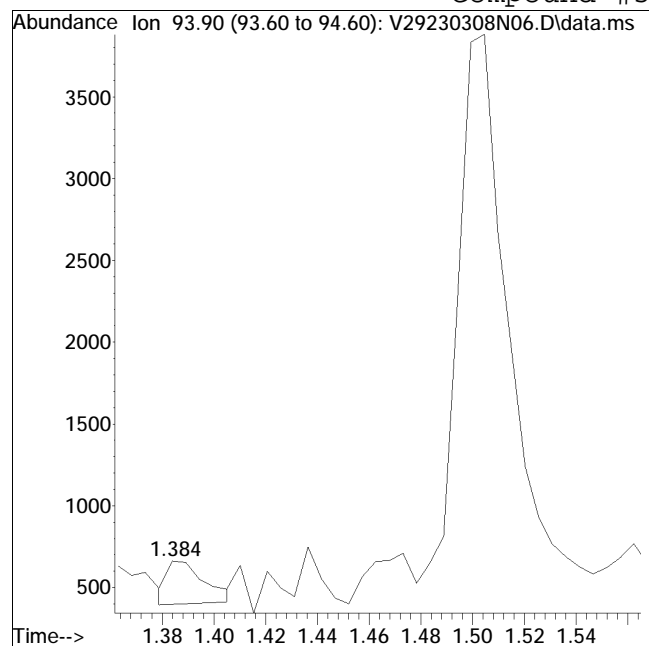
Manual Peak Response = 10559 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N06.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 6:23 pm Instrument : VOA 129
Sample : I8260STD2PPB Quant Date : 3/9/2023 1:04 pm

Compound #5: Bromomethane



Original Peak Response = 267

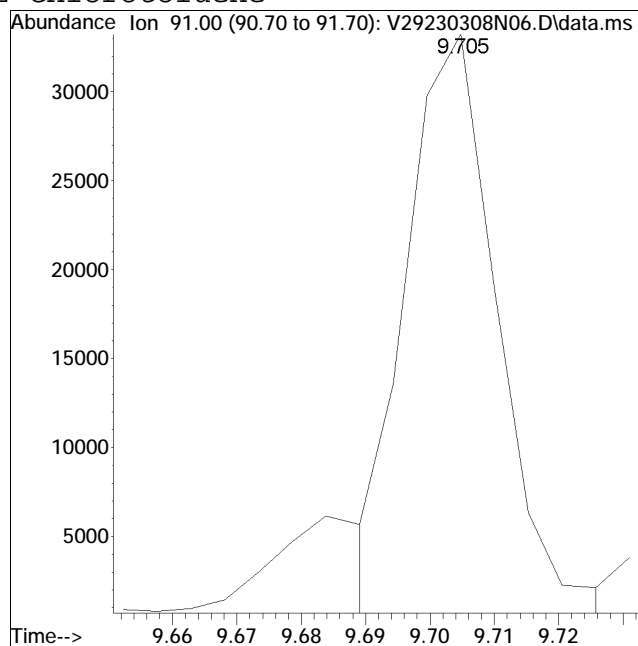
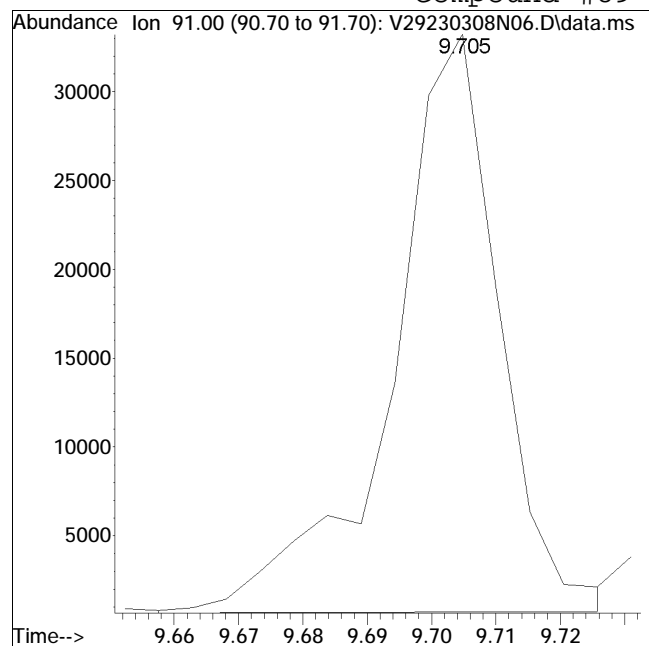
Manual Peak Response = 4598 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N06.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 6:23 pm Instrument : VOA 129
Sample : I8260STD2PPB Quant Date : 3/9/2023 1:04 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 37455

Manual Peak Response = 31868 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N07.D
 Acq On : 08 Mar 2023 06:44 pm
 Operator : VOA129:AJK
 Sample : I8260STD4PPB
 Misc : WG1753306,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 09 18:05:52 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.898	96	474817	20.000	ug/L	0.00
Standard Area 1 = 488686			Recovery =	97.16%		
59) Chlorobenzene-d5	8.740	117	366194	20.000	ug/L	0.00
Standard Area 1 = 366696			Recovery =	99.86%		
79) 1,4-Dichlorobenzene-d4	10.187	152	198782	20.000	ug/L	0.00
Standard Area 1 = 195456			Recovery =	101.70%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.965	113	125128	20.367	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	101.84%		
43) 1,2-Dichloroethane-d4	5.563	65	144509	21.450	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	107.25%		
60) Toluene-d8	7.534	98	473338	19.692	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.46%		
83) 4-Bromofluorobenzene	9.527	95	177979	19.984	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.92%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.069	85	21849	4.317	ug/L	97
3) Chloromethane	1.221	50	32451	4.479	ug/L	99
4) Vinyl chloride	1.269	62	25888	4.175	ug/L	90
5) Bromomethane	1.505	94	11913	4.051	ug/L	100
6) Chloroethane	1.599	64	13933	4.038	ug/L	99
7) Trichlorofluoromethane	1.714	101	29789	4.060	ug/L	100
8) Ethyl ether	1.982	74	9463	4.181	ug/L	88
10) 1,1-Dichloroethene	2.128	96	17271	4.046	ug/L	80
11) Carbon disulfide	2.139	76	63100	4.101	ug/L	93
12) Freon-113	2.181	101	19955	4.112	ug/L	95
14) Acrolein	2.438	56	4411	5.634	ug/L	96
15) Methylene chloride	2.679	84	23580	4.380	ug/L	89
17) Acetone	2.742	43	10874	8.374	ug/L	94
18) trans-1,2-Dichloroethene	2.852	96	20381	3.927	ug/L	89
19) Methyl acetate	2.894	43	17603	4.702	ug/L #	94
20) Methyl tert-butyl ether	3.015	73	52658	4.024	ug/L	98
21) tert-Butyl alcohol	3.182	59	20773	29.205	ug/L #	70
22) Diisopropyl ether	3.507	45	87047	4.104	ug/L	97
23) 1,1-Dichloroethane	3.581	63	44194	4.394	ug/L	97
24) Halothane	3.754	117	17891	4.267	ug/L #	68
25) Acrylonitrile	3.639	53	8115	4.312	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N07.D
 Acq On : 08 Mar 2023 06:44 pm
 Operator : VOA129:AJK
 Sample : I8260STD4PPB
 Misc : WG1753306,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 09 18:05:52 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.026	59	77724	3.949	ug/L	91
27) Vinyl acetate	4.006	43	54593	4.147	ug/L	99
28) cis-1,2-Dichloroethene	4.346	96	24868	4.301	ug/L #	79
29) 2,2-Dichloropropane	4.477	77	33383	4.129	ug/L	92
30) Bromochloromethane	4.603	128	11988	4.115	ug/L #	74
31) Cyclohexane	4.598	56	43848	3.747	ug/L	79
32) Chloroform	4.750	83	39463	4.164	ug/L	97
33) Ethyl acetate	4.970	43	27838	4.531	ug/L #	92
34) Carbon tetrachloride	4.881	117	30849	4.137	ug/L	98
35) Tetrahydrofuran	4.949	42	9610	4.706	ug/L #	76
37) 1,1,1-Trichloroethane	4.955	97	33242	4.058	ug/L #	93
39) 2-Butanone	5.138	43	15887	5.037	ug/L #	64
40) 1,1-Dichloropropene	5.122	75	28649	3.936	ug/L	92
41) Benzene	5.411	78	88083	4.203	ug/L	96
42) tert-Amyl methyl ether	5.626	73	63504	4.054	ug/L	95
44) 1,2-Dichloroethane	5.641	62	32239	4.312	ug/L	95
47) Methyl cyclohexane	6.077	83	36767	3.673	ug/L	94
48) Trichloroethene	6.092	95	24776	4.120	ug/L	92
50) Dibromomethane	6.517	93	15222	4.602	ug/L	92
51) 1,2-Dichloropropane	6.622	63	27563	4.303	ug/L #	93
53) 2-Chloroethyl vinyl ether	7.340	63	18873	4.661	ug/L	93
54) Bromodichloromethane	6.727	83	32748	4.252	ug/L #	98
57) 1,4-Dioxane	6.947	88	13693M1	229.057	ug/L	
58) cis-1,3-Dichloropropene	7.361	75	39942	4.265	ug/L	93
61) Toluene	7.581	92	58380	4.298	ug/L	96
62) 4-Methyl-2-pentanone	7.927	58	11868	4.752	ug/L #	93
63) Tetrachloroethene	7.912	166	25042	4.009	ug/L	89
65) trans-1,3-Dichloropropene	7.954	75	36757	4.227	ug/L	96
67) Ethyl methacrylate	8.116	69	32335	4.491	ug/L	98
68) 1,1,2-Trichloroethane	8.074	83	19211	4.814	ug/L	92
69) Chlorodibromomethane	8.210	129	27673	4.594	ug/L	95
70) 1,3-Dichloropropane	8.273	76	35815	4.341	ug/L	98
71) 1,2-Dibromoethane	8.363	107	21159	4.196	ug/L	95
72) 2-Hexanone	8.567	43	22315	4.896	ug/L	89
73) Chlorobenzene	8.751	112	70728	4.540	ug/L	92
74) Ethylbenzene	8.782	91	113292	4.315	ug/L	98
75) 1,1,1,2-Tetrachloroethane	8.803	131	25761	4.364	ug/L	96
76) p/m Xylene	8.887	106	89804	8.803	ug/L	96
77) o Xylene	9.159	106	89253	9.044	ug/L	89
78) Styrene	9.196	104	153994	9.188	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N07.D
 Acq On : 08 Mar 2023 06:44 pm
 Operator : VOA129:AJK
 Sample : I8260STD4PPB
 Misc : WG1753306,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 09 18:05:52 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Bromoform	9.207	173	19017	4.642	ug/L	97
82) Isopropylbenzene	9.364	105	114931	4.375	ug/L	96
84) Bromobenzene	9.589	156	30680	4.551	ug/L	95
85) n-Propylbenzene	9.616	91	139799	4.427	ug/L	96
86) 1,4-Dichlorobutane	9.616	55	46474	4.873	ug/L	96
87) 1,1,2,2-Tetrachloroethane	9.663	83	31742	5.207	ug/L	98
88) 4-Ethyltoluene	9.684	105	118767	4.475	ug/L	98
89) 2-Chlorotoluene	9.705	91	83604M6	4.602	ug/L	
90) 1,3,5-Trimethylbenzene	9.736	105	103070	4.488	ug/L	91
91) 1,2,3-Trichloropropane	9.731	75	23699	4.765	ug/L	94
92) trans-1,4-Dichloro-2-b...	9.762	53	10450	4.660	ug/L #	81
93) 4-Chlorotoluene	9.799	91	89572	4.512	ug/L	93
94) tert-Butylbenzene	9.920	119	85233	4.365	ug/L	95
97) 1,2,4-Trimethylbenzene	9.962	105	103000	4.537	ug/L	94
98) sec-Butylbenzene	10.025	105	126118	4.347	ug/L	97
99) p-Isopropyltoluene	10.108	119	113366	4.422	ug/L	97
100) 1,3-Dichlorobenzene	10.145	146	62165	4.720	ug/L	98
101) 1,4-Dichlorobenzene	10.198	146	64320	4.846	ug/L	97
102) p-Diethylbenzene	10.318	119	68211	4.397	ug/L	95
103) n-Butylbenzene	10.350	91	99333	4.420	ug/L	98
104) 1,2-Dichlorobenzene	10.439	146	60192	4.806	ug/L	97
105) 1,2,4,5-Tetramethylben...	10.769	119	108064	4.472	ug/L	97
106) 1,2-Dibromo-3-chloropr...	10.890	155	6190	5.181	ug/L	97
107) 1,3,5-Trichlorobenzene	10.911	180	48686	4.724	ug/L	92
108) Hexachlorobutadiene	11.252	225	22566	4.278	ug/L	98
109) 1,2,4-Trichlorobenzene	11.267	180	45066	4.729	ug/L	98
110) Naphthalene	11.445	128	101797	4.760	ug/L	100
111) 1,2,3-Trichlorobenzene	11.550	180	40323	4.584	ug/L	97

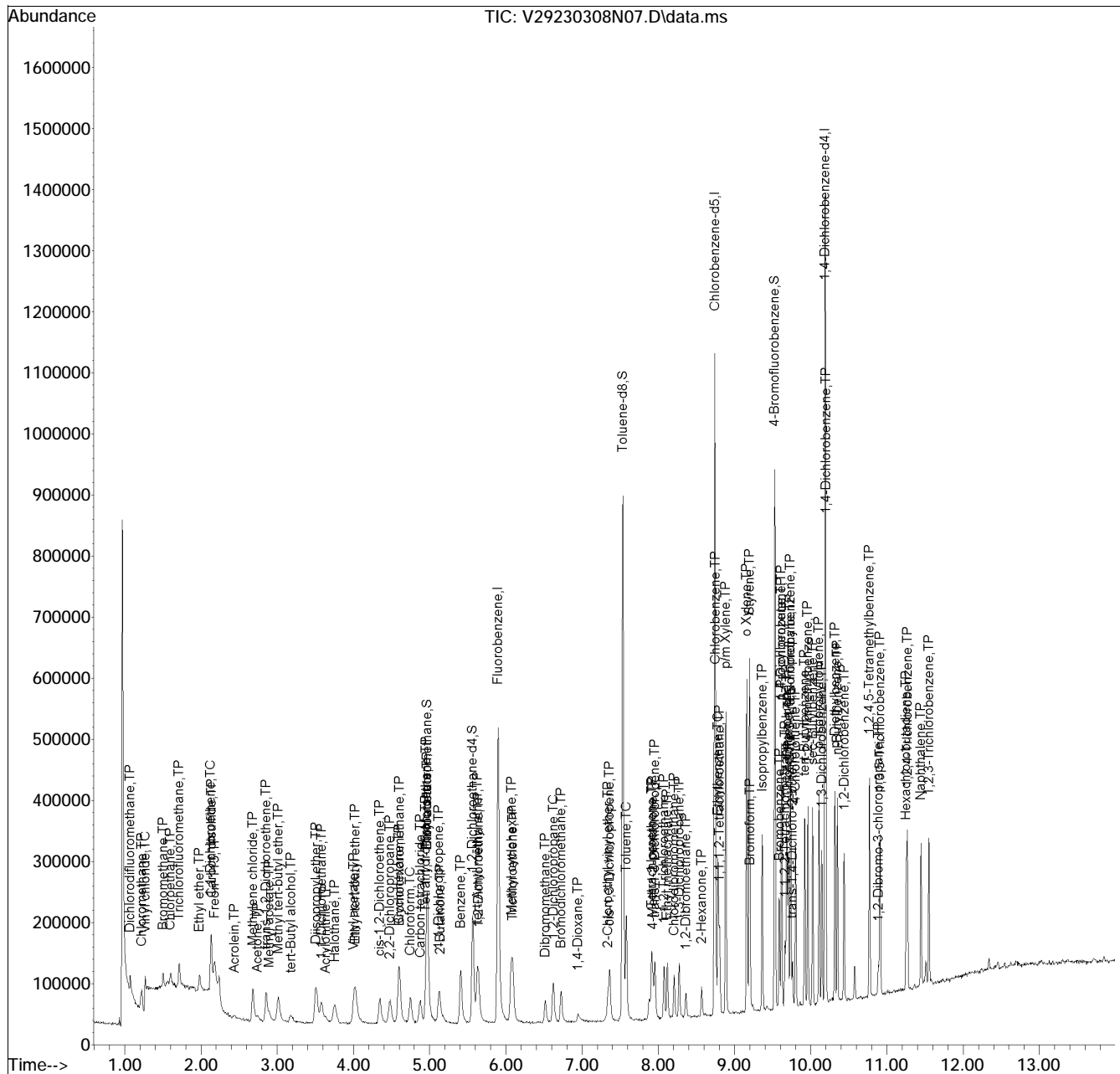
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N07.D
 Acq On : 08 Mar 2023 06:44 pm
 Operator : VOA129:AJK
 Sample : I8260STD4PPB
 Misc : WG1753306,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 09 18:05:52 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

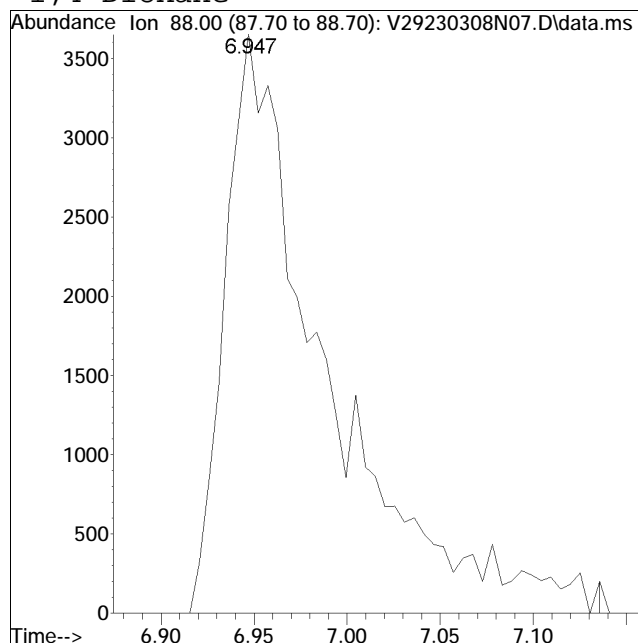
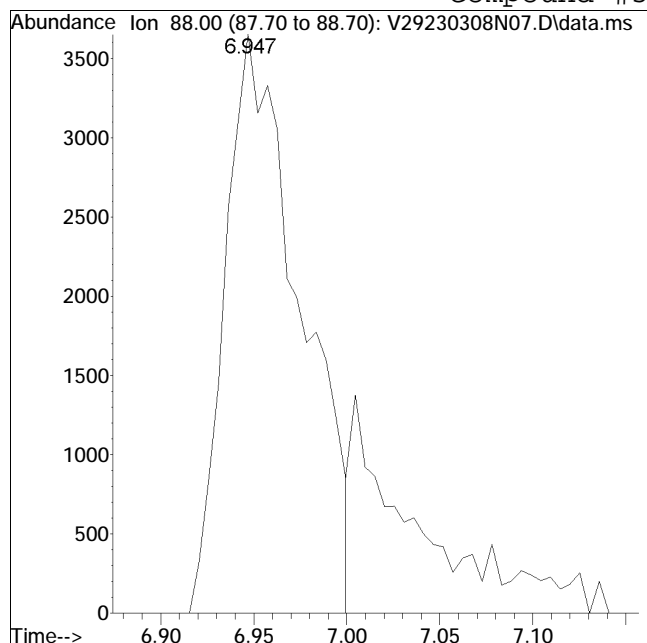
Sub List : 8260-CurveSoil - Megamix plus Diox8N-ICAL\V29230308N09.D



Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N07.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 6:44 pm Instrument : VOA 129
Sample : I8260STD4PPB Quant Date : 3/9/2023 1:04 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 10312

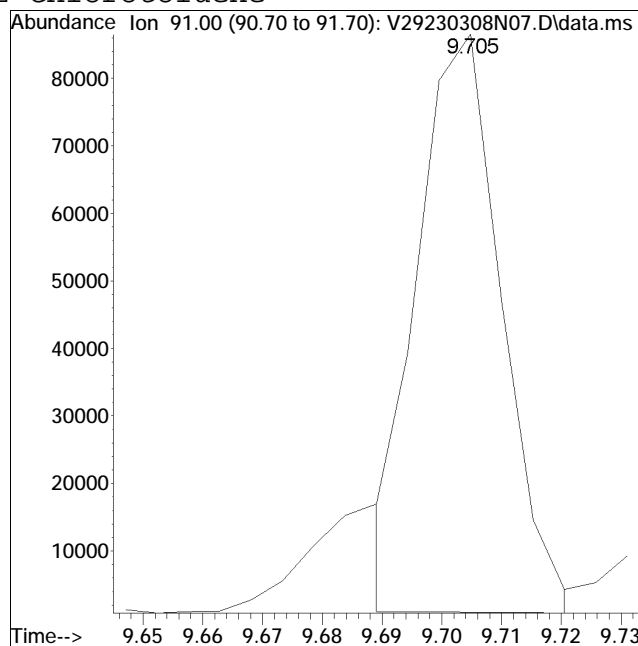
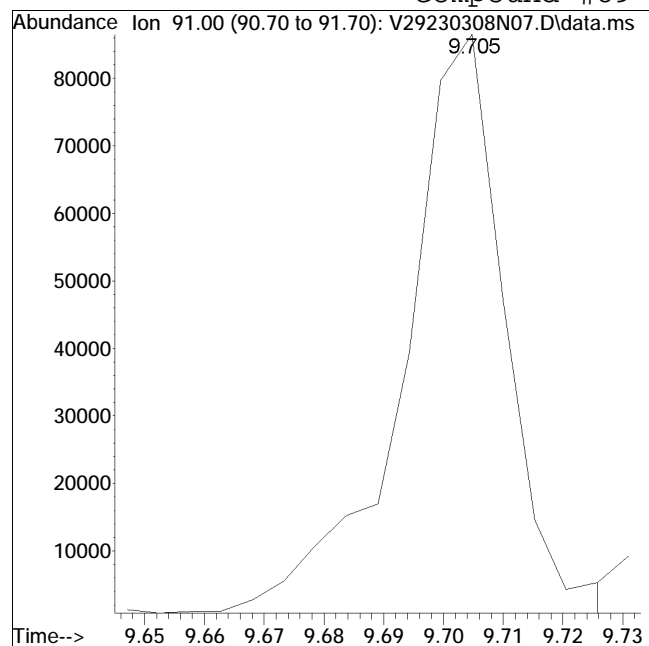
Manual Peak Response = 13693 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N07.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 6:44 pm Instrument : VOA 129
Sample : I8260STD4PPB Quant Date : 3/9/2023 1:04 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 100339

Manual Peak Response = 83604 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N08.D
 Acq On : 08 Mar 2023 07:04 pm
 Operator : VOA129:AJK
 Sample : I8260STD20PPB
 Misc : WG1753306,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 09 18:07:00 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.898	96	482880	20.000	ug/L	0.00
Standard Area 1 = 488686			Recovery = 98.81%			
59) Chlorobenzene-d5	8.740	117	371621	20.000	ug/L	0.00
Standard Area 1 = 366696			Recovery = 101.34%			
79) 1,4-Dichlorobenzene-d4	10.187	152	206108	20.000	ug/L	0.00
Standard Area 1 = 195456			Recovery = 105.45%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.970	113	127191	20.357	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 101.79%			
43) 1,2-Dichloroethane-d4	5.563	65	136656	19.945	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.72%			
60) Toluene-d8	7.534	98	477871	19.590	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 97.95%			
83) 4-Bromofluorobenzene	9.527	95	185527	20.091	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 100.46%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.069	85	109954	21.363	ug/L	99
3) Chloromethane	1.222	50	156992	21.305	ug/L	99
4) Vinyl chloride	1.269	62	136230	21.604	ug/L	96
5) Bromomethane	1.499	94	62680	20.958	ug/L	99
6) Chloroethane	1.599	64	74593	21.256	ug/L	98
7) Trichlorofluoromethane	1.714	101	164977	22.107	ug/L	96
8) Ethyl ether	1.982	74	51386	22.327	ug/L	82
10) 1,1-Dichloroethene	2.129	96	95548	22.010	ug/L	81
11) Carbon disulfide	2.139	76	334219	21.361	ug/L	97
12) Freon-113	2.181	101	109026	22.089	ug/L	97
14) Acrolein	2.438	56	20524	25.777	ug/L #	81
15) Methylene chloride	2.679	84	115987	21.183	ug/L	87
17) Acetone	2.747	43	32438	24.563	ug/L	97
18) trans-1,2-Dichloroethene	2.857	96	114097	21.619	ug/L	85
19) Methyl acetate	2.899	43	83903	22.036	ug/L #	94
20) Methyl tert-butyl ether	3.009	73	286164	21.505	ug/L	100
21) tert-Butyl alcohol	3.182	59	82102	113.500	ug/L #	77
22) Diisopropyl ether	3.508	45	458949	21.276	ug/L	97
23) 1,1-Dichloroethane	3.581	63	220478	21.555	ug/L	98
24) Halothane	3.754	117	90977	21.337	ug/L	99
25) Acrylonitrile	3.639	53	39308	20.536	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N08.D
 Acq On : 08 Mar 2023 07:04 pm
 Operator : VOA129:AJK
 Sample : I8260STD20PPB
 Misc : WG1753306,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 09 18:07:00 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.021	59	423058	21.138	ug/L	93
27) Vinyl acetate	4.000	43	286263	21.384	ug/L	97
28) cis-1,2-Dichloroethene	4.346	96	123975	21.083	ug/L #	77
29) 2,2-Dichloropropane	4.478	77	178864	21.753	ug/L	98
30) Bromochloromethane	4.603	128	63186	21.327	ug/L #	68
31) Cyclohexane	4.598	56	255155	21.441	ug/L	87
32) Chloroform	4.750	83	205412	21.310	ug/L	98
33) Ethyl acetate	4.965	43	137379	21.985	ug/L #	97
34) Carbon tetrachloride	4.876	117	166345	21.934	ug/L	98
35) Tetrahydrofuran	4.939	42	41651	20.057	ug/L #	82
37) 1,1,1-Trichloroethane	4.960	97	178700	21.450	ug/L #	95
39) 2-Butanone	5.133	43	77450	24.148	ug/L #	67
40) 1,1-Dichloropropene	5.122	75	155813	21.050	ug/L	94
41) Benzene	5.406	78	457888	21.482	ug/L	95
42) tert-Amyl methyl ether	5.626	73	334523	21.000	ug/L	92
44) 1,2-Dichloroethane	5.647	62	162910	21.427	ug/L	98
47) Methyl cyclohexane	6.071	83	217606	21.377	ug/L	89
48) Trichloroethene	6.092	95	129111	21.113	ug/L	93
50) Dibromomethane	6.517	93	73261	21.781	ug/L	92
51) 1,2-Dichloropropane	6.622	63	138878	21.318	ug/L #	93
53) 2-Chloroethyl vinyl ether	7.335	63	89121	21.644	ug/L	95
54) Bromodichloromethane	6.727	83	165020	21.067	ug/L #	99
57) 1,4-Dioxane	6.947	88	61204M1	1006.727	ug/L	
58) cis-1,3-Dichloropropene	7.361	75	202315	21.240	ug/L	96
61) Toluene	7.581	92	292491	21.218	ug/L	95
62) 4-Methyl-2-pentanone	7.928	58	53074	20.940	ug/L #	89
63) Tetrachloroethene	7.912	166	132946	20.973	ug/L	88
65) trans-1,3-Dichloropropene	7.954	75	181328	20.548	ug/L	99
67) Ethyl methacrylate	8.116	69	152354	20.852	ug/L	99
68) 1,1,2-Trichloroethane	8.074	83	85699	21.159	ug/L	95
69) Chlorodibromomethane	8.205	129	127852	20.913	ug/L	95
70) 1,3-Dichloropropane	8.274	76	174320	20.821	ug/L	98
71) 1,2-Dibromoethane	8.363	107	103978	20.318	ug/L	97
72) 2-Hexanone	8.567	43	98283	21.248	ug/L	96
73) Chlorobenzene	8.751	112	329674	20.853	ug/L	93
74) Ethylbenzene	8.782	91	555741	20.855	ug/L	98
75) 1,1,1,2-Tetrachloroethane	8.803	131	124102	20.718	ug/L	94
76) p/m Xylene	8.887	106	436730	42.185	ug/L	98
77) o Xylene	9.160	106	426496	42.585	ug/L	91
78) Styrene	9.196	104	716708	42.138	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N08.D
 Acq On : 08 Mar 2023 07:04 pm
 Operator : VOA129:AJK
 Sample : I8260STD20PPB
 Misc : WG1753306,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 09 18:07:00 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Bromoform	9.207	173	85236	20.065	ug/L	97
82) Isopropylbenzene	9.364	105	553787	20.333	ug/L	96
84) Bromobenzene	9.590	156	142038	20.320	ug/L	97
85) n-Propylbenzene	9.616	91	670219	20.468	ug/L	96
86) 1,4-Dichlorobutane	9.616	55	201064	20.335	ug/L	92
87) 1,1,2,2-Tetrachloroethane	9.663	83	131408	20.789	ug/L	99
88) 4-Ethyltoluene	9.684	105	566902	20.599	ug/L	97
89) 2-Chlorotoluene	9.705	91	387214M6	20.558	ug/L	
90) 1,3,5-Trimethylbenzene	9.736	105	490495	20.600	ug/L	92
91) 1,2,3-Trichloropropane	9.731	75	104016	20.172	ug/L	99
92) trans-1,4-Dichloro-2-b...	9.757	53	46029	19.796	ug/L #	81
93) 4-Chlorotoluene	9.799	91	417520	20.284	ug/L	95
94) tert-Butylbenzene	9.920	119	415508	20.525	ug/L	97
97) 1,2,4-Trimethylbenzene	9.962	105	479959	20.389	ug/L	94
98) sec-Butylbenzene	10.025	105	623213	20.717	ug/L	97
99) p-Isopropyltoluene	10.109	119	545454	20.518	ug/L	96
100) 1,3-Dichlorobenzene	10.145	146	276996	20.285	ug/L	98
101) 1,4-Dichlorobenzene	10.198	146	279068	20.279	ug/L	97
102) p-Diethylbenzene	10.318	119	330635	20.558	ug/L	94
103) n-Butylbenzene	10.350	91	482281	20.698	ug/L	98
104) 1,2-Dichlorobenzene	10.439	146	262360	20.202	ug/L	98
105) 1,2,4,5-Tetramethylben...	10.769	119	510260	20.365	ug/L	98
106) 1,2-Dibromo-3-chloropr...	10.885	155	26089	21.062	ug/L	92
107) 1,3,5-Trichlorobenzene	10.911	180	216422	20.252	ug/L	94
108) Hexachlorobutadiene	11.252	225	111471	20.380	ug/L	96
109) 1,2,4-Trichlorobenzene	11.267	180	200286	20.272	ug/L	99
110) Naphthalene	11.446	128	453156	20.435	ug/L	100
111) 1,2,3-Trichlorobenzene	11.550	180	184361	20.214	ug/L	99

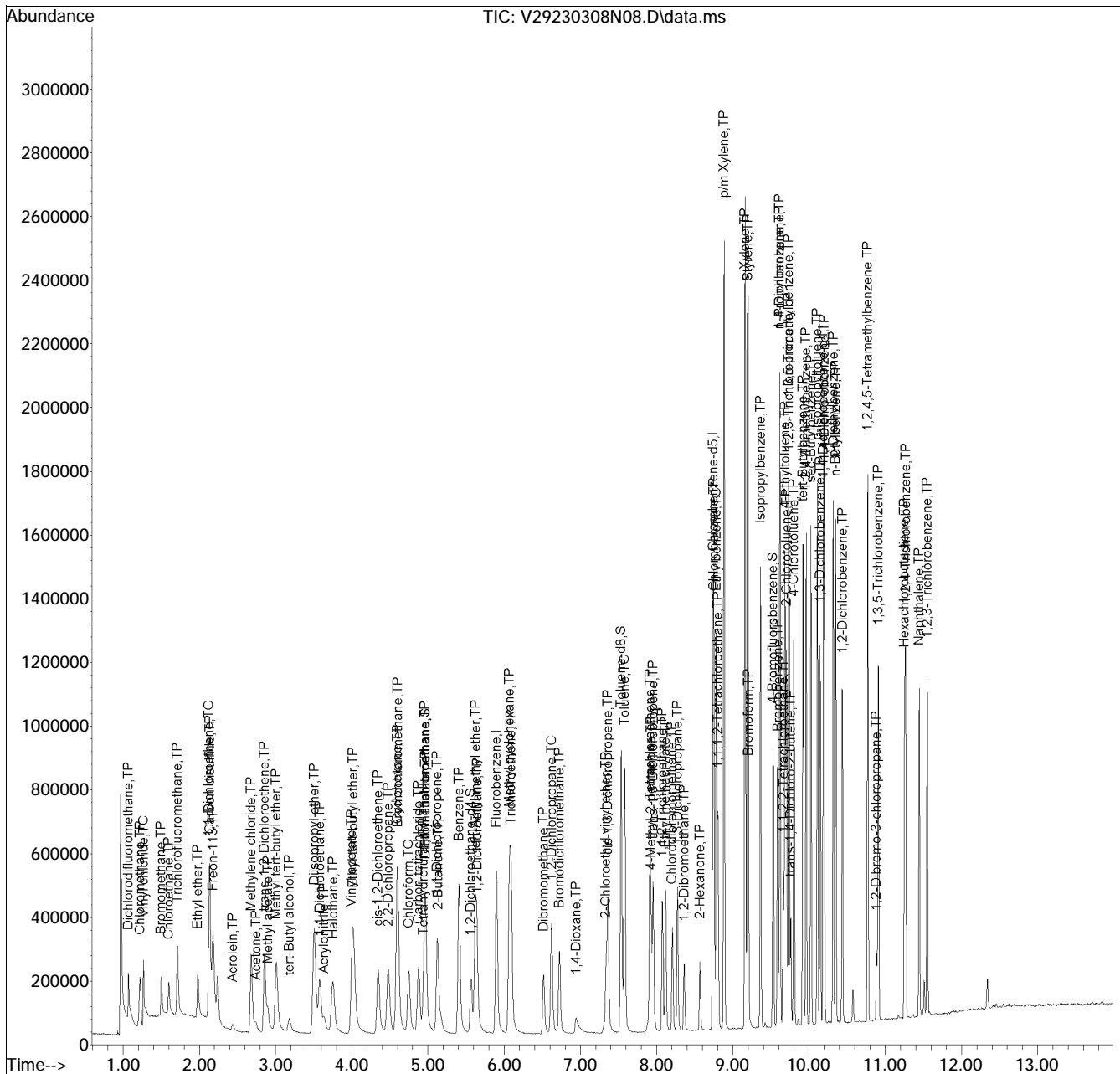
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N08.D
 Acq On : 08 Mar 2023 07:04 pm
 Operator : VOA129:AJK
 Sample : I8260STD20PPB
 Misc : WG1753306,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 09 18:07:00 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

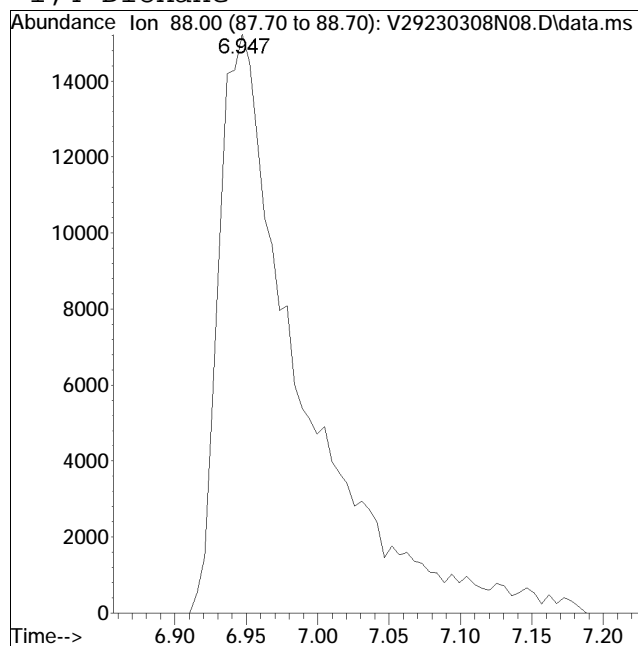
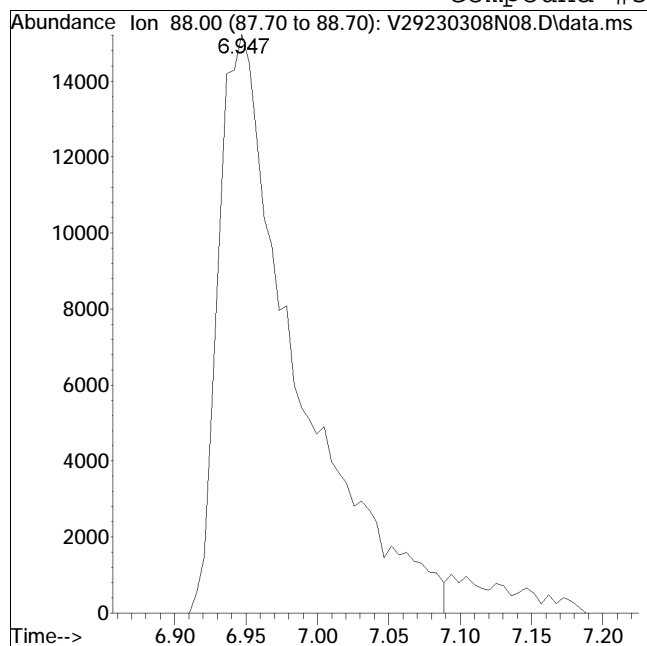
Sub List : 8260-CurveSoil - Megamix plus Diox8N-ICAL\V29230308N09.D



Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N08.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 7:04 pm Instrument : VOA 129
Sample : I8260STD20PPB Quant Date : 3/9/2023 1:04 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 57945

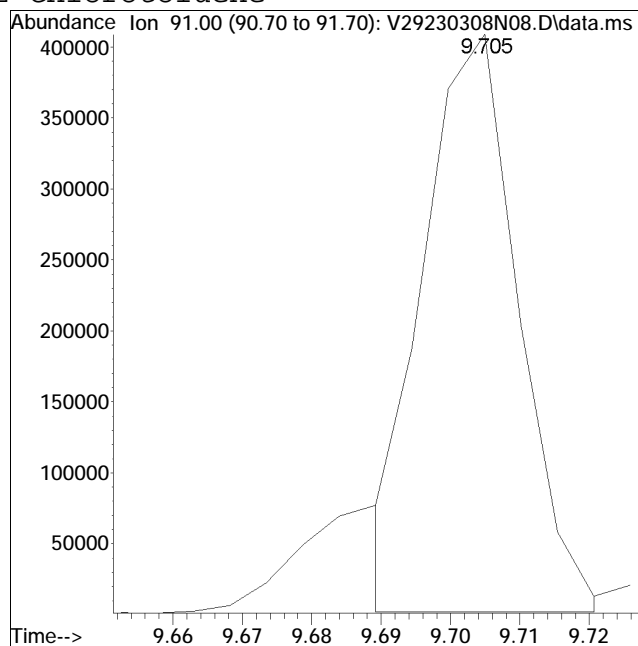
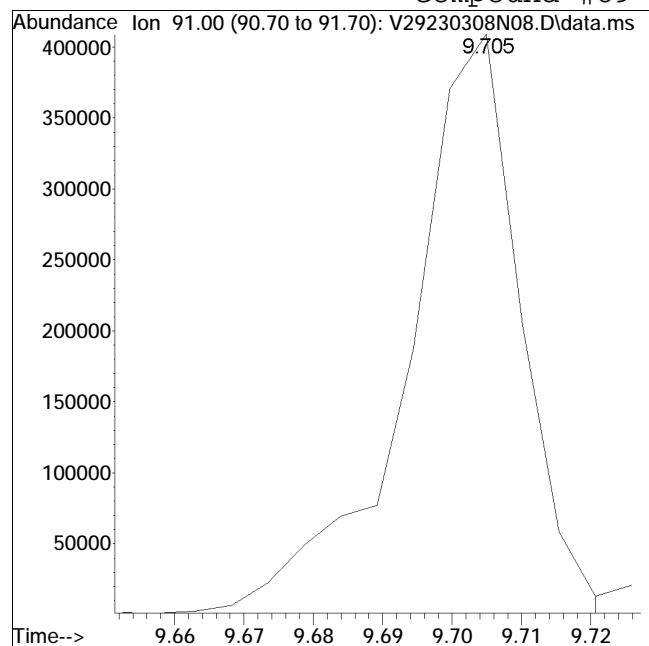
Manual Peak Response = 61204 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N08.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 7:04 pm Instrument : VOA 129
Sample : I8260STD20PPB Quant Date : 3/9/2023 1:04 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 457892

Manual Peak Response = 387214 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N09.D
 Acq On : 08 Mar 2023 07:25 pm
 Operator : VOA129:AJK
 Sample : I8260STD40PPB
 Misc : WG1753306,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 09 14:03:13 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Dec 30 10:37:19 2022
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	5.899	96	488686	20.000	ug/L	0.00	
Standard Area 1 = 488686			Recovery = 100.00%				
59) Chlorobenzene-d5	8.740	117	366696	20.000	ug/L	0.00	
Standard Area 1 = 366696			Recovery = 100.00%				
79) 1,4-Dichlorobenzene-d4	10.187	152	195456	20.000	ug/L	0.00	
Standard Area 1 = 195456			Recovery = 100.00%				
System Monitoring Compounds							
36) Dibromofluoromethane	4.965	113	126461	19.573	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery = 97.87%				
43) 1,2-Dichloroethane-d4	5.563	65	138679	21.731	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery = 108.66%				
60) Toluene-d8	7.534	98	481404	21.029	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery = 105.15%				
83) 4-Bromofluorobenzene	9.527	95	175143	21.728	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery = 108.64%				
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.070	85	208354	49.586	ug/L		99
3) Chloromethane	1.222	50	298294	58.433	ug/L		99
4) Vinyl chloride	1.269	62	255263	49.025	ug/L		96
5) Bromomethane	1.505	94	121068	28.912	ug/L		100
6) Chloroethane	1.599	64	142060	40.975	ug/L		99
7) Trichlorofluoromethane	1.714	101	302094	38.657	ug/L		99
8) Ethyl ether	1.982	74	93169	37.882	ug/L		89
10) 1,1-Dichloroethene	2.129	96	175735	38.610	ug/L		83
11) Carbon disulfide	2.139	76	633361	67.106	ug/L		97
12) Freon-113	2.181	101	199803	39.788	ug/L		93
14) Acrolein	2.438	56	32232	155.399	ug/L		100
15) Methylene chloride	2.679	84	221648	41.305	ug/L		86
17) Acetone	2.747	43	53459	36.679	ug/L		100
18) trans-1,2-Dichloroethene	2.857	96	213648	41.797	ug/L		87
19) Methyl acetate	2.899	43	154132	47.749	ug/L	#	94
20) Methyl tert-butyl ether	3.015	73	538673	44.770	ug/L		99
21) tert-Butyl alcohol	3.177	59	146412	200.908	ug/L	#	69
22) Diisopropyl ether	3.508	45	873212	55.770	ug/L		98
23) 1,1-Dichloroethane	3.581	63	414062	49.661	ug/L		100
24) Halothane	3.754	117	172601	42.521	ug/L		100
25) Acrylonitrile	3.639	53	77483	50.506	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N09.D
 Acq On : 08 Mar 2023 07:25 pm
 Operator : VOA129:AJK
 Sample : I8260STD40PPB
 Misc : WG1753306,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 09 14:03:13 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Dec 30 10:37:19 2022
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.021	59	810205	52.357	ug/L	93
27) Vinyl acetate	4.000	43	541901	50.866	ug/L	98
28) cis-1,2-Dichloroethene	4.347	96	238037	42.129	ug/L #	77
29) 2,2-Dichloropropane	4.478	77	332851	43.644	ug/L	98
30) Bromochloromethane	4.603	128	119935	41.211	ug/L #	65
31) Cyclohexane	4.598	56	481727	56.957	ug/L	89
32) Chloroform	4.750	83	390205	43.131	ug/L	98
33) Ethyl acetate	4.965	43	252958	51.325	ug/L #	94
34) Carbon tetrachloride	4.876	117	307002	42.149	ug/L	98
35) Tetrahydrofuran	4.934	42	84062	50.053	ug/L #	85
37) 1,1,1-Trichloroethane	4.960	97	337242	42.632	ug/L #	96
39) 2-Butanone	5.133	43	129837	56.681	ug/L #	66
40) 1,1-Dichloropropene	5.123	75	299648	46.068	ug/L	94
41) Benzene	5.406	78	862863	44.365	ug/L	95
42) tert-Amyl methyl ether	5.621	73	644833	44.169	ug/L	92
44) 1,2-Dichloroethane	5.642	62	307780	47.925	ug/L	98
47) Methyl cyclohexane	6.072	83	412078	45.294	ug/L	86
48) Trichloroethene	6.092	95	247553	44.762	ug/L	95
50) Dibromomethane	6.517	93	136159	41.719	ug/L	92
51) 1,2-Dichloropropane	6.622	63	263721	50.760	ug/L #	92
53) 2-Chloroethyl vinyl ether	7.335	63	166685	52.389	ug/L	93
54) Bromodichloromethane	6.727	83	317089	45.468	ug/L	97
57) 1,4-Dioxane	6.942	88	123052M1	2053.448	ug/L	
58) cis-1,3-Dichloropropene	7.361	75	385587	45.512	ug/L	96
61) Toluene	7.582	92	544103	45.158	ug/L	98
62) 4-Methyl-2-pentanone	7.928	58	100040	52.561	ug/L #	94
63) Tetrachloroethene	7.912	166	250202	42.858	ug/L	88
65) trans-1,3-Dichloropropene	7.954	75	348314	48.275	ug/L	100
67) Ethyl methacrylate	8.116	69	288382	48.649	ug/L	100
68) 1,1,2-Trichloroethane	8.074	83	159861	45.784	ug/L	95
69) Chlorodibromomethane	8.205	129	241304	43.207	ug/L	97
70) 1,3-Dichloropropane	8.274	76	330460	47.317	ug/L	98
71) 1,2-Dibromoethane	8.363	107	201986	44.324	ug/L	99
72) 2-Hexanone	8.567	43	182567	54.070	ug/L	97
73) Chlorobenzene	8.751	112	624007	44.559	ug/L	92
74) Ethylbenzene	8.782	91	1051776	46.475	ug/L	98
75) 1,1,1,2-Tetrachloroethane	8.803	131	236431	45.038	ug/L	96
76) p/m Xylene	8.887	106	817244	89.028	ug/L	98
77) o Xylene	9.160	106	790597	91.156	ug/L	91
78) Styrene	9.196	104	1342665	94.904	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N09.D
 Acq On : 08 Mar 2023 07:25 pm
 Operator : VOA129:AJK
 Sample : I8260STD40PPB
 Misc : WG1753306,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 09 14:03:13 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Dec 30 10:37:19 2022
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Bromoform	9.202	173	161141	41.964	ug/L	97
82) Isopropylbenzene	9.364	105	1033138	46.707	ug/L	96
84) Bromobenzene	9.590	156	265156	42.130	ug/L	96
85) n-Propylbenzene	9.616	91	1242117	48.178	ug/L	96
86) 1,4-Dichlorobutane	9.616	55	375071	58.099	ug/L	92
87) 1,1,2,2-Tetrachloroethane	9.658	83	239772	44.034	ug/L	100
88) 4-Ethyltoluene	9.684	105	1043938	47.837	ug/L	96
89) 2-Chlorotoluene	9.700	91	714478M1	47.208	ug/L	
90) 1,3,5-Trimethylbenzene	9.736	105	903188	47.309	ug/L	92
91) 1,2,3-Trichloropropane	9.731	75	195598	46.627	ug/L	99
92) trans-1,4-Dichloro-2-b...	9.757	53	88202	56.623	ug/L #	84
93) 4-Chlorotoluene	9.799	91	780812	48.902	ug/L	95
94) tert-Butylbenzene	9.920	119	767914	45.346	ug/L	96
97) 1,2,4-Trimethylbenzene	9.962	105	892924	47.619	ug/L	94
98) sec-Butylbenzene	10.025	105	1141119	46.880	ug/L	97
99) p-Isopropyltoluene	10.109	119	1008413	47.088	ug/L	96
100) 1,3-Dichlorobenzene	10.145	146	517991	44.477	ug/L	98
101) 1,4-Dichlorobenzene	10.198	146	522012	43.698	ug/L	98
102) p-Diethylbenzene	10.313	119	610082	47.221	ug/L	94
103) n-Butylbenzene	10.350	91	883856	48.908	ug/L	97
104) 1,2-Dichlorobenzene	10.439	146	492625	44.277	ug/L	98
105) 1,2,4,5-Tetramethylben...	10.769	119	950428	48.434	ug/L	98
106) 1,2-Dibromo-3-chloropr...	10.885	155	46987	40.674	ug/L	90
107) 1,3,5-Trichlorobenzene	10.911	180	405361	44.129	ug/L	93
108) Hexachlorobutadiene	11.257	225	207482	42.290	ug/L	96
109) 1,2,4-Trichlorobenzene	11.267	180	374780	44.270	ug/L	99
110) Naphthalene	11.446	128	841177	43.448	ug/L	100
111) 1,2,3-Trichlorobenzene	11.551	180	345960	43.067	ug/L	99

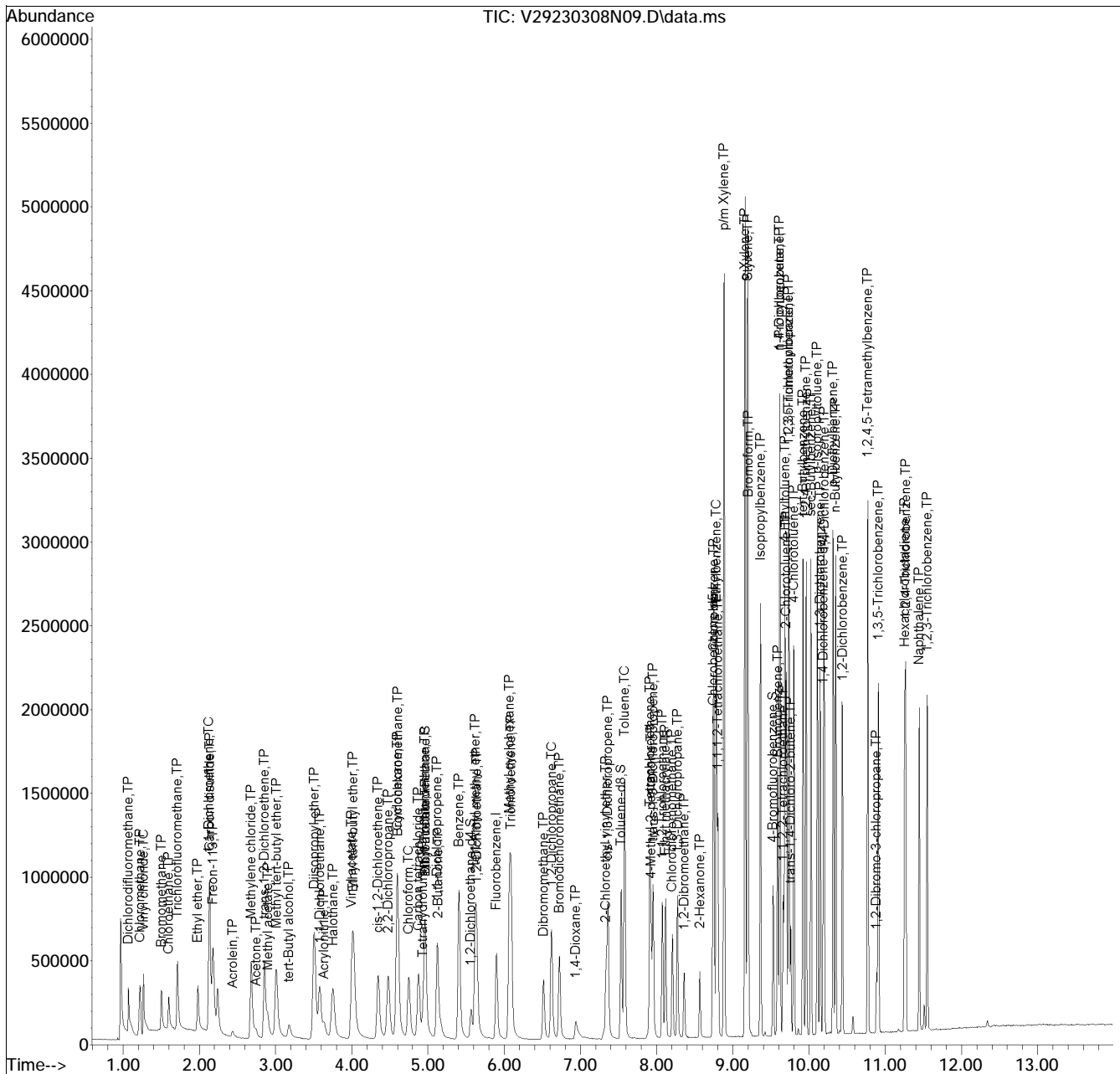
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N09.D
 Acq On : 08 Mar 2023 07:25 pm
 Operator : VOA129:AJK
 Sample : I8260STD40PPB
 Misc : WG1753306,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 09 14:03:13 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Dec 30 10:37:19 2022
 Response via : Initial Calibration

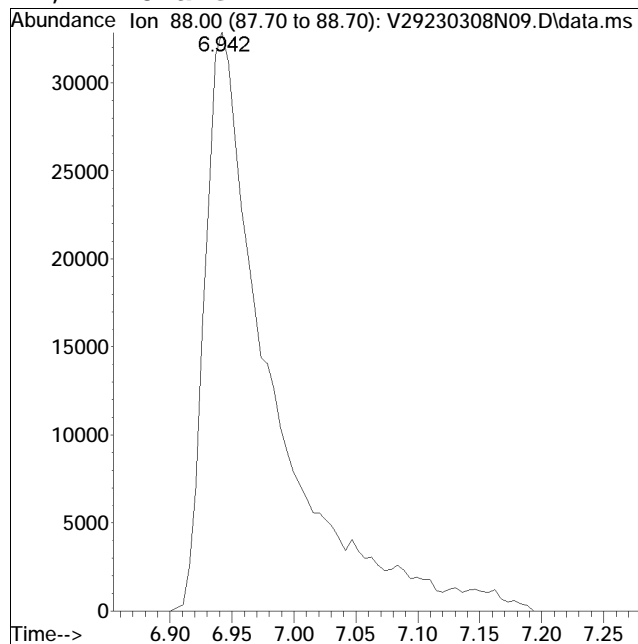
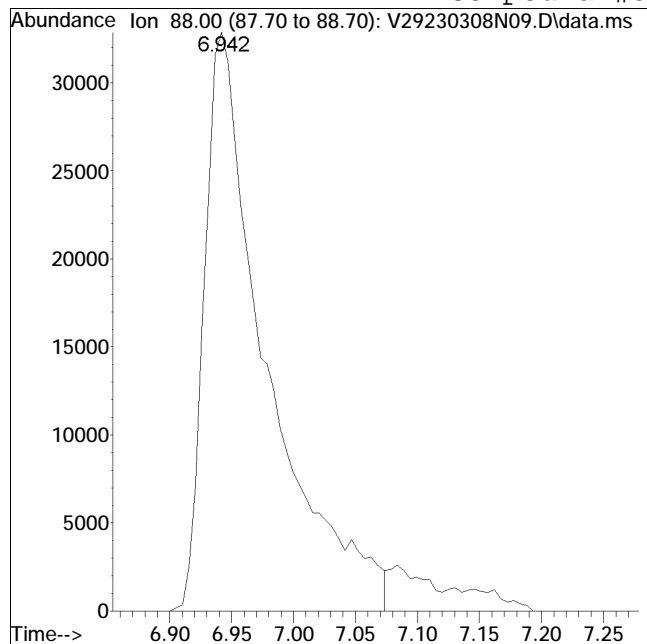
Sub List : 8260-CurveSoil - Megamix plus Diox8N-ICAL\V29230308N09.D



Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N09.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 7:25 pm Instrument : VOA 129
Sample : I8260STD40PPB Quant Date : 3/9/2023 1:02 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 113970

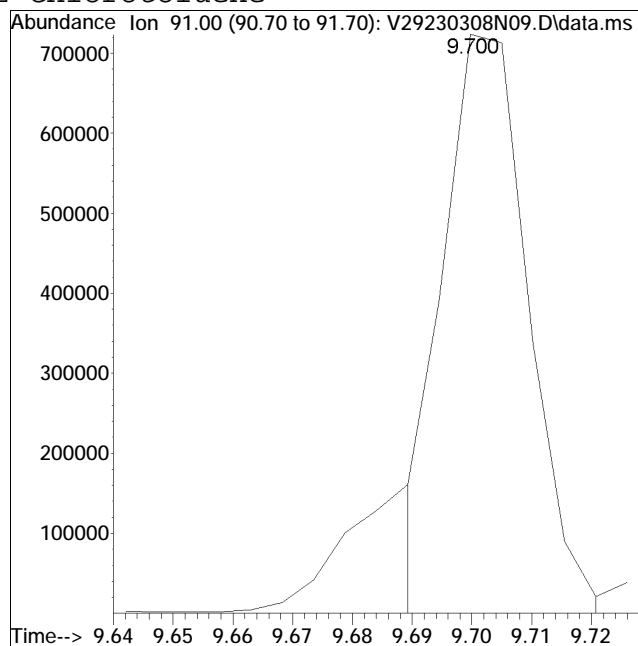
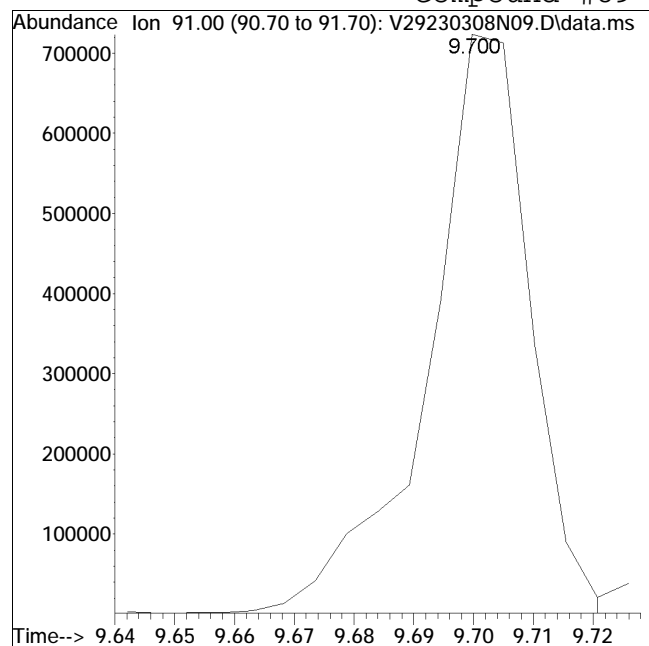
Manual Peak Response = 123052 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N09.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 7:25 pm Instrument : VOA 129
Sample : I8260STD40PPB Quant Date : 3/9/2023 1:02 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 851749

Manual Peak Response = 714478 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N10.D
 Acq On : 08 Mar 2023 07:46 pm
 Operator : VOA129:AJK
 Sample : I8260STD100PPB
 Misc : WG1753306,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 09 18:07:47 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.898	96	482817	20.000	ug/L	0.00
Standard Area 1 = 488686			Recovery =	98.80%		
59) Chlorobenzene-d5	8.740	117	361814	20.000	ug/L	0.00
Standard Area 1 = 366696			Recovery =	98.67%		
79) 1,4-Dichlorobenzene-d4	10.187	152	196112	20.000	ug/L	0.00
Standard Area 1 = 195456			Recovery =	100.34%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.970	113	125376	20.069	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	100.35%		
43) 1,2-Dichloroethane-d4	5.568	65	131343	19.172	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	95.86%		
60) Toluene-d8	7.534	98	470409	19.807	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.03%		
83) 4-Bromofluorobenzene	9.527	95	175166	19.936	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.68%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.070	85	552845	107.426	ug/L	99
3) Chloromethane	1.227	50	799028	108.449	ug/L	99
4) Vinyl chloride	1.269	62	678009	107.536	ug/L	97
5) Bromomethane	1.505	94	336130	112.405	ug/L	99
6) Chloroethane	1.599	64	372900	106.274	ug/L	99
7) Trichlorofluoromethane	1.714	101	801948	107.476	ug/L	96
8) Ethyl ether	1.982	74	245138	106.524	ug/L	90
10) 1,1-Dichloroethene	2.129	96	477850	110.088	ug/L	79
11) Carbon disulfide	2.139	76	1654618	105.768	ug/L	96
12) Freon-113	2.181	101	524100	106.199	ug/L	95
14) Acrolein	2.438	56	93618	117.592	ug/L	95
15) Methylene chloride	2.679	84	588284	107.456	ug/L	85
17) Acetone	2.747	43	146977	111.310	ug/L	99
18) trans-1,2-Dichloroethene	2.857	96	577088	109.358	ug/L	86
19) Methyl acetate	2.894	43	417081	109.556	ug/L #	95
20) Methyl tert-butyl ether	3.009	73	1448599	108.876	ug/L	99
21) tert-Butyl alcohol	3.177	59	419023	579.347	ug/L #	80
22) Diisopropyl ether	3.508	45	2344795	108.716	ug/L	97
23) 1,1-Dichloroethane	3.581	63	1100931	107.647	ug/L	99
24) Halothane	3.754	117	447840	105.048	ug/L	99
25) Acrylonitrile	3.639	53	206214	107.750	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N10.D
 Acq On : 08 Mar 2023 07:46 pm
 Operator : VOA129:AJK
 Sample : I8260STD100PPB
 Misc : WG1753306,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 09 18:07:47 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.016	59	2165647	108.218	ug/L	90
27) Vinyl acetate	4.000	43	1538635	114.954	ug/L	98
28) cis-1,2-Dichloroethene	4.346	96	625382	106.367	ug/L #	77
29) 2,2-Dichloropropane	4.483	77	881236	107.189	ug/L	99
30) Bromochloromethane	4.603	128	308914	104.280	ug/L #	67
31) Cyclohexane	4.598	56	1250351	105.084	ug/L	88
32) Chloroform	4.750	83	1030641	106.936	ug/L	98
33) Ethyl acetate	4.960	43	684765	109.597	ug/L #	95
34) Carbon tetrachloride	4.876	117	815690	107.570	ug/L	98
35) Tetrahydrofuran	4.923	42	232652	112.051	ug/L #	89
37) 1,1,1-Trichloroethane	4.960	97	882483	105.943	ug/L #	95
39) 2-Butanone	5.128	43	369261	115.144	ug/L #	73
40) 1,1-Dichloropropene	5.122	75	788277	106.506	ug/L	95
41) Benzene	5.406	78	2273460	106.673	ug/L	95
42) tert-Amyl methyl ether	5.621	73	1724171	108.253	ug/L	93
44) 1,2-Dichloroethane	5.642	62	817380	107.520	ug/L	99
47) Methyl cyclohexane	6.071	83	1077950	105.907	ug/L	87
48) Trichloroethene	6.092	95	632148	103.385	ug/L	94
50) Dibromomethane	6.512	93	364531	108.392	ug/L	92
51) 1,2-Dichloropropane	6.622	63	692405	106.297	ug/L #	93
53) 2-Chloroethyl vinyl ether	7.335	63	448909	109.036	ug/L	95
54) Bromodichloromethane	6.722	83	840788	107.353	ug/L	98
57) 1,4-Dioxane	6.942	88	318489	5239.419	ug/L #	84
58) cis-1,3-Dichloropropene	7.361	75	1021888	107.297	ug/L	95
61) Toluene	7.581	92	1438620	107.188	ug/L	96
62) 4-Methyl-2-pentanone	7.928	58	263278	106.690	ug/L #	92
63) Tetrachloroethene	7.912	166	654307	106.016	ug/L	88
65) trans-1,3-Dichloropropene	7.954	75	931436	108.408	ug/L	99
67) Ethyl methacrylate	8.116	69	762532	107.194	ug/L	100
68) 1,1,2-Trichloroethane	8.074	83	427536	108.420	ug/L	94
69) Chlorodibromomethane	8.205	129	648545	108.957	ug/L	96
70) 1,3-Dichloropropane	8.274	76	876909	107.576	ug/L	99
71) 1,2-Dibromoethane	8.363	107	525639	105.499	ug/L	99
72) 2-Hexanone	8.567	43	485525	107.813	ug/L	96
73) Chlorobenzene	8.751	112	1620488	105.278	ug/L	91
74) Ethylbenzene	8.782	91	2719697	104.828	ug/L	98
75) 1,1,1,2-Tetrachloroethane	8.803	131	620391	106.376	ug/L	95
76) p/m Xylene	8.887	106	2094533	207.800	ug/L	96
77) o Xylene	9.160	106	2049076	210.142	ug/L	90
78) Styrene	9.196	104	3416352	206.303	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N10.D
 Acq On : 08 Mar 2023 07:46 pm
 Operator : VOA129:AJK
 Sample : I8260STD100PPB
 Misc : WG1753306,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 09 18:07:47 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Bromoform	9.207	173	435678	107.787	ug/L	96
82) Isopropylbenzene	9.364	105	2687644	103.709	ug/L	96
84) Bromobenzene	9.590	156	706708	106.254	ug/L	98
85) n-Propylbenzene	9.616	91	3167683	101.668	ug/L	95
86) 1,4-Dichlorobutane	9.616	55	978979	104.055	ug/L	92
87) 1,1,2,2-Tetrachloroethane	9.663	83	649264	107.951	ug/L	99
88) 4-Ethyltoluene	9.684	105	2690252	102.736	ug/L	96
89) 2-Chlorotoluene	9.705	91	1878380M6	104.809	ug/L	
90) 1,3,5-Trimethylbenzene	9.736	105	2323155	102.543	ug/L	92
91) 1,2,3-Trichloropropane	9.731	75	505954	103.122	ug/L	98
92) trans-1,4-Dichloro-2-b...	9.757	53	225756	102.039	ug/L #	79
93) 4-Chlorotoluene	9.805	91	2013197	102.789	ug/L	94
94) tert-Butylbenzene	9.920	119	2011220	104.412	ug/L	96
97) 1,2,4-Trimethylbenzene	9.962	105	2315968	103.401	ug/L	94
98) sec-Butylbenzene	10.025	105	2931440	102.413	ug/L	96
99) p-Isopropyltoluene	10.109	119	2587108	102.278	ug/L	96
100) 1,3-Dichlorobenzene	10.145	146	1347580	103.714	ug/L	98
101) 1,4-Dichlorobenzene	10.198	146	1357249	103.653	ug/L	98
102) p-Diethylbenzene	10.318	119	1578153	103.125	ug/L	95
103) n-Butylbenzene	10.350	91	2281676	102.915	ug/L	97
104) 1,2-Dichlorobenzene	10.439	146	1271009	102.858	ug/L	98
105) 1,2,4,5-Tetramethylben...	10.769	119	2462461	103.289	ug/L	98
106) 1,2-Dibromo-3-chloropr...	10.890	155	127607	108.268	ug/L	91
107) 1,3,5-Trichlorobenzene	10.911	180	1047411	103.010	ug/L	93
108) Hexachlorobutadiene	11.252	225	547204	105.141	ug/L	95
109) 1,2,4-Trichlorobenzene	11.267	180	970108	103.193	ug/L	99
110) Naphthalene	11.446	128	2199349	104.235	ug/L	100
111) 1,2,3-Trichlorobenzene	11.551	180	894379	103.062	ug/L	100

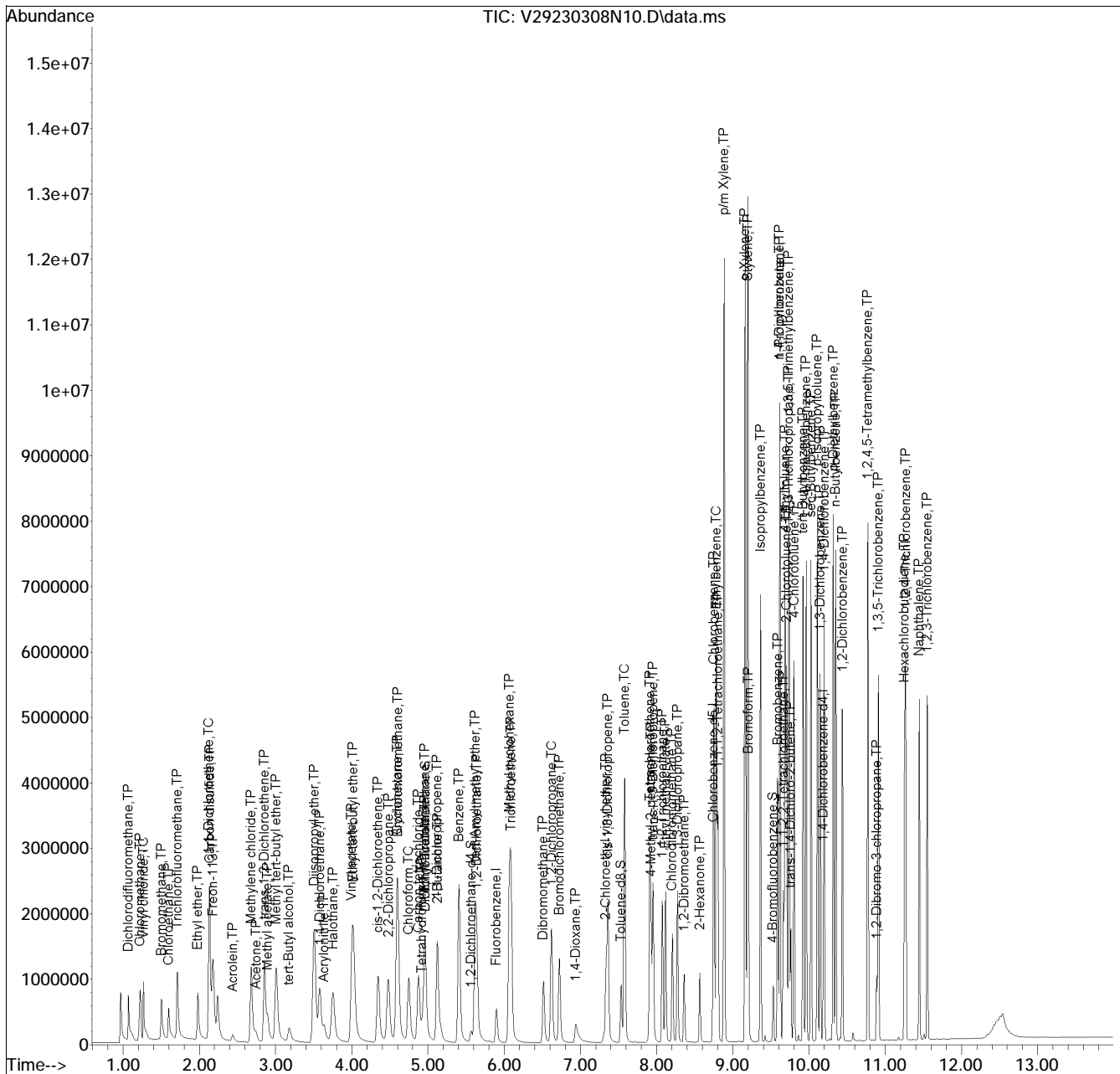
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N10.D
 Acq On : 08 Mar 2023 07:46 pm
 Operator : VOA129:AJK
 Sample : I8260STD100PPB
 Misc : WG1753306,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 09 18:07:47 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

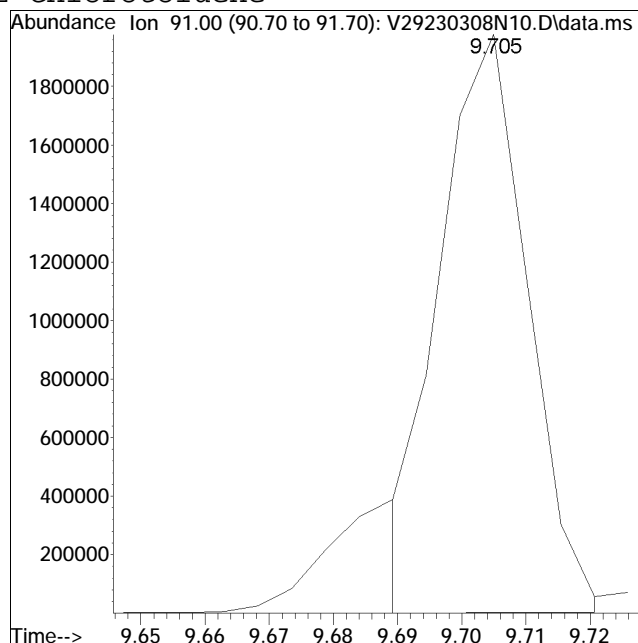
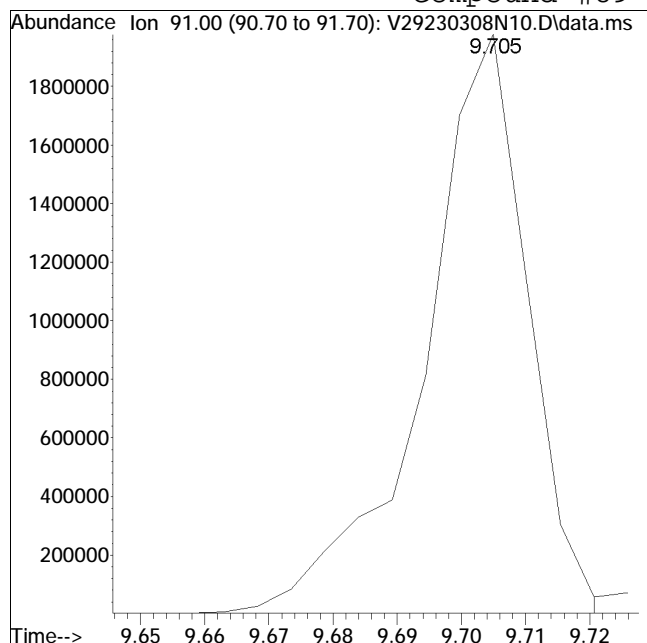
Sub List : 8260-CurveSoil - Megamix plus Diox8N-ICAL\V29230308N09.D



Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N10.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 7:46 pm Instrument : VOA 129
Sample : I8260STD100PPB Quant Date : 3/9/2023 1:05 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 2204582

Manual Peak Response = 1878380 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N11.D
 Acq On : 08 Mar 2023 08:07 pm
 Operator : VOA129:AJK
 Sample : I8260STD200PPB
 Misc : WG1753306,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 09 18:08:32 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	472528	20.000	ug/L	0.00
Standard Area 1 = 488686			Recovery =	96.69%		
59) Chlorobenzene-d5	8.740	117	359341	20.000	ug/L	0.00
Standard Area 1 = 366696			Recovery =	97.99%		
79) 1,4-Dichlorobenzene-d4	10.187	152	190446	20.000	ug/L	0.00
Standard Area 1 = 195456			Recovery =	97.44%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.970	113	122925	20.106	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	100.53%		
43) 1,2-Dichloroethane-d4	5.563	65	135014	20.137	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	100.69%		
60) Toluene-d8	7.534	98	469881	19.921	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.61%		
83) 4-Bromofluorobenzene	9.527	95	172702	20.240	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	101.20%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.070	85	1059069	210.274	ug/L	99
3) Chloromethane	1.227	50	1535242	212.909	ug/L	99
4) Vinyl chloride	1.269	62	1289231	208.932	ug/L	96
5) Bromomethane	1.505	94	680316	232.458	ug/L	99
6) Chloroethane	1.599	64	687686	200.254	ug/L	99
7) Trichlorofluoromethane	1.709	101	1533759	210.028	ug/L	97
8) Ethyl ether	1.982	74	487409	216.414	ug/L	88
10) 1,1-Dichloroethene	2.129	96	908722	213.912	ug/L	79
11) Carbon disulfide	2.134	76	3168096	206.923	ug/L	97
12) Freon-113	2.176	101	1014107	209.964	ug/L	94
14) Acrolein	2.438	56	198347	254.566	ug/L	89
15) Methylene chloride	2.679	84	1126973	210.335	ug/L	85
17) Acetone	2.742	43	299279	231.589	ug/L	96
18) trans-1,2-Dichloroethene	2.852	96	1110025	214.930	ug/L	85
19) Methyl acetate	2.894	43	828187	222.279	ug/L #	96
20) Methyl tert-butyl ether	3.010	73	2831819	217.472	ug/L	100
21) tert-Butyl alcohol	3.183	59	810224	1144.619	ug/L #	76
22) Diisopropyl ether	3.508	45	4511858	213.746	ug/L	97
23) 1,1-Dichloroethane	3.581	63	2105908	210.395	ug/L	99
24) Halothane	3.754	117	858352	205.724	ug/L	98
25) Acrylonitrile	3.639	53	400597	213.877	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N11.D
 Acq On : 08 Mar 2023 08:07 pm
 Operator : VOA129:AJK
 Sample : I8260STD200PPB
 Misc : WG1753306,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 09 18:08:32 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.016	59	4196656	214.275	ug/L	87
27) Vinyl acetate	4.000	43	3196847	244.042	ug/L	97
28) cis-1,2-Dichloroethene	4.347	96	1209264	210.155	ug/L #	77
29) 2,2-Dichloropropane	4.478	77	1739896	216.240	ug/L	98
30) Bromochloromethane	4.603	128	589080	203.185	ug/L #	67
31) Cyclohexane	4.598	56	2389703	205.213	ug/L	88
32) Chloroform	4.750	83	1981442	210.064	ug/L	97
33) Ethyl acetate	4.960	43	1330488	217.583	ug/L #	94
34) Carbon tetrachloride	4.876	117	1567301	211.190	ug/L	98
35) Tetrahydrofuran	4.923	42	443882	218.439	ug/L #	88
37) 1,1,1-Trichloroethane	4.960	97	1697641	208.241	ug/L #	96
39) 2-Butanone	5.128	43	615616	196.143	ug/L #	61
40) 1,1-Dichloropropene	5.123	75	1512896	208.862	ug/L	95
41) Benzene	5.406	78	4353426	208.714	ug/L	95
42) tert-Amyl methyl ether	5.621	73	3365454	215.903	ug/L	92
44) 1,2-Dichloroethane	5.642	62	1585580	213.113	ug/L	98
47) Methyl cyclohexane	6.072	83	2069085	207.712	ug/L	87
48) Trichloroethene	6.093	95	1197968	200.189	ug/L	94
50) Dibromomethane	6.512	93	709124	215.446	ug/L	91
51) 1,2-Dichloropropane	6.622	63	1331093	208.798	ug/L #	93
53) 2-Chloroethyl vinyl ether	7.335	63	880914	218.625	ug/L	98
54) Bromodichloromethane	6.722	83	1624439	211.926	ug/L	98
57) 1,4-Dioxane	6.942	88	651826M1	10956.588	ug/L	
58) cis-1,3-Dichloropropene	7.361	75	1978913	212.308	ug/L	95
61) Toluene	7.582	92	2766644	207.554	ug/L	96
62) 4-Methyl-2-pentanone	7.928	58	510994	208.498	ug/L #	93
63) Tetrachloroethene	7.912	166	1275763	208.132	ug/L	88
65) trans-1,3-Dichloropropene	7.954	75	1801855	211.158	ug/L	99
67) Ethyl methacrylate	8.116	69	1473937	208.627	ug/L	100
68) 1,1,2-Trichloroethane	8.074	83	827546	211.305	ug/L	94
69) Chlorodibromomethane	8.205	129	1267794	214.459	ug/L	96
70) 1,3-Dichloropropane	8.274	76	1695319	209.407	ug/L	99
71) 1,2-Dibromoethane	8.363	107	1033056	208.767	ug/L	99
72) 2-Hexanone	8.567	43	942570	210.742	ug/L	96
73) Chlorobenzene	8.751	112	3111920	203.563	ug/L	91
74) Ethylbenzene	8.782	91	5095255	197.743	ug/L	97
75) 1,1,1,2-Tetrachloroethane	8.803	131	1200059	207.185	ug/L	95
76) p/m Xylene	8.887	106	3975254	397.102	ug/L	91
77) o Xylene	9.160	106	3855424	398.113	ug/L	86
78) Styrene	9.196	104	6307877	383.535	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N11.D
 Acq On : 08 Mar 2023 08:07 pm
 Operator : VOA129:AJK
 Sample : I8260STD200PPB
 Misc : WG1753306,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 09 18:08:32 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Bromoform	9.207	173	853061	217.326	ug/L	96
82) Isopropylbenzene	9.364	105	5084263	202.026	ug/L	95
84) Bromobenzene	9.590	156	1366946	211.635	ug/L	98
85) n-Propylbenzene	9.616	91	5918326	195.602	ug/L	94
86) 1,4-Dichlorobutane	9.616	55	1885270	206.347	ug/L	92
87) 1,1,2,2-Tetrachloroethane	9.663	83	1289741	220.821	ug/L	99
88) 4-Ethyltoluene	9.684	105	5084846	199.959	ug/L	95
89) 2-Chlorotoluene	9.705	91	3547858M6	203.852	ug/L	
90) 1,3,5-Trimethylbenzene	9.736	105	4402903	200.124	ug/L	90
91) 1,2,3-Trichloropropane	9.731	75	998892	209.648	ug/L	99
92) trans-1,4-Dichloro-2-b...	9.757	53	440720	205.126	ug/L #	79
93) 4-Chlorotoluene	9.805	91	3826525	201.185	ug/L	93
94) tert-Butylbenzene	9.920	119	3835475	205.042	ug/L	95
97) 1,2,4-Trimethylbenzene	9.962	105	4401984	202.382	ug/L	92
98) sec-Butylbenzene	10.025	105	5513036	198.334	ug/L	95
99) p-Isopropyltoluene	10.109	119	4863824	198.005	ug/L	96
100) 1,3-Dichlorobenzene	10.145	146	2587593	205.074	ug/L	99
101) 1,4-Dichlorobenzene	10.198	146	2601246	204.568	ug/L	98
102) p-Diethylbenzene	10.318	119	3021873	203.341	ug/L	94
103) n-Butylbenzene	10.350	91	4255292	197.645	ug/L	96
104) 1,2-Dichlorobenzene	10.439	146	2455143	204.596	ug/L	98
105) 1,2,4,5-Tetramethylben...	10.769	119	4693403	202.724	ug/L	97
106) 1,2-Dibromo-3-chloropr...	10.890	155	250291	218.678	ug/L	92
107) 1,3,5-Trichlorobenzene	10.911	180	1992374	201.774	ug/L	93
108) Hexachlorobutadiene	11.252	225	1018482	201.516	ug/L	96
109) 1,2,4-Trichlorobenzene	11.267	180	1871511	205.000	ug/L	99
110) Naphthalene	11.446	128	4178471	203.923	ug/L	100
111) 1,2,3-Trichlorobenzene	11.551	180	1710161	202.931	ug/L	100

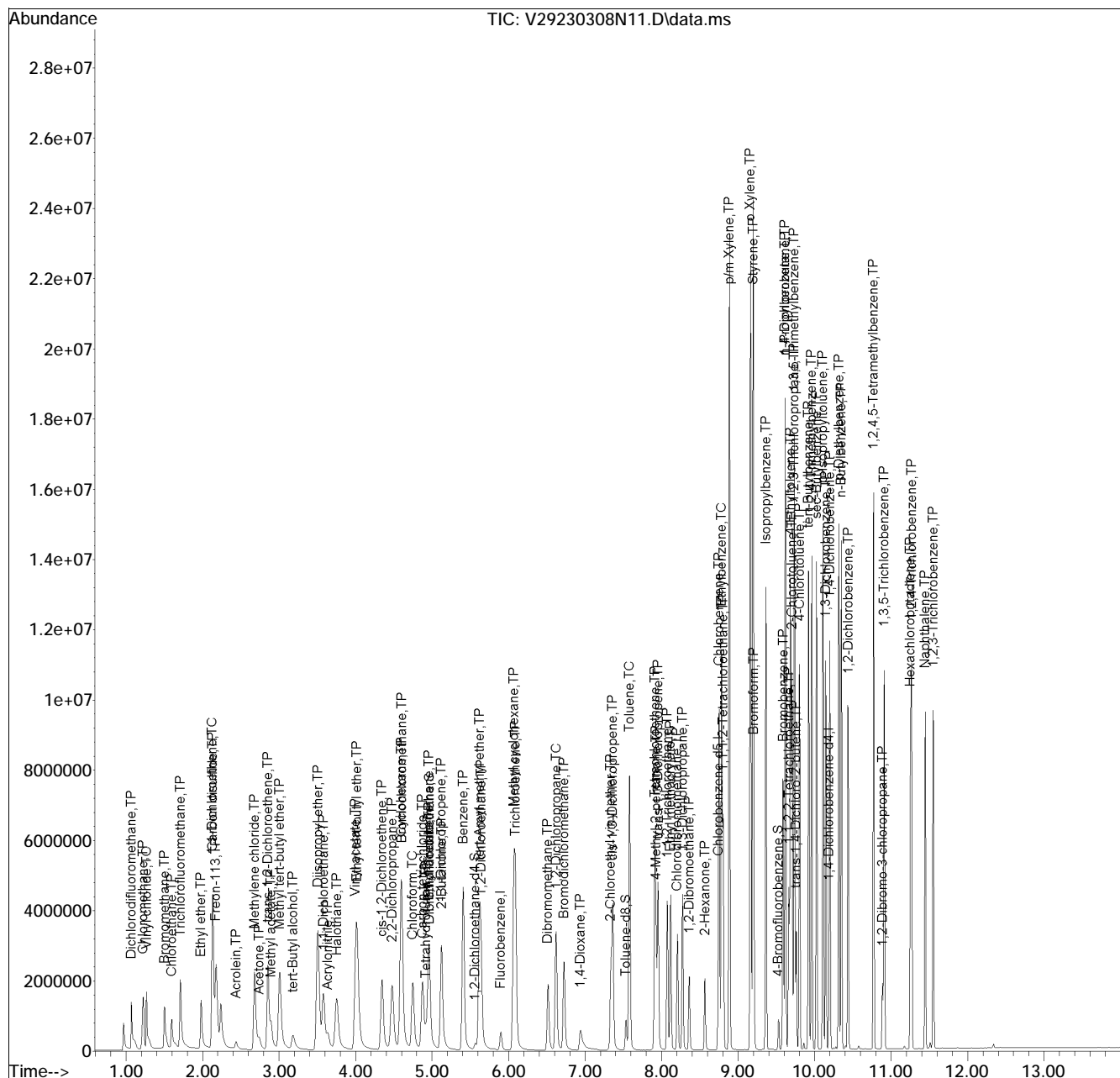
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
Data File : V29230308N11.D
Acq On : 08 Mar 2023 08:07 pm
Operator : VOA129:AJK
Sample : I8260STD200PPB
Misc : WG1753306,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 09 18:08:32 2023
Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 13:04:01 2023
Response via : Initial Calibration

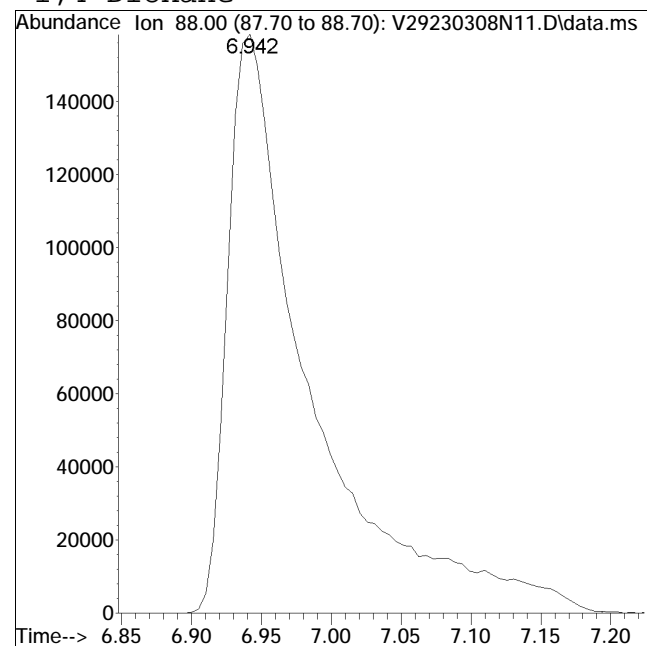
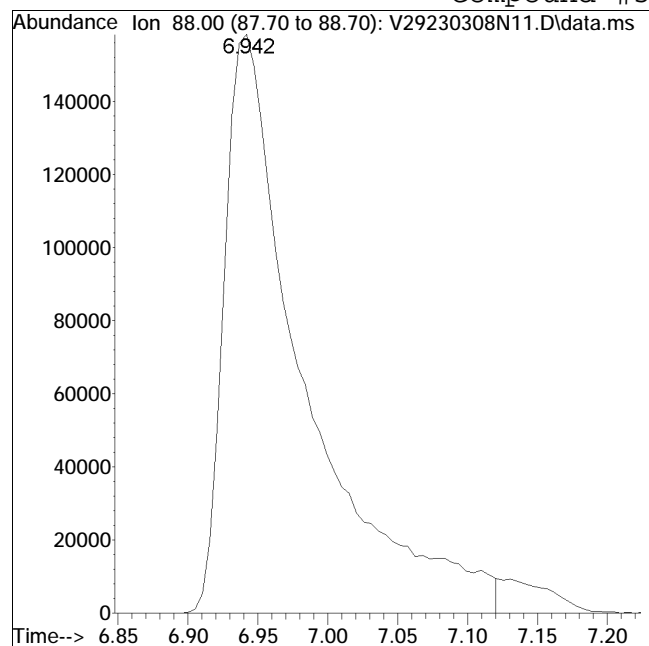
Sub List : 8260-CurveSoil - Megamix plus Diox8N-ICAL\V29230308N09.D



Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N11.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 8:07 pm Instrument : VOA 129
Sample : I8260STD200PPB Quant Date : 3/9/2023 1:05 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 628737

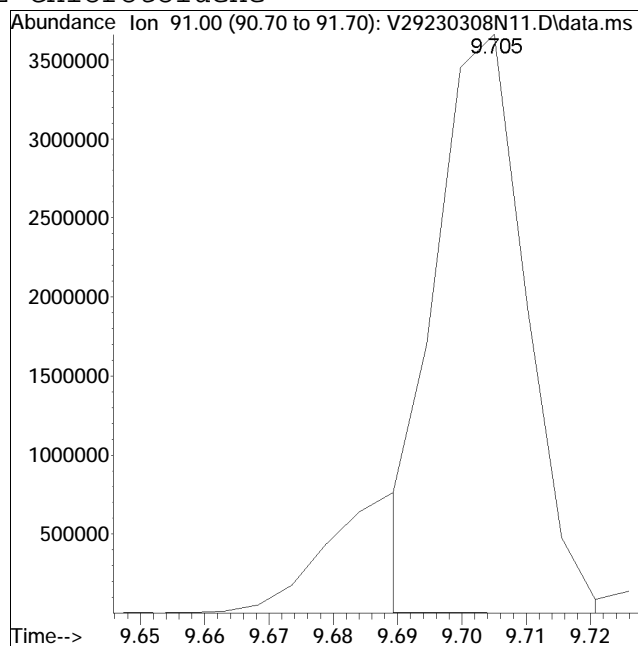
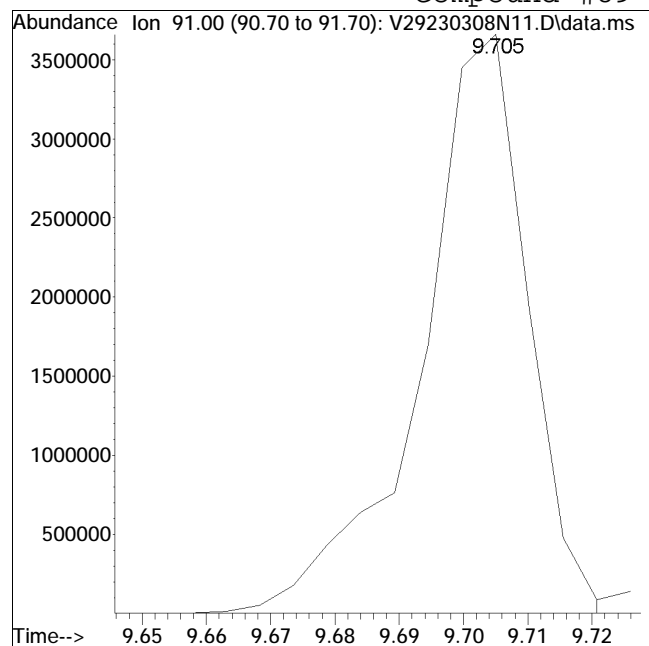
Manual Peak Response = 651826 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N11.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 8:07 pm Instrument : VOA 129
Sample : I8260STD200PPB Quant Date : 3/9/2023 1:05 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 4198889

Manual Peak Response = 3547858 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N12.D
 Acq On : 08 Mar 2023 08:28 pm
 Operator : VOA129:AJK
 Sample : I8260STD300PPB
 Misc : WG1753306,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 09 18:09:16 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.898	96	478714	20.000	ug/L	0.00
Standard Area 1 = 488686			Recovery =	97.96%		
59) Chlorobenzene-d5	8.740	117	358494	20.000	ug/L	0.00
Standard Area 1 = 366696			Recovery =	97.76%		
79) 1,4-Dichlorobenzene-d4	10.193	152	188580	20.000	ug/L	0.00
Standard Area 1 = 195456			Recovery =	96.48%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.970	113	120612	19.472	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	97.36%		
43) 1,2-Dichloroethane-d4	5.568	65	133551	19.662	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.31%		
60) Toluene-d8	7.534	98	472274	20.070	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	100.35%		
83) 4-Bromofluorobenzene	9.527	95	172766	20.448	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	102.24%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.069	85	1628835	319.219	ug/L	99
3) Chloromethane	1.222	50	2375469	325.176	ug/L	99
4) Vinyl chloride	1.269	62	2007607	321.148	ug/L	97
5) Bromomethane	1.505	94	1097181	370.052	ug/L	99
6) Chloroethane	1.594	64	972542	279.544	ug/L	99
7) Trichlorofluoromethane	1.709	101	2350644	317.730	ug/L	97
8) Ethyl ether	1.982	74	741241	324.864	ug/L	87
10) 1,1-Dichloroethene	2.129	96	1400200	325.346	ug/L	79
11) Carbon disulfide	2.134	76	4838105	311.916	ug/L	96
12) Freon-113	2.176	101	1555275	317.848	ug/L	93
14) Acrolein	2.438	56	294774	373.436	ug/L	93
15) Methylene chloride	2.679	84	1727776	318.301	ug/L	84
17) Acetone	2.742	43	437807	334.407	ug/L	93
18) trans-1,2-Dichloroethene	2.852	96	1685648	322.168	ug/L	86
19) Methyl acetate	2.894	43	1236224	327.505	ug/L #	95
20) Methyl tert-butyl ether	3.009	73	4274624	324.031	ug/L	100
21) tert-Butyl alcohol	3.182	59	1245592	1736.932	ug/L #	70
22) Diisopropyl ether	3.508	45	6800336	317.998	ug/L	97
23) 1,1-Dichloroethane	3.581	63	3197929	315.368	ug/L	99
24) Halothane	3.754	117	1317101	311.594	ug/L	98
25) Acrylonitrile	3.639	53	617860	325.610	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N12.D
 Acq On : 08 Mar 2023 08:28 pm
 Operator : VOA129:AJK
 Sample : I8260STD300PPB
 Misc : WG1753306,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 09 18:09:16 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.016	59	6299928	317.508	ug/L	90
27) Vinyl acetate	4.000	43	4412566	332.495	ug/L	97
28) cis-1,2-Dichloroethene	4.346	96	1895256	325.115	ug/L #	74
29) 2,2-Dichloropropane	4.478	77	2641520	324.054	ug/L	98
30) Bromochloromethane	4.603	128	875261	297.993	ug/L #	67
31) Cyclohexane	4.598	56	3643813	308.865	ug/L	87
32) Chloroform	4.750	83	3015509	315.560	ug/L	97
33) Ethyl acetate	4.960	43	1987402	320.812	ug/L #	95
34) Carbon tetrachloride	4.876	117	2394963	318.545	ug/L	98
35) Tetrahydrofuran	4.918	42	688379	334.381	ug/L #	85
37) 1,1,1-Trichloroethane	4.960	97	2613478	316.440	ug/L #	96
39) 2-Butanone	5.128	43	1013094	318.614	ug/L #	66
40) 1,1-Dichloropropene	5.122	75	2322333	316.466	ug/L	95
41) Benzene	5.406	78	6573813	311.092	ug/L	96
42) tert-Amyl methyl ether	5.621	73	5065874	320.790	ug/L	93
44) 1,2-Dichloroethane	5.641	62	2388589	316.895	ug/L	98
47) Methyl cyclohexane	6.071	83	3191870	316.286	ug/L	87
48) Trichloroethene	6.092	95	1852025	305.487	ug/L	94
50) Dibromomethane	6.517	93	1075192	322.443	ug/L	91
51) 1,2-Dichloropropane	6.622	63	2021321	312.971	ug/L #	93
53) 2-Chloroethyl vinyl ether	7.335	63	1339263	328.083	ug/L	97
54) Bromodichloromethane	6.722	83	2467466	317.749	ug/L	98
57) 1,4-Dioxane	6.937	88	979315M1	16248.658	ug/L	
58) cis-1,3-Dichloropropene	7.361	75	2996515	317.328	ug/L	95
61) Toluene	7.581	92	4205252	316.224	ug/L	95
62) 4-Methyl-2-pentanone	7.927	58	783565	320.469	ug/L #	95
63) Tetrachloroethene	7.912	166	1953522	319.457	ug/L	88
65) trans-1,3-Dichloropropene	7.954	75	2720996	319.625	ug/L	99
67) Ethyl methacrylate	8.116	69	2238098	317.538	ug/L	100
68) 1,1,2-Trichloroethane	8.074	83	1259218	322.287	ug/L	95
69) Chlorodibromomethane	8.205	129	1941602	329.215	ug/L	96
70) 1,3-Dichloropropane	8.274	76	2557452	316.645	ug/L	99
71) 1,2-Dibromoethane	8.363	107	1557385	315.471	ug/L	98
72) 2-Hexanone	8.567	43	1426079	319.599	ug/L	96
73) Chlorobenzene	8.751	112	4688533	307.420	ug/L	92
74) Ethylbenzene	8.787	91	7568191	294.410	ug/L	95
75) 1,1,1,2-Tetrachloroethane	8.803	131	1836081	317.740	ug/L	95
76) p/m Xylene	8.887	106	5857923	586.552	ug/L	80
77) o Xylene	9.165	106	5762379	596.432	ug/L #	71
78) Styrene	9.196	104	8839032	538.705	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N12.D
 Acq On : 08 Mar 2023 08:28 pm
 Operator : VOA129:AJK
 Sample : I8260STD300PPB
 Misc : WG1753306,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 09 18:09:16 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Bromoform	9.207	173	1293676	332.838	ug/L	96
82) Isopropylbenzene	9.364	105	7475920	299.999	ug/L	93
84) Bromobenzene	9.590	156	2078534	324.989	ug/L	98
85) n-Propylbenzene	9.616	91	8423537	281.155	ug/L	91
86) 1,4-Dichlorobutane	9.616	55	2814709	311.124	ug/L	92
87) 1,1,2,2-Tetrachloroethane	9.663	83	1925794	332.985	ug/L	100
88) 4-Ethyltoluene	9.684	105	7430317	295.084	ug/L	93
89) 2-Chlorotoluene	9.705	91	5353064M6	310.618	ug/L	
90) 1,3,5-Trimethylbenzene	9.736	105	6491842	297.991	ug/L	89
91) 1,2,3-Trichloropropane	9.731	75	1492645	316.377	ug/L	98
92) trans-1,4-Dichloro-2-b...	9.763	53	674139	316.872	ug/L #	79
93) 4-Chlorotoluene	9.805	91	5689624	302.100	ug/L	92
94) tert-Butylbenzene	9.920	119	5689040	307.142	ug/L	94
97) 1,2,4-Trimethylbenzene	9.962	105	6458803	299.882	ug/L	91
98) sec-Butylbenzene	10.025	105	7959031	289.163	ug/L	93
99) p-Isopropyltoluene	10.109	119	7024105	288.779	ug/L	96
100) 1,3-Dichlorobenzene	10.145	146	3843089	307.590	ug/L	99
101) 1,4-Dichlorobenzene	10.198	146	3854758	306.147	ug/L	98
102) p-Diethylbenzene	10.318	119	4493020	305.326	ug/L	95
103) n-Butylbenzene	10.350	91	6191054	290.400	ug/L	94
104) 1,2-Dichlorobenzene	10.439	146	3652568	307.394	ug/L	99
105) 1,2,4,5-Tetramethylben...	10.769	119	6834843	298.142	ug/L	96
106) 1,2-Dibromo-3-chloropr...	10.890	155	373183	329.274	ug/L	91
107) 1,3,5-Trichlorobenzene	10.911	180	2995301	306.346	ug/L	94
108) Hexachlorobutadiene	11.257	225	1531265	305.973	ug/L	96
109) 1,2,4-Trichlorobenzene	11.267	180	2811228	310.980	ug/L	99
110) Naphthalene	11.446	128	6146368	302.932	ug/L	100
111) 1,2,3-Trichlorobenzene	11.550	180	2602111	311.827	ug/L	100

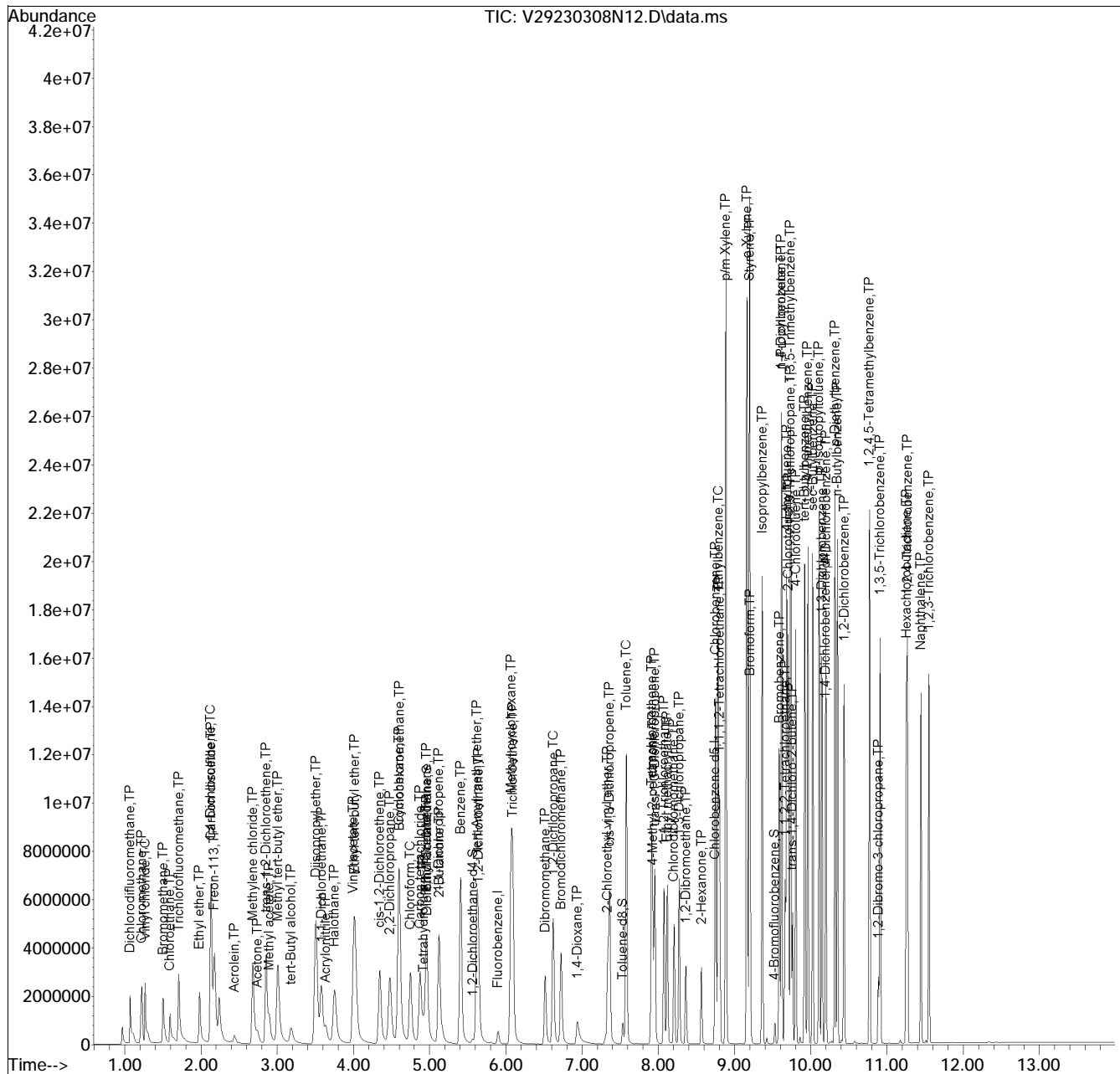
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N12.D
 Acq On : 08 Mar 2023 08:28 pm
 Operator : VOA129:AJK
 Sample : I8260STD300PPB
 Misc : WG1753306,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 09 18:09:16 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

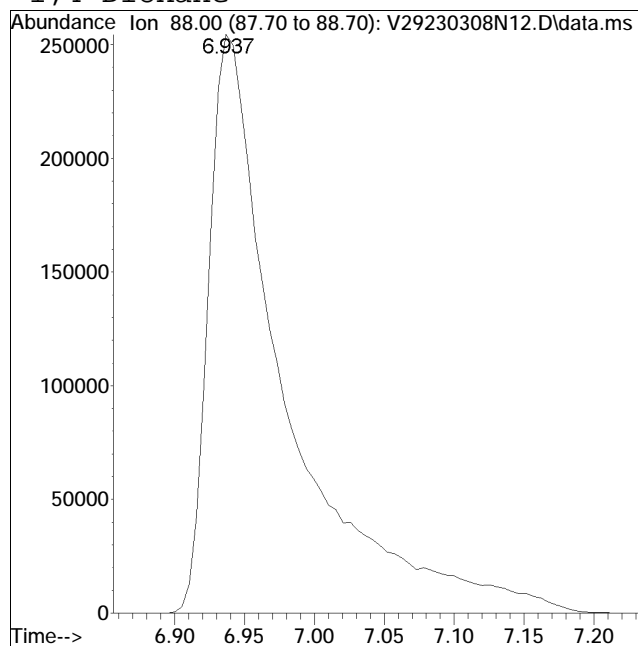
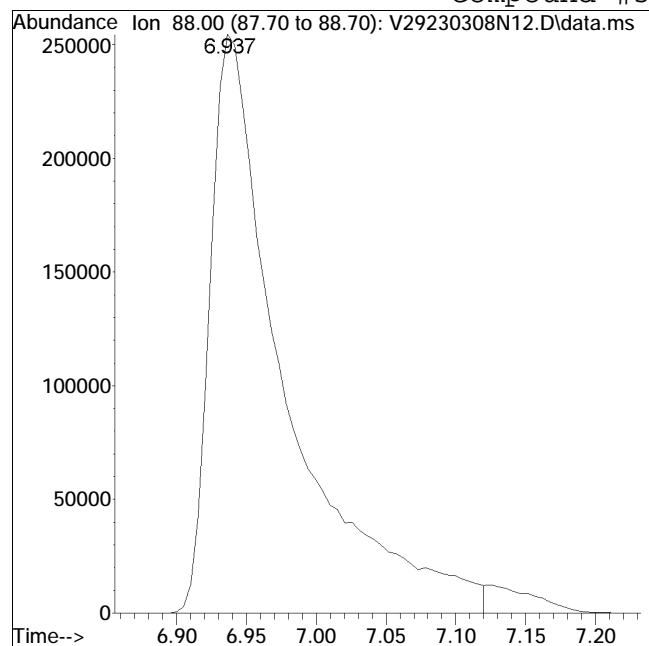
Sub List : 8260-CurveSoil - Megamix plus Diox8N-ICAL\V29230308N09.D



Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N12.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 8:28 pm Instrument : VOA 129
Sample : I8260STD300PPB Quant Date : 3/9/2023 1:05 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 950961

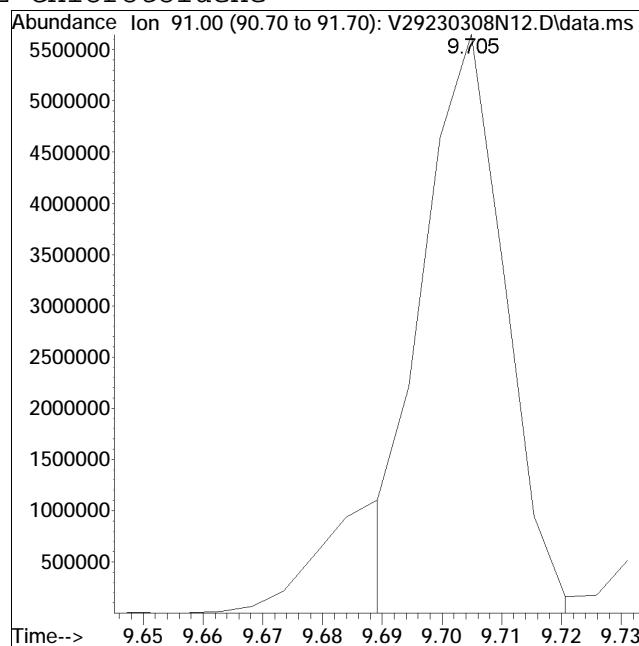
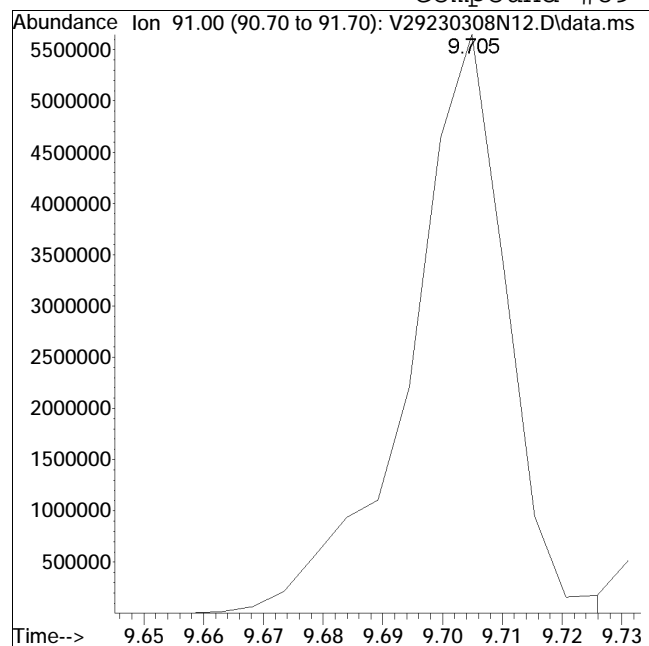
Manual Peak Response = 979315 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N12.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 8:28 pm Instrument : VOA 129
Sample : I8260STD300PPB Quant Date : 3/9/2023 1:05 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 6313739

Manual Peak Response = 5353064 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N20.D
 Acq On : 08 Mar 2023 11:14 pm
 Operator : VOA129:AJK
 Sample : I8260STD0.5PPB
 Misc : WG1753306,ICAL
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 09 15:27:19 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-L0_OH - Level 0.5ppb for Soils OH

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	5.898	96	448884	20.000	ug/L	0.00	
Standard Area 1 = 488686			Recovery =	91.86%			
59) Chlorobenzene-d5	8.740	117	345940	20.000	ug/L	0.00	
Standard Area 1 = 366696			Recovery =	94.34%			
79) 1,4-Dichlorobenzene-d4	10.187	152	191123	20.000	ug/L	0.00	
Standard Area 1 = 195456			Recovery =	97.78%			
System Monitoring Compounds							
36) Dibromofluoromethane	4.970	113	123419	21.250	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	106.25%			
43) 1,2-Dichloroethane-d4	5.563	65	139955	21.974	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	109.87%			
60) Toluene-d8	7.534	98	449961	19.815	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.08%			
83) 4-Bromofluorobenzene	9.527	95	169369	19.779	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.89%			
Target Compounds							
							Qvalue
37) 1,1,1-Trichloroethane	4.955	97	3192	0.412	ug/L #		56
40) 1,1-Dichloropropene	5.117	75	2069	0.301	ug/L #		76
41) Benzene	5.406	78	7666	0.387	ug/L		96
48) Trichloroethene	6.098	95	2392M4	0.421	ug/L		
54) Bromodichloromethane	6.727	83	2705M4	0.371	ug/L		
58) cis-1,3-Dichloropropene	7.361	75	3392	0.383	ug/L #		72
63) Tetrachloroethene	7.917	166	1972	0.334	ug/L		89
69) Chlorodibromomethane	8.205	129	2182	0.383	ug/L		98
71) 1,2-Dibromoethane	8.363	107	2183	0.458	ug/L		81
73) Chlorobenzene	8.751	112	6353	0.432	ug/L #		65
75) 1,1,1,2-Tetrachloroethane	8.803	131	2099	0.376	ug/L #		61
76) p/m Xylene	8.887	106	8259	0.857	ug/L		91
77) o Xylene	9.165	106	7725	0.829	ug/L		84
78) Styrene	9.196	104	13442	0.849	ug/L		94
87) 1,1,2,2-Tetrachloroethane	9.663	83	2528	0.431	ug/L		95

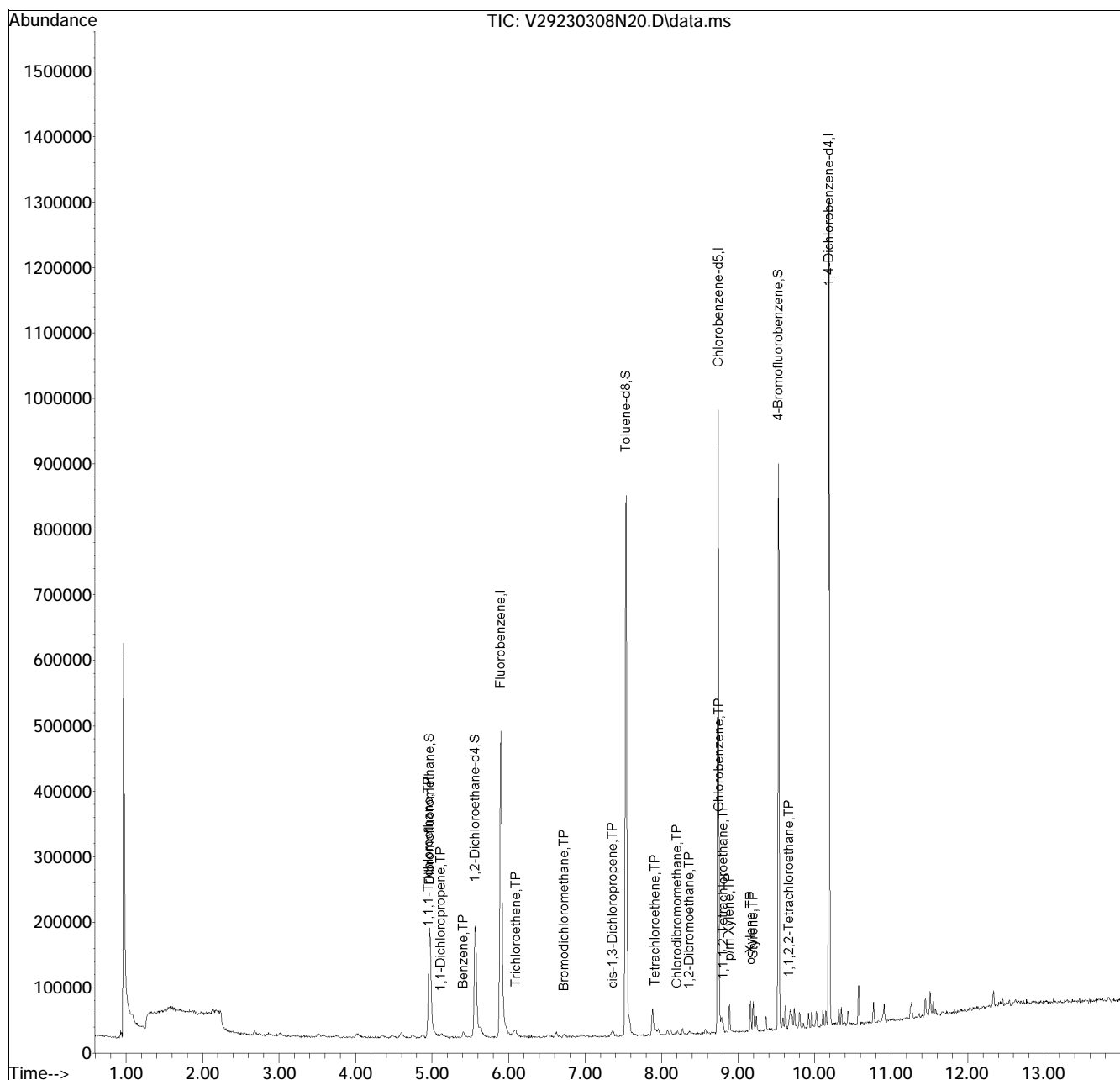
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N20.D
 Acq On : 08 Mar 2023 11:14 pm
 Operator : VOA129:AJK
 Sample : I8260STD0.5PPB
 Misc : WG1753306,ICAL
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 09 15:27:19 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

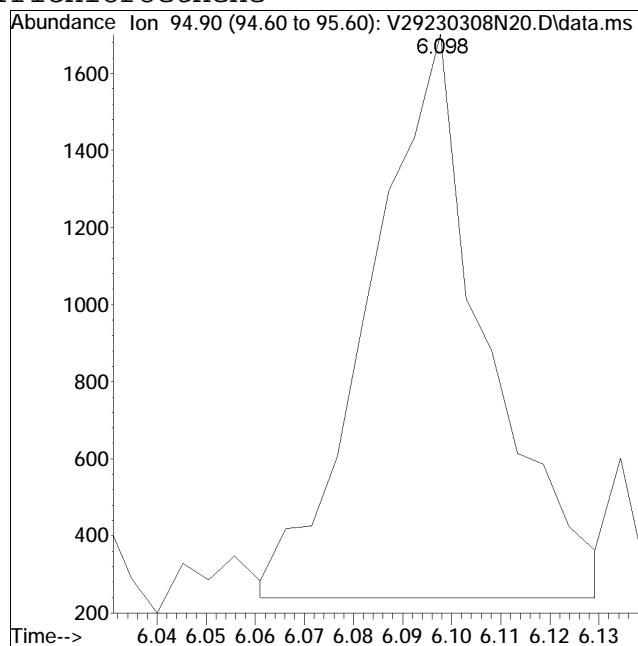
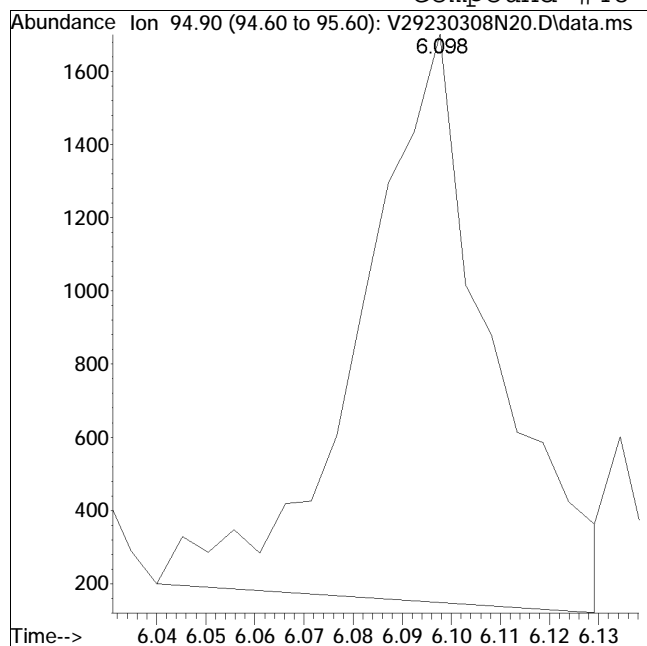
Sub List : 8260-L0_OH - Level 0.5ppb for Soils OHCAL\V29230308N09.D•



Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N20.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 11:14 pm Instrument : VOA 129
Sample : I8260STD0.5PPB Quant Date : 3/9/2023 1:54 pm

Compound #48: Trichloroethene



Original Peak Response = 2908

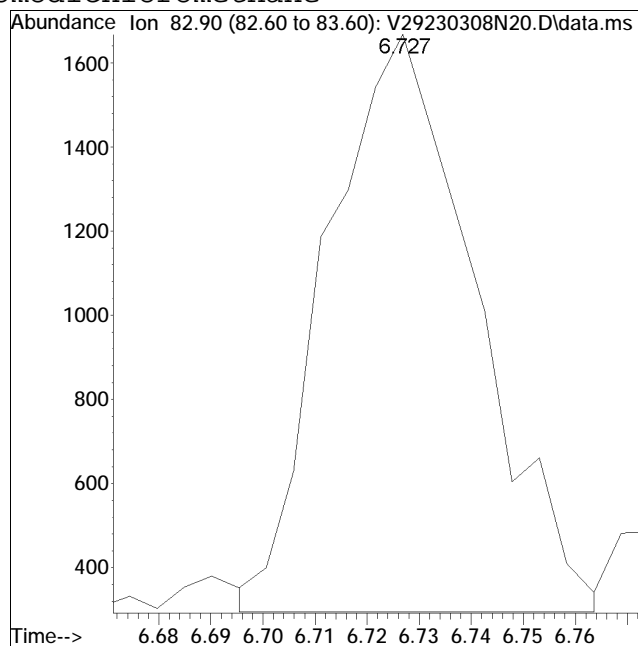
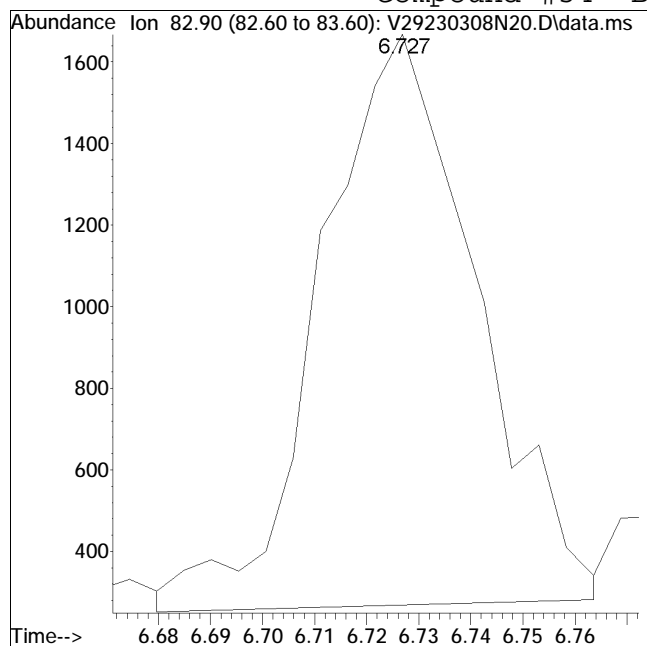
Manual Peak Response = 2392 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N20.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 11:14 pm Instrument : VOA 129
Sample : I8260STD0.5PPB Quant Date : 3/9/2023 1:54 pm

Compound #54: Bromodichloromethane



Original Peak Response = 2909

Manual Peak Response = 2705 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N21.D
 Acq On : 08 Mar 2023 11:35 pm
 Operator : VOA129:AJK
 Sample : I8260STD1PPB
 Misc : WG1753306,ICAL
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 09 18:10:23 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	5.898	96	457091	20.000	ug/L	0.00	
Standard Area 1 = 488686			Recovery =	93.53%			
59) Chlorobenzene-d5	8.740	117	351292	20.000	ug/L	0.00	
Standard Area 1 = 366696			Recovery =	95.80%			
79) 1,4-Dichlorobenzene-d4	10.187	152	195315	20.000	ug/L	0.00	
Standard Area 1 = 195456			Recovery =	99.93%			
System Monitoring Compounds							
36) Dibromofluoromethane	4.970	113	124677	21.081	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	105.40%			
43) 1,2-Dichloroethane-d4	5.568	65	145308	22.405	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	112.02%			
60) Toluene-d8	7.534	98	456218	19.785	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.92%			
83) 4-Bromofluorobenzene	9.526	95	176796	20.203	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery =	101.01%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.069	85	2453	0.503	ug/L	#	89
3) Chloromethane	1.221	50	5672	0.813	ug/L		90
4) Vinyl chloride	1.269	62	3741	0.627	ug/L		69
5) Bromomethane	1.504	94	3347	1.182	ug/L		96
6) Chloroethane	1.604	64	3008	0.906	ug/L		64
7) Trichlorofluoromethane	1.714	101	3988M3	0.565	ug/L		
8) Ethyl ether	1.987	74	2300	1.056	ug/L	#	63
10) 1,1-Dichloroethene	2.128	96	2535	0.617	ug/L	#	93
11) Carbon disulfide	2.139	76	11142	0.752	ug/L	#	76
12) Freon-113	2.186	101	2939	0.629	ug/L		94
14) Acrolein	0.000		0	N.D.	d		
15) Methylene chloride	2.679	84	4955	0.956	ug/L		86
17) Acetone	0.000		0	N.D.	d		
18) trans-1,2-Dichloroethene	2.857	96	4021	0.805	ug/L		75
19) Methyl acetate	2.899	43	3332	0.924	ug/L	#	80
20) Methyl tert-butyl ether	3.020	73	10994	0.873	ug/L	#	87
21) tert-Butyl alcohol	3.182	59	4808M1	7.022	ug/L		
22) Diisopropyl ether	3.513	45	14230	0.697	ug/L	#	90
23) 1,1-Dichloroethane	3.586	63	7135M1	0.737	ug/L		
24) Halothane	3.754	117	3020	0.748	ug/L		85
25) Acrylonitrile	0.000		0	N.D.	d		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N21.D
 Acq On : 08 Mar 2023 11:35 pm
 Operator : VOA129:AJK
 Sample : I8260STD1PPB
 Misc : WG1753306,ICAL
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 09 18:10:23 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.026	59	14154M1	0.747	ug/L	
27) Vinyl acetate	4.011	43	9246	0.730	ug/L	98
28) cis-1,2-Dichloroethene	4.351	96	4426	0.795	ug/L #	75
29) 2,2-Dichloropropane	4.477	77	5931	0.762	ug/L	93
30) Bromochloromethane	4.598	128	2191	0.781	ug/L #	70
31) Cyclohexane	4.603	56	6778	0.602	ug/L	74
32) Chloroform	4.745	83	6116	0.670	ug/L	94
33) Ethyl acetate	4.970	43	5189	0.877	ug/L #	76
34) Carbon tetrachloride	4.871	117	5051	0.704	ug/L	97
35) Tetrahydrofuran	0.000		0	N.D.	d	
37) 1,1,1-Trichloroethane	4.960	97	5233	0.664	ug/L #	56
39) 2-Butanone	0.000		0	N.D.	d	
40) 1,1-Dichloropropene	5.127	75	4912	0.701	ug/L	86
41) Benzene	5.411	78	13440	0.666	ug/L	92
42) tert-Amyl methyl ether	5.631	73	12115	0.803	ug/L	95
44) 1,2-Dichloroethane	5.641	62	6470	0.899	ug/L	73
47) Methyl cyclohexane	6.071	83	5491	0.570	ug/L	96
48) Trichloroethene	6.097	95	3819	0.660	ug/L	86
50) Dibromomethane	6.517	93	2836	0.891	ug/L #	82
51) 1,2-Dichloropropane	6.622	63	4998	0.810	ug/L #	87
53) 2-Chloroethyl vinyl ether	7.340	63	3399	0.872	ug/L #	95
54) Bromodichloromethane	6.727	83	5118	0.690	ug/L #	99
57) 1,4-Dioxane	6.968	88	2743M1	47.664	ug/L	
58) cis-1,3-Dichloropropene	7.366	75	6791	0.753	ug/L	94
61) Toluene	7.581	92	9830	0.754	ug/L	93
62) 4-Methyl-2-pentanone	7.932	58	2493	1.041	ug/L	100
63) Tetrachloroethene	7.917	166	3511	0.586	ug/L	92
65) trans-1,3-Dichloropropene	7.953	75	6213	0.745	ug/L	92
67) Ethyl methacrylate	8.121	69	5822	0.843	ug/L	97
68) 1,1,2-Trichloroethane	8.074	83	2918	0.762	ug/L #	78
69) Chlorodibromomethane	8.210	129	4229	0.732	ug/L	94
70) 1,3-Dichloropropane	8.273	76	6018	0.760	ug/L #	79
71) 1,2-Dibromoethane	8.362	107	4114	0.850	ug/L	91
72) 2-Hexanone	8.572	43	5274	1.206	ug/L #	85
73) Chlorobenzene	8.750	112	11604	0.776	ug/L #	84
74) Ethylbenzene	8.787	91	17819	0.707	ug/L	96
75) 1,1,1,2-Tetrachloroethane	8.803	131	3859	0.682	ug/L #	61
76) p/m Xylene	8.887	106	13956	1.426	ug/L	94
77) o Xylene	9.159	106	13724	1.450	ug/L	89
78) Styrene	9.196	104	23590	1.467	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N21.D
 Acq On : 08 Mar 2023 11:35 pm
 Operator : VOA129:AJK
 Sample : I8260STD1PPB
 Misc : WG1753306,ICAL
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 09 18:10:23 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Bromoform	9.207	173	2844	0.706	ug/L	100
82) Isopropylbenzene	9.364	105	16776	0.650	ug/L	91
84) Bromobenzene	9.589	156	4770	0.720	ug/L	91
85) n-Propylbenzene	9.616	91	20363	0.656	ug/L	92
86) 1,4-Dichlorobutane	9.621	55	8233	0.879	ug/L #	87
87) 1,1,2,2-Tetrachloroethane	9.657	83	4716	0.787	ug/L	96
88) 4-Ethyltoluene	9.684	105	17998	0.690	ug/L	95
89) 2-Chlorotoluene	9.705	91	12807M6	0.718	ug/L	
90) 1,3,5-Trimethylbenzene	9.736	105	14927	0.662	ug/L	89
91) 1,2,3-Trichloropropane	9.731	75	3244	0.664	ug/L #	70
92) trans-1,4-Dichloro-2-b...	9.762	53	1801	0.817	ug/L	85
93) 4-Chlorotoluene	9.804	91	13376	0.686	ug/L #	87
94) tert-Butylbenzene	9.920	119	12710	0.663	ug/L	100
97) 1,2,4-Trimethylbenzene	9.962	105	15606	0.700	ug/L	92
98) sec-Butylbenzene	10.024	105	18127	0.636	ug/L	98
99) p-Isopropyltoluene	10.108	119	16345	0.649	ug/L	97
100) 1,3-Dichlorobenzene	10.145	146	9345	0.722	ug/L	98
101) 1,4-Dichlorobenzene	10.198	146	10085	0.773	ug/L #	81
102) p-Diethylbenzene	10.318	119	9461	0.621	ug/L	93
103) n-Butylbenzene	10.350	91	13539	0.613	ug/L	92
104) 1,2-Dichlorobenzene	10.439	146	9293	0.755	ug/L	99
105) 1,2,4,5-Tetramethylben...	10.769	119	16720	0.704	ug/L	97
106) 1,2-Dibromo-3-chloropr...	10.890	155	1025	0.873	ug/L	99
107) 1,3,5-Trichlorobenzene	10.911	180	7191	0.710	ug/L	91
108) Hexachlorobutadiene	11.251	225	3000	0.579	ug/L	98
109) 1,2,4-Trichlorobenzene	11.267	180	6851	0.732	ug/L	99
110) Naphthalene	11.445	128	19846	0.944	ug/L	100
111) 1,2,3-Trichlorobenzene	11.550	180	6824	0.790	ug/L	99

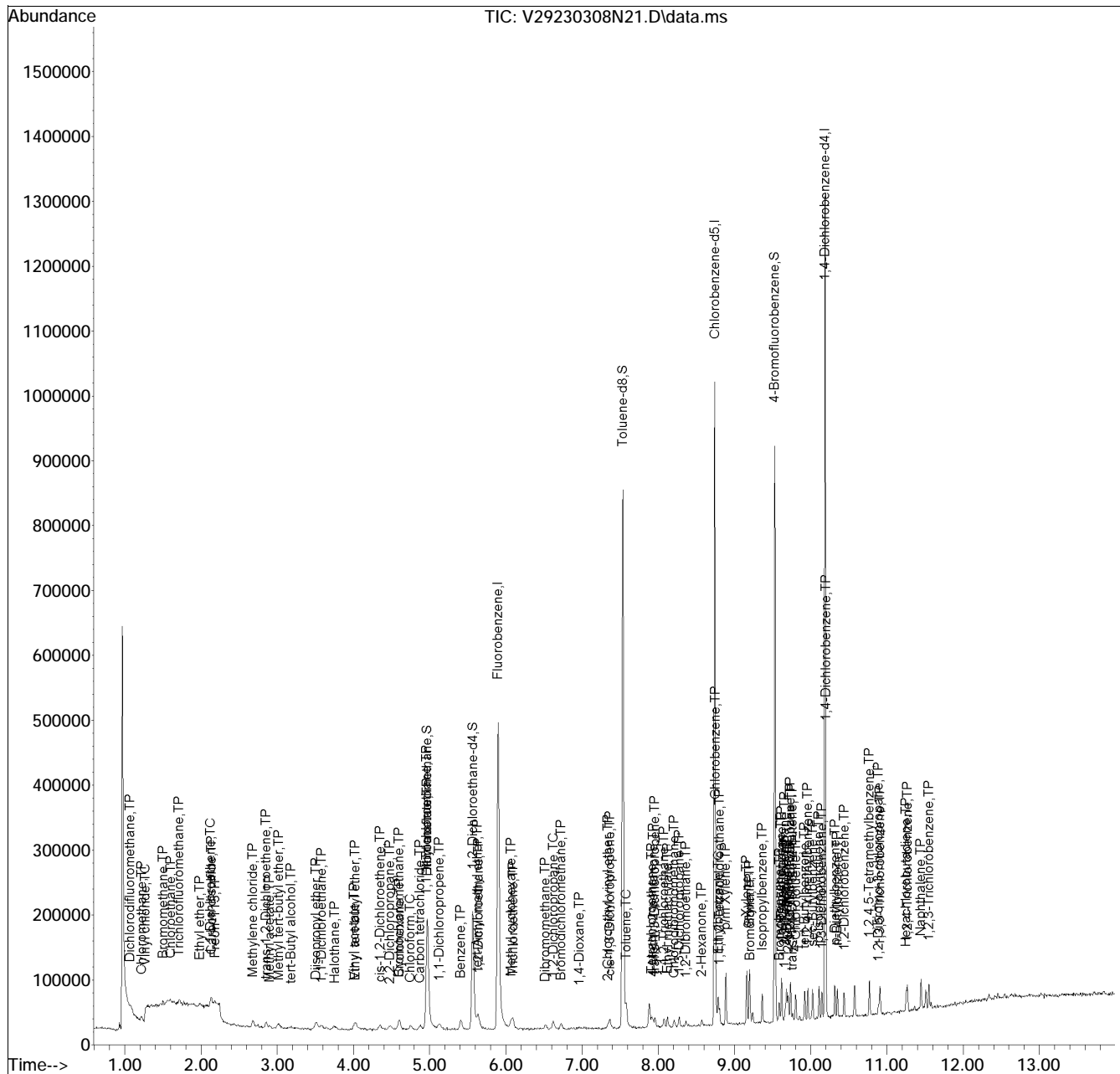
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230308N21.D
 Acq On : 08 Mar 2023 11:35 pm
 Operator : VOA129:AJK
 Sample : I8260STD1PPB
 Misc : WG1753306,ICAL
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 09 18:10:23 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 13:04:01 2023
 Response via : Initial Calibration

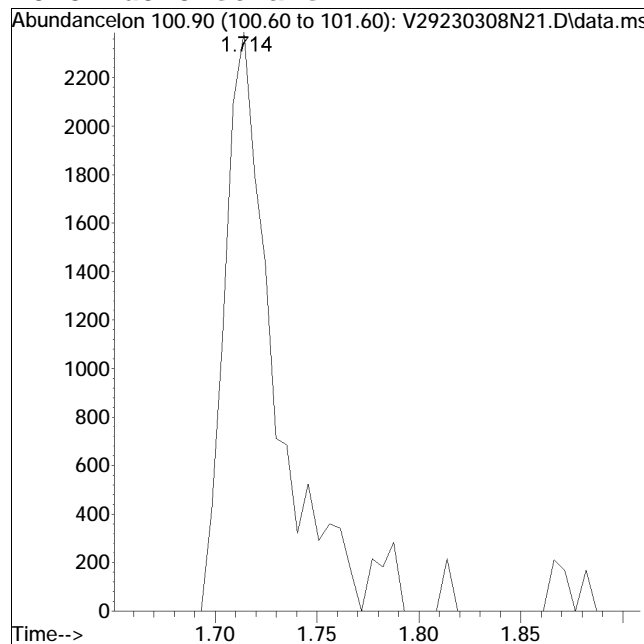
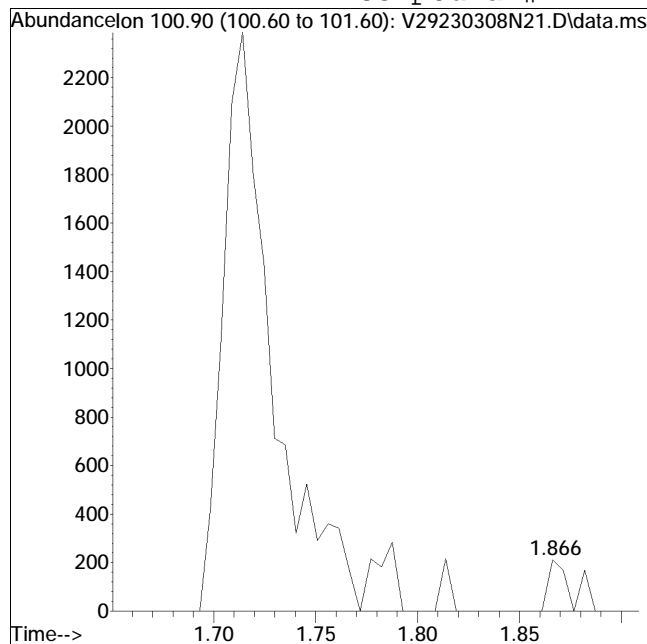
Sub List : 8260-CurveSoil - Megamix plus Diox8N-ICAL\V29230308N09.D



Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N21.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 11:35 pm Instrument : VOA 129
Sample : I8260STD1PPB Quant Date : 3/9/2023 2:28 pm

Compound #7: Trichlorofluoromethane



Original Peak Response = 172

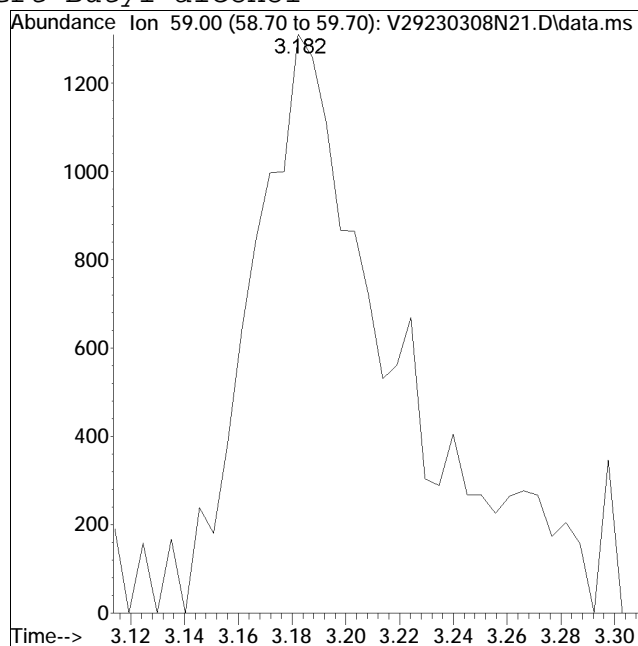
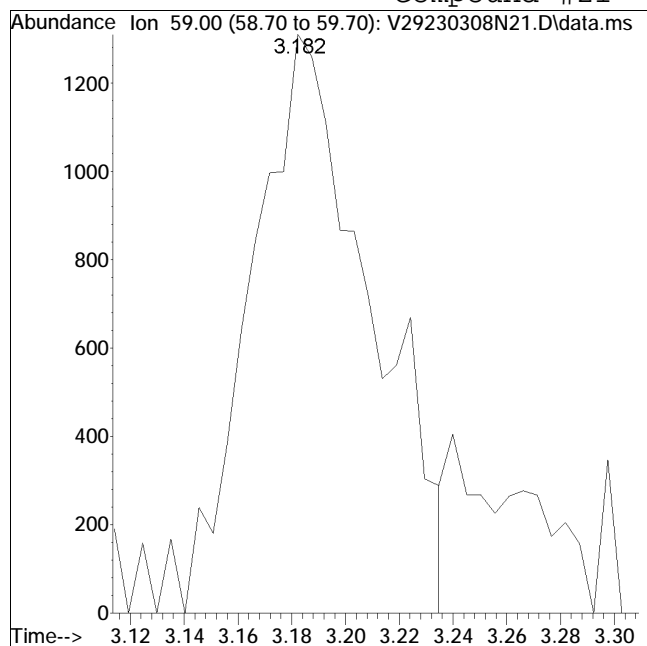
Manual Peak Response = 3988 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N21.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 11:35 pm Instrument : VOA 129
Sample : I8260STD1PPB Quant Date : 3/9/2023 2:28 pm

Compound #21: tert-Butyl alcohol



Original Peak Response = 4071

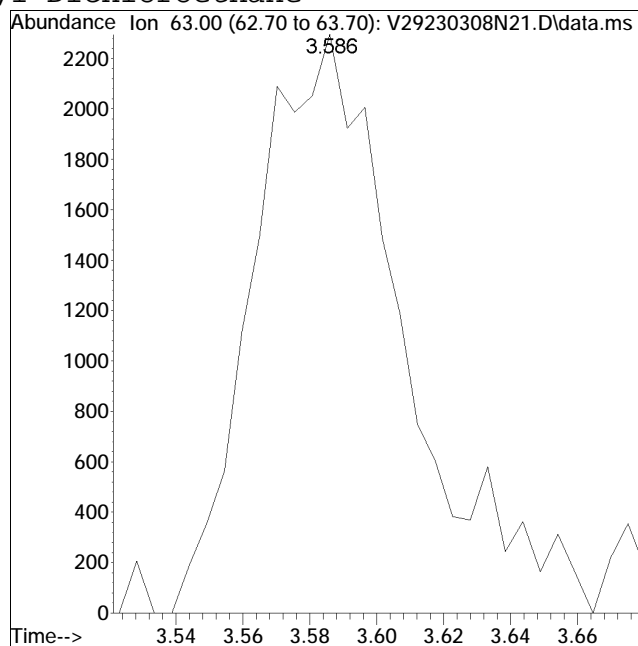
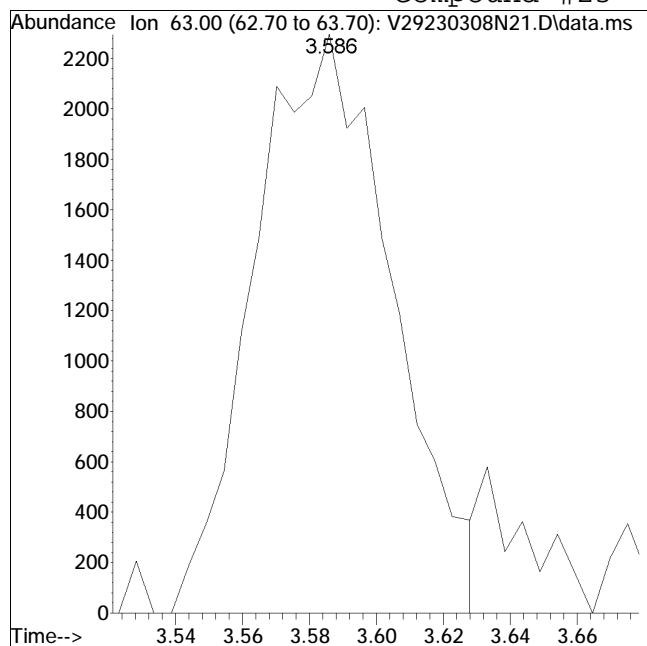
Manual Peak Response = 4808 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N21.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 11:35 pm Instrument : VOA 129
Sample : I8260STD1PPB Quant Date : 3/9/2023 2:28 pm

Compound #23: 1,1-Dichloroethane



Original Peak Response = 6562

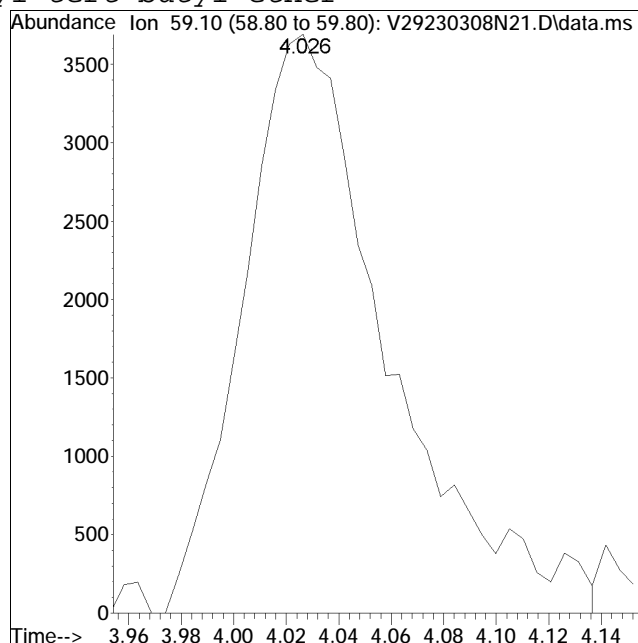
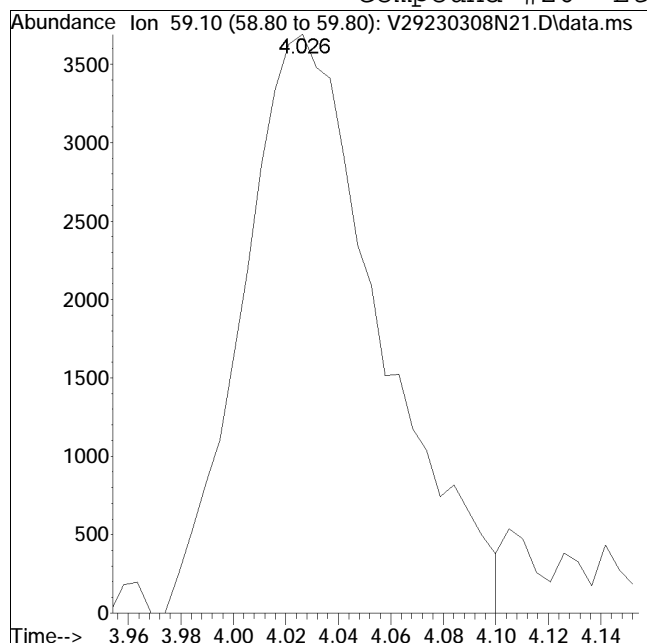
Manual Peak Response = 7135 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N21.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 11:35 pm Instrument : VOA 129
Sample : I8260STD1PPB Quant Date : 3/9/2023 2:28 pm

Compound #26: Ethyl tert-butyl ether



Original Peak Response = 13413

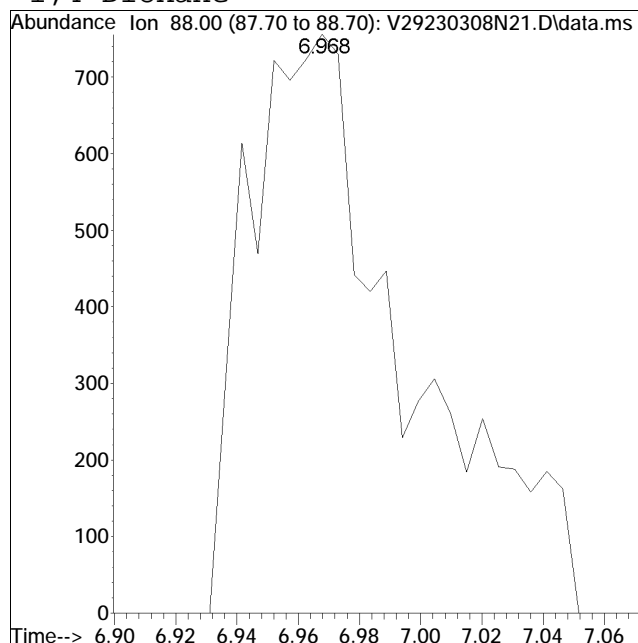
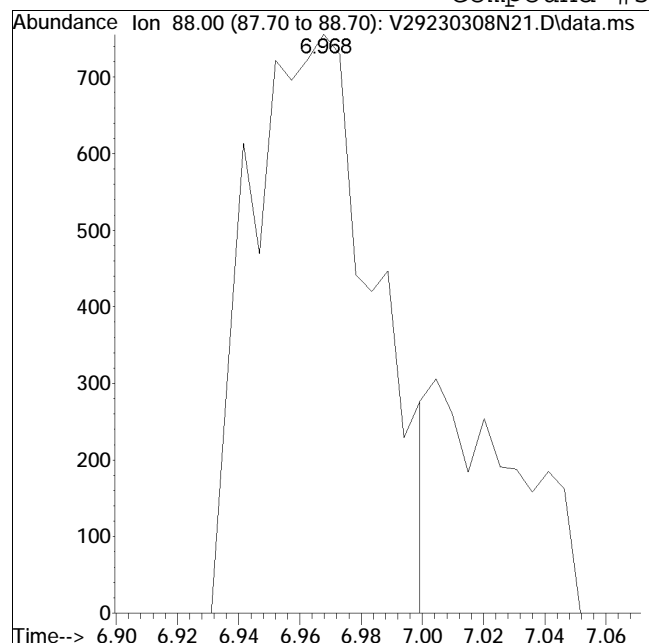
Manual Peak Response = 14154 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N21.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 11:35 pm Instrument : VOA 129
Sample : I8260STD1PPB Quant Date : 3/9/2023 2:28 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 2149

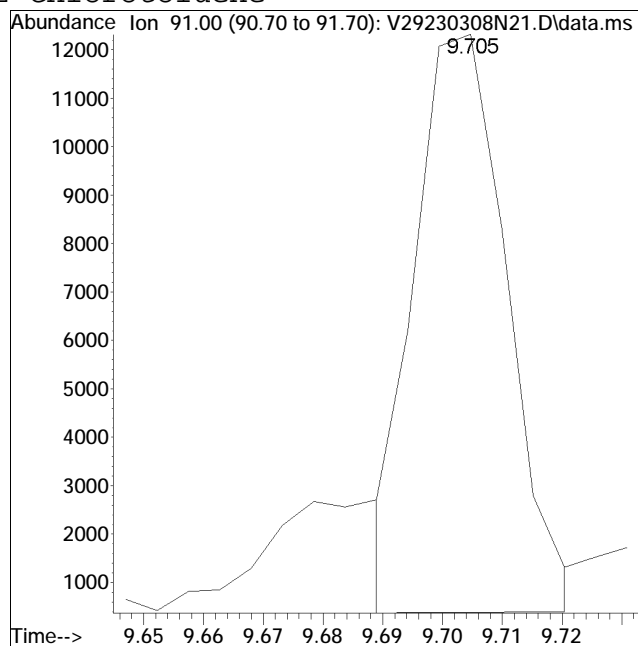
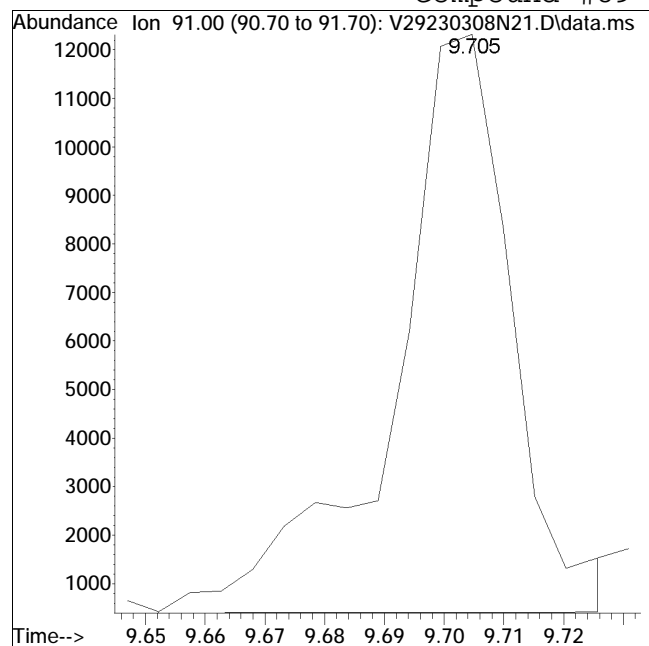
Manual Peak Response = 2743 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230308N21.D Operator : VOA129:AJK
Date Inj'd : 3/8/2023 11:35 pm Instrument : VOA 129
Sample : I8260STD1PPB Quant Date : 3/9/2023 2:28 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 16346

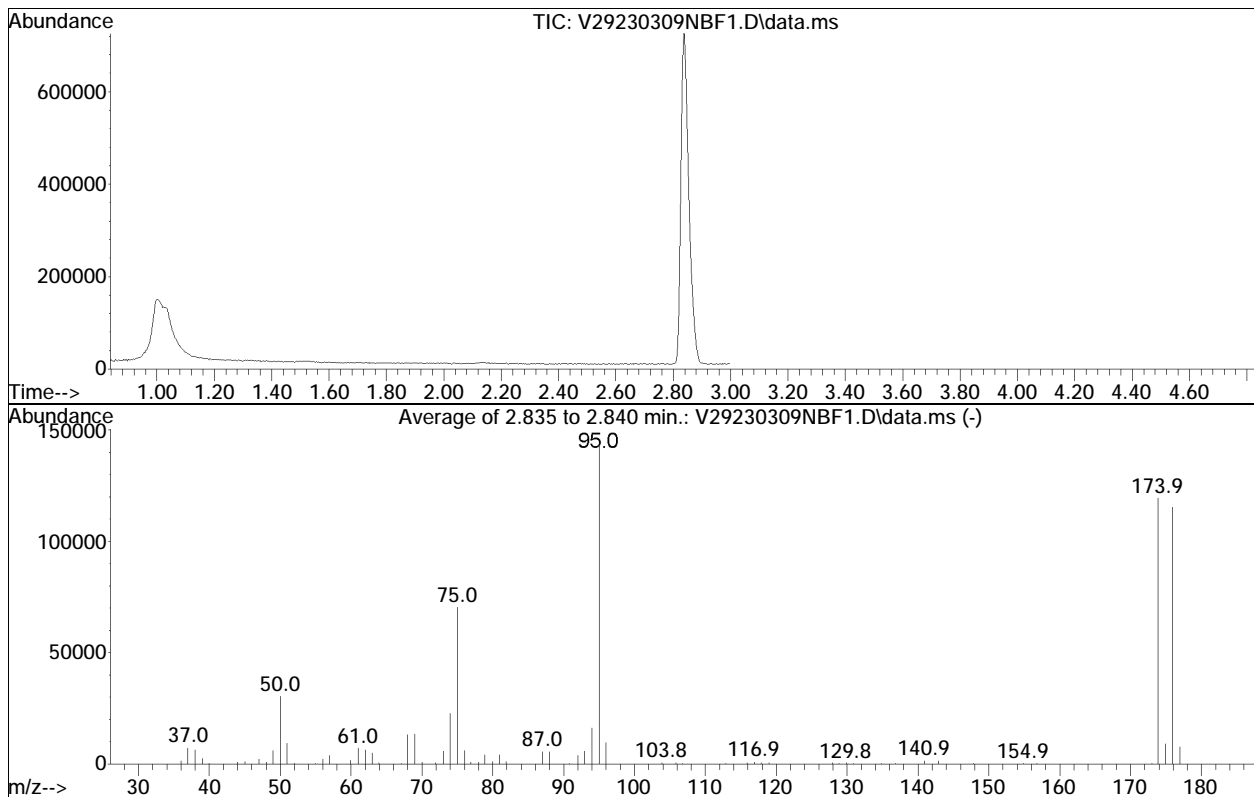
Manual Peak Response = 12807 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230309NBF1.D
 Acq On : 09 Mar 2023 05:51 pm
 Operator : VOA129:AJK
 Sample : WG1753306-2
 Misc : WG1753306,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Mar 09 17:16:29 2023



Spectrum Information: Average of 2.835 to 2.840 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.2	30360	PASS
75	95	30	60	49.2	70517	PASS
95	95	100	100	100.0	143445	PASS
96	95	5	9	6.8	9718	PASS
173	174	0.00	2	0.3	315	PASS
174	95	50	100	83.4	119656	PASS
175	174	5	9	7.6	9146	PASS
176	174	95	101	96.4	115328	PASS
177	176	5	9	6.6	7637	PASS

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230309N03.D
 Acq On : 09 Mar 2023 06:54 pm
 Operator : VOA129:JIC
 Sample : C8260STD40PPB
 Misc : WG1753306,ICAL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 13 08:15:34 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	101	0.00
2 TP	Dichlorodifluoromethane	0.217	0.285	-31.3#	135	0.00
3 TP	Chloromethane	0.309	0.355	-14.9	118	0.00
4 TC	Vinyl chloride	0.255	0.319	-25.1#	124	0.00
5 TP	Bromomethane	0.132	0.164	-24.2#	134	0.00
6 TP	Chloroethane	0.144	0.152	-5.6	106	0.00
7 TP	Trichlorofluoromethane	0.297	0.337	-13.5	111	0.00
8 TP	Ethyl ether	0.099	0.127	-28.3#	135	0.00
10 TC	1,1-Dichloroethene	0.179	0.186	-3.9	105	0.00
11 TP	Carbon disulfide	0.636	0.617	3.0	97	0.00
12 TP	Freon-113	0.197	0.210	-6.6	104	0.00
14 TP	Acrolein	0.041	0.041	0.0	127	0.00
15 TP	Methylene chloride	0.233	0.226	3.0	101	0.00
17 TP	Acetone	* 40.000	38.811	3.0	117	0.00
18 TP	trans-1,2-Dichloroethene	0.219	0.221	-0.9	102	0.00
19 TP	Methyl acetate	0.165	0.176	-6.7	113	0.00
20 TP	Methyl tert-butyl ether	0.548	0.644	-17.5	118	0.00
21 TP	tert-Butyl alcohol	0.036	0.034	5.6	116	0.00
22 TP	Diisopropyl ether	0.873	0.938	-7.4	106	0.00
23 TP	1,1-Dichloroethane	0.422	0.428	-1.4	102	0.00
24 TP	Halothane	0.176	0.179	-1.7	103	0.00
25 TP	Acrylonitrile	0.083	0.087	-4.8	111	0.00
26 TP	Ethyl tert-butyl ether	0.807	0.853	-5.7	104	0.00
27 TP	Vinyl acetate	0.566	0.553	2.3	101	0.00
28 TP	cis-1,2-Dichloroethene	0.244	0.227	7.0	94	0.00
29 TP	2,2-Dichloropropane	0.344	0.344	0.0	103	0.00
30 TP	Bromochloromethane	0.120	0.111	7.5	92	0.00
31 TP	Cyclohexane	0.462	0.497	-7.6	102	0.00
32 TC	Chloroform	0.390	0.395	-1.3	100	0.00
33 TP	Ethyl acetate	0.262	0.278	-6.1	109	0.00
34 TP	Carbon tetrachloride	0.309	0.318	-2.9	103	0.00
35 TP	Tetrahydrofuran	0.093	0.096	-3.2	113	0.00
36 S	Dibromofluoromethane	0.263	0.257	2.3	101	0.00
37 TP	1,1,1-Trichloroethane	0.327	0.358	-9.5	105	0.00
39 TP	2-Butanone	0.147	0.123	16.3	94	0.00
40 TP	1,1-Dichloropropene	0.284	0.307	-8.1	101	0.00
41 TP	Benzene	0.835	0.855	-2.4	98	0.00
42 TP	tert-Amyl methyl ether	0.654	0.680	-4.0	104	0.00
43 S	1,2-Dichloroethane-d4	0.292	0.291	0.3	104	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230309N03.D
 Acq On : 09 Mar 2023 06:54 pm
 Operator : VOA129:JIC
 Sample : C8260STD40PPB
 Misc : WG1753306,ICAL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 13 08:15:34 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TP	1,2-Dichloroethane	0.321	0.317	1.2	102	0.00
47 TP	Methyl cyclohexane	0.394	0.429	-8.9	103	0.00
48 TP	Trichloroethene	0.238	0.240	-0.8	96	0.00
50 TP	Dibromomethane	0.145	0.134	7.6	98	0.00
51 TC	1,2-Dichloropropane	0.270	0.259	4.1	97	0.00
53 TP	2-Chloroethyl vinyl ether	0.177	0.162	8.5	96	0.00
54 TP	Bromodichloromethane	0.312	0.312	0.0	97	0.00
57 TP	1,4-Dioxane	0.00269	0.00259#	3.7	104	0.00
58 TP	cis-1,3-Dichloropropene	0.381	0.389	-2.1	100	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
60 S	Toluene-d8	1.300	1.321	-1.6	101	0.00
61 TC	Toluene	0.737	0.730	0.9	99	0.00
62 TP	4-Methyl-2-pentanone	0.142	0.130	8.5	96	0.00
63 TP	Tetrachloroethene	* 40.000	37.587	6.0	99	0.00
65 TP	trans-1,3-Dichloropropene	0.465	0.485	-4.3	102	0.00
67 TP	Ethyl methacrylate	0.394	0.427	-8.4	109	0.00
68 TP	1,1,2-Trichloroethane	0.222	0.217	2.3	100	0.00
69 TP	Chlorodibromomethane	0.321	0.332	-3.4	101	0.00
70 TP	1,3-Dichloropropane	0.444	0.436	1.8	97	0.00
71 TP	1,2-Dibromoethane	0.270	0.262	3.0	95	0.00
72 TP	2-Hexanone	0.272	0.254	6.6	102	0.00
73 TP	Chlorobenzene	0.832	0.834	-0.2	98	0.00
74 TC	Ethylbenzene	1.377	1.422	-3.3	99	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.305	0.305	0.0	95	0.00
76 TP	p/m Xylene	0.533	0.547	-2.6	98	0.00
77 TP	o Xylene	0.519	0.552	-6.4	103	0.00
78 TP	Styrene	0.867	0.932	-7.5	102	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
80 TP	Bromoform	0.408	0.415	-1.7	102	0.00
82 TP	Isopropylbenzene	2.521	2.575	-2.1	99	0.00
83 S	4-Bromofluorobenzene	0.899	0.904	-0.6	103	0.00
84 TP	Bromobenzene	0.671	0.640	4.6	96	-0.01
85 TP	n-Propylbenzene	3.006	3.118	-3.7	100	0.00
86 TP	1,4-Dichlorobutane	0.974	1.083	-11.2	115	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.624	0.610	2.2	101	0.00
88 TP	4-Ethyltoluene	2.574	2.873	-11.6	109	0.00
89 TP	2-Chlorotoluene	1.795	1.736	3.3	97	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230309N03.D
 Acq On : 09 Mar 2023 06:54 pm
 Operator : VOA129:JIC
 Sample : C8260STD40PPB
 Misc : WG1753306,ICAL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 13 08:15:34 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	2.222	2.253	-1.4	99	0.00
91 TP	1,2,3-Trichloropropane	0.483	0.493	-2.1	100	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.219	0.252	-15.1	114	0.00
93 TP	4-Chlorotoluene	1.921	1.899	1.1	97	0.00
94 TP	tert-Butylbenzene	1.890	1.908	-1.0	99	0.00
97 TP	1,2,4-Trimethylbenzene	2.208	2.290	-3.7	102	0.00
98 TP	sec-Butylbenzene	2.757	2.856	-3.6	99	0.00
99 TP	p-Isopropyltoluene	2.446	2.484	-1.6	98	0.00
100 TP	1,3-Dichlorobenzene	1.298	1.295	0.2	99	0.00
101 TP	1,4-Dichlorobenzene	1.325	1.229	7.2	94	0.00
102 TP	p-Diethylbenzene	1.493	1.613	-8.0	105	-0.01
103 TP	n-Butylbenzene	2.139	2.320	-8.5	104	0.00
104 TP	1,2-Dichlorobenzene	1.243	1.224	1.5	99	-0.01
105 TP	1,2,4,5-Tetramethylbenzene	2.340	2.476	-5.8	104	-0.01
106 TP	1,2-Dibromo-3-chloropropane	0.126	0.118	6.3	100	-0.01
107 TP	1,3,5-Trichlorobenzene	1.008	1.032	-2.4	101	-0.01
108 TP	Hexachlorobutadiene	0.501	0.490	2.2	94	-0.01
109 TP	1,2,4-Trichlorobenzene	0.941	0.901	4.3	96	-0.01
110 TP	Naphthalene	2.181	2.055	5.8	97	0.00
111 TP	1,2,3-Trichlorobenzene	0.869	0.837	3.7	96	-0.01

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 1 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230309N03.D
 Acq On : 09 Mar 2023 06:54 pm
 Operator : VOA129:JIC
 Sample : C8260STD40PPB
 Misc : WG1753306,ICAL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 13 08:15:34 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.898	96	495466	20.000	ug/L	0.00
Standard Area 1 = 488686			Recovery = 101.39%			
59) Chlorobenzene-d5	8.740	117	367521	20.000	ug/L	0.00
Standard Area 1 = 366696			Recovery = 100.22%			
79) 1,4-Dichlorobenzene-d4	10.187	152	198716	20.000	ug/L	0.00
Standard Area 1 = 195456			Recovery = 101.67%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.965	113	127495	19.558	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 97.79%			
43) 1,2-Dichloroethane-d4	5.563	65	143933	19.886	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.43%			
60) Toluene-d8	7.534	98	485597	20.328	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 101.64%			
83) 4-Bromofluorobenzene	9.527	95	179597	20.107	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 100.54%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.069	85	282165	52.422	ug/L	99
3) Chloromethane	1.221	50	352007	46.032	ug/L	99
4) Vinyl chloride	1.269	62	315772	50.030	ug/L	97
5) Bromomethane	1.505	94	162803	49.612	ug/L	99
6) Chloroethane	1.599	64	150323	42.246	ug/L	99
7) Trichlorofluoromethane	1.714	101	334038	45.335	ug/L	96
8) Ethyl ether	1.982	74	126078	51.242	ug/L	87
10) 1,1-Dichloroethene	2.128	96	184095	41.526	ug/L	81
11) Carbon disulfide	2.139	76	611476	38.815	ug/L	97
12) Freon-113	2.181	101	208073	42.641	ug/L	90
14) Acrolein	2.443	56	40921	40.662	ug/L	92
15) Methylene chloride	2.679	84	223698	38.789	ug/L	86
17) Acetone	2.742	43	62459	38.811	ug/L	95
18) trans-1,2-Dichloroethene	2.857	96	218936	40.418	ug/L	86
19) Methyl acetate	2.899	43	174493	42.658	ug/L #	96
20) Methyl tert-butyl ether	3.009	73	638281	47.011	ug/L	98
21) tert-Butyl alcohol	3.182	59	170085	192.807	ug/L #	69
22) Diisopropyl ether	3.507	45	929168	42.945	ug/L	97
23) 1,1-Dichloroethane	3.581	63	423928	40.579	ug/L	100
24) Halothane	3.754	117	177869	40.819	ug/L	98
25) Acrylonitrile	3.639	53	86285	41.802	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230309N03.D
 Acq On : 09 Mar 2023 06:54 pm
 Operator : VOA129:JIC
 Sample : C8260STD40PPB
 Misc : WG1753306,ICAL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 13 08:15:34 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.021	59	845441	42.285	ug/L	94
27) Vinyl acetate	4.000	43	547995	39.078	ug/L	98
28) cis-1,2-Dichloroethene	4.346	96	224935	37.216	ug/L #	78
29) 2,2-Dichloropropane	4.483	77	341244	40.096	ug/L	98
30) Bromochloromethane	4.598	128	110468	37.017	ug/L #	71
31) Cyclohexane	4.598	56	492659	43.041	ug/L	88
32) Chloroform	4.745	83	391548	40.555	ug/L	98
33) Ethyl acetate	4.960	43	275786	42.422	ug/L #	95
34) Carbon tetrachloride	4.876	117	314729	41.084	ug/L	98
35) Tetrahydrofuran	4.928	42	94659	40.966	ug/L #	88
37) 1,1,1-Trichloroethane	4.960	97	354451	43.752	ug/L #	95
39) 2-Butanone	5.133	43	121600	33.283	ug/L #	58
40) 1,1-Dichloropropene	5.122	75	304059	43.234	ug/L	96
41) Benzene	5.405	78	846883	40.933	ug/L	95
42) tert-Amyl methyl ether	5.620	73	673380	41.586	ug/L	91
44) 1,2-Dichloroethane	5.641	62	314422	39.582	ug/L	98
47) Methyl cyclohexane	6.066	83	425323	43.570	ug/L	87
48) Trichloroethene	6.092	95	237623	40.332	ug/L	95
50) Dibromomethane	6.512	93	133209	37.046	ug/L	93
51) 1,2-Dichloropropane	6.617	63	256249	38.343	ug/L #	93
53) 2-Chloroethyl vinyl ether	7.335	63	160312	36.655	ug/L	98
54) Bromodichloromethane	6.721	83	309046	40.047	ug/L	98
57) 1,4-Dioxane	6.942	88	128458M1	1929.749	ug/L	
58) cis-1,3-Dichloropropene	7.356	75	385458	40.852	ug/L	97
61) Toluene	7.576	92	536706	39.638	ug/L	97
62) 4-Methyl-2-pentanone	7.927	58	95819	36.593	ug/L #	91
63) Tetrachloroethene	7.912	166	246537	37.587	ug/L	89
65) trans-1,3-Dichloropropene	7.954	75	356129	41.671	ug/L	98
67) Ethyl methacrylate	8.116	69	313869	43.359	ug/L	100
68) 1,1,2-Trichloroethane	8.074	83	159654	39.176	ug/L	95
69) Chlorodibromomethane	8.205	129	243746	41.323	ug/L	96
70) 1,3-Dichloropropane	8.273	76	320515	39.290	ug/L	98
71) 1,2-Dibromoethane	8.357	107	192532	38.780	ug/L	97
72) 2-Hexanone	8.567	43	186336	37.216	ug/L	98
73) Chlorobenzene	8.751	112	613172	40.119	ug/L	91
74) Ethylbenzene	8.782	91	1045391	41.302	ug/L	98
75) 1,1,1,2-Tetrachloroethane	8.803	131	224008	40.005	ug/L	95
76) p/m Xylene	8.882	106	804749	82.144	ug/L	98
77) o Xylene	9.159	106	811016	85.022	ug/L	92
78) Styrene	9.196	104	1370316	85.975	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230309N03.D
 Acq On : 09 Mar 2023 06:54 pm
 Operator : VOA129:JIC
 Sample : C8260STD40PPB
 Misc : WG1753306,ICAL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 13 08:15:34 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA129\2023\230308N-ICAL\V29230308N09.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Bromoform	9.201	173	165083	40.691	ug/L	97
82) Isopropylbenzene	9.364	105	1023200	40.851	ug/L	96
84) Bromobenzene	9.584	156	254547	38.202	ug/L	97
85) n-Propylbenzene	9.616	91	1239335	41.498	ug/L	96
86) 1,4-Dichlorobutane	9.616	55	430414	44.480	ug/L	92
87) 1,1,2,2-Tetrachloroethane	9.658	83	242591	39.127	ug/L	99
88) 4-Ethyltoluene	9.684	105	1141954	44.649	ug/L	97
89) 2-Chlorotoluene	9.700	91	689912M6	38.674	ug/L	
90) 1,3,5-Trimethylbenzene	9.736	105	895570	40.559	ug/L	92
91) 1,2,3-Trichloropropane	9.731	75	195790	40.787	ug/L	98
92) trans-1,4-Dichloro-2-b...	9.757	53	100299	46.112	ug/L	87
93) 4-Chlorotoluene	9.799	91	754870	39.549	ug/L	94
94) tert-Butylbenzene	9.920	119	758464	40.393	ug/L	96
97) 1,2,4-Trimethylbenzene	9.962	105	910100	41.478	ug/L	94
98) sec-Butylbenzene	10.025	105	1134897	41.423	ug/L	97
99) p-Isopropyltoluene	10.108	119	987159	40.620	ug/L	96
100) 1,3-Dichlorobenzene	10.145	146	514817	39.910	ug/L	98
101) 1,4-Dichlorobenzene	10.198	146	488257	37.083	ug/L	98
102) p-Diethylbenzene	10.313	119	641247	43.218	ug/L	94
103) n-Butylbenzene	10.350	91	921867	43.369	ug/L	98
104) 1,2-Dichlorobenzene	10.434	146	486317	39.389	ug/L	97
105) 1,2,4,5-Tetramethylben...	10.769	119	984079	42.329	ug/L	98
106) 1,2-Dibromo-3-chloropr...	10.884	155	46859	37.409	ug/L	91
107) 1,3,5-Trichlorobenzene	10.905	180	409966	40.933	ug/L	94
108) Hexachlorobutadiene	11.252	225	194740	39.138	ug/L	96
109) 1,2,4-Trichlorobenzene	11.267	180	357951	38.274	ug/L	99
110) Naphthalene	11.445	128	816645	37.689	ug/L	100
111) 1,2,3-Trichlorobenzene	11.550	180	332606	38.509	ug/L	99

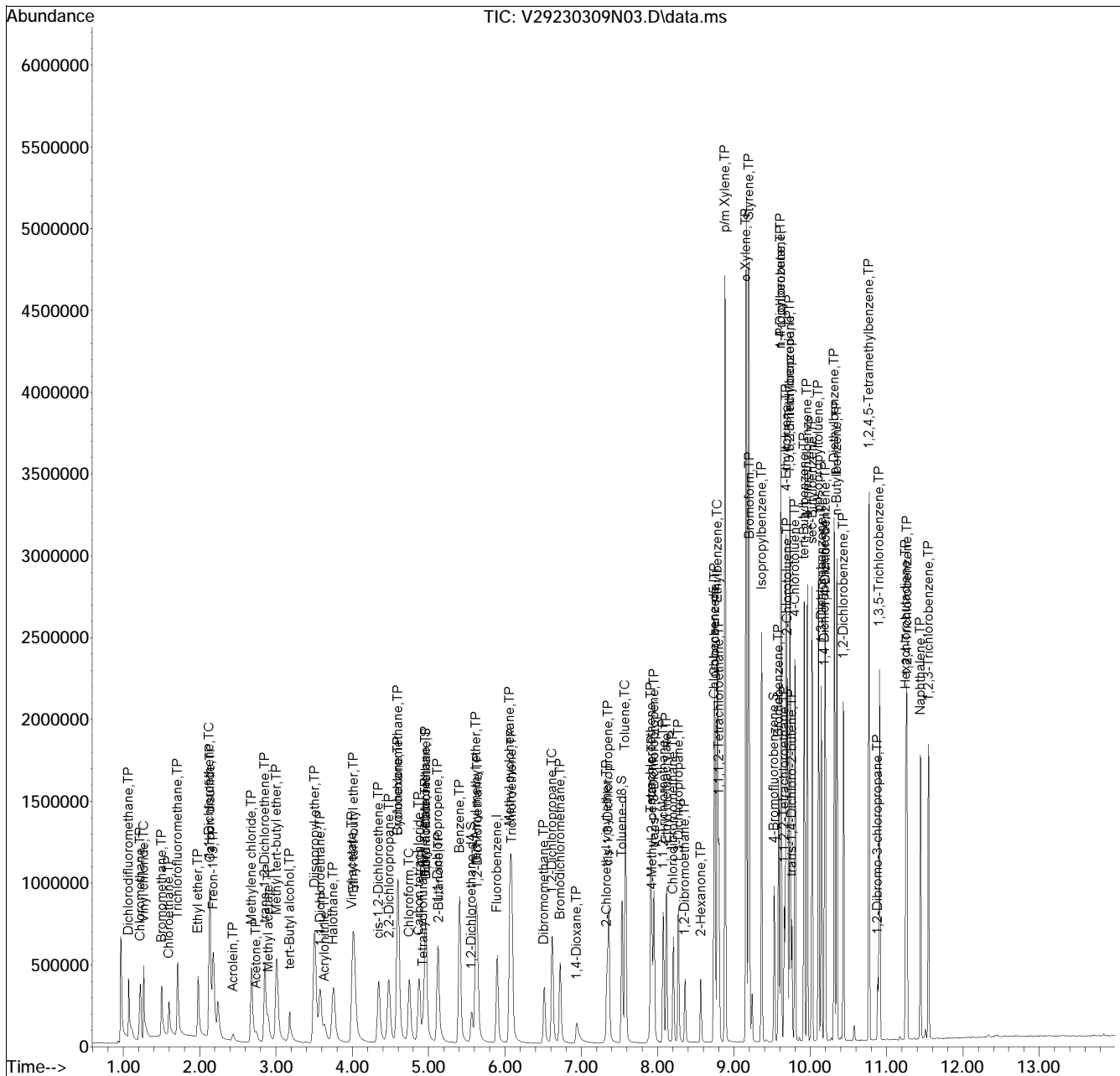
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
 Data File : V29230309N03.D
 Acq On : 09 Mar 2023 06:54 pm
 Operator : VOA129:JIC
 Sample : C8260STD40PPB
 Misc : WG1753306,ICAL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 13 08:15:34 2023
 Quant Method : I:\VOLATILES\VOA129\2023\230308N-ICAL\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

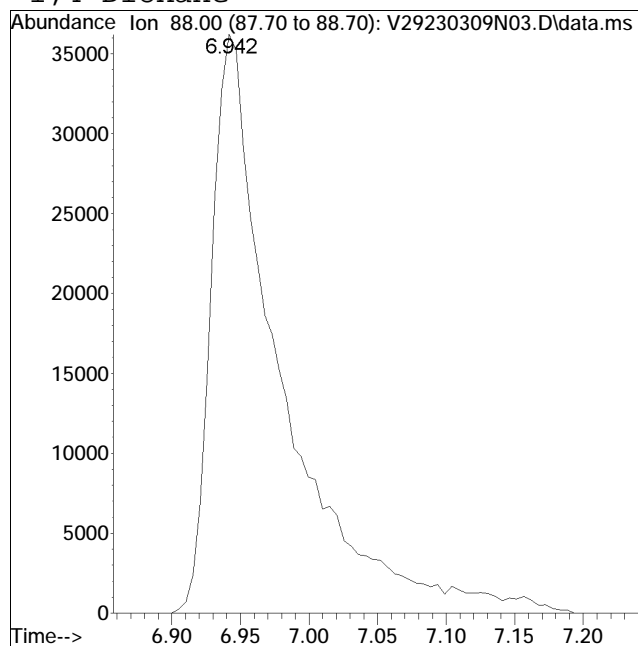
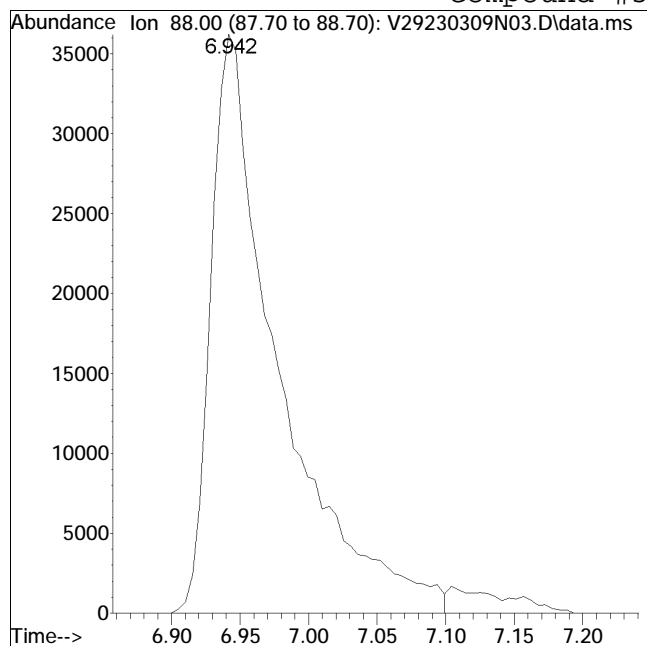
Sub List : 8260-CurveSoil - Megamix plus Diox8N-ICAL\V29230308N09.D



Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230309N03.D Operator : VOA129:JIC
Date Inj'd : 3/9/2023 6:54 pm Instrument : VOA 129
Sample : C8260STD40PPB Quant Date : 3/13/2023 8:15 am

Compound #57: 1,4-Dioxane



Original Peak Response = 123618

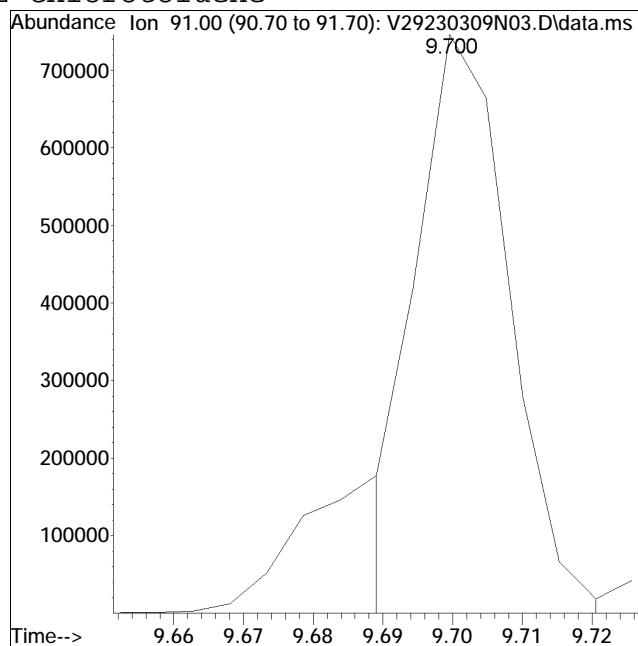
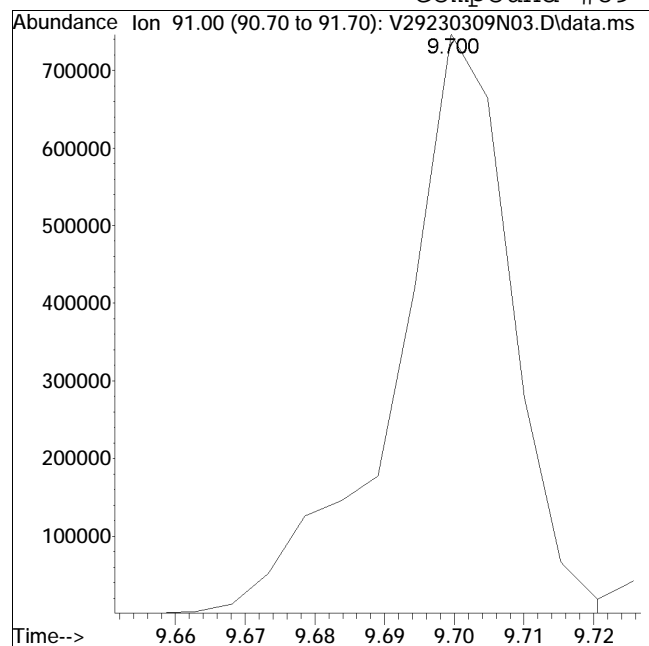
Manual Peak Response = 128458 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA129\2023\2QMethod : V129_230308N_8260.m
Data File : V29230309N03.D Operator : VOA129:JIC
Date Inj'd : 3/9/2023 6:54 pm Instrument : VOA 129
Sample : C8260STD40PPB Quant Date : 3/13/2023 8:15 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 849125

Manual Peak Response = 689912 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Method Path : I:\VOLATILES\VOA129\2023\230308N-ICAL\
Method File : V129_230308N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu Mar 09 17:16:29 2023

COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
17 TP Acetone	L	ug/L	40.0	33.265	-16.8	2.00	2.124	6.2
63 TP Tetrachloroethene	L	ug/L	40.0	38.227	-4.4	0.50	0.615	23.0

Calibration Correlation Report

COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
17 TP Acetone	Linear	0.997442	0.000000	0.0601111	0.00941273
63 TP Tetrachloroethene	Linear	0.999671	0.000000	0.359792	-0.00536767

Continuing Calibration

Calibration Verification Summary

Form 7

Volatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : VOA129
 Lab File ID : V29230721N01
 Sample No : WG1806697-2
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/21/23 18:37
 Init. Calib. Date(s) : 03/08/23 03/08/23
 Init. Calib. Times : 18:23 23:35

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	58	0
Dichlorodifluoromethane	0.217	0.228	-	-5.1	20	62	0
Chloromethane	0.309	0.23	-	25.6*	20	44	0
Vinyl chloride	0.255	0.25	-	2	20	56	0
Bromomethane	0.132	0.189	-	-43.2*	20	89	0
Chloroethane	0.144	0.158	-	-9.7	20	63	0
Trichlorofluoromethane	0.297	0.352	-	-18.5	20	66	0
Ethyl ether	0.099	0.108	-	-9.1	20	66	0
1,1-Dichloroethene	0.179	0.21	-	-17.3	20	68	0
Carbon disulfide	0.636	0.7	-	-10.1	20	63	0
Freon-113	0.197	0.233	-	-18.3	20	66	0
Acrolein	0.041	0.041	-	0	20	73	0
Methylene chloride	0.233	0.247	-	-6	20	63	0
Acetone	40	37.975	-	5.1	20	66	-.01
trans-1,2-Dichloroethene	0.219	0.242	-	-10.5	20	64	0
Methyl acetate	0.165	0.145	-	12.1	20	53	0
Methyl tert-butyl ether	0.548	0.598	-	-9.1	20	63	0
tert-Butyl alcohol	0.036	0.028	-	22.2*	20	54	-.01
Diisopropyl ether	0.873	0.762	-	12.7	20	50	-.01
1,1-Dichloroethane	0.422	0.462	-	-9.5	20	63	0
Halothane	0.176	0.18	-	-2.3	20	59	0
Acrylonitrile	0.083	0.07	-	15.7	20	51	0
Ethyl tert-butyl ether	0.807	0.77	-	4.6	20	54	0
Vinyl acetate	0.566	0.4	-	29.3*	20	42	-.01
cis-1,2-Dichloroethene	0.244	0.257	-	-5.3	20	61	0
2,2-Dichloropropane	0.344	0.372	-	-8.1	20	63	0
Bromochloromethane	0.12	0.117	-	2.5	20	55	0
Cyclohexane	0.462	0.513	-	-11	20	60	0
Chloroform	0.39	0.428	-	-9.7	20	62	0
Ethyl acetate	0.262	0.199	-	24*	20	45	0
Carbon tetrachloride	0.309	0.332	-	-7.4	20	61	-.01
Tetrahydrofuran	0.093	0.069	-	25.8*	20	47	0
Dibromofluoromethane	0.263	0.248	-	5.7	20	56	0
1,1,1-Trichloroethane	0.327	0.388	-	-18.7	20	65	0
2-Butanone	0.147	0.092	-	37.4*	20	40	0
1,1-Dichloropropene	0.284	0.335	-	-18	20	63	0
Benzene	0.835	0.922	-	-10.4	20	61	0
tert-Amyl methyl ether	0.654	0.608	-	7	20	53	-.01
1,2-Dichloroethane-d4	0.292	0.281	-	3.8	20	57	-.01
1,2-Dichloroethane	0.321	0.323	-	-0.6	20	60	0
Methyl cyclohexane	0.394	0.439	-	-11.4	20	61	-.01
Trichloroethene	0.238	0.276	-	-16	20	63	-.01
Dibromomethane	0.145	0.136	-	6.2	20	57	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : VOA129
 Lab File ID : V29230721N01
 Sample No : WG1806697-2
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/21/23 18:37
 Init. Calib. Date(s) : 03/08/23 03/08/23
 Init. Calib. Times : 18:23 23:35

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.27	0.265	-	1.9	20	57	-.01
2-Chloroethyl vinyl ether	0.177	0.14	-	20.9*	20	48	0
Bromodichloromethane	0.312	0.321	-	-2.9	20	57	-.01
1,4-Dioxane	0.00269	0.0024*	-	10.8	20	55	-.01
cis-1,3-Dichloropropene	0.381	0.366	-	3.9	20	54	0
Chlorobenzene-d5	1	1	-	0	20	60	0
Toluene-d8	1.3	1.299	-	0.1	20	60	-.01
Toluene	0.737	0.747	-	-1.4	20	61	-.01
4-Methyl-2-pentanone	0.142	0.111	-	21.8*	20	49	-.01
Tetrachloroethene	40	40.25	-	-0.6	20	63	-.01
trans-1,3-Dichloropropene	0.465	0.428	-	8	20	54	0
Ethyl methacrylate	0.394	0.316	-	19.8	20	48	-.01
1,1,2-Trichloroethane	0.222	0.209	-	5.9	20	58	-.01
Chlorodibromomethane	0.321	0.286	-	10.9	20	52	-.01
1,3-Dichloropropane	0.444	0.426	-	4.1	20	57	-.01
1,2-Dibromoethane	0.27	0.253	-	6.3	20	55	0
2-Hexanone	0.272	0.174	-	36*	20	42	0
Chlorobenzene	0.832	0.824	-	1	20	58	-.01
Ethylbenzene	1.377	1.472	-	-6.9	20	62	-.01
1,1,1,2-Tetrachloroethane	0.305	0.299	-	2	20	56	-.01
p/m Xylene	0.533	0.558	-	-4.7	20	60	0
o Xylene	0.519	0.533	-	-2.7	20	60	-.01
Styrene	0.867	0.905	-	-4.4	20	59	-.01
1,4-Dichlorobenzene-d4	1	1	-	0	20	62	0
Bromoform	0.408	0.362	-	11.3	20	54	0
Isopropylbenzene	2.521	2.682	-	-6.4	20	63	-.01
4-Bromofluorobenzene	0.899	0.941	-	-4.7	20	65	0
Bromobenzene	0.671	0.642	-	4.3	20	59	-.01
n-Propylbenzene	3.006	3.193	-	-6.2	20	62	-.01
1,4-Dichlorobutane	0.974	0.872	-	10.5	20	56	0
1,1,2,2-Tetrachloroethane	0.624	0.526	-	15.7	20	53	0
4-Ethyltoluene	2.574	2.701	-	-4.9	20	63	-.01
2-Chlorotoluene	1.795	1.851	-	-3.1	20	63	0
1,3,5-Trimethylbenzene	2.222	2.35	-	-5.8	20	63	-.01
1,2,3-Trichloropropane	0.483	0.437	-	9.5	20	54	-.01
trans-1,4-Dichloro-2-buten	0.219	0.191	-	12.8	20	52	0
4-Chlorotoluene	1.921	1.982	-	-3.2	20	61	0
tert-Butylbenzene	1.89	1.944	-	-2.9	20	61	-.01
1,2,4-Trimethylbenzene	2.208	2.328	-	-5.4	20	63	-.01
sec-Butylbenzene	2.757	3.014	-	-9.3	20	64	-.01
p-Isopropyltoluene	2.446	2.566	-	-4.9	20	62	-.01
1,3-Dichlorobenzene	1.298	1.256	-	3.2	20	59	-.01
1,4-Dichlorobenzene	1.325	1.263	-	4.7	20	59	-.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : VOA129
Lab File ID : V29230721N01
Sample No : WG1806697-2
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/21/23 18:37
Init. Calib. Date(s) : 03/08/23 03/08/23
Init. Calib. Times : 18:23 23:35

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.493	1.565	-	-4.8	20	62	-0.1
n-Butylbenzene	2.139	2.41	-	-12.7	20	66	-0.1
1,2-Dichlorobenzene	1.243	1.177	-	5.3	20	58	-0.1
1,2,4,5-Tetramethylbenzene	2.34	2.381	-	-1.8	20	61	-0.1
1,2-Dibromo-3-chloropropan	0.126	0.098	-	22.2*	20	50	-0.1
1,3,5-Trichlorobenzene	1.008	1.096	-	-8.7	20	65	-0.1
Hexachlorobutadiene	0.501	0.586	-	-17	20	68	-0.1
1,2,4-Trichlorobenzene	0.941	0.975	-	-3.6	20	63	-0.2
Naphthalene	2.181	1.848	-	15.3	20	53	-0.1
1,2,3-Trichlorobenzene	0.869	0.876	-	-0.8	20	61	-0.2

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N01.D
 Acq On : 21 Jul 2023 06:37 pm
 Operator : VOA129:LAC
 Sample : WG1806697-2
 Misc : WG1806697,ICAL19799
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 19:01:10 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	58	0.00
2 TP Dichlorodifluoromethane	0.217	0.228	-5.1	62	0.00
3 TP Chloromethane	0.309	0.230	25.6#	44#	0.00
4 TC Vinyl chloride	0.255	0.250	2.0	56	0.00
5 TP Bromomethane	0.132	0.189	-43.2#	89	0.00
6 TP Chloroethane	0.144	0.158	-9.7	63	0.00
7 TP Trichlorofluoromethane	0.297	0.352	-18.5	66	0.00
8 TP Ethyl ether	0.099	0.108	-9.1	66	0.00
10 TC 1,1-Dichloroethene	0.179	0.210	-17.3	68	0.00
11 TP Carbon disulfide	0.636	0.700	-10.1	63	0.00
12 TP Freon-113	0.197	0.233	-18.3	66	0.00
14 TP Acrolein	0.041	0.041	0.0	73	0.00
15 TP Methylene chloride	0.233	0.247	-6.0	63	0.00
17 TP Acetone	* 40.000	37.975	5.1	66	-0.01
18 TP trans-1,2-Dichloroethene	0.219	0.242	-10.5	64	0.00
19 TP Methyl acetate	0.165	0.145	12.1	53	0.00
20 TP Methyl tert-butyl ether	0.548	0.598	-9.1	63	0.00
21 TP tert-Butyl alcohol	0.036	0.028	22.2#	54	-0.01
22 TP Diisopropyl ether	0.873	0.762	12.7	50#	-0.01
23 TP 1,1-Dichloroethane	0.422	0.462	-9.5	63	0.00
24 TP Halothane	0.176	0.180	-2.3	59	0.00
25 TP Acrylonitrile	0.083	0.070	15.7	51	0.00
26 TP Ethyl tert-butyl ether	0.807	0.770	4.6	54	0.00
27 TP Vinyl acetate	0.566	0.400	29.3#	42#	-0.01
28 TP cis-1,2-Dichloroethene	0.244	0.257	-5.3	61	0.00
29 TP 2,2-Dichloropropane	0.344	0.372	-8.1	63	0.00
30 TP Bromochloromethane	0.120	0.117	2.5	55	0.00
31 TP Cyclohexane	0.462	0.513	-11.0	60	0.00
32 TC Chloroform	0.390	0.428	-9.7	62	0.00
33 TP Ethyl acetate	0.262	0.199	24.0#	45#	0.00
34 TP Carbon tetrachloride	0.309	0.332	-7.4	61	-0.01
35 TP Tetrahydrofuran	0.093	0.069	25.8#	47#	0.00
36 S Dibromofluoromethane	0.263	0.248	5.7	56	0.00
37 TP 1,1,1-Trichloroethane	0.327	0.388	-18.7	65	0.00
39 TP 2-Butanone	0.147	0.092	37.4#	40#	0.00
40 TP 1,1-Dichloropropene	0.284	0.335	-18.0	63	0.00
41 TP Benzene	0.835	0.922	-10.4	61	0.00
42 TP tert-Amyl methyl ether	0.654	0.608	7.0	53	-0.01
43 S 1,2-Dichloroethane-d4	0.292	0.281	3.8	57	-0.01

Evaluate Continuing Calibration Report

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N01.D
 Acq On : 21 Jul 2023 06:37 pm
 Operator : VOA129:LAC
 Sample : WG1806697-2
 Misc : WG1806697,ICAL19799
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 19:01:10 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TP 1,2-Dichloroethane	0.321	0.323	-0.6	60	0.00
47 TP Methyl cyclohexane	0.394	0.439	-11.4	61	-0.01
48 TP Trichloroethene	0.238	0.276	-16.0	63	-0.01
50 TP Dibromomethane	0.145	0.136	6.2	57	-0.01
51 TC 1,2-Dichloropropane	0.270	0.265	1.9	57	-0.01
53 TP 2-Chloroethyl vinyl ether	0.177	0.140	20.9#	48#	0.00
54 TP Bromodichloromethane	0.312	0.321	-2.9	57	-0.01
57 TP 1,4-Dioxane	0.00269	0.00240#	10.8	55	-0.01
58 TP cis-1,3-Dichloropropene	0.381	0.366	3.9	54	0.00
59 I Chlorobenzene-d5	1.000	1.000	0.0	60	0.00
60 S Toluene-d8	1.300	1.299	0.1	60	-0.01
61 TC Toluene	0.737	0.747	-1.4	61	-0.01
62 TP 4-Methyl-2-pentanone	0.142	0.111	21.8#	49#	-0.01
63 TP Tetrachloroethene	* 40.000	40.250	-0.6	63	-0.01
65 TP trans-1,3-Dichloropropene	0.465	0.428	8.0	54	0.00
67 TP Ethyl methacrylate	0.394	0.316	19.8	48#	-0.01
68 TP 1,1,2-Trichloroethane	0.222	0.209	5.9	58	-0.01
69 TP Chlorodibromomethane	0.321	0.286	10.9	52	-0.01
70 TP 1,3-Dichloropropane	0.444	0.426	4.1	57	-0.01
71 TP 1,2-Dibromoethane	0.270	0.253	6.3	55	0.00
72 TP 2-Hexanone	0.272	0.174	36.0#	42#	0.00
73 TP Chlorobenzene	0.832	0.824	1.0	58	-0.01
74 TC Ethylbenzene	1.377	1.472	-6.9	62	-0.01
75 TP 1,1,1,2-Tetrachloroethane	0.305	0.299	2.0	56	-0.01
76 TP p/m Xylene	0.533	0.558	-4.7	60	0.00
77 TP o Xylene	0.519	0.533	-2.7	60	-0.01
78 TP Styrene	0.867	0.905	-4.4	59	-0.01
79 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	62	0.00
80 TP Bromoform	0.408	0.362	11.3	54	0.00
82 TP Isopropylbenzene	2.521	2.682	-6.4	63	-0.01
83 S 4-Bromofluorobenzene	0.899	0.941	-4.7	65	0.00
84 TP Bromobenzene	0.671	0.642	4.3	59	-0.01
85 TP n-Propylbenzene	3.006	3.193	-6.2	62	-0.01
86 TP 1,4-Dichlorobutane	0.974	0.872	10.5	56	0.00
87 TP 1,1,2,2-Tetrachloroethane	0.624	0.526	15.7	53	0.00
88 TP 4-Ethyltoluene	2.574	2.701	-4.9	63	-0.01
89 TP 2-Chlorotoluene	1.795	1.851	-3.1	63	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N01.D
 Acq On : 21 Jul 2023 06:37 pm
 Operator : VOA129:LAC
 Sample : WG1806697-2
 Misc : WG1806697,ICAL19799
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 19:01:10 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	2.222	2.350	-5.8	63	-0.01
91 TP	1,2,3-Trichloropropane	0.483	0.437	9.5	54	-0.01
92 TP	trans-1,4-Dichloro-2-butene	0.219	0.191	12.8	52	0.00
93 TP	4-Chlorotoluene	1.921	1.982	-3.2	61	0.00
94 TP	tert-Butylbenzene	1.890	1.944	-2.9	61	-0.01
97 TP	1,2,4-Trimethylbenzene	2.208	2.328	-5.4	63	-0.01
98 TP	sec-Butylbenzene	2.757	3.014	-9.3	64	-0.01
99 TP	p-Isopropyltoluene	2.446	2.566	-4.9	62	-0.01
100 TP	1,3-Dichlorobenzene	1.298	1.256	3.2	59	-0.01
101 TP	1,4-Dichlorobenzene	1.325	1.263	4.7	59	-0.01
102 TP	p-Diethylbenzene	1.493	1.565	-4.8	62	-0.01
103 TP	n-Butylbenzene	2.139	2.410	-12.7	66	-0.01
104 TP	1,2-Dichlorobenzene	1.243	1.177	5.3	58	-0.01
105 TP	1,2,4,5-Tetramethylbenzene	2.340	2.381	-1.8	61	-0.01
106 TP	1,2-Dibromo-3-chloropropane	0.126	0.098	22.2#	50	-0.01
107 TP	1,3,5-Trichlorobenzene	1.008	1.096	-8.7	65	-0.01
108 TP	Hexachlorobutadiene	0.501	0.586	-17.0	68	-0.01
109 TP	1,2,4-Trichlorobenzene	0.941	0.975	-3.6	63	-0.02
110 TP	Naphthalene	2.181	1.848	15.3	53	-0.01
111 TP	1,2,3-Trichlorobenzene	0.869	0.876	-0.8	61	-0.02

* Evaluation of CC level amount vs concentration.

(#) = Out of Range SPCC's out = 1 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N01.D
 Acq On : 21 Jul 2023 06:37 pm
 Operator : VOA129:LAC
 Sample : WG1806697-2
 Misc : WG1806697,ICAL19799
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 19:01:10 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	5.893	96	283796	20.000	ug/L	0.00	
Standard Area 1 = 283796			Recovery = 100.00%				
59) Chlorobenzene-d5	8.735	117	220595	20.000	ug/L	0.00	
Standard Area 1 = 220595			Recovery = 100.00%				
79) 1,4-Dichlorobenzene-d4	10.187	152	120931	20.000	ug/L	0.00	
Standard Area 1 = 120931			Recovery = 100.00%				
System Monitoring Compounds							
36) Dibromofluoromethane	4.960	113	70366	18.845	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery = 94.22%				
43) 1,2-Dichloroethane-d4	5.558	65	79696	19.223	ug/L	-0.01	
Spiked Amount 20.000	Range 70 - 130		Recovery = 96.11%				
60) Toluene-d8	7.524	98	286489	19.980	ug/L	-0.01	
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.90%				
83) 4-Bromofluorobenzene	9.527	95	113799	20.936	ug/L	0.00	
Spiked Amount 20.000	Range 70 - 130		Recovery = 104.68%				
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.069	85	129515	42.008	ug/L	#	94
3) Chloromethane	1.222	50	130418	29.775	ug/L		99
4) Vinyl chloride	1.269	62	141680	39.190	ug/L		96
5) Bromomethane	1.499	94	107418	57.149	ug/L		100
6) Chloroethane	1.599	64	89732	44.026	ug/L		98
7) Trichlorofluoromethane	1.714	101	199551	47.282	ug/L		95
8) Ethyl ether	1.977	74	61310	43.504	ug/L		76
10) 1,1-Dichloroethene	2.129	96	119228	46.953	ug/L	#	73
11) Carbon disulfide	2.134	76	397303	44.030	ug/L		96
12) Freon-113	2.176	101	132073	47.254	ug/L		92
14) Acrolein	2.433	56	23480	40.733	ug/L		87
15) Methylene chloride	2.679	84	140123	42.419	ug/L		74
17) Acetone	2.732	43	35063	37.975	ug/L	#	83
18) trans-1,2-Dichloroethene	2.852	96	137451	44.301	ug/L		85
19) Methyl acetate	2.894	43	82385	35.162	ug/L	#	90
20) Methyl tert-butyl ether	3.004	73	339453	43.649	ug/L		96
21) tert-Butyl alcohol	3.167	59	78769	155.891	ug/L	#	76
22) Diisopropyl ether	3.497	45	432587	34.906	ug/L	#	96
23) 1,1-Dichloroethane	3.576	63	262352	43.843	ug/L		99
24) Halothane	3.743	117	102027	40.877	ug/L		99
25) Acrylonitrile	3.628	53	39889	33.739	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N01.D
 Acq On : 21 Jul 2023 06:37 pm
 Operator : VOA129:LAC
 Sample : WG1806697-2
 Misc : WG1806697,ICAL19799
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 19:01:10 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.011	59	437121	38.169	ug/L	93
27) Vinyl acetate	3.990	43	227184	28.284	ug/L #	94
28) cis-1,2-Dichloroethene	4.341	96	145626	42.065	ug/L #	77
29) 2,2-Dichloropropane	4.472	77	211339	43.354	ug/L	91
30) Bromochloromethane	4.593	128	66482	38.893	ug/L #	63
31) Cyclohexane	4.588	56	291056	44.393	ug/L	85
32) Chloroform	4.740	83	242906	43.924	ug/L	94
33) Ethyl acetate	4.955	43	112831	30.301	ug/L #	93
34) Carbon tetrachloride	4.865	117	188724	43.010	ug/L	98
35) Tetrahydrofuran	4.923	42	39431	29.793	ug/L #	82
37) 1,1,1-Trichloroethane	4.949	97	220115	47.435	ug/L #	96
39) 2-Butanone	5.122	43	52118	24.905	ug/L #	42
40) 1,1-Dichloropropene	5.117	75	190088	47.187	ug/L	96
41) Benzene	5.400	78	523299	44.158	ug/L	93
42) tert-Amyl methyl ether	5.610	73	344951	37.192	ug/L	94
44) 1,2-Dichloroethane	5.636	62	183237	40.272	ug/L	97
47) Methyl cyclohexane	6.061	83	249386	44.602	ug/L	85
48) Trichloroethene	6.082	95	156645	46.417	ug/L	99
50) Dibromomethane	6.507	93	77097	37.433	ug/L	90
51) 1,2-Dichloropropane	6.611	63	150185	39.234	ug/L	92
53) 2-Chloroethyl vinyl ether	7.330	63	79740	31.831	ug/L	90
54) Bromodichloromethane	6.716	83	182141	41.206	ug/L	99
57) 1,4-Dioxane	6.931	88	68249	1789.961	ug/L #	85
58) cis-1,3-Dichloropropene	7.356	75	207914	38.470	ug/L #	86
61) Toluene	7.571	92	329468	40.540	ug/L	98
62) 4-Methyl-2-pentanone	7.922	58	49139	31.265	ug/L #	86
63) Tetrachloroethene	7.907	166	158546	40.250	ug/L	88
65) trans-1,3-Dichloropropene	7.948	75	188979	36.840	ug/L	87
67) Ethyl methacrylate	8.111	69	139333	32.068	ug/L	99
68) 1,1,2-Trichloroethane	8.069	83	92229	37.705	ug/L	96
69) Chlorodibromomethane	8.200	129	126151	35.631	ug/L	96
70) 1,3-Dichloropropane	8.268	76	187739	38.342	ug/L	99
71) 1,2-Dibromoethane	8.357	107	111646	37.466	ug/L	99
72) 2-Hexanone	8.562	43	76926	25.597	ug/L	90
73) Chlorobenzene	8.745	112	363469	39.621	ug/L	93
74) Ethylbenzene	8.777	91	649476	42.750	ug/L	100
75) 1,1,1,2-Tetrachloroethane	8.798	131	131753	39.201	ug/L	95
76) p/m Xylene	8.882	106	492647	83.779	ug/L	99
77) o Xylene	9.154	106	470480	82.173	ug/L	96
78) Styrene	9.191	104	798351	83.451	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N01.D
 Acq On : 21 Jul 2023 06:37 pm
 Operator : VOA129:LAC
 Sample : WG1806697-2
 Misc : WG1806697,ICAL19799
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 19:01:10 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Bromoform	9.202	173	87649	35.501	ug/L	97
82) Isopropylbenzene	9.359	105	648789	42.564	ug/L	99
84) Bromobenzene	9.584	156	155254	38.287	ug/L	97
85) n-Propylbenzene	9.611	91	772259	42.491	ug/L	98
86) 1,4-Dichlorobutane	9.616	55	210820	35.800	ug/L #	90
87) 1,1,2,2-Tetrachloroethane	9.658	83	127215	33.716	ug/L	100
88) 4-Ethyltoluene	9.679	105	653305	41.973	ug/L	99
89) 2-Chlorotoluene	9.700	91	447742M6	41.242	ug/L	
90) 1,3,5-Trimethylbenzene	9.731	105	568260	42.289	ug/L	95
91) 1,2,3-Trichloropropane	9.726	75	105766	36.206	ug/L	99
92) trans-1,4-Dichloro-2-b...	9.757	53	46209	34.909	ug/L #	87
93) 4-Chlorotoluene	9.799	91	479351	41.268	ug/L	98
94) tert-Butylbenzene	9.915	119	470207	41.149	ug/L	95
97) 1,2,4-Trimethylbenzene	9.957	105	562964	42.160	ug/L	98
98) sec-Butylbenzene	10.019	105	729056	43.727	ug/L	99
99) p-Isopropyltoluene	10.103	119	620574	41.961	ug/L	98
100) 1,3-Dichlorobenzene	10.140	146	303808	38.701	ug/L	99
101) 1,4-Dichlorobenzene	10.193	146	305501	38.127	ug/L	99
102) p-Diethylbenzene	10.313	119	378632	41.932	ug/L	96
103) n-Butylbenzene	10.345	91	582843	45.057	ug/L	99
104) 1,2-Dichlorobenzene	10.434	146	284716	37.893	ug/L	98
105) 1,2,4,5-Tetramethylben...	10.769	119	575829	40.700	ug/L	96
106) 1,2-Dibromo-3-chloropr...	10.885	155	23680	31.064	ug/L	89
107) 1,3,5-Trichlorobenzene	10.906	180	265096	43.494	ug/L	93
108) Hexachlorobutadiene	11.252	225	141712	46.800	ug/L	95
109) 1,2,4-Trichlorobenzene	11.262	180	235833	41.436	ug/L	99
110) Naphthalene	11.440	128	446938	33.894	ug/L	100
111) 1,2,3-Trichlorobenzene	11.545	180	211893	40.313	ug/L	99

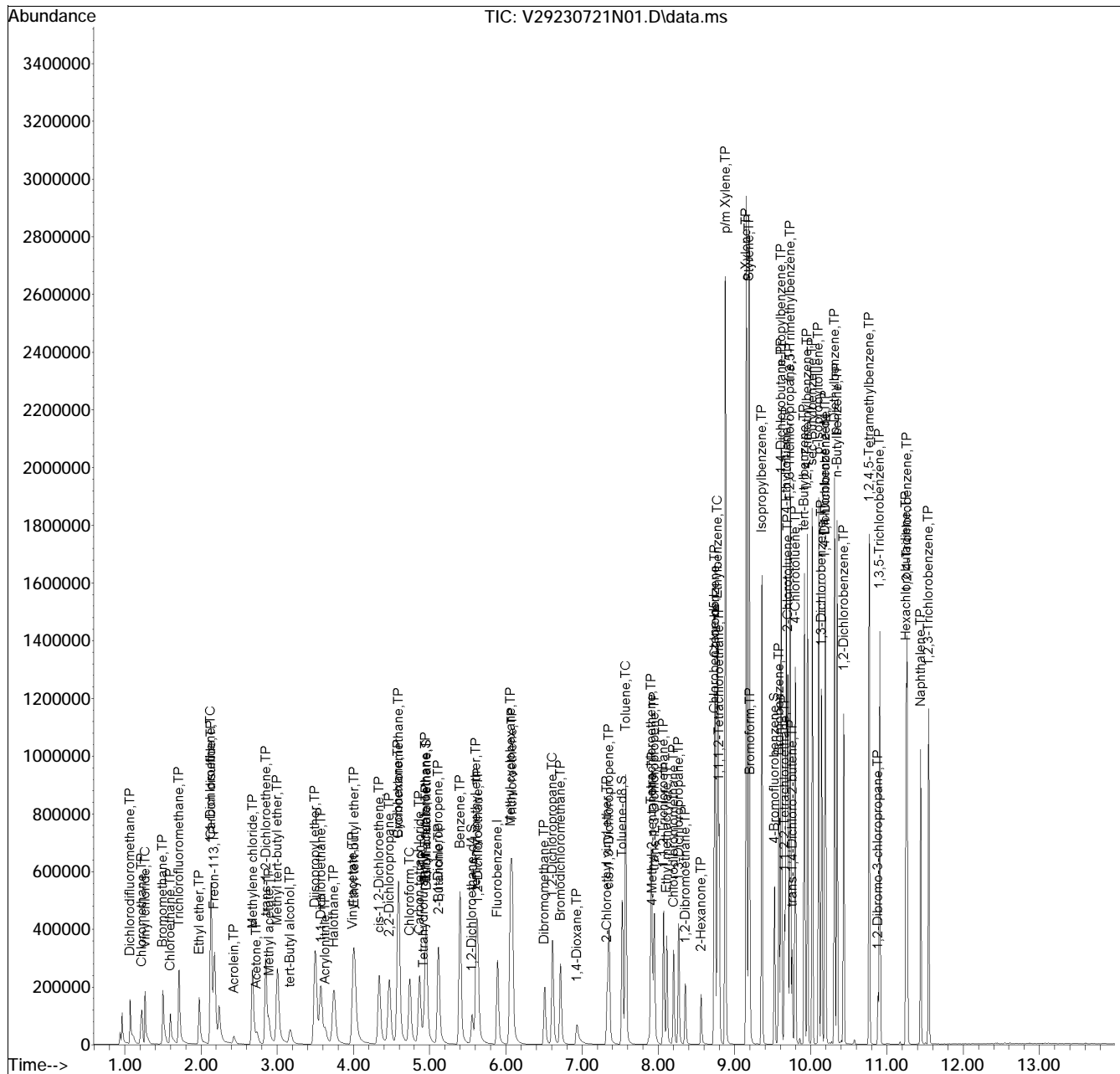
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N01.D
 Acq On : 21 Jul 2023 06:37 pm
 Operator : VOA129:LAC
 Sample : WG1806697-2
 Misc : WG1806697,ICAL19799
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 19:01:10 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

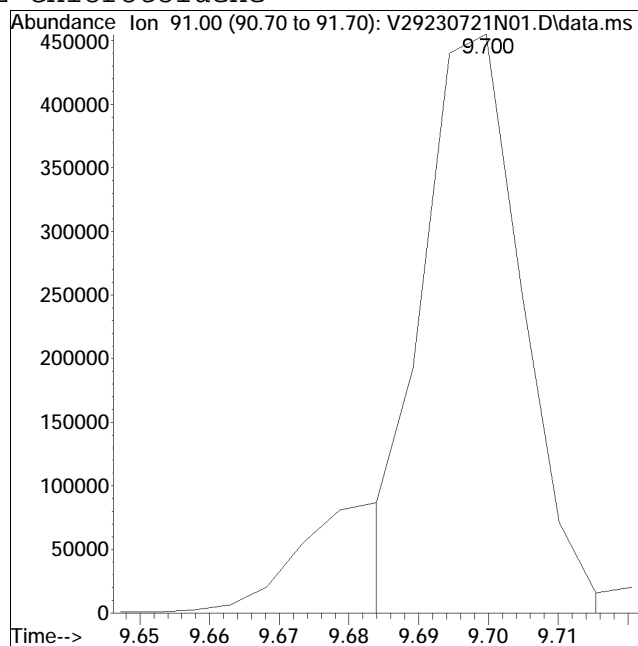
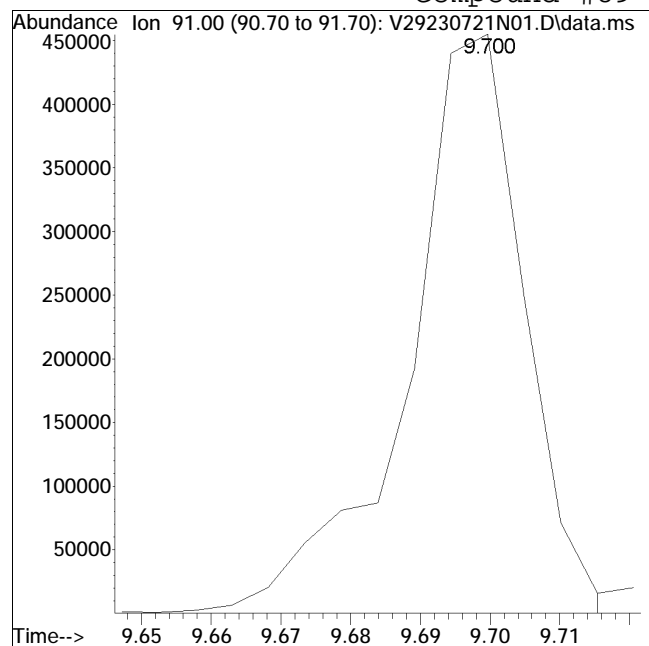
Sub List : 8260-CurveSoil - Megamix plus Diox21N01.D•



Manual Integration Report

Data Path : K:\VOA129\2023\230721N\ QMethod : V129_230308N_8260.m
Data File : V29230721N01.D Operator : VOA129:LAC
Date Inj'd : 7/21/2023 6:37 pm Instrument : VOA 129
Sample : WG1806697-2 Quant Date : 7/21/2023 7:00 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 525741

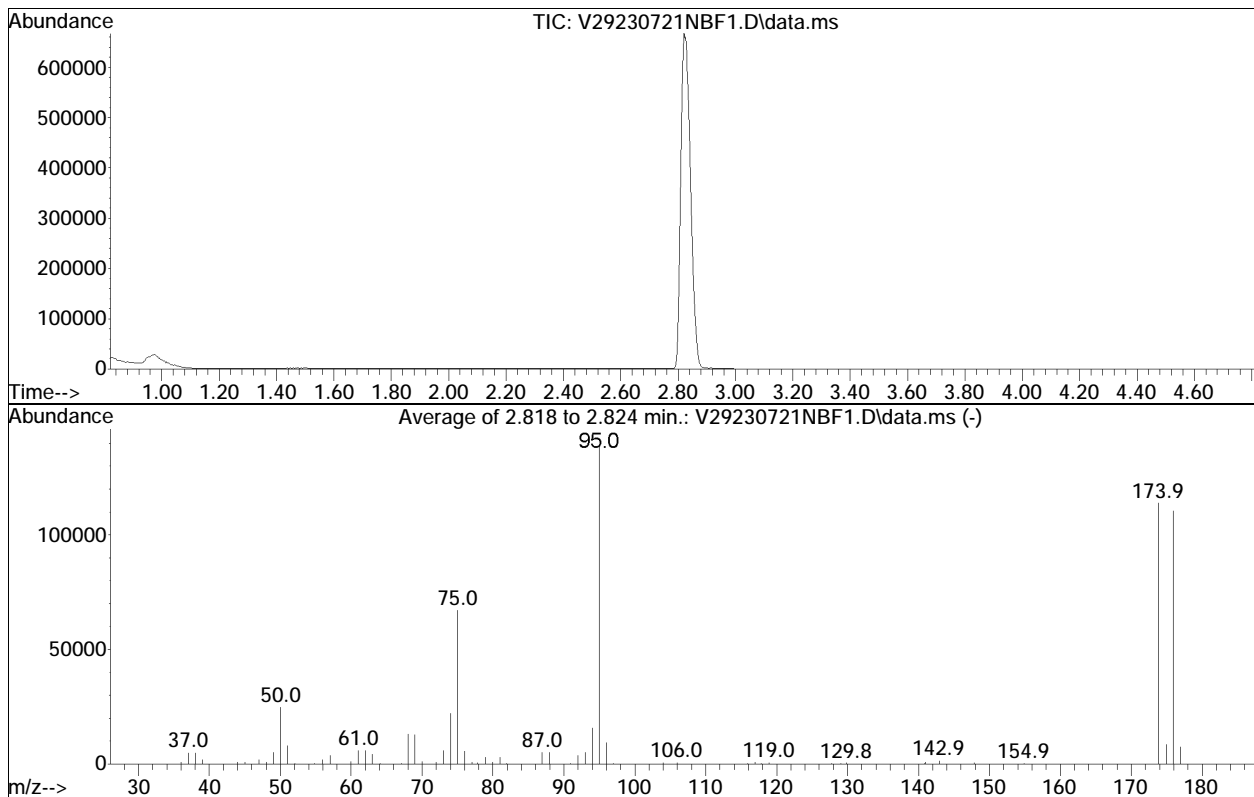
Manual Peak Response = 447742 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721NBF1.D
 Acq On : 21 Jul 2023 06:16 pm
 Operator : VOA129:LAC
 Sample : WG1806697-1
 Misc : WG1806697,ICAL19799
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Mar 09 17:16:29 2023



AutoFind: Scans 800, 801, 802; Background Corrected with Scan 786

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	24672	PASS
75	95	30	60	48.2	67216	PASS
95	95	100	100	100.0	139392	PASS
96	95	5	9	6.7	9298	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	81.8	113955	PASS
175	174	5	9	7.5	8585	PASS
176	174	95	101	97.1	110645	PASS
177	176	5	9	6.8	7479	PASS

Volatiles Raw QC Data

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N05.D
 Acq On : 21 Jul 2023 08:00 pm
 Operator : VOA129:LAC
 Sample : WG1806697-5,31,5,5
 Misc : WG1806697,ICAL19799
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 21 20:26:26 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.893	96	234240	20.000	ug/L	0.00
Standard Area 1 = 283796			Recovery =	82.54%		
59) Chlorobenzene-d5	8.735	117	183969	20.000	ug/L	0.00
Standard Area 1 = 220595			Recovery =	83.40%		
79) 1,4-Dichlorobenzene-d4	10.187	152	102564	20.000	ug/L	0.00
Standard Area 1 = 120931			Recovery =	84.81%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.965	113	63839	20.714	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	103.57%		
43) 1,2-Dichloroethane-d4	5.563	65	75189	21.973	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	109.86%		
60) Toluene-d8	7.529	98	236923	19.813	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.06%		
83) 4-Bromofluorobenzene	9.527	95	95600	20.737	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	103.68%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	1.500	94	653	0.421	ug/L #	75
6) Chloroethane	1.699	64	48	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	2.040	96	48	N.D.		
11) Carbon disulfide	2.123	76	285	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	2.674	84	1911	0.701	ug/L	76
17) Acetone	2.753	43	5102	4.115	ug/L #	87
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	4.740	83	59	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		
37) 1,1,1-Trichloroethane	0.000		0	N.D.		

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N05.D
 Acq On : 21 Jul 2023 08:00 pm
 Operator : VOA129:LAC
 Sample : WG1806697-5,31,5,5
 Misc : WG1806697,ICAL19799
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 21 20:26:26 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2-Butanone	0.000		0		N.D.	d
41) Benzene	5.406	78	72		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.061	95	48		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.571	92	539	0.080	ug/L	81
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	7.875	75	172		N.D.	
68) 1,1,2-Trichloroethane	8.085	83	53		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	8.578	43	164		N.D.	
73) Chlorobenzene	8.745	112	327		N.D.	
74) Ethylbenzene	8.787	91	838		N.D.	
76) p/m Xylene	8.882	106	505	0.103	ug/L	89
77) o Xylene	9.165	106	163		N.D.	
78) Styrene	9.202	104	1561	0.196	ug/L	93
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	9.375	105	50		N.D.	
85) n-Propylbenzene	9.626	91	196		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	9.736	105	151		N.D.	
94) tert-Butylbenzene	9.925	119	63		N.D.	
97) 1,2,4-Trimethylbenzene	9.967	105	321		N.D.	
98) sec-Butylbenzene	10.020	105	50		N.D.	
99) p-Isopropyltoluene	10.109	119	163		N.D.	
100) 1,3-Dichlorobenzene	10.151	146	165		N.D.	
101) 1,4-Dichlorobenzene	10.193	146	411		N.D.	
103) n-Butylbenzene	10.182	91	327		N.D.	
104) 1,2-Dichlorobenzene	10.434	146	172		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	11.278	180	337		N.D.	
110) Naphthalene	11.446	128	1820	0.163	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N05.D
Acq On : 21 Jul 2023 08:00 pm
Operator : VOA129:LAC
Sample : WG1806697-5,31,5,5
Misc : WG1806697,ICAL19799
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 21 20:26:26 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

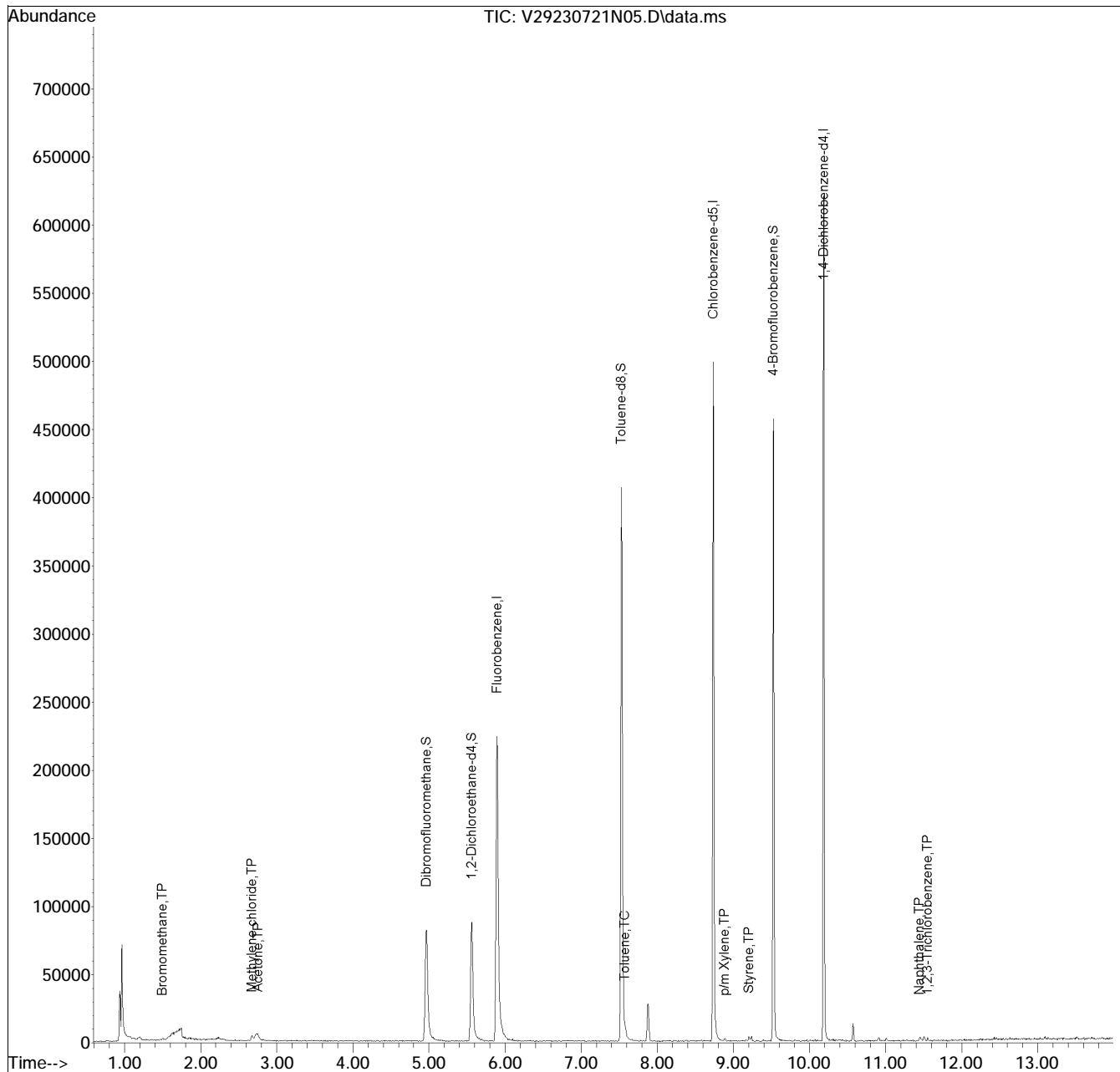
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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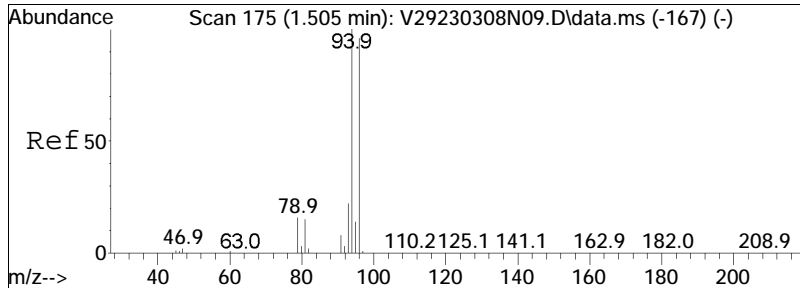
Quantitation Report (QT/LSC Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N05.D
Acq On : 21 Jul 2023 08:00 pm
Operator : VOA129:LAC
Sample : WG1806697-5,31,5,5
Misc : WG1806697,ICAL19799
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 21 20:26:26 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

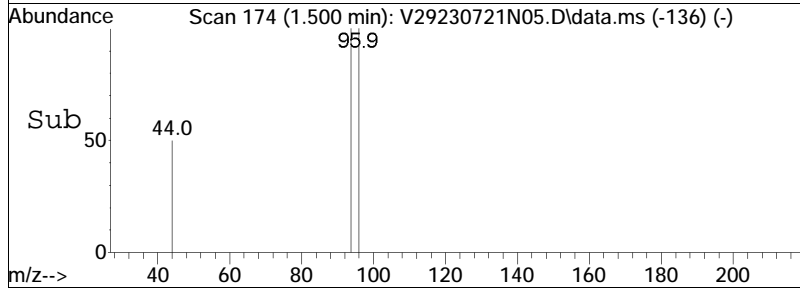
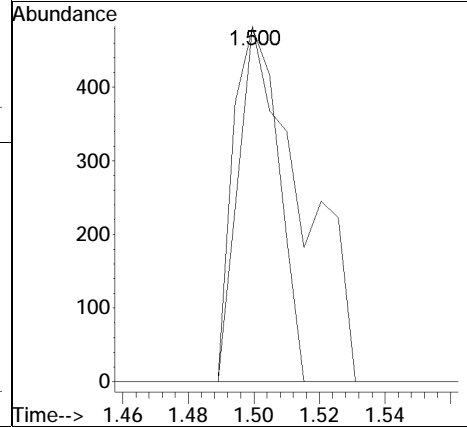
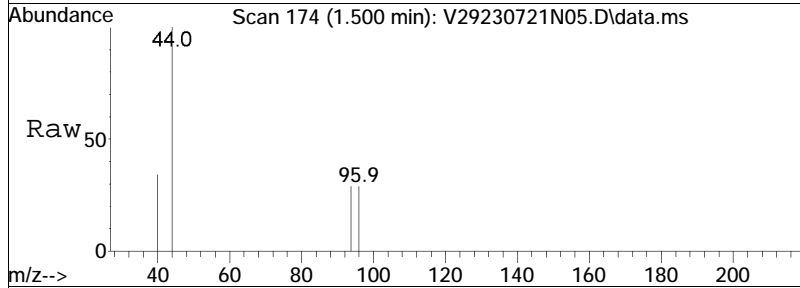
Sub List : 8260-CurveSoil - Megamix plus Diox21N01.D•

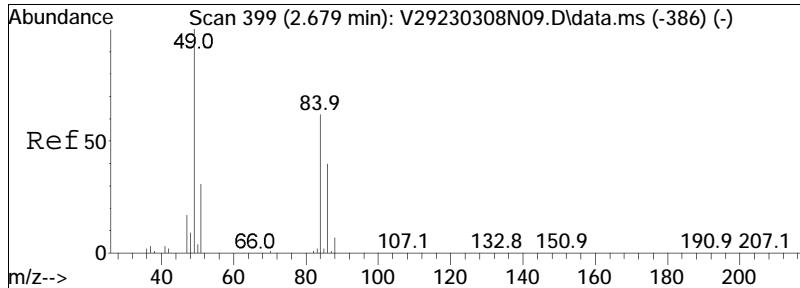




#5
 Bromomethane
 Concen: 0.42 ug/L
 RT: 1.500 min Scan# 174
 Delta R.T. -0.000 min
 Lab File: V29230721N05.D
 Acq: 21 Jul 2023 08:00 pm

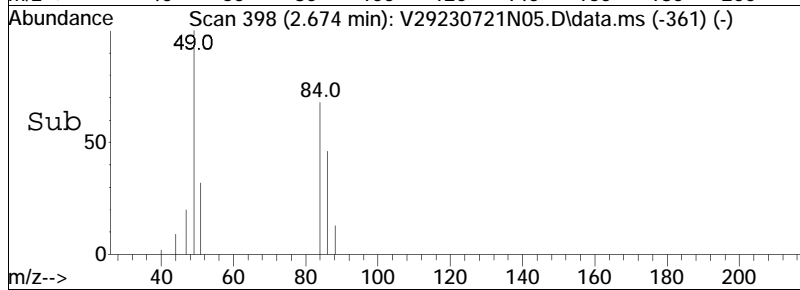
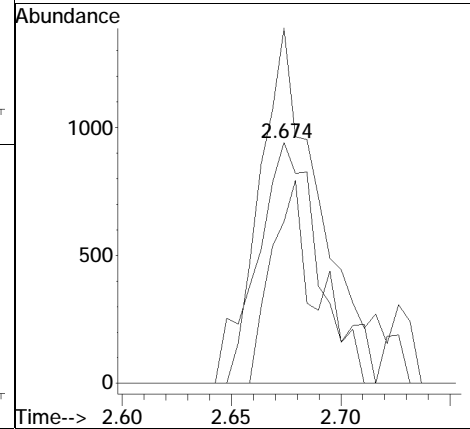
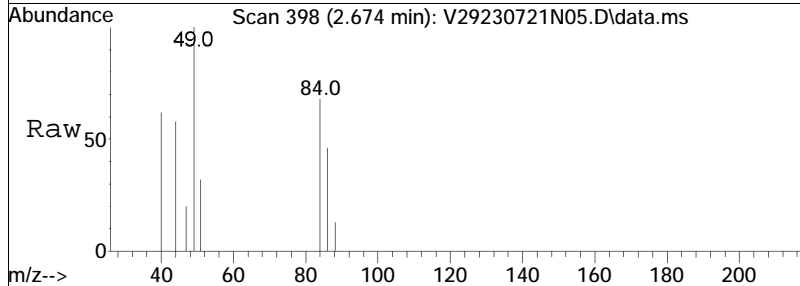
Tgt Ion	Resp	Lower	Upper
94	100		
96	70.9	75.6	115.6#

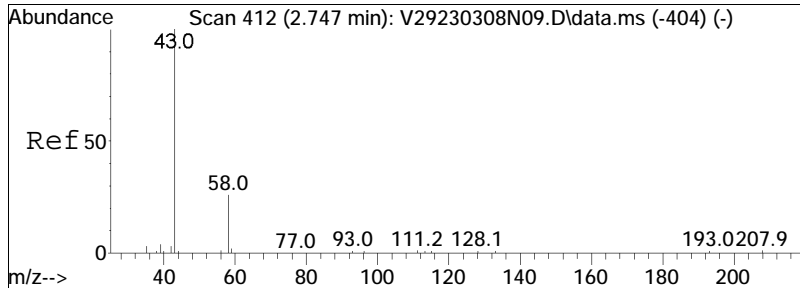




#15
 Methylene chloride
 Concen: 0.70 ug/L
 RT: 2.674 min Scan# 398
 Delta R.T. -0.005 min
 Lab File: V29230721N05.D
 Acq: 21 Jul 2023 08:00 pm

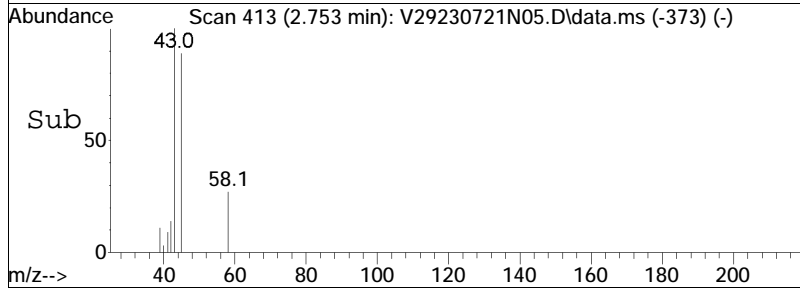
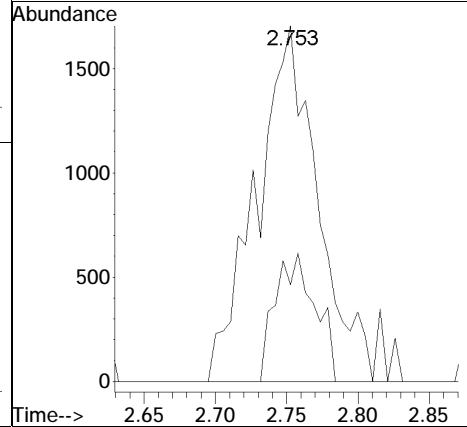
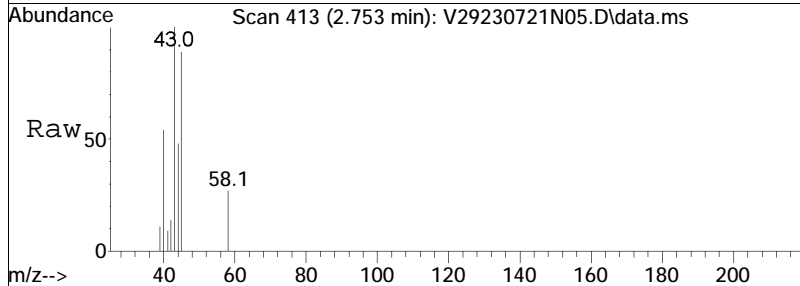
Tgt Ion:	84	Resp:	1911
Ion Ratio	Lower	Upper	
84	100		
86	60.4	40.4	83.8
49	139.6	120.0	249.2

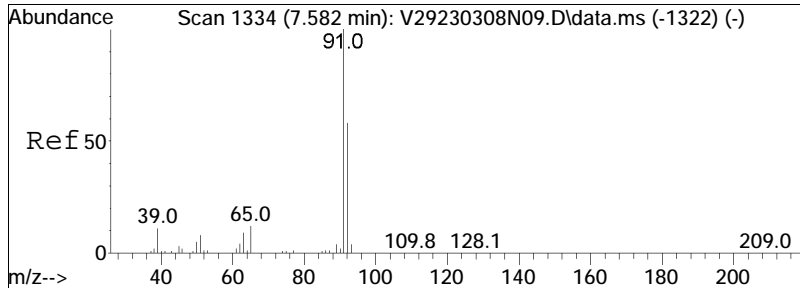




#17
 Acetone
 Concen: 4.12 ug/L
 RT: 2.753 min Scan# 413
 Delta R.T. 0.011 min
 Lab File: V29230721N05.D
 Acq: 21 Jul 2023 08:00 pm

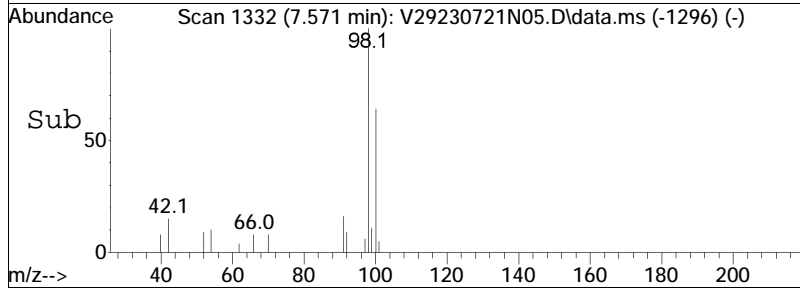
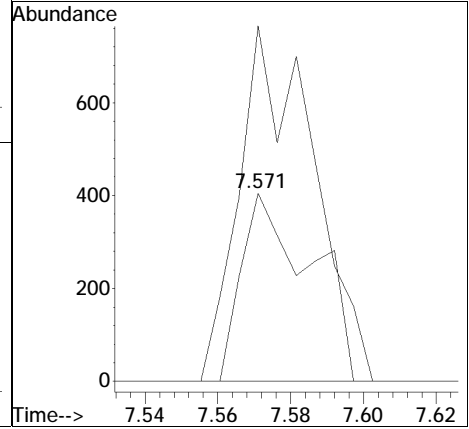
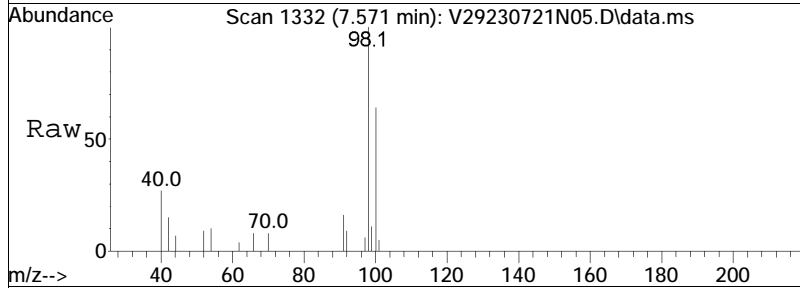
Tgt Ion:	43	58	Resp:	5102
Ion Ratio	100	23.4	Lower	Upper
			24.2	36.4#

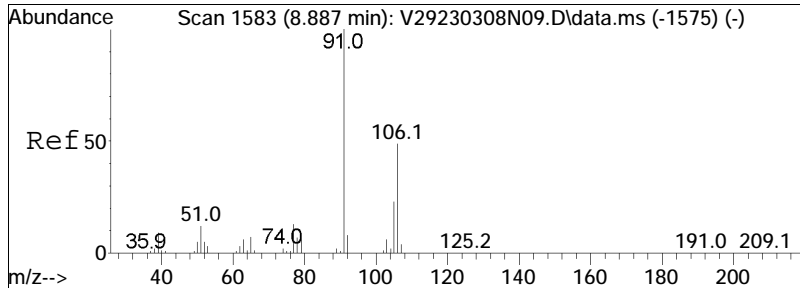




#61
 Toluene
 Concen: 0.08 ug/L
 RT: 7.571 min Scan# 1332
 Delta R.T. -0.011 min
 Lab File: V29230721N05.D
 Acq: 21 Jul 2023 08:00 pm

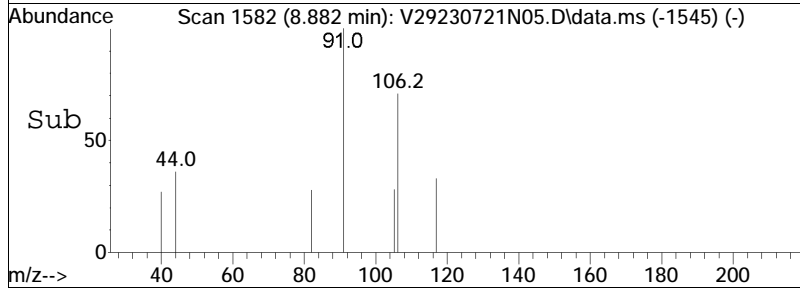
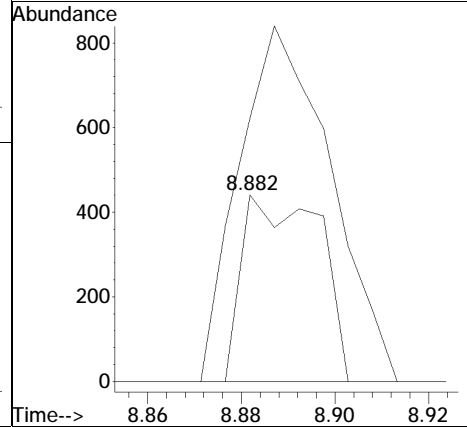
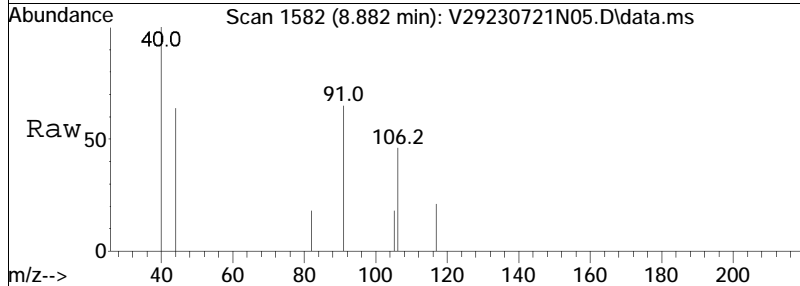
Tgt Ion:	Resp:	Lower	Upper
92	539		
92	100		
91	200.7	139.8	209.6

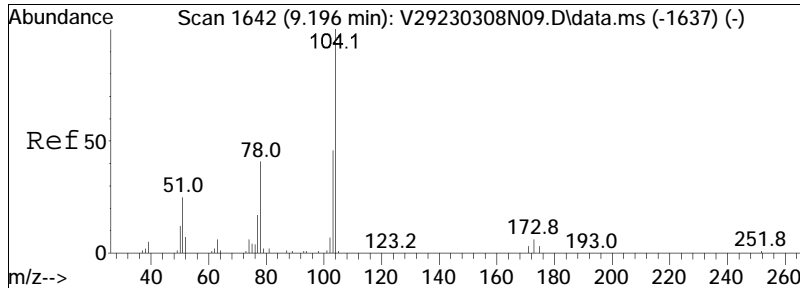




#76
 p/m Xylene
 Concen: 0.10 ug/L
 RT: 8.882 min Scan# 1582
 Delta R.T. -0.005 min
 Lab File: V29230721N05.D
 Acq: 21 Jul 2023 08:00 pm

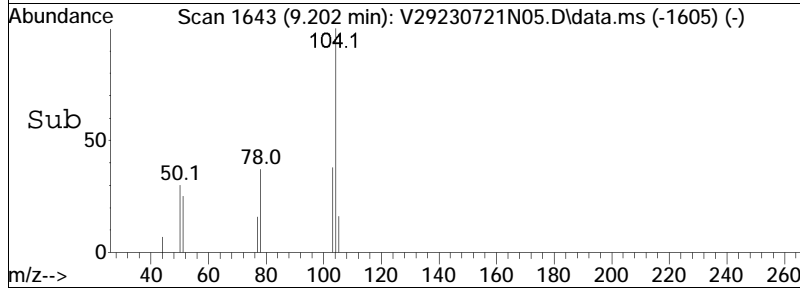
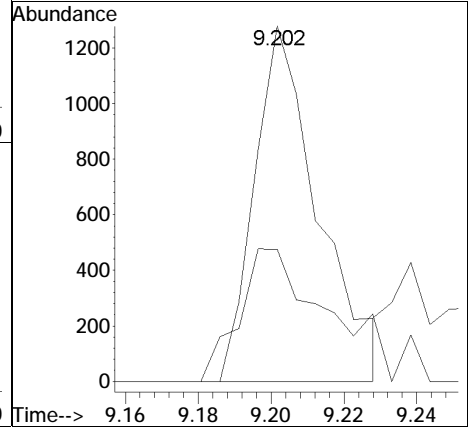
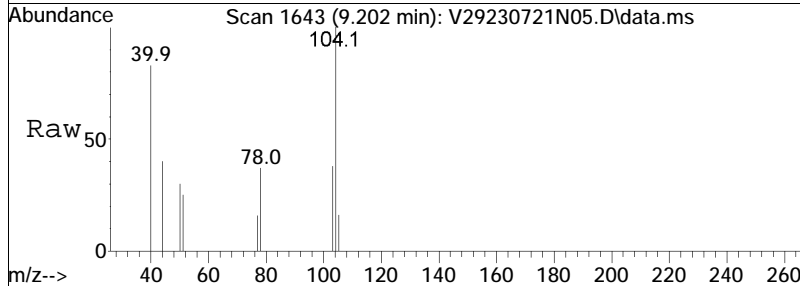
Tgt Ion	Resp	Lower	Upper
106	100		
91	225.7	166.4	249.6

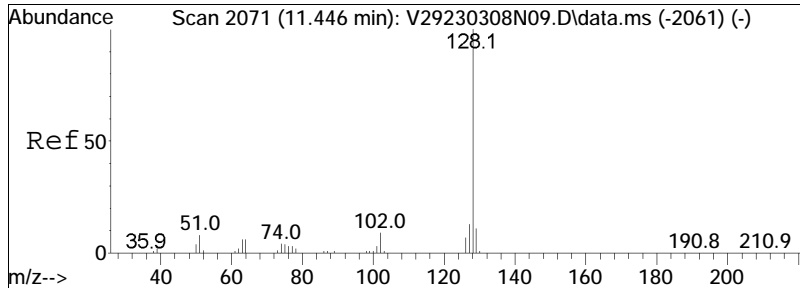




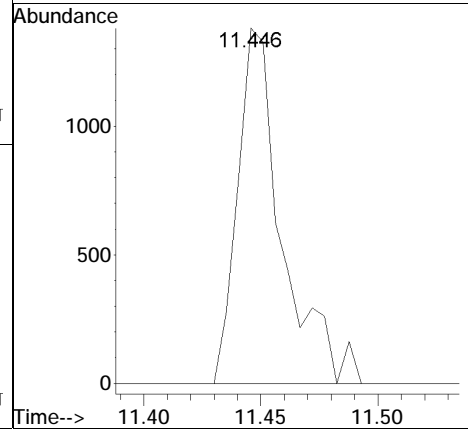
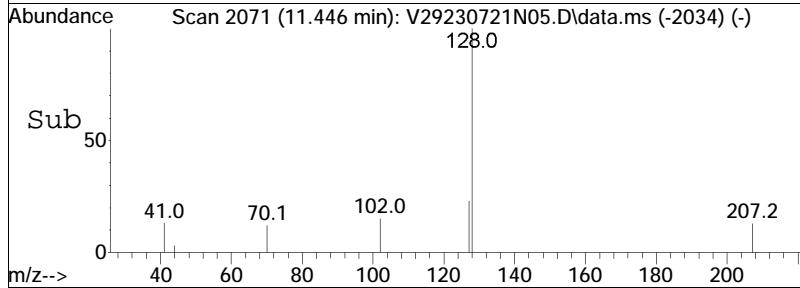
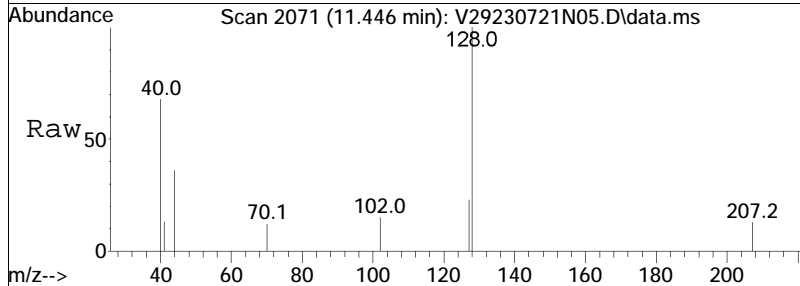
#78
 Styrene
 Concen: 0.20 ug/L
 RT: 9.202 min Scan# 1643
 Delta R.T. -0.000 min
 Lab File: V29230721N05.D
 Acq: 21 Jul 2023 08:00 pm

Tgt Ion	Ratio	Lower	Upper
104	100		
78	54.5	39.8	59.6





#110
 Naphthalene
 Concen: 0.16 ug/L
 RT: 11.446 min Scan# 2071
 Delta R.T. -0.005 min
 Lab File: V29230721N05.D
 Acq: 21 Jul 2023 08:00 pm
 Tgt Ion:128 Resp: 1820



Manual Integration Report

Data Path	: K:\VOA129\2023\230721N\	QMethod	: V129_230308N_8260.m
Data File	: V29230721N05.D	Operator	: VOA129:LAC
Date Inj'd	: 7/21/2023 8:00 pm	Instrument	: VOA 129
Sample	: WG1806697-5,31,5,5	Quant Date	: 7/21/2023 8:25 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N05.D
 Acq On : 21 Jul 2023 08:00 pm
 Operator : VOA129:LAC
 Sample : WG1806697-5,31,5,5
 Misc : WG1806697,ICAL19799
 ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.1 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Title : VOLATILES BY GC/MS

Signal : TIC: V29230721N05.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	0.939	62	67	70	rBV2	36634	44989	7.10%	1.330%
2	0.965	70	72	86	rVB	68715	79156	12.49%	2.341%
3	4.965	822	835	861	rBV3	81685	210752	33.24%	6.232%
4	5.563	939	949	971	rBV	87322	196471	30.99%	5.809%
5	5.893	1003	1012	1042	rBV	223824	497043	78.40%	14.697%
6	7.529	1314	1324	1347	rBV	406627	633985	100.00%	18.746%
7	7.875	1381	1390	1402	rBV	27820	44216	6.97%	1.307%
8	8.735	1547	1554	1576	rBV	498688	574823	90.67%	16.997%
9	9.527	1698	1705	1725	rBV	456924	484177	76.37%	14.317%
10	10.187	1822	1831	1843	rBV	620294	616311	97.21%	18.224%

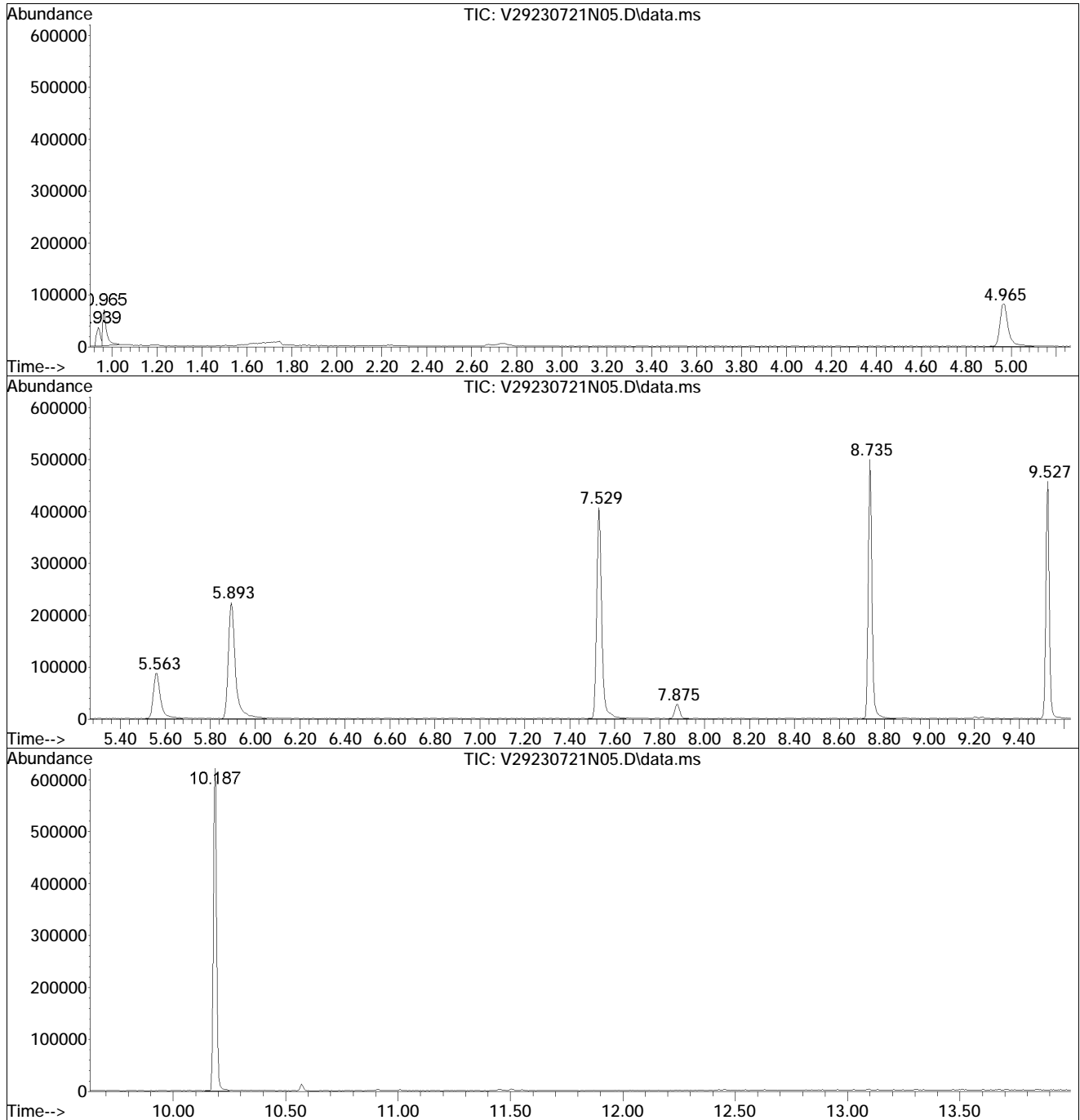
Sum of corrected areas: 3381923

LSC Report - Integrated Chromatogram

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N05.D
Acq On : 21 Jul 2023 08:00 pm
Operator : VOA129:LAC
Sample : WG1806697-5,31,5,5
Misc : WG1806697,ICAL19799
ALS Vial : 5 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p



Library Search Compound Report

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N05.D
Acq On : 21 Jul 2023 08:00 pm
Operator : VOA129:LAC
Sample : WG1806697-5,31,5,5
Misc : WG1806697,ICAL19799
ALS Vial : 5 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

No Library Search Compounds Detected

Tentatively Identified Compound (LSC) summary

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N05.D
Acq On : 21 Jul 2023 08:00 pm
Operator : VOA129:LAC
Sample : WG1806697-5,31,5,5
Misc : WG1806697,ICAL19799
ALS Vial : 5 Sample Multiplier: 1

Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N02.D
 Acq On : 21 Jul 2023 06:57 pm
 Operator : VOA129:LAC
 Sample : WG1806697-3,31,5,5
 Misc : WG1806697,ICAL19799
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 21 20:22:06 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.893	96	272230	20.000	ug/L	0.00
Standard Area 1 = 283796			Recovery =	95.92%		
59) Chlorobenzene-d5	8.735	117	213946	20.000	ug/L	0.00
Standard Area 1 = 220595			Recovery =	96.99%		
79) 1,4-Dichlorobenzene-d4	10.187	152	118437	20.000	ug/L	0.00
Standard Area 1 = 120931			Recovery =	97.94%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.965	113	70201	19.600	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.00%		
43) 1,2-Dichloroethane-d4	5.558	65	80963	20.358	ug/L	-0.01
Spiked Amount 20.000	Range 70 - 130		Recovery =	101.79%		
60) Toluene-d8	7.529	98	277462	19.952	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.76%		
83) 4-Bromofluorobenzene	9.527	95	109937	20.651	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	103.26%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.070	85	113318	38.316	ug/L	# 93
3) Chloromethane	1.222	50	112581	26.795	ug/L	99
4) Vinyl chloride	1.269	62	124079	35.779	ug/L	96
5) Bromomethane	1.500	94	91404	50.695	ug/L	98
6) Chloroethane	1.599	64	75679	38.709	ug/L	98
7) Trichlorofluoromethane	1.714	101	177702	43.894	ug/L	97
10) 1,1-Dichloroethene	2.129	96	104662	42.968	ug/L	# 73
11) Carbon disulfide	2.139	76	350247	40.464	ug/L	97
12) Freon-113	2.176	101	117175	43.704	ug/L	92
15) Methylene chloride	2.679	84	126120	39.802	ug/L	75
17) Acetone	2.737	43	36395	41.350	ug/L	# 85
18) trans-1,2-Dichloroethene	2.852	96	124135	41.709	ug/L	81
19) Methyl acetate	2.894	43	83382	37.100	ug/L	# 89
20) Methyl tert-butyl ether	3.010	73	338534	45.381	ug/L	94
23) 1,1-Dichloroethane	3.576	63	237612	41.396	ug/L	99
28) cis-1,2-Dichloroethene	4.341	96	133228	40.119	ug/L	# 76
31) Cyclohexane	4.593	56	257562	40.954	ug/L	86
32) Chloroform	4.745	83	217441	40.990	ug/L	94
34) Carbon tetrachloride	4.871	117	172587	41.003	ug/L	98
37) 1,1,1-Trichloroethane	4.955	97	198593	44.615	ug/L	# 97

Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N02.D
 Acq On : 21 Jul 2023 06:57 pm
 Operator : VOA129:LAC
 Sample : WG1806697-3,31,5,5
 Misc : WG1806697,ICAL19799
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 21 20:22:06 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2-Butanone	5.128	43	52629	26.218	ug/L	# 40
41) Benzene	5.400	78	468011	41.171	ug/L	94
44) 1,2-Dichloroethane	5.636	62	176764	40.500	ug/L	97
47) Methyl cyclohexane	6.066	83	220642	41.138	ug/L	84
48) Trichloroethene	6.087	95	143918	44.458	ug/L	97
51) 1,2-Dichloropropane	6.617	63	137097	37.337	ug/L	94
54) Bromodichloromethane	6.722	83	169819	40.051	ug/L	97
58) cis-1,3-Dichloropropene	7.356	75	198522	38.293	ug/L	# 86
61) Toluene	7.576	92	302629	38.395	ug/L	96
62) 4-Methyl-2-pentanone	7.928	58	49797	32.668	ug/L	# 90
63) Tetrachloroethene	7.907	166	142098	37.218	ug/L	88
65) trans-1,3-Dichloropropene	7.949	75	182341	36.651	ug/L	88
68) 1,1,2-Trichloroethane	8.069	83	90531	38.161	ug/L	95
69) Chlorodibromomethane	8.205	129	124515	36.262	ug/L	96
71) 1,2-Dibromoethane	8.357	107	109130	37.760	ug/L	99
72) 2-Hexanone	8.562	43	81614	28.001	ug/L	90
73) Chlorobenzene	8.745	112	332948	37.422	ug/L	92
74) Ethylbenzene	8.777	91	588733	39.956	ug/L	100
76) p/m Xylene	8.882	106	442140	77.527	ug/L	98
77) o Xylene	9.154	106	430011	77.439	ug/L	96
78) Styrene	9.191	104	735311	79.250	ug/L	93
80) Bromoform	9.202	173	89056	36.830	ug/L	96
82) Isopropylbenzene	9.359	105	585219	39.202	ug/L	99
85) n-Propylbenzene	9.611	91	701389	39.404	ug/L	99
87) 1,1,2,2-Tetrachloroethane	9.658	83	124907	33.802	ug/L	99
90) 1,3,5-Trimethylbenzene	9.731	105	523273	39.761	ug/L	95
94) tert-Butylbenzene	9.915	119	425119	37.986	ug/L	93
97) 1,2,4-Trimethylbenzene	9.957	105	506313	38.716	ug/L	97
98) sec-Butylbenzene	10.020	105	660432	40.445	ug/L	100
99) p-Isopropyltoluene	10.103	119	567456	39.177	ug/L	98
100) 1,3-Dichlorobenzene	10.140	146	281813	36.655	ug/L	99
101) 1,4-Dichlorobenzene	10.193	146	286058	36.452	ug/L	99
103) n-Butylbenzene	10.345	91	524796	41.424	ug/L	98
104) 1,2-Dichlorobenzene	10.434	146	267006	36.285	ug/L	99
106) 1,2-Dibromo-3-chloropr...	10.885	155	25420	34.049	ug/L	93
109) 1,2,4-Trichlorobenzene	11.262	180	218042	39.117	ug/L	100
110) Naphthalene	11.440	128	453321	35.102	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N02.D
Acq On : 21 Jul 2023 06:57 pm
Operator : VOA129:LAC
Sample : WG1806697-3,31,5,5
Misc : WG1806697,ICAL19799
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 21 20:22:06 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

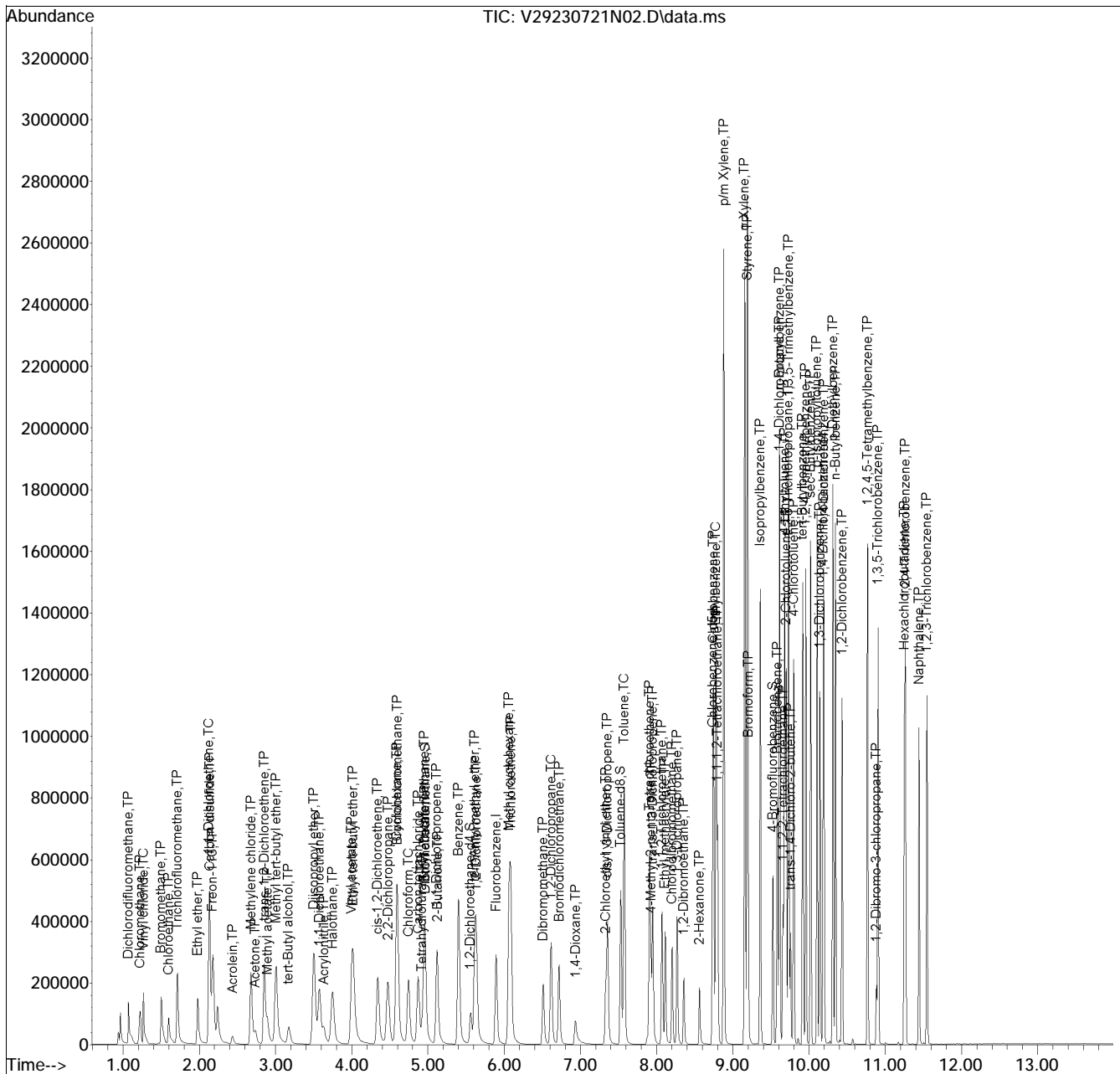
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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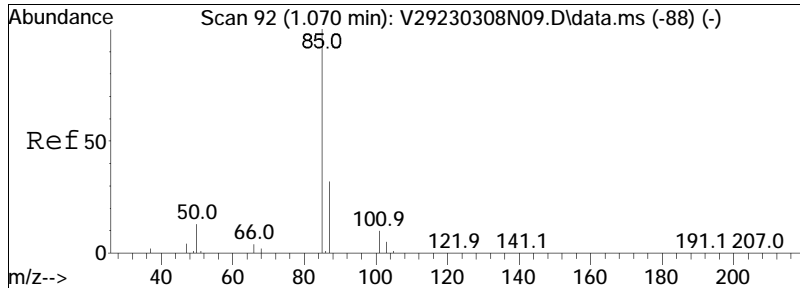
Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N02.D
 Acq On : 21 Jul 2023 06:57 pm
 Operator : VOA129:LAC
 Sample : WG1806697-3,31,5,5
 Misc : WG1806697,ICAL19799
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 21 20:22:06 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

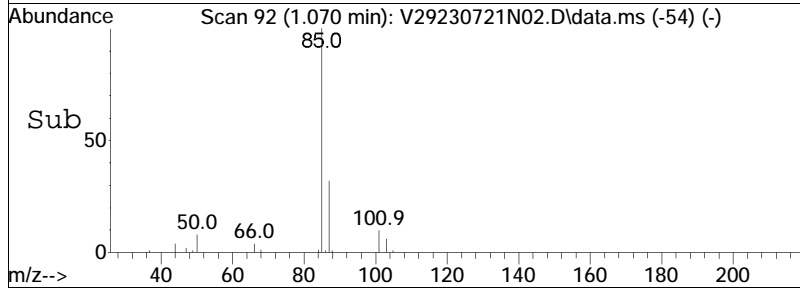
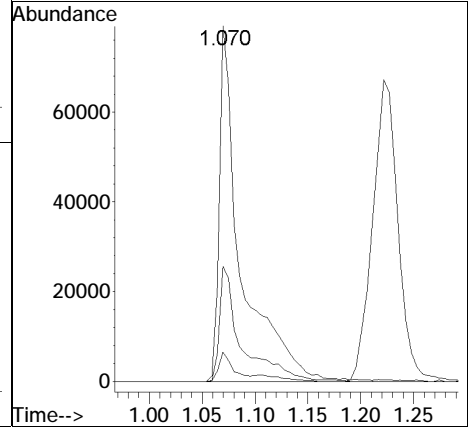
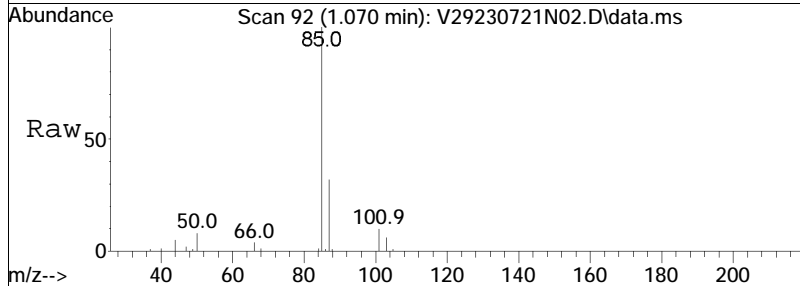
Sub List : 8260-CurveSoil - Megamix plus Diox21N01.D•

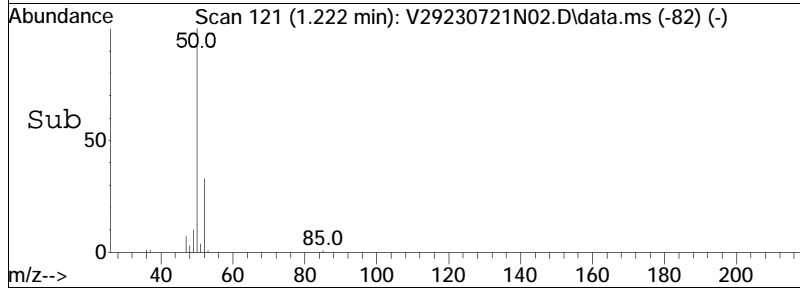
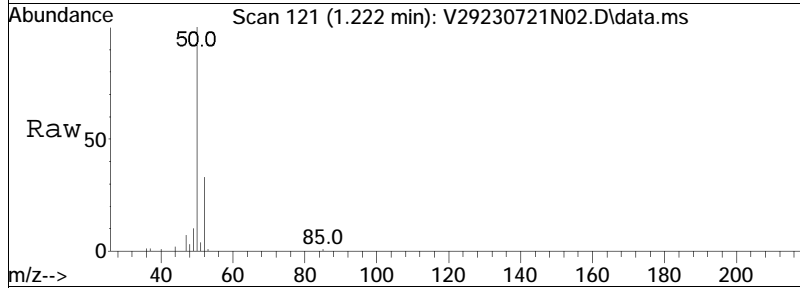
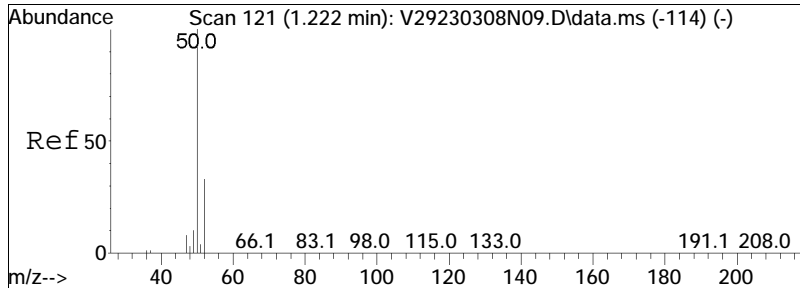




#2
 Dichlorodifluoromethane
 Concen: 38.32 ug/L
 RT: 1.070 min Scan# 92
 Delta R.T. -0.000 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

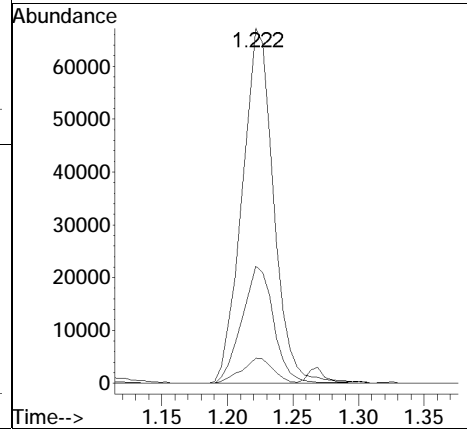
Tgt Ion	Resp	Lower	Upper
85	113318		
87	32.9	21.0	43.6
50	5.6	8.9	18.5#

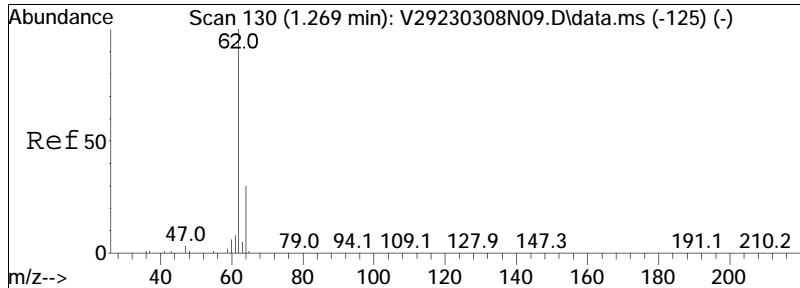




#3
 Chloromethane
 Concen: 26.80 ug/L
 RT: 1.222 min Scan# 121
 Delta R.T. 0.006 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

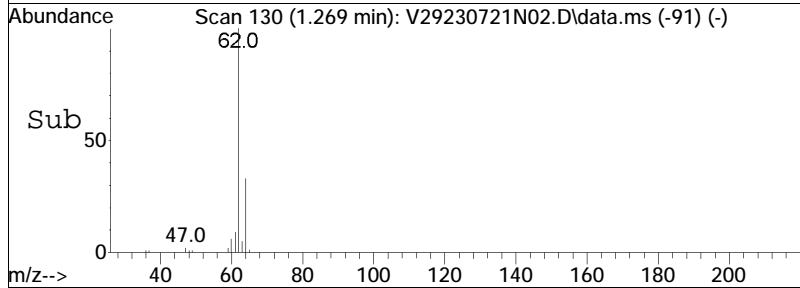
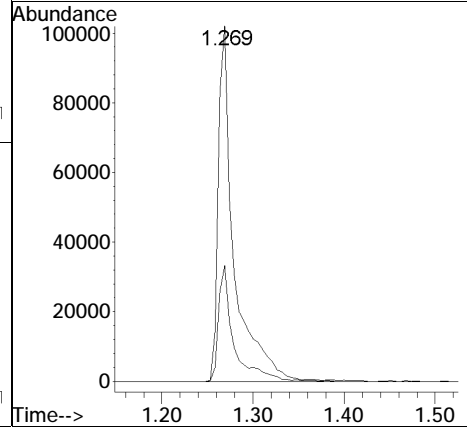
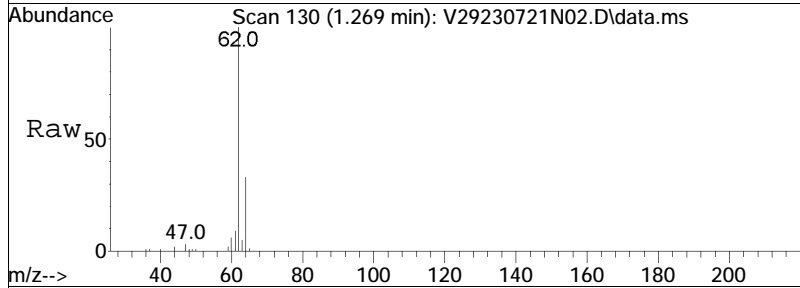
Tgt Ion	Resp	Lower	Upper
50	112581		
50	100		
52	33.3	12.9	52.9
47	7.2	0.0	28.3

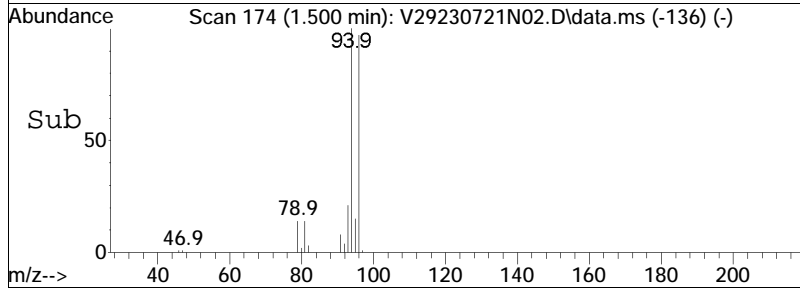
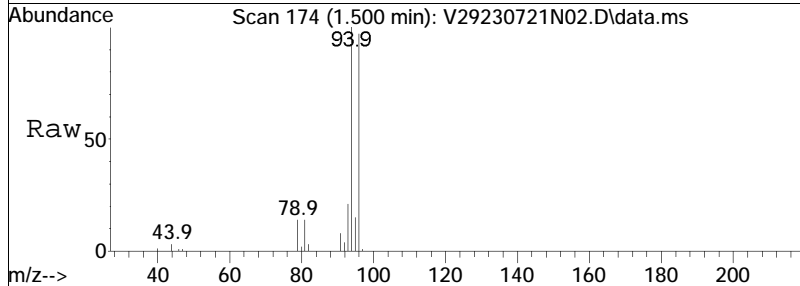
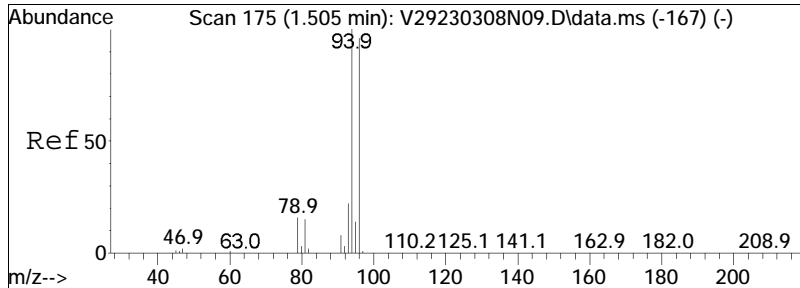




#4
 Vinyl chloride
 Concen: 35.78 ug/L
 RT: 1.269 min Scan# 130
 Delta R.T. 0.005 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

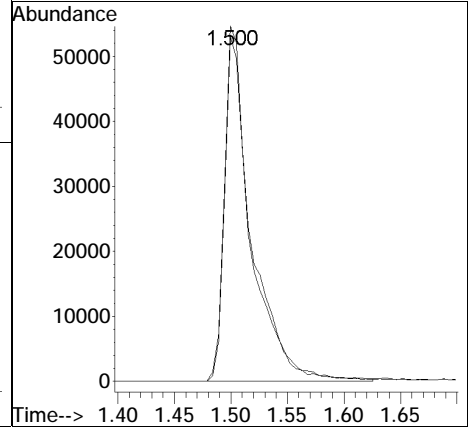
Tgt Ion	Resp	Lower	Upper
62	124079		
64	31.3	9.1	49.1

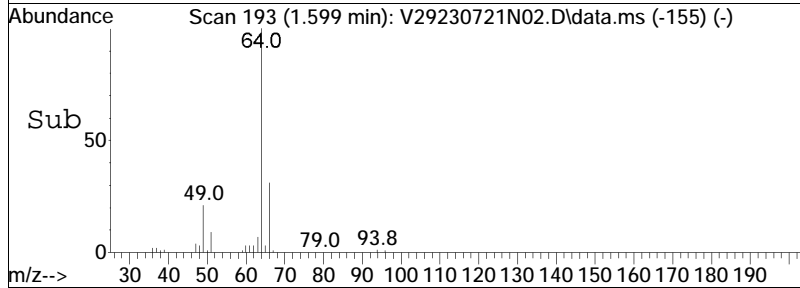
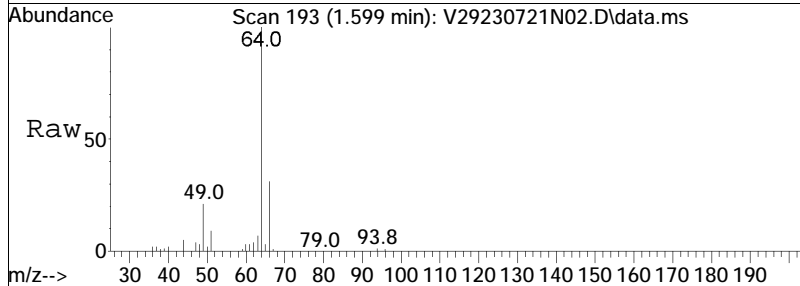
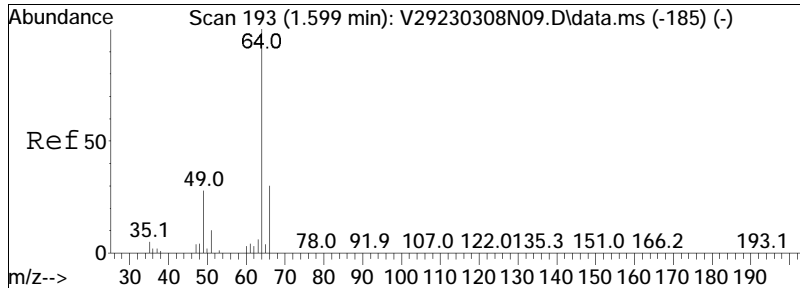




#5
 Bromomethane
 Concen: 50.69 ug/L
 RT: 1.500 min Scan# 174
 Delta R.T. -0.000 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

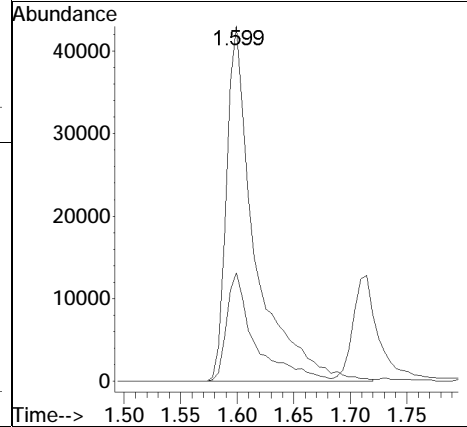
Tgt Ion:	94	Resp:	91404
Ion Ratio	Lower	Upper	
94	100		
96	94.0	75.6	115.6

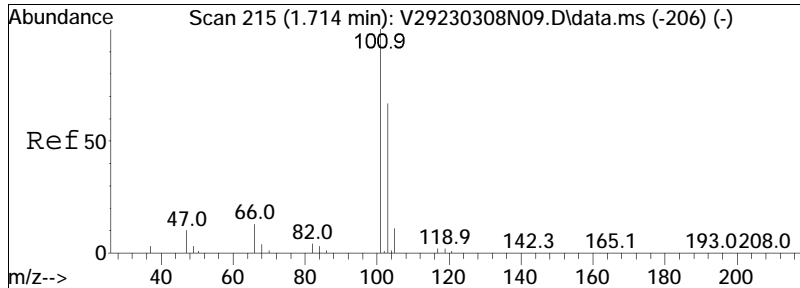




#6
 Chloroethane
 Concen: 38.71 ug/L
 RT: 1.599 min Scan# 193
 Delta R.T. 0.000 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

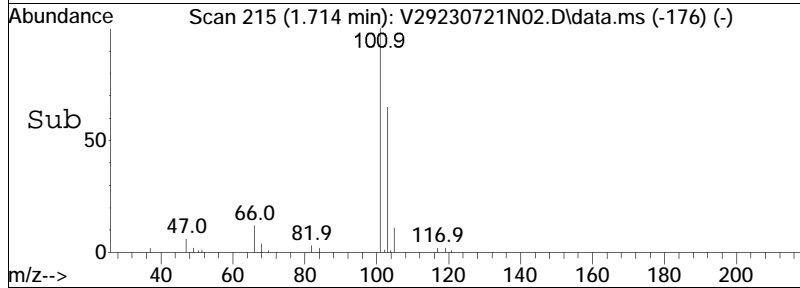
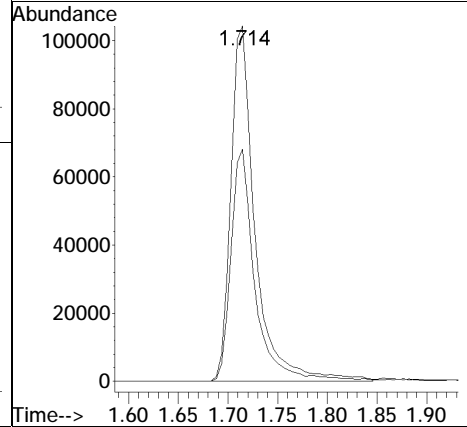
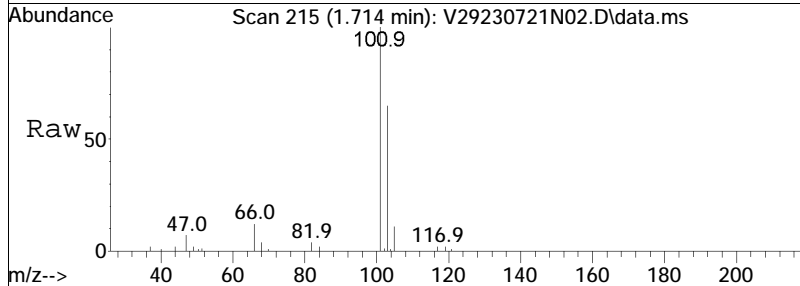
Tgt Ion	Resp	Lower	Upper
64	100		
66	30.7	9.8	49.8

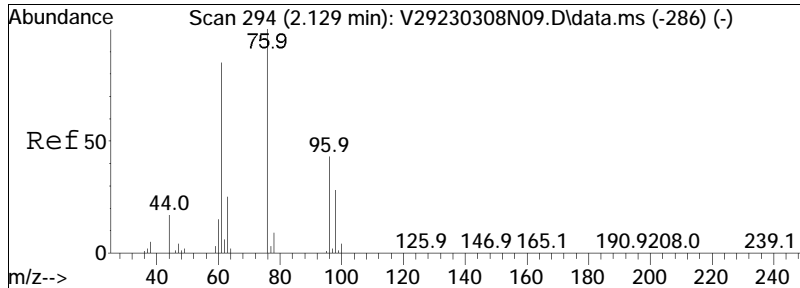




#7
 Trichlorofluoromethane
 Concen: 43.89 ug/L
 RT: 1.714 min Scan# 215
 Delta R.T. 0.005 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

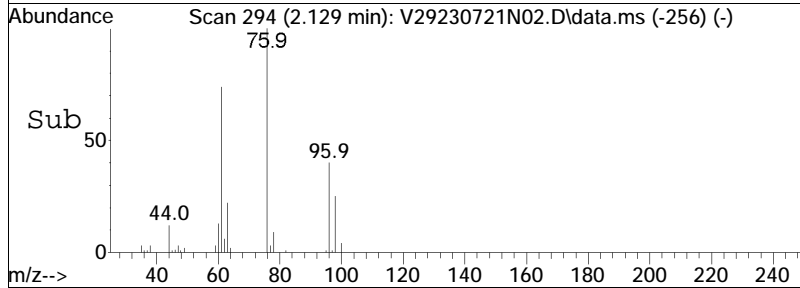
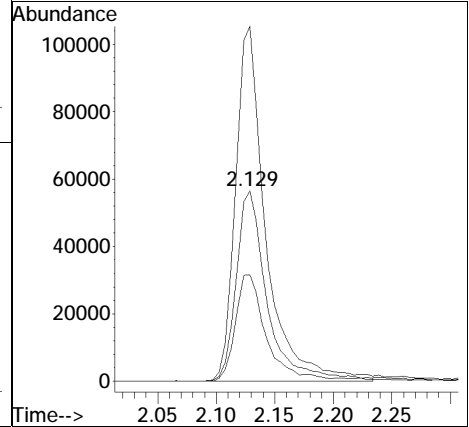
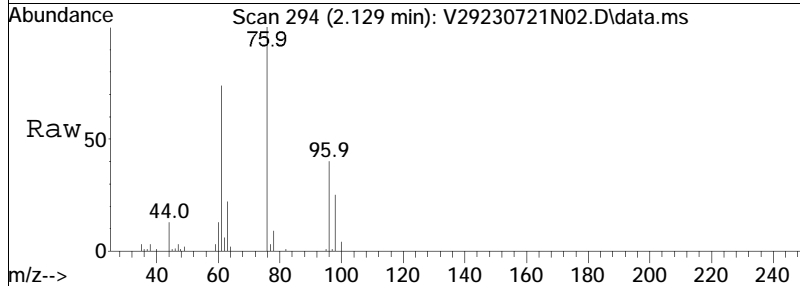
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.9	53.8	80.6

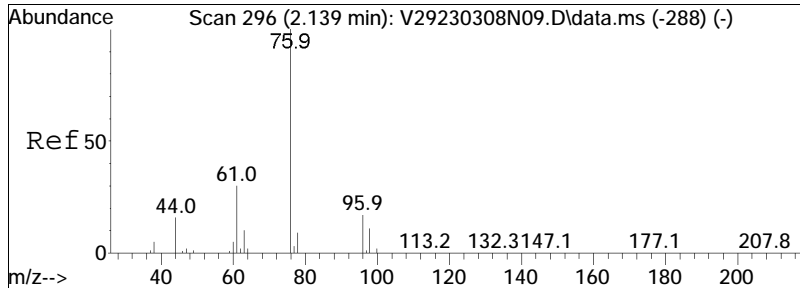




#10
 1,1-Dichloroethene
 Concen: 42.97 ug/L
 RT: 2.129 min Scan# 294
 Delta R.T. -0.000 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

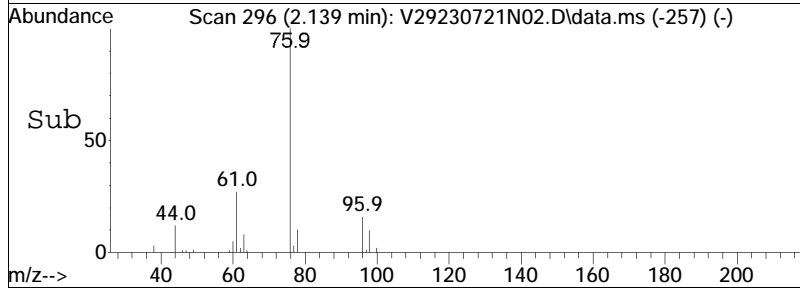
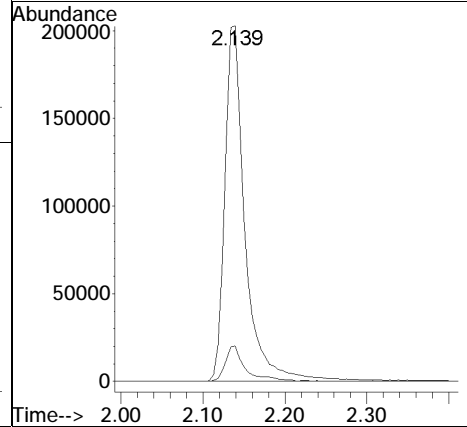
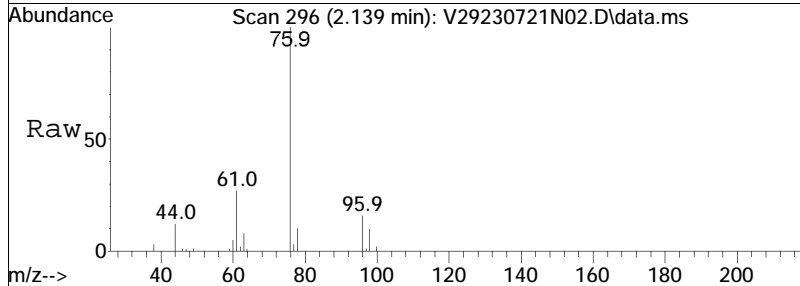
Tgt Ion	Resp	Lower	Upper
96	104662		
96	100		
61	182.6	186.1	279.1#
63	56.4	57.6	86.4#

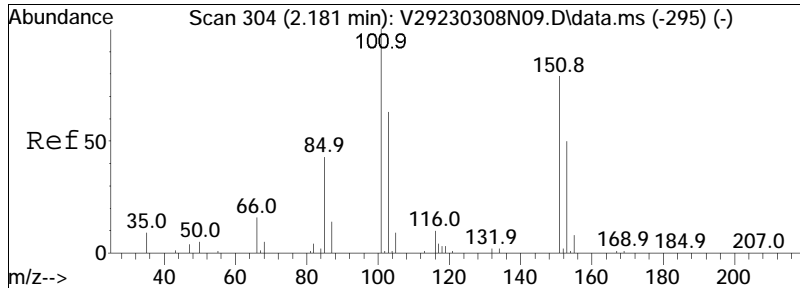




#11
 Carbon disulfide
 Concen: 40.46 ug/L
 RT: 2.139 min Scan# 296
 Delta R.T. 0.005 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

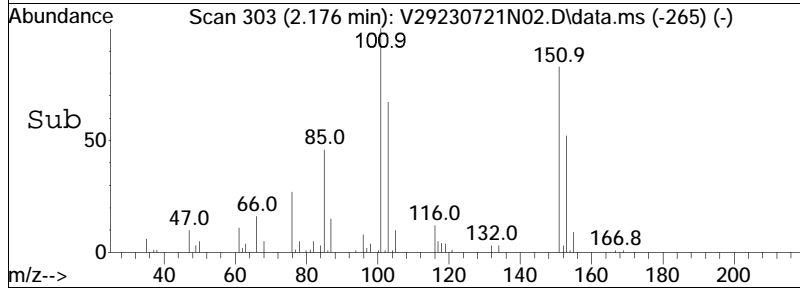
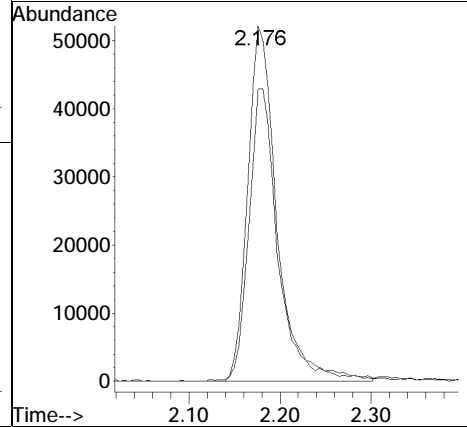
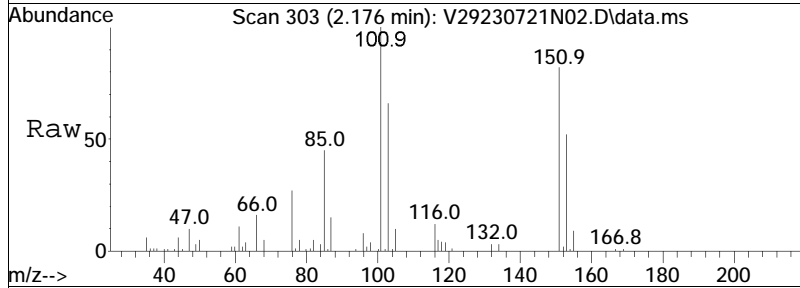
Tgt Ion	Resp	Lower	Upper
76	350247		
76	100		
78	9.9	5.7	11.7

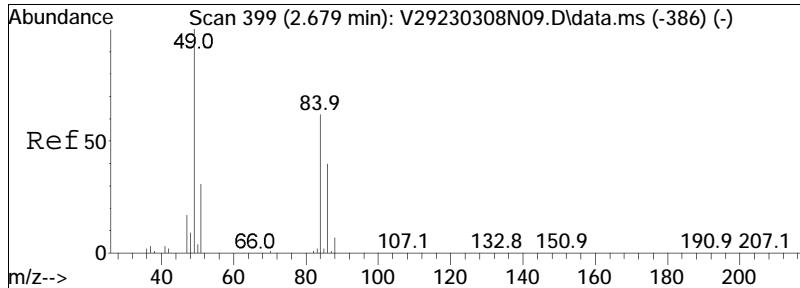




#12
 Freon-113
 Concen: 43.70 ug/L
 RT: 2.176 min Scan# 303
 Delta R.T. -0.000 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

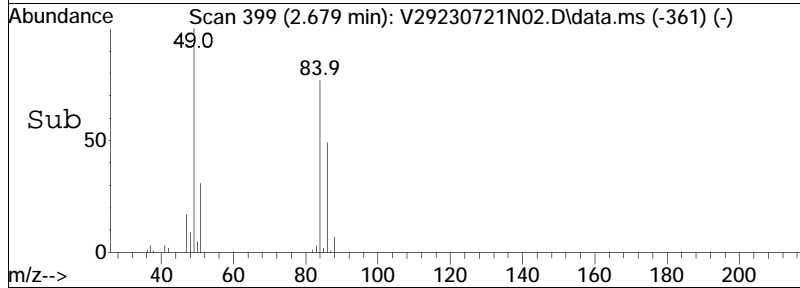
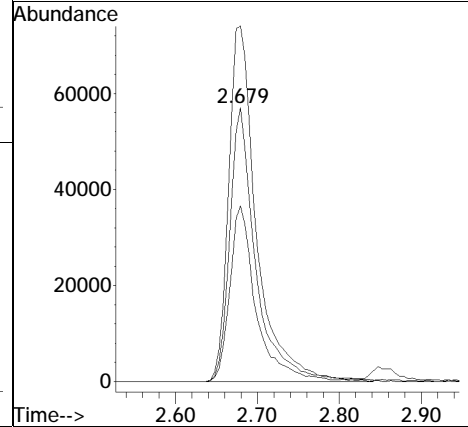
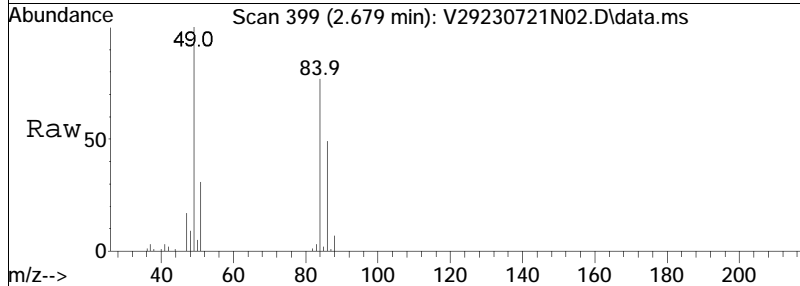
Tgt Ion	101	Resp:	117175
Ion Ratio	Lower	Upper	
101	100		
151	81.7	59.8	89.8

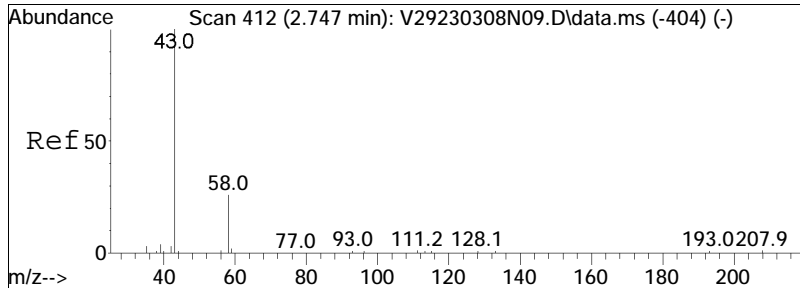




#15
 Methylene chloride
 Concen: 39.80 ug/L
 RT: 2.679 min Scan# 399
 Delta R.T. 0.000 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

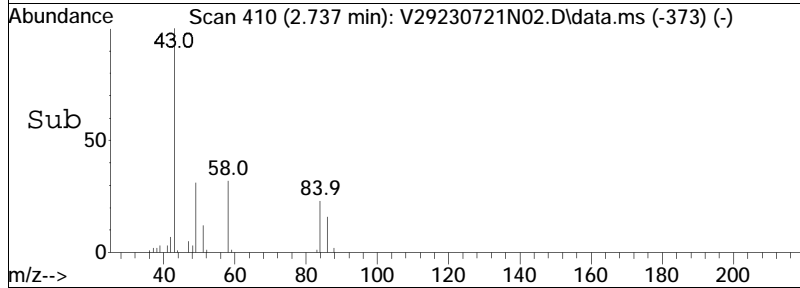
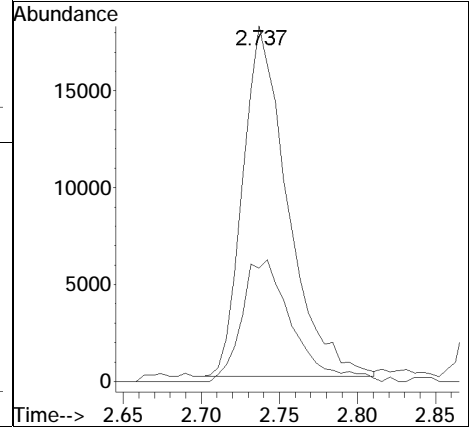
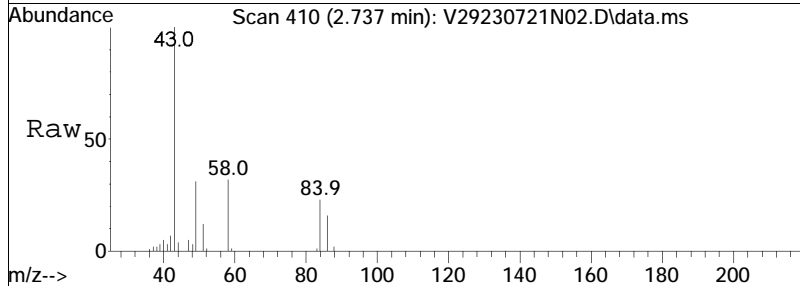
Tgt Ion:	84	Resp:	126120
Ion Ratio	Lower	Upper	
84	100		
86	64.6	40.4	83.8
49	138.2	120.0	249.2

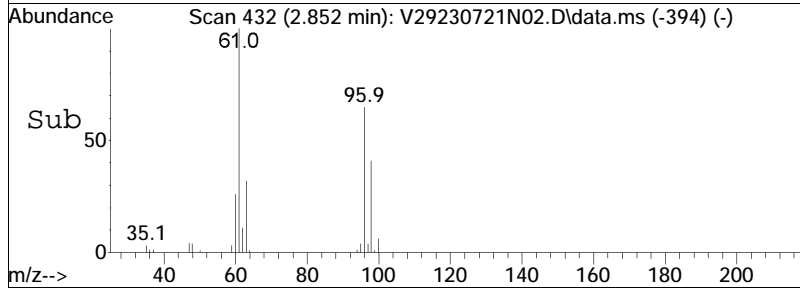
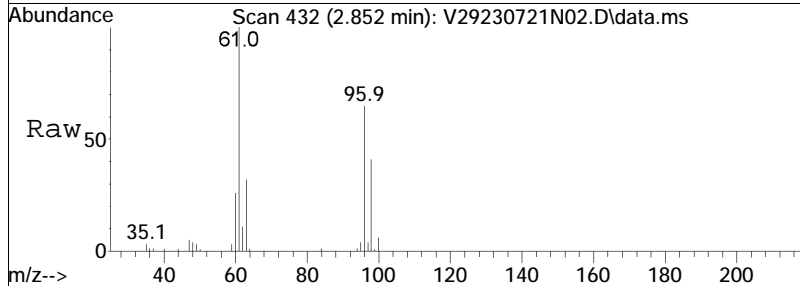
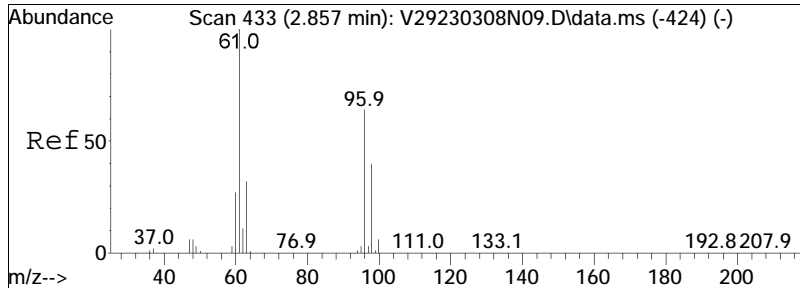




#17
 Acetone
 Concen: 41.35 ug/L
 RT: 2.737 min Scan# 410
 Delta R.T. -0.005 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

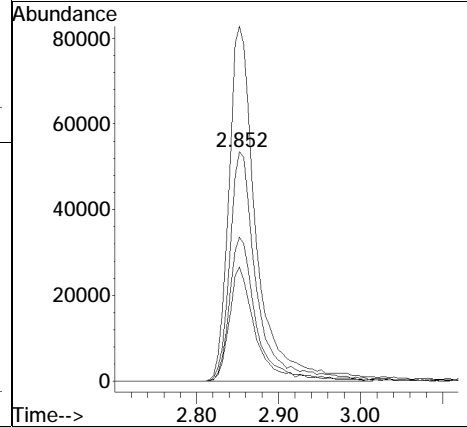
Tgt Ion:	43	58	Resp:	36395
Ion Ratio	100	38.5	Lower	Upper
			24.2	36.4#

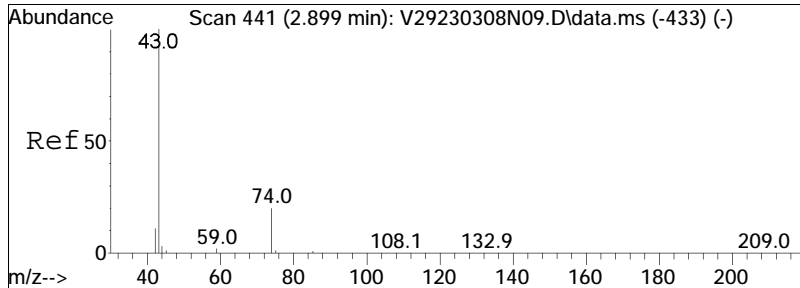




#18
 trans-1,2-Dichloroethene
 Concen: 41.71 ug/L
 RT: 2.852 min Scan# 432
 Delta R.T. 0.000 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

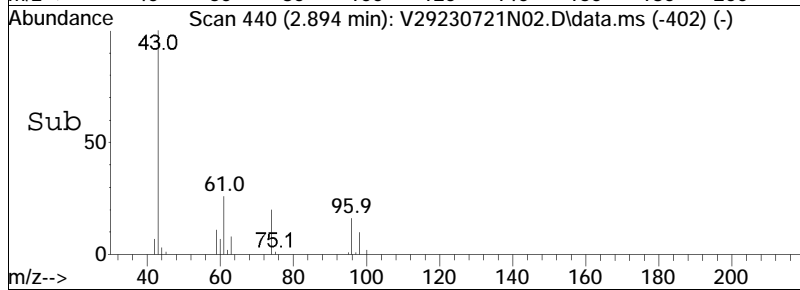
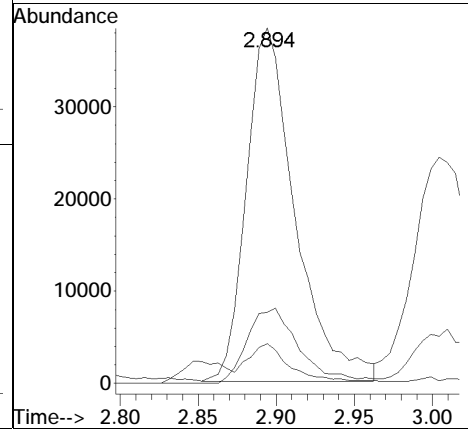
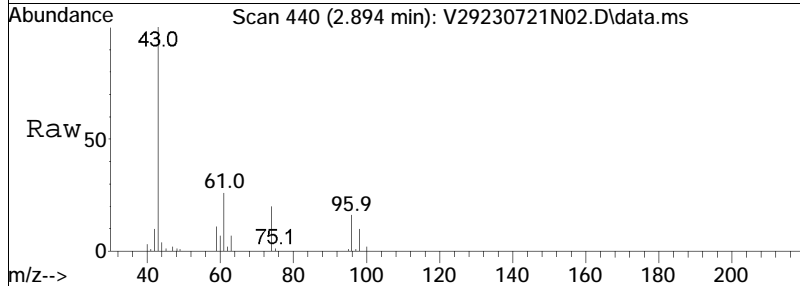
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
96	100		
61	153.2	124.0	257.6
98	61.5	41.2	85.6
63	48.4	38.4	79.7

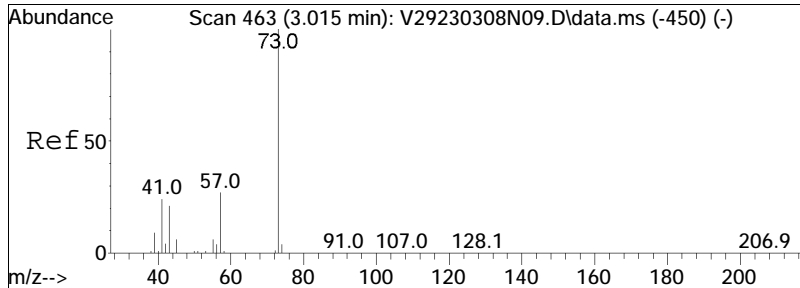




#19
 Methyl acetate
 Concen: 37.10 ug/L
 RT: 2.894 min Scan# 440
 Delta R.T. 0.000 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

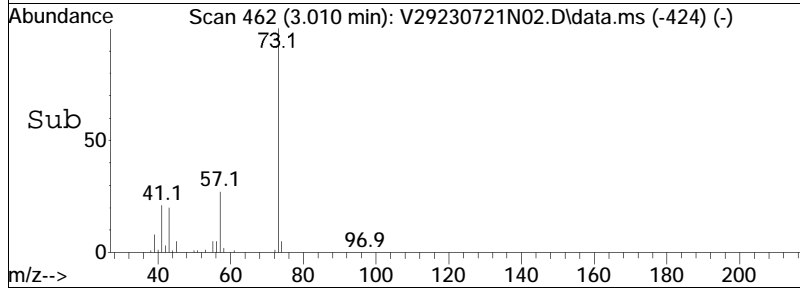
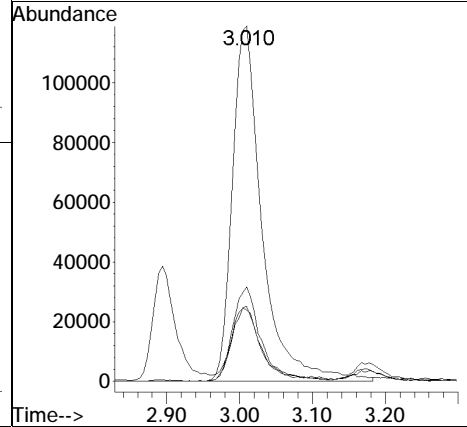
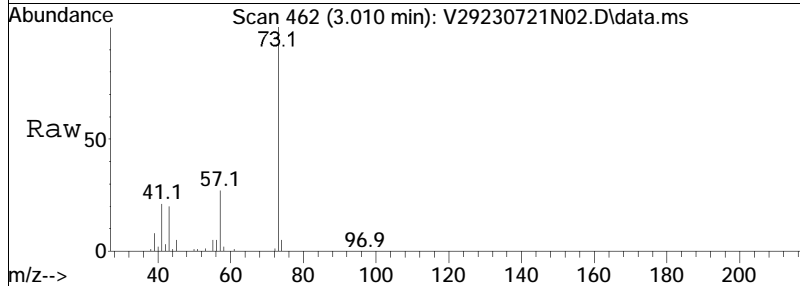
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
43	100		
74	23.1	14.2	21.4#
59	9.3	5.0	7.6#

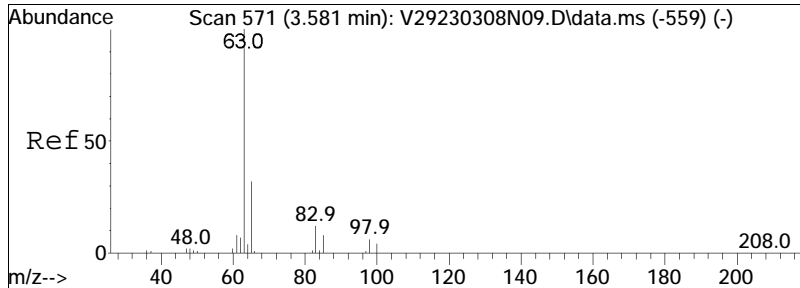




#20
 Methyl tert-butyl ether
 Concen: 45.38 ug/L
 RT: 3.010 min Scan# 462
 Delta R.T. -0.000 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

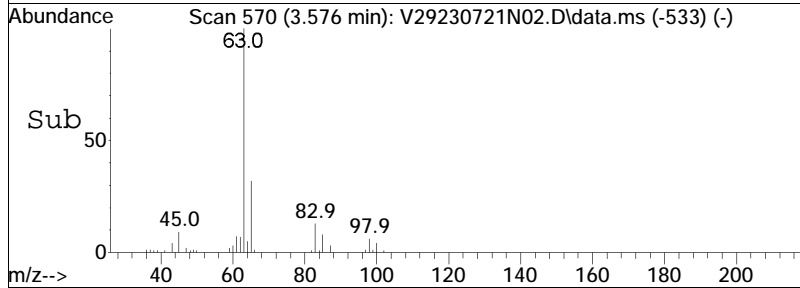
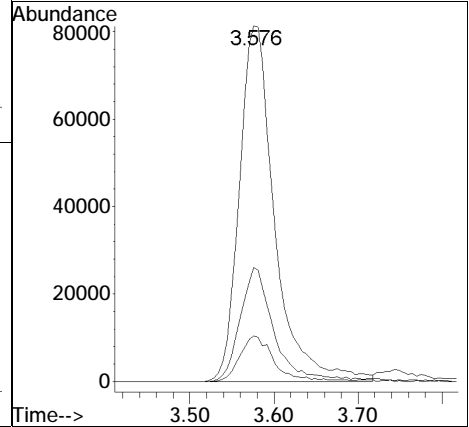
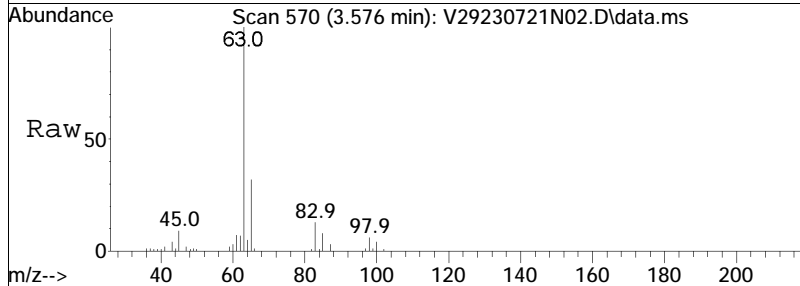
Tgt Ion	Resp	Lower	Upper
73	338534		
57	25.2	17.5	36.3
43	19.4	15.3	31.9
41	20.9	15.3	31.7

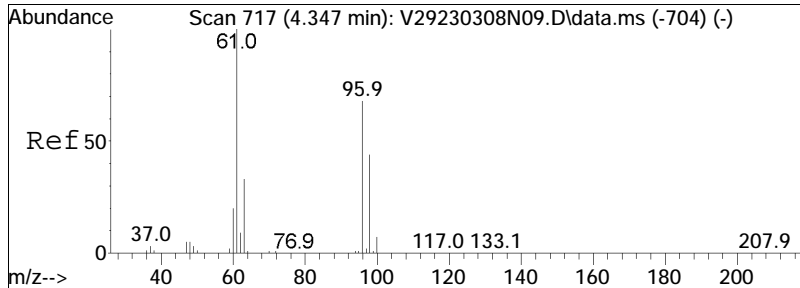




#23
 1,1-Dichloroethane
 Concen: 41.40 ug/L
 RT: 3.576 min Scan# 570
 Delta R.T. -0.005 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

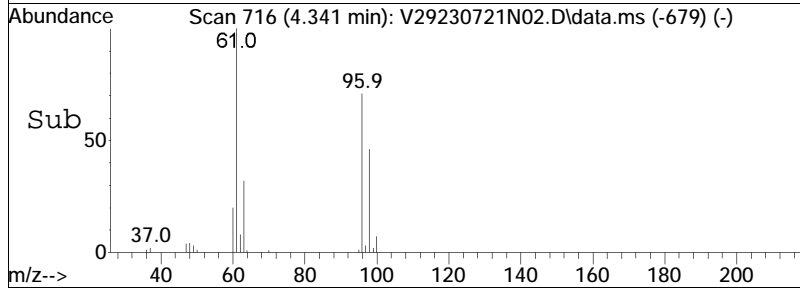
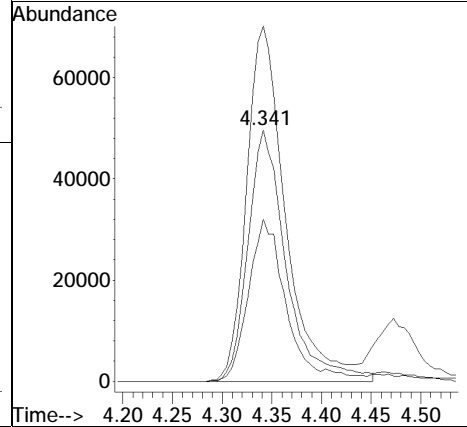
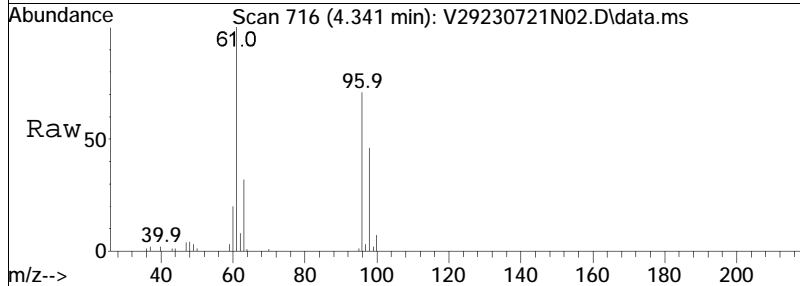
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
63	100		
65	30.6	11.0	51.0
83	12.2	0.0	31.8

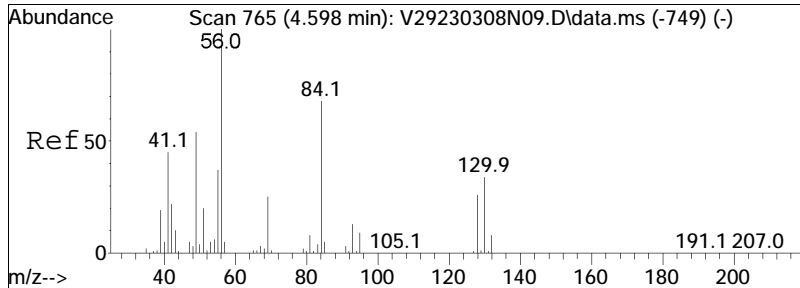




#28
 cis-1,2-Dichloroethene
 Concen: 40.12 ug/L
 RT: 4.341 min Scan# 716
 Delta R.T. -0.006 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

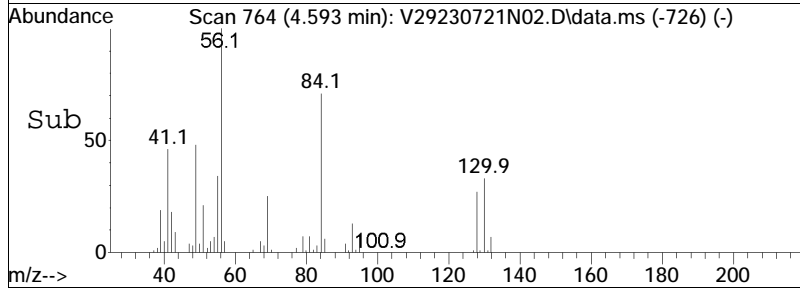
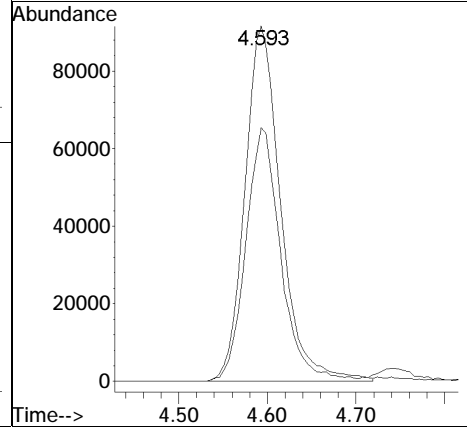
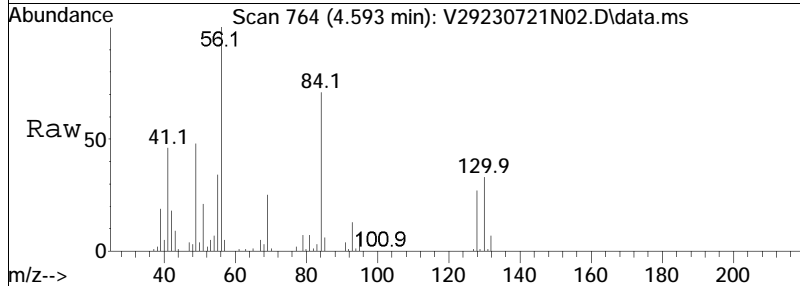
Tgt Ion	Resp	Lower	Upper
96	133228		
96	100		
61	141.6	149.4	224.2#
98	63.8	53.4	80.2

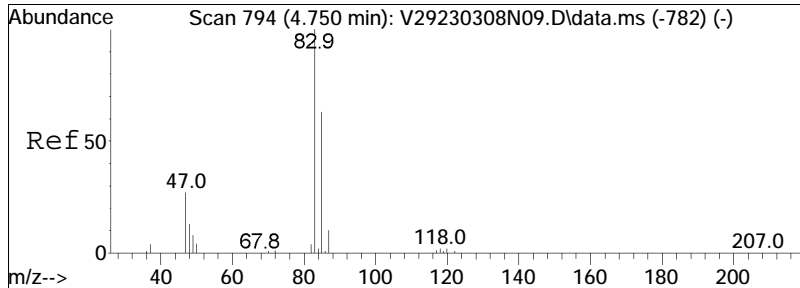




#31
 Cyclohexane
 Concen: 40.95 ug/L
 RT: 4.593 min Scan# 764
 Delta R.T. -0.000 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

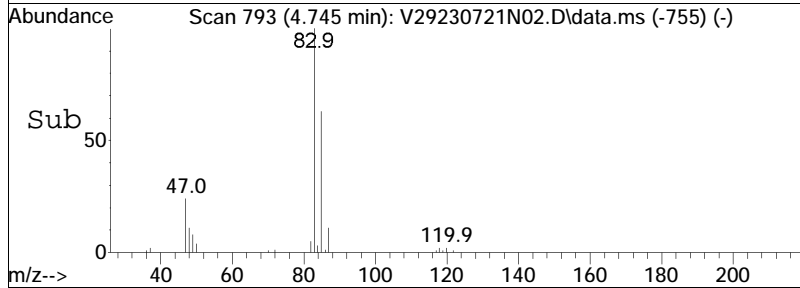
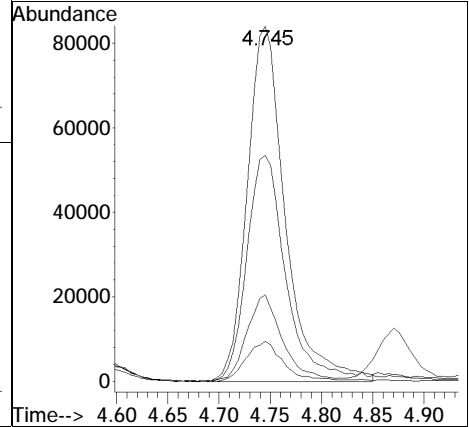
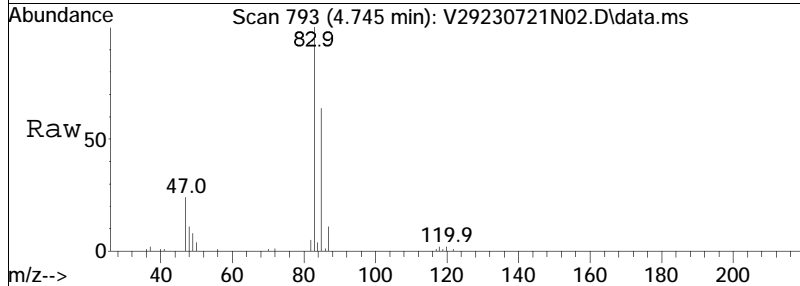
Tgt Ion:	56	Resp:	257562
Ion Ratio	Lower	Upper	
56	100		
84	69.7	38.4	79.8

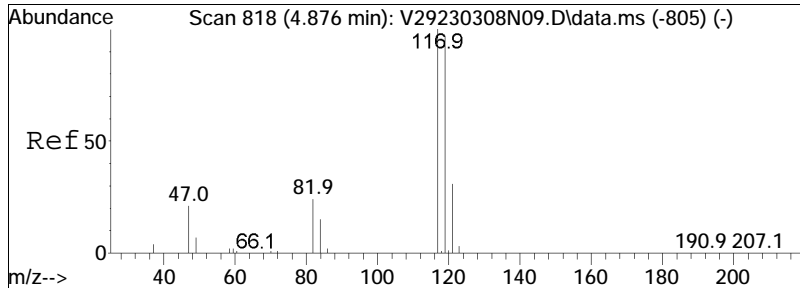




#32
 Chloroform
 Concen: 40.99 ug/L
 RT: 4.745 min Scan# 793
 Delta R.T. -0.000 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

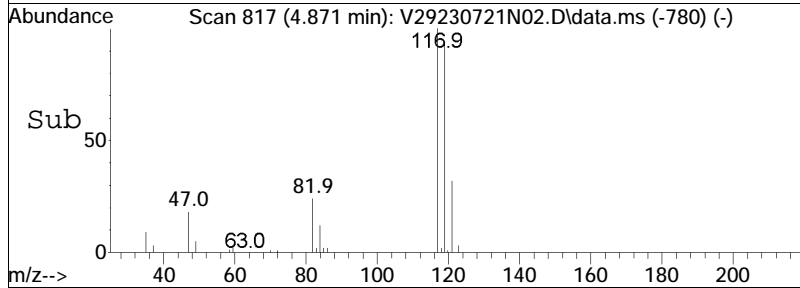
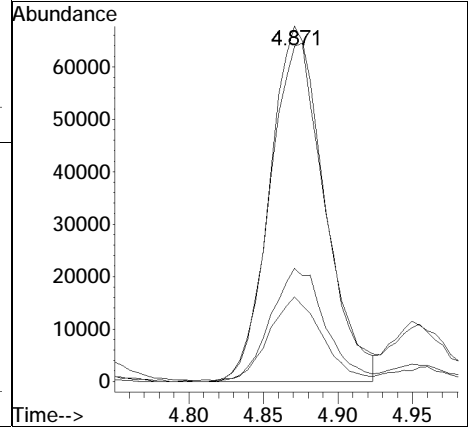
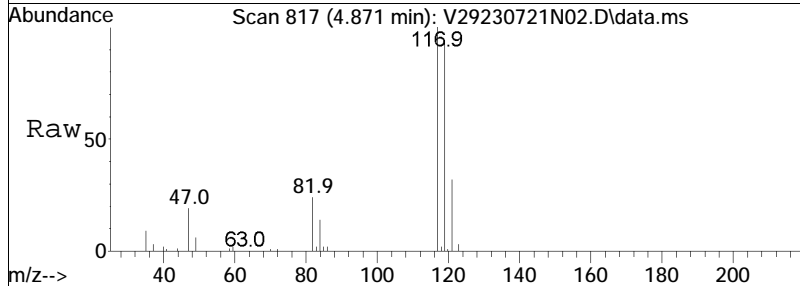
Tgt Ion	Resp	Lower	Upper
83	217441		
83	100		
85	66.0	41.5	86.1
47	23.2	19.0	39.4
48	11.1	9.9	20.5

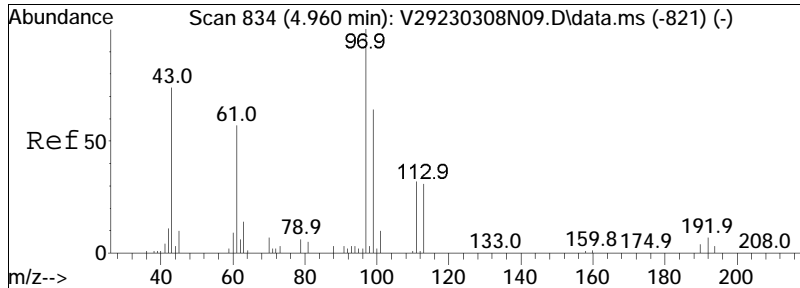




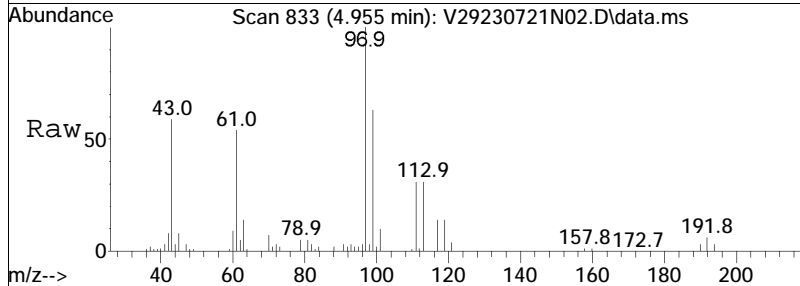
#34
 Carbon tetrachloride
 Concen: 41.00 ug/L
 RT: 4.871 min Scan# 817
 Delta R.T. -0.005 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

Tgt Ion	Resp	Lower	Upper
117	172587		
117	100		
119	97.1	62.4	129.6
121	31.8	19.5	40.5
82	23.3	17.0	35.4

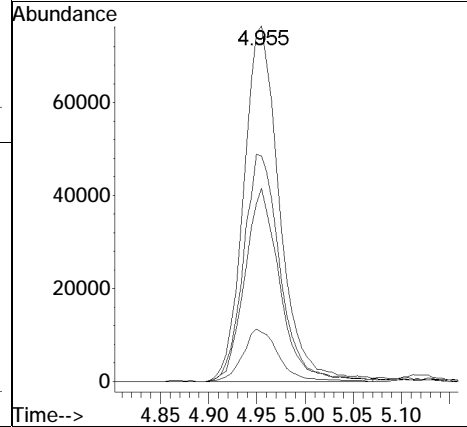
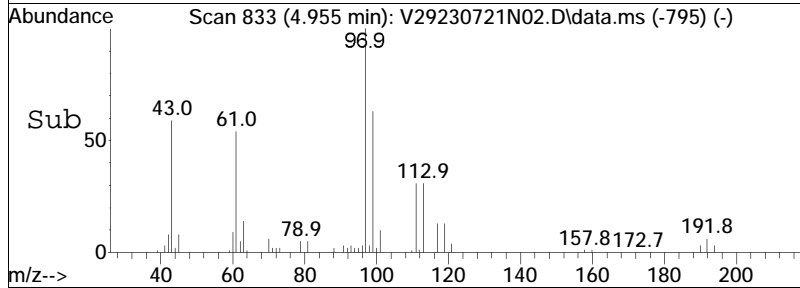


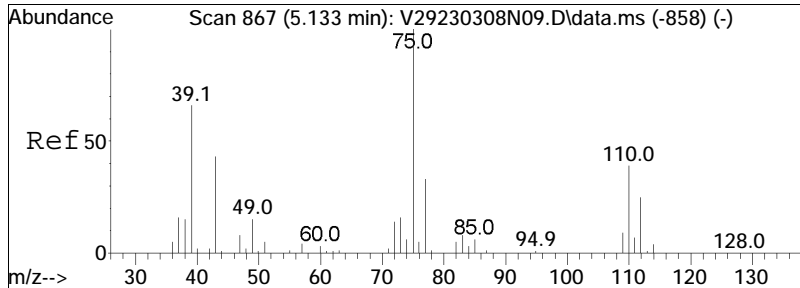


#37
 1,1,1-Trichloroethane
 Concen: 44.61 ug/L
 RT: 4.955 min Scan# 833
 Delta R.T. -0.000 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm



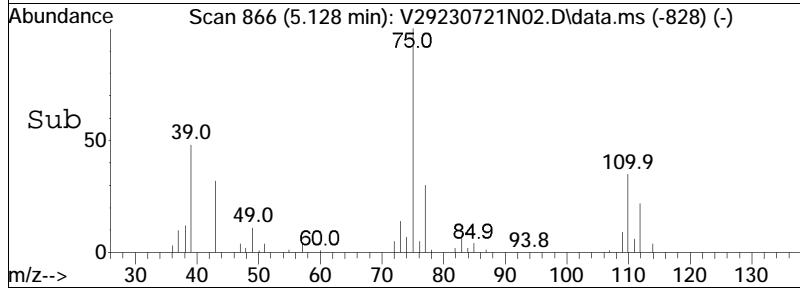
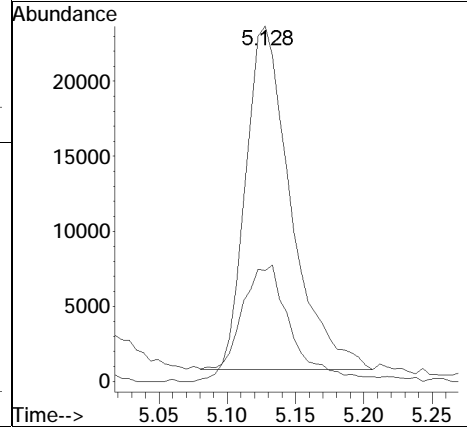
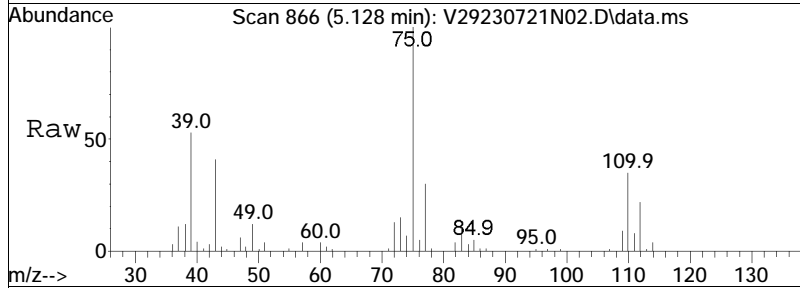
Tgt Ion	Resp	Lower	Upper
97	198593		
97	100		
99	64.0	40.7	84.5
61	53.3	35.4	73.4
63	14.6	5.0	10.4

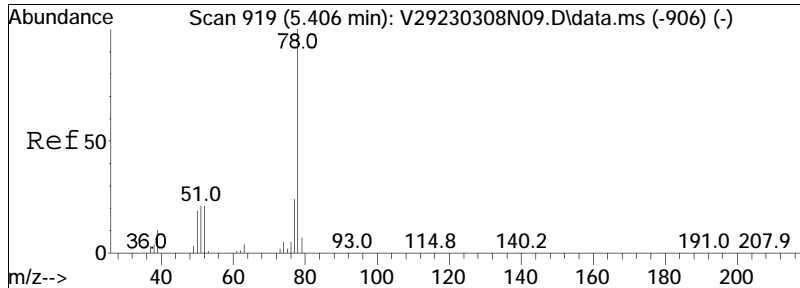




#39
 2-Butanone
 Concen: 26.22 ug/L
 RT: 5.128 min Scan# 866
 Delta R.T. -0.000 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

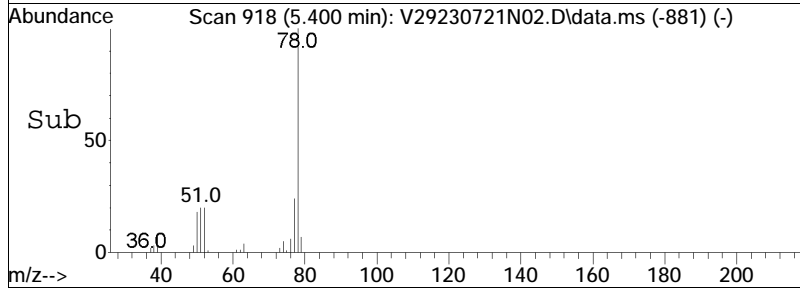
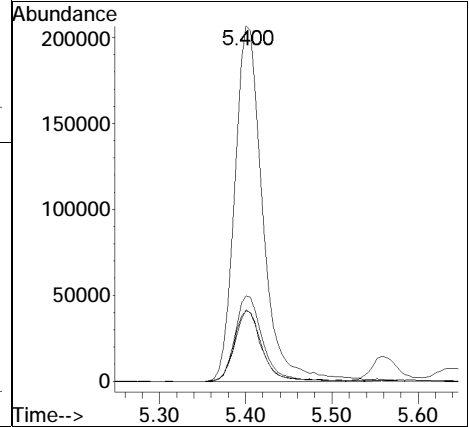
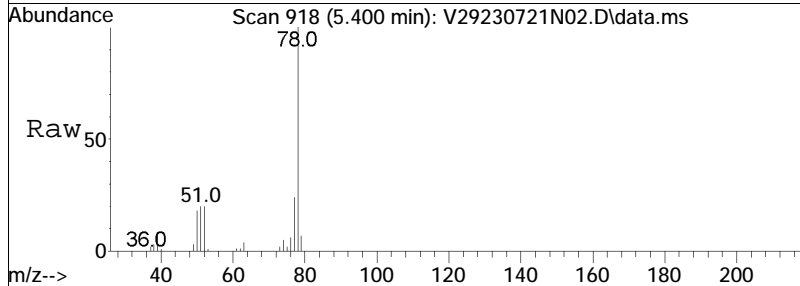
Tgt Ion	Resp	Lower	Upper
43	100		
72	38.0	10.9	16.3#

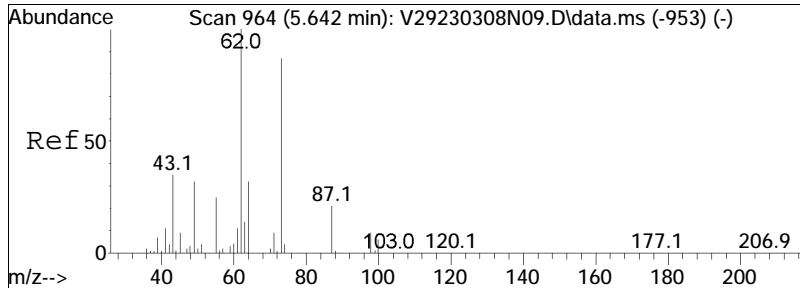




#41
 Benzene
 Concen: 41.17 ug/L
 RT: 5.400 min Scan# 918
 Delta R.T. -0.006 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

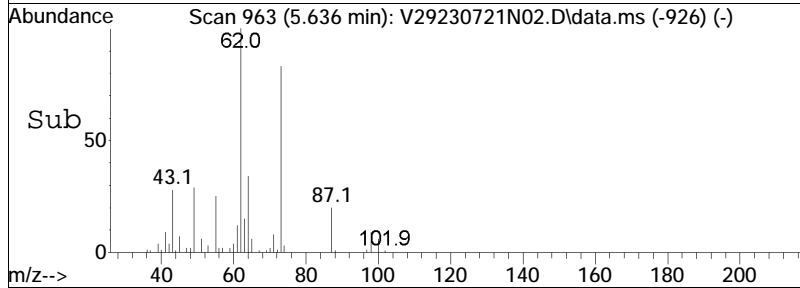
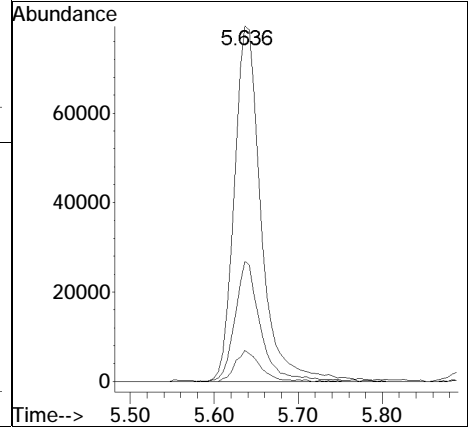
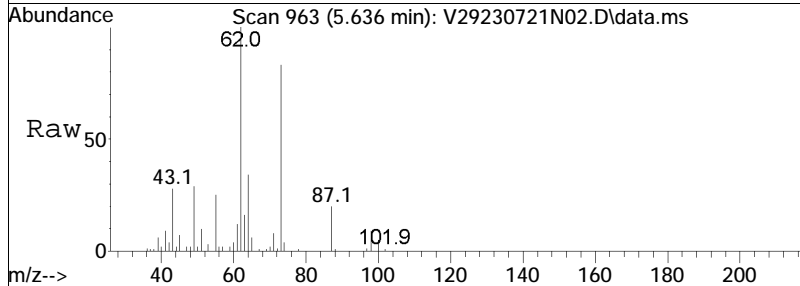
Tgt Ion	Resp	Lower	Upper
78	468011		
77	23.8	15.7	32.7
51	19.4	16.0	33.2
52	19.6	15.3	31.9

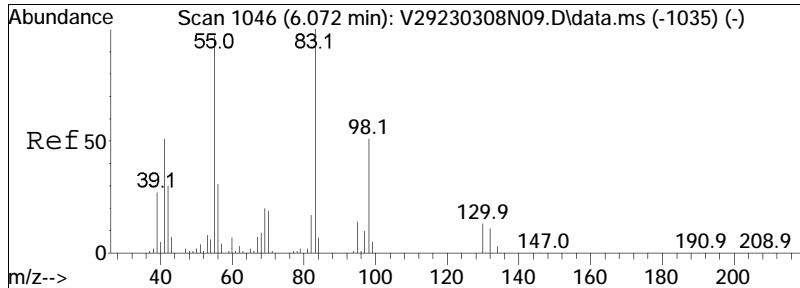




#44
 1,2-Dichloroethane
 Concen: 40.50 ug/L
 RT: 5.636 min Scan# 963
 Delta R.T. -0.006 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

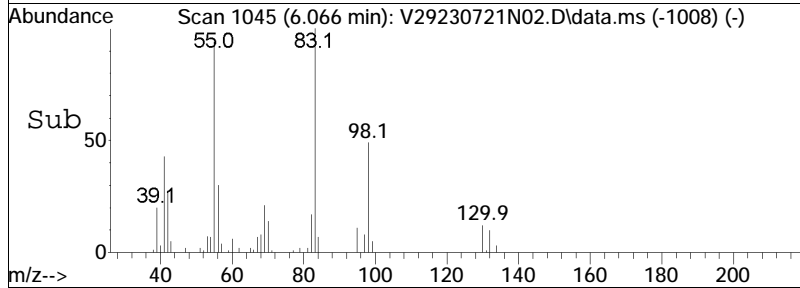
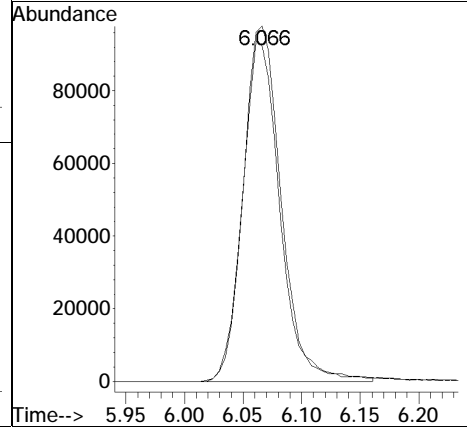
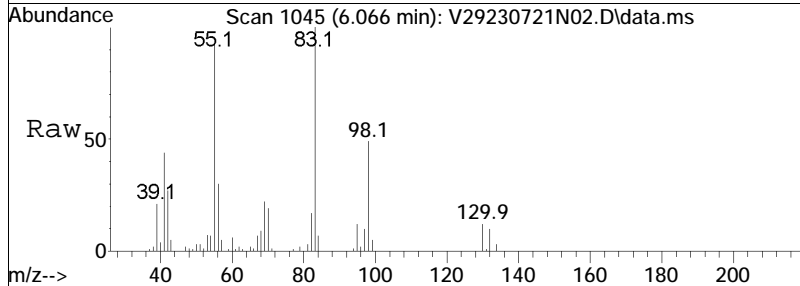
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
62	100		
64	32.3	11.2	51.2
98	8.0	0.0	26.1

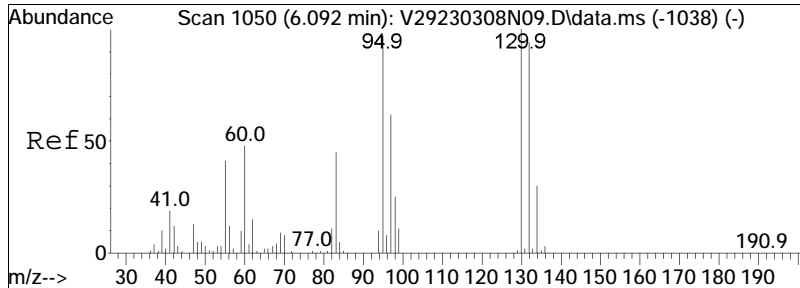




#47
 Methyl cyclohexane
 Concen: 41.14 ug/L
 RT: 6.066 min Scan# 1045
 Delta R.T. -0.006 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

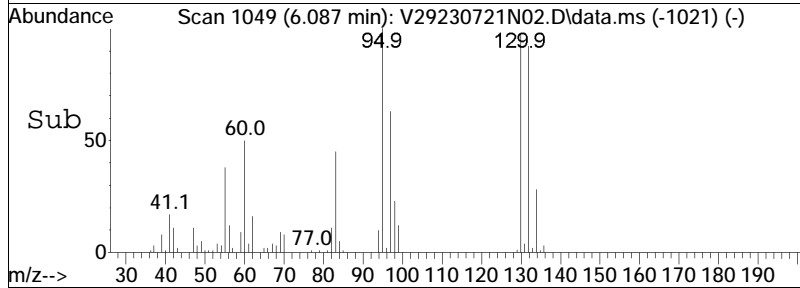
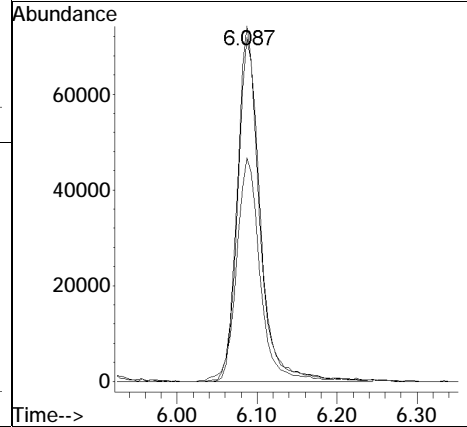
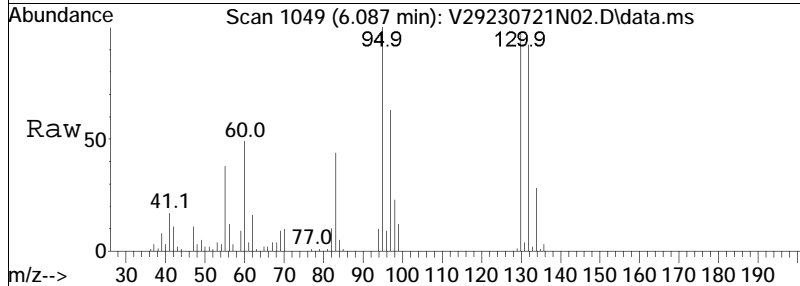
Tgt Ion	Resp	Lower	Upper
83	100		
55	93.4	88.3	132.5

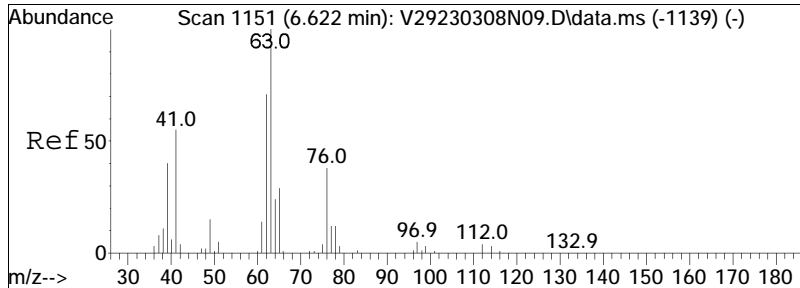




#48
 Trichloroethene
 Concen: 44.46 ug/L
 RT: 6.087 min Scan# 1049
 Delta R.T. -0.006 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

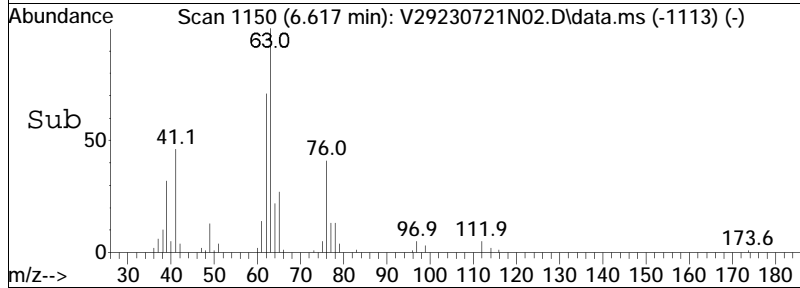
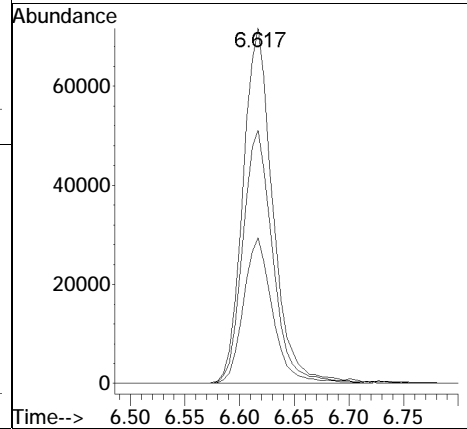
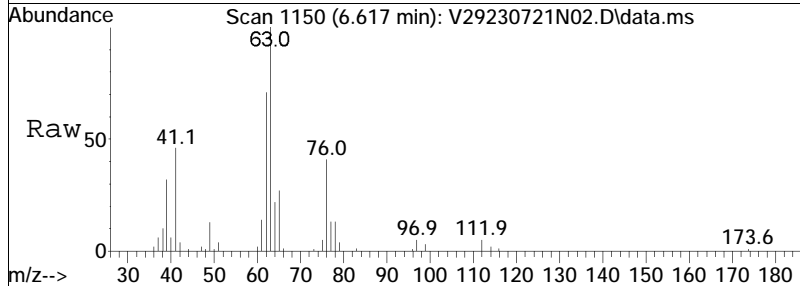
Tgt Ion	Resp	Lower	Upper
95	143918		
95	100		
97	66.6	55.5	83.3
130	97.7	76.6	115.0

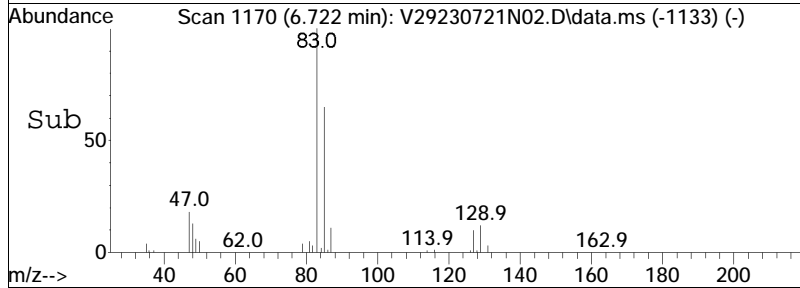
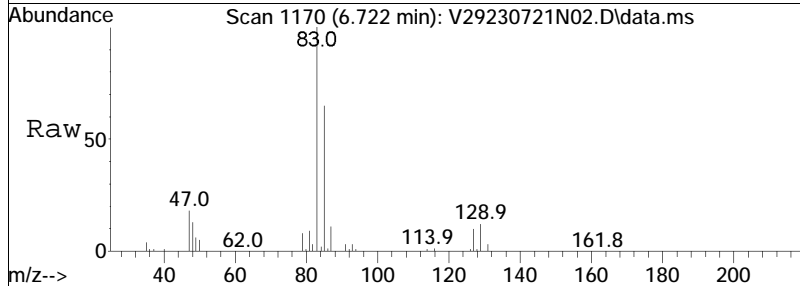
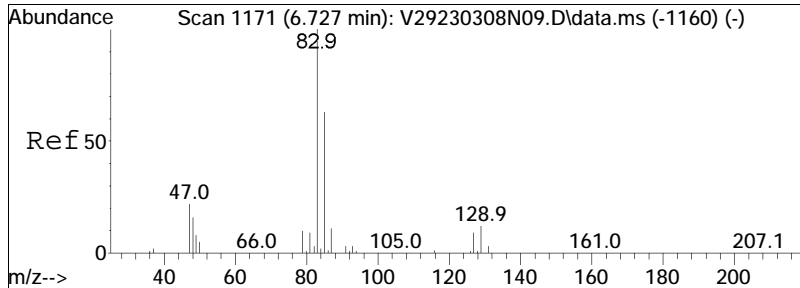




#51
 1,2-Dichloropropane
 Concen: 37.34 ug/L
 RT: 6.617 min Scan# 1150
 Delta R.T. -0.005 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

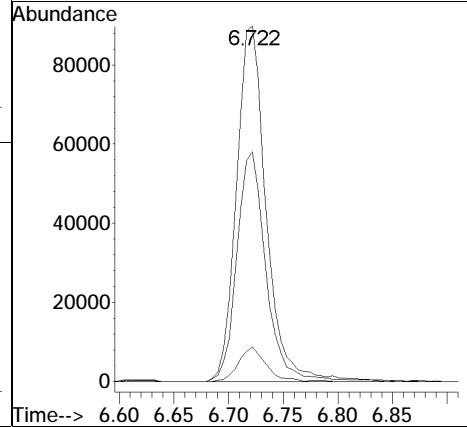
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
63	100		
62	71.1	58.6	87.8
76	39.9	38.0	57.0

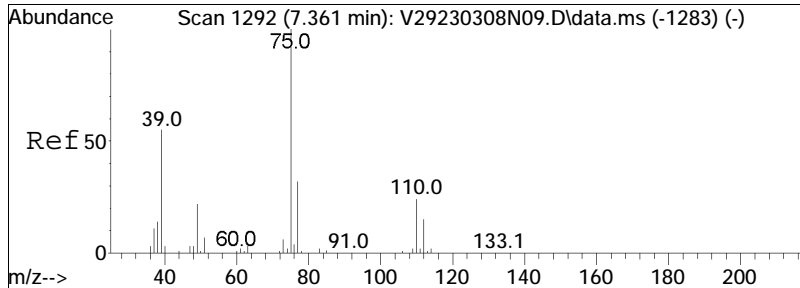




#54
 Bromodichloromethane
 Concen: 40.05 ug/L
 RT: 6.722 min Scan# 1170
 Delta R.T. -0.005 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

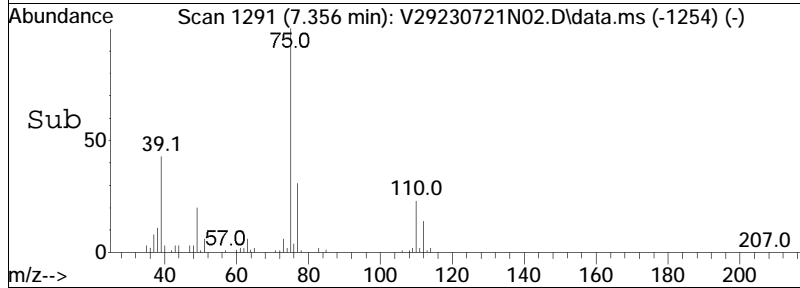
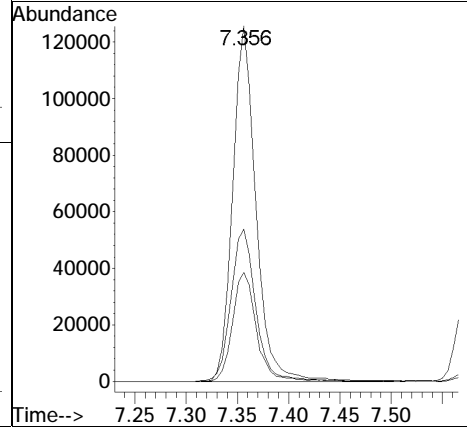
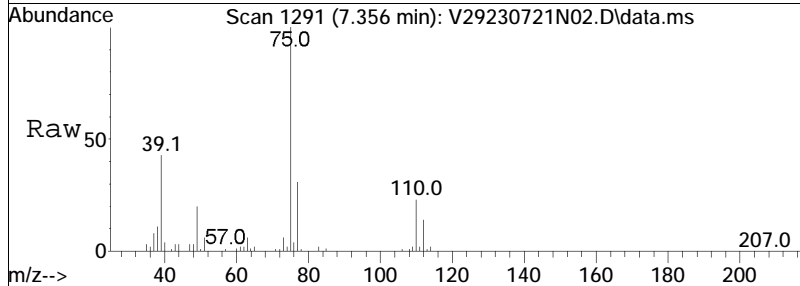
Tgt Ion:	83	Resp:	169819
Ion Ratio	Lower	Upper	
83	100		
85	63.2	52.3	78.5
127	8.8	6.2	9.4

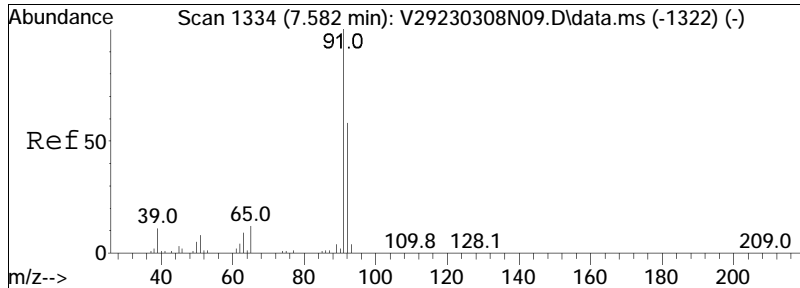




#58
 cis-1,3-Dichloropropene
 Concen: 38.29 ug/L
 RT: 7.356 min Scan# 1291
 Delta R.T. -0.005 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

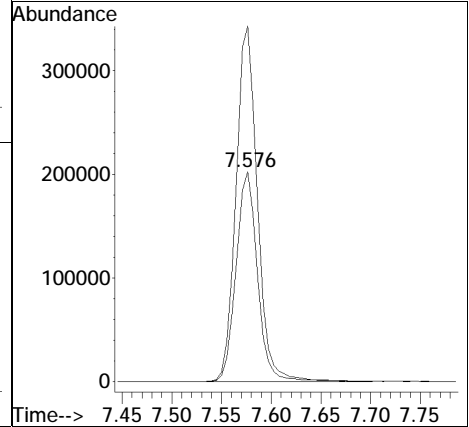
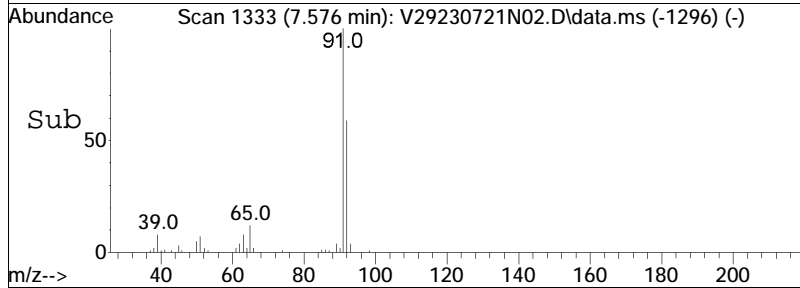
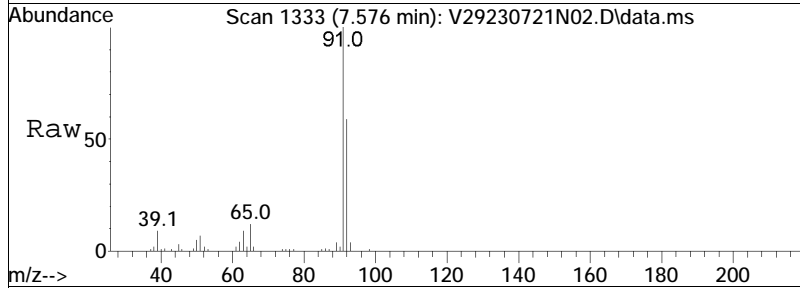
Tgt Ion:	75	Resp:	198522
Ion Ratio	Lower	Upper	
75	100		
77	31.3	25.0	37.4
39	45.9	50.1	75.1#

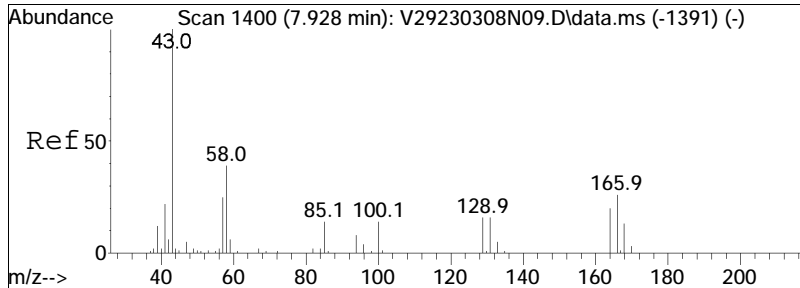




#61
 Toluene
 Concen: 38.39 ug/L
 RT: 7.576 min Scan# 1333
 Delta R.T. -0.006 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

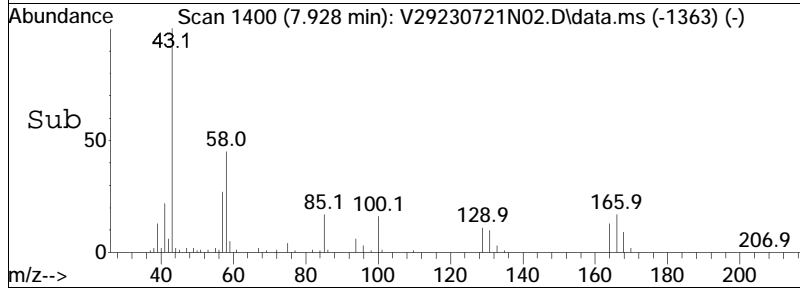
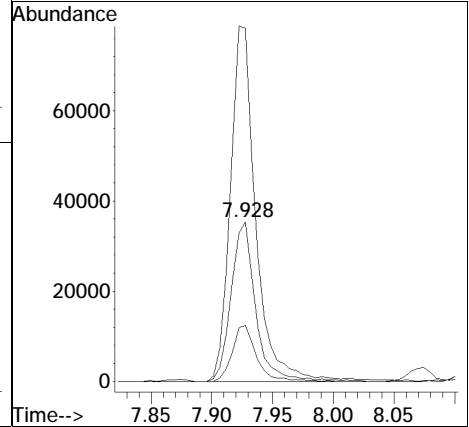
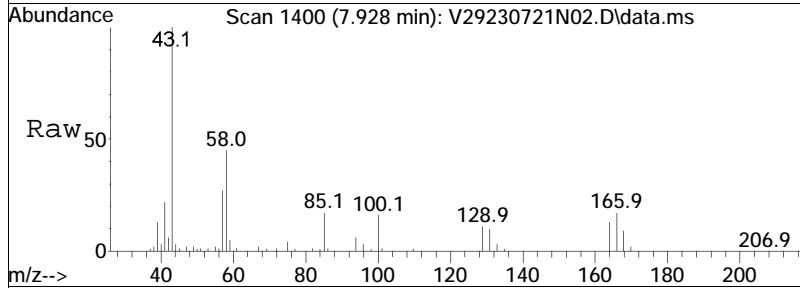
Tgt Ion	Resp	Lower	Upper
92	302629		
92	100		
91	169.8	139.8	209.6

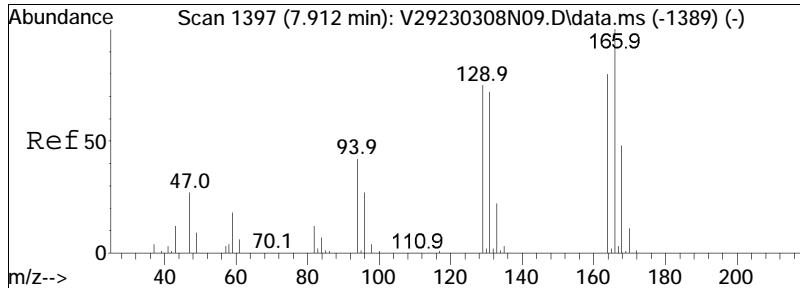




#62
 4-Methyl-2-pentanone
 Concen: 32.67 ug/L
 RT: 7.928 min Scan# 1400
 Delta R.T. -0.005 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

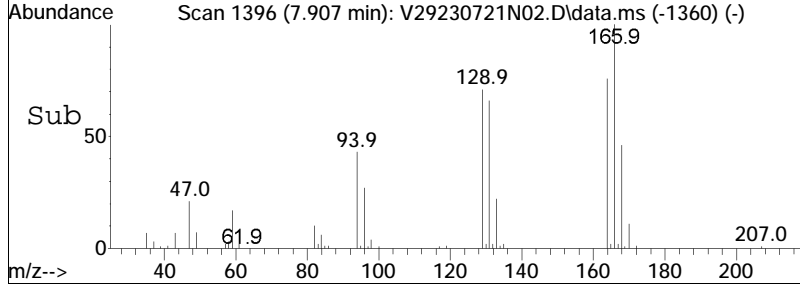
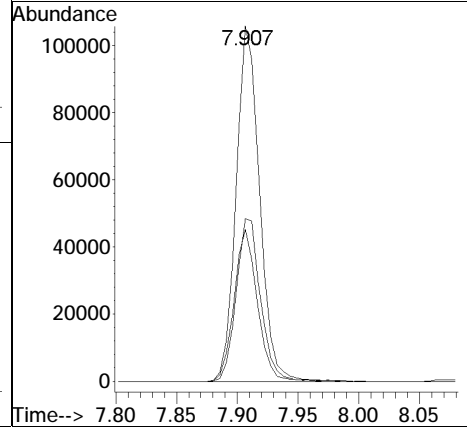
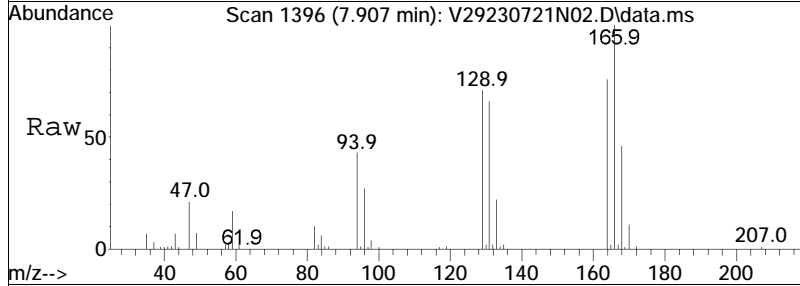
Tgt Ion	Resp	Lower	Upper
58	100		
100	34.3	20.2	30.2#
43	230.4	196.6	295.0

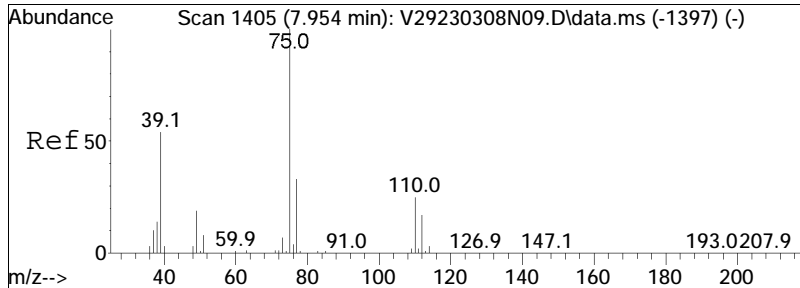




#63
 Tetrachloroethene
 Concen: 37.22 ug/L
 RT: 7.907 min Scan# 1396
 Delta R.T. -0.010 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

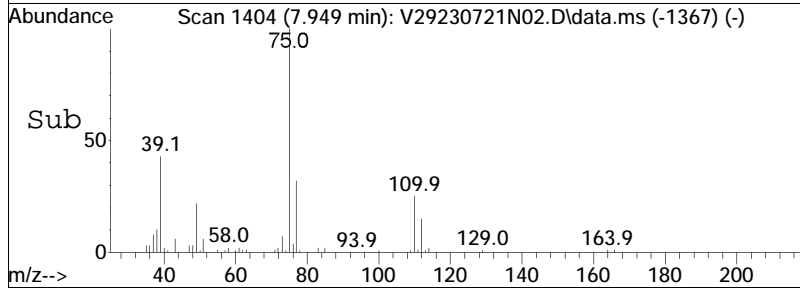
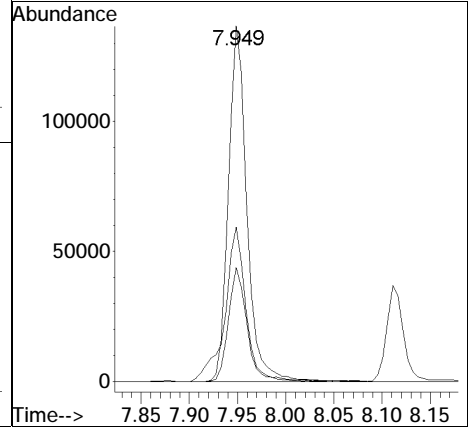
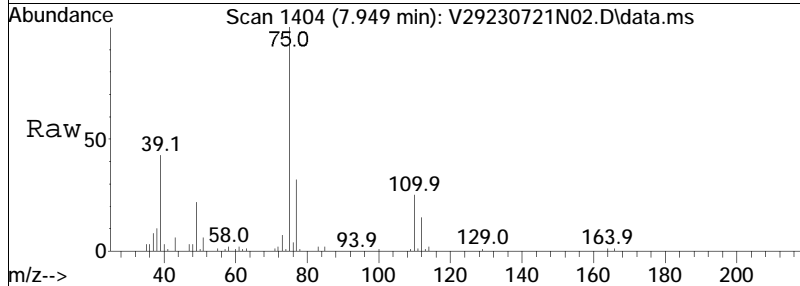
Tgt Ion	Ratio	Lower	Upper
166	100		
168	47.4	28.2	68.2
94	42.4	38.4	78.4

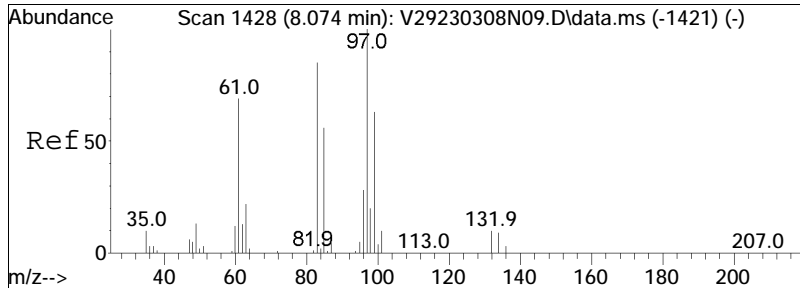




#65
 trans-1,3-Dichloropropene
 Concen: 36.65 ug/L
 RT: 7.949 min Scan# 1404
 Delta R.T. -0.005 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

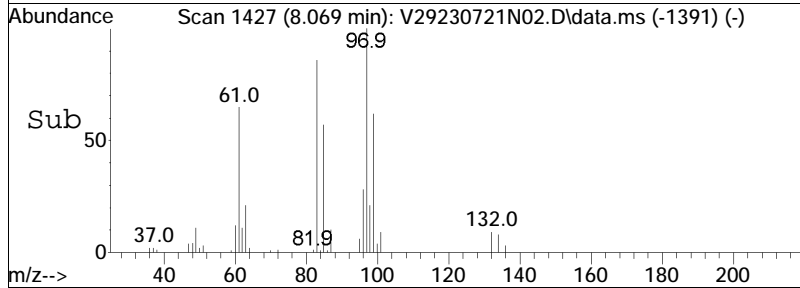
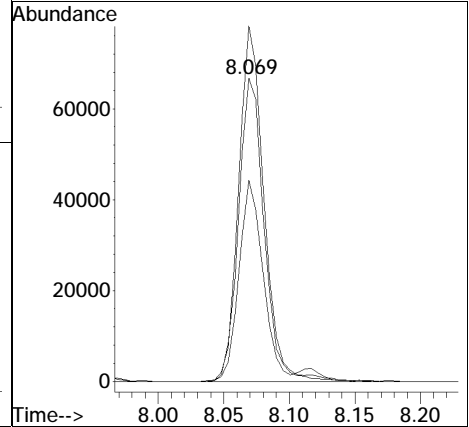
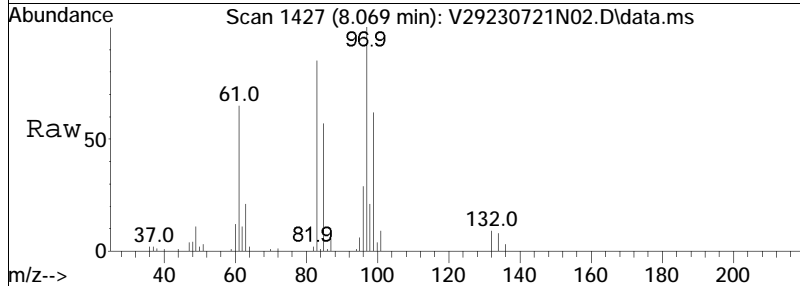
Tgt Ion	Resp	Lower	Upper
75	182341		
77	31.8	12.4	52.4
39	49.1	42.8	82.8

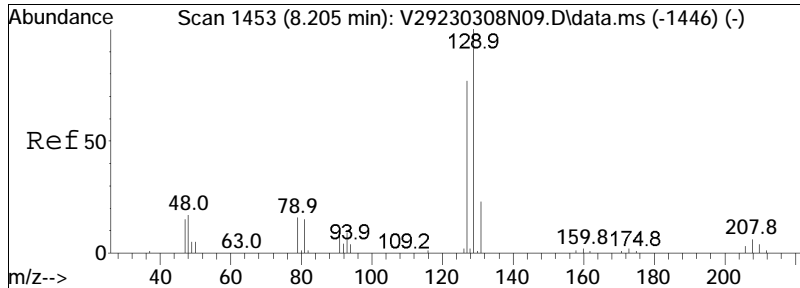




#68
 1,1,2-Trichloroethane
 Concen: 38.16 ug/L
 RT: 8.069 min Scan# 1427
 Delta R.T. -0.011 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

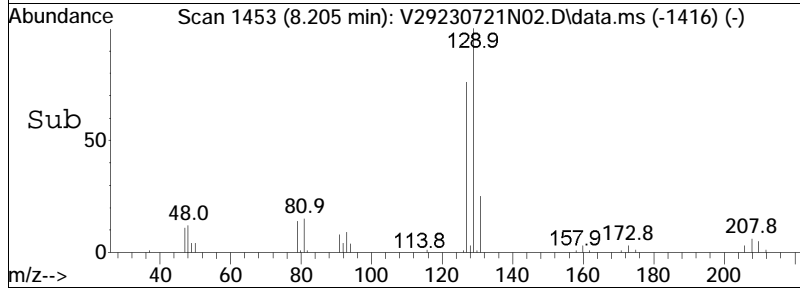
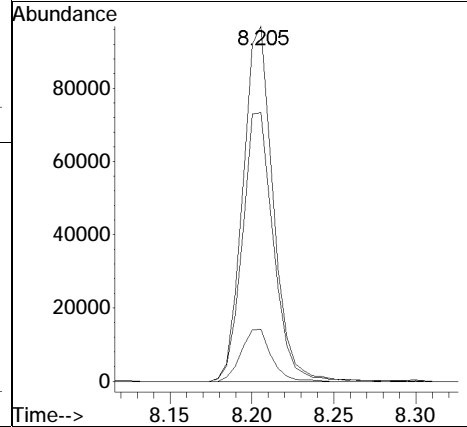
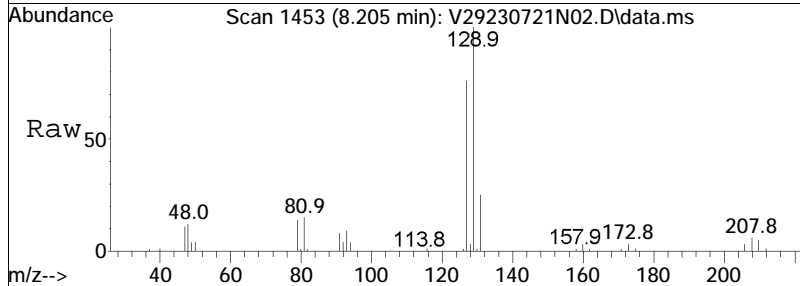
Tgt Ion	Resp	Lower	Upper
83	90531		
83	100		
97	116.3	89.8	129.8
85	62.7	44.4	84.4

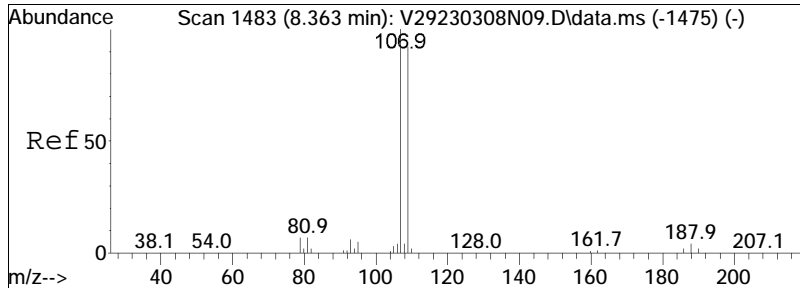




#69
 Chlorodibromomethane
 Concen: 36.26 ug/L
 RT: 8.205 min Scan# 1453
 Delta R.T. -0.006 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

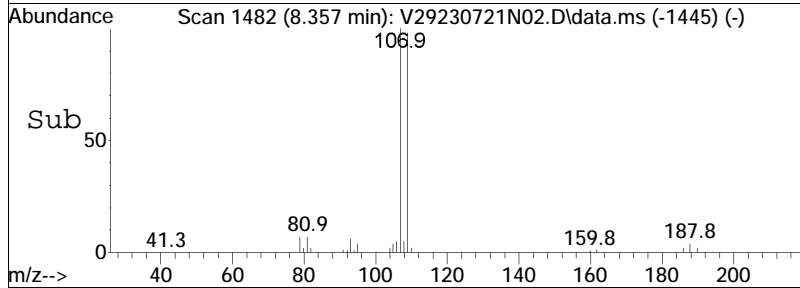
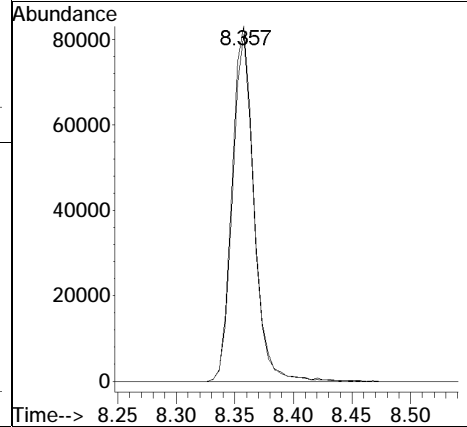
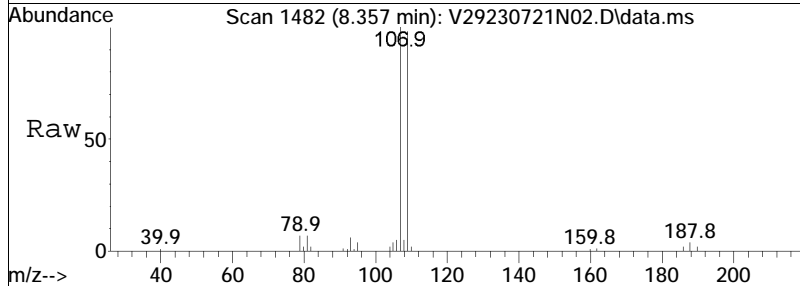
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	124515		
81	14.5		2.9	42.9
127	77.7		57.8	97.8

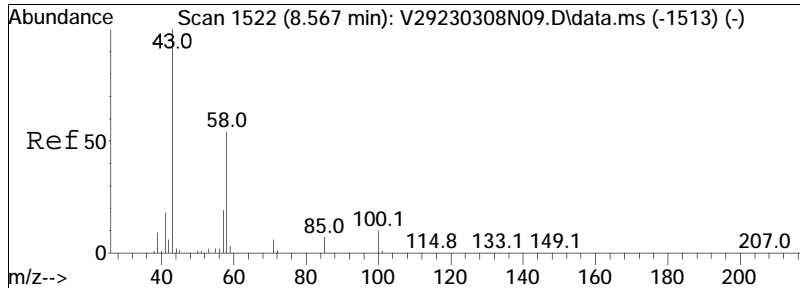




#71
 1,2-Dibromoethane
 Concen: 37.76 ug/L
 RT: 8.357 min Scan# 1482
 Delta R.T. -0.006 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

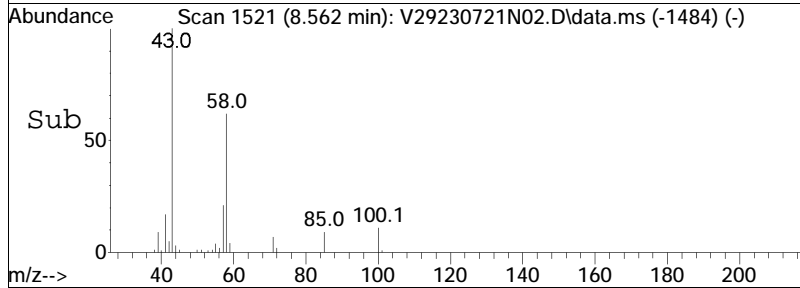
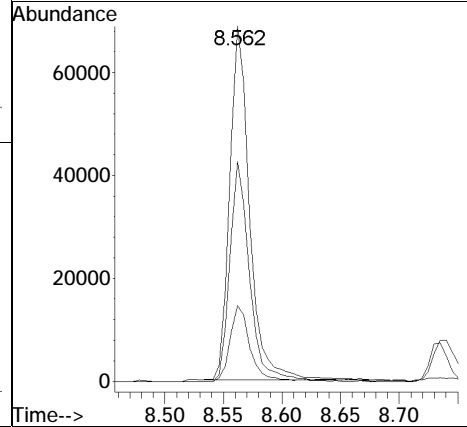
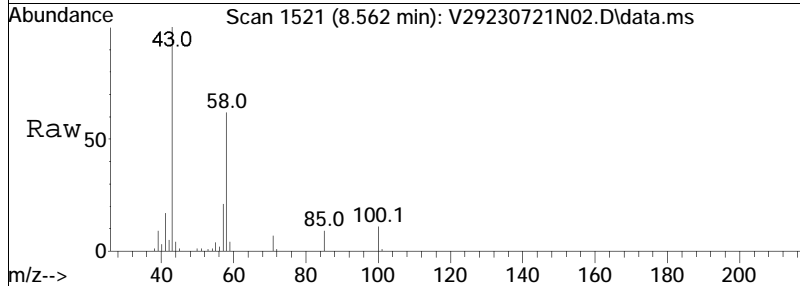
Tgt Ion	Resp	Lower	Upper
107	109130		
109	94.3	74.3	111.5

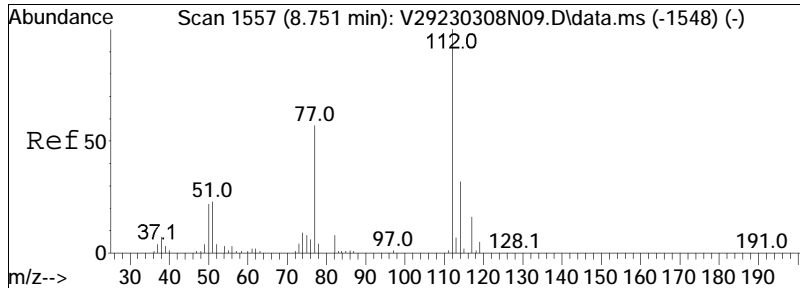




#72
 2-Hexanone
 Concen: 28.00 ug/L
 RT: 8.562 min Scan# 1521
 Delta R.T. -0.005 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

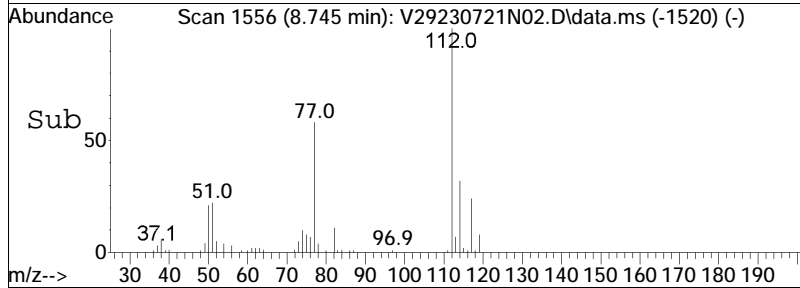
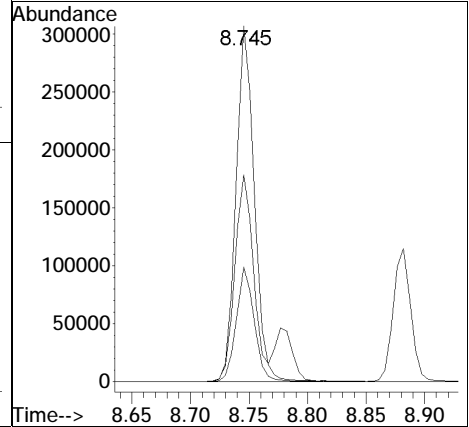
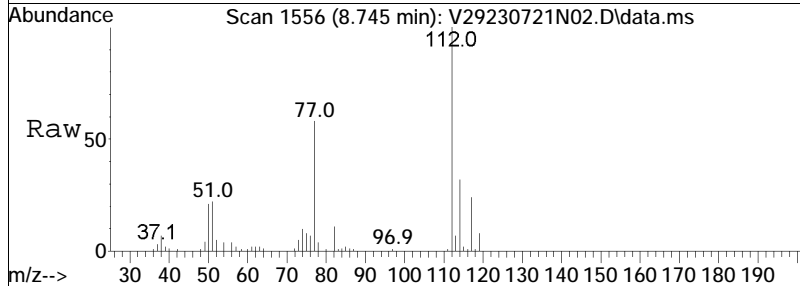
Tgt Ion:	43	Resp:	81614
Ion Ratio	100	Lower	Upper
58	61.1	41.2	61.8
57	21.8	17.2	25.8

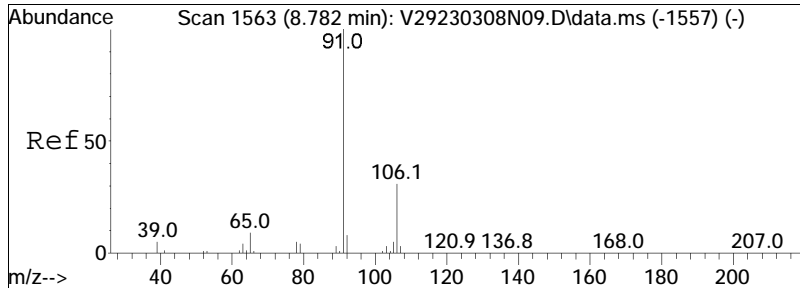




#73
 Chlorobenzene
 Concen: 37.42 ug/L
 RT: 8.745 min Scan# 1556
 Delta R.T. -0.011 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

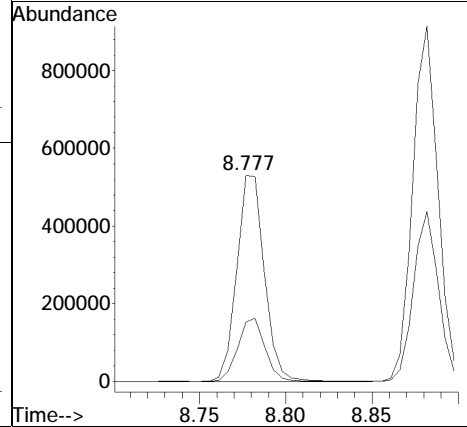
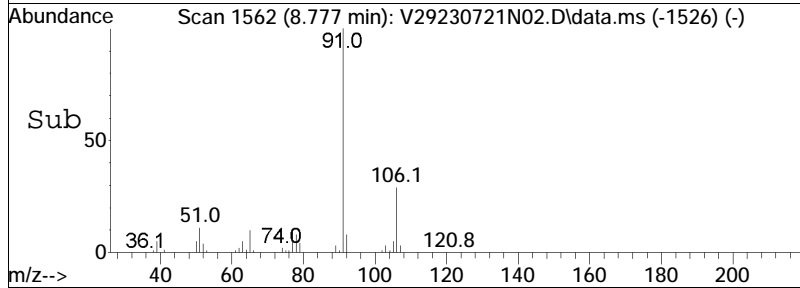
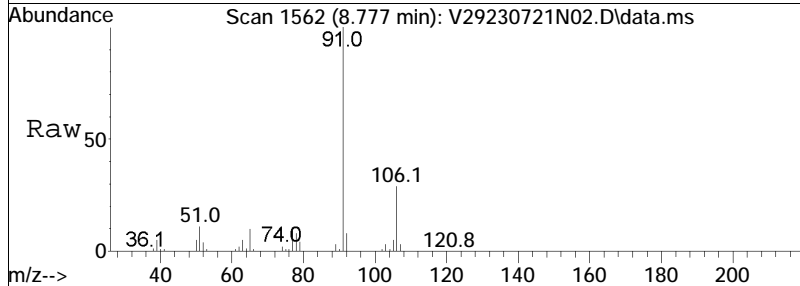
Tgt Ion	Resp	Lower	Upper
112	332948		
77	59.6	55.4	83.0
114	31.5	25.4	38.2

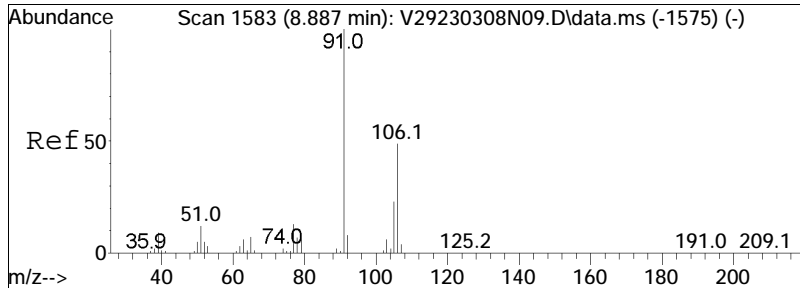




#74
 Ethylbenzene
 Concen: 39.96 ug/L
 RT: 8.777 min Scan# 1562
 Delta R.T. -0.010 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

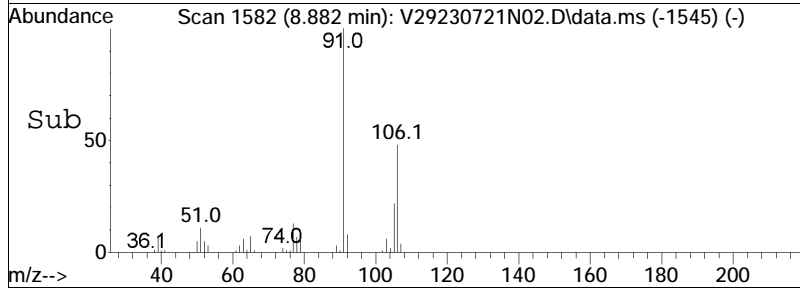
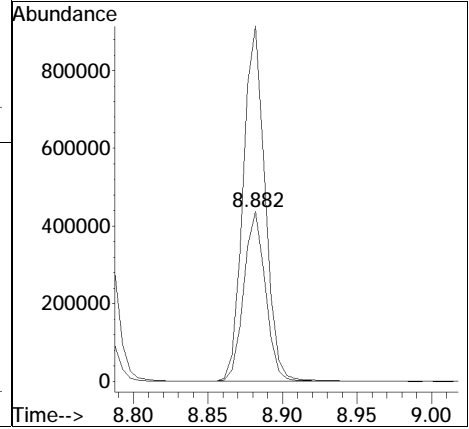
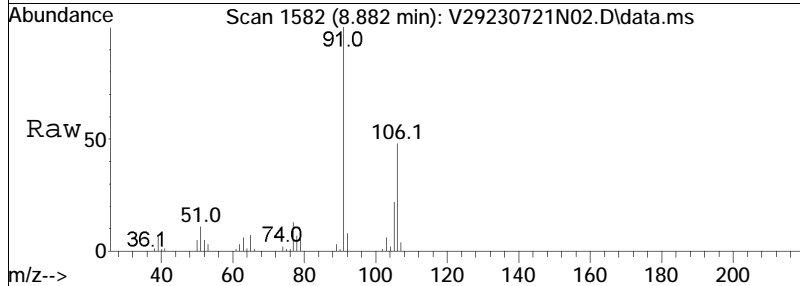
Tgt Ion	Resp	Lower	Upper
91	100		
106	30.2	24.3	36.5

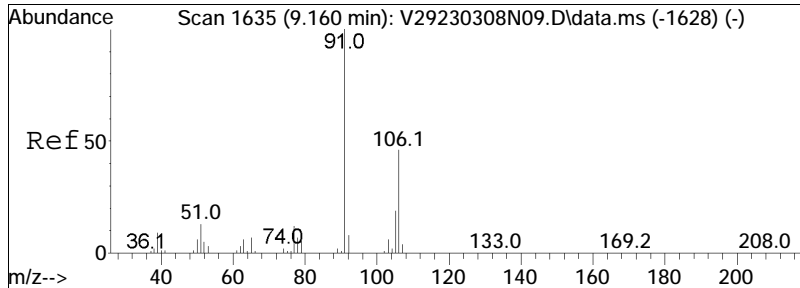




#76
 p/m Xylene
 Concen: 77.53 ug/L
 RT: 8.882 min Scan# 1582
 Delta R.T. -0.005 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

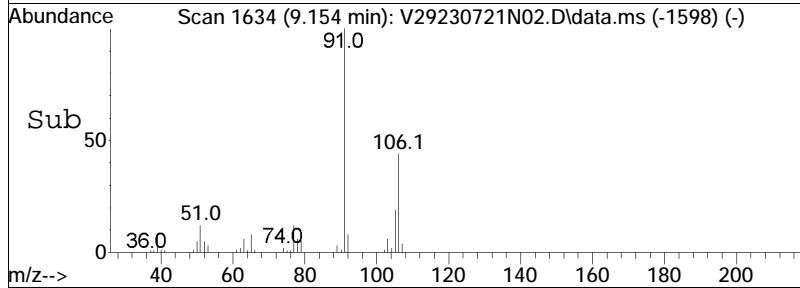
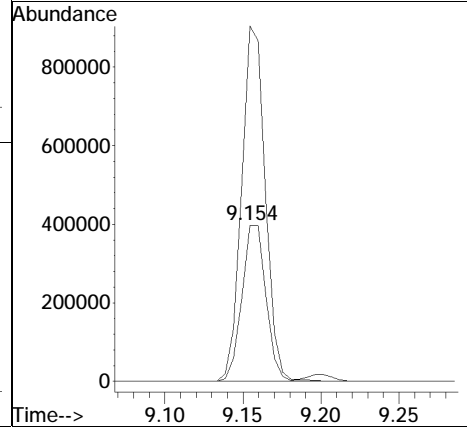
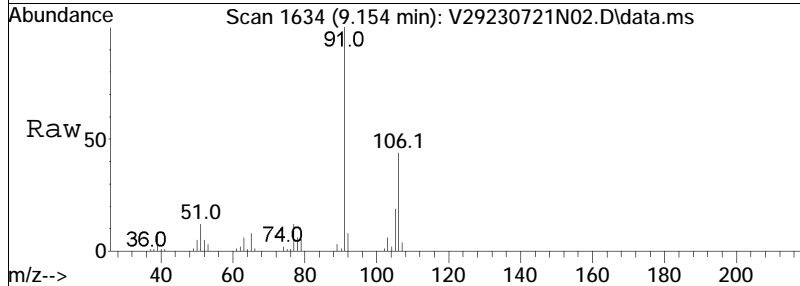
Tgt Ion	Resp	Lower	Upper
106	100		
91	211.6	166.4	249.6

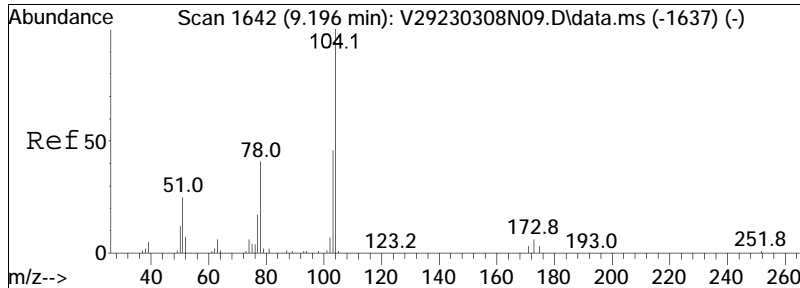




#77
 o Xylene
 Concen: 77.44 ug/L
 RT: 9.154 min Scan# 1634
 Delta R.T. -0.011 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

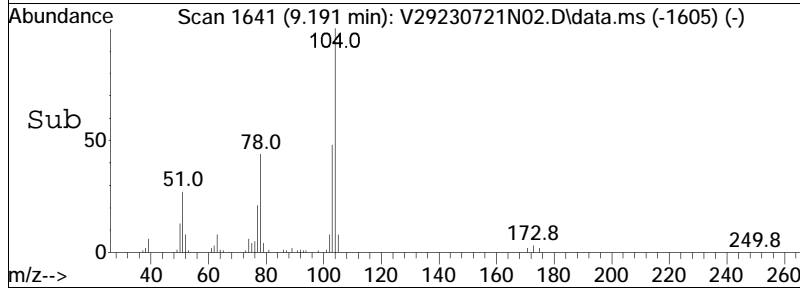
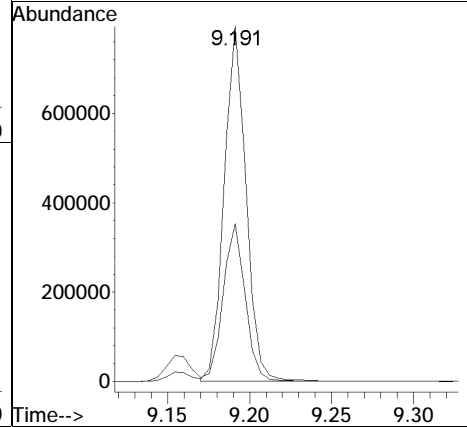
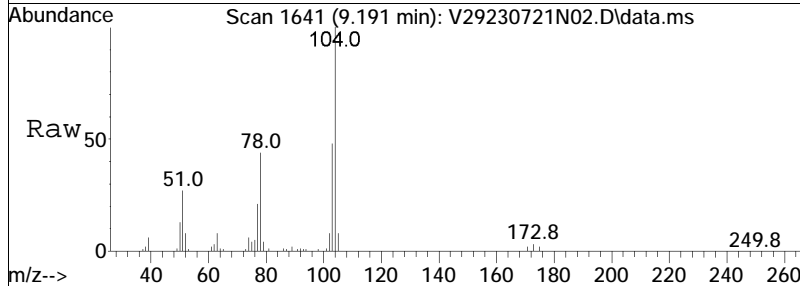
Tgt Ion	Ratio	Lower	Upper
106	100		
91	221.3	182.6	273.8

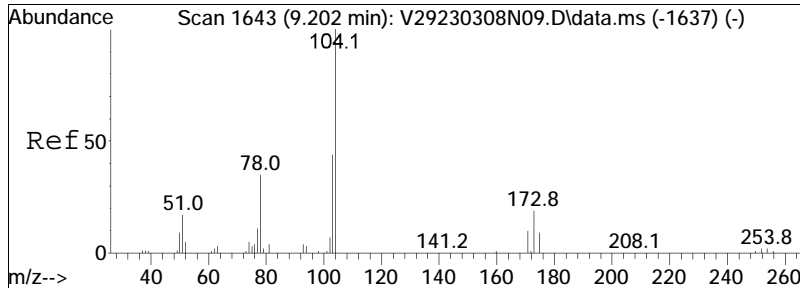




#78
 Styrene
 Concen: 79.25 ug/L
 RT: 9.191 min Scan# 1641
 Delta R.T. -0.011 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

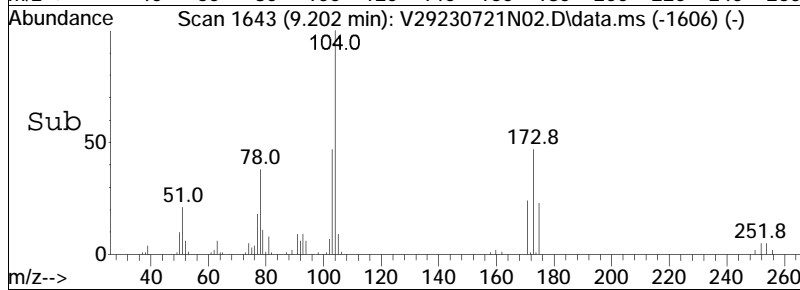
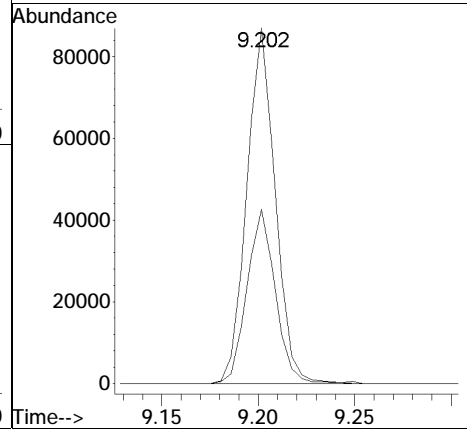
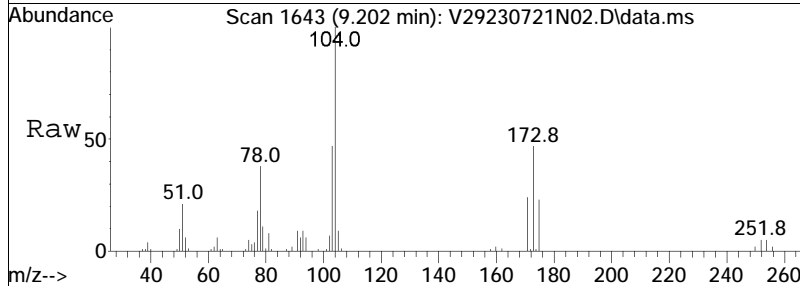
Tgt Ion	Resp	Lower	Upper
104	735311		
78	44.9	39.8	59.6

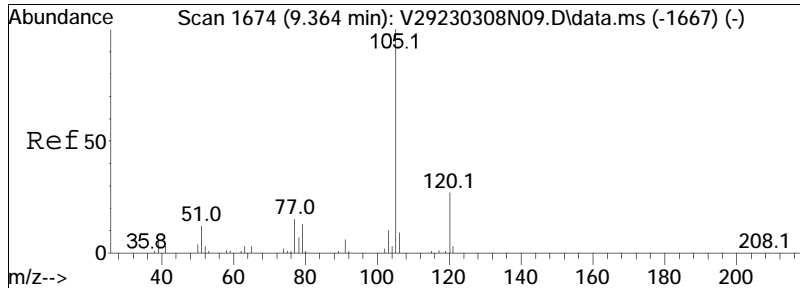




#80
 Bromoform
 Concen: 36.83 ug/L
 RT: 9.202 min Scan# 1643
 Delta R.T. -0.005 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

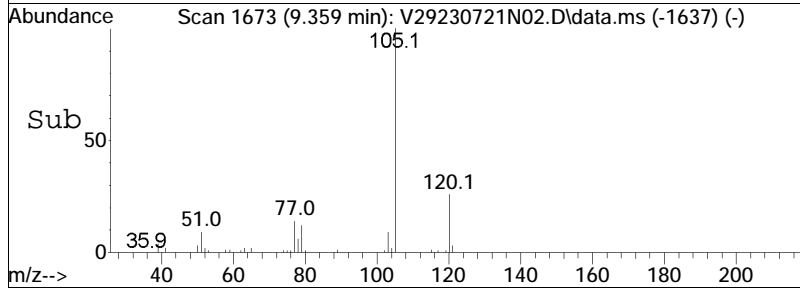
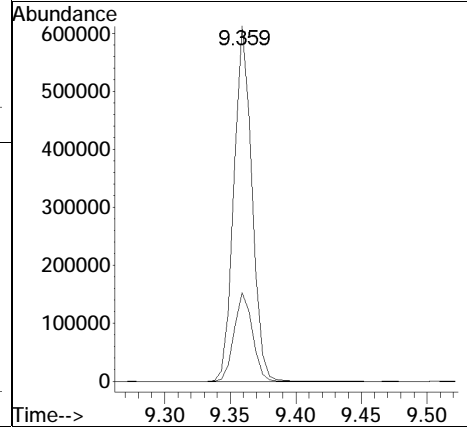
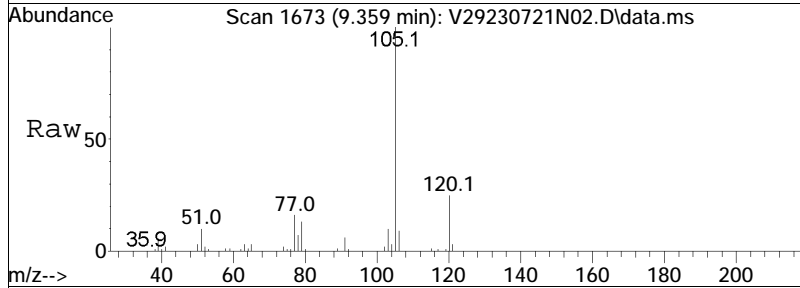
Tgt Ion	Resp	Lower	Upper
173	89056		
173	100		
175	48.6	31.5	71.5

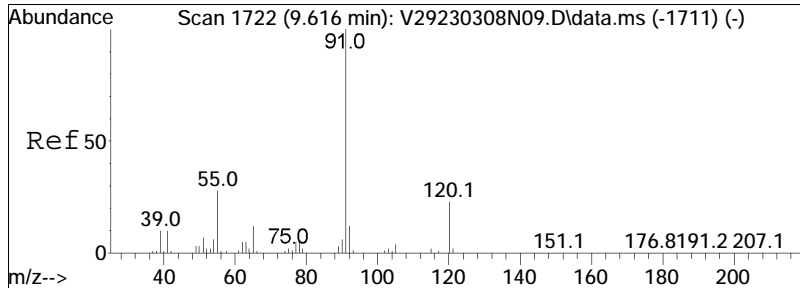




#82
 Isopropylbenzene
 Concen: 39.20 ug/L
 RT: 9.359 min Scan# 1673
 Delta R.T. -0.010 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

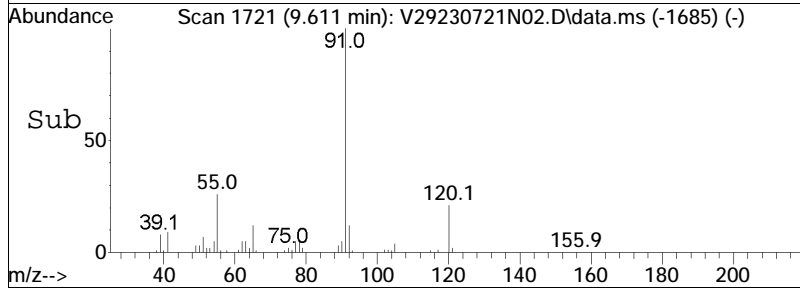
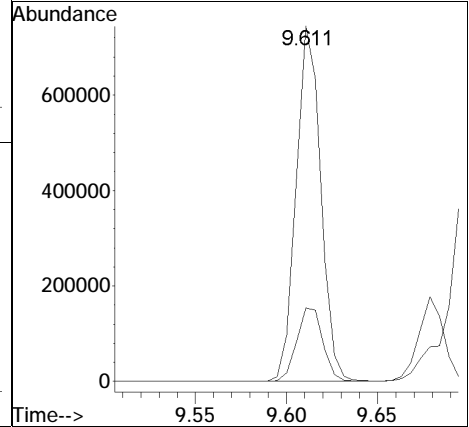
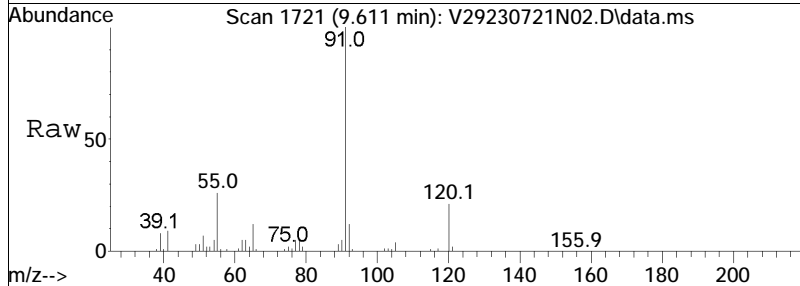
Tgt Ion	Resp	Lower	Upper
105	100		
120	25.4	4.8	44.8

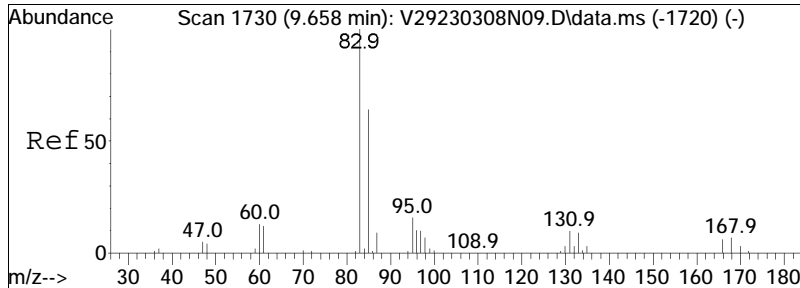




#85
 n-Propylbenzene
 Concen: 39.40 ug/L
 RT: 9.611 min Scan# 1721
 Delta R.T. -0.010 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

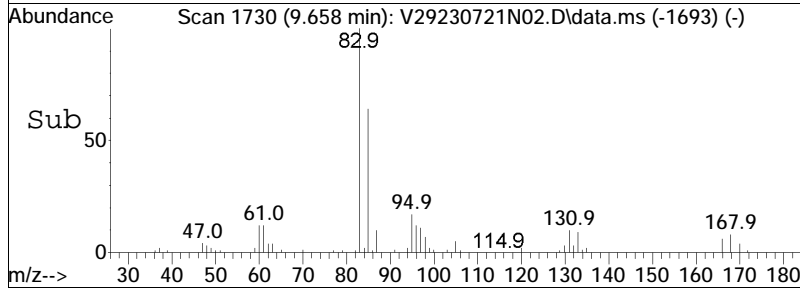
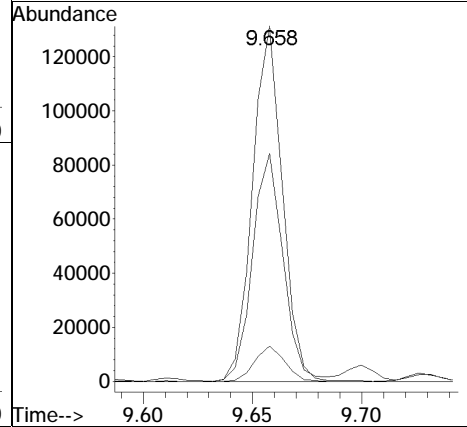
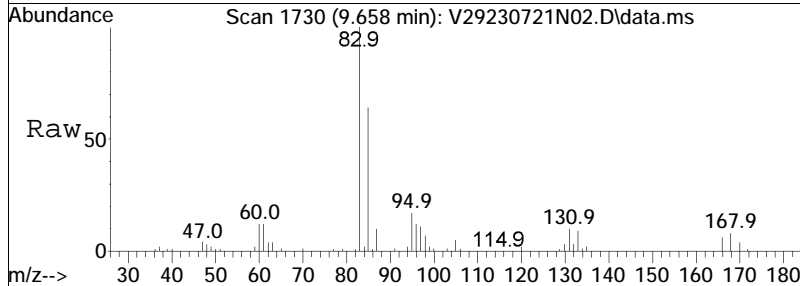
Tgt Ion	Resp	Lower	Upper
91	701389		
120	21.9	17.0	25.6

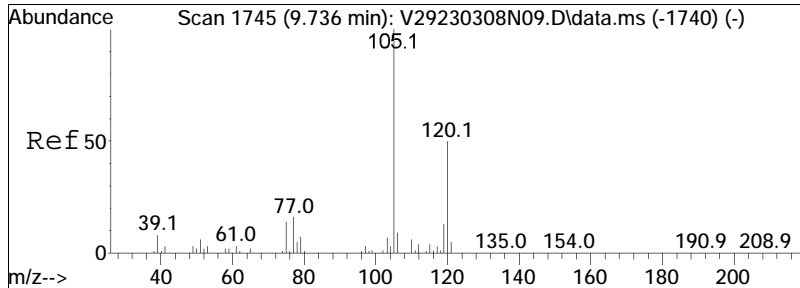




#87
 1,1,2,2-Tetrachloroethane
 Concen: 33.80 ug/L
 RT: 9.658 min Scan# 1730
 Delta R.T. -0.005 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

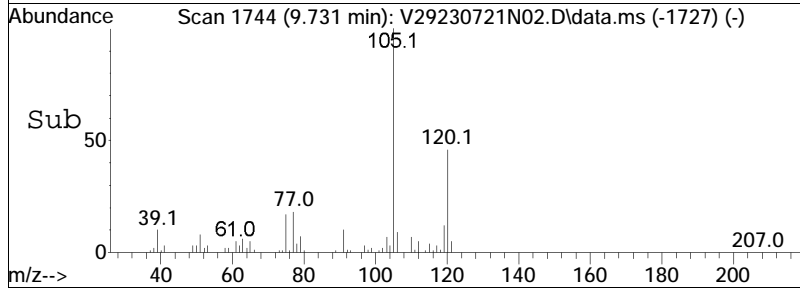
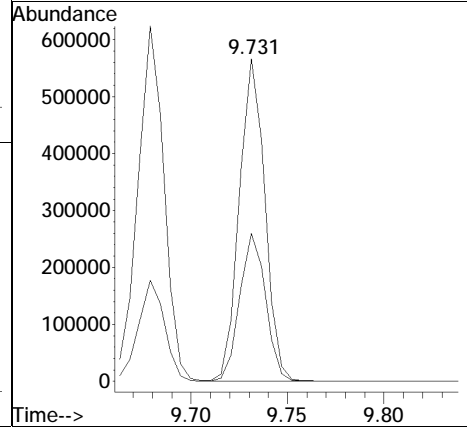
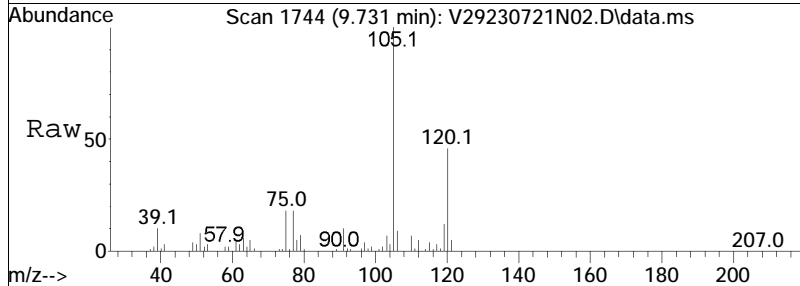
Tgt Ion	Resp	Lower	Upper
83	124907		
83	100		
131	10.1	0.0	30.4
85	65.8	45.4	85.4

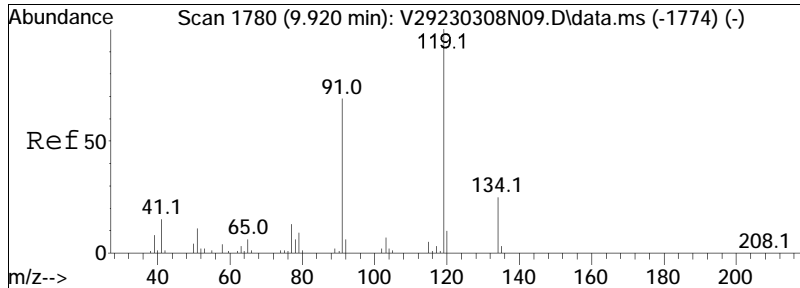




#90
 1,3,5-Trimethylbenzene
 Concen: 39.76 ug/L
 RT: 9.731 min Scan# 1744
 Delta R.T. -0.011 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

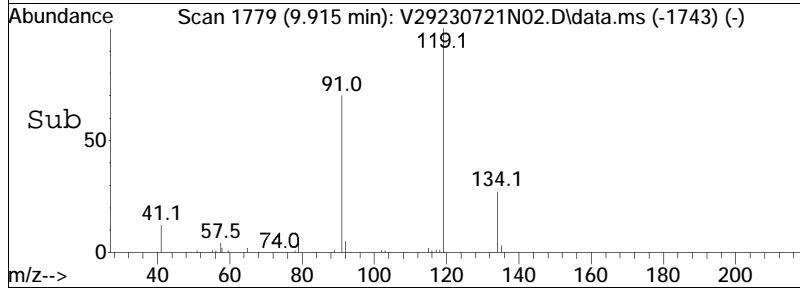
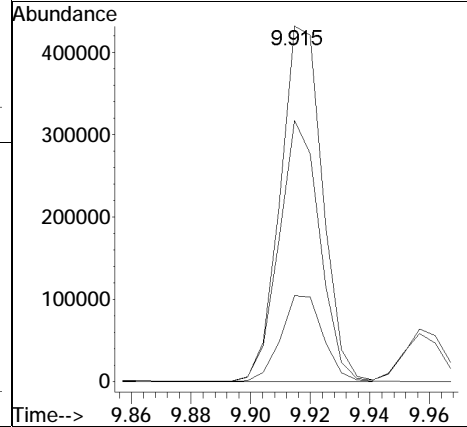
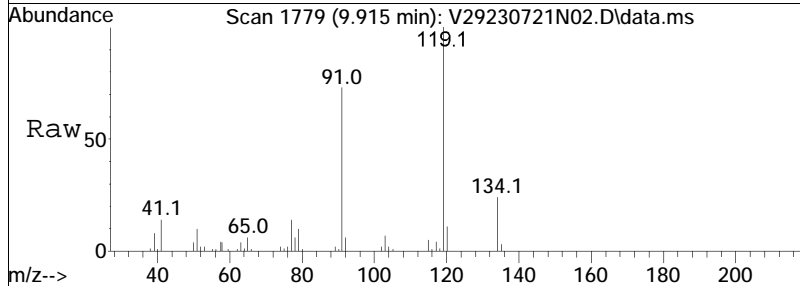
Tgt Ion	Resp	Lower	Upper
105	100		
120	46.5	34.8	52.2

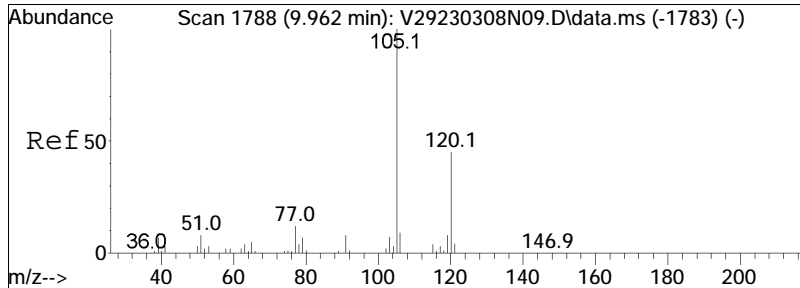




#94
 tert-Butylbenzene
 Concen: 37.99 ug/L
 RT: 9.915 min Scan# 1779
 Delta R.T. -0.010 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

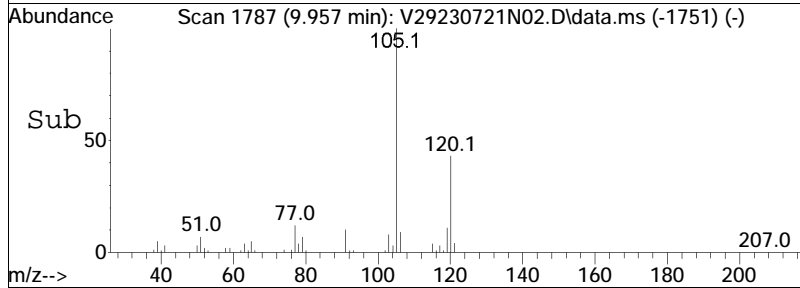
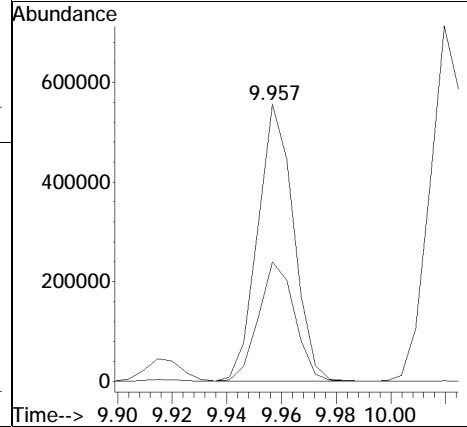
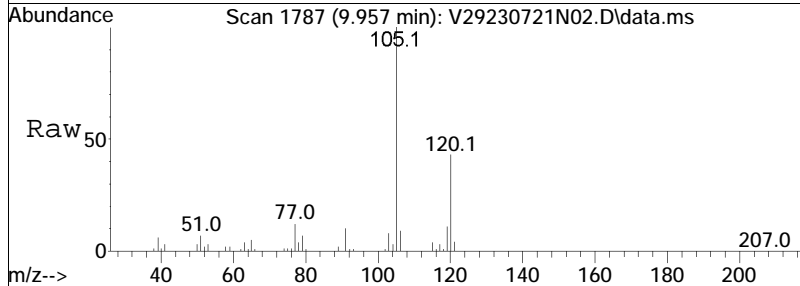
Tgt Ion	Resp	Lower	Upper
119	100		
91	70.7	51.4	77.2
134	24.1	18.3	27.5

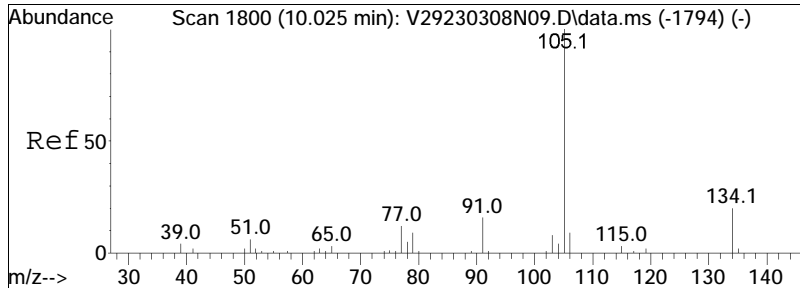




#97
 1,2,4-Trimethylbenzene
 Concen: 38.72 ug/L
 RT: 9.957 min Scan# 1787
 Delta R.T. -0.010 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

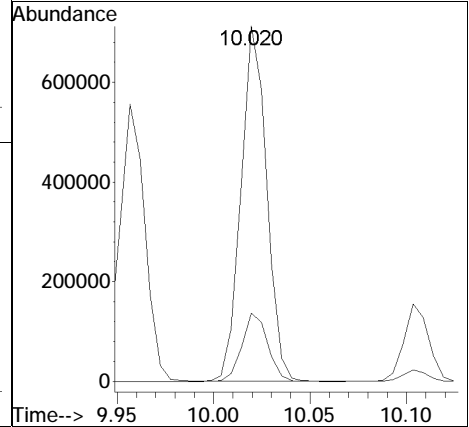
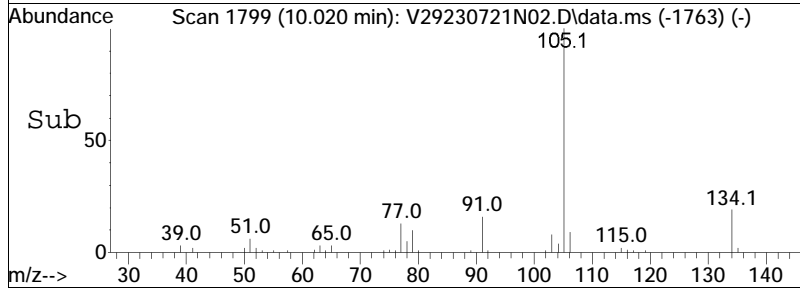
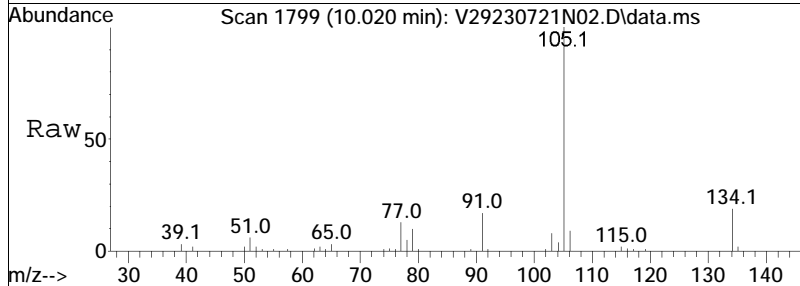
Tgt Ion	Resp	Lower	Upper
105	100		
120	43.7	33.4	50.0

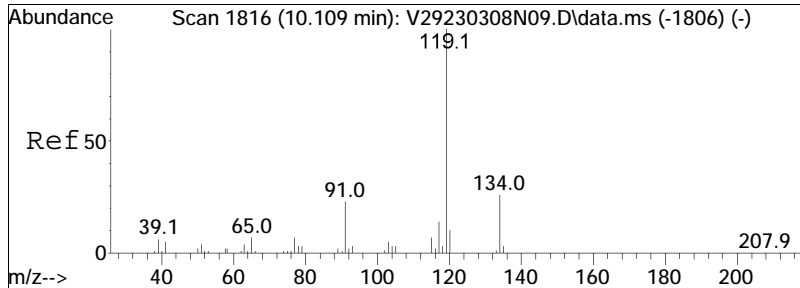




#98
 sec-Butylbenzene
 Concen: 40.44 ug/L
 RT: 10.020 min Scan# 1799
 Delta R.T. -0.010 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

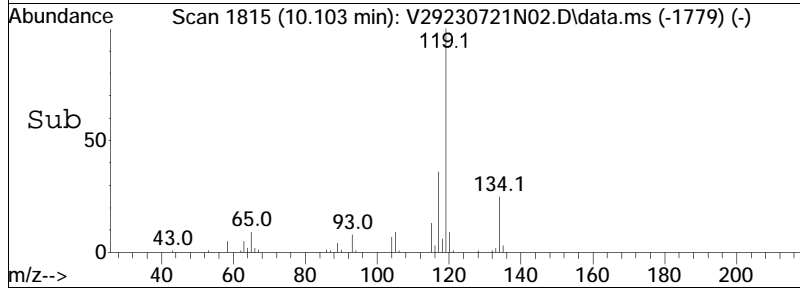
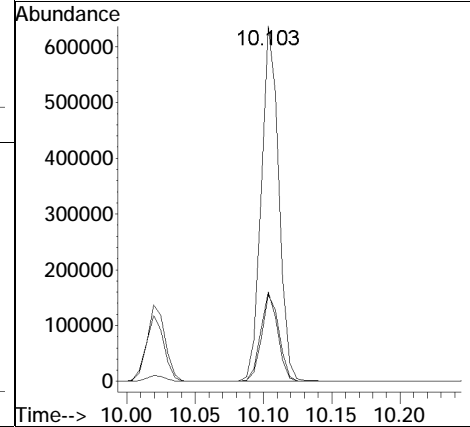
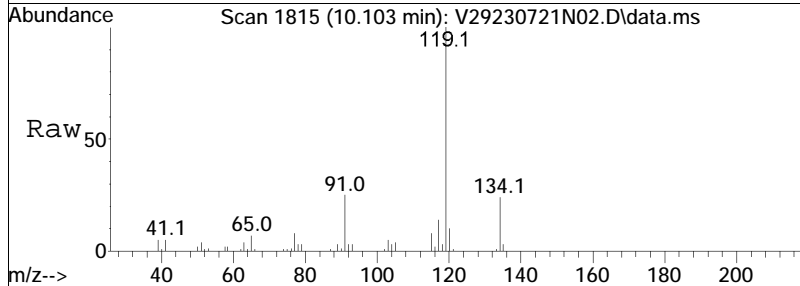
Tgt Ion	Resp	Lower	Upper
105	100		
134	19.2	12.5	26.1

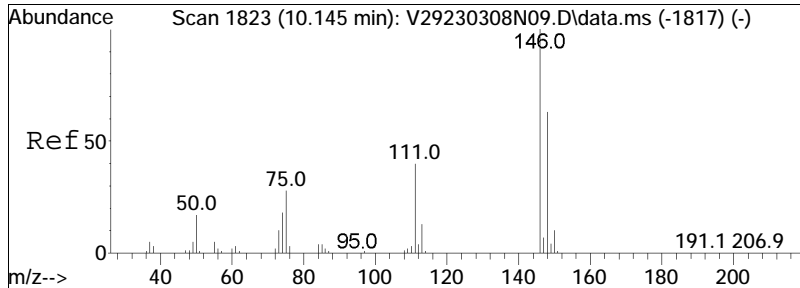




#99
 p-Isopropyltoluene
 Concen: 39.18 ug/L
 RT: 10.103 min Scan# 1815
 Delta R.T. -0.011 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

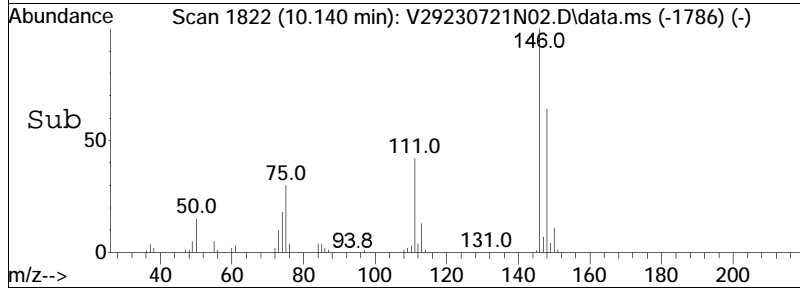
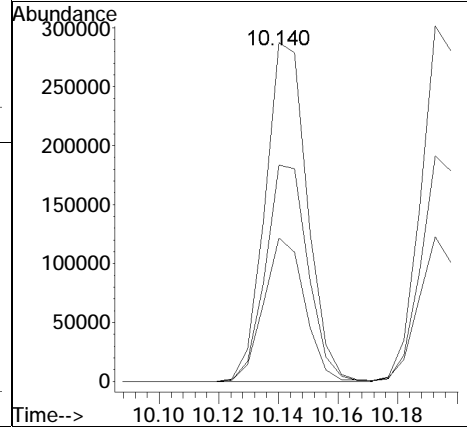
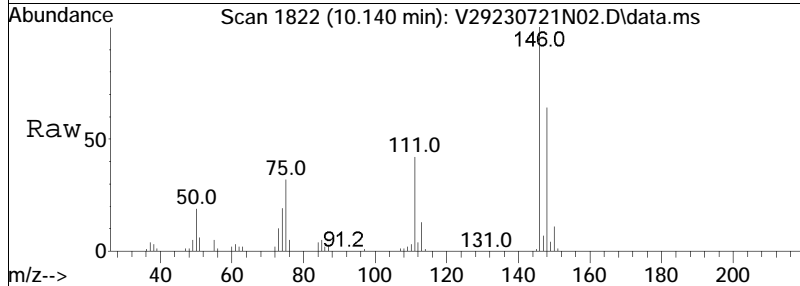
Tgt Ion	Resp	Lower	Upper
119	100		
134	24.5	16.1	33.3
91	24.6	17.3	35.9

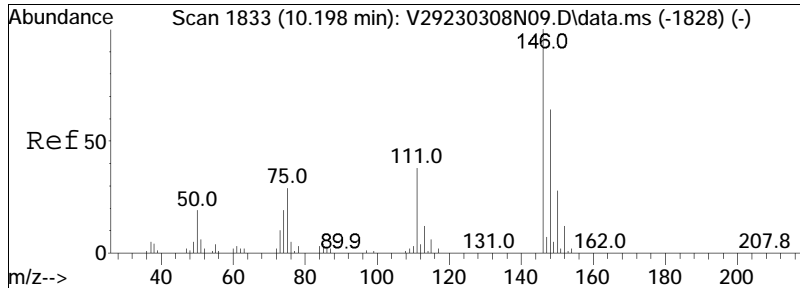




#100
 1,3-Dichlorobenzene
 Concen: 36.66 ug/L
 RT: 10.140 min Scan# 1822
 Delta R.T. -0.011 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

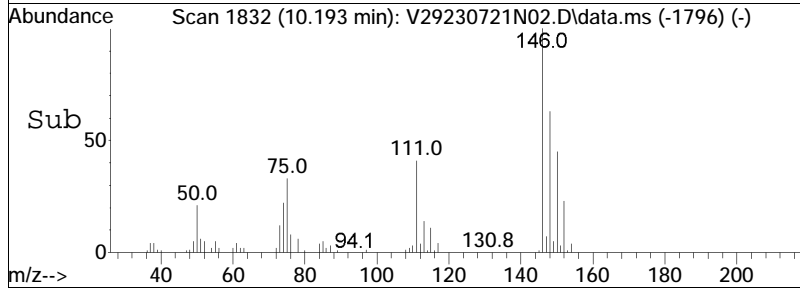
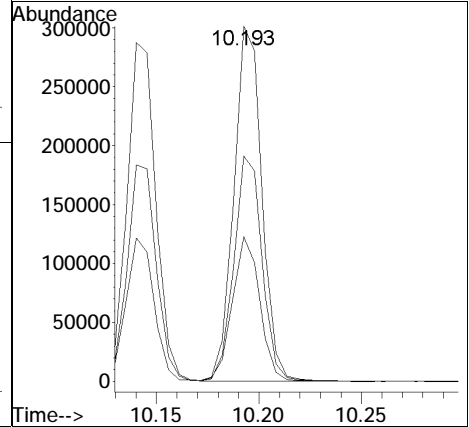
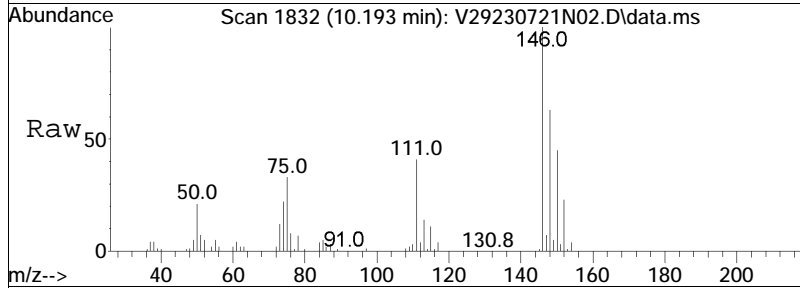
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.4	27.5	57.1
148	64.4	41.9	86.9

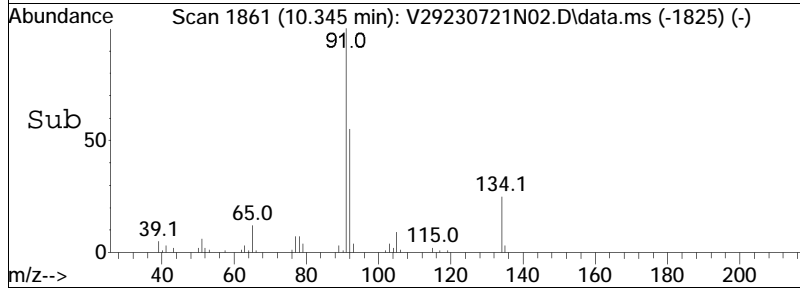
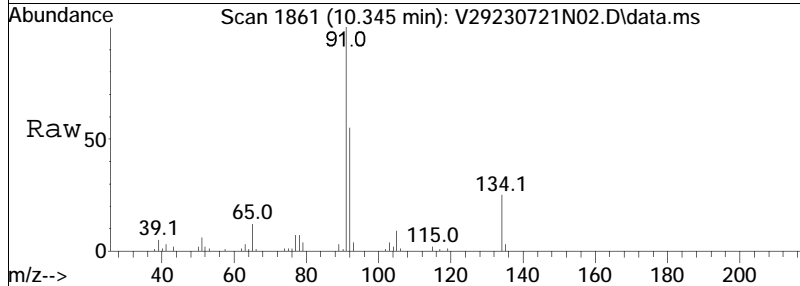
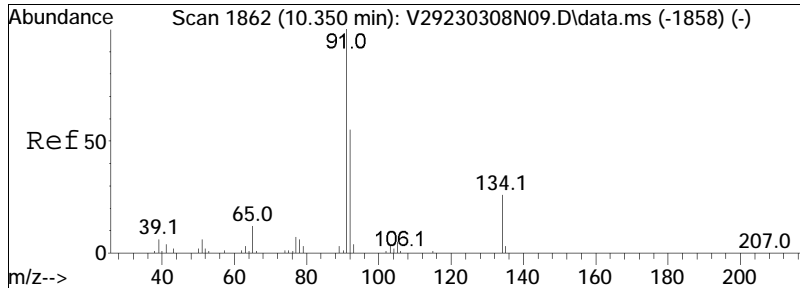




#101
 1,4-Dichlorobenzene
 Concen: 36.45 ug/L
 RT: 10.193 min Scan# 1832
 Delta R.T. -0.010 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

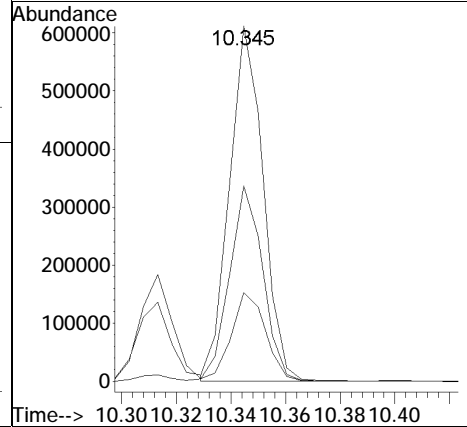
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	32.3	48.5
148	64.1	49.9	74.9

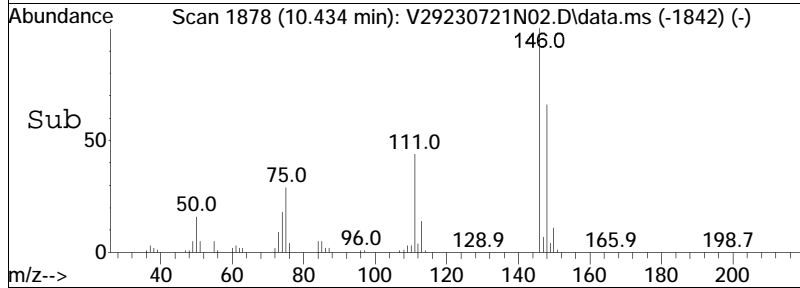
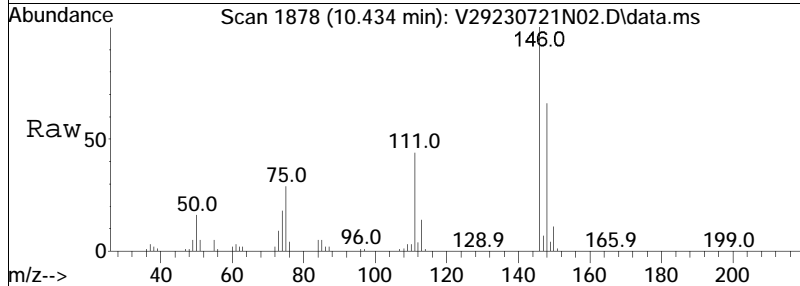
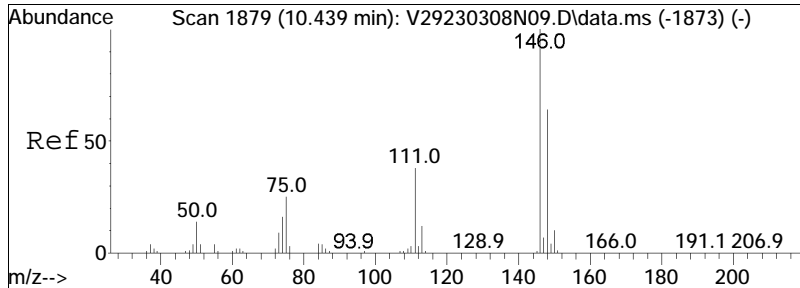




#103
 n-Butylbenzene
 Concen: 41.42 ug/L
 RT: 10.345 min Scan# 1861
 Delta R.T. -0.010 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

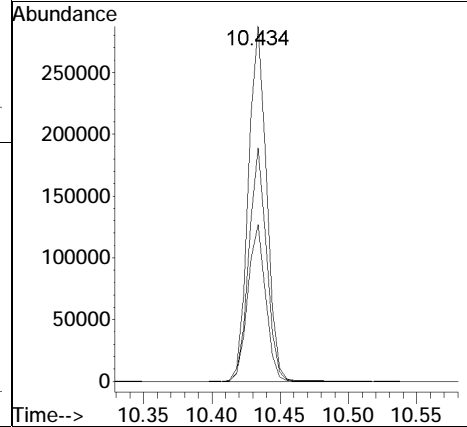
Tgt Ion:	91	Resp:	524796
Ion Ratio	Lower	Upper	
91	100		
92	54.8	43.0	64.4
134	25.4	19.6	29.4

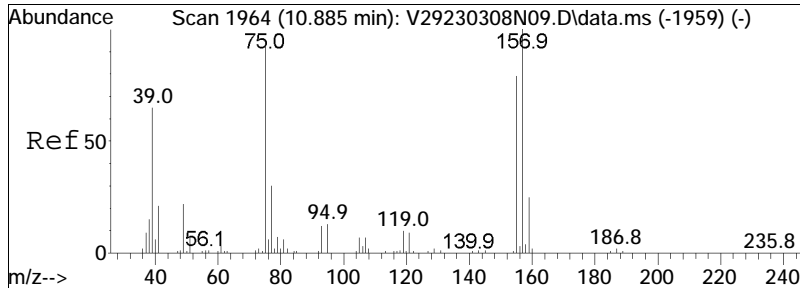




#104
 1,2-Dichlorobenzene
 Concen: 36.28 ug/L
 RT: 10.434 min Scan# 1878
 Delta R.T. -0.010 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

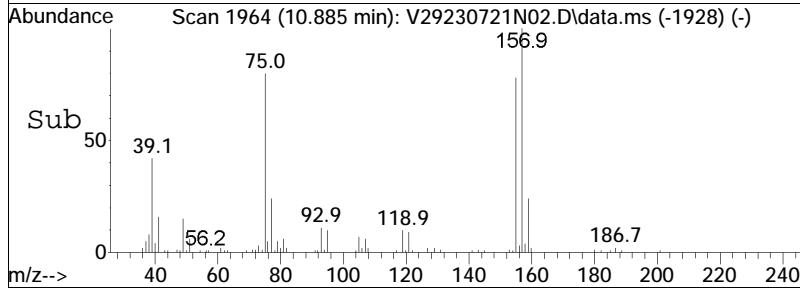
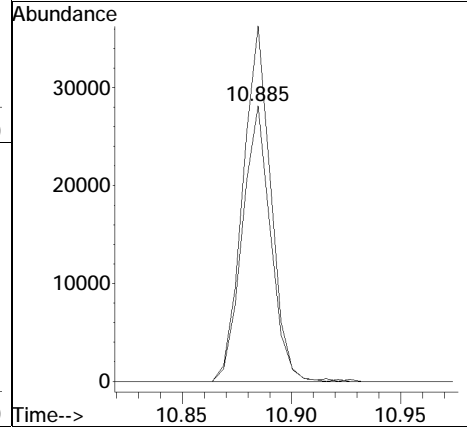
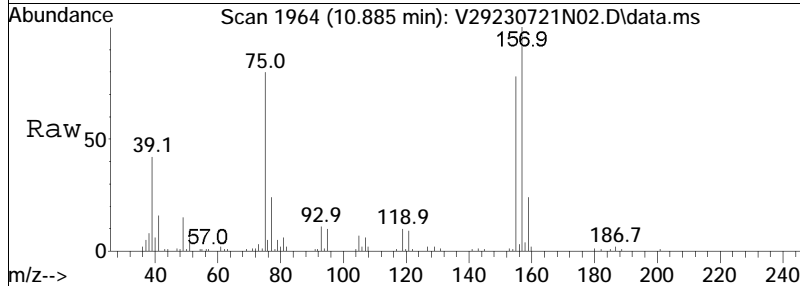
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.4	28.3	58.7
148	63.5	42.3	87.8

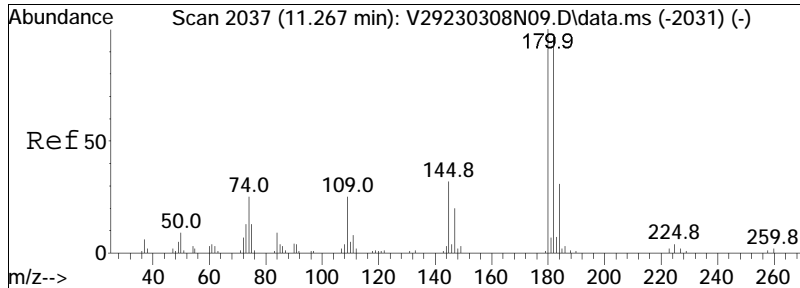




#106
 1,2-Dibromo-3-chloropropane
 Concen: 34.05 ug/L
 RT: 10.885 min Scan# 1964
 Delta R.T. -0.010 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

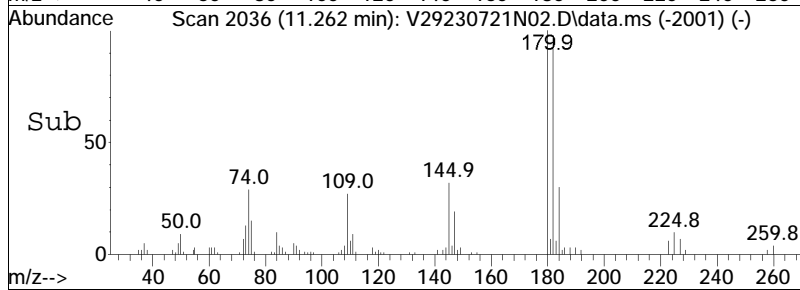
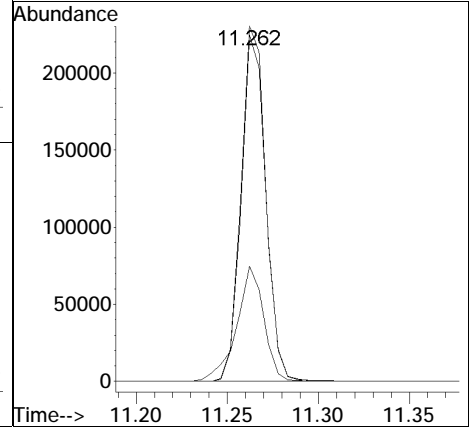
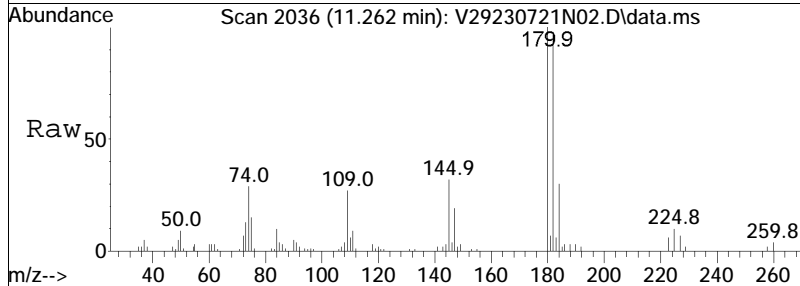
Tgt Ion	Resp	Lower	Upper
155	25420		
157	126.3	94.8	142.2

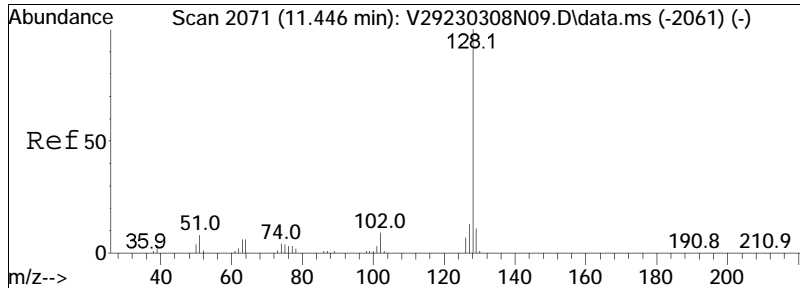




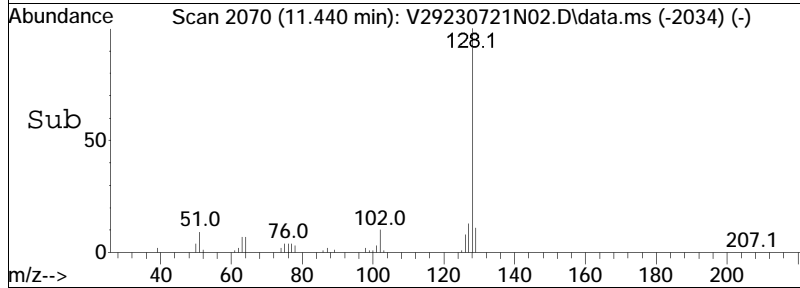
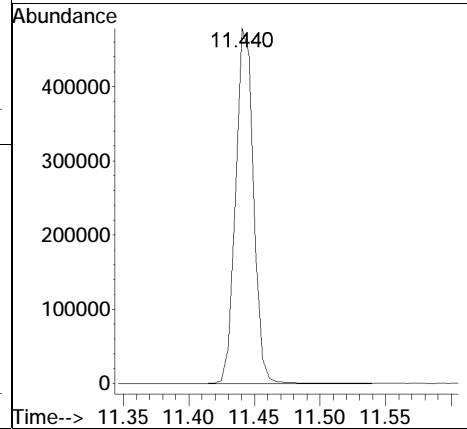
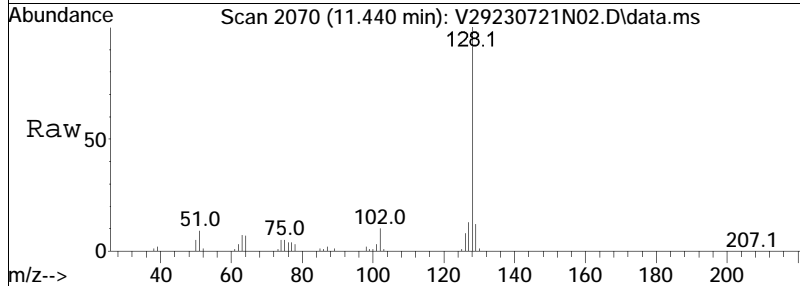
#109
 1,2,4-Trichlorobenzene
 Concen: 39.12 ug/L
 RT: 11.262 min Scan# 2036
 Delta R.T. -0.016 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	77.3	115.9
145	35.6	28.1	42.1





#110
 Naphthalene
 Concen: 35.10 ug/L
 RT: 11.440 min Scan# 2070
 Delta R.T. -0.011 min
 Lab File: V29230721N02.D
 Acq: 21 Jul 2023 06:57 pm
 Tgt Ion:128 Resp: 453321



Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N03.D
 Acq On : 21 Jul 2023 07:18 pm
 Operator : VOA129:LAC
 Sample : WG1806697-4,31,5,5
 Misc : WG1806697,ICAL19799
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 21 20:24:43 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.893	96	263036	20.000	ug/L	0.00
Standard Area 1 = 283796			Recovery =	92.68%		
59) Chlorobenzene-d5	8.735	117	207407	20.000	ug/L	0.00
Standard Area 1 = 220595			Recovery =	94.02%		
79) 1,4-Dichlorobenzene-d4	10.187	152	111694	20.000	ug/L	0.00
Standard Area 1 = 120931			Recovery =	92.36%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.965	113	67254	19.434	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	97.17%		
43) 1,2-Dichloroethane-d4	5.558	65	76749	19.973	ug/L	-0.01
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.86%		
60) Toluene-d8	7.529	98	267367	19.832	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.16%		
83) 4-Bromofluorobenzene	9.527	95	103972	20.710	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	103.55%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.070	85	110177	38.557	ug/L	# 95
3) Chloromethane	1.222	50	111235	27.400	ug/L	98
4) Vinyl chloride	1.269	62	118143	35.258	ug/L	96
5) Bromomethane	1.500	94	87325	50.125	ug/L	99
6) Chloroethane	1.599	64	70271	37.199	ug/L	97
7) Trichlorofluoromethane	1.715	101	171060	43.730	ug/L	98
10) 1,1-Dichloroethene	2.129	96	101012	42.919	ug/L	# 71
11) Carbon disulfide	2.134	76	333633	39.892	ug/L	97
12) Freon-113	2.176	101	115474	44.575	ug/L	95
15) Methylene chloride	2.679	84	122812	40.113	ug/L	74
17) Acetone	2.737	43	35128	41.302	ug/L	90
18) trans-1,2-Dichloroethene	2.852	96	117509	40.863	ug/L	84
19) Methyl acetate	2.894	43	78102	35.965	ug/L	# 92
20) Methyl tert-butyl ether	3.004	73	310758	43.113	ug/L	95
23) 1,1-Dichloroethane	3.576	63	229472	41.375	ug/L	99
28) cis-1,2-Dichloroethene	4.347	96	126999	39.580	ug/L	# 77
31) Cyclohexane	4.593	56	253429	41.705	ug/L	86
32) Chloroform	4.745	83	212650	41.488	ug/L	94
34) Carbon tetrachloride	4.876	117	171791	42.241	ug/L	98
37) 1,1,1-Trichloroethane	4.955	97	196170	45.611	ug/L	# 96

Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N03.D
 Acq On : 21 Jul 2023 07:18 pm
 Operator : VOA129:LAC
 Sample : WG1806697-4,31,5,5
 Misc : WG1806697,ICAL19799
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 21 20:24:43 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2-Butanone	5.128	43	48804	25.162	ug/L	# 39
41) Benzene	5.406	78	451277	41.086	ug/L	94
44) 1,2-Dichloroethane	5.642	62	168275	39.903	ug/L	97
47) Methyl cyclohexane	6.066	83	217430	41.956	ug/L	85
48) Trichloroethene	6.087	95	137526	43.968	ug/L	99
51) 1,2-Dichloropropane	6.617	63	131581	37.087	ug/L	95
54) Bromodichloromethane	6.722	83	167259	40.826	ug/L	97
58) cis-1,3-Dichloropropene	7.356	75	192006	38.331	ug/L	# 85
61) Toluene	7.576	92	292856	38.326	ug/L	98
62) 4-Methyl-2-pentanone	7.928	58	45894	31.057	ug/L	# 88
63) Tetrachloroethene	7.907	166	137472	37.143	ug/L	88
65) trans-1,3-Dichloropropene	7.949	75	174509	36.183	ug/L	87
68) 1,1,2-Trichloroethane	8.069	83	86129	37.450	ug/L	93
69) Chlorodibromomethane	8.206	129	119486	35.894	ug/L	95
71) 1,2-Dibromoethane	8.358	107	104602	37.334	ug/L	98
72) 2-Hexanone	8.562	43	76654	27.129	ug/L	92
73) Chlorobenzene	8.746	112	323850	37.547	ug/L	92
74) Ethylbenzene	8.782	91	572319	40.067	ug/L	100
76) p/m Xylene	8.882	106	433336	78.379	ug/L	99
77) o Xylene	9.155	106	427948	79.497	ug/L	95
78) Styrene	9.191	104	702732	78.127	ug/L	94
80) Bromoform	9.202	173	85220	37.371	ug/L	97
82) Isopropylbenzene	9.359	105	578141	41.066	ug/L	99
85) n-Propylbenzene	9.611	91	689628	41.082	ug/L	98
87) 1,1,2,2-Tetrachloroethane	9.658	83	117890	33.829	ug/L	98
90) 1,3,5-Trimethylbenzene	9.731	105	510553	41.137	ug/L	95
94) tert-Butylbenzene	9.915	119	418321	39.635	ug/L	95
97) 1,2,4-Trimethylbenzene	9.957	105	497538	40.342	ug/L	97
98) sec-Butylbenzene	10.020	105	638879	41.487	ug/L	99
99) p-Isopropyltoluene	10.104	119	551203	40.352	ug/L	98
100) 1,3-Dichlorobenzene	10.145	146	274359	37.840	ug/L	99
101) 1,4-Dichlorobenzene	10.193	146	276415	37.350	ug/L	98
103) n-Butylbenzene	10.345	91	514090	43.028	ug/L	99
104) 1,2-Dichlorobenzene	10.434	146	260209	37.496	ug/L	99
106) 1,2-Dibromo-3-chloropr...	10.885	155	23943	34.007	ug/L	94
109) 1,2,4-Trichlorobenzene	11.262	180	211320	40.200	ug/L	99
110) Naphthalene	11.441	128	423721	34.790	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N03.D
Acq On : 21 Jul 2023 07:18 pm
Operator : VOA129:LAC
Sample : WG1806697-4,31,5,5
Misc : WG1806697,ICAL19799
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 21 20:24:43 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

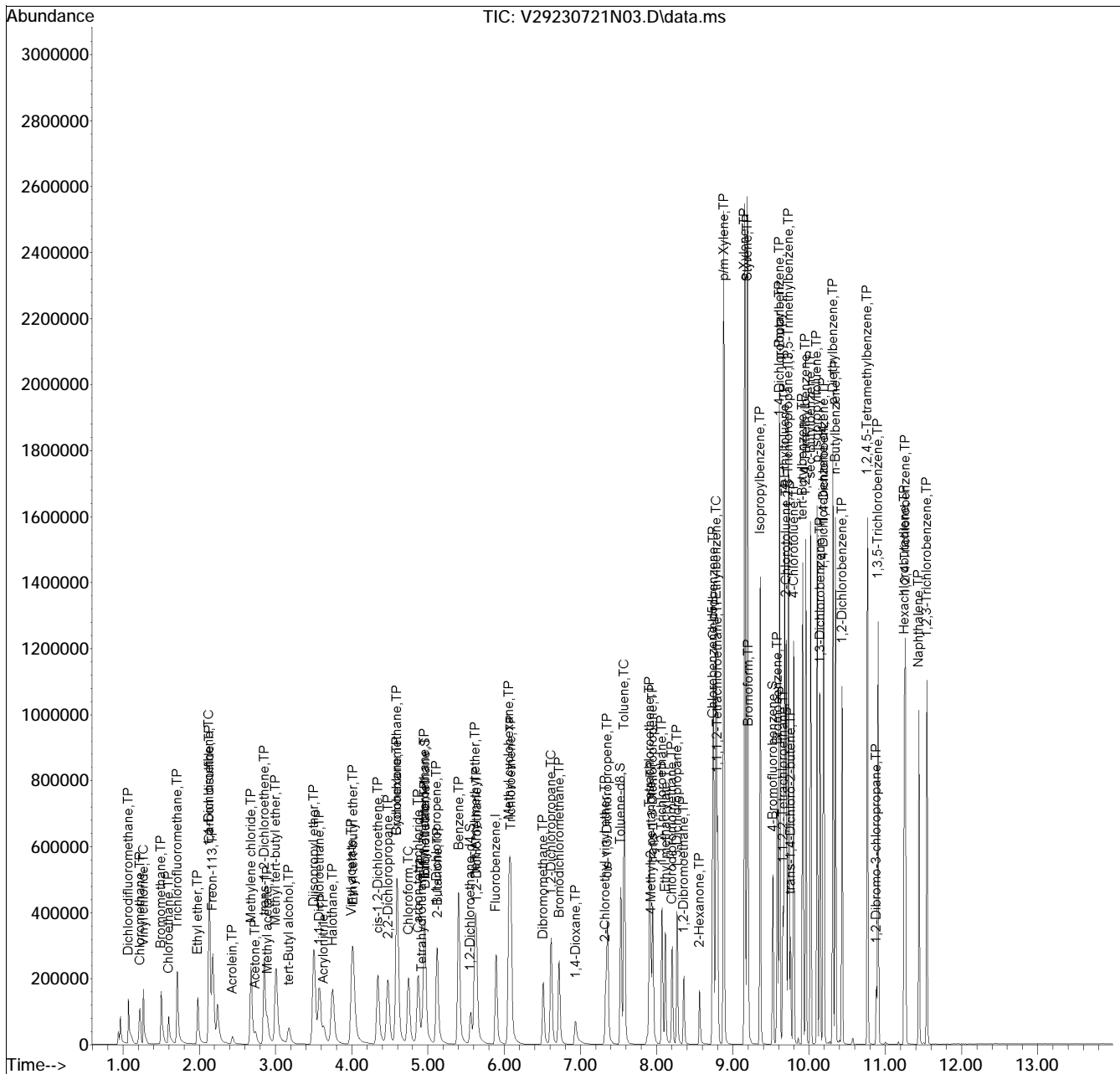
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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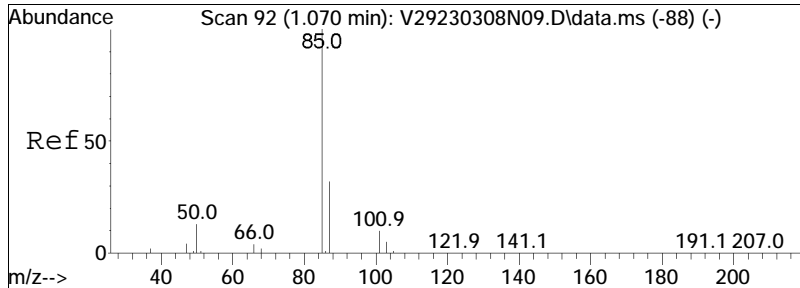
Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N03.D
 Acq On : 21 Jul 2023 07:18 pm
 Operator : VOA129:LAC
 Sample : WG1806697-4,31,5,5
 Misc : WG1806697,ICAL19799
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 21 20:24:43 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

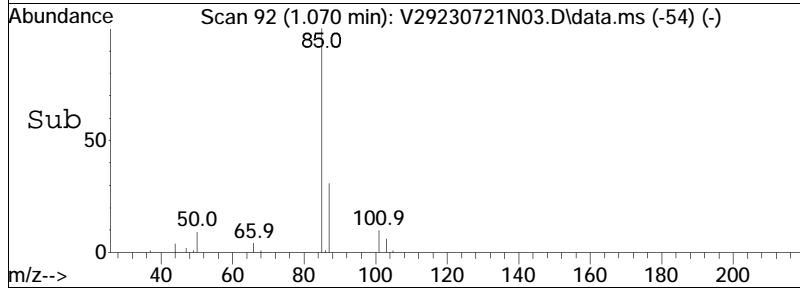
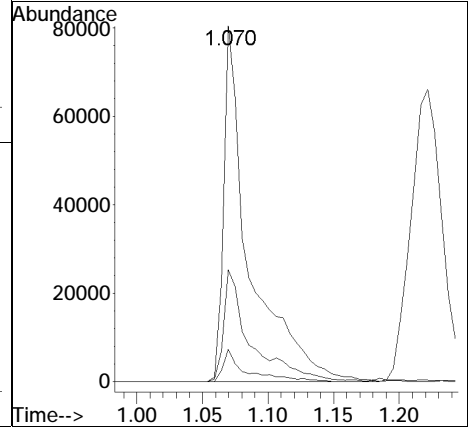
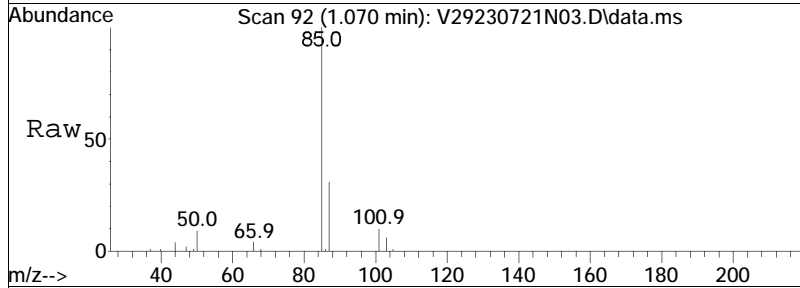
Sub List : 8260-CurveSoil - Megamix plus Diox21N01.D•

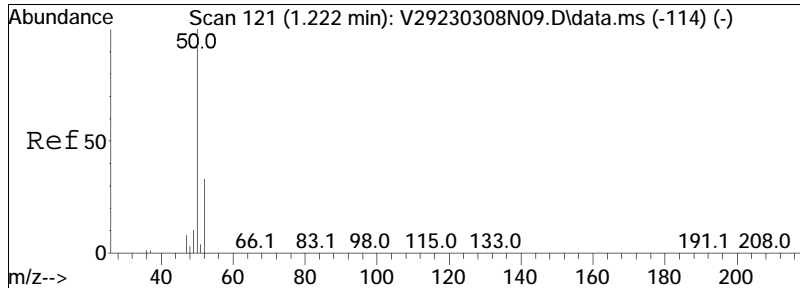




#2
 Dichlorodifluoromethane
 Concen: 38.56 ug/L
 RT: 1.070 min Scan# 92
 Delta R.T. -0.000 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

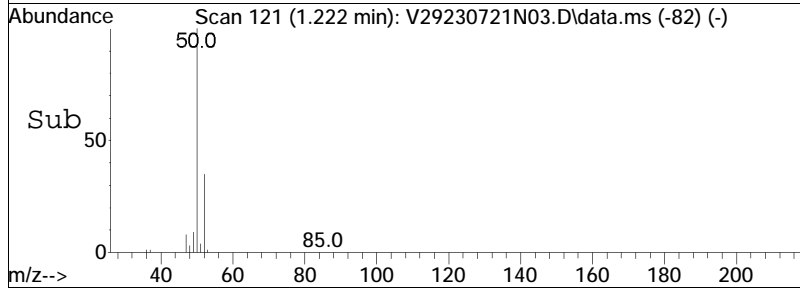
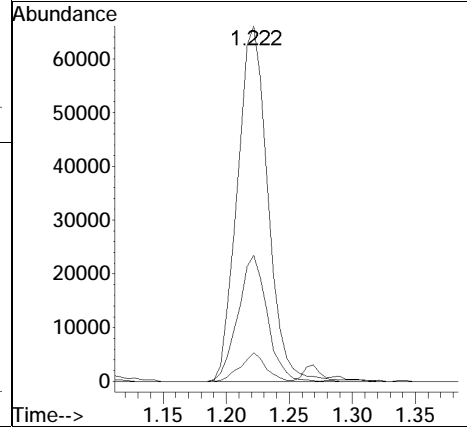
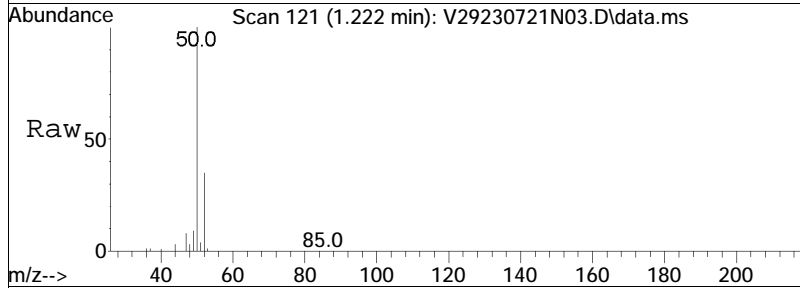
Tgt Ion	Resp	Lower	Upper
85	110177		
87	32.6	21.0	43.6
50	7.8	8.9	18.5#

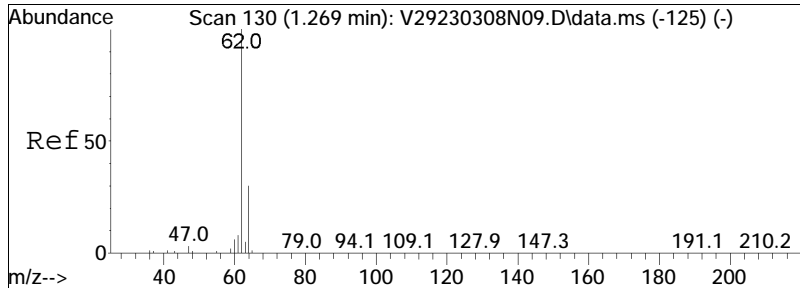




#3
 Chloromethane
 Concen: 27.40 ug/L
 RT: 1.222 min Scan# 121
 Delta R.T. 0.006 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

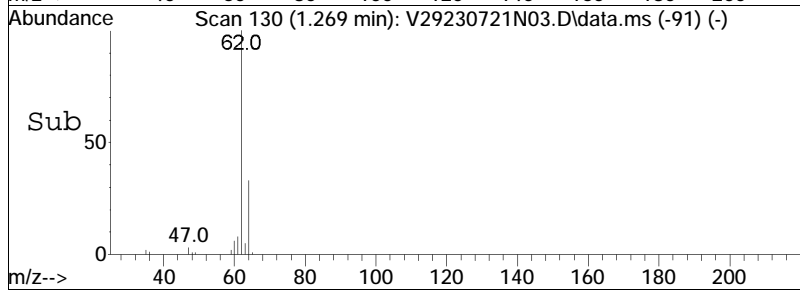
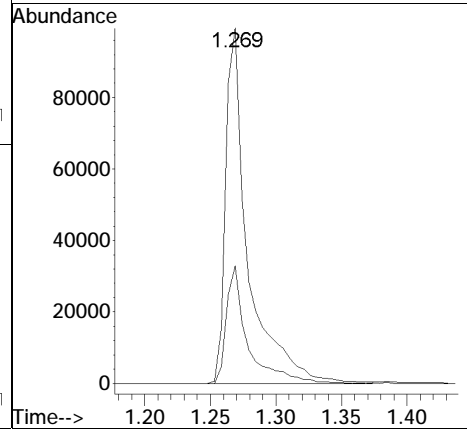
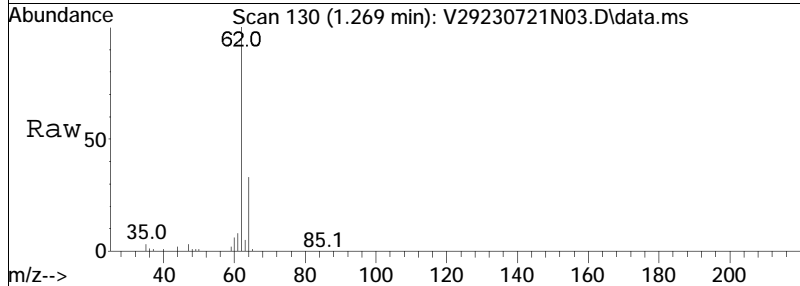
Tgt Ion	Resp	Lower	Upper
50	111235		
50	100		
52	33.8	12.9	52.9
47	6.7	0.0	28.3

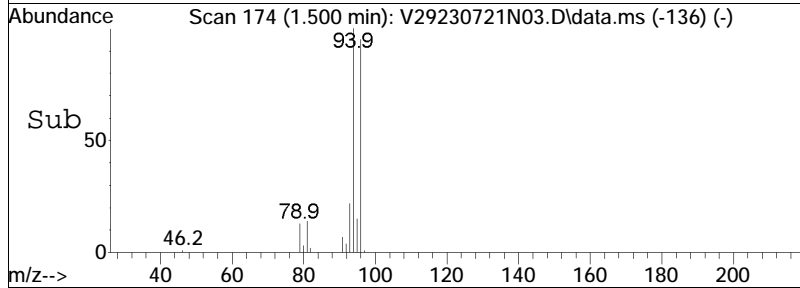
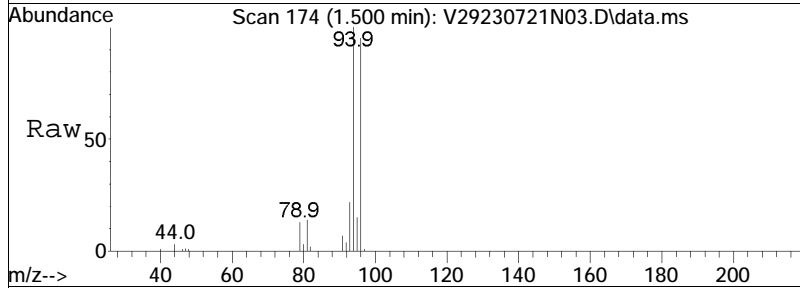
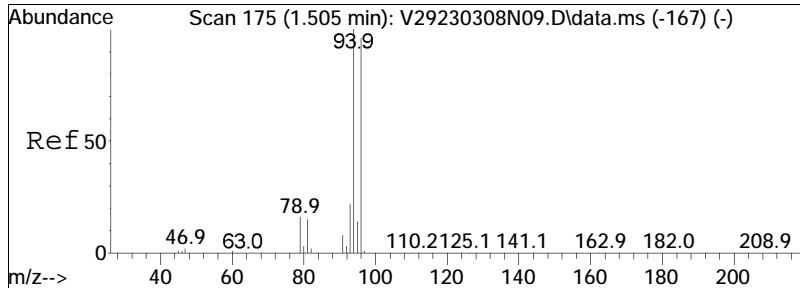




#4
 Vinyl chloride
 Concen: 35.26 ug/L
 RT: 1.269 min Scan# 130
 Delta R.T. 0.005 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

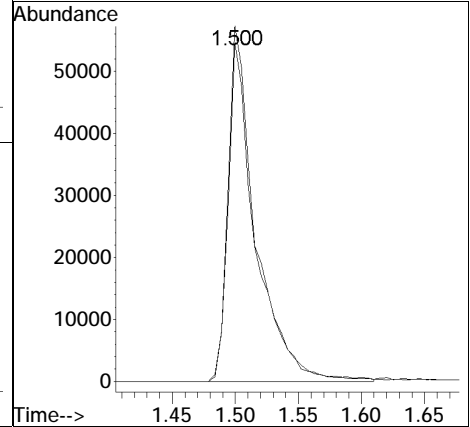
Tgt Ion	Resp	Lower	Upper
62	118143		
64	31.5	9.1	49.1

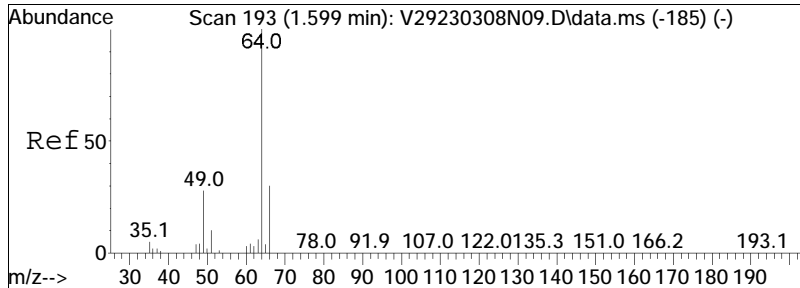




#5
 Bromomethane
 Concen: 50.13 ug/L
 RT: 1.500 min Scan# 174
 Delta R.T. -0.000 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

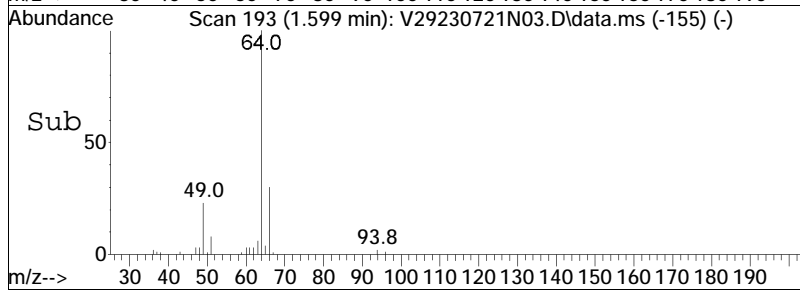
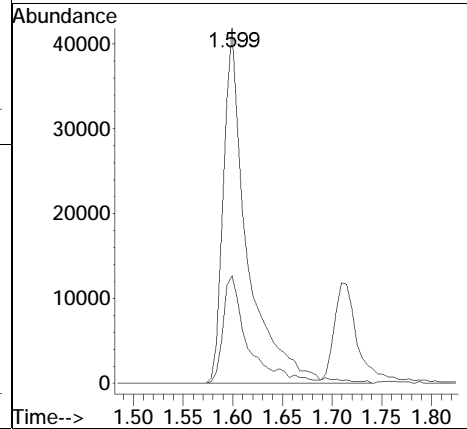
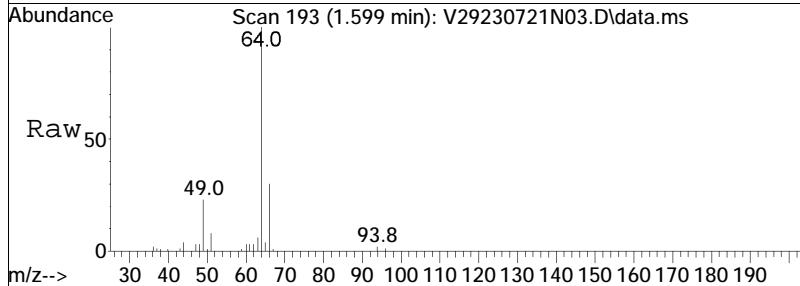
Tgt Ion	Resp	Lower	Upper
94	87325		
94	100		
96	94.9	75.6	115.6

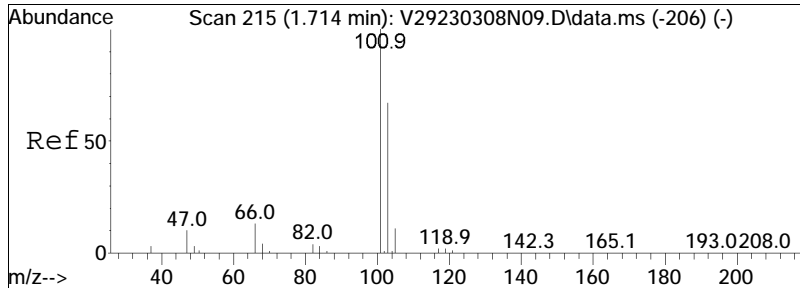




#6
 Chloroethane
 Concen: 37.20 ug/L
 RT: 1.599 min Scan# 193
 Delta R.T. 0.000 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

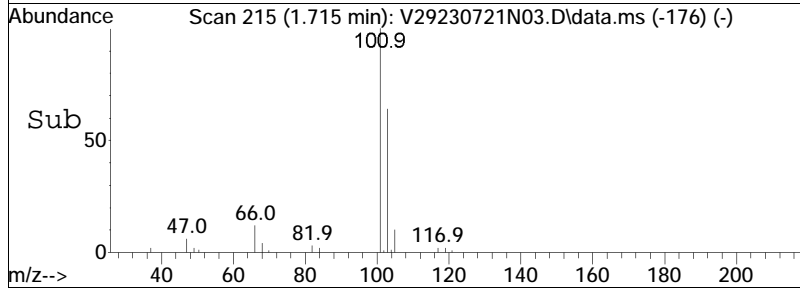
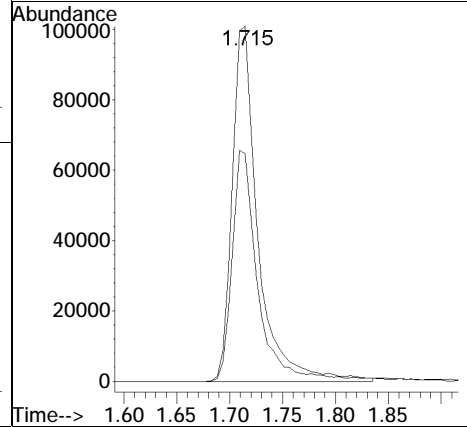
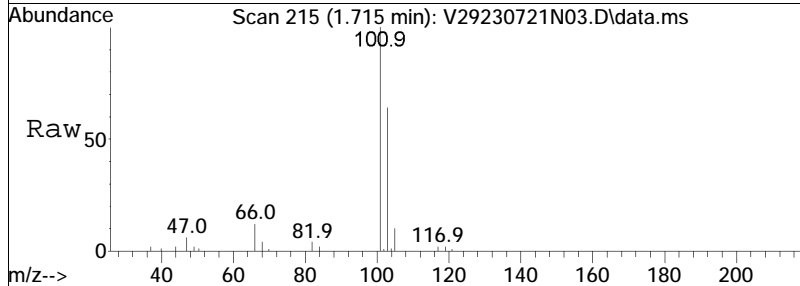
Tgt Ion	Resp	Lower	Upper
64	100		
66	31.4	9.8	49.8

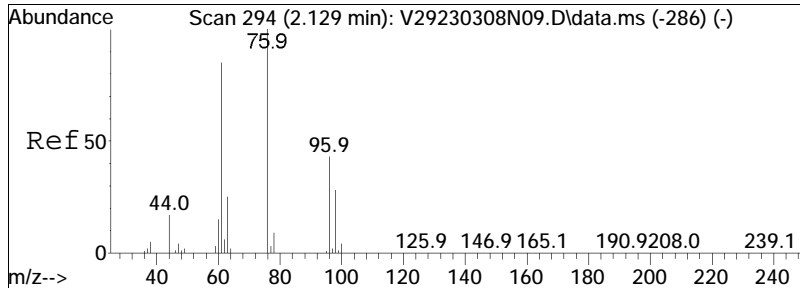




#7
 Trichlorofluoromethane
 Concen: 43.73 ug/L
 RT: 1.715 min Scan# 215
 Delta R.T. 0.006 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

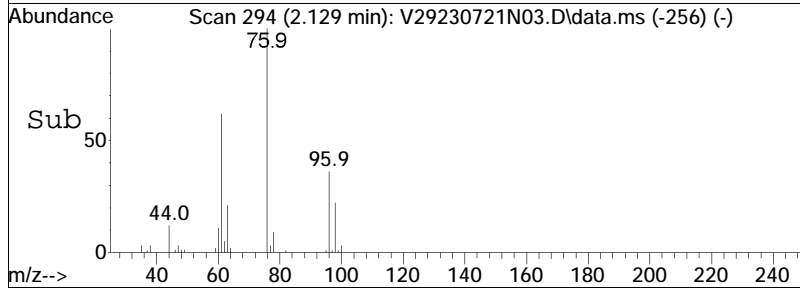
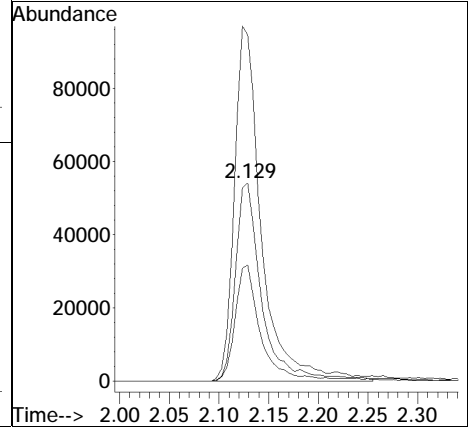
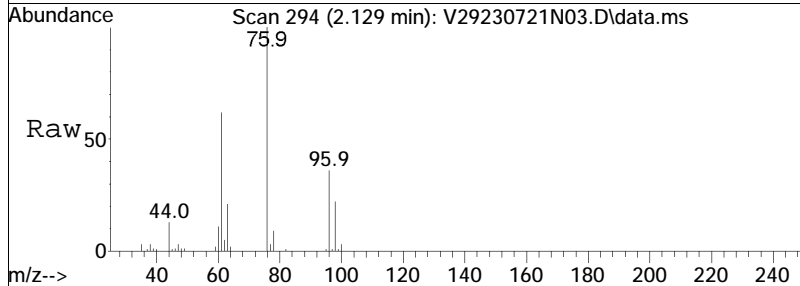
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.4	53.8	80.6

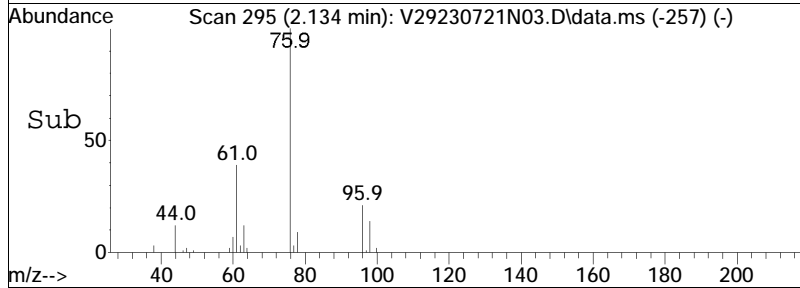
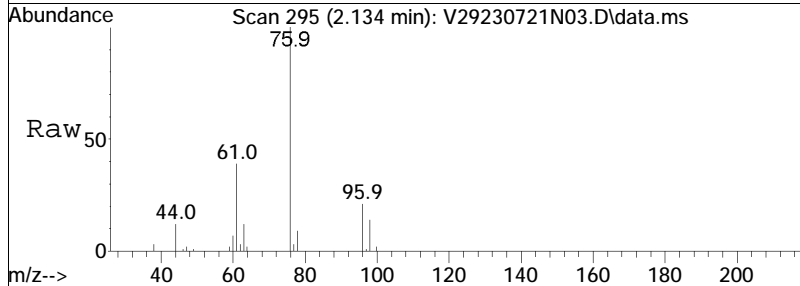
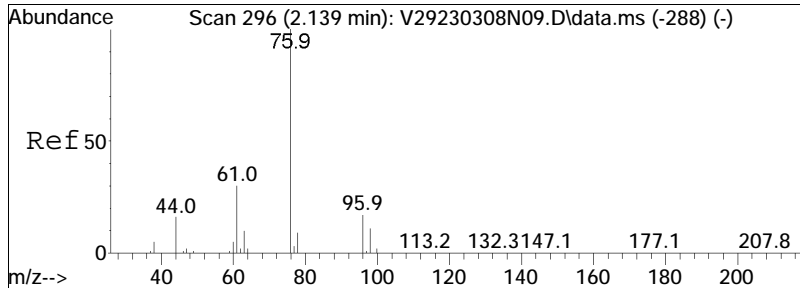




#10
 1,1-Dichloroethene
 Concen: 42.92 ug/L
 RT: 2.129 min Scan# 294
 Delta R.T. -0.000 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

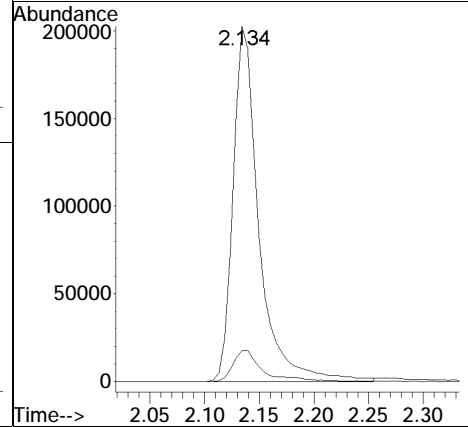
Tgt Ion	Resp	Lower	Upper
96	101012		
61	178.2	186.1	279.1#
63	56.5	57.6	86.4#

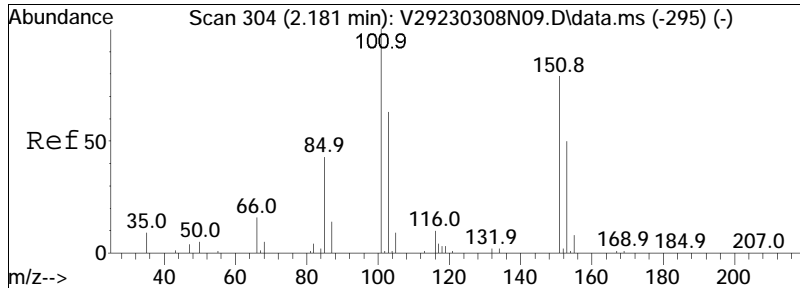




#11
 Carbon disulfide
 Concen: 39.89 ug/L
 RT: 2.134 min Scan# 295
 Delta R.T. -0.000 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

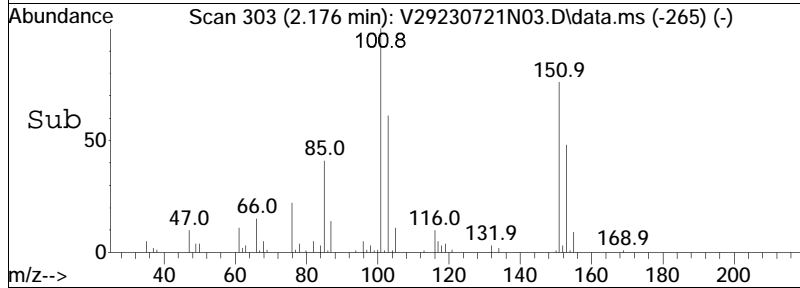
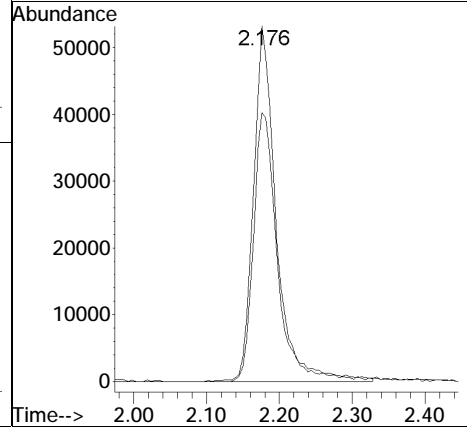
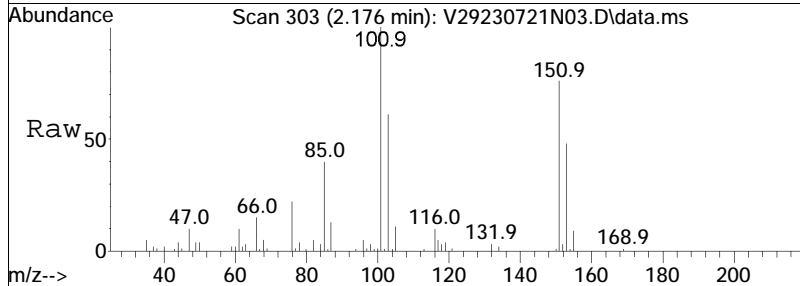
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
76	100		
78	9.9	5.7	11.7

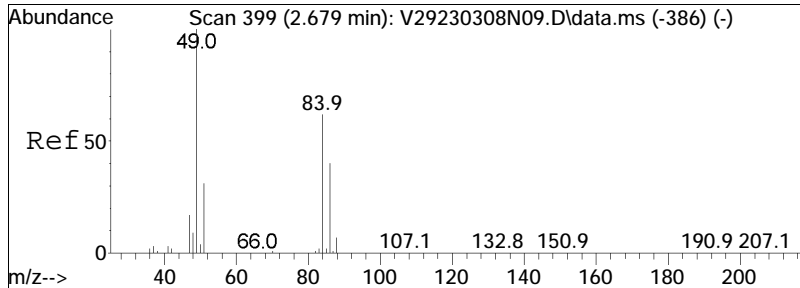




#12
 Freon-113
 Concen: 44.58 ug/L
 RT: 2.176 min Scan# 303
 Delta R.T. -0.000 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

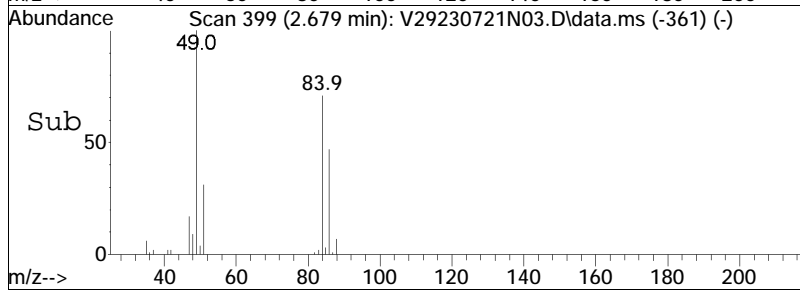
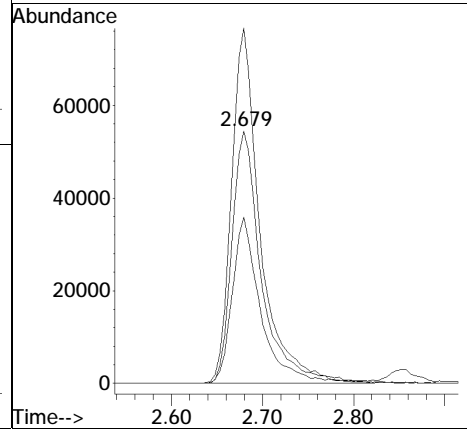
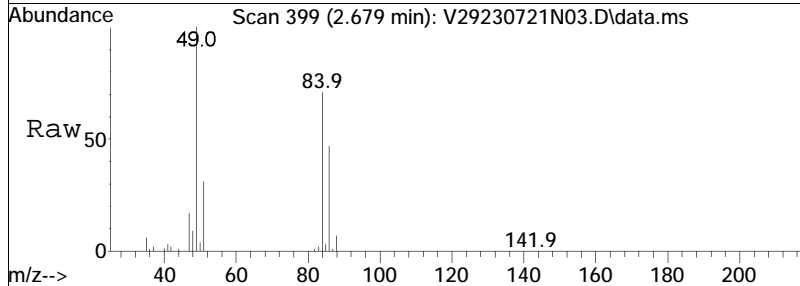
Tgt Ion	101	Resp:	115474
Ion Ratio	Lower	Upper	
101	100		
151	79.1	59.8	89.8

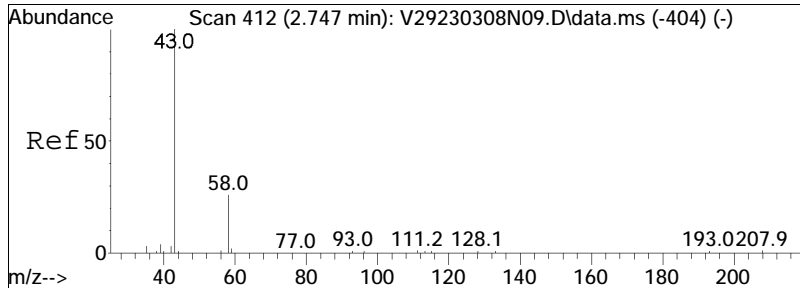




#15
 Methylene chloride
 Concen: 40.11 ug/L
 RT: 2.679 min Scan# 399
 Delta R.T. 0.000 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

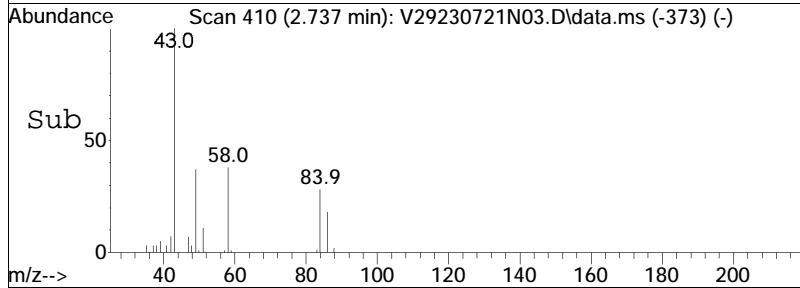
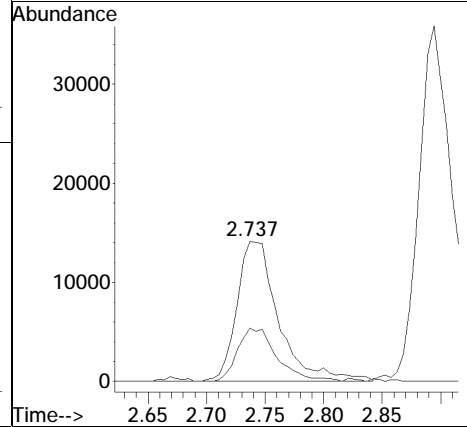
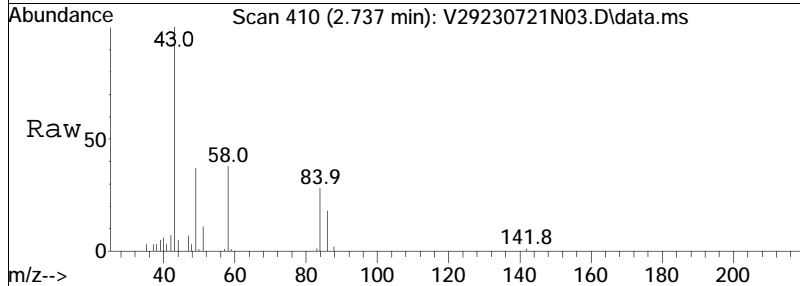
Tgt Ion	Resp	Lower	Upper
84	122812		
84	100		
86	63.8	40.4	83.8
49	136.4	120.0	249.2

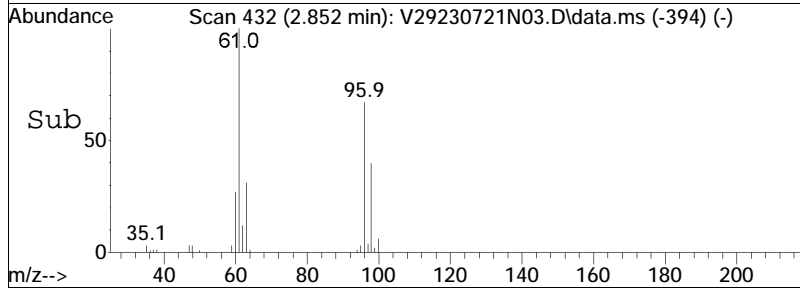
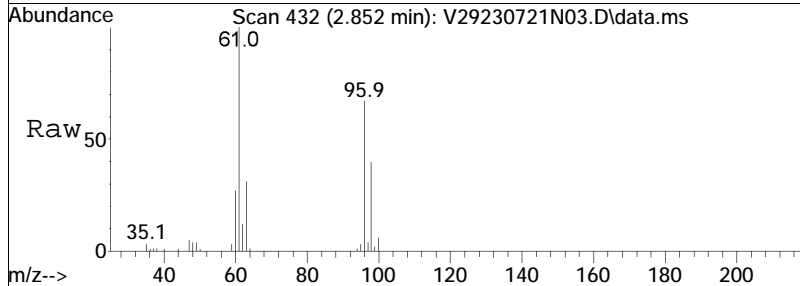
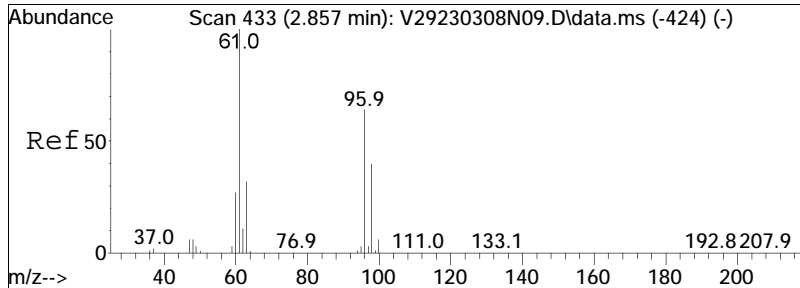




#17
 Acetone
 Concen: 41.30 ug/L
 RT: 2.737 min Scan# 410
 Delta R.T. -0.005 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

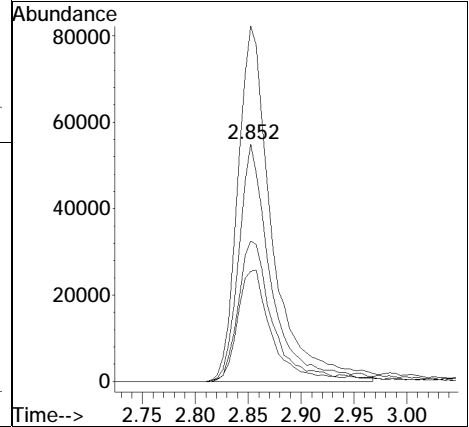
Tgt Ion:	43	58	Resp:	35128
Ion Ratio	100	35.8	Lower	Upper
			24.2	36.4

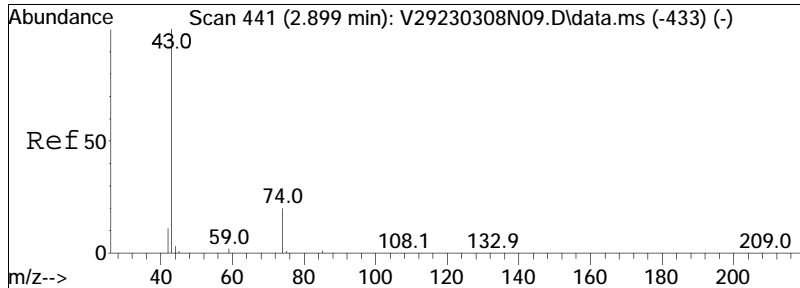




#18
 trans-1,2-Dichloroethene
 Concen: 40.86 ug/L
 RT: 2.852 min Scan# 432
 Delta R.T. 0.000 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

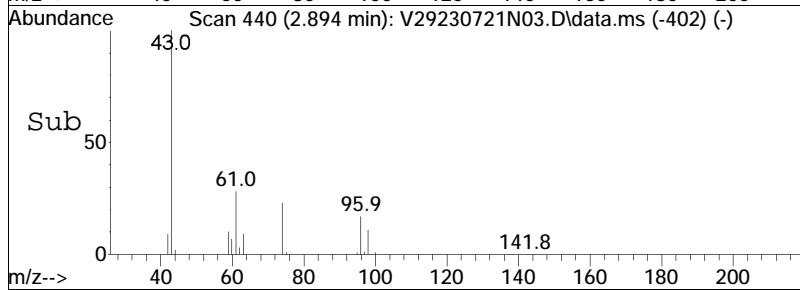
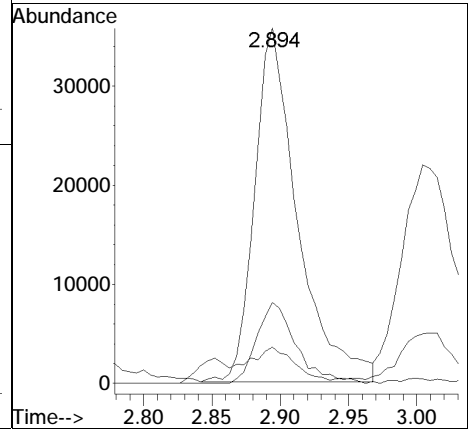
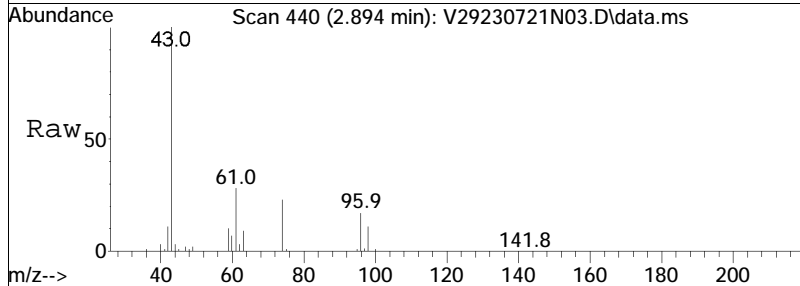
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
96	100		
61	158.9	124.0	257.6
98	61.7	41.2	85.6
63	48.8	38.4	79.7

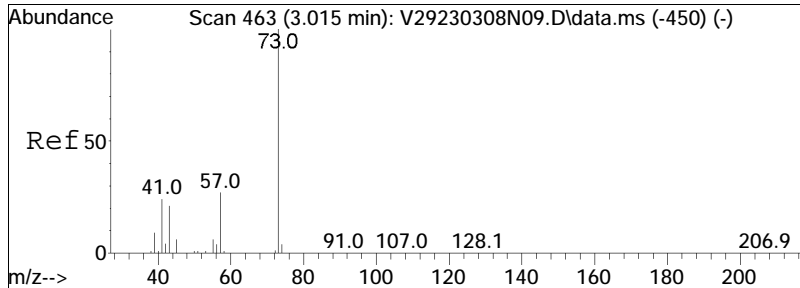




#19
 Methyl acetate
 Concen: 35.96 ug/L
 RT: 2.894 min Scan# 440
 Delta R.T. 0.000 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

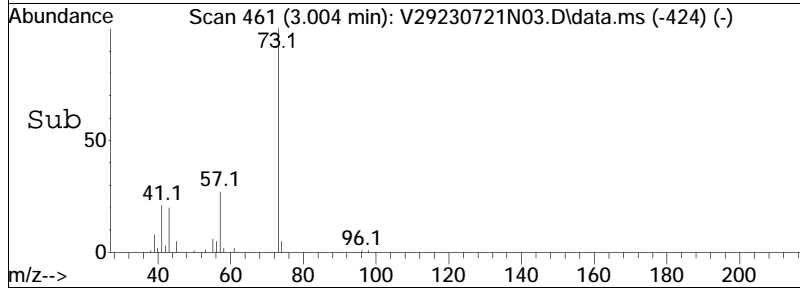
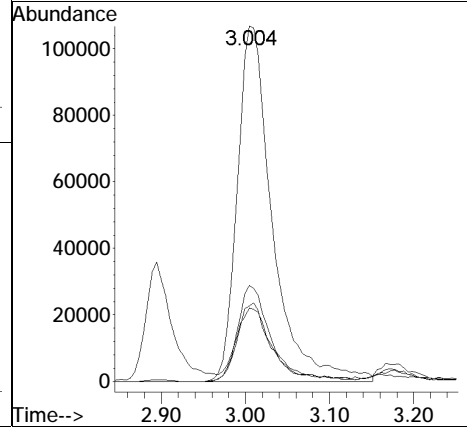
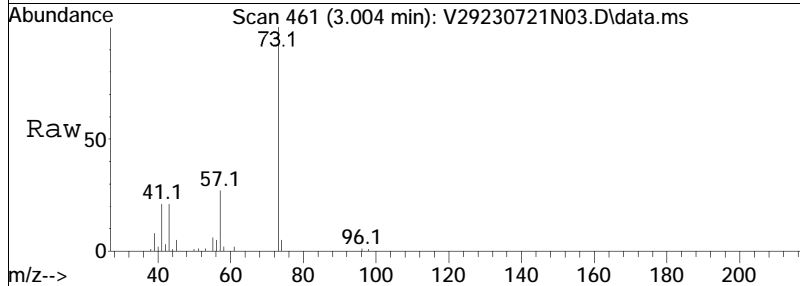
Tgt Ion	Resp	Lower	Upper
43	100		
74	20.7	14.2	21.4
59	10.0	5.0	7.6#

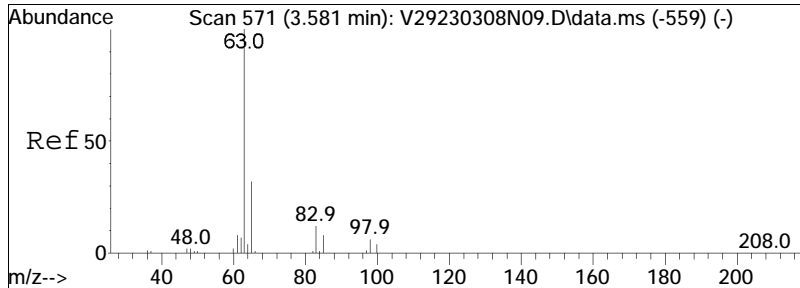




#20
 Methyl tert-butyl ether
 Concen: 43.11 ug/L
 RT: 3.004 min Scan# 461
 Delta R.T. -0.006 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

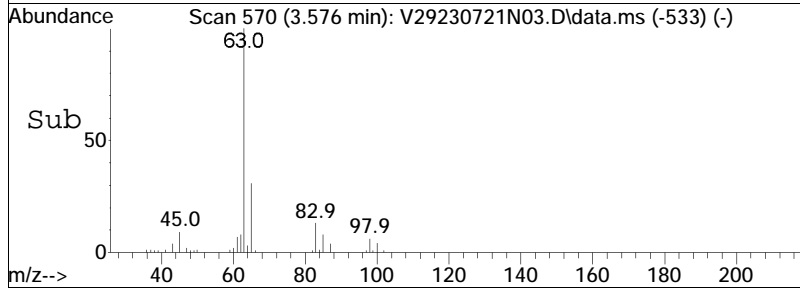
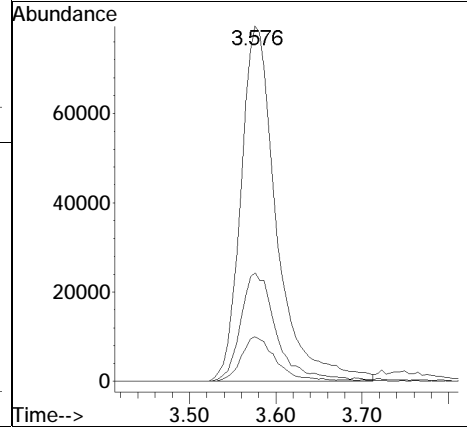
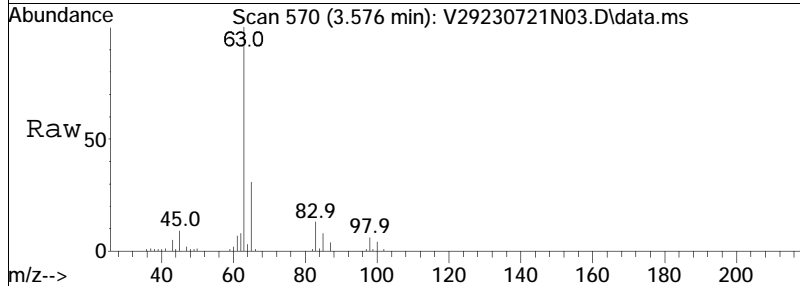
Tgt Ion	Resp	Lower	Upper
73	310758		
57	26.2	17.5	36.3
43	19.3	15.3	31.9
41	21.6	15.3	31.7

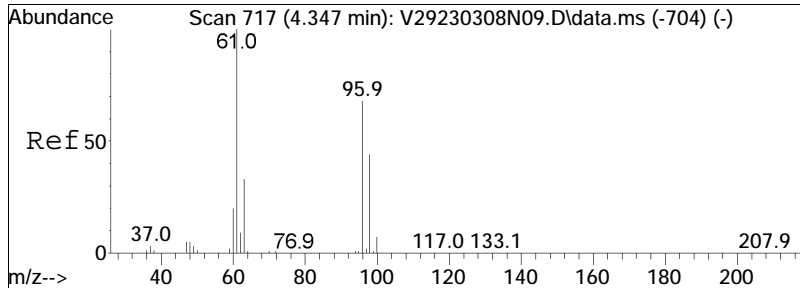




#23
 1,1-Dichloroethane
 Concen: 41.38 ug/L
 RT: 3.576 min Scan# 570
 Delta R.T. -0.005 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

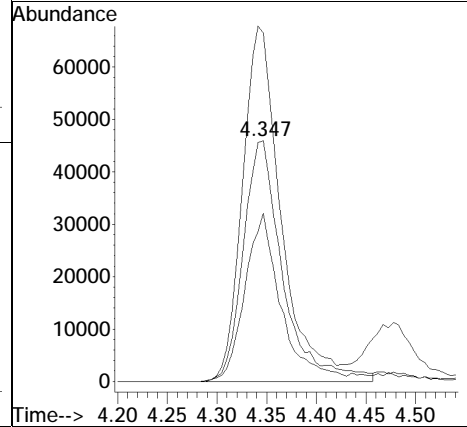
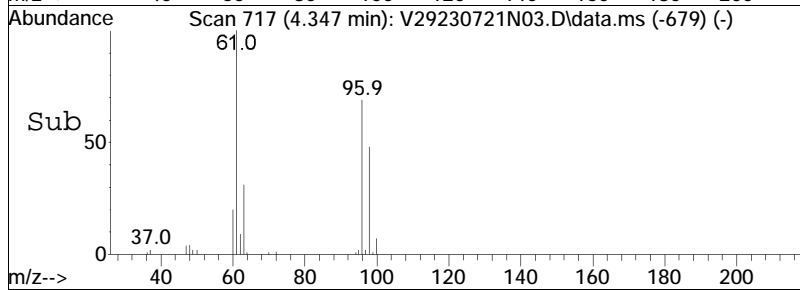
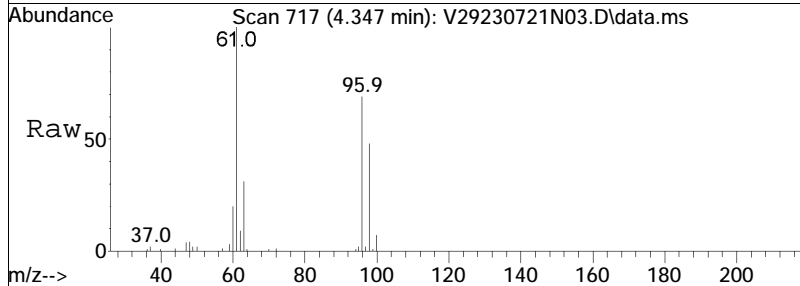
Tgt Ion	Resp	Lower	Upper
63	100		
65	30.7	11.0	51.0
83	12.3	0.0	31.8

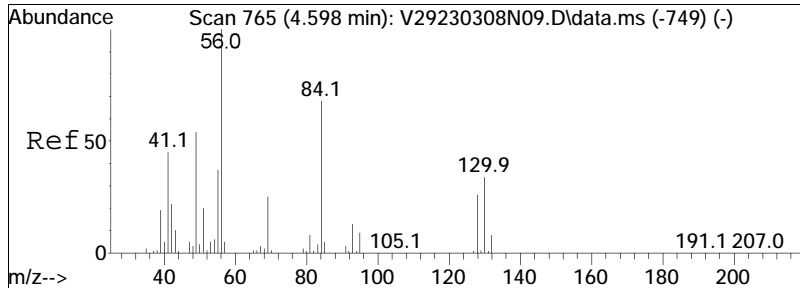




#28
 cis-1,2-Dichloroethene
 Concen: 39.58 ug/L
 RT: 4.347 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

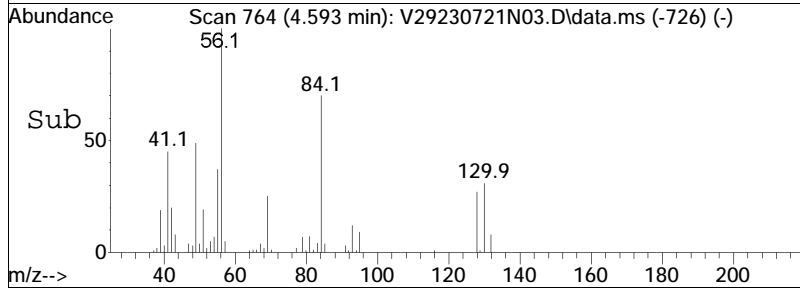
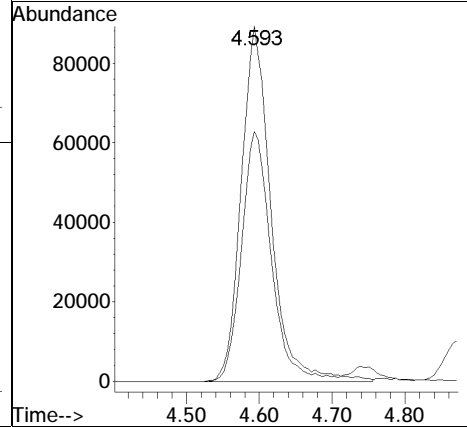
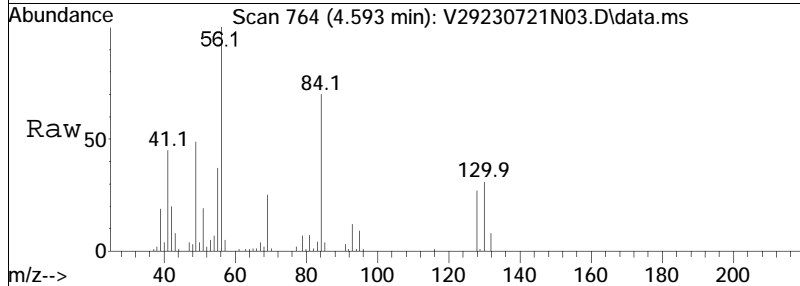
Tgt Ion	Resp	Lower	Upper
96	126999		
Ion Ratio			
96	100		
61	143.8	149.4	224.2#
98	64.0	53.4	80.2

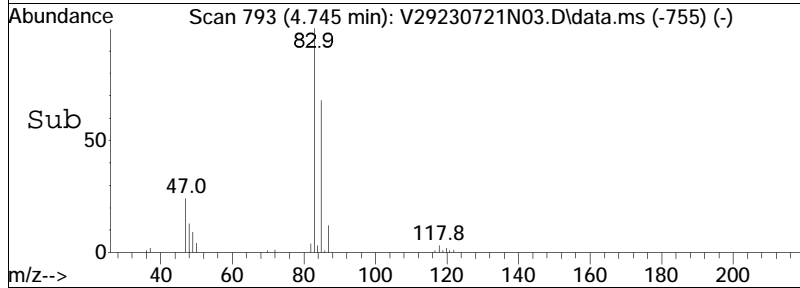
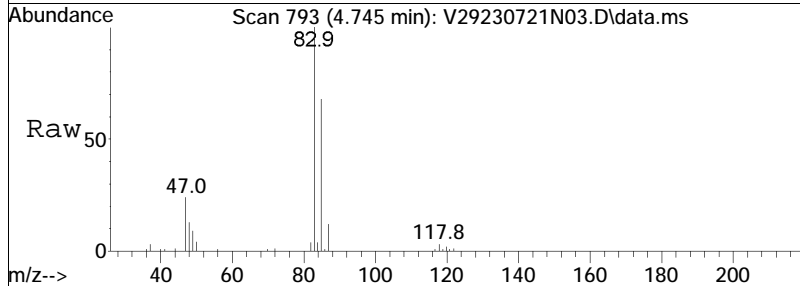
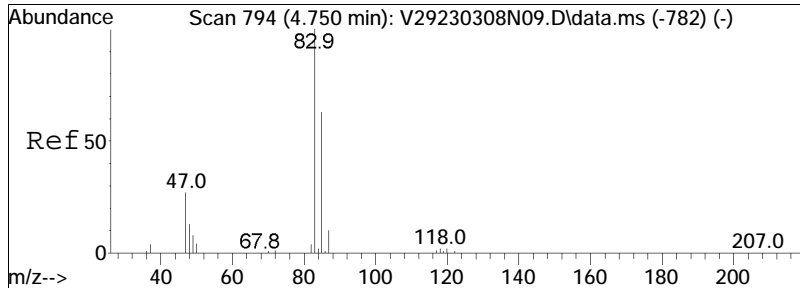




#31
 Cyclohexane
 Concen: 41.71 ug/L
 RT: 4.593 min Scan# 764
 Delta R.T. 0.000 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

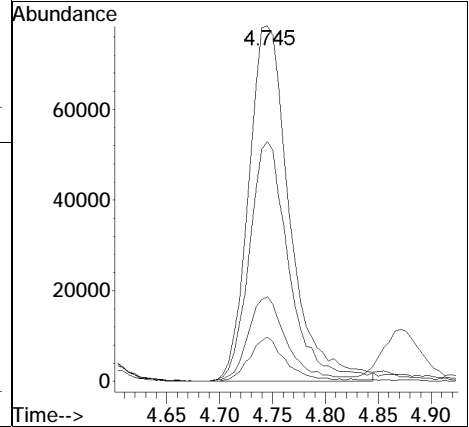
Tgt Ion:	56	Resp:	253429
Ion Ratio	Lower	Upper	
56	100		
84	69.8	38.4	79.8

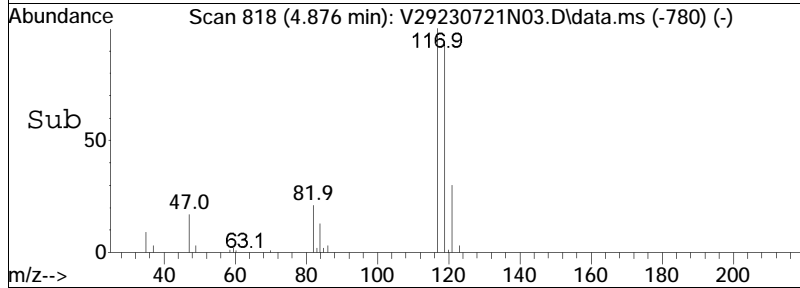
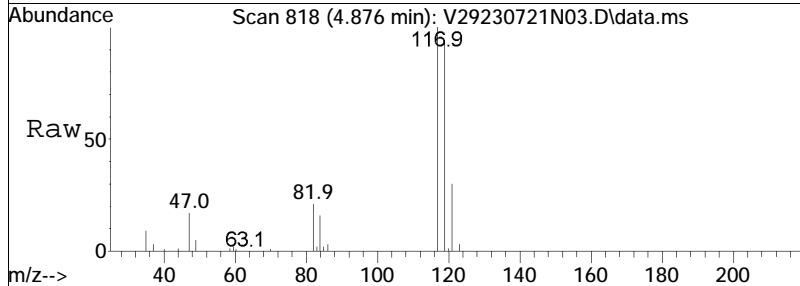
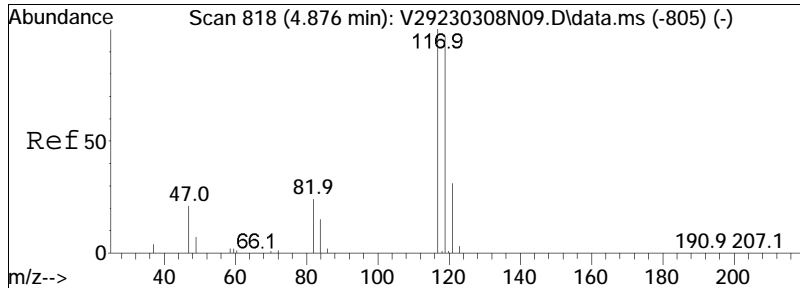




#32
 Chloroform
 Concen: 41.49 ug/L
 RT: 4.745 min Scan# 793
 Delta R.T. 0.000 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

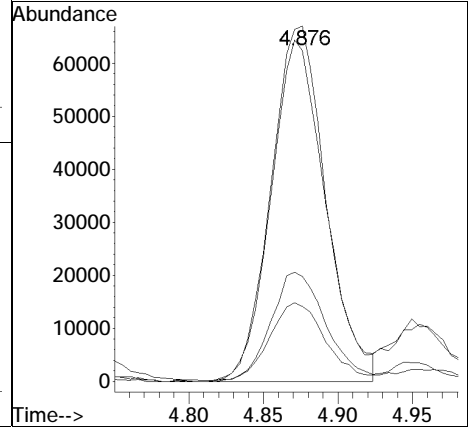
Tgt Ion	Resp	Lower	Upper
83	212650		
83	100		
85	65.7	41.5	86.1
47	22.7	19.0	39.4
48	11.1	9.9	20.5

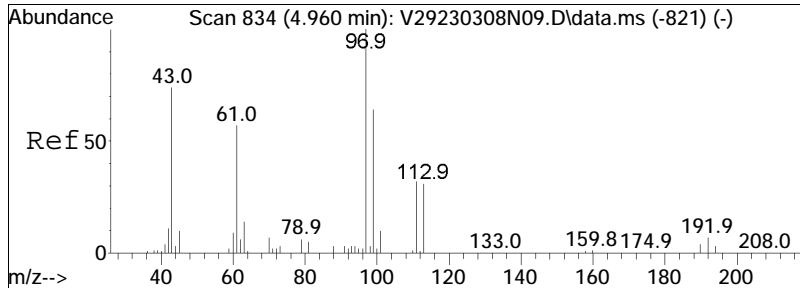




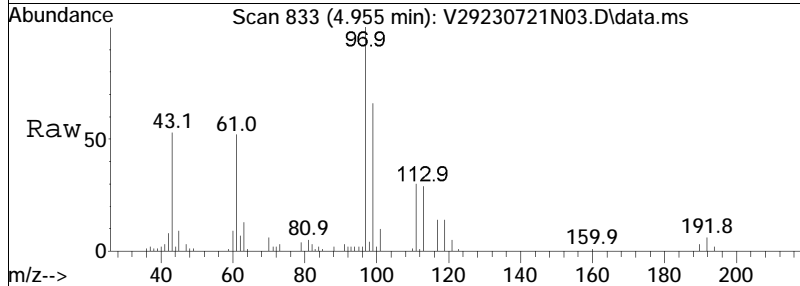
#34
 Carbon tetrachloride
 Concen: 42.24 ug/L
 RT: 4.876 min Scan# 818
 Delta R.T. 0.000 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

Tgt Ion	Resp	Lower	Upper
117	171791		
117	100		
119	95.2	62.4	129.6
121	31.0	19.5	40.5
82	22.6	17.0	35.4

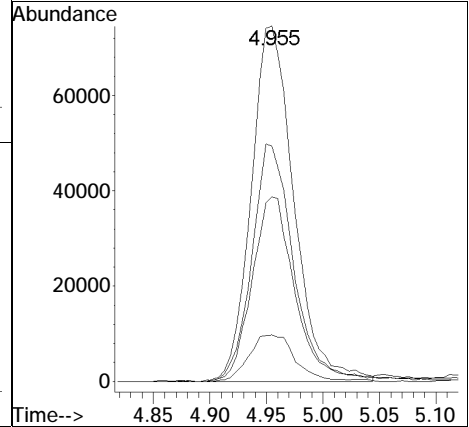
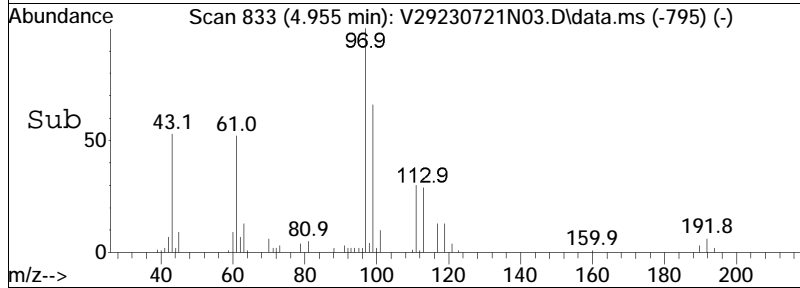


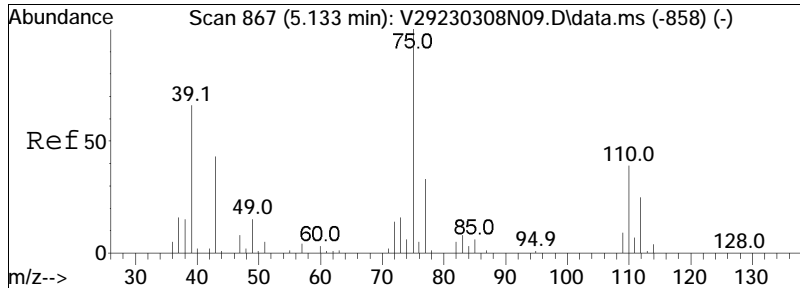


#37
 1,1,1-Trichloroethane
 Concen: 45.61 ug/L
 RT: 4.955 min Scan# 833
 Delta R.T. -0.000 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm



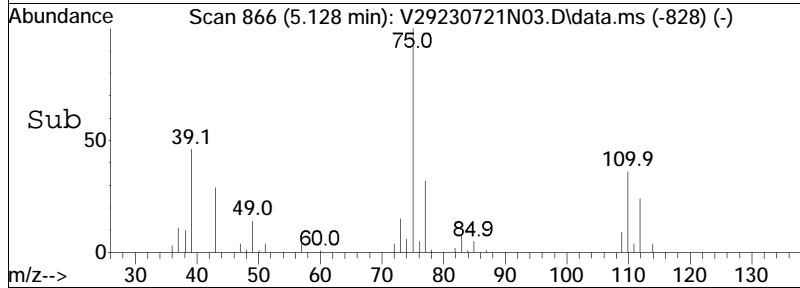
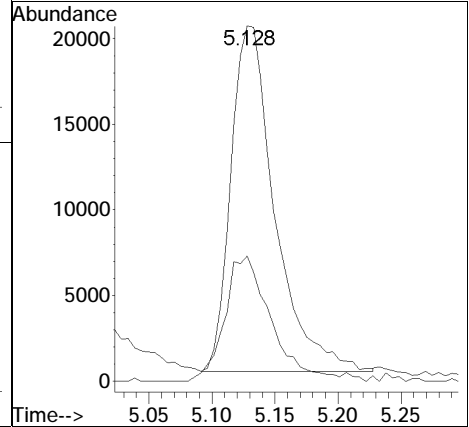
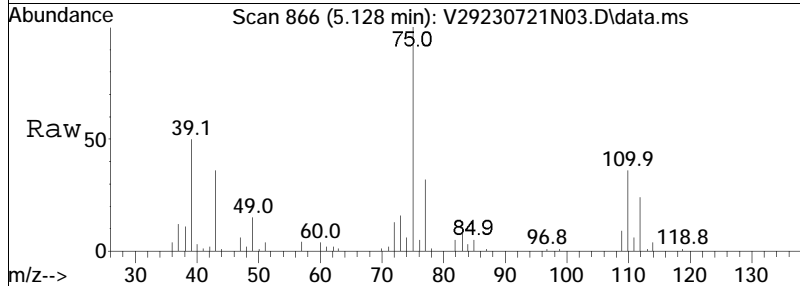
Tgt Ion:	97	Resp:	196170
Ion Ratio	Lower	Upper	
97	100		
99	65.1	40.7	84.5
61	52.2	35.4	73.4
63	14.1	5.0	10.4#

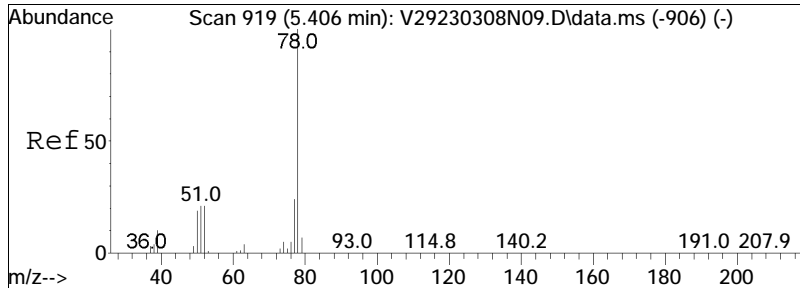




#39
 2-Butanone
 Concen: 25.16 ug/L
 RT: 5.128 min Scan# 866
 Delta R.T. -0.000 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

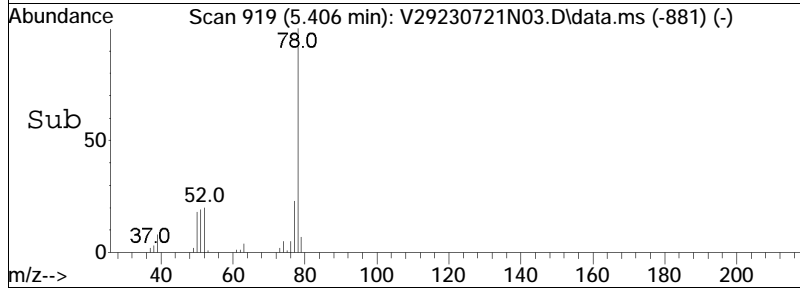
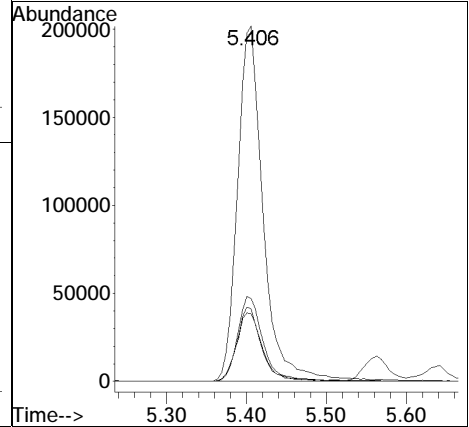
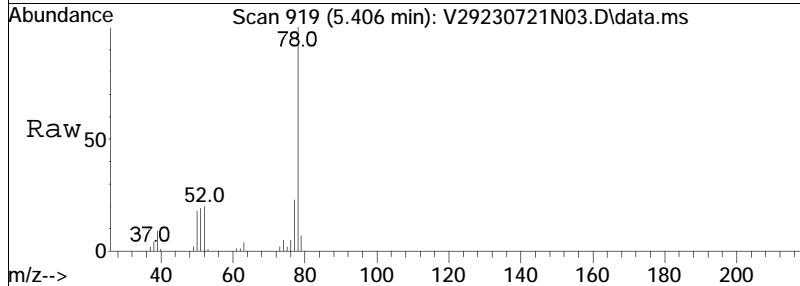
Tgt Ion: 43 Resp: 48804
 Ion Ratio Lower Upper
 43 100
 72 38.1 10.9 16.3#

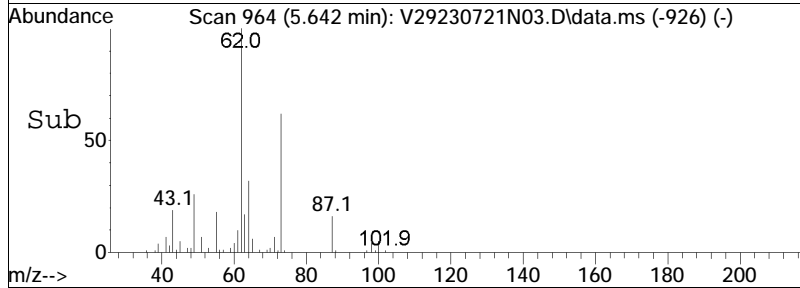
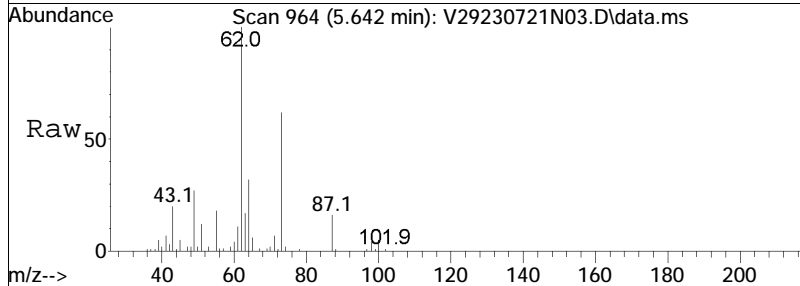
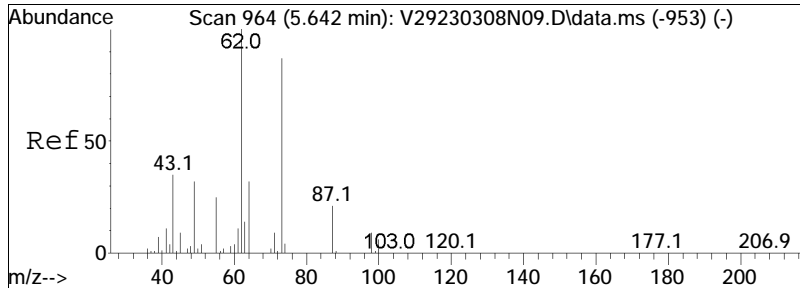




#41
 Benzene
 Concen: 41.09 ug/L
 RT: 5.406 min Scan# 919
 Delta R.T. -0.000 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

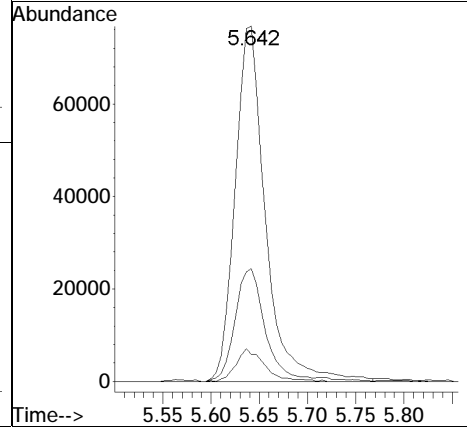
Tgt Ion	Resp	Lower	Upper
78	451277		
77	23.7	15.7	32.7
51	19.5	16.0	33.2
52	20.2	15.3	31.9

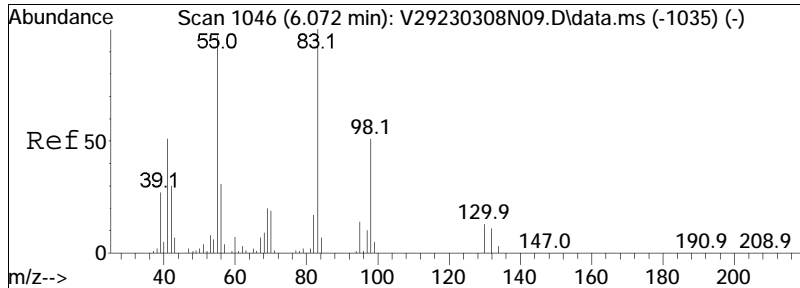




#44
 1,2-Dichloroethane
 Concen: 39.90 ug/L
 RT: 5.642 min Scan# 964
 Delta R.T. -0.000 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

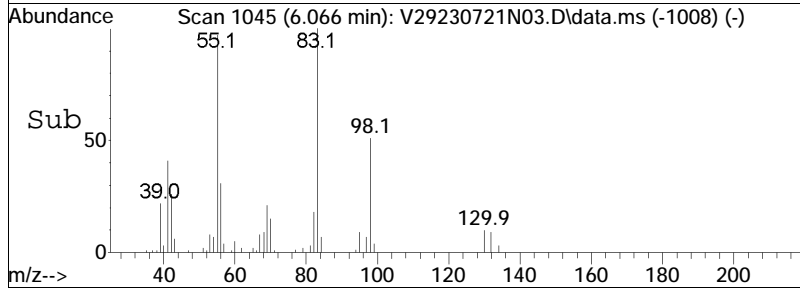
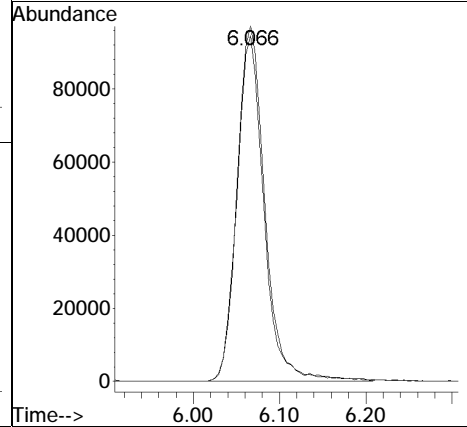
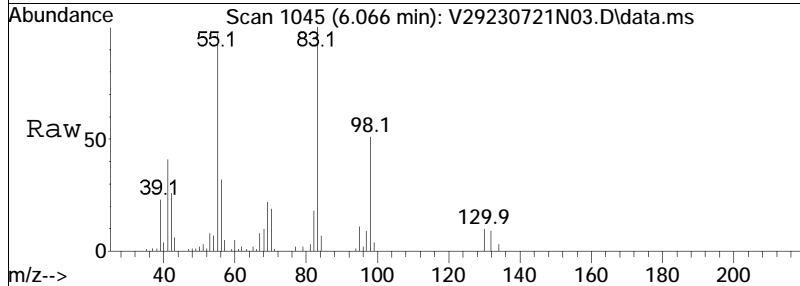
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
62	100		
64	32.2	11.2	51.2
98	8.7	0.0	26.1

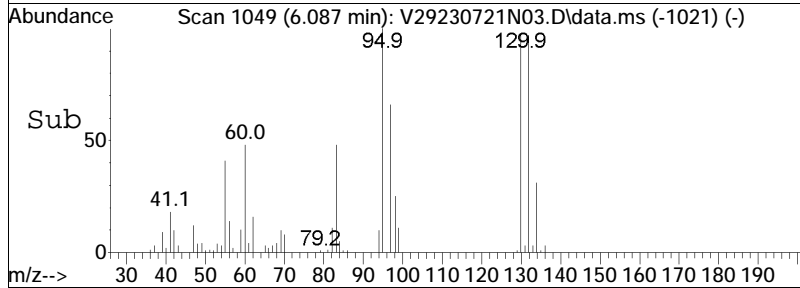
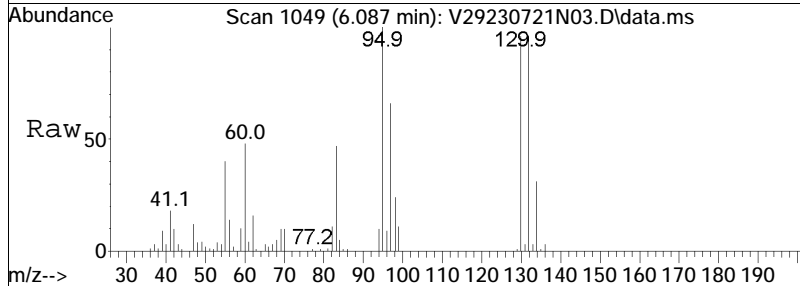
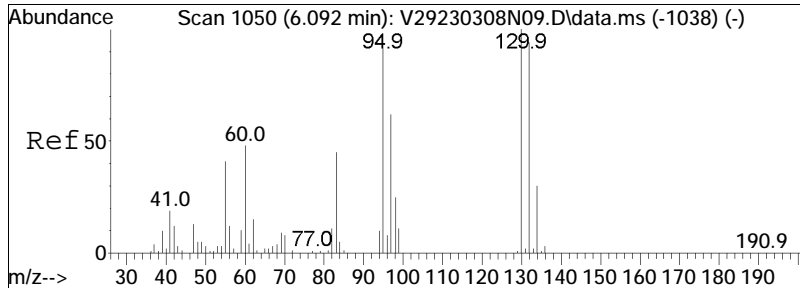




#47
 Methyl cyclohexane
 Concen: 41.96 ug/L
 RT: 6.066 min Scan# 1045
 Delta R.T. -0.006 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

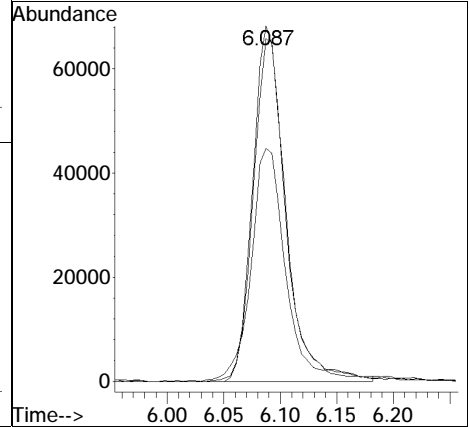
Tgt Ion:	83	Resp:	217430
Ion Ratio	Lower	Upper	
83	100		
55	94.7	88.3	132.5

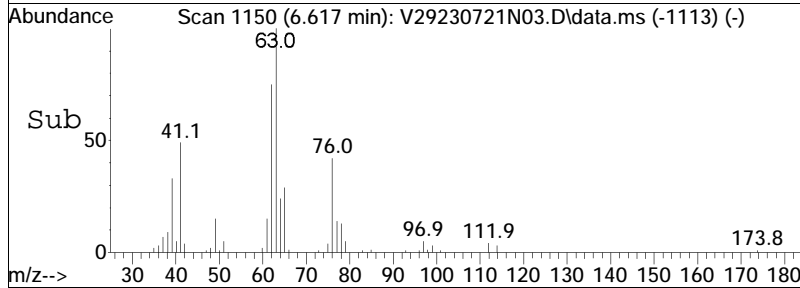
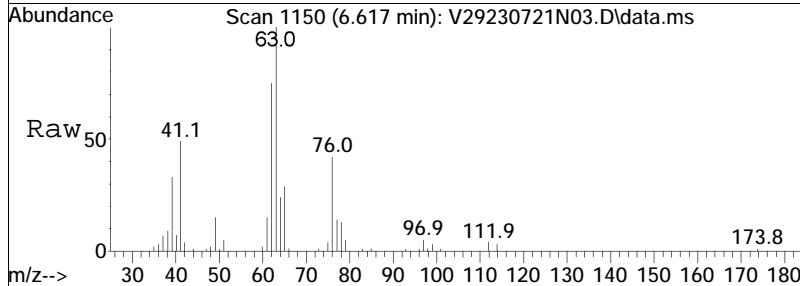
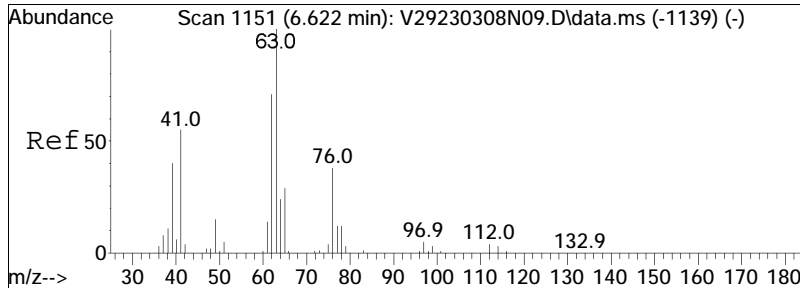




#48
 Trichloroethene
 Concen: 43.97 ug/L
 RT: 6.087 min Scan# 1049
 Delta R.T. -0.006 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

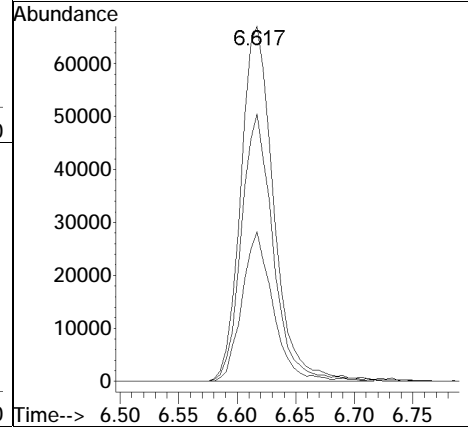
Tgt Ion:	95	Resp:	137526
Ion Ratio	Lower	Upper	
95	100		
97	69.8	55.5	83.3
130	96.7	76.6	115.0

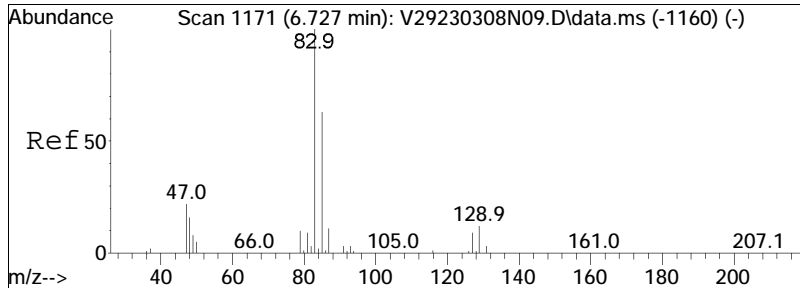




#51
 1,2-Dichloropropane
 Concen: 37.09 ug/L
 RT: 6.617 min Scan# 1150
 Delta R.T. -0.005 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

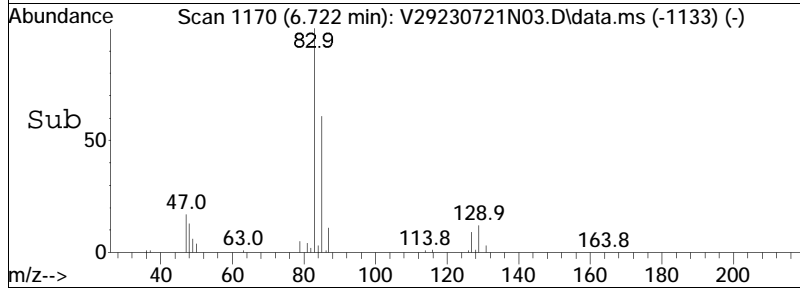
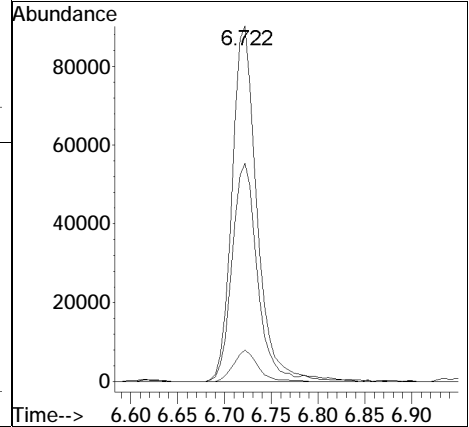
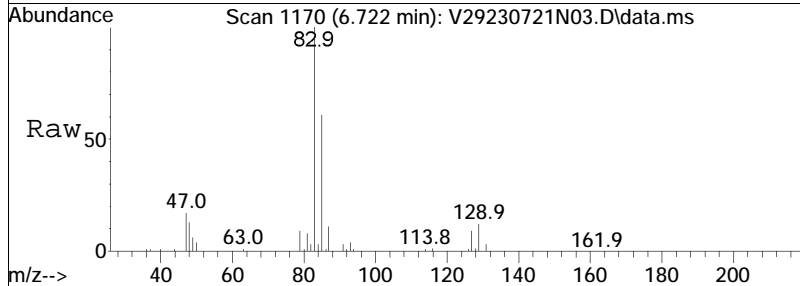
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
63	100		
62	73.1	58.6	87.8
76	39.6	38.0	57.0

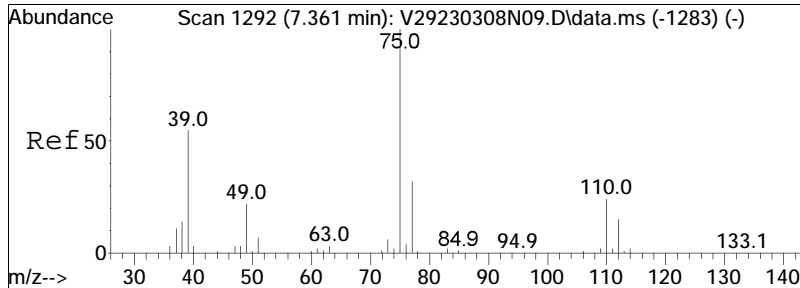




#54
 Bromodichloromethane
 Concen: 40.83 ug/L
 RT: 6.722 min Scan# 1170
 Delta R.T. -0.005 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

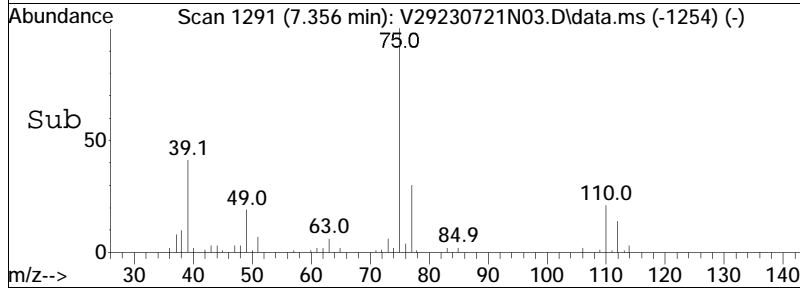
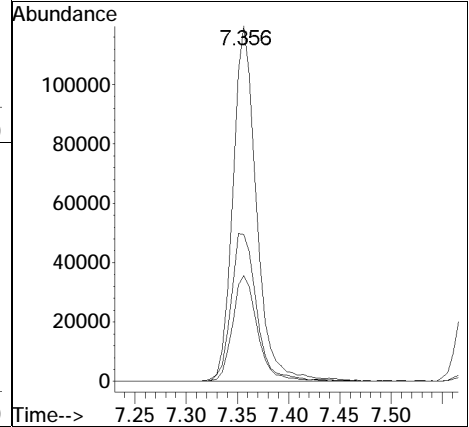
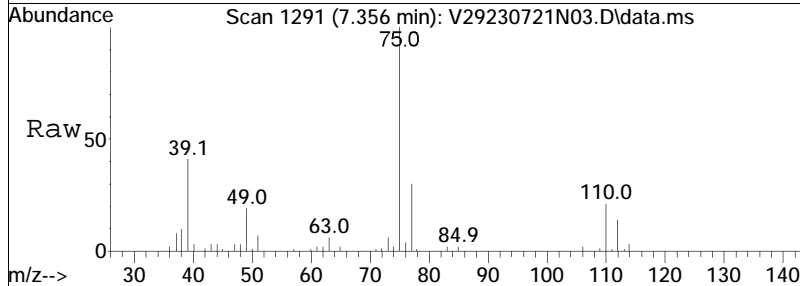
Tgt Ion	Resp	Lower	Upper
83	167259		
83	100		
85	63.0	52.3	78.5
127	8.5	6.2	9.4

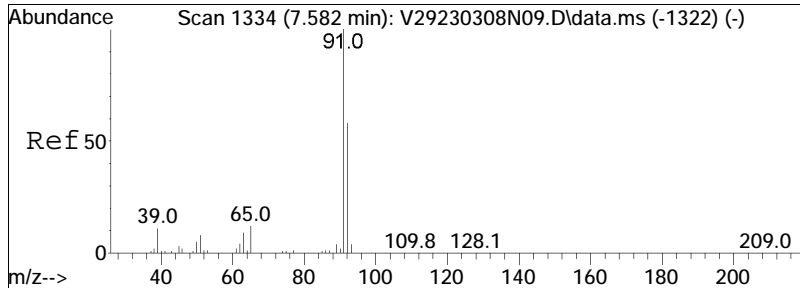




#58
 cis-1,3-Dichloropropene
 Concen: 38.33 ug/L
 RT: 7.356 min Scan# 1291
 Delta R.T. -0.005 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

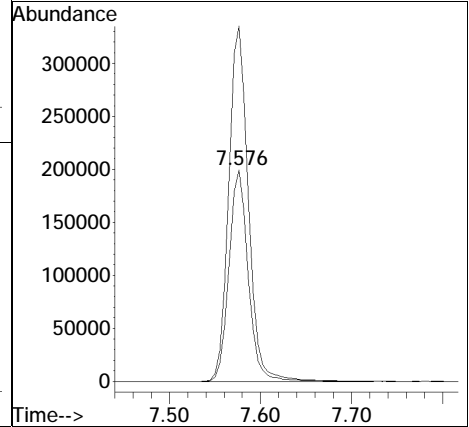
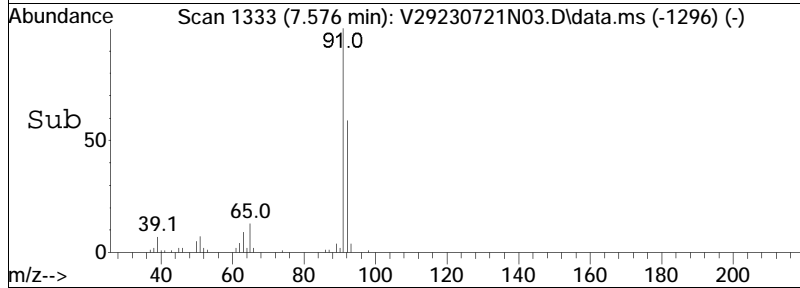
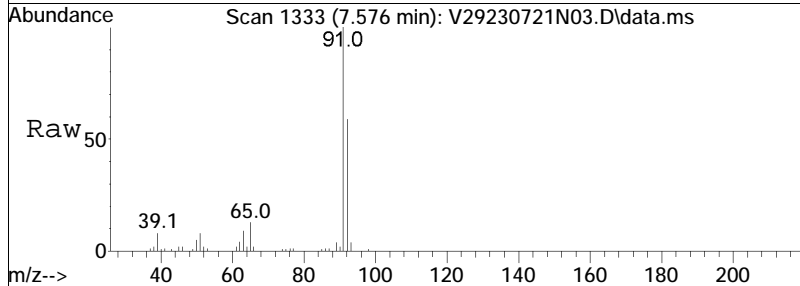
Tgt Ion:	Resp:	Lower	Upper
75	100		
77	31.5	25.0	37.4
39	45.1	50.1	75.1#

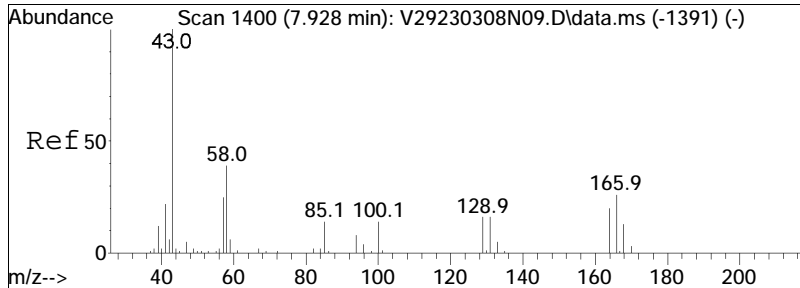




#61
 Toluene
 Concen: 38.33 ug/L
 RT: 7.576 min Scan# 1333
 Delta R.T. -0.006 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

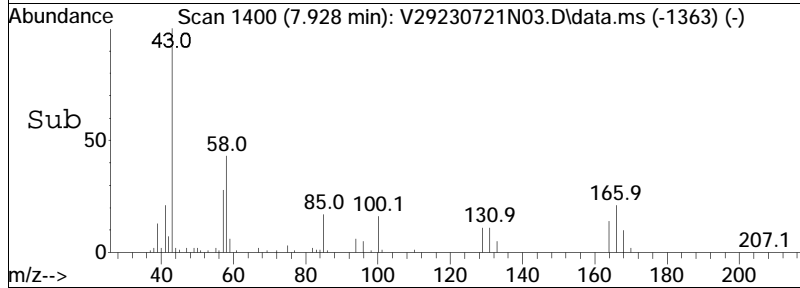
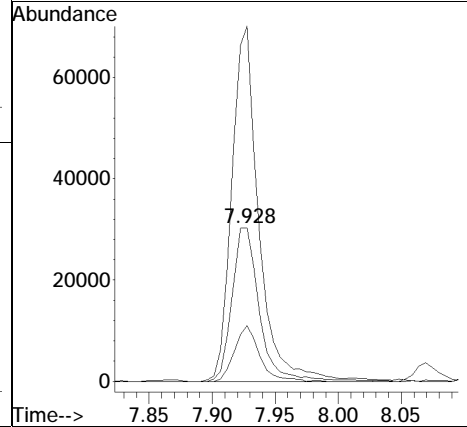
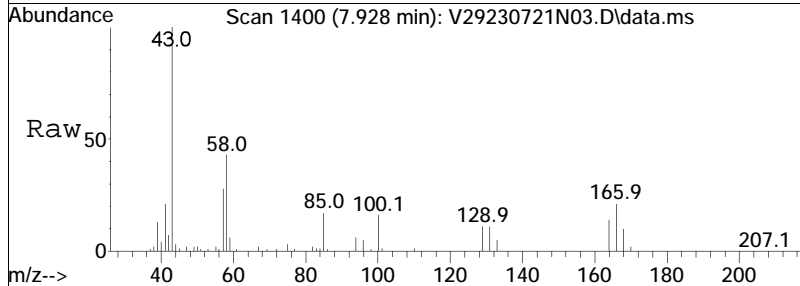
Tgt Ion:	Resp:	Lower	Upper
92	292856		
91	171.4	139.8	209.6

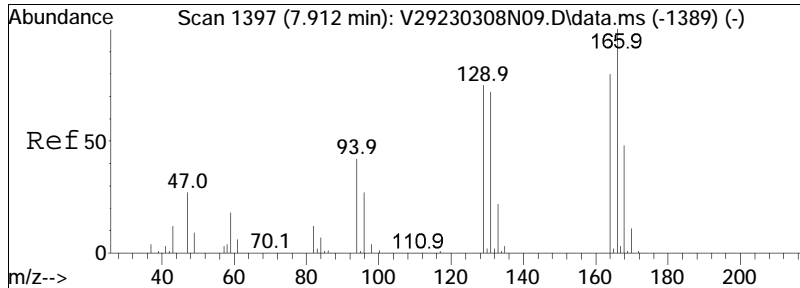




#62
 4-Methyl-2-pentanone
 Concen: 31.06 ug/L
 RT: 7.928 min Scan# 1400
 Delta R.T. -0.005 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

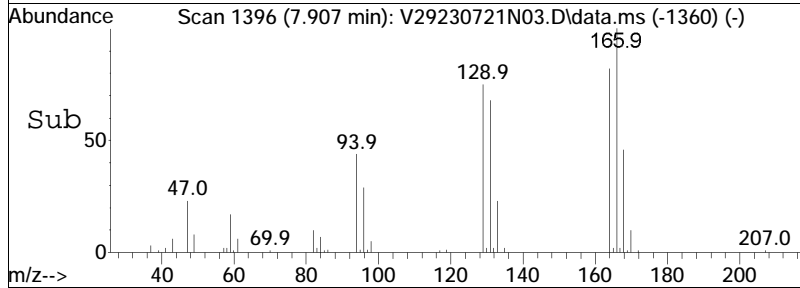
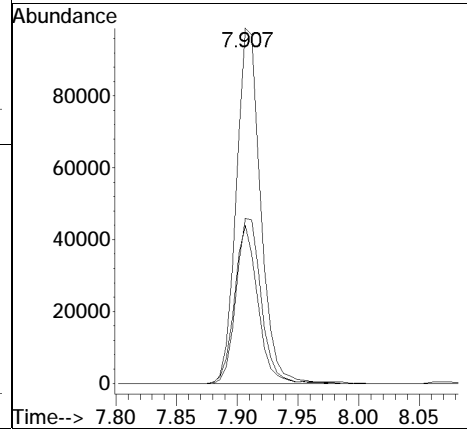
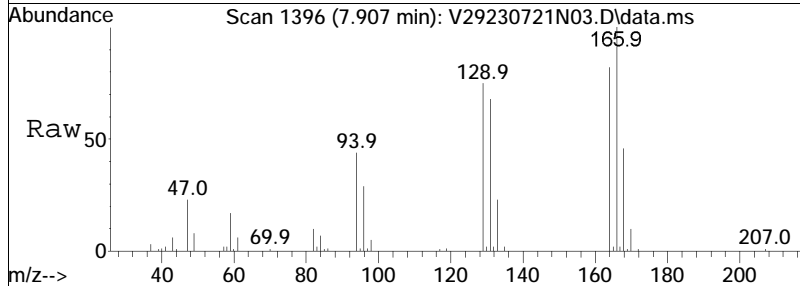
Tgt Ion	Resp	Lower	Upper
58	100		
100	33.1	20.2	30.2#
43	226.1	196.6	295.0

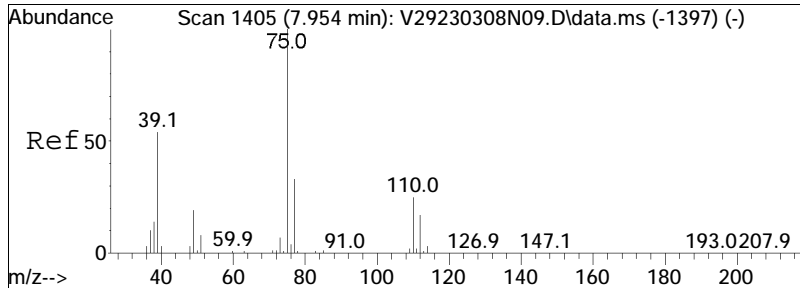




#63
 Tetrachloroethene
 Concen: 37.14 ug/L
 RT: 7.907 min Scan# 1396
 Delta R.T. -0.010 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

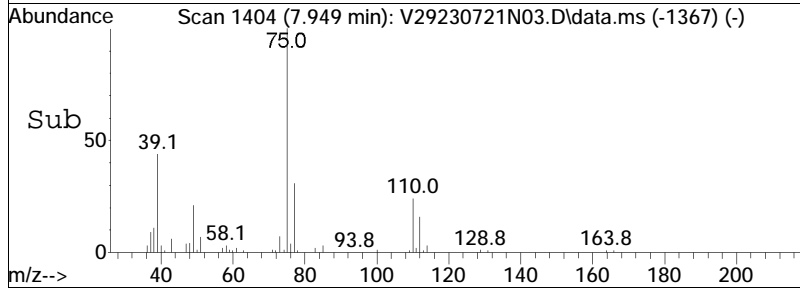
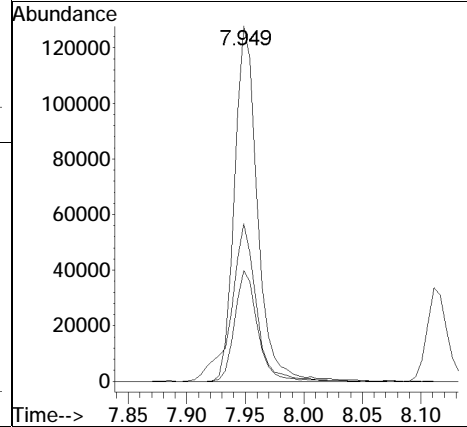
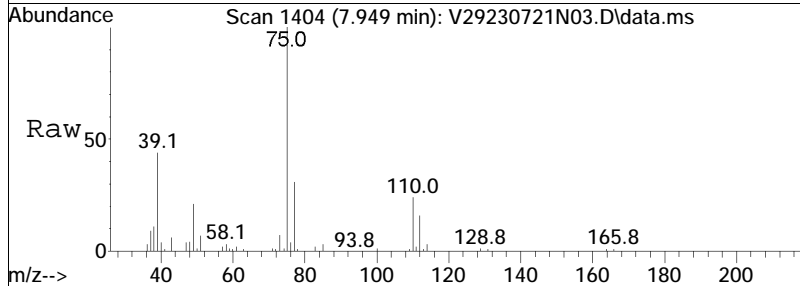
Tgt Ion	Ratio	Lower	Upper
166	100		
168	47.8	28.2	68.2
94	42.7	38.4	78.4

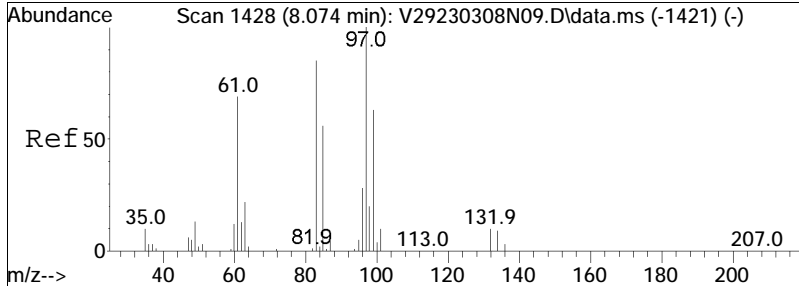




#65
 trans-1,3-Dichloropropene
 Concen: 36.18 ug/L
 RT: 7.949 min Scan# 1404
 Delta R.T. -0.005 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

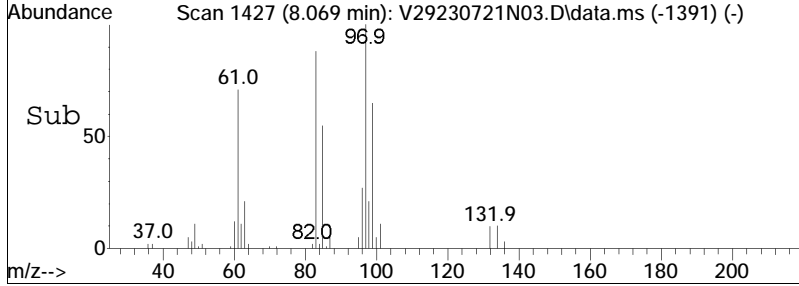
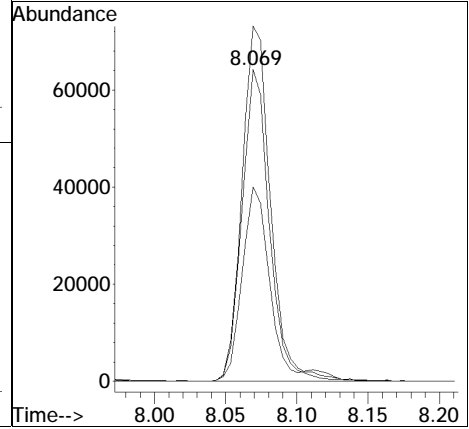
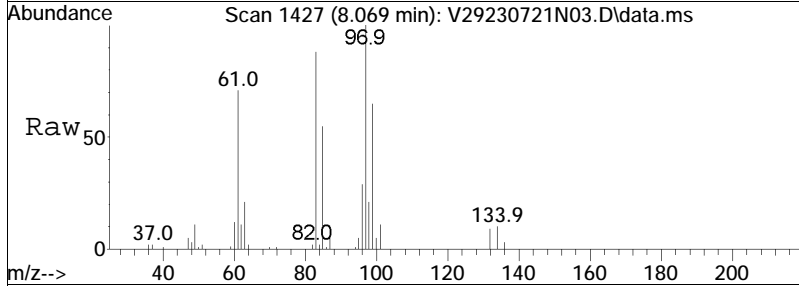
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
75	100		
77	31.1	12.4	52.4
39	49.0	42.8	82.8

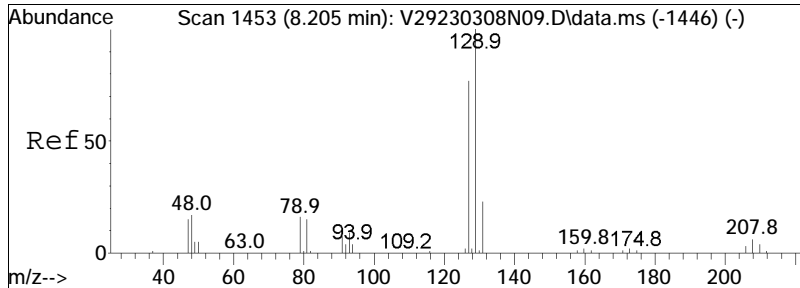




#68
 1,1,2-Trichloroethane
 Concen: 37.45 ug/L
 RT: 8.069 min Scan# 1427
 Delta R.T. -0.011 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

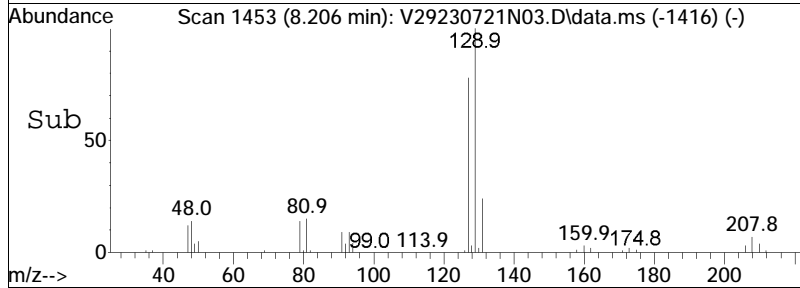
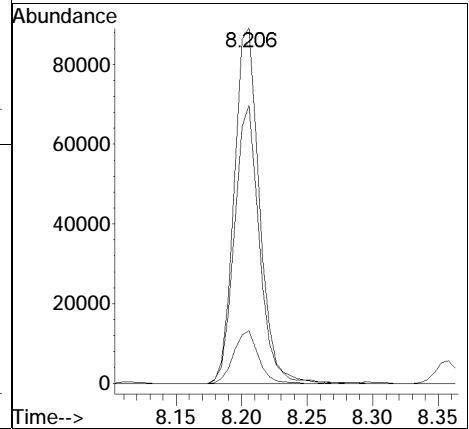
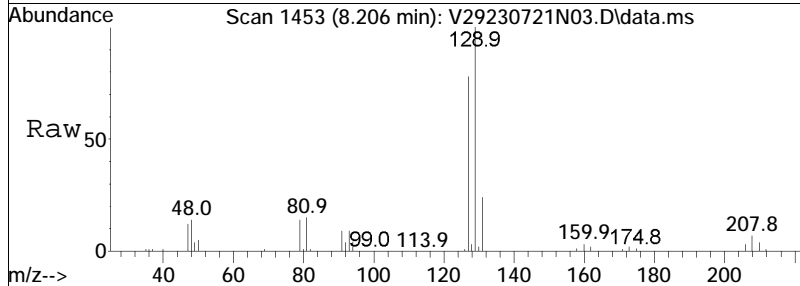
Tgt Ion:	83	Resp:	86129
Ion Ratio	Lower	Upper	
83	100		
97	118.8	89.8	129.8
85	61.6	44.4	84.4

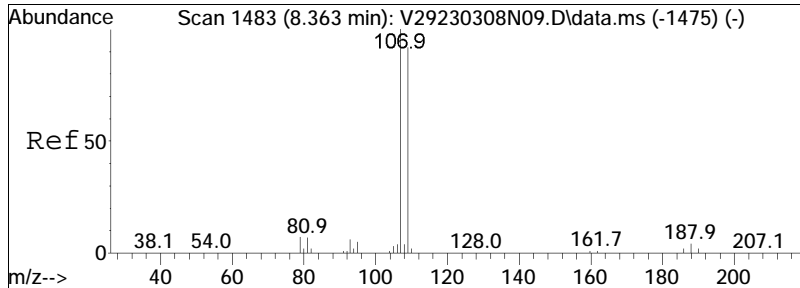




#69
 Chlorodibromomethane
 Concen: 35.89 ug/L
 RT: 8.206 min Scan# 1453
 Delta R.T. -0.005 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

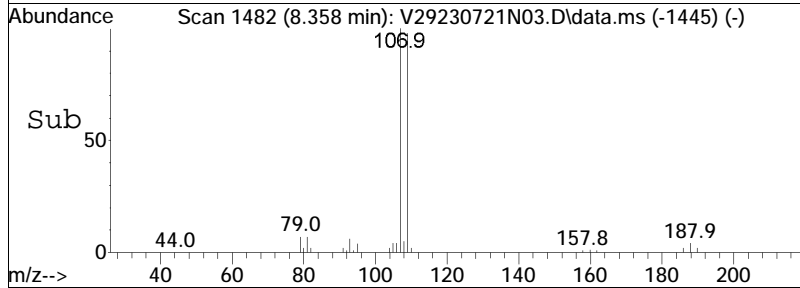
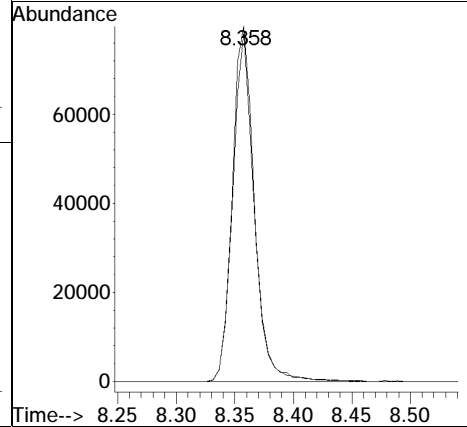
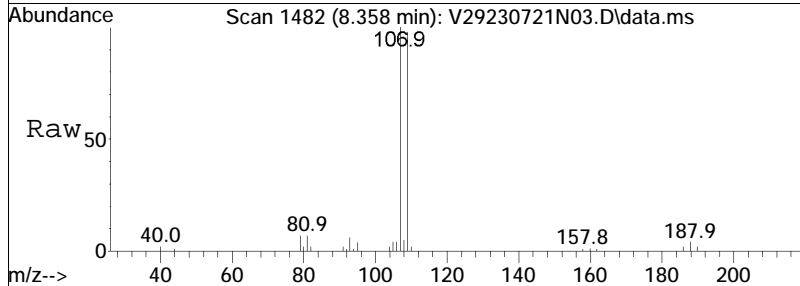
Tgt Ion	Resp	Lower	Upper
129	119486		
129	100		
81	14.5	2.9	42.9
127	77.0	57.8	97.8

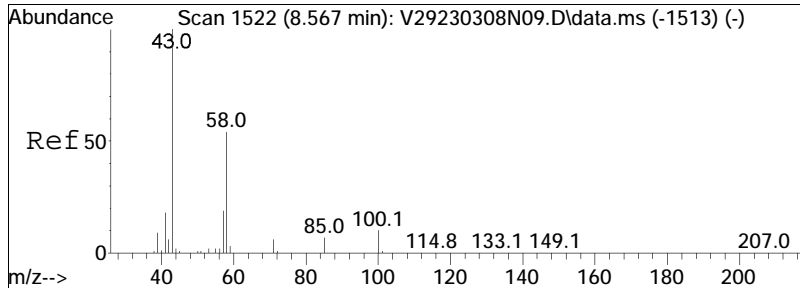




#71
 1,2-Dibromoethane
 Concen: 37.33 ug/L
 RT: 8.358 min Scan# 1482
 Delta R.T. -0.005 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

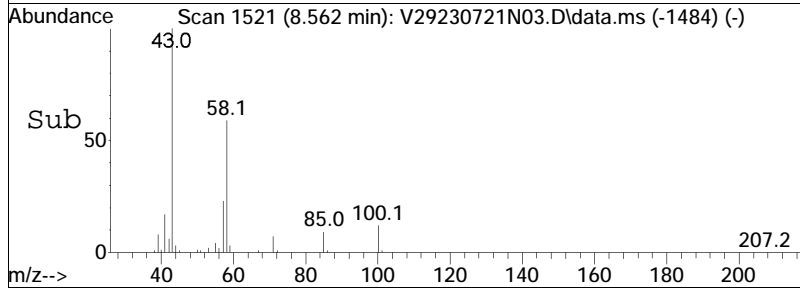
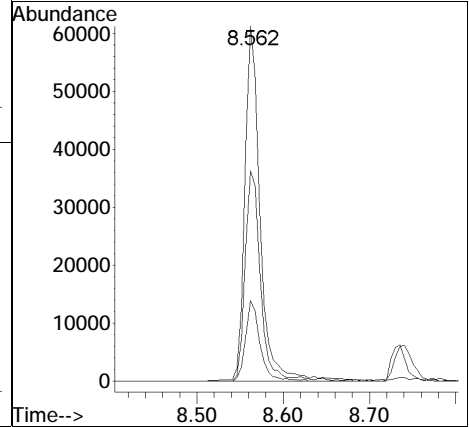
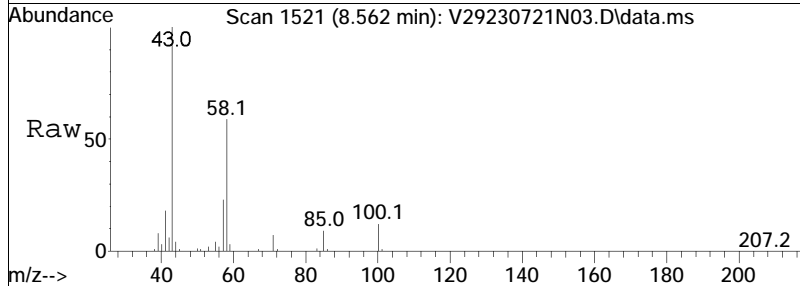
Tgt Ion	Resp	Lower	Upper
107	104602		
107	100		
109	94.9	74.3	111.5

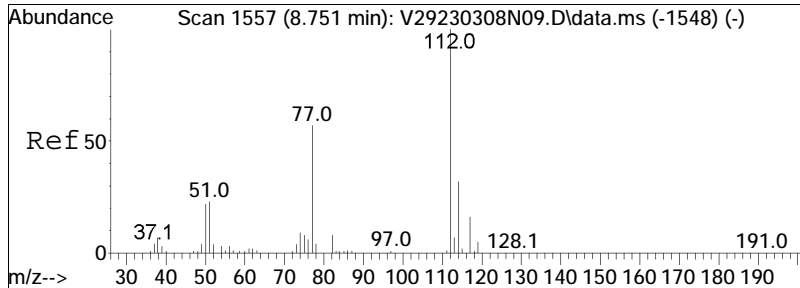




#72
 2-Hexanone
 Concen: 27.13 ug/L
 RT: 8.562 min Scan# 1521
 Delta R.T. -0.005 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

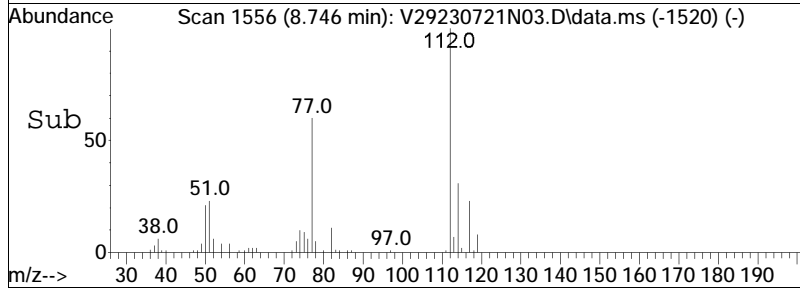
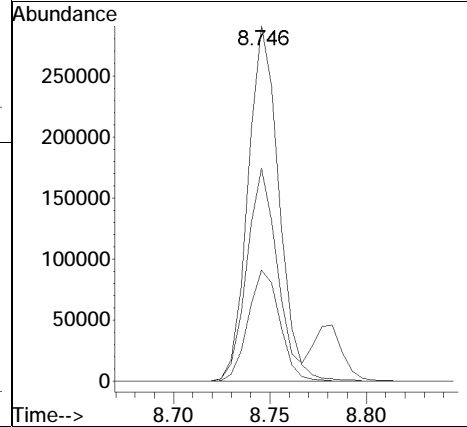
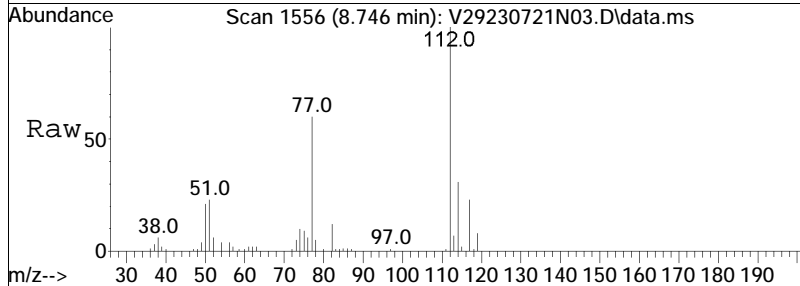
Tgt Ion:	43	58	57	Resp:	76654	Lower	Upper
Ion Ratio	100	58.9	21.6			41.2	61.8
						17.2	25.8

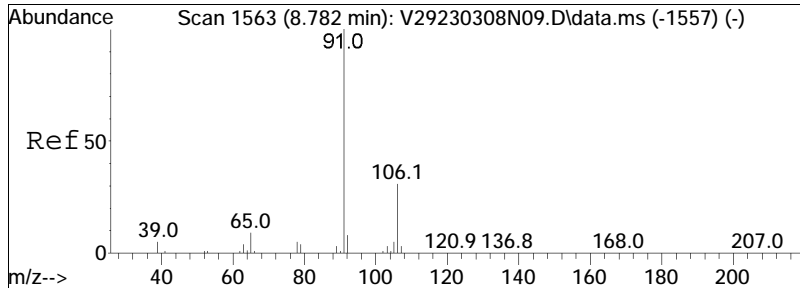




#73
 Chlorobenzene
 Concen: 37.55 ug/L
 RT: 8.746 min Scan# 1556
 Delta R.T. -0.010 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

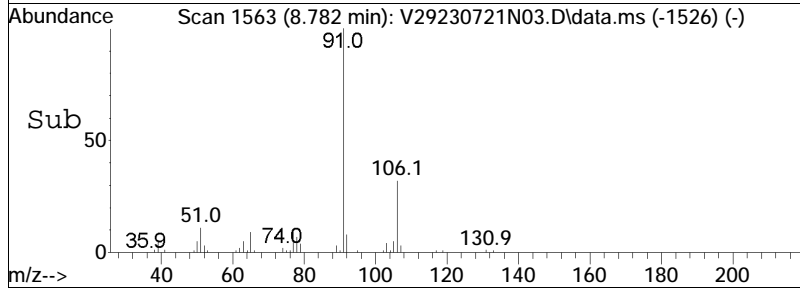
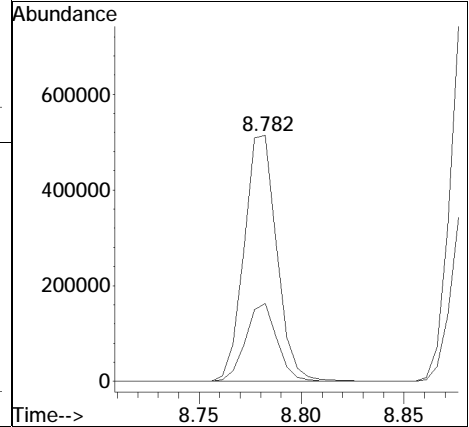
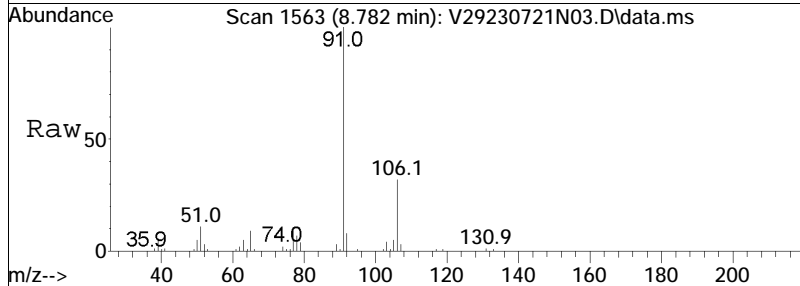
Tgt Ion	Resp	Lower	Upper
112	323850		
77	59.5	55.4	83.0
114	32.3	25.4	38.2

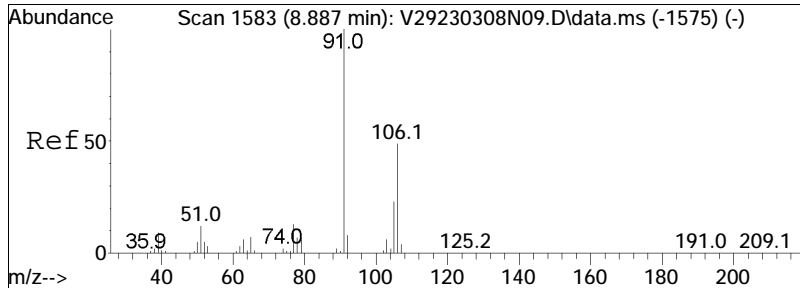




#74
 Ethylbenzene
 Concen: 40.07 ug/L
 RT: 8.782 min Scan# 1563
 Delta R.T. -0.005 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

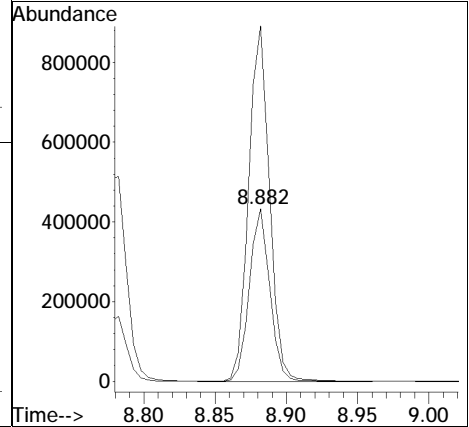
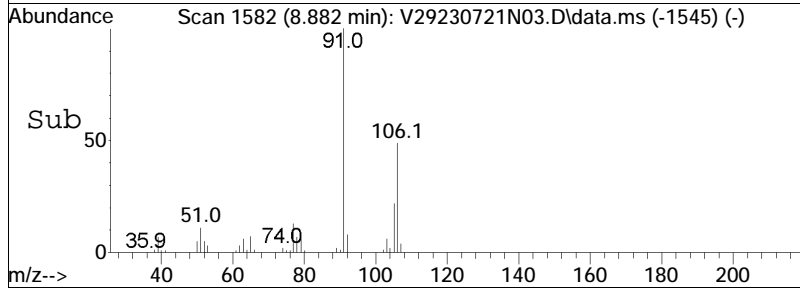
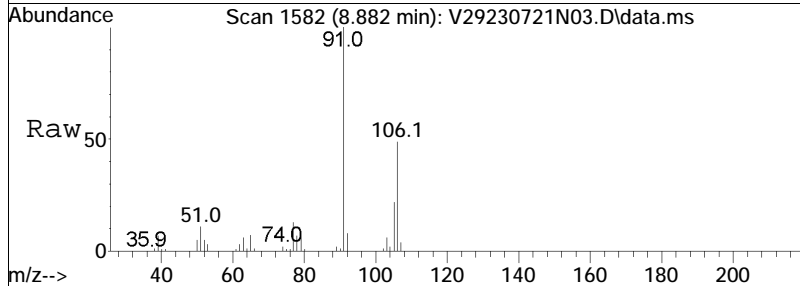
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.3	36.5

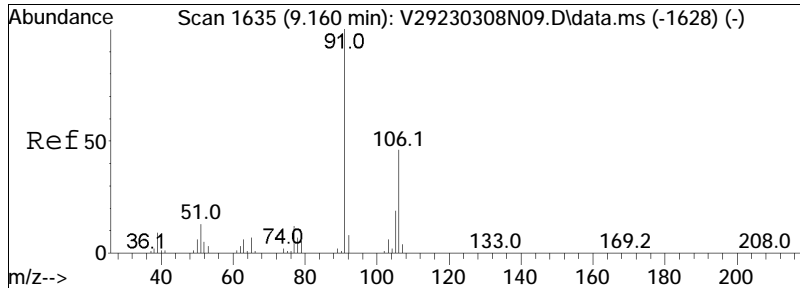




#76
 p/m Xylene
 Concen: 78.38 ug/L
 RT: 8.882 min Scan# 1582
 Delta R.T. -0.005 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

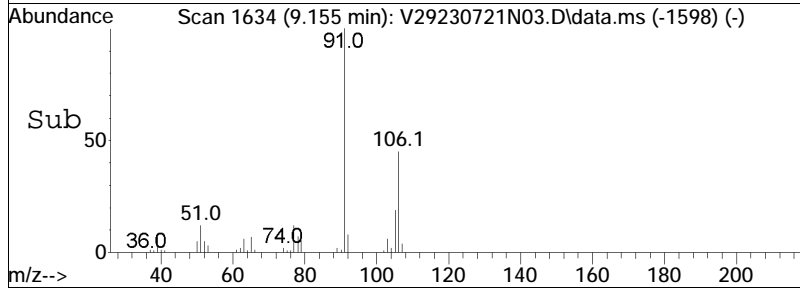
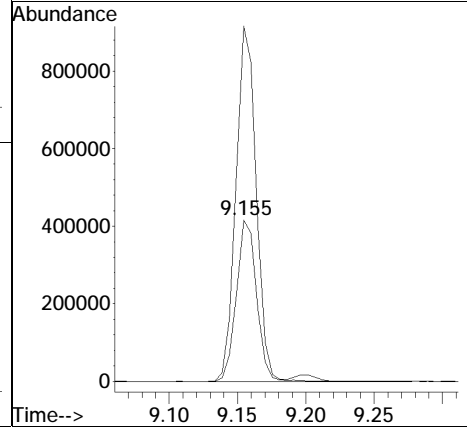
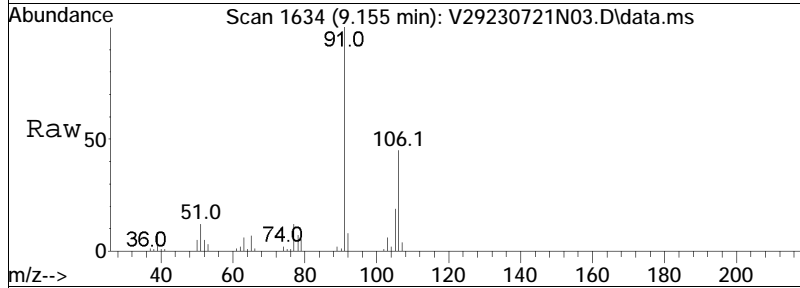
Tgt Ion	Resp	Lower	Upper
106	433336		
106	100		
91	209.0	166.4	249.6

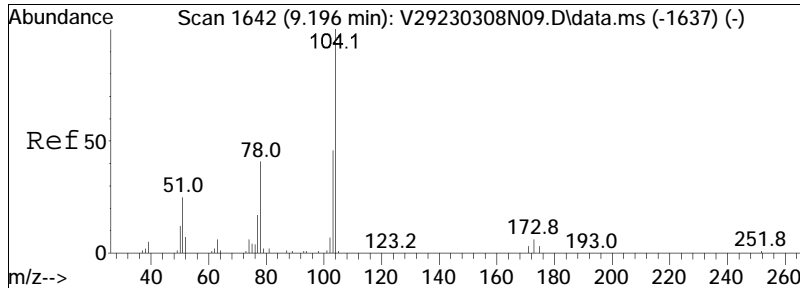




#77
 o Xylene
 Concen: 79.50 ug/L
 RT: 9.155 min Scan# 1634
 Delta R.T. -0.010 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

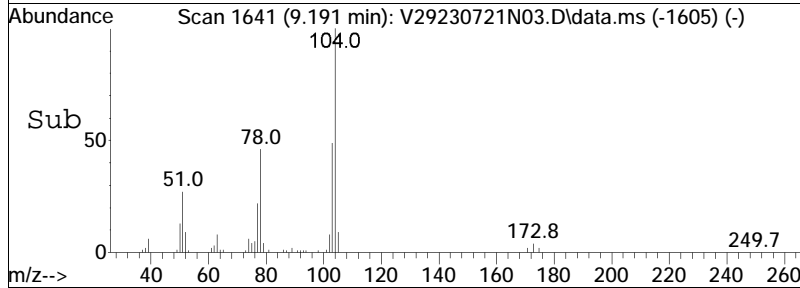
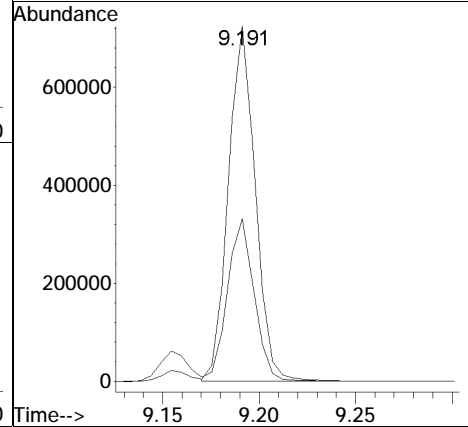
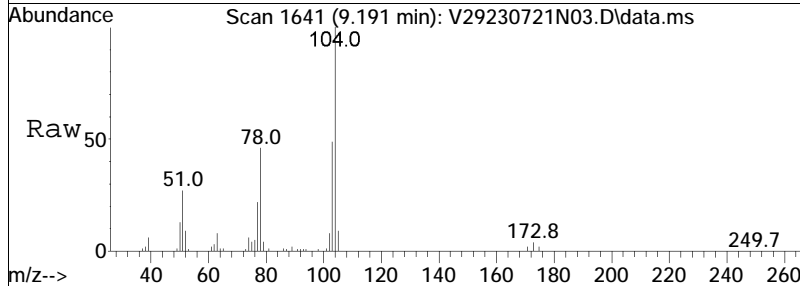
Tgt Ion	Resp	Lower	Upper
106	427948		
106	100		
91	219.7	182.6	273.8

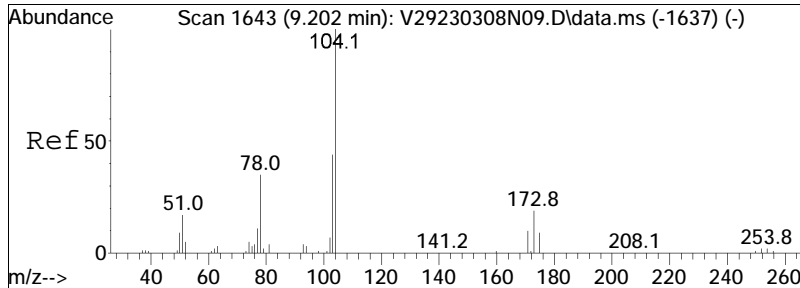




#78
 Styrene
 Concen: 78.13 ug/L
 RT: 9.191 min Scan# 1641
 Delta R.T. -0.011 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

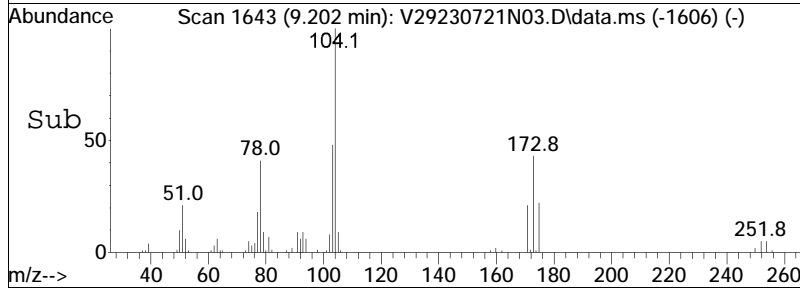
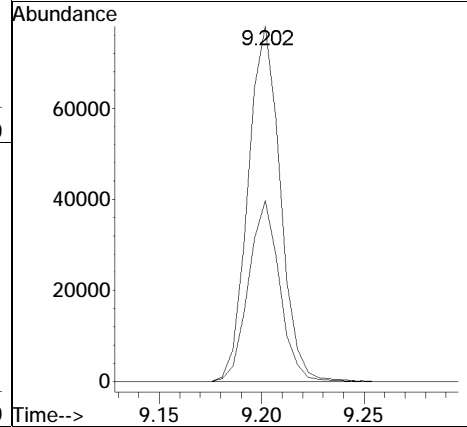
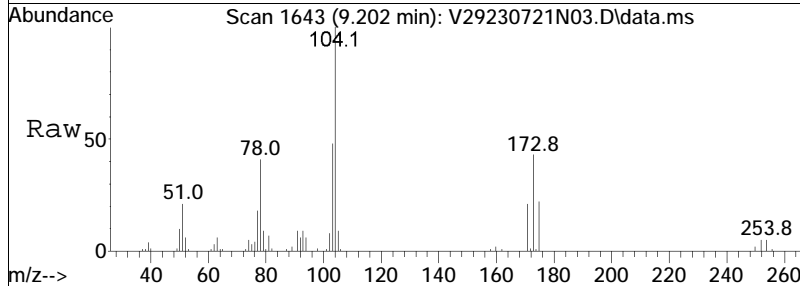
Tgt Ion:	104	Resp:	702732
Ion Ratio	Lower	Upper	
104	100		
78	45.7	39.8	59.6

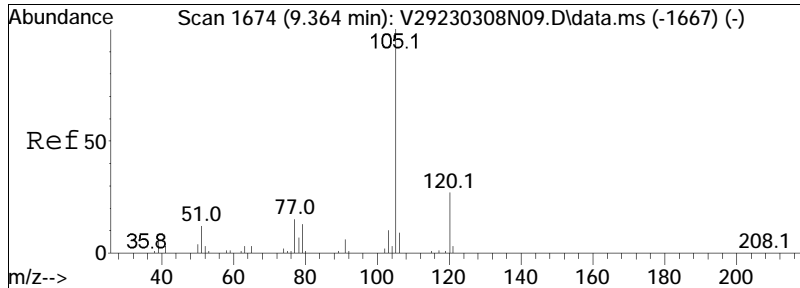




#80
 Bromoform
 Concen: 37.37 ug/L
 RT: 9.202 min Scan# 1643
 Delta R.T. -0.005 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

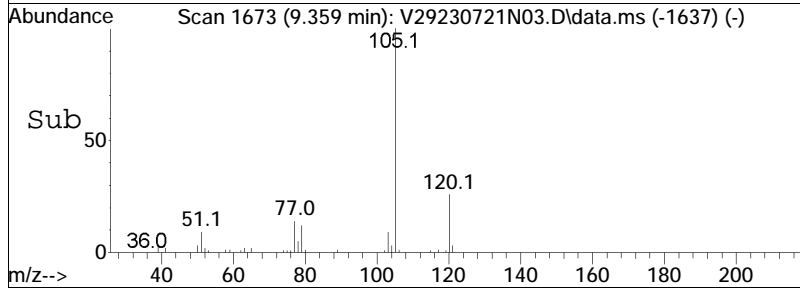
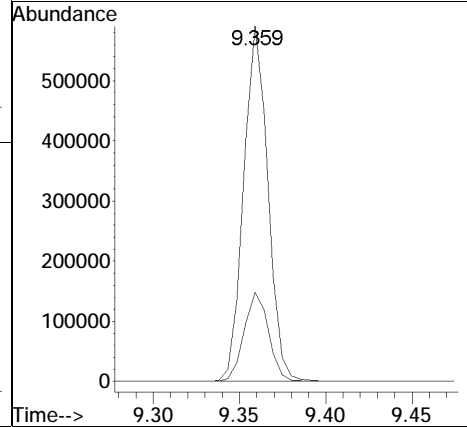
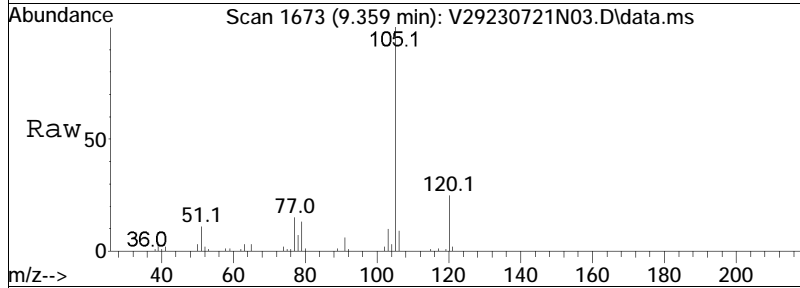
Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.2	31.5	71.5

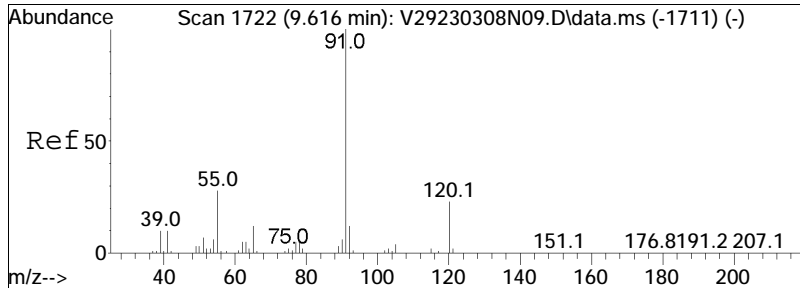




#82
 Isopropylbenzene
 Concen: 41.07 ug/L
 RT: 9.359 min Scan# 1673
 Delta R.T. -0.010 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

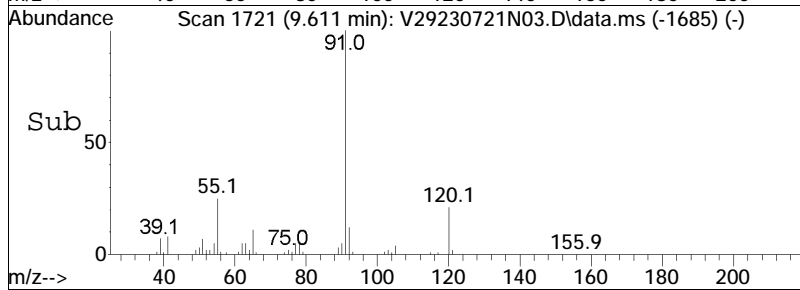
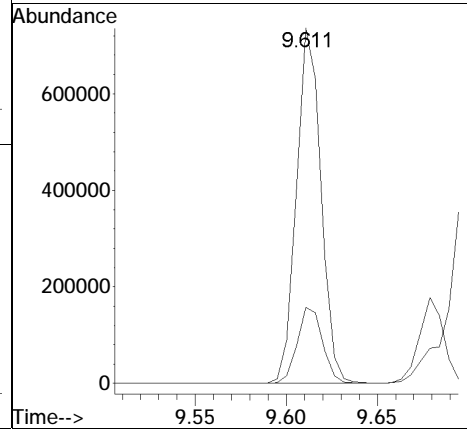
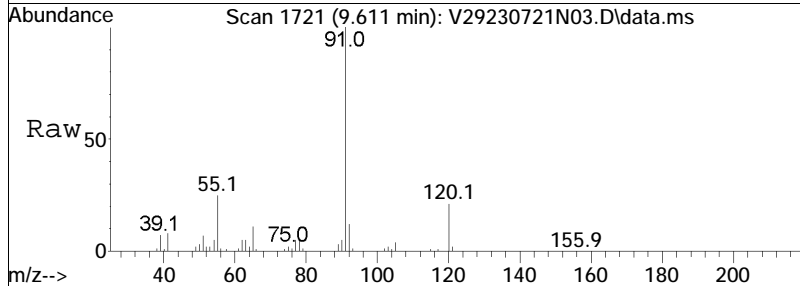
Tgt Ion	Resp	Lower	Upper
105	100		
120	25.3	4.8	44.8

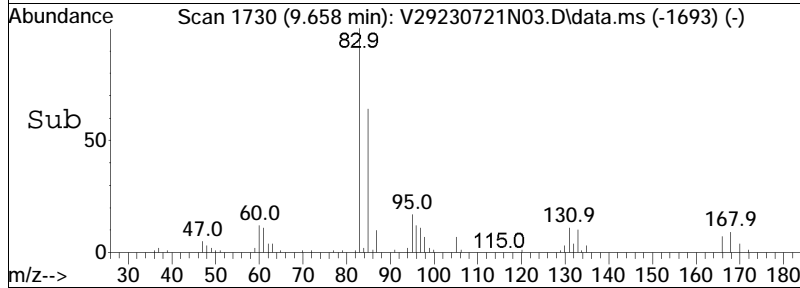
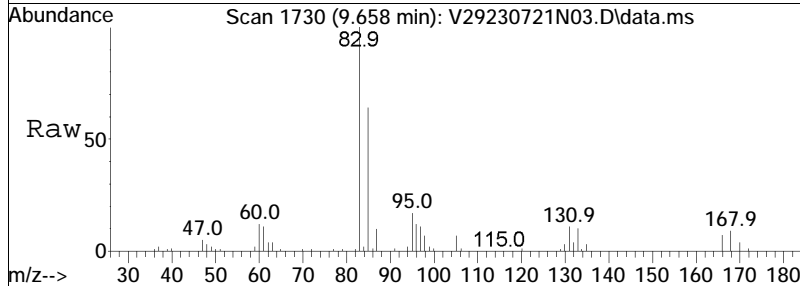
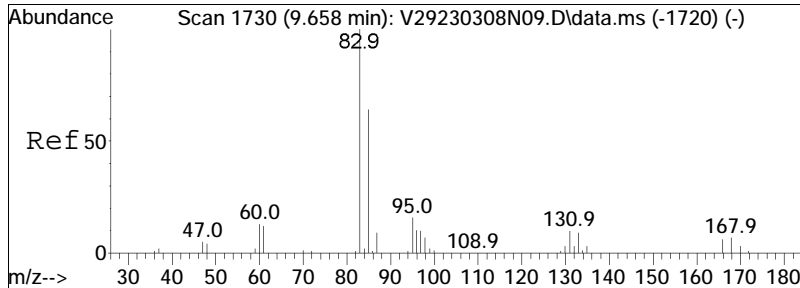




#85
 n-Propylbenzene
 Concen: 41.08 ug/L
 RT: 9.611 min Scan# 1721
 Delta R.T. -0.010 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

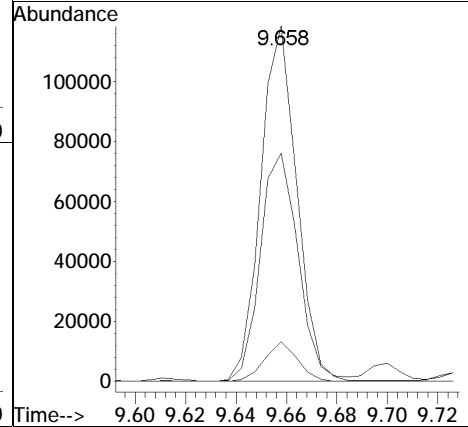
Tgt Ion	Resp	Ion Ratio	Lower	Upper
91	689628	100		
120		22.1	17.0	25.6

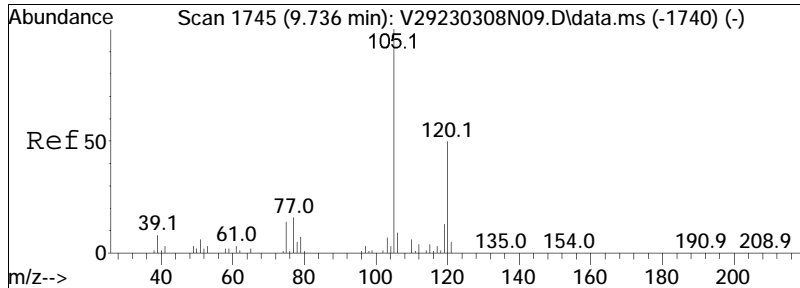




#87
 1,1,2,2-Tetrachloroethane
 Concen: 33.83 ug/L
 RT: 9.658 min Scan# 1730
 Delta R.T. -0.005 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

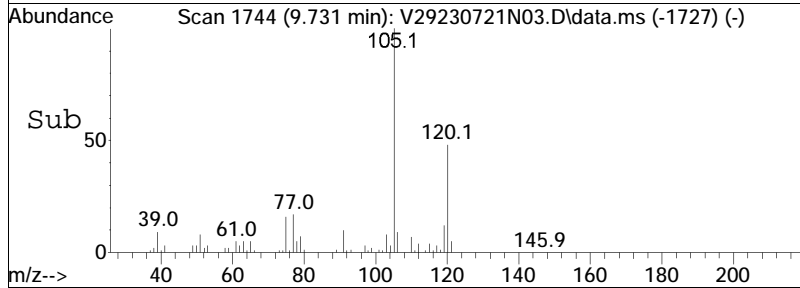
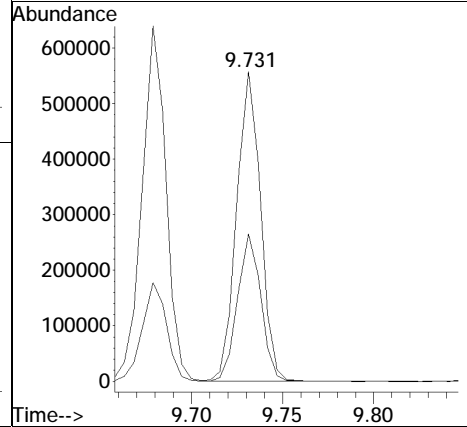
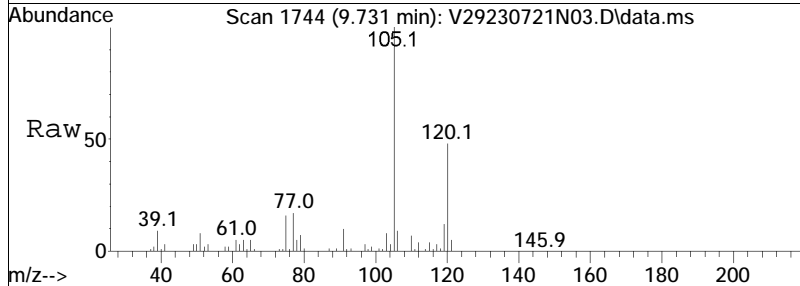
Tgt Ion:	83	Resp:	117890
Ion Ratio	Lower	Upper	
83	100		
131	10.2	0.0	30.4
85	67.5	45.4	85.4

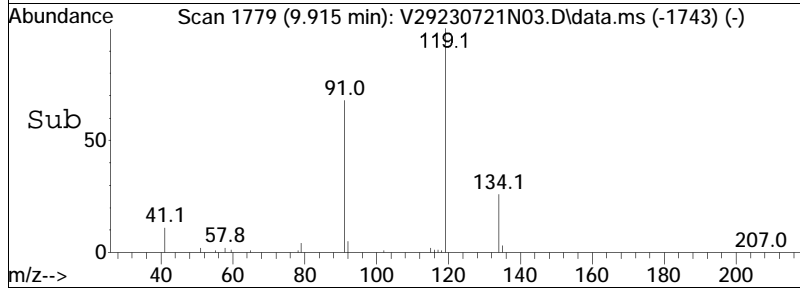
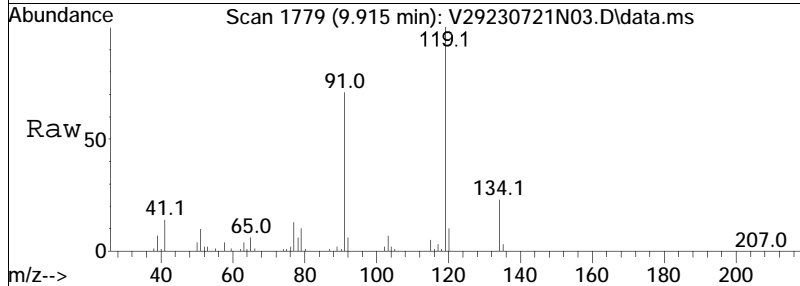
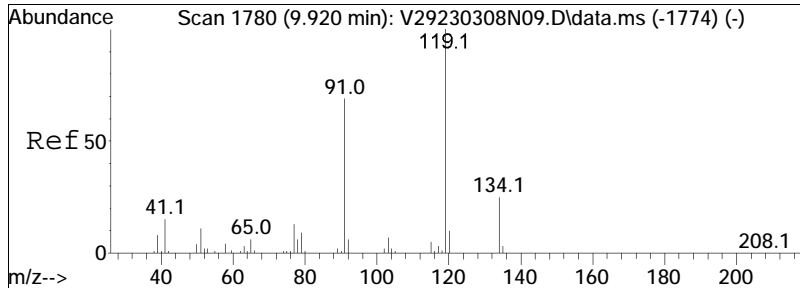




#90
 1,3,5-Trimethylbenzene
 Concen: 41.14 ug/L
 RT: 9.731 min Scan# 1744
 Delta R.T. -0.011 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

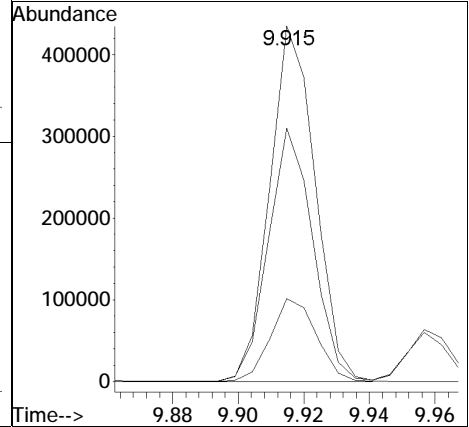
Tgt Ion	Resp	Lower	Upper
105	100		
120	46.7	34.8	52.2

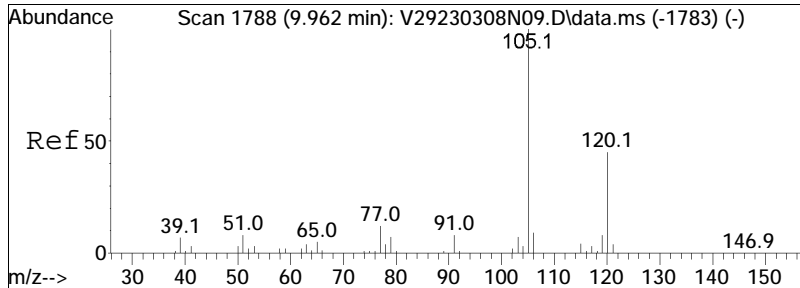




#94
 tert-Butylbenzene
 Concen: 39.64 ug/L
 RT: 9.915 min Scan# 1779
 Delta R.T. -0.010 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

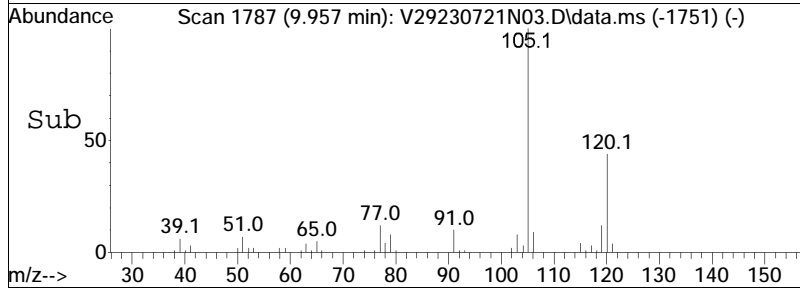
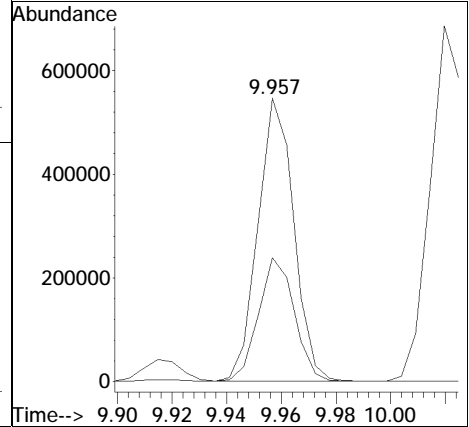
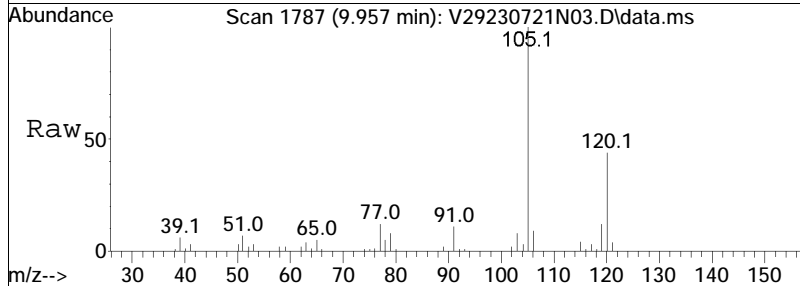
Tgt Ion	Resp	Lower	Upper
119	418321		
119	100		
91	69.8	51.4	77.2
134	23.5	18.3	27.5

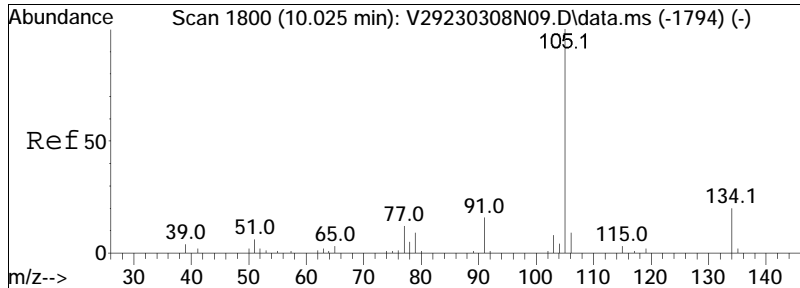




#97
 1,2,4-Trimethylbenzene
 Concen: 40.34 ug/L
 RT: 9.957 min Scan# 1787
 Delta R.T. -0.010 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

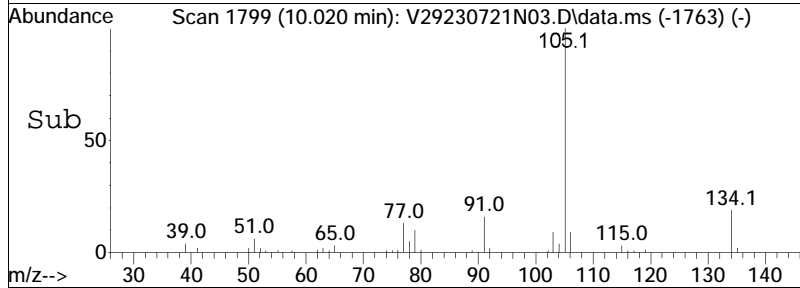
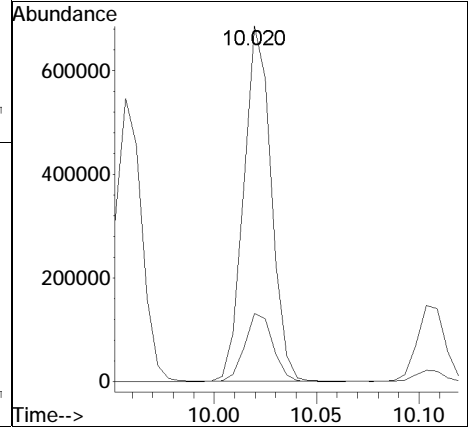
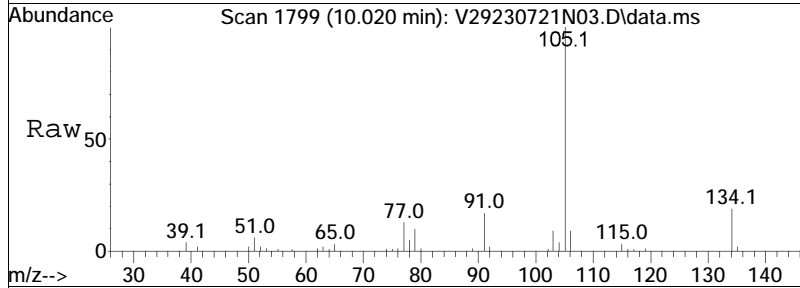
Tgt Ion	Resp	Lower	Upper
105	100		
120	43.8	33.4	50.0

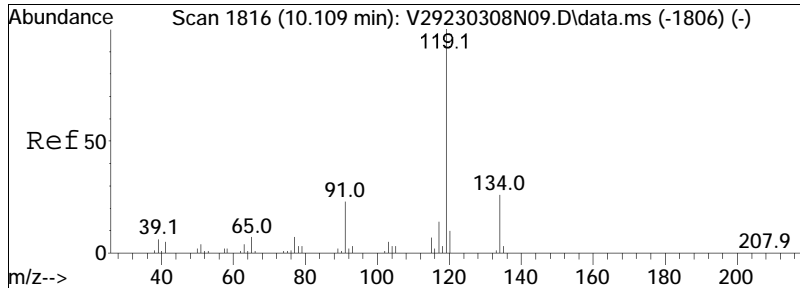




#98
 sec-Butylbenzene
 Concen: 41.49 ug/L
 RT: 10.020 min Scan# 1799
 Delta R.T. -0.010 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

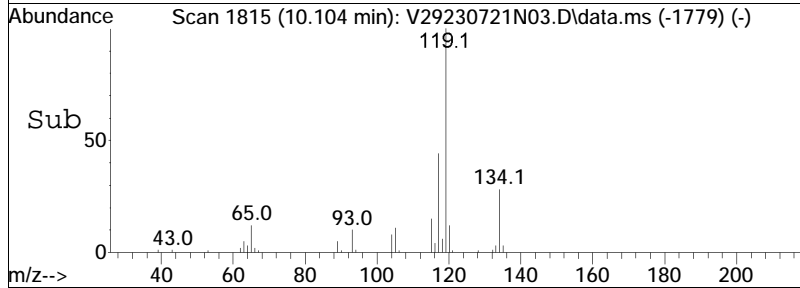
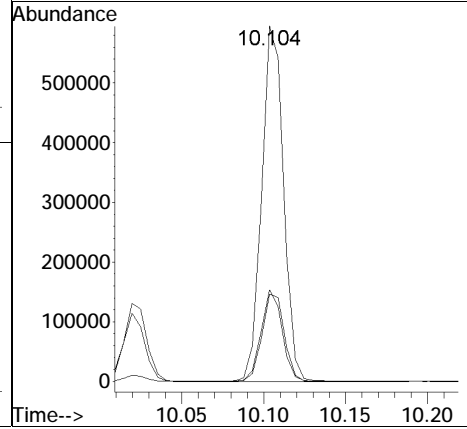
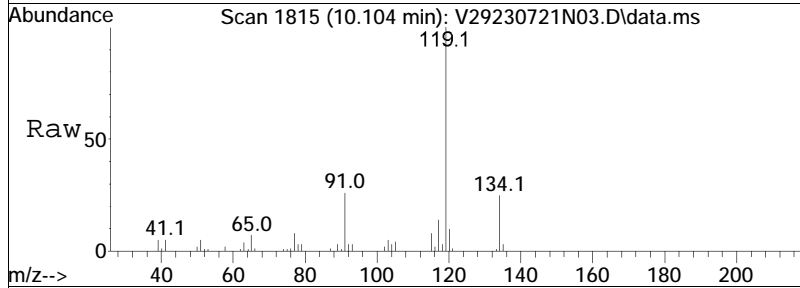
Tgt Ion: 105 Resp: 638879
 Ion Ratio Lower Upper
 105 100
 134 19.6 12.5 26.1

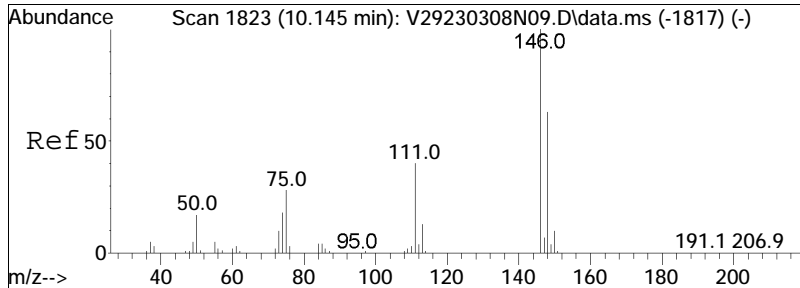




#99
 p-Isopropyltoluene
 Concen: 40.35 ug/L
 RT: 10.104 min Scan# 1815
 Delta R.T. -0.010 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

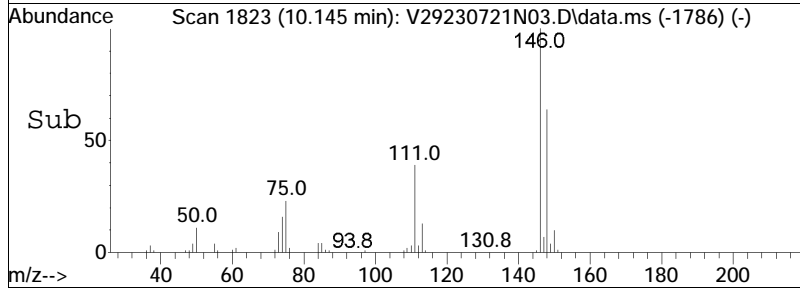
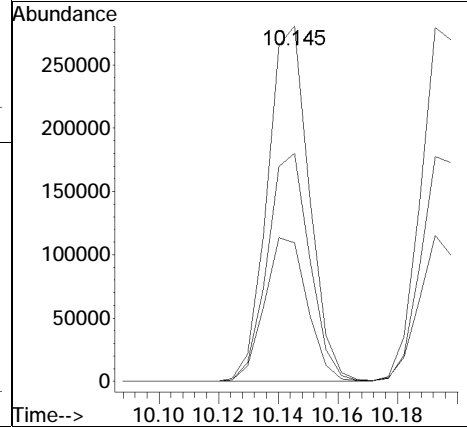
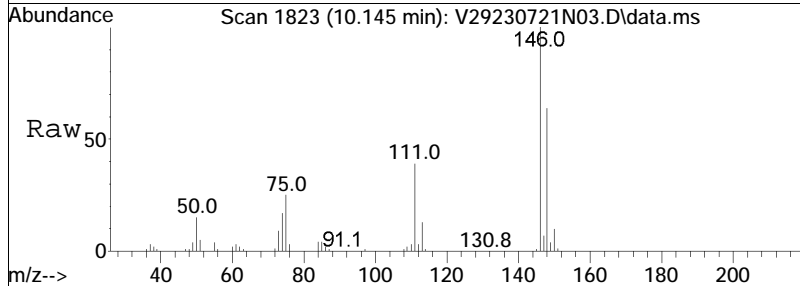
Tgt Ion	Resp	Lower	Upper
119	100		
134	25.2	16.1	33.3
91	24.8	17.3	35.9

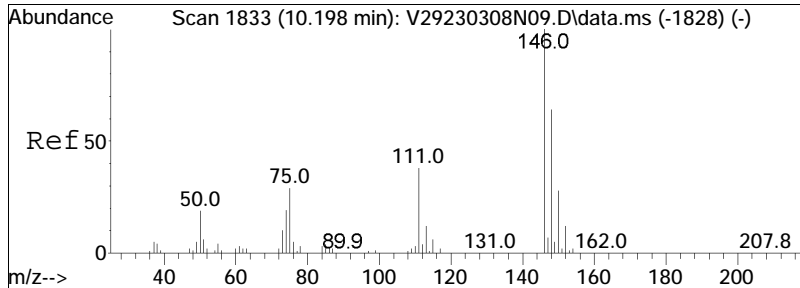




#100
 1,3-Dichlorobenzene
 Concen: 37.84 ug/L
 RT: 10.145 min Scan# 1823
 Delta R.T. -0.006 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

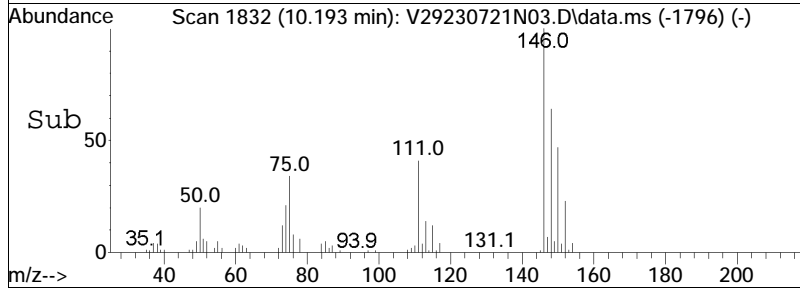
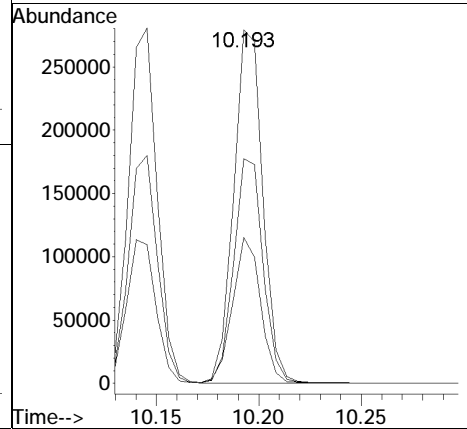
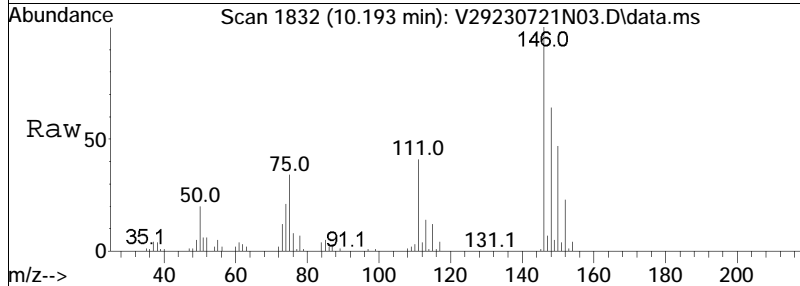
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.5	27.5	57.1
148	64.9	41.9	86.9

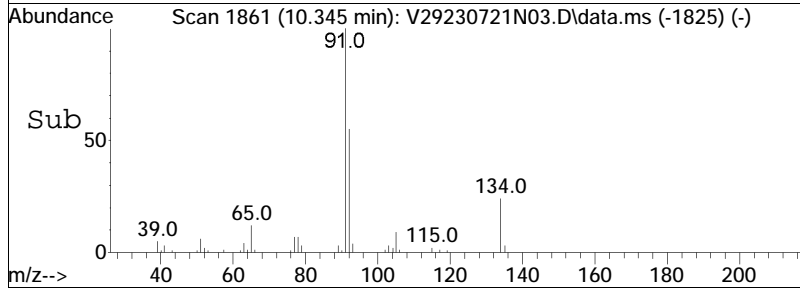
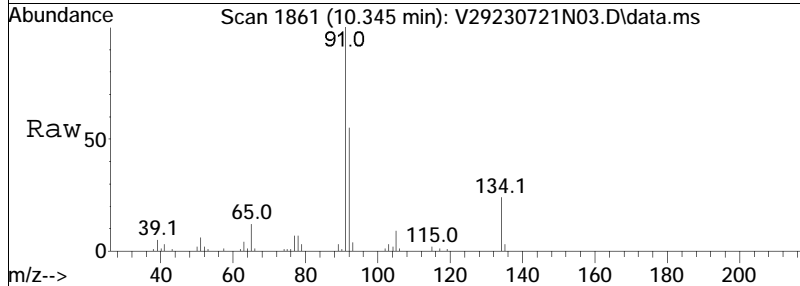
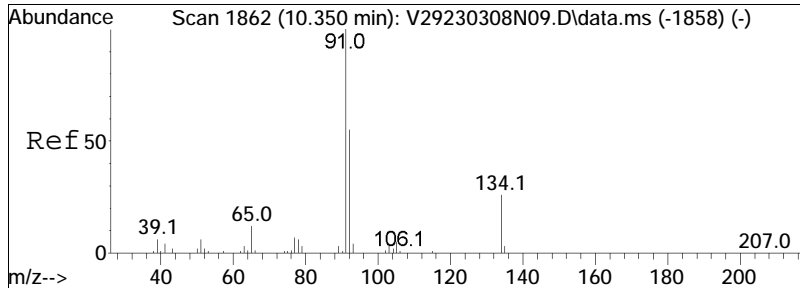




#101
 1,4-Dichlorobenzene
 Concen: 37.35 ug/L
 RT: 10.193 min Scan# 1832
 Delta R.T. -0.010 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

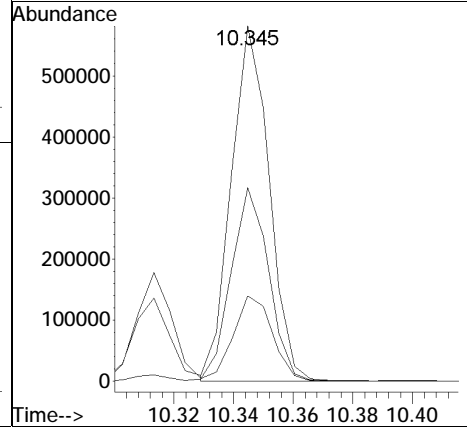
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	32.3	48.5
148	64.3	49.9	74.9

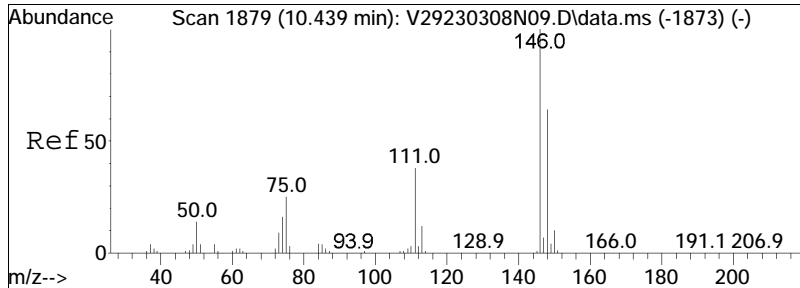




#103
 n-Butylbenzene
 Concen: 43.03 ug/L
 RT: 10.345 min Scan# 1861
 Delta R.T. -0.010 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

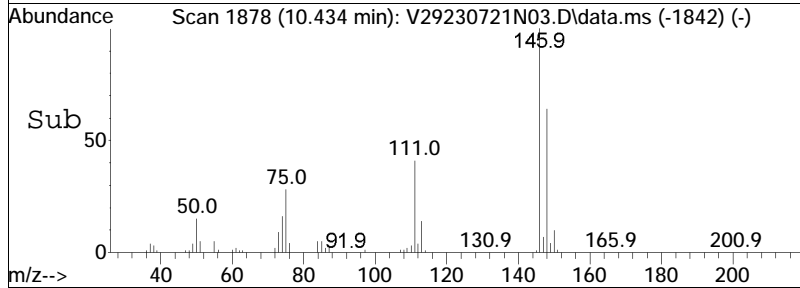
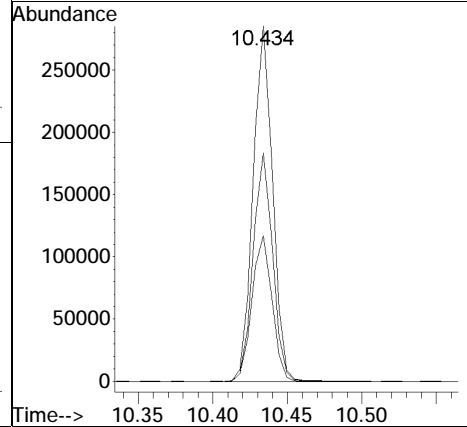
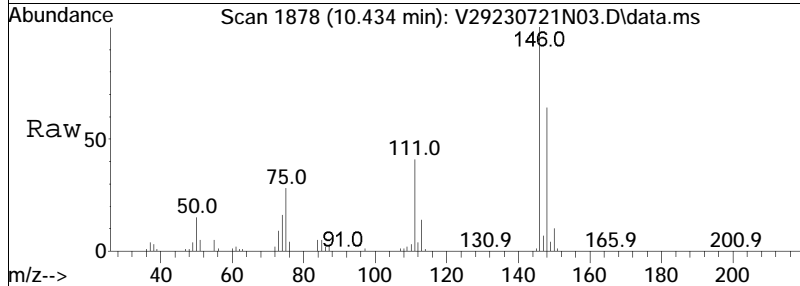
Tgt Ion:	91	92	134	Resp:	514090	Lower	Upper
Ion Ratio	100	54.4	24.9			43.0	64.4
						19.6	29.4

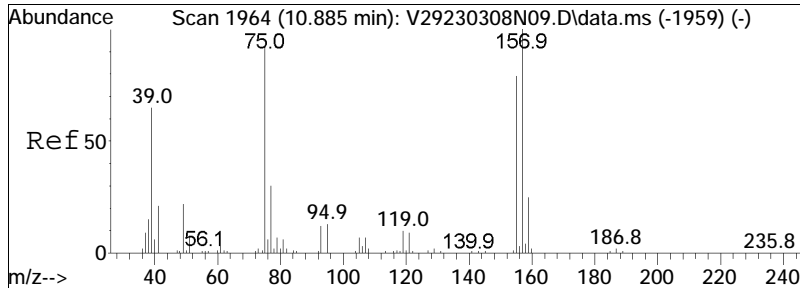




#104
 1,2-Dichlorobenzene
 Concen: 37.50 ug/L
 RT: 10.434 min Scan# 1878
 Delta R.T. -0.010 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

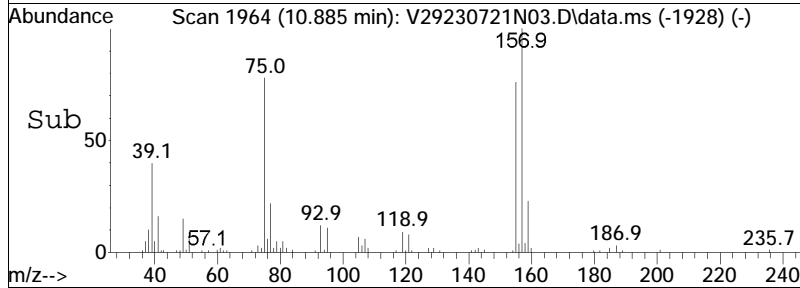
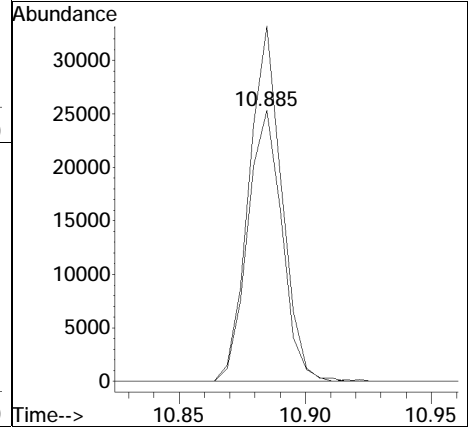
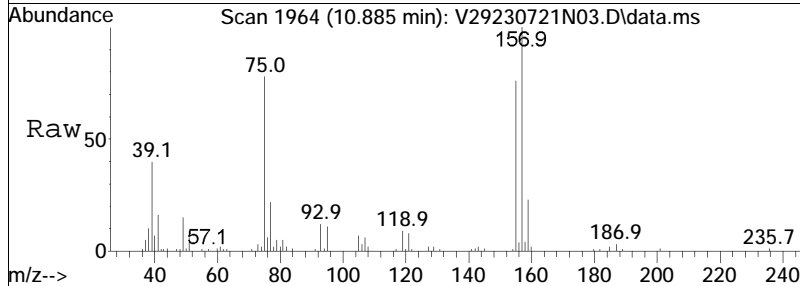
Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.2	28.3	58.7
148	64.2	42.3	87.8

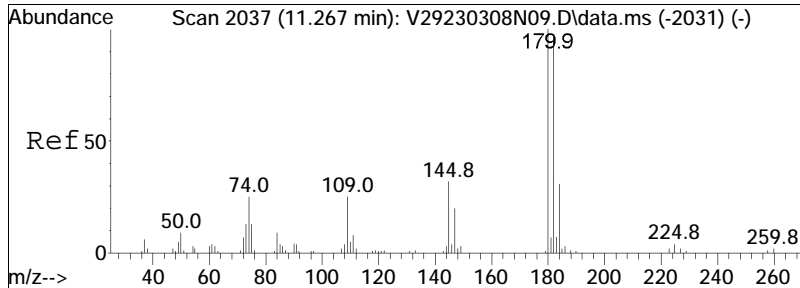




#106
 1,2-Dibromo-3-chloropropane
 Concen: 34.01 ug/L
 RT: 10.885 min Scan# 1964
 Delta R.T. -0.010 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

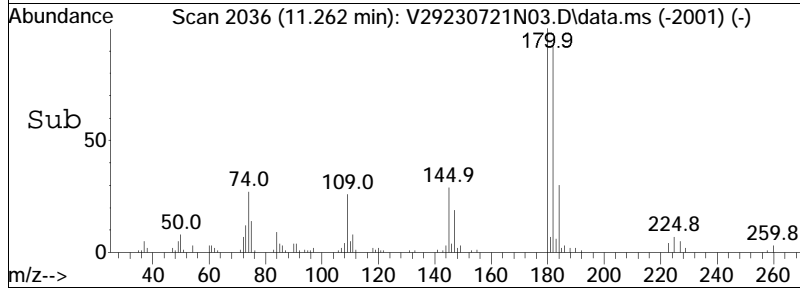
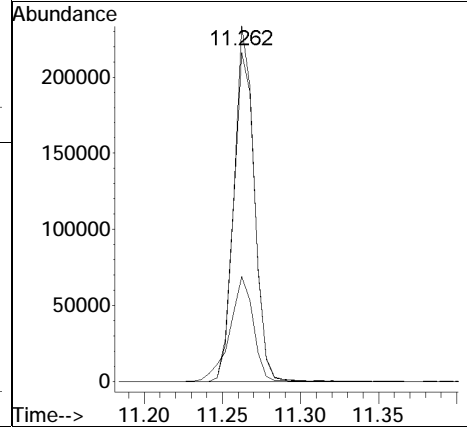
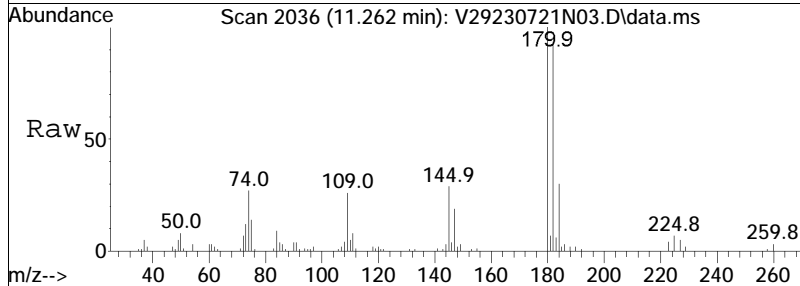
Tgt Ion	Resp	Lower	Upper
155	100		
157	125.3	94.8	142.2

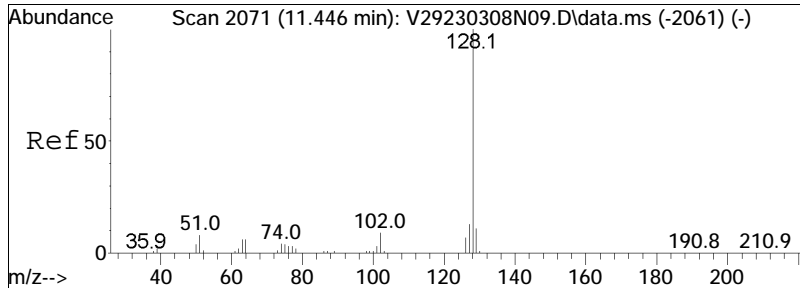




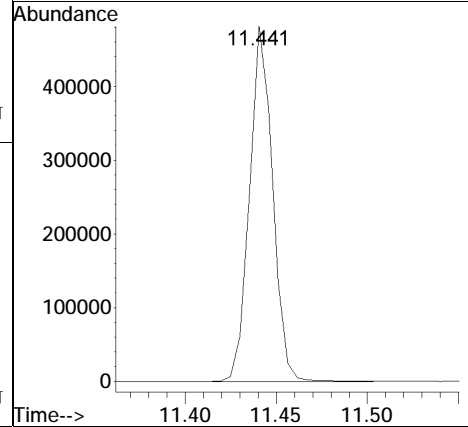
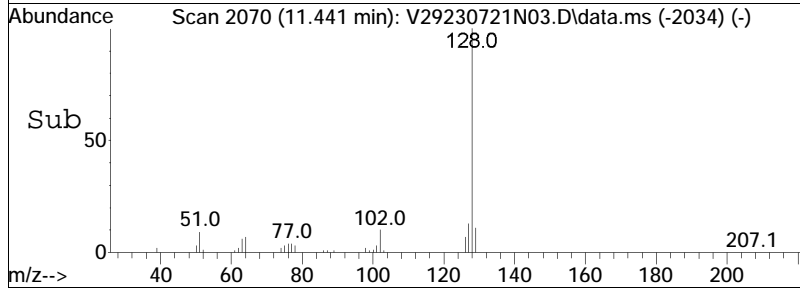
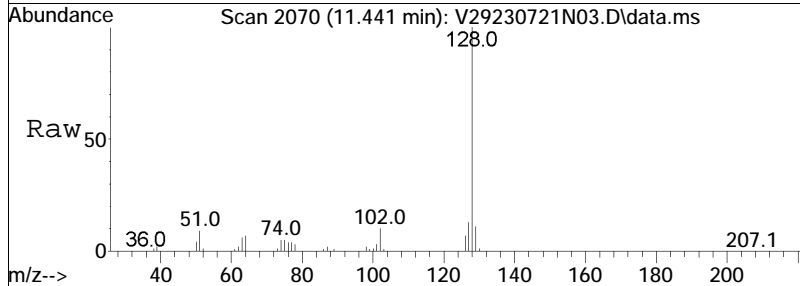
#109
 1,2,4-Trichlorobenzene
 Concen: 40.20 ug/L
 RT: 11.262 min Scan# 2036
 Delta R.T. -0.016 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	77.3	115.9
145	34.0	28.1	42.1





#110
 Naphthalene
 Concen: 34.79 ug/L
 RT: 11.441 min Scan# 2070
 Delta R.T. -0.011 min
 Lab File: V29230721N03.D
 Acq: 21 Jul 2023 07:18 pm
 Tgt Ion:128 Resp: 423721



Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N26.D
 Acq On : 22 Jul 2023 03:15 am
 Operator : VOA129:AJK
 Sample : WG1806697-6,31,6.66,5,,b1
 Misc : WG1806697,ICAL19799
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 23 15:30:06 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.893	96	246272	20.000	ug/L	0.00
Standard Area 1 = 283796			Recovery =	86.78%		
59) Chlorobenzene-d5	8.735	117	195497	20.000	ug/L	0.00
Standard Area 1 = 220595			Recovery =	88.62%		
79) 1,4-Dichlorobenzene-d4	10.187	152	109781	20.000	ug/L	0.00
Standard Area 1 = 120931			Recovery =	90.78%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.965	113	64521	19.913	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.56%		
43) 1,2-Dichloroethane-d4	5.563	65	74192	20.622	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	103.11%		
60) Toluene-d8	7.529	98	252938	19.905	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.53%		
83) 4-Bromofluorobenzene	9.527	95	100089	20.284	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	101.42%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.070	85	278710	104.174	ug/L #	95
3) Chloromethane	1.216	50	275676	72.529	ug/L	97
4) Vinyl chloride	1.269	62	294658	93.923	ug/L	96
5) Bromomethane	1.505	94	215917	132.375	ug/L	99
6) Chloroethane	1.599	64	177343	100.270	ug/L	98
7) Trichlorofluoromethane	1.714	101	436979	119.315	ug/L	95
10) 1,1-Dichloroethene	2.129	96	254464	115.480	ug/L #	73
11) Carbon disulfide	2.139	76	850779	108.651	ug/L	96
12) Freon-113	2.181	101	279079	115.064	ug/L	91
15) Methylene chloride	2.679	84	287803	100.401	ug/L	76
17) Acetone	2.742	43	76446	100.148	ug/L #	88
18) trans-1,2-Dichloroethene	2.852	96	288201	107.042	ug/L	85
19) Methyl acetate	2.894	43	230615	113.424	ug/L #	91
20) Methyl tert-butyl ether	3.004	73	759339	112.519	ug/L	96
23) 1,1-Dichloroethane	3.576	63	571370	110.034	ug/L	99
28) cis-1,2-Dichloroethene	4.341	96	307474	102.348	ug/L #	76
31) Cyclohexane	4.598	56	634723	111.562	ug/L	89
32) Chloroform	4.745	83	527509	109.923	ug/L	95
34) Carbon tetrachloride	4.871	117	422780	111.031	ug/L	98
37) 1,1,1-Trichloroethane	4.955	97	489378	121.530	ug/L #	96

Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N26.D
 Acq On : 22 Jul 2023 03:15 am
 Operator : VOA129:AJK
 Sample : WG1806697-6,31,6.66,5,,b1
 Misc : WG1806697,ICAL19799
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 23 15:30:06 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2-Butanone	5.128	43	117183	64.529	ug/L	# 43
41) Benzene	5.406	78	1096529	106.628	ug/L	94
44) 1,2-Dichloroethane	5.642	62	407146	103.118	ug/L	98
47) Methyl cyclohexane	6.066	83	520398	107.252	ug/L	88
48) Trichloroethene	6.087	95	317904	108.555	ug/L	98
51) 1,2-Dichloropropane	6.617	63	323053	97.253	ug/L	93
54) Bromodichloromethane	6.722	83	406818	106.059	ug/L	98
58) cis-1,3-Dichloropropene	7.356	75	445675	95.028	ug/L	# 86
61) Toluene	7.576	92	674393	93.634	ug/L	96
62) 4-Methyl-2-pentanone	7.922	58	106578	76.516	ug/L	# 89
63) Tetrachloroethene	7.907	166	307450	87.719	ug/L	89
65) trans-1,3-Dichloropropene	7.949	75	400038	87.997	ug/L	89
68) 1,1,2-Trichloroethane	8.069	83	198699	91.661	ug/L	96
69) Chlorodibromomethane	8.205	129	291600	92.935	ug/L	95
71) 1,2-Dibromoethane	8.358	107	236124	89.411	ug/L	98
72) 2-Hexanone	8.562	43	170833	64.143	ug/L	91
73) Chlorobenzene	8.745	112	711443	87.509	ug/L	92
74) Ethylbenzene	8.782	91	1277545	94.887	ug/L	99
76) p/m Xylene	8.882	106	948989	182.103	ug/L	99
77) o Xylene	9.160	106	924000	182.103	ug/L	97
78) Styrene	9.191	104	1539310	181.559	ug/L	94
80) Bromoform	9.202	173	200395	89.410	ug/L	96
82) Isopropylbenzene	9.359	105	1247530	90.157	ug/L	98
85) n-Propylbenzene	9.611	91	1438313	87.176	ug/L	99
87) 1,1,2,2-Tetrachloroethane	9.658	83	272902	79.674	ug/L	99
90) 1,3,5-Trimethylbenzene	9.731	105	1070322	87.742	ug/L	95
94) tert-Butylbenzene	9.920	119	895486	86.325	ug/L	93
97) 1,2,4-Trimethylbenzene	9.957	105	1041236	85.898	ug/L	97
98) sec-Butylbenzene	10.020	105	1331709	87.984	ug/L	100
99) p-Isopropyltoluene	10.103	119	1101545	82.047	ug/L	98
100) 1,3-Dichlorobenzene	10.145	146	551321	77.364	ug/L	99
101) 1,4-Dichlorobenzene	10.193	146	549901	75.599	ug/L	98
103) n-Butylbenzene	10.345	91	975322	83.055	ug/L	99
104) 1,2-Dichlorobenzene	10.434	146	529404	77.615	ug/L	99
106) 1,2-Dibromo-3-chloropr...	10.885	155	52173	75.394	ug/L	90
109) 1,2,4-Trichlorobenzene	11.262	180	375904	72.754	ug/L	99
110) Naphthalene	11.440	128	840812	70.240	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N26.D
Acq On : 22 Jul 2023 03:15 am
Operator : VOA129:AJK
Sample : WG1806697-6,31,6.66,5,,b1
Misc : WG1806697,ICAL19799
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 23 15:30:06 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

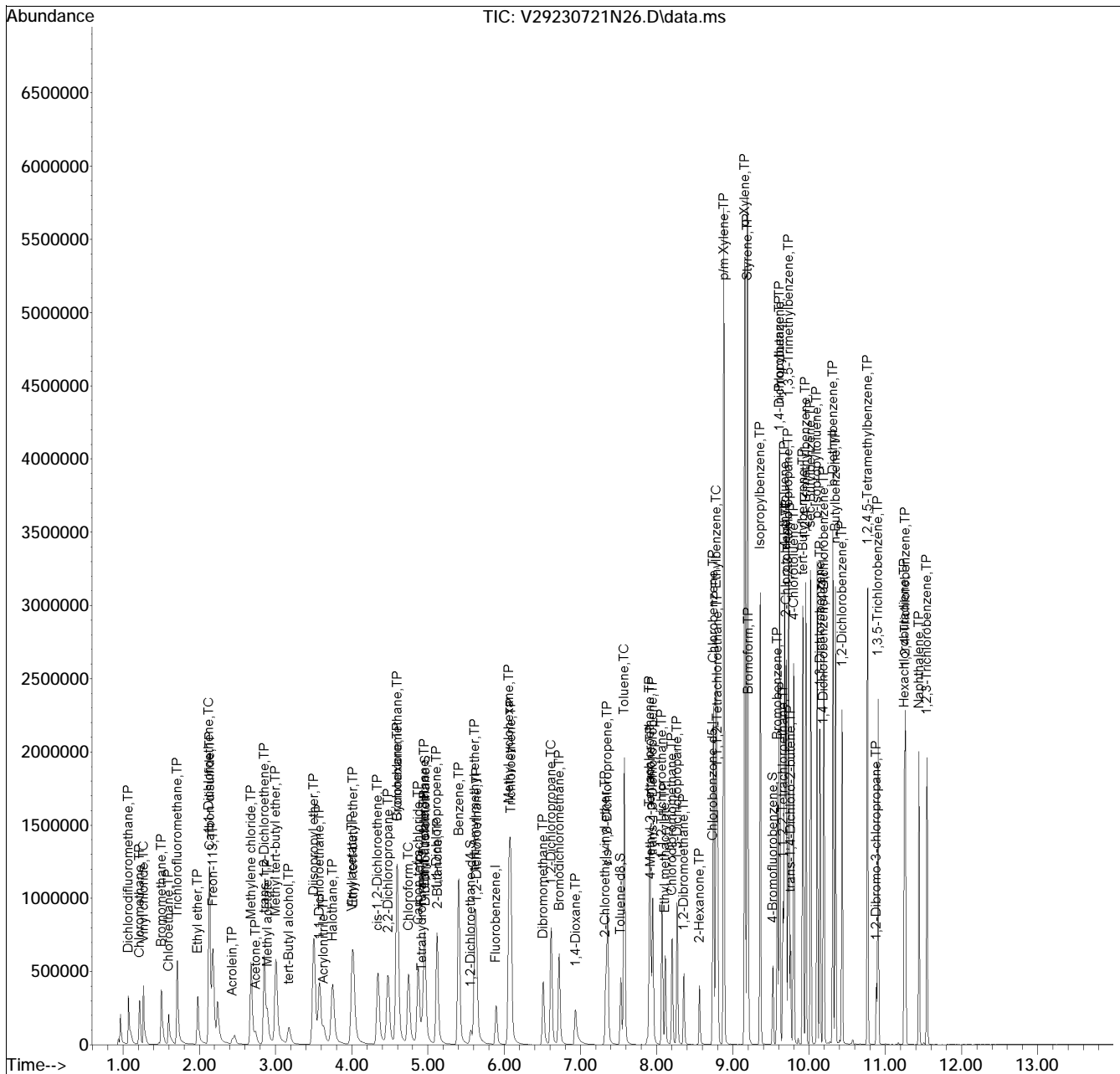
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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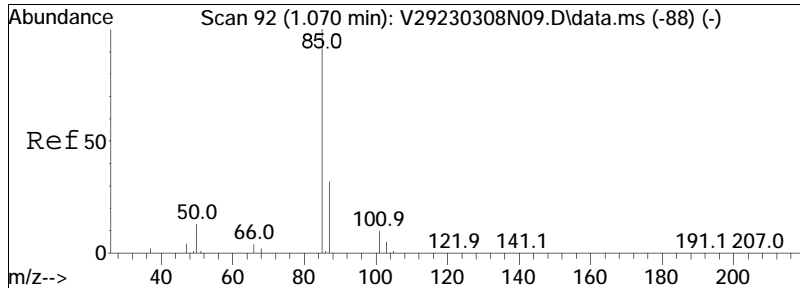
Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N26.D
 Acq On : 22 Jul 2023 03:15 am
 Operator : VOA129:AJK
 Sample : WG1806697-6,31,6.66,5,,b1
 Misc : WG1806697,ICAL19799
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 23 15:30:06 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

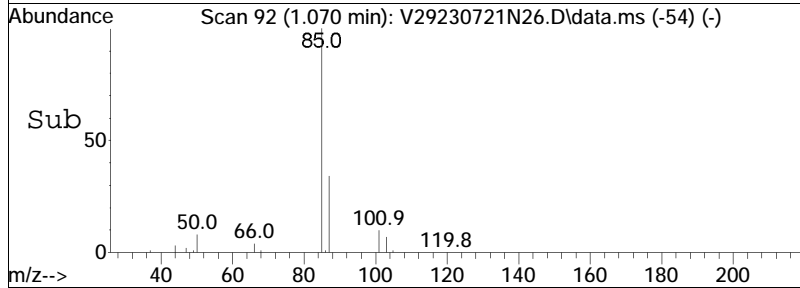
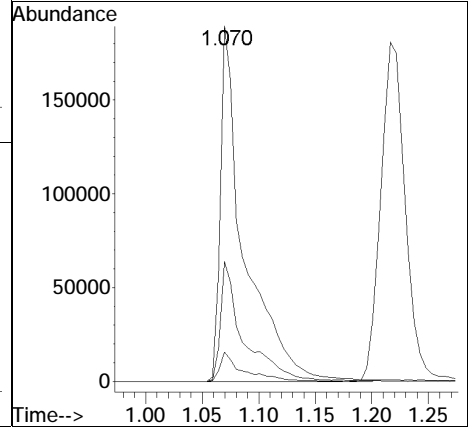
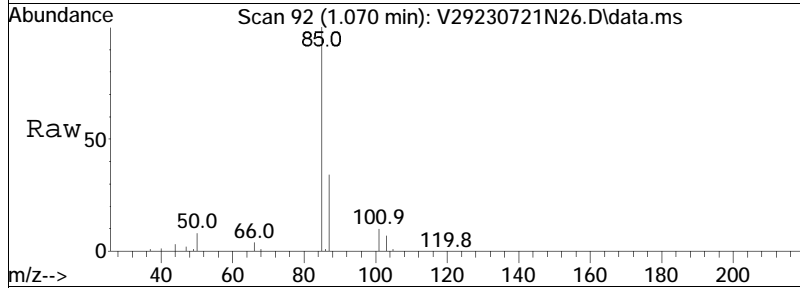
Sub List : 8260-CurveSoil - Megamix plus Diox21N01.D•

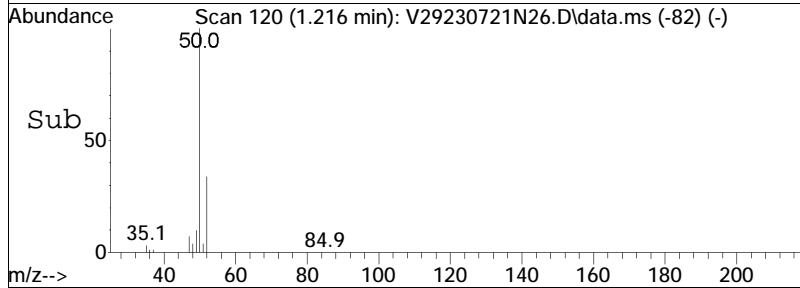
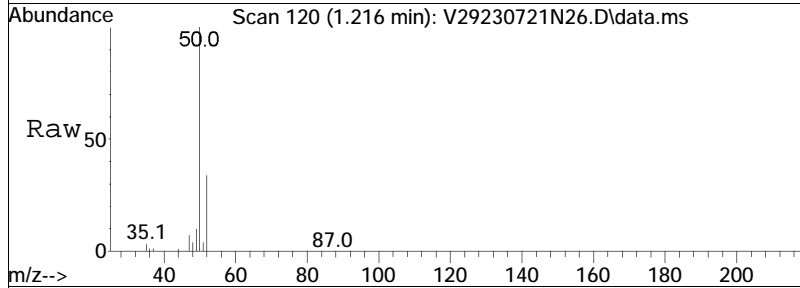
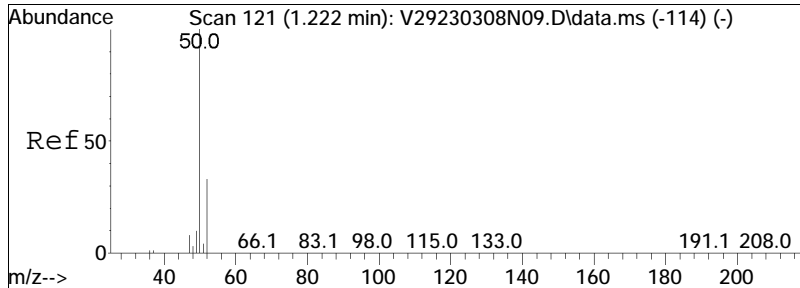




#2
 Dichlorodifluoromethane
 Concen: 104.17 ug/L
 RT: 1.070 min Scan# 92
 Delta R.T. -0.000 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

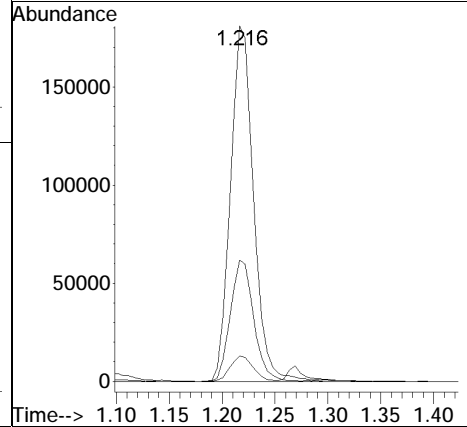
Tgt Ion	Resp	Lower	Upper
85	278710		
87	32.9	21.0	43.6
50	8.1	8.9	18.5#

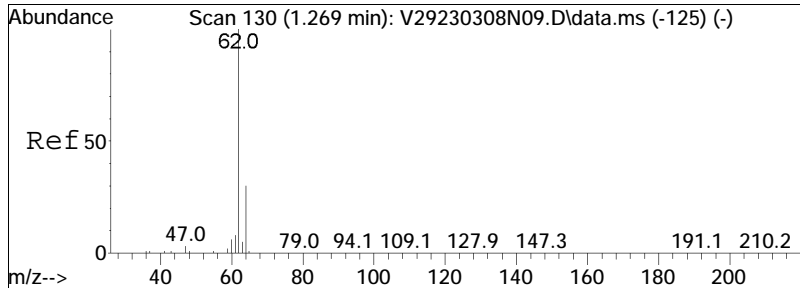




#3
 Chloromethane
 Concen: 72.53 ug/L
 RT: 1.216 min Scan# 120
 Delta R.T. 0.000 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

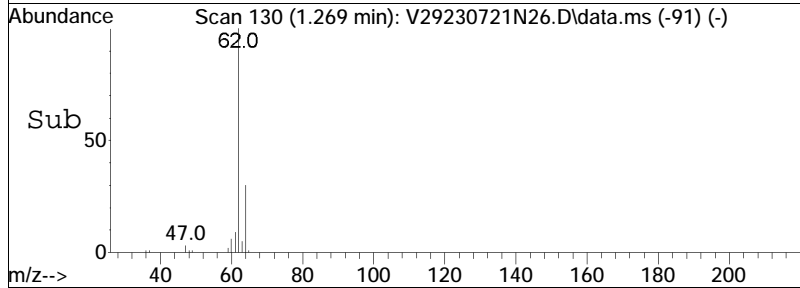
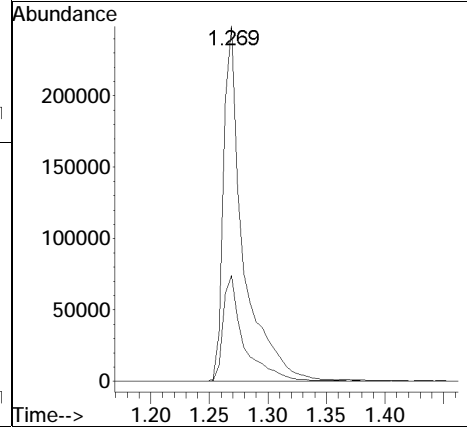
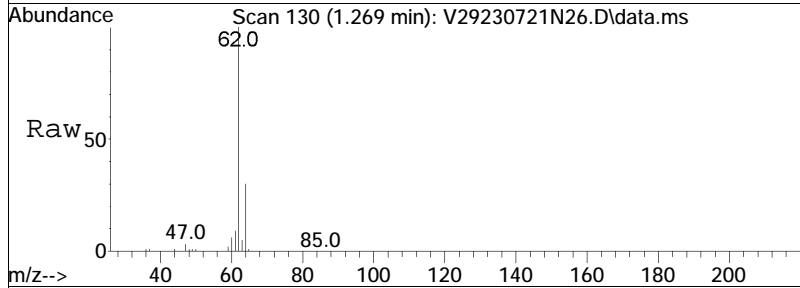
Tgt Ion	Resp	Lower	Upper
50	275676		
50	100		
52	34.3	12.9	52.9
47	7.1	0.0	28.3

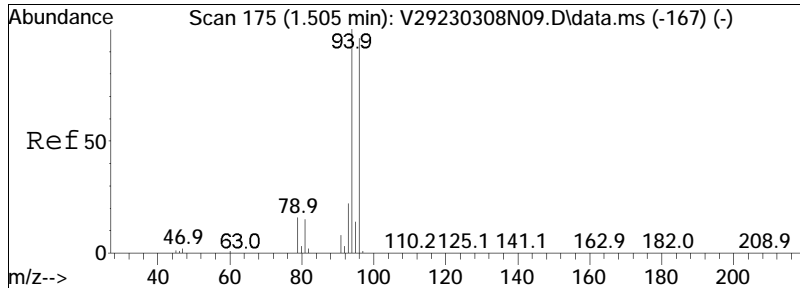




#4
 Vinyl chloride
 Concen: 93.92 ug/L
 RT: 1.269 min Scan# 130
 Delta R.T. 0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

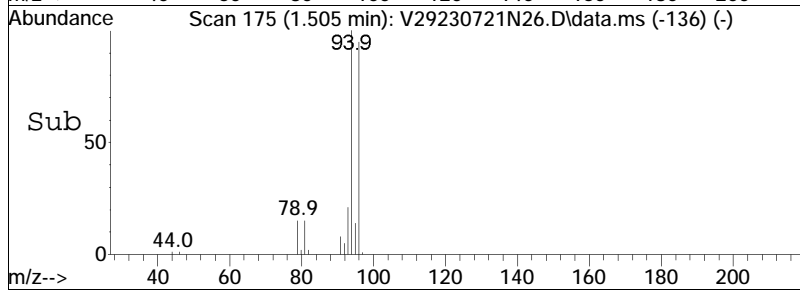
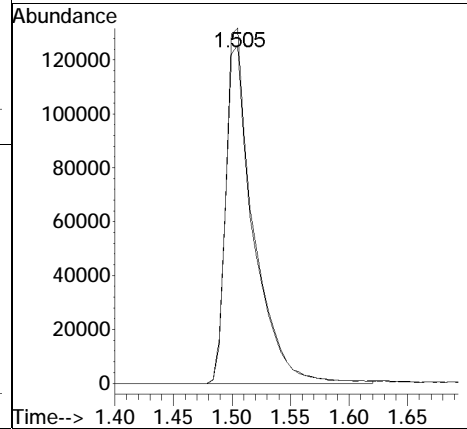
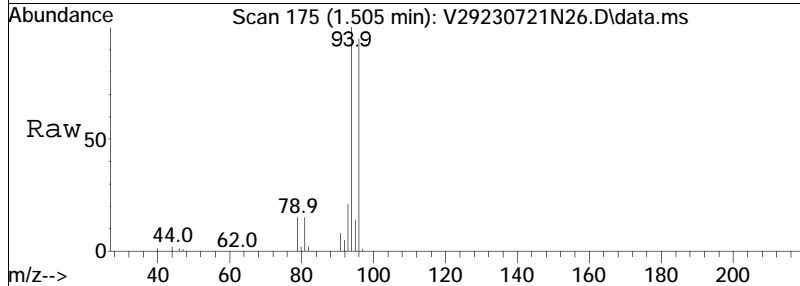
Tgt Ion	Resp	Lower	Upper
62	100		
64	31.2	9.1	49.1

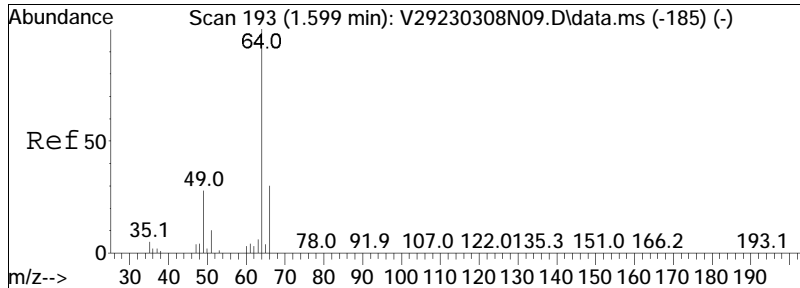




#5
 Bromomethane
 Concen: 132.38 ug/L
 RT: 1.505 min Scan# 175
 Delta R.T. 0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

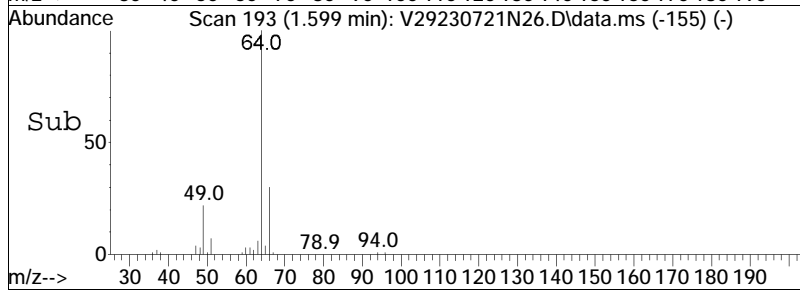
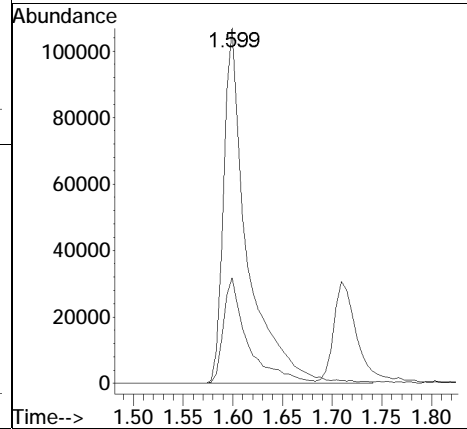
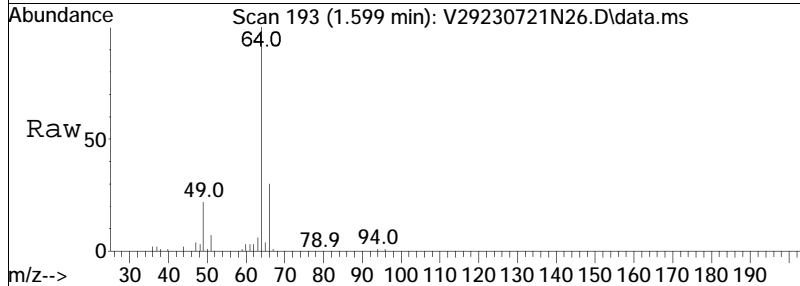
Tgt Ion	Resp	Lower	Upper
94	100		
96	94.9	75.6	115.6

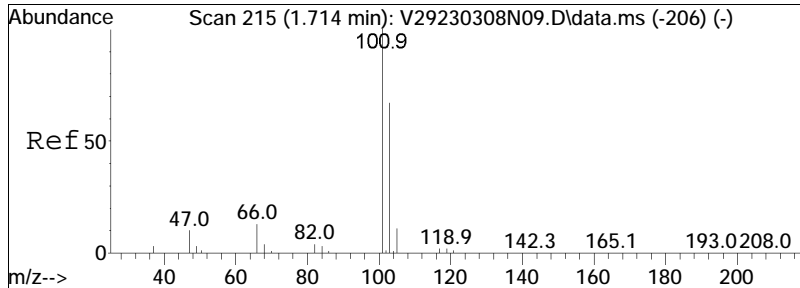




#6
 Chloroethane
 Concen: 100.27 ug/L
 RT: 1.599 min Scan# 193
 Delta R.T. 0.000 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

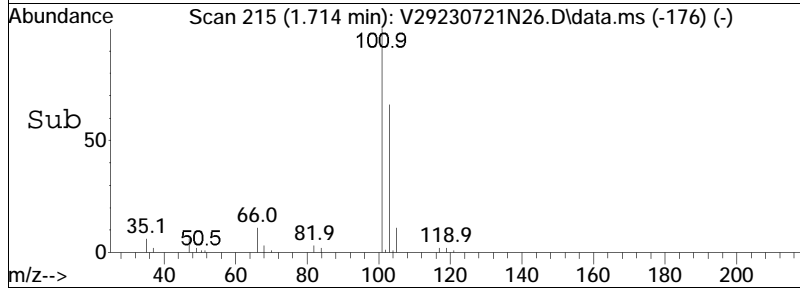
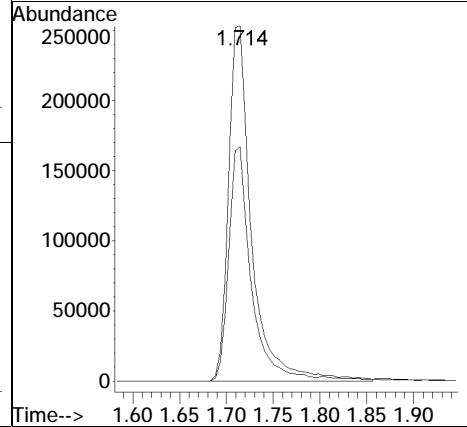
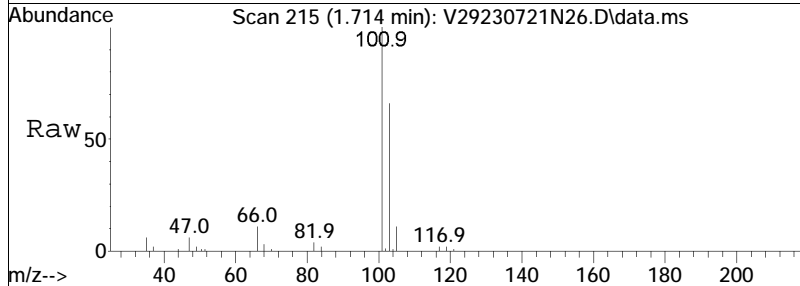
Tgt Ion	Resp	Lower	Upper
64	177343		
66	30.7	9.8	49.8

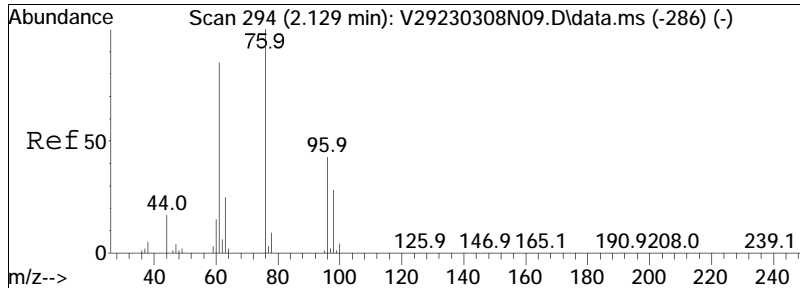




#7
 Trichlorofluoromethane
 Concen: 119.32 ug/L
 RT: 1.714 min Scan# 215
 Delta R.T. 0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

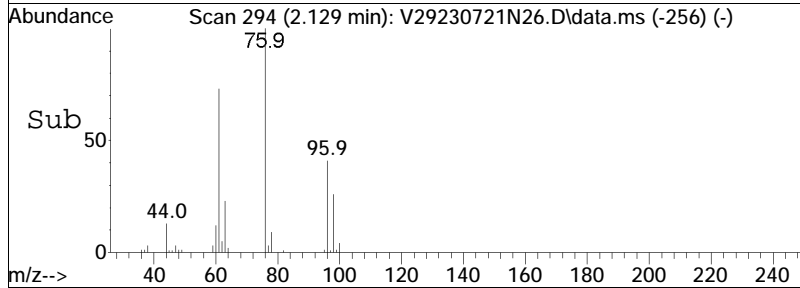
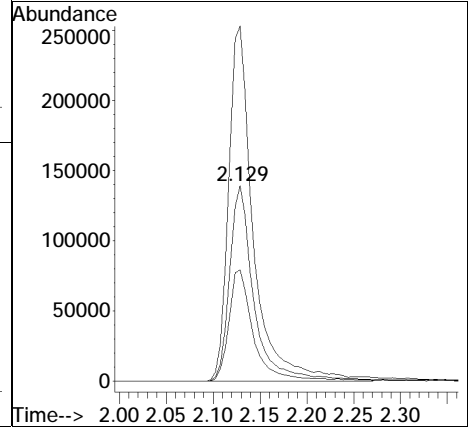
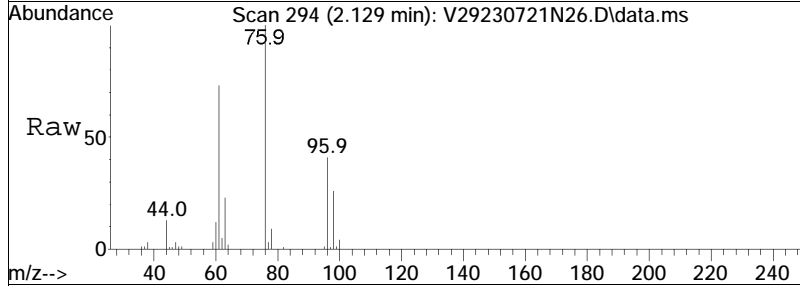
Tgt Ion	Resp	Lower	Upper
101	436979		
101	100		
103	63.4	53.8	80.6

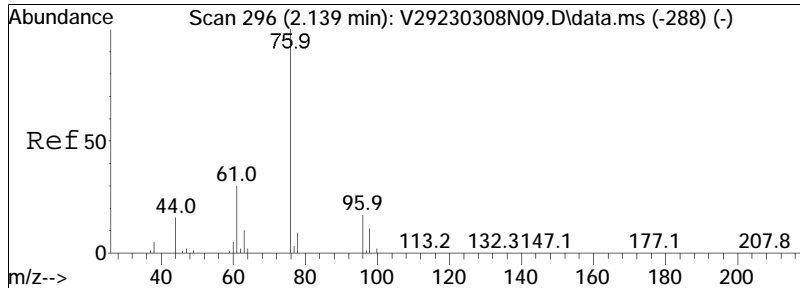




#10
 1,1-Dichloroethene
 Concen: 115.48 ug/L
 RT: 2.129 min Scan# 294
 Delta R.T. -0.000 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

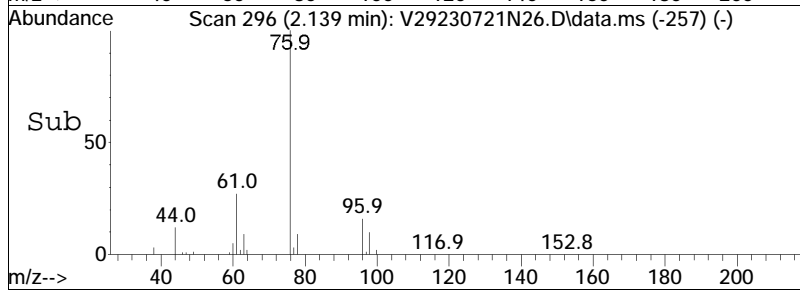
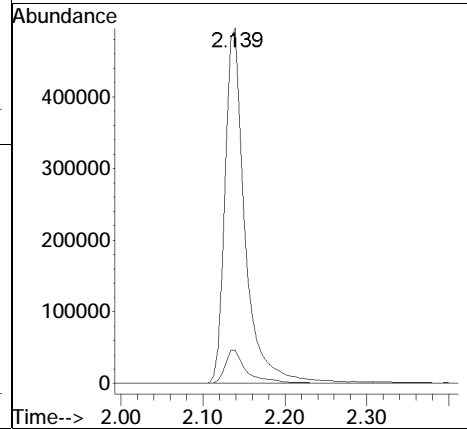
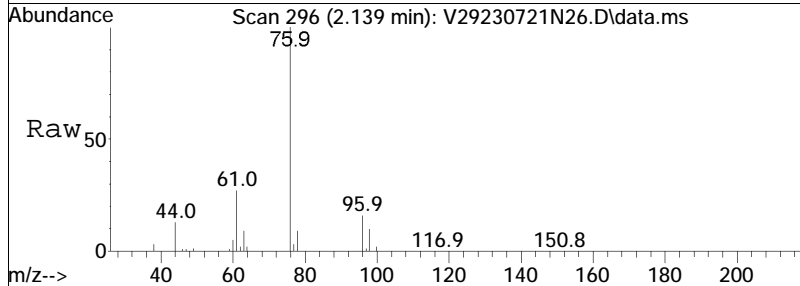
Tgt Ion:	96	Resp:	254464
Ion Ratio	Lower	Upper	
96	100		
61	183.8	186.1	279.1#
63	57.0	57.6	86.4#

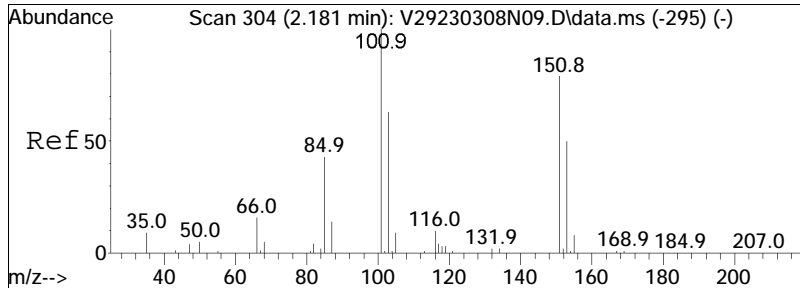




#11
 Carbon disulfide
 Concen: 108.65 ug/L
 RT: 2.139 min Scan# 296
 Delta R.T. 0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

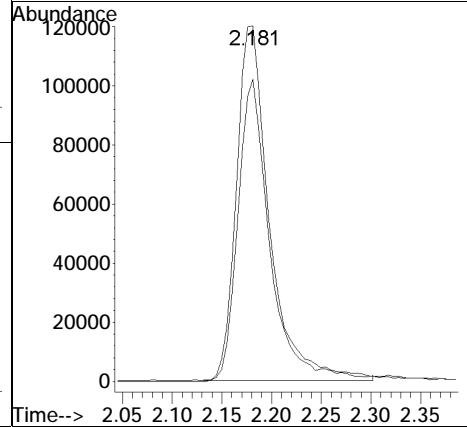
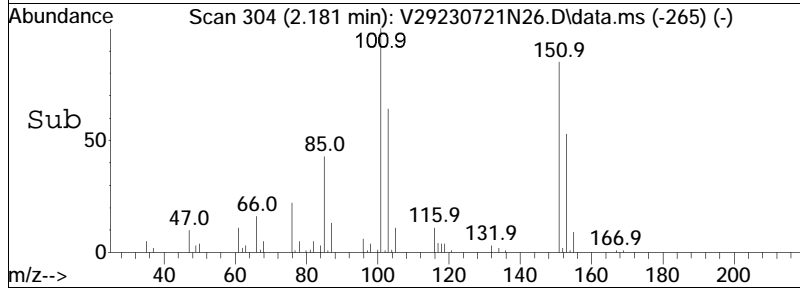
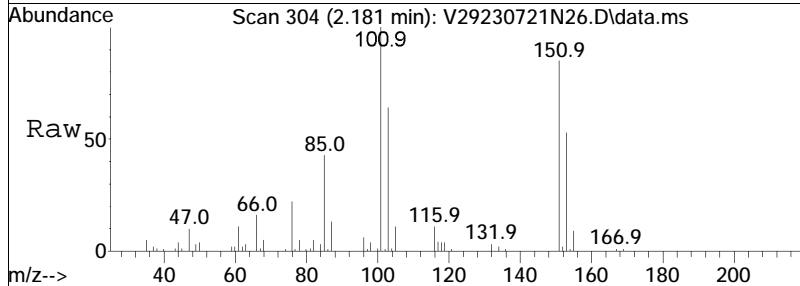
Tgt Ion	Resp	Lower	Upper
76	850779		
76	100		
78	10.1	5.7	11.7

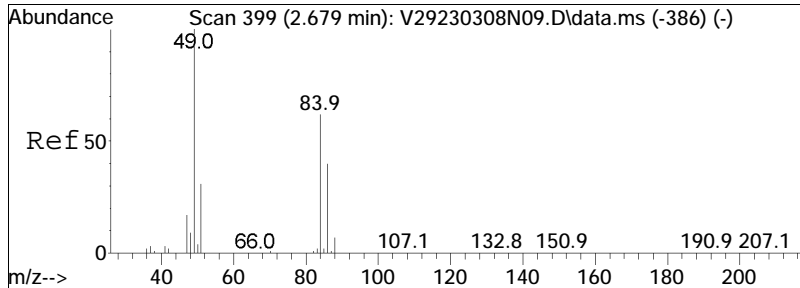




#12
 Freon-113
 Concen: 115.06 ug/L
 RT: 2.181 min Scan# 304
 Delta R.T. 0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

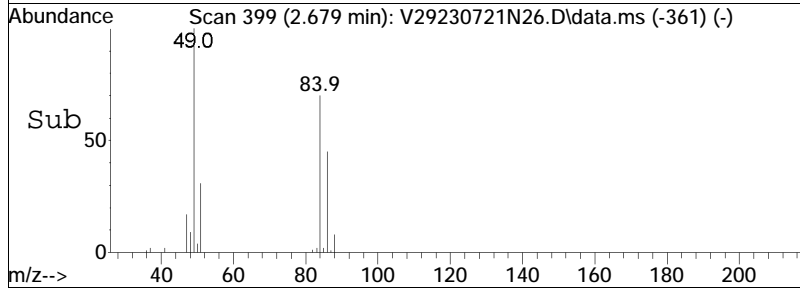
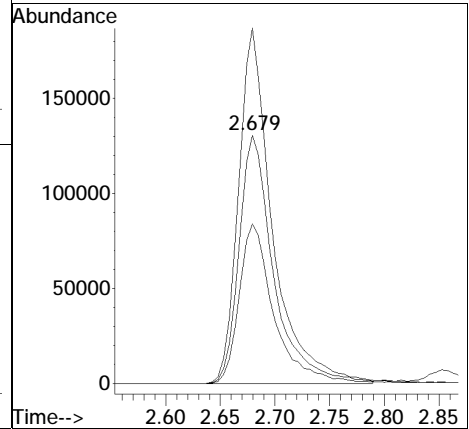
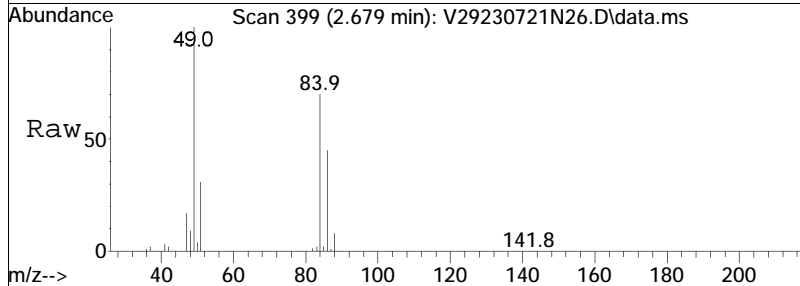
Tgt Ion	Resp	Lower	Upper
101	279079		
101	100		
151	82.4	59.8	89.8

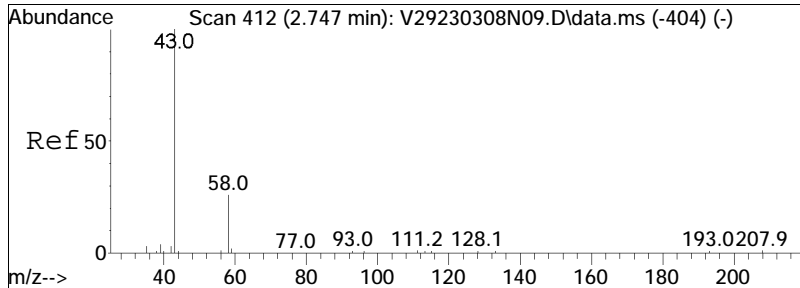




#15
 Methylene chloride
 Concen: 100.40 ug/L
 RT: 2.679 min Scan# 399
 Delta R.T. 0.000 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

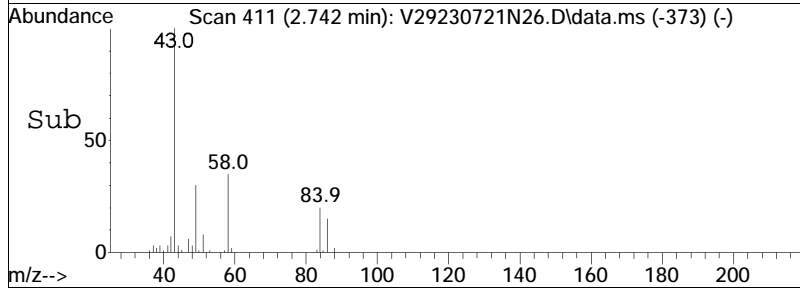
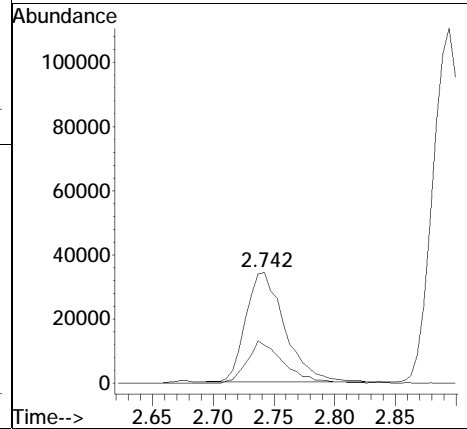
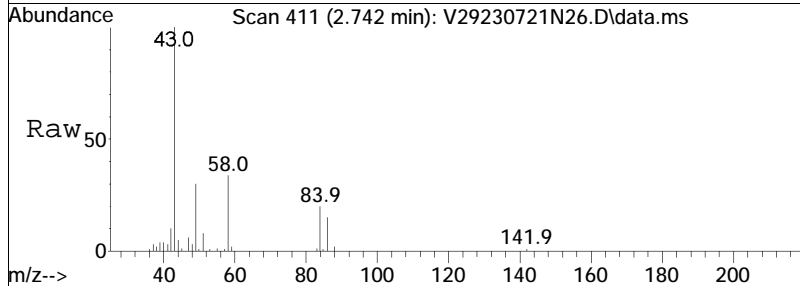
Tgt Ion:	84	Resp:	287803
Ion Ratio	Lower	Upper	
84	100		
86	64.9	40.4	83.8
49	140.8	120.0	249.2

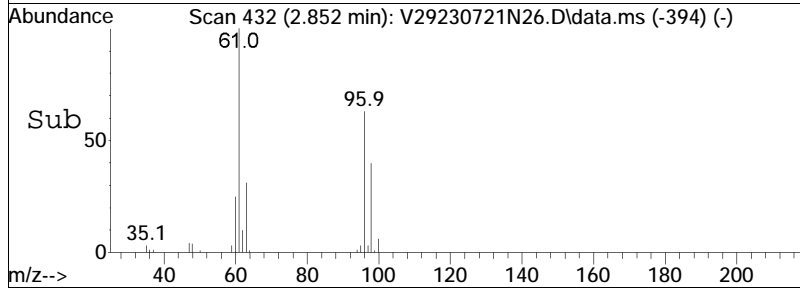
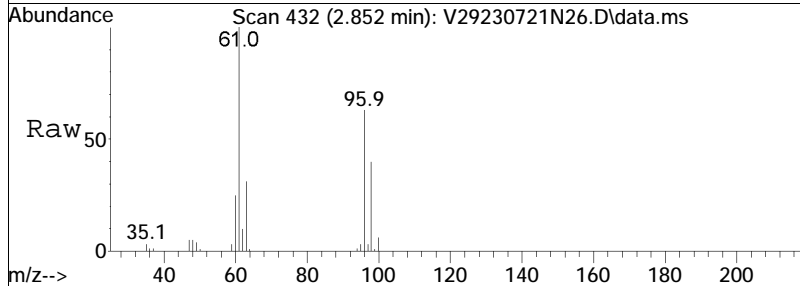
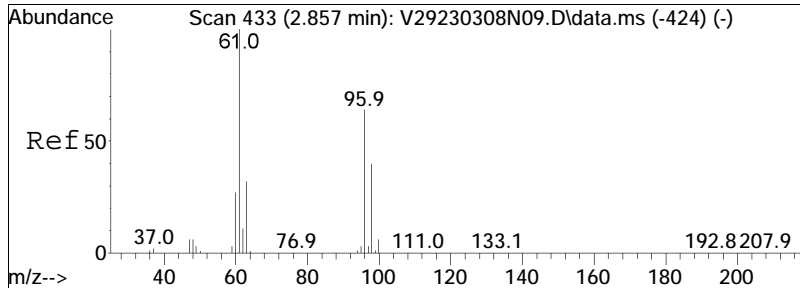




#17
 Acetone
 Concen: 100.15 ug/L
 RT: 2.742 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

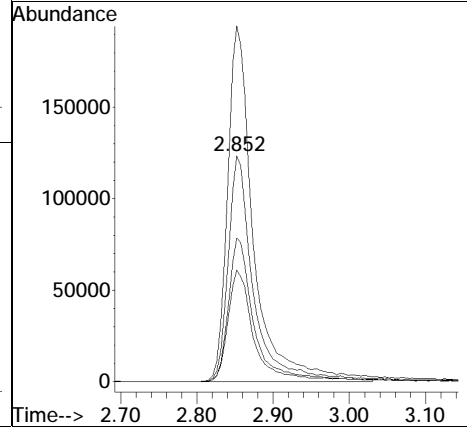
Tgt Ion	Resp	Lower	Upper
43	100		
58	36.8	24.2	36.4#

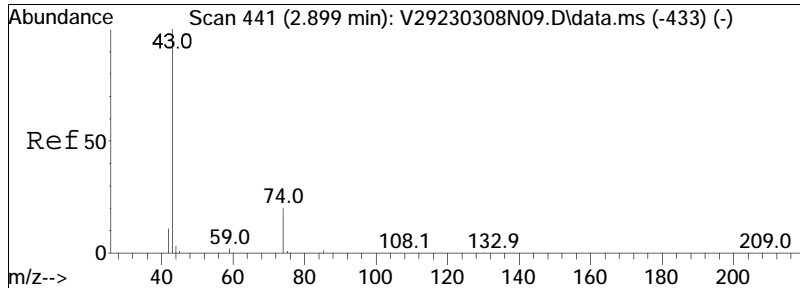




#18
 trans-1,2-Dichloroethene
 Concen: 107.04 ug/L
 RT: 2.852 min Scan# 432
 Delta R.T. 0.000 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

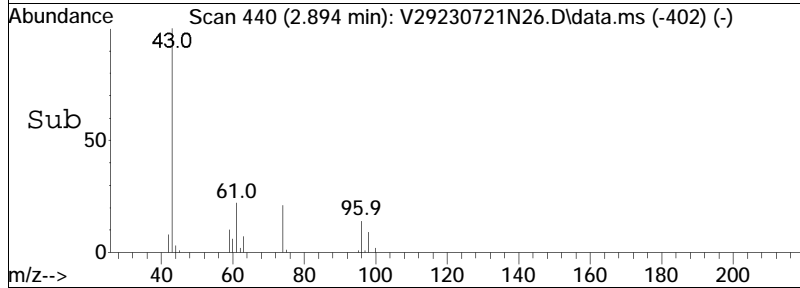
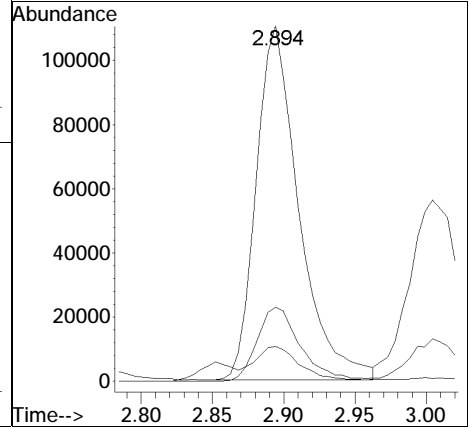
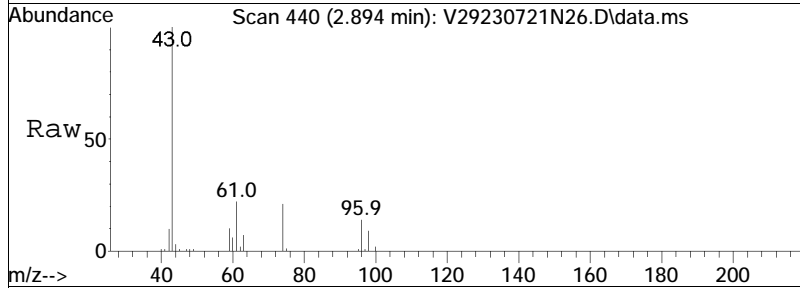
Tgt Ion	Resp	Lower	Upper
96	288201		
96	100		
61	161.1	124.0	257.6
98	64.0	41.2	85.6
63	48.7	38.4	79.7

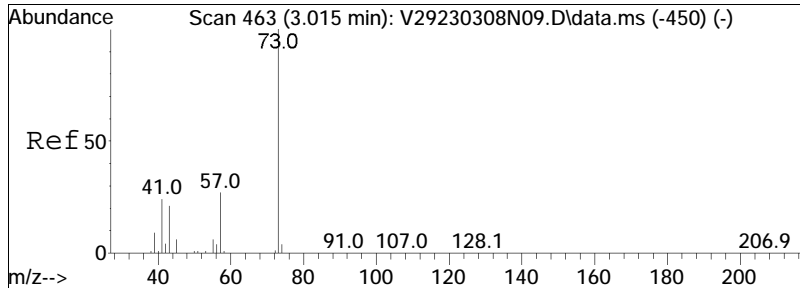




#19
 Methyl acetate
 Concen: 113.42 ug/L
 RT: 2.894 min Scan# 440
 Delta R.T. 0.000 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

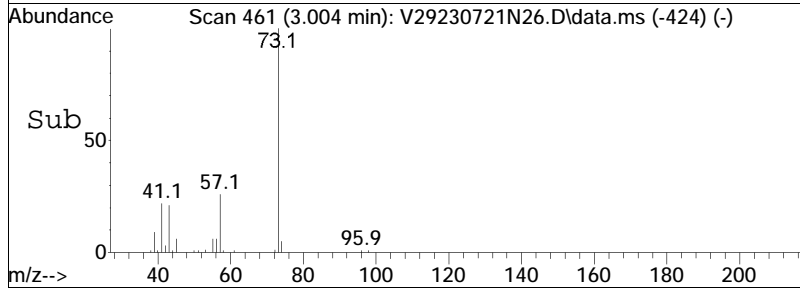
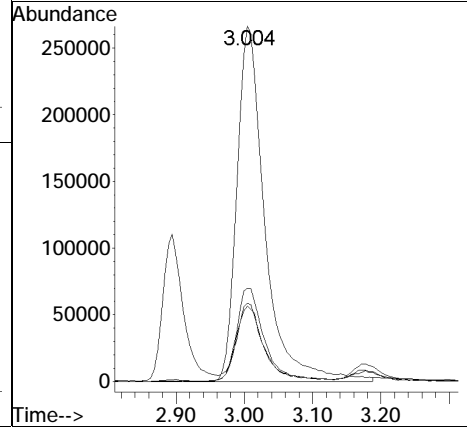
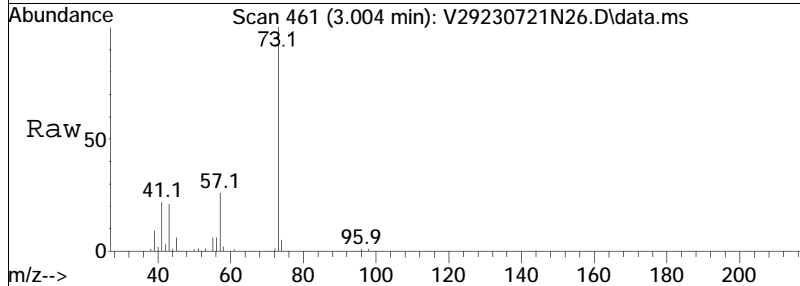
Tgt Ion	Resp	Lower	Upper
43	230615		
43	100		
74	21.4	14.2	21.4
59	10.6	5.0	7.6#

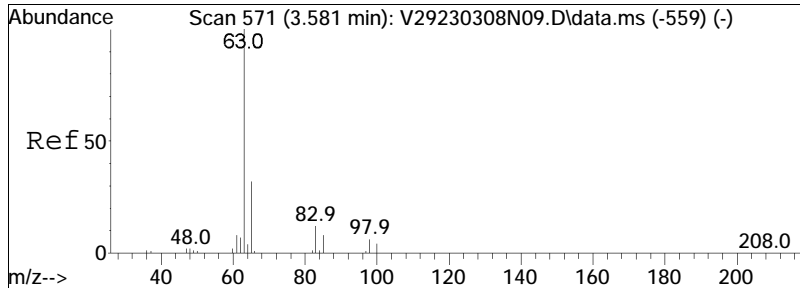




#20
 Methyl tert-butyl ether
 Concen: 112.52 ug/L
 RT: 3.004 min Scan# 461
 Delta R.T. -0.006 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

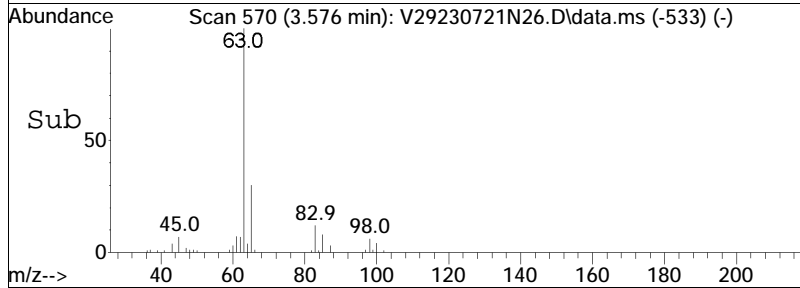
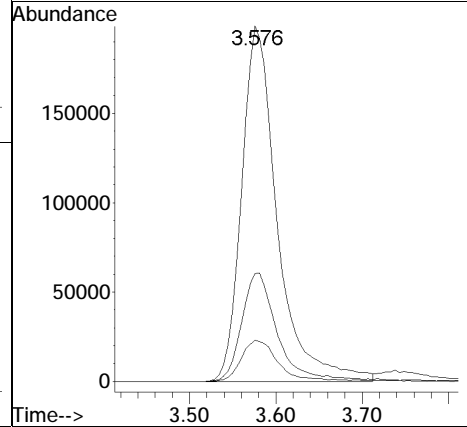
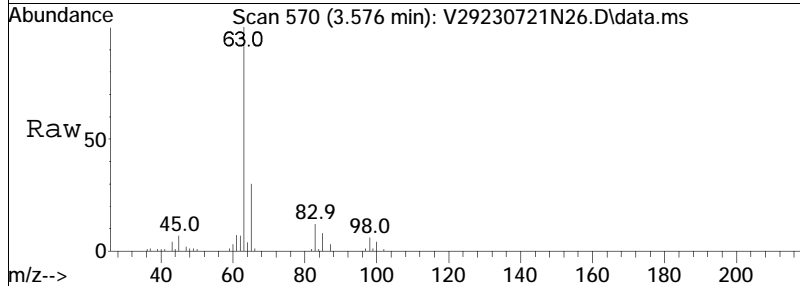
Tgt Ion	Resp	Lower	Upper
73	759339		
57	26.2	17.5	36.3
43	19.9	15.3	31.9
41	21.2	15.3	31.7

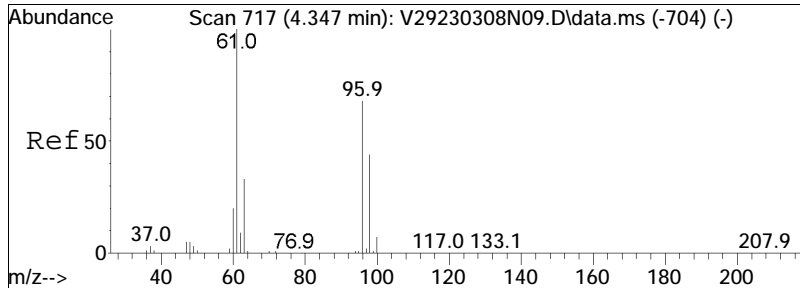




#23
 1,1-Dichloroethane
 Concen: 110.03 ug/L
 RT: 3.576 min Scan# 570
 Delta R.T. -0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

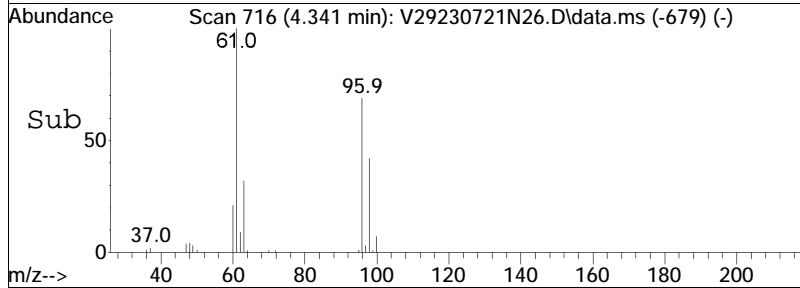
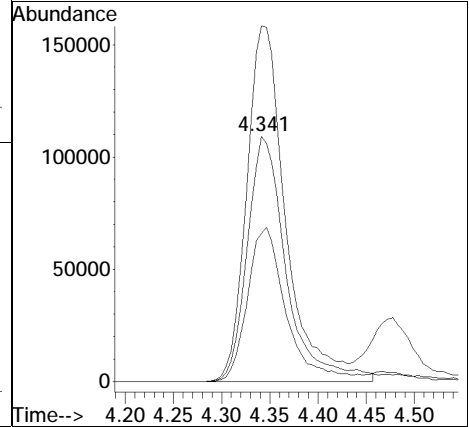
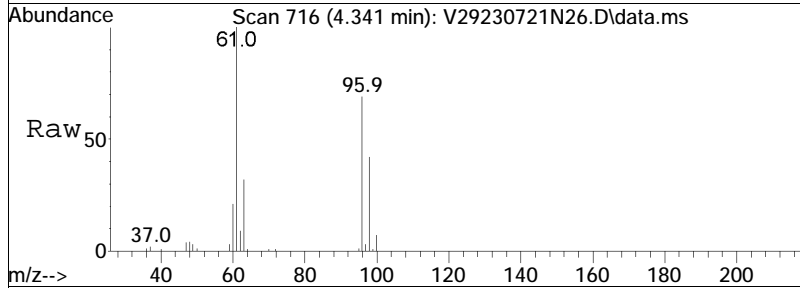
Tgt Ion	Resp	Lower	Upper
63	100		
65	30.4	11.0	51.0
83	12.0	0.0	31.8

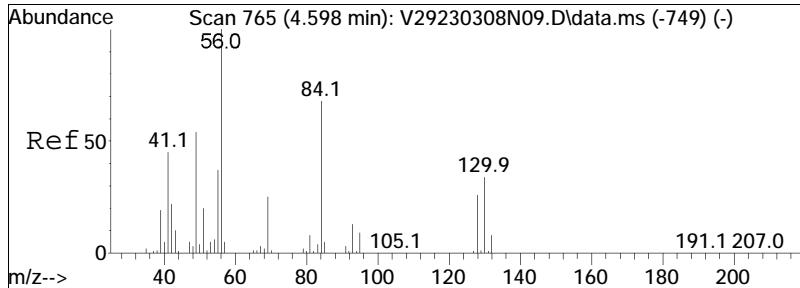




#28
 cis-1,2-Dichloroethene
 Concen: 102.35 ug/L
 RT: 4.341 min Scan# 716
 Delta R.T. -0.006 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

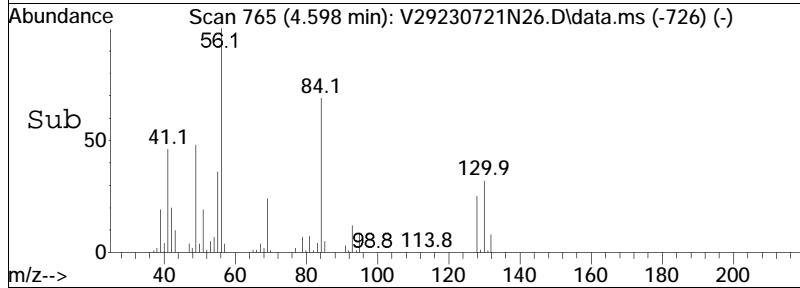
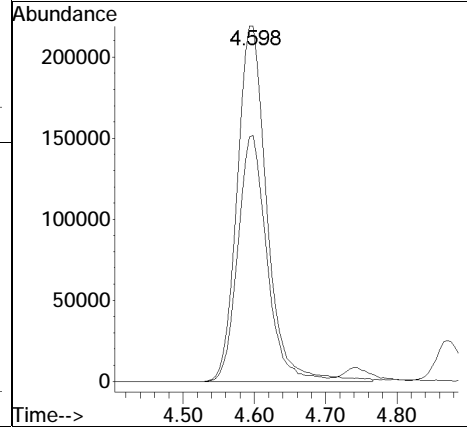
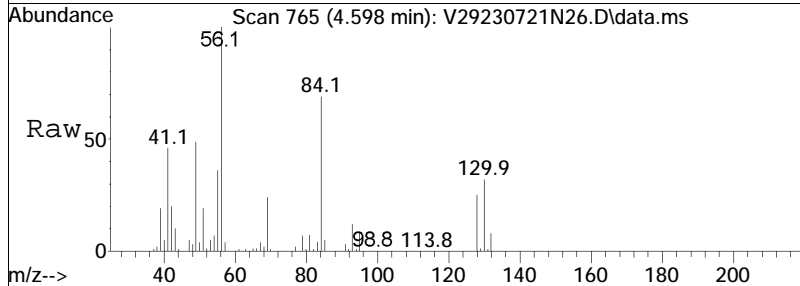
Tgt Ion	Resp	Lower	Upper
96	307474		
Ion Ratio			
96	100		
61	143.6	149.4	224.2#
98	61.8	53.4	80.2

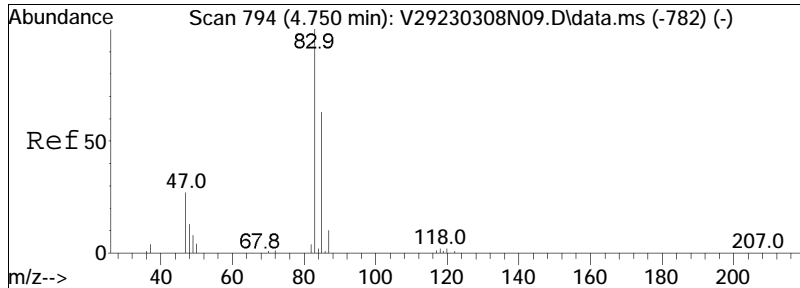




#31
 Cyclohexane
 Concen: 111.56 ug/L
 RT: 4.598 min Scan# 765
 Delta R.T. 0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

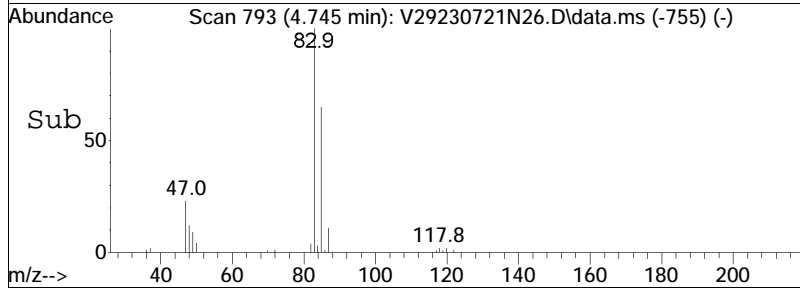
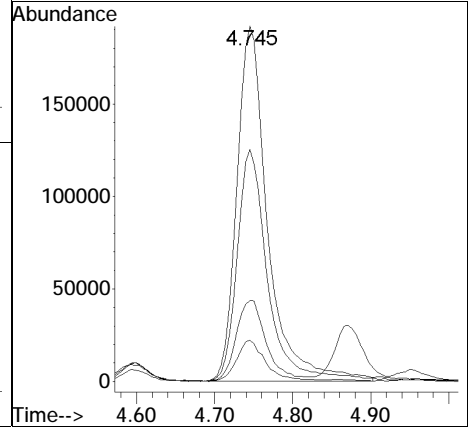
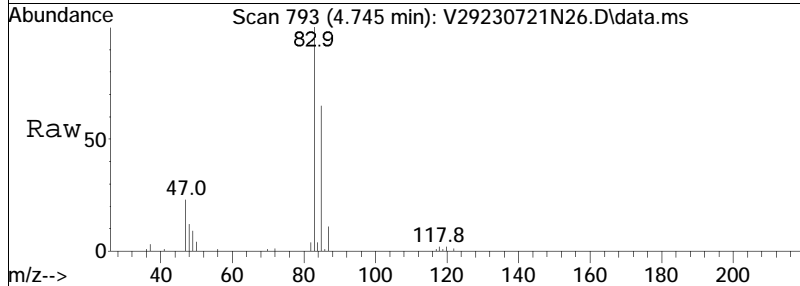
Tgt Ion:	56	Resp:	634723
Ion Ratio	Lower	Upper	
56	100		
84	67.6	38.4	79.8

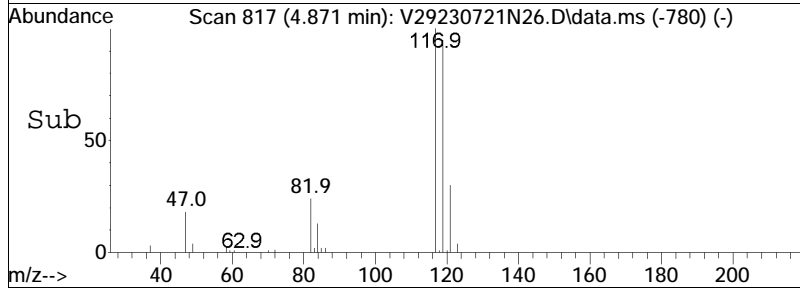
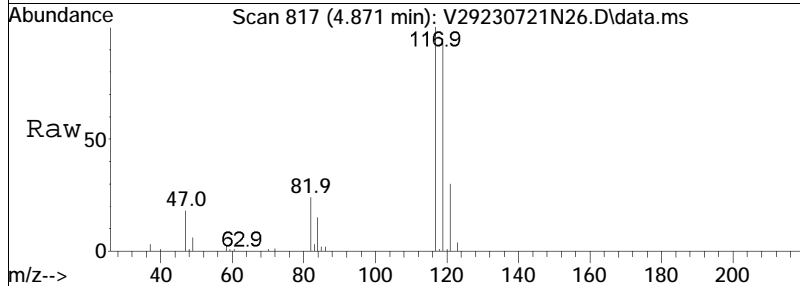
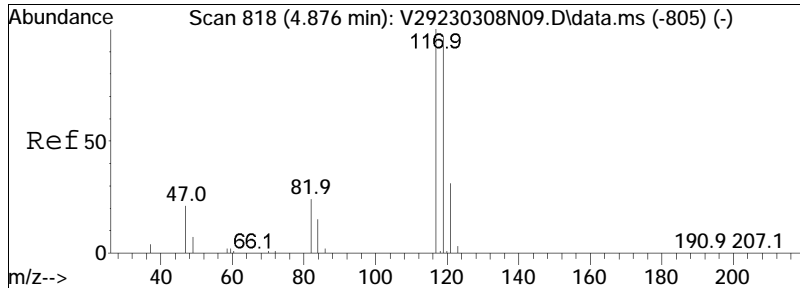




#32
 Chloroform
 Concen: 109.92 ug/L
 RT: 4.745 min Scan# 793
 Delta R.T. 0.000 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

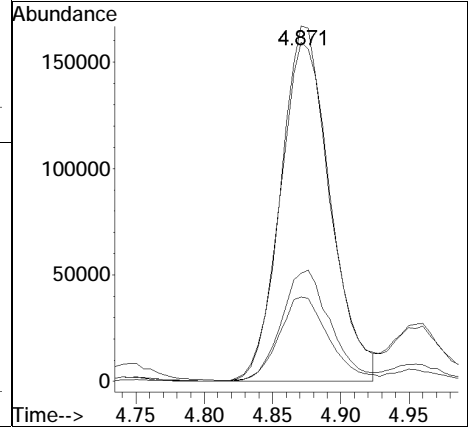
Tgt Ion	Resp	Lower	Upper
83	527509		
83	100		
85	64.7	41.5	86.1
47	22.7	19.0	39.4
48	11.2	9.9	20.5

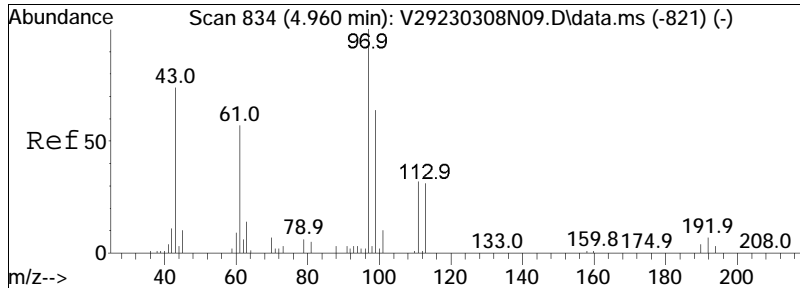




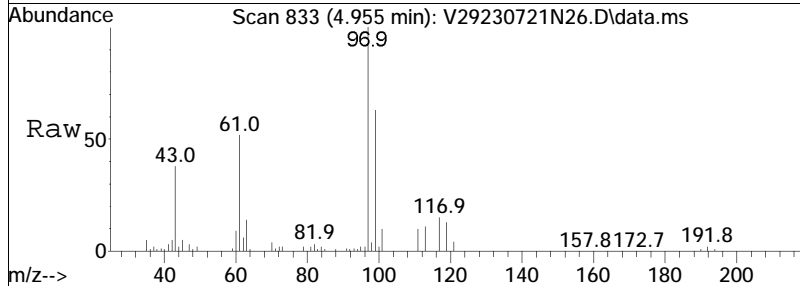
#34
 Carbon tetrachloride
 Concen: 111.03 ug/L
 RT: 4.871 min Scan# 817
 Delta R.T. -0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.6	62.4	129.6
121	30.9	19.5	40.5
82	23.7	17.0	35.4

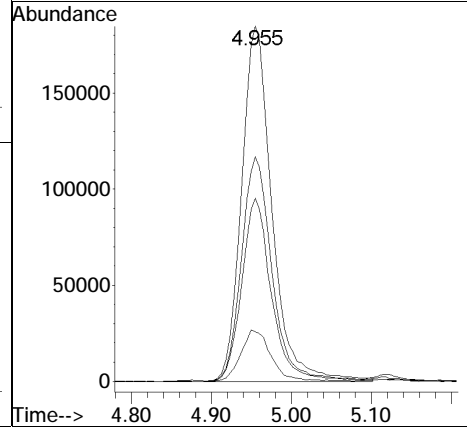
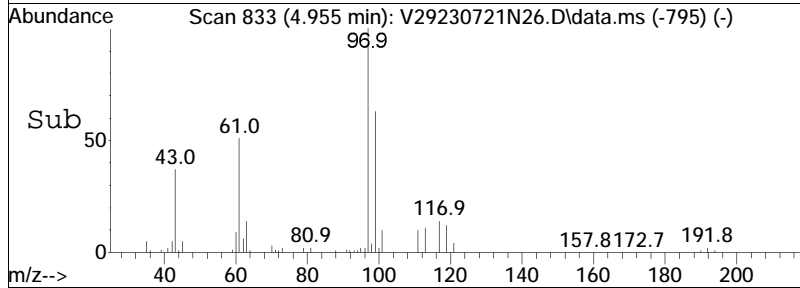


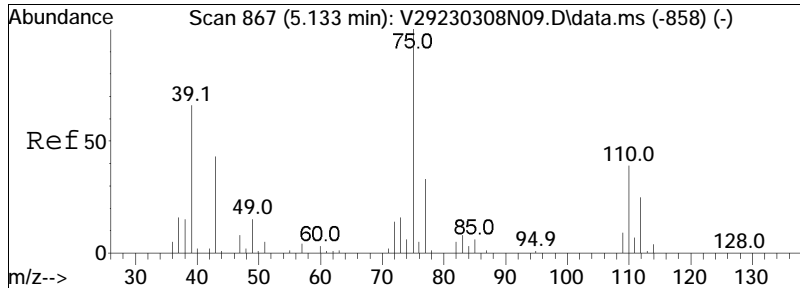


#37
 1,1,1-Trichloroethane
 Concen: 121.53 ug/L
 RT: 4.955 min Scan# 833
 Delta R.T. -0.000 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am



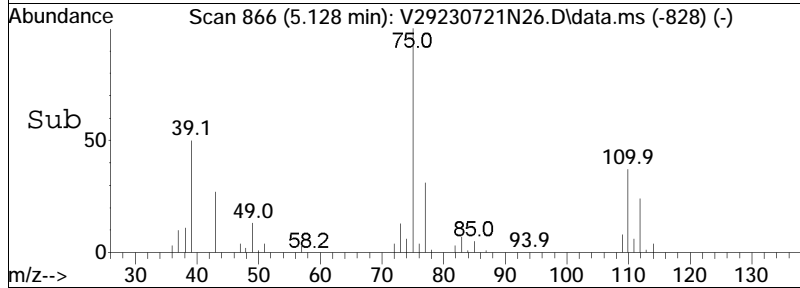
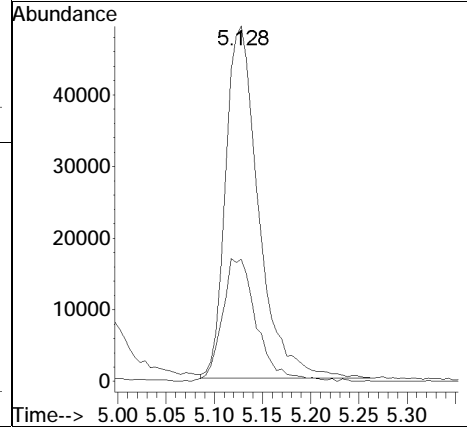
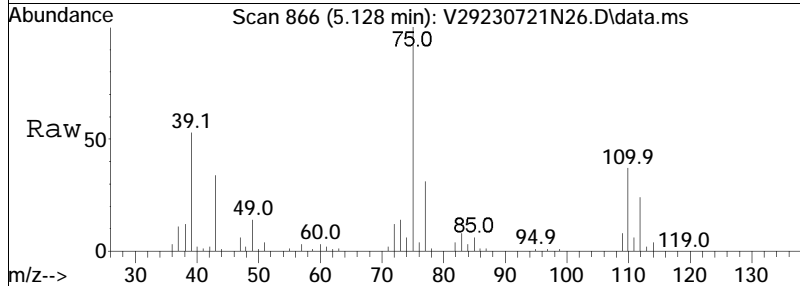
Tgt Ion	Resp	Lower	Upper
97	489378		
97	100		
99	63.9	40.7	84.5
61	50.5	35.4	73.4
63	14.0	5.0	10.4#

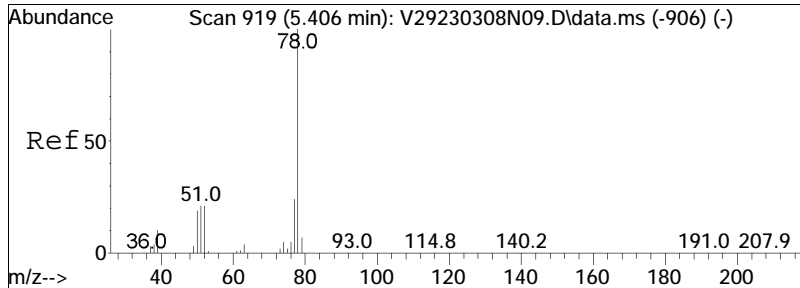




#39
 2-Butanone
 Concen: 64.53 ug/L
 RT: 5.128 min Scan# 866
 Delta R.T. -0.000 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

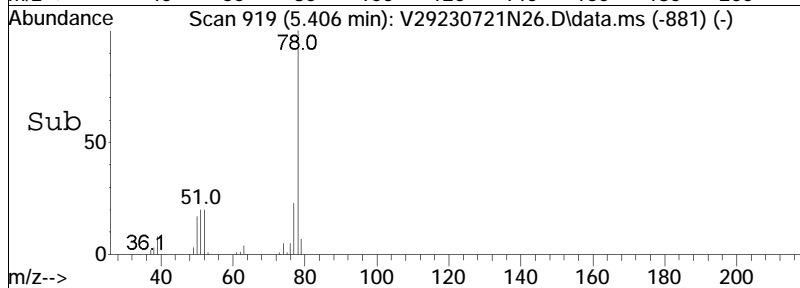
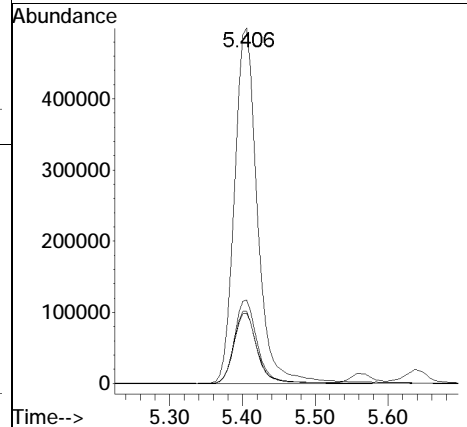
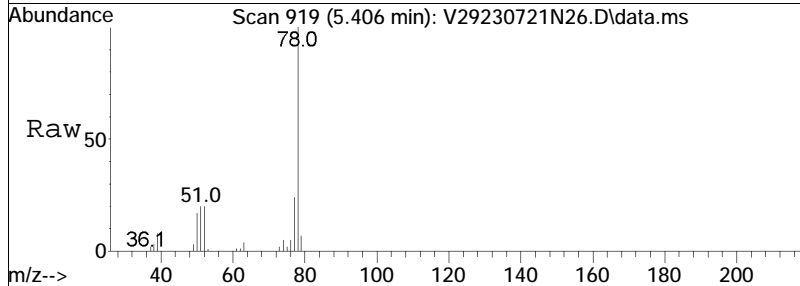
Tgt Ion: 43 Resp: 117183
 Ion Ratio Lower Upper
 43 100
 72 36.5 10.9 16.3#

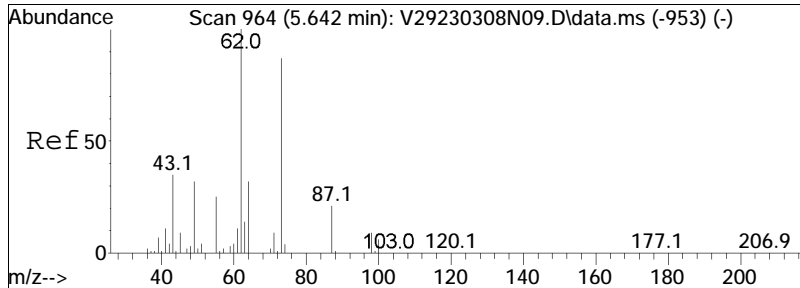




#41
 Benzene
 Concen: 106.63 ug/L
 RT: 5.406 min Scan# 919
 Delta R.T. -0.000 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

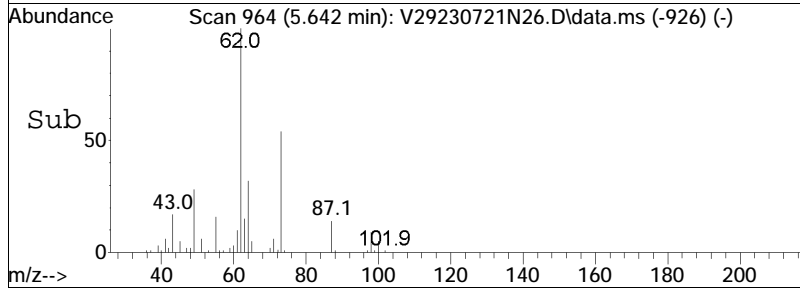
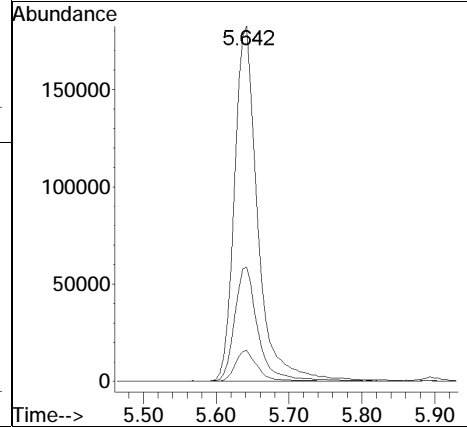
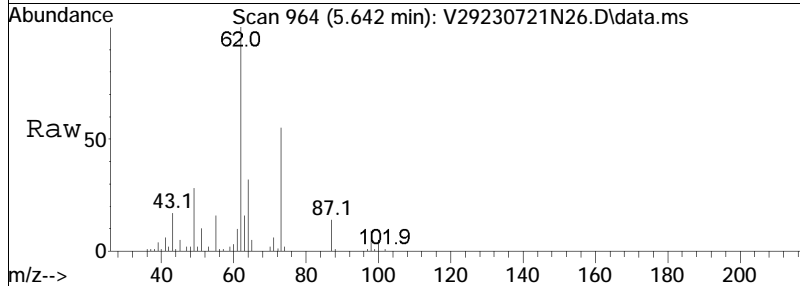
Tgt Ion	Resp	Lower	Upper
78	1096529		
77	23.5	15.7	32.7
51	20.0	16.0	33.2
52	20.4	15.3	31.9

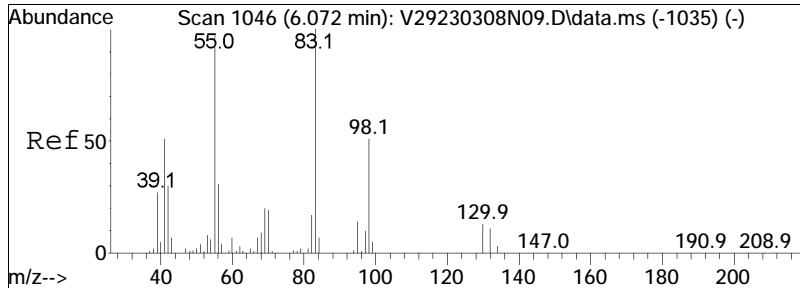




#44
 1,2-Dichloroethane
 Concen: 103.12 ug/L
 RT: 5.642 min Scan# 964
 Delta R.T. -0.000 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

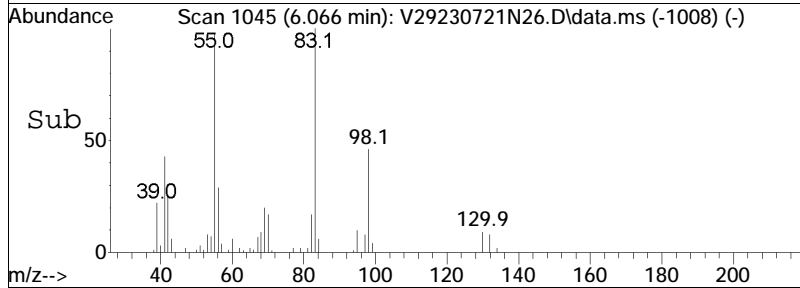
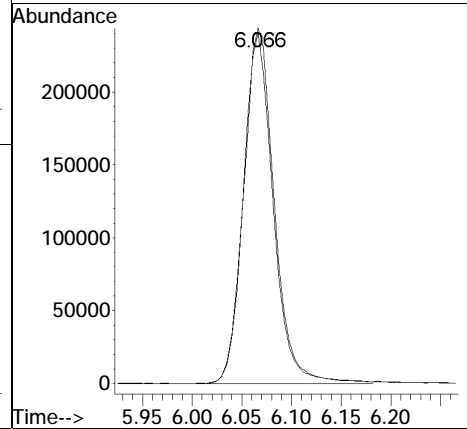
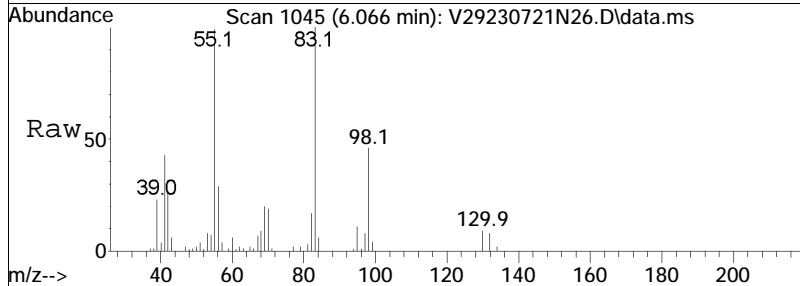
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
62	100		
64	31.5	11.2	51.2
98	8.3	0.0	26.1

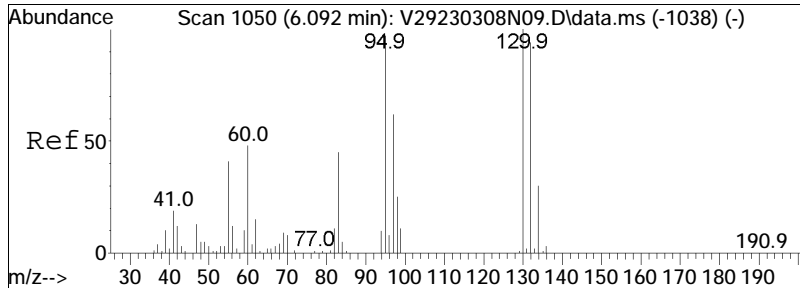




#47
 Methyl cyclohexane
 Concen: 107.25 ug/L
 RT: 6.066 min Scan# 1045
 Delta R.T. -0.006 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

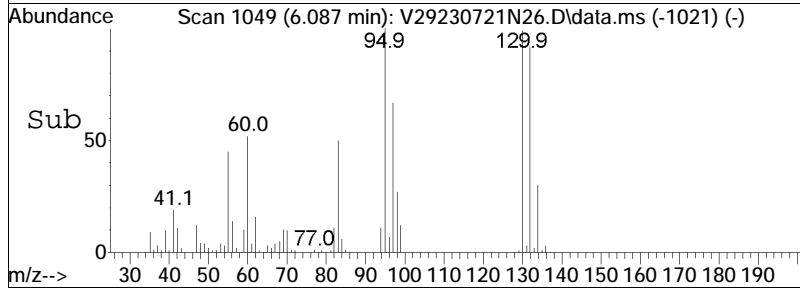
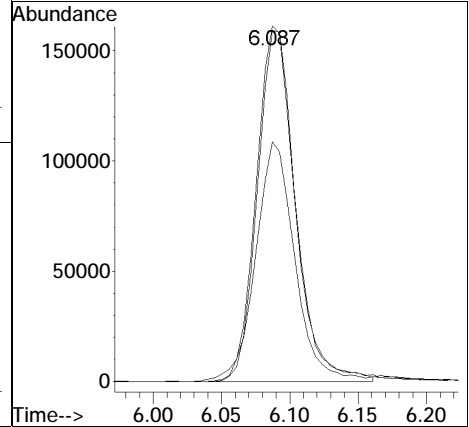
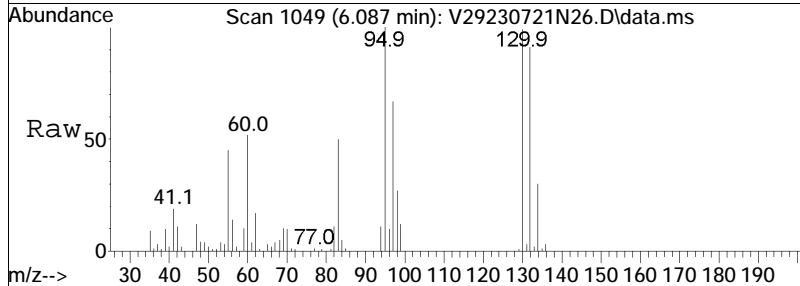
Tgt Ion	Resp	Lower	Upper
83	100		
55	97.5	88.3	132.5

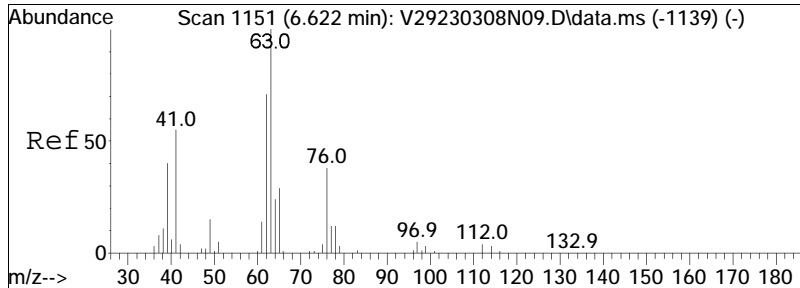




#48
 Trichloroethene
 Concen: 108.56 ug/L
 RT: 6.087 min Scan# 1049
 Delta R.T. -0.006 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

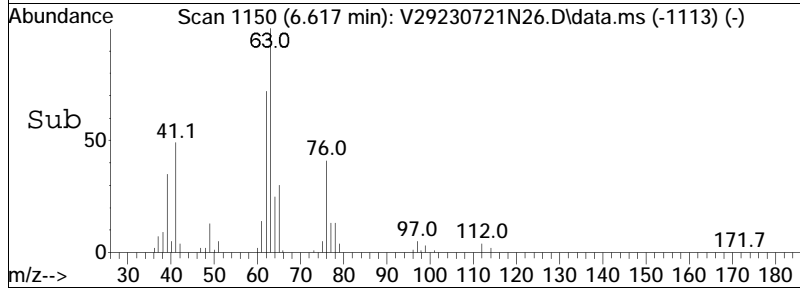
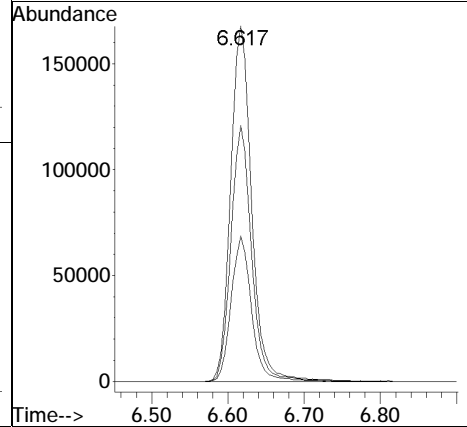
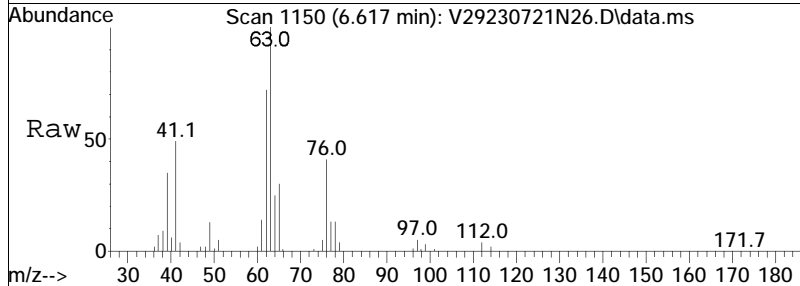
Tgt Ion:	95	Resp:	317904
Ion Ratio	Lower	Upper	
95	100		
97	69.3	55.5	83.3
130	99.2	76.6	115.0

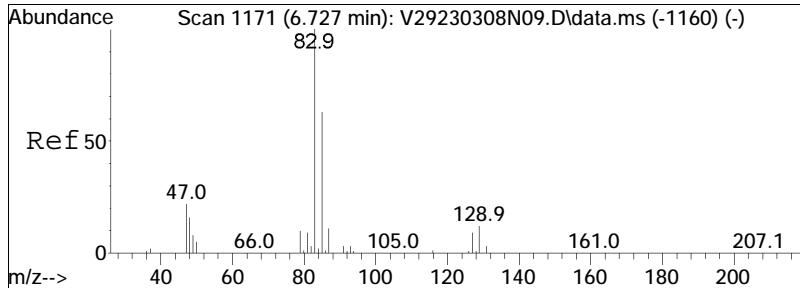




#51
 1,2-Dichloropropane
 Concen: 97.25 ug/L
 RT: 6.617 min Scan# 1150
 Delta R.T. -0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

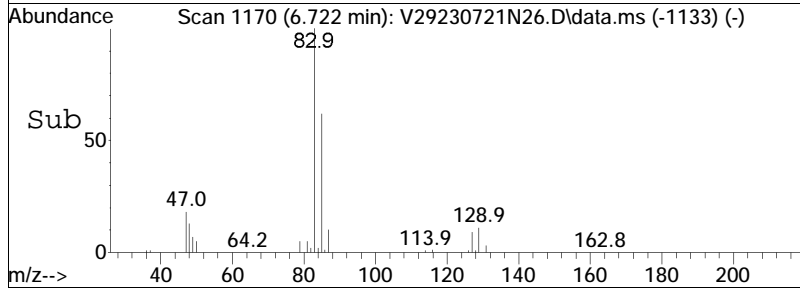
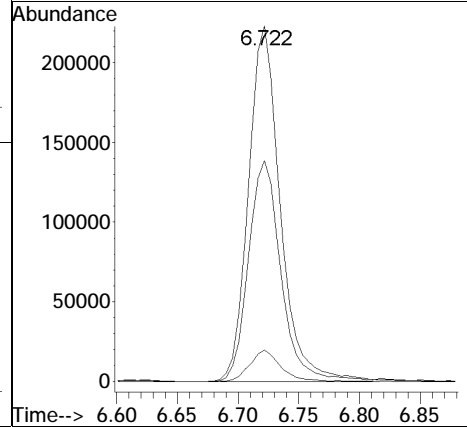
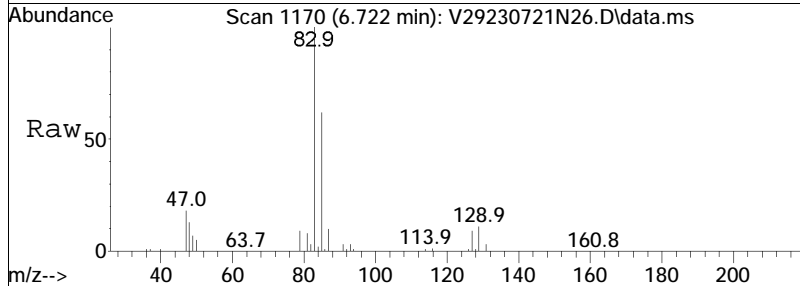
Tgt Ion	Resp	Lower	Upper
63	100		
62	70.0	58.6	87.8
76	39.6	38.0	57.0

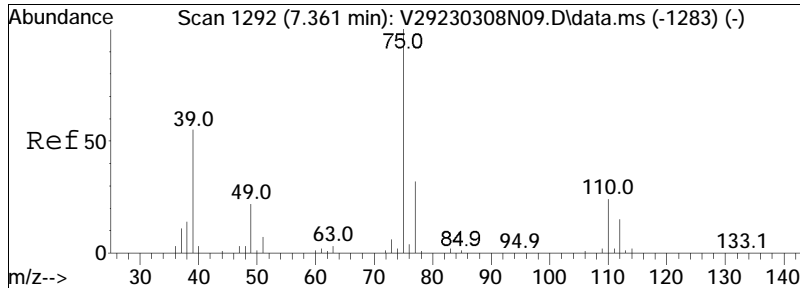




#54
 Bromodichloromethane
 Concen: 106.06 ug/L
 RT: 6.722 min Scan# 1170
 Delta R.T. -0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

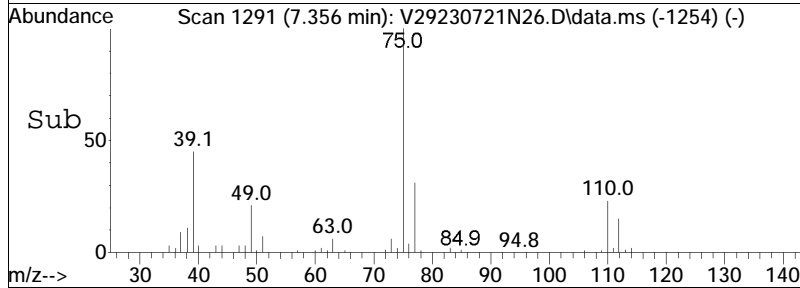
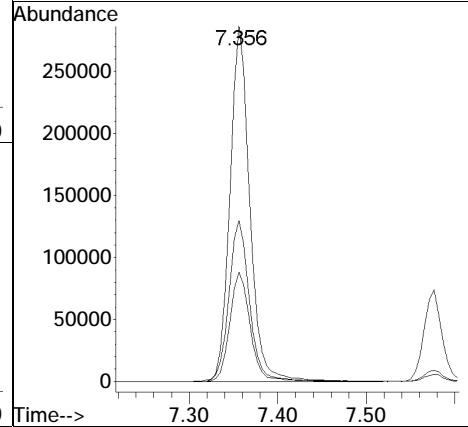
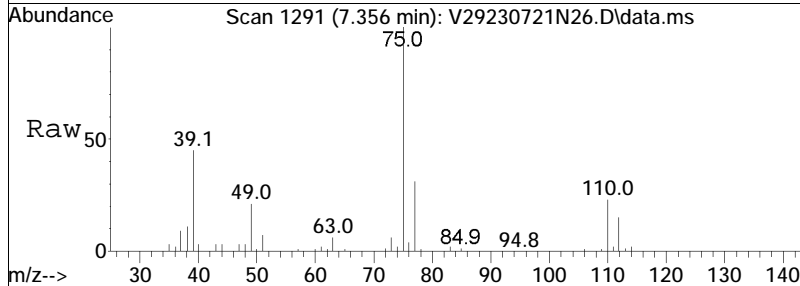
Tgt Ion	Resp	Lower	Upper
83	406818		
83	100		
85	63.9	52.3	78.5
127	8.6	6.2	9.4

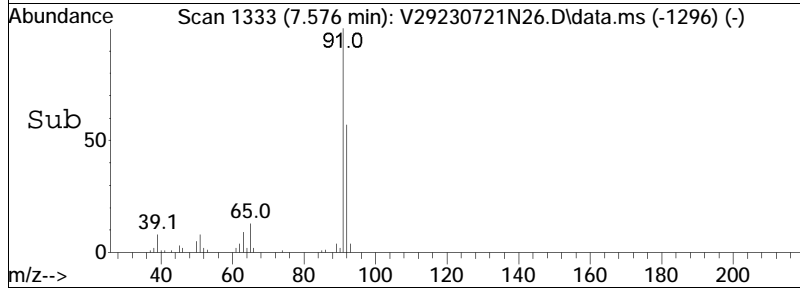
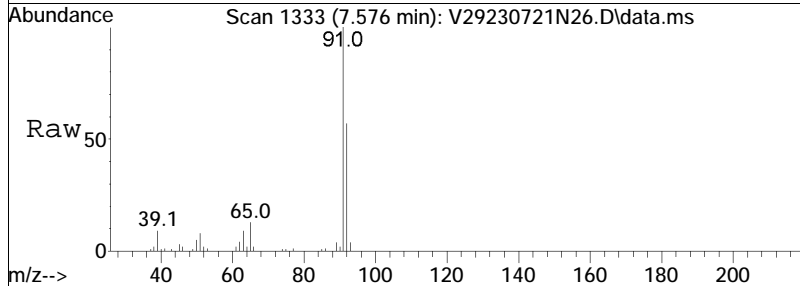
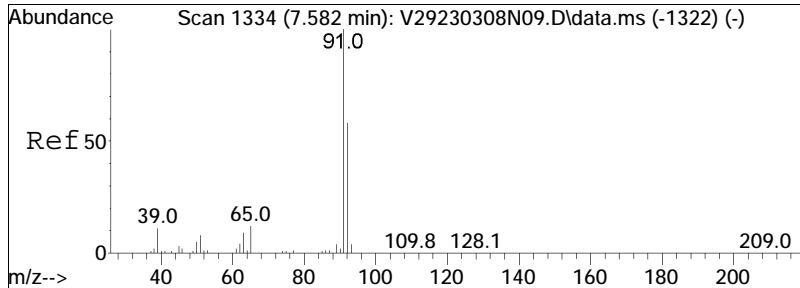




#58
 cis-1,3-Dichloropropene
 Concen: 95.03 ug/L
 RT: 7.356 min Scan# 1291
 Delta R.T. -0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

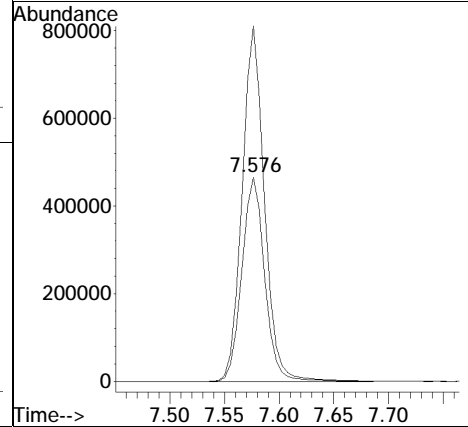
Tgt Ion	Resp	Lower	Upper
75	100		
77	31.6	25.0	37.4
39	46.8	50.1	75.1#

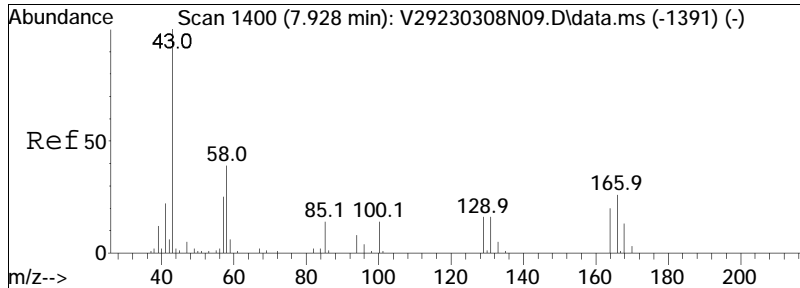




#61
 Toluene
 Concen: 93.63 ug/L
 RT: 7.576 min Scan# 1333
 Delta R.T. -0.006 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

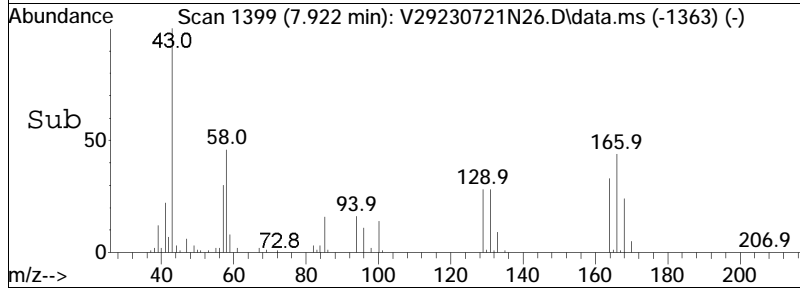
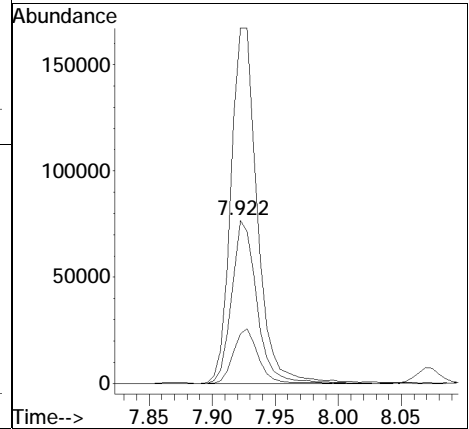
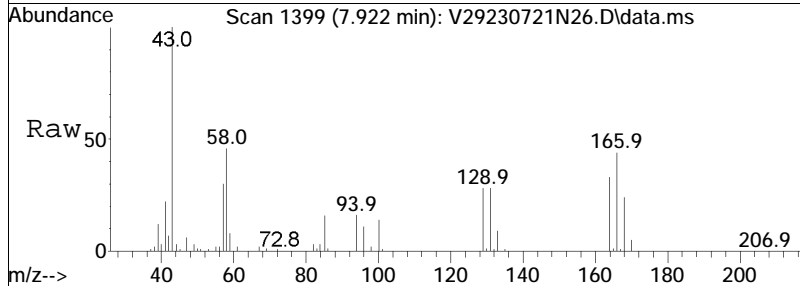
Tgt Ion	Resp	Lower	Upper
92	674393		
92	100		
91	169.7	139.8	209.6

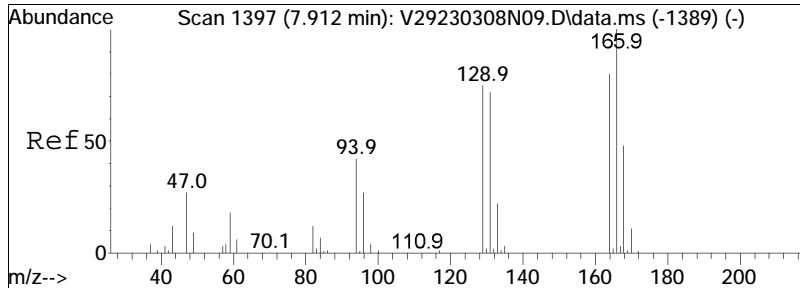




#62
 4-Methyl-2-pentanone
 Concen: 76.52 ug/L
 RT: 7.922 min Scan# 1399
 Delta R.T. -0.011 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

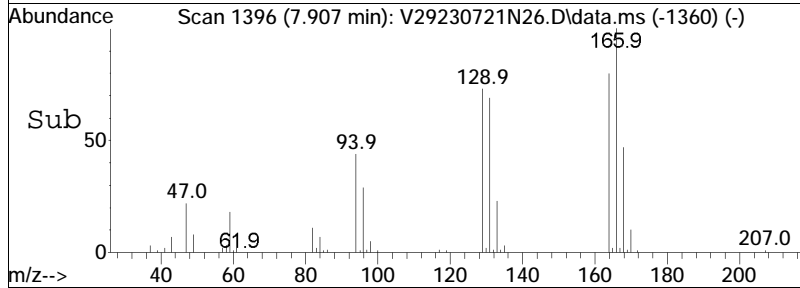
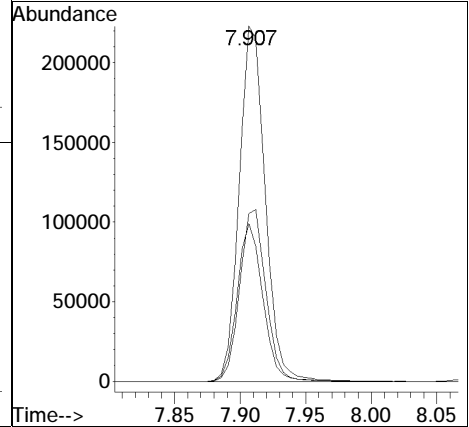
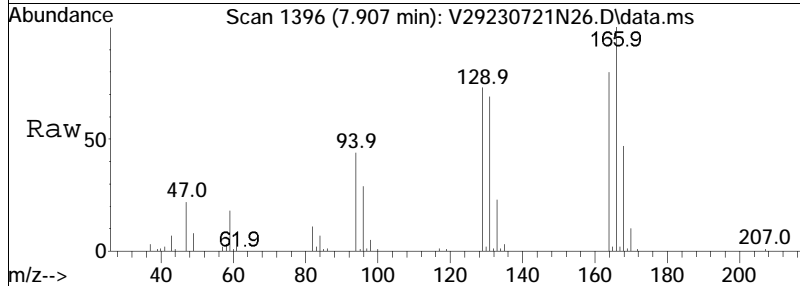
Tgt Ion	Resp	Lower	Upper
58	106578		
58	100		
100	33.1	20.2	30.2#
43	228.4	196.6	295.0

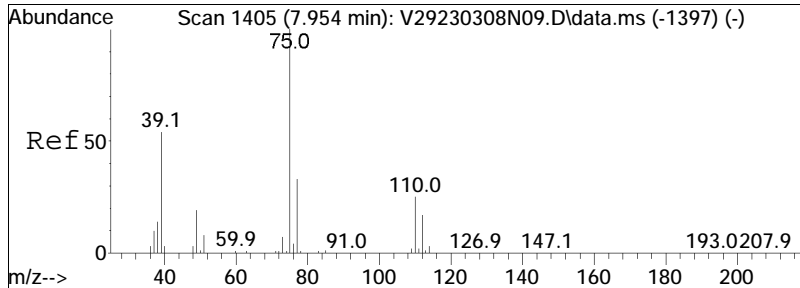




#63
 Tetrachloroethene
 Concen: 87.72 ug/L
 RT: 7.907 min Scan# 1396
 Delta R.T. -0.010 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

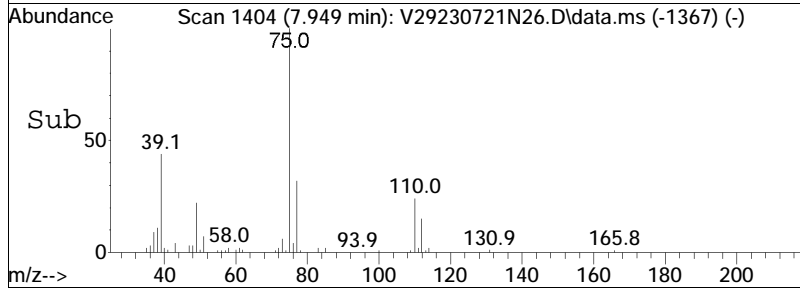
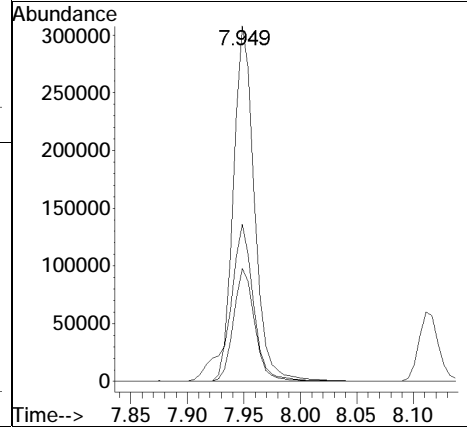
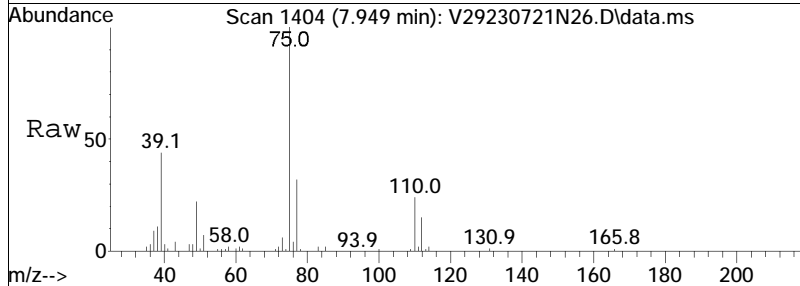
Tgt Ion	Resp	Lower	Upper
166	307450		
166	100		
168	48.8	28.2	68.2
94	44.0	38.4	78.4

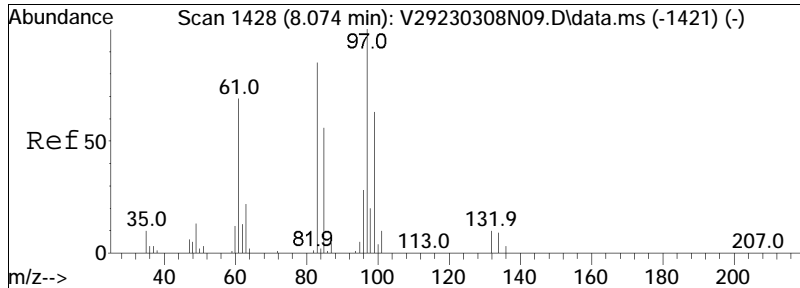




#65
 trans-1,3-Dichloropropene
 Concen: 88.00 ug/L
 RT: 7.949 min Scan# 1404
 Delta R.T. -0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

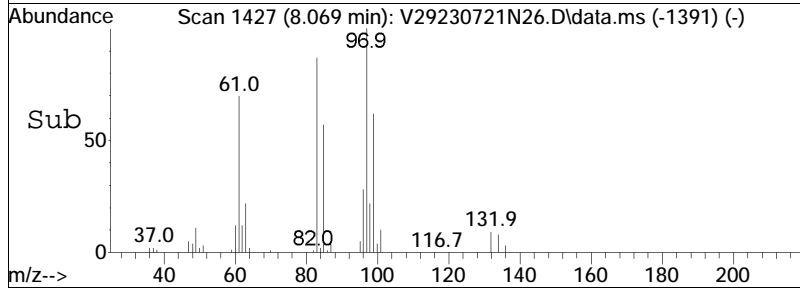
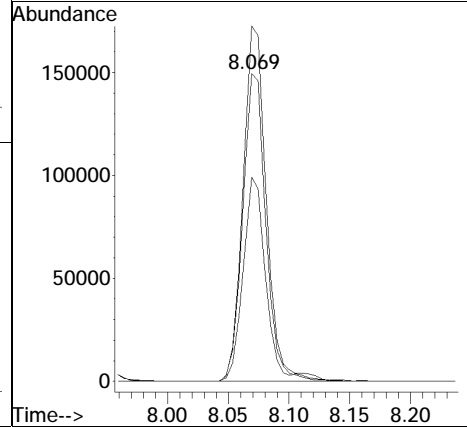
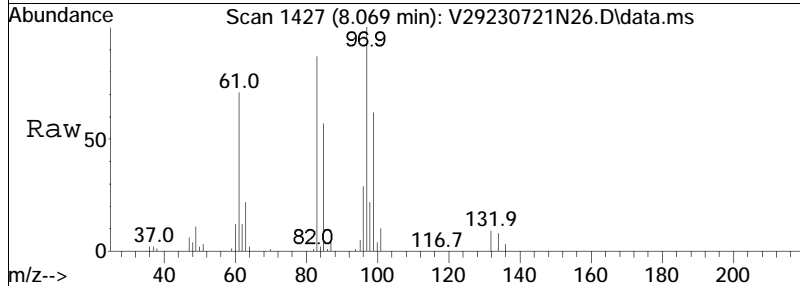
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
75	100		
77	32.0	12.4	52.4
39	50.2	42.8	82.8

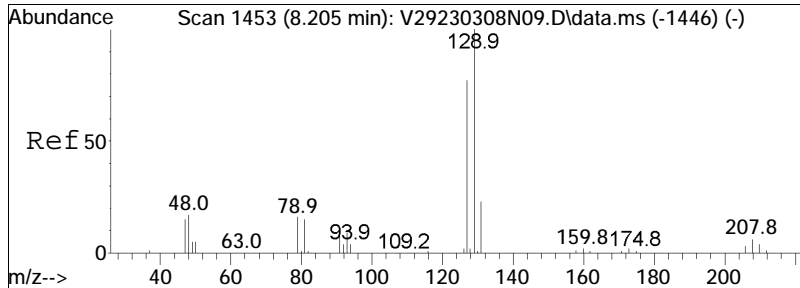




#68
 1,1,2-Trichloroethane
 Concen: 91.66 ug/L
 RT: 8.069 min Scan# 1427
 Delta R.T. -0.011 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

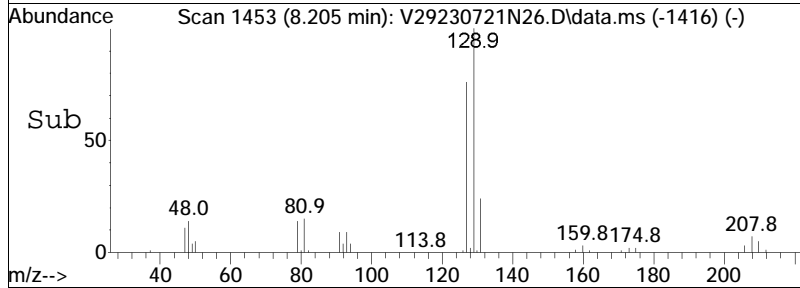
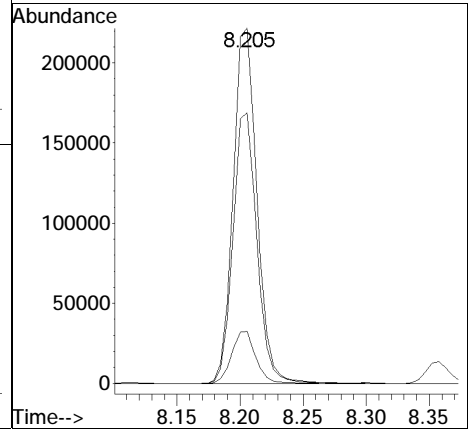
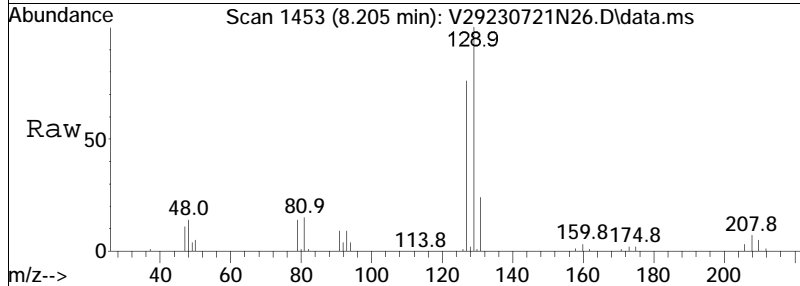
Tgt Ion:	83	Resp:	198699
Ion Ratio	Lower	Upper	
83	100		
97	116.1	89.8	129.8
85	63.5	44.4	84.4

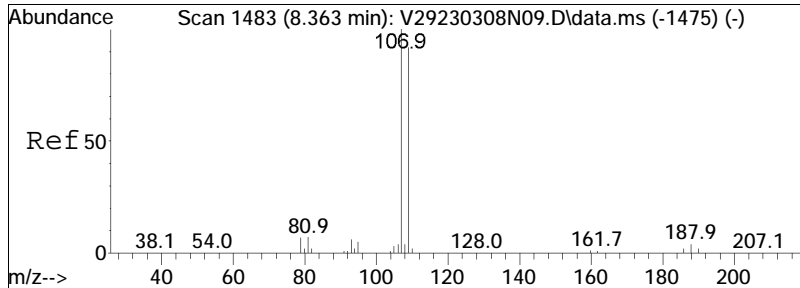




#69
 Chlorodibromomethane
 Concen: 92.94 ug/L
 RT: 8.205 min Scan# 1453
 Delta R.T. -0.006 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

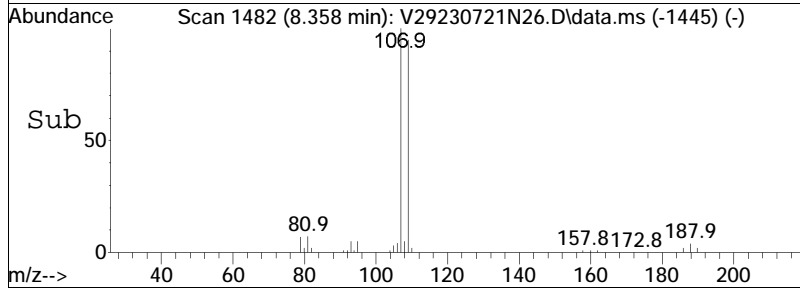
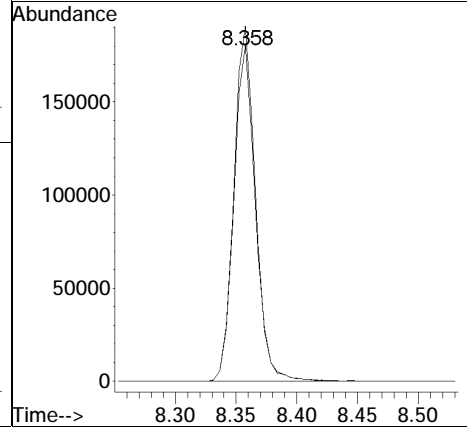
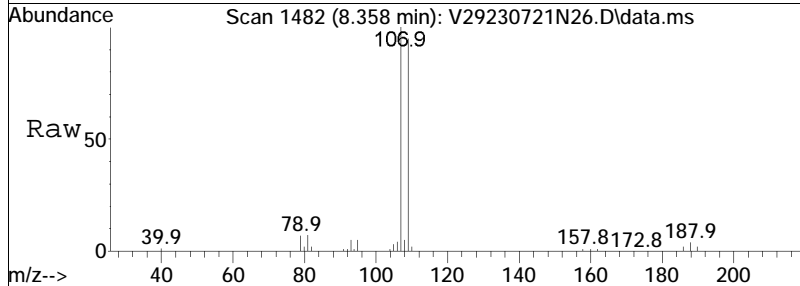
Tgt Ion	Resp	Lower	Upper
129	291600		
129	100		
81	14.8	2.9	42.9
127	76.4	57.8	97.8

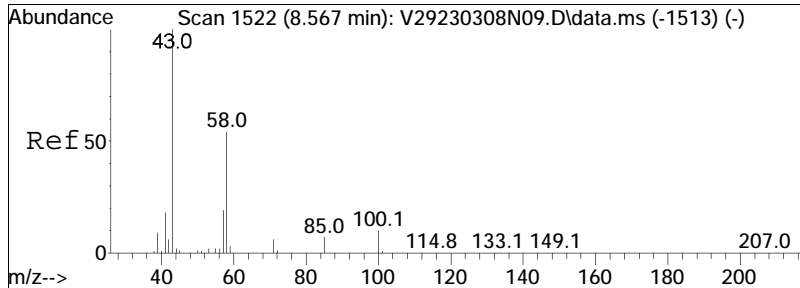




#71
 1,2-Dibromoethane
 Concen: 89.41 ug/L
 RT: 8.358 min Scan# 1482
 Delta R.T. -0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

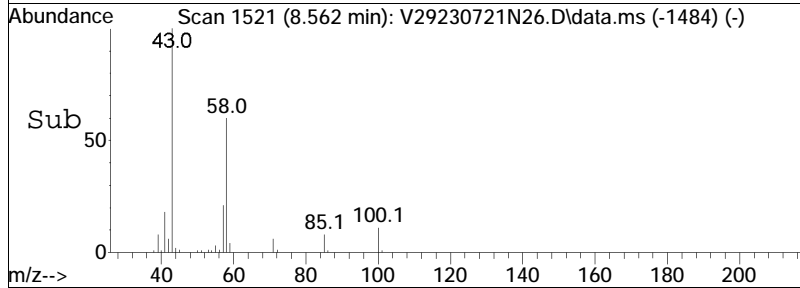
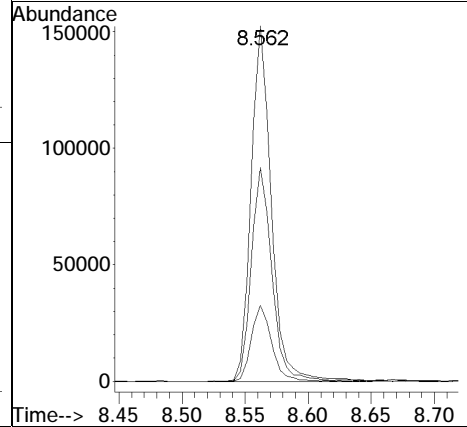
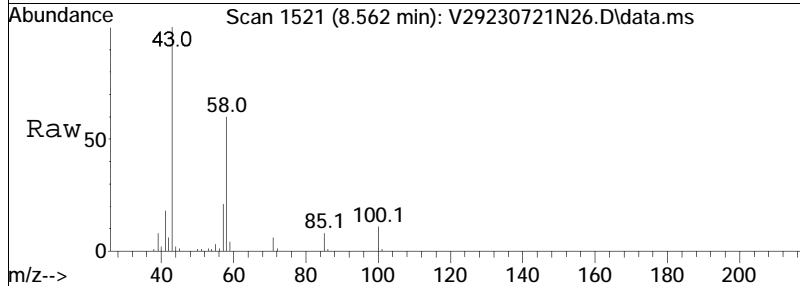
Tgt Ion	Resp	Lower	Upper
107	236124		
107	100		
109	94.6	74.3	111.5

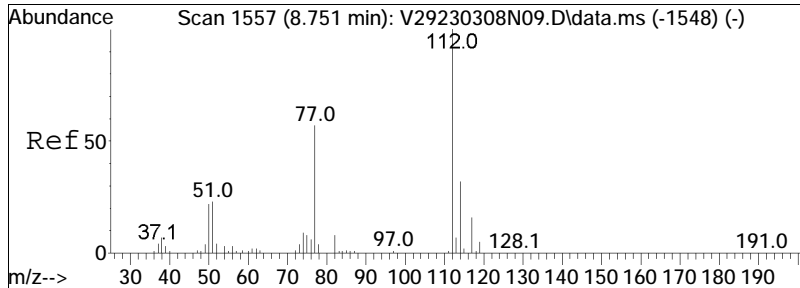




#72
 2-Hexanone
 Concen: 64.14 ug/L
 RT: 8.562 min Scan# 1521
 Delta R.T. -0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

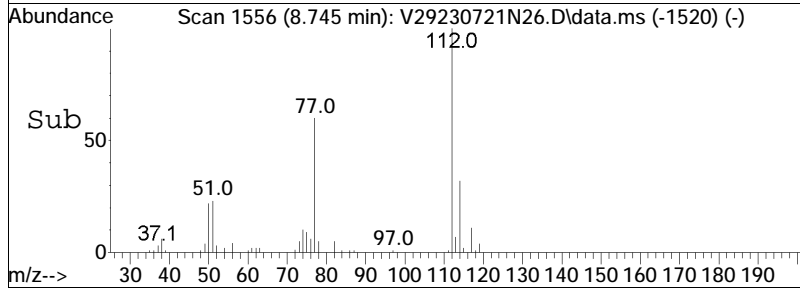
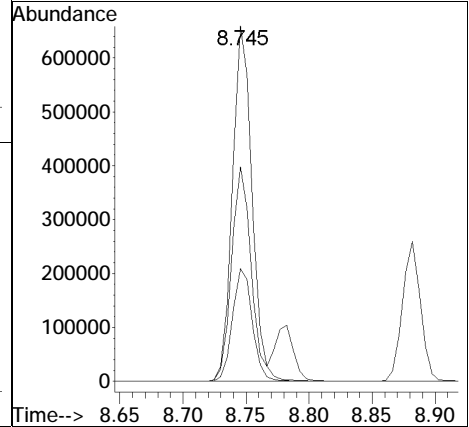
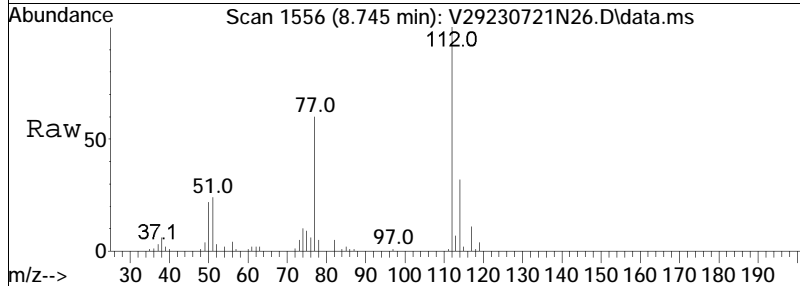
Tgt Ion:	43	58	57	Resp:	170833	Lower	Upper
Ion Ratio	100	60.8	21.6			41.2	61.8

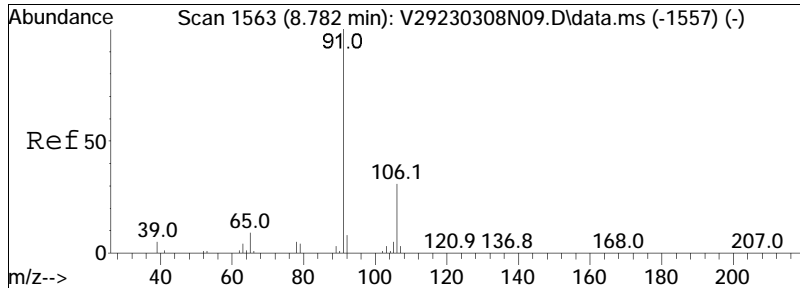




#73
 Chlorobenzene
 Concen: 87.51 ug/L
 RT: 8.745 min Scan# 1556
 Delta R.T. -0.011 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

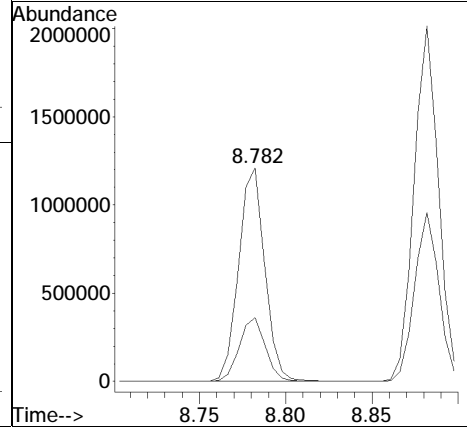
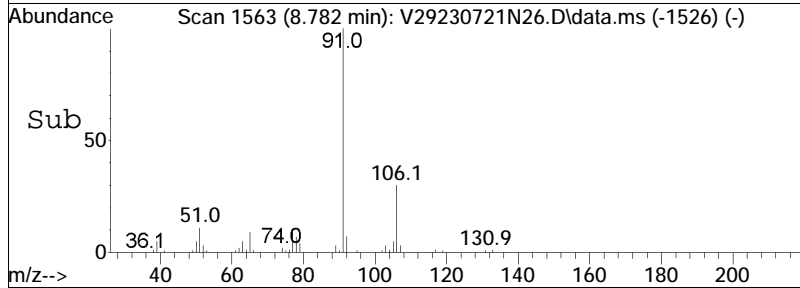
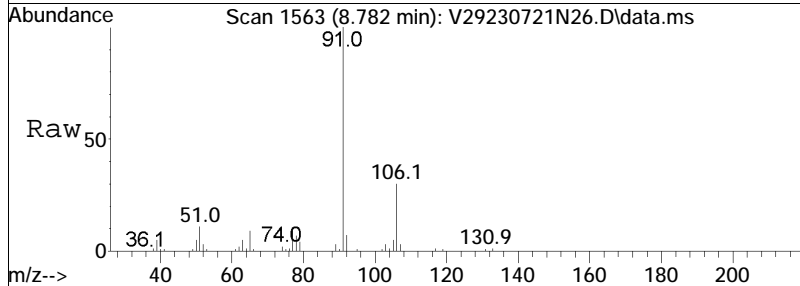
Tgt Ion	Resp	Lower	Upper
112	711443		
77	60.2	55.4	83.0
114	32.3	25.4	38.2

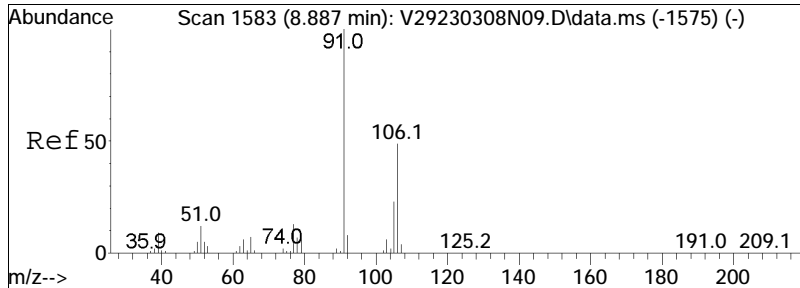




#74
 Ethylbenzene
 Concen: 94.89 ug/L
 RT: 8.782 min Scan# 1563
 Delta R.T. -0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

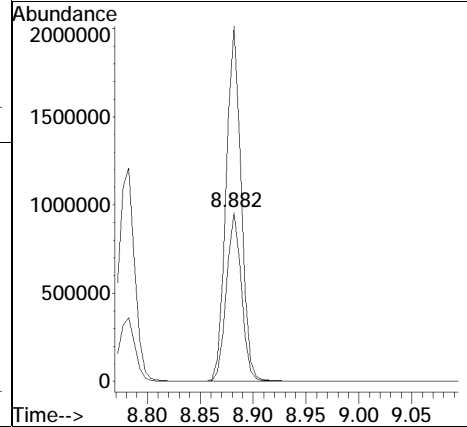
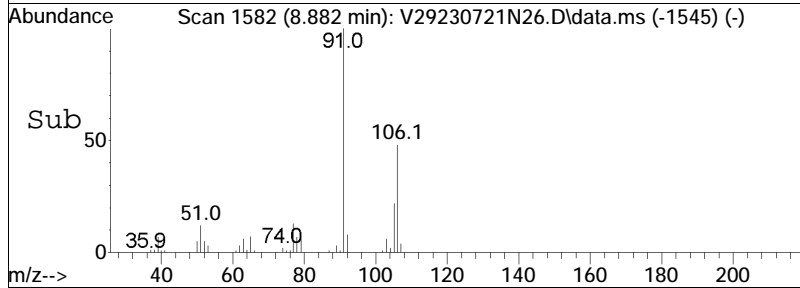
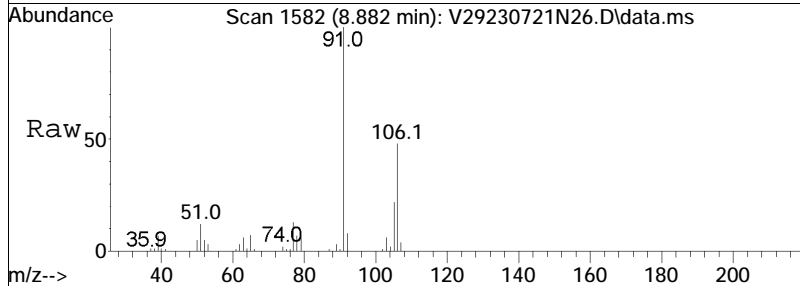
Tgt Ion: 91 Resp: 1277545
 Ion Ratio Lower Upper
 91 100
 106 29.7 24.3 36.5

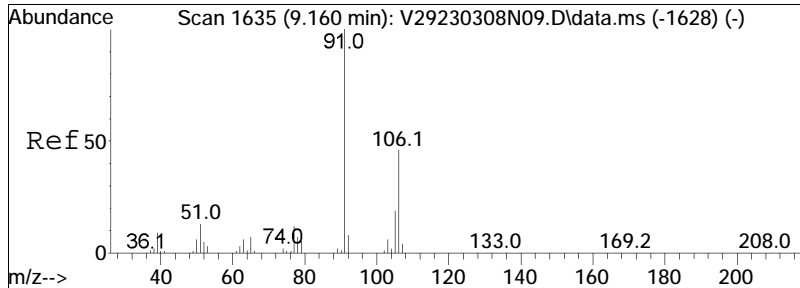




#76
 p/m Xylene
 Concen: 182.10 ug/L
 RT: 8.882 min Scan# 1582
 Delta R.T. -0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

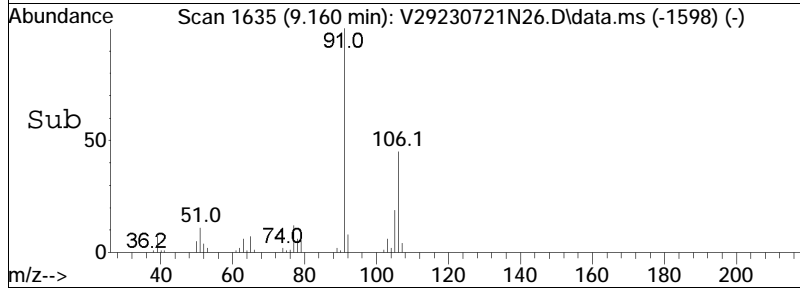
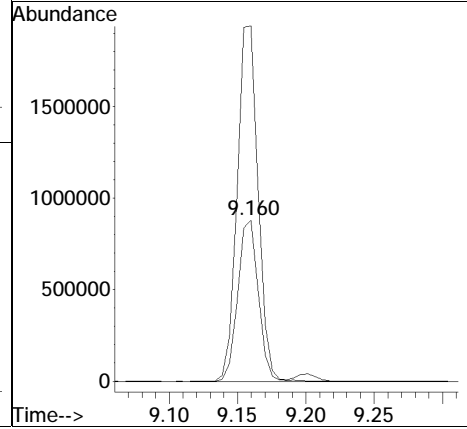
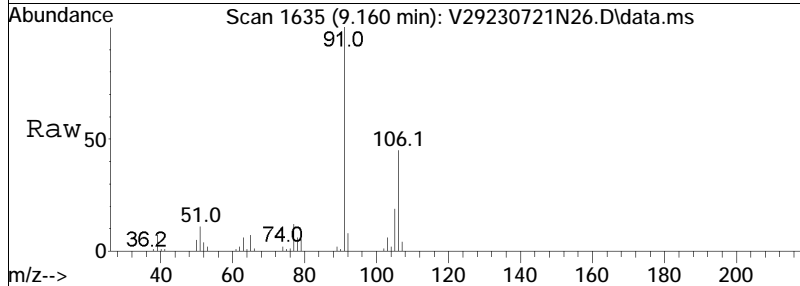
Tgt Ion	Resp	Lower	Upper
106	100		
91	210.2	166.4	249.6

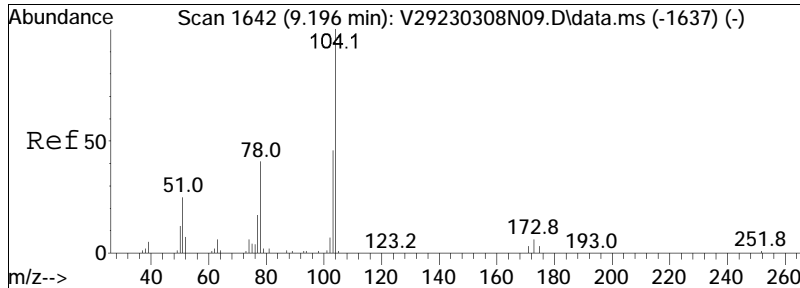




#77
 o Xylene
 Concen: 182.10 ug/L
 RT: 9.160 min Scan# 1635
 Delta R.T. -0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

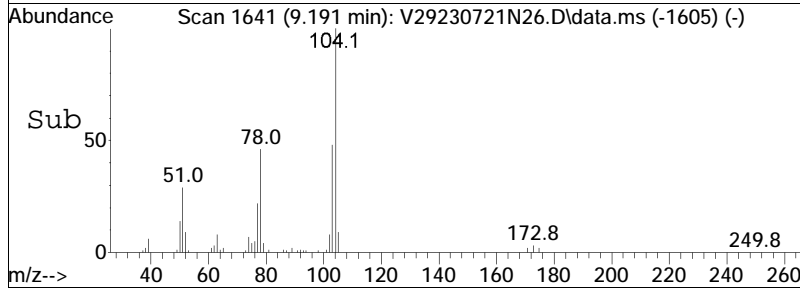
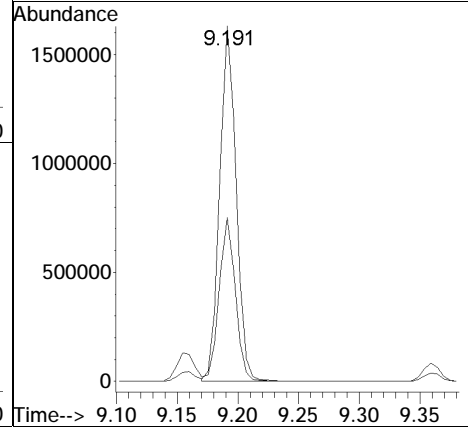
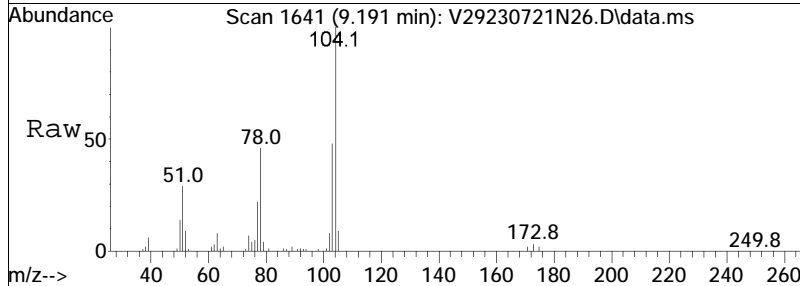
Tgt Ion	Resp	Lower	Upper
106	100		
91	223.2	182.6	273.8

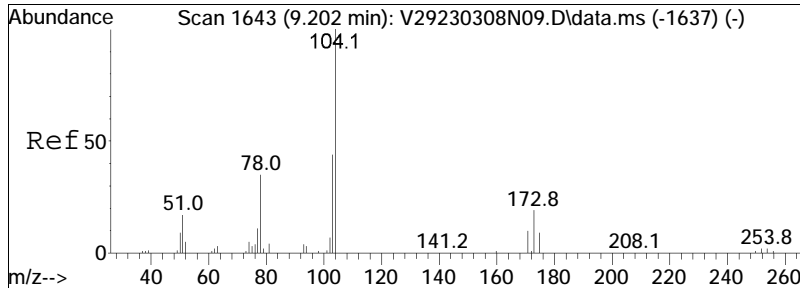




#78
 Styrene
 Concen: 181.56 ug/L
 RT: 9.191 min Scan# 1641
 Delta R.T. -0.011 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

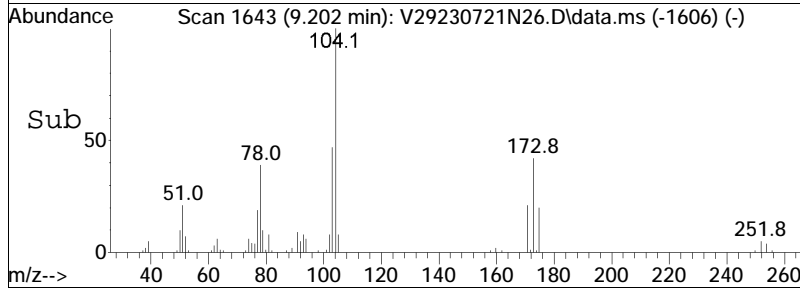
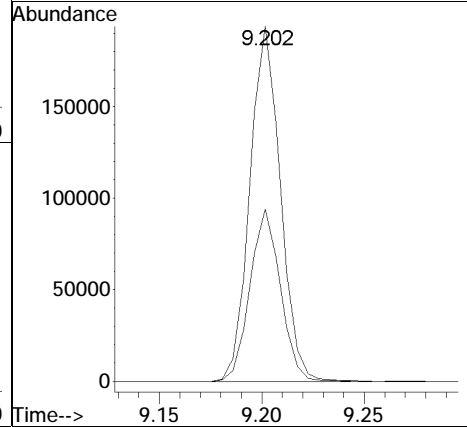
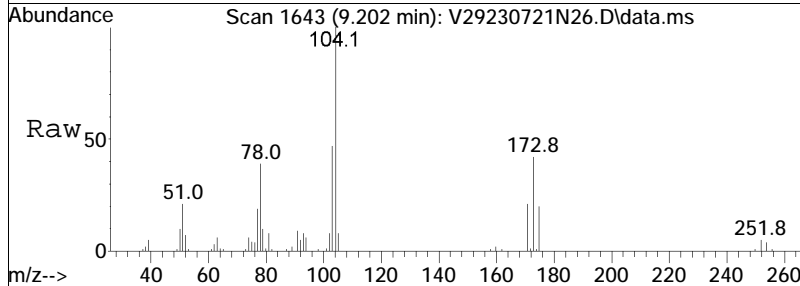
Tgt Ion	Resp	Lower	Upper
104	1539310		
78	45.5	39.8	59.6

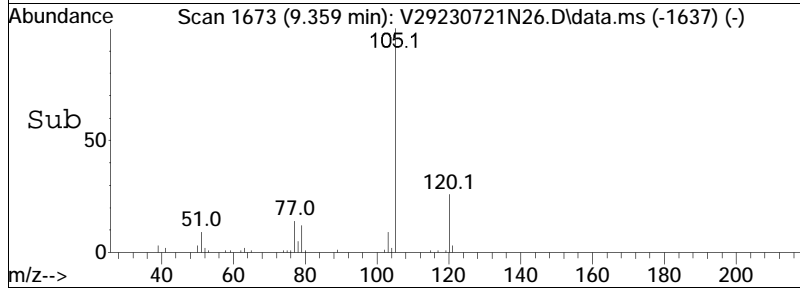
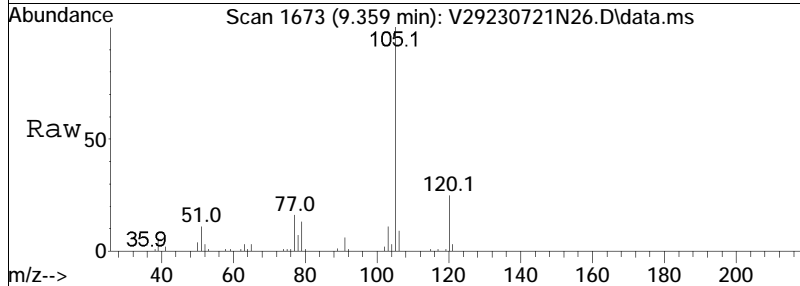
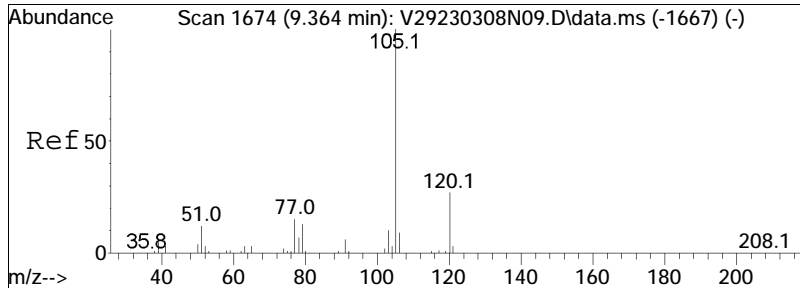




#80
 Bromoform
 Concen: 89.41 ug/L
 RT: 9.202 min Scan# 1643
 Delta R.T. -0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

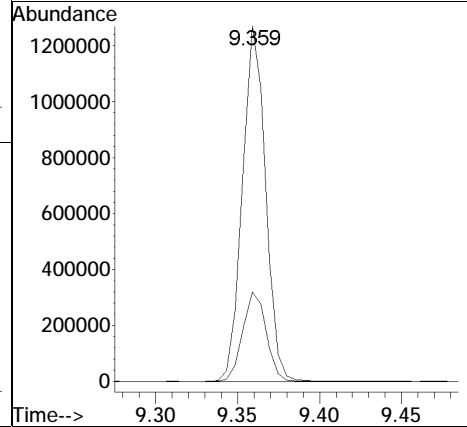
Tgt Ion	Resp	Lower	Upper
173	200395		
173	100		
175	48.4	31.5	71.5

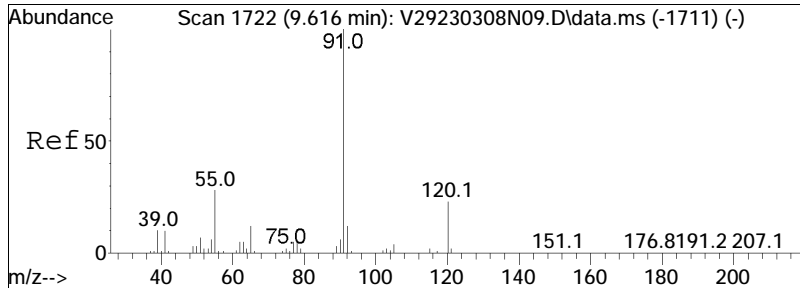




#82
 Isopropylbenzene
 Concen: 90.16 ug/L
 RT: 9.359 min Scan# 1673
 Delta R.T. -0.010 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

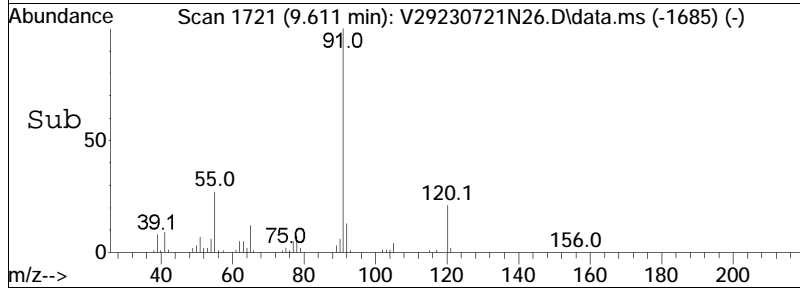
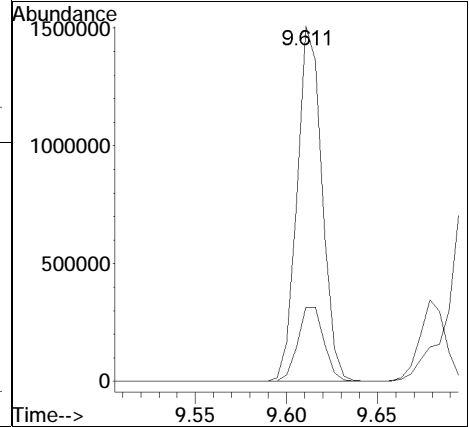
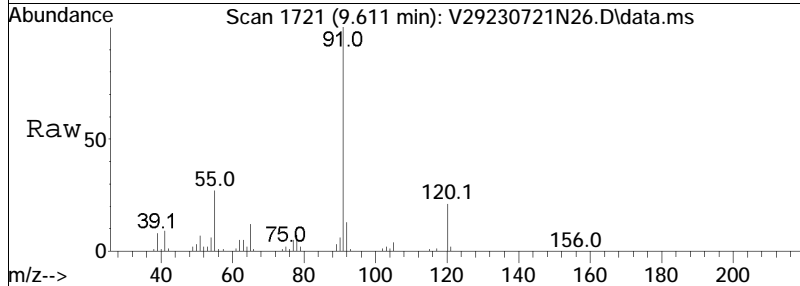
Tgt Ion	Resp	Lower	Upper
105	100		
120	25.6	4.8	44.8

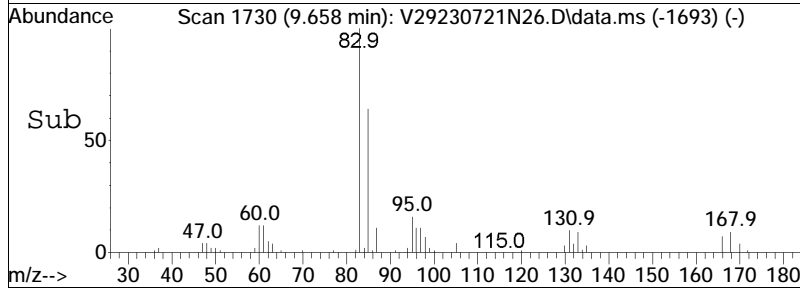
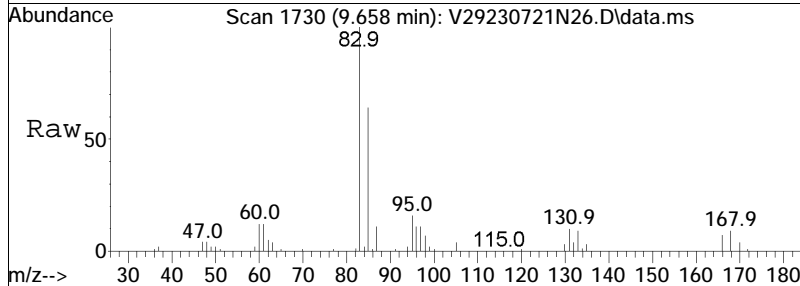
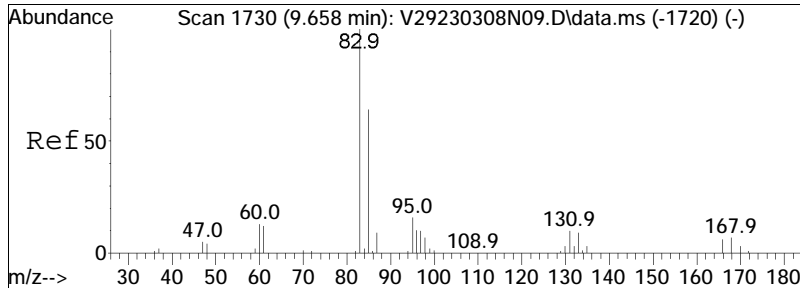




#85
 n-Propylbenzene
 Concen: 87.18 ug/L
 RT: 9.611 min Scan# 1721
 Delta R.T. -0.010 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

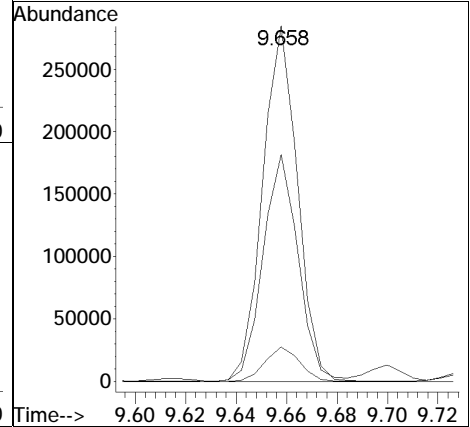
Tgt Ion: 91 Resp: 1438313
 Ion Ratio Lower Upper
 91 100
 120 21.9 17.0 25.6

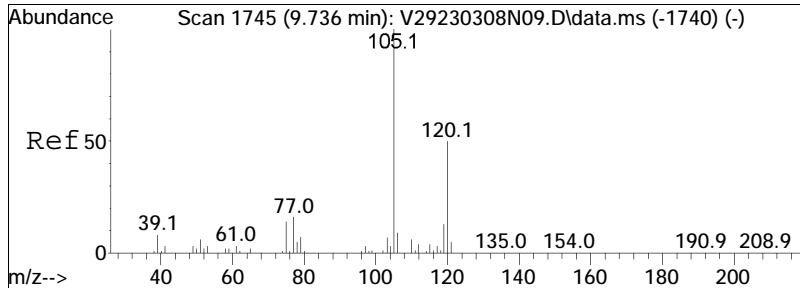




#87
 1,1,2,2-Tetrachloroethane
 Concen: 79.67 ug/L
 RT: 9.658 min Scan# 1730
 Delta R.T. -0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

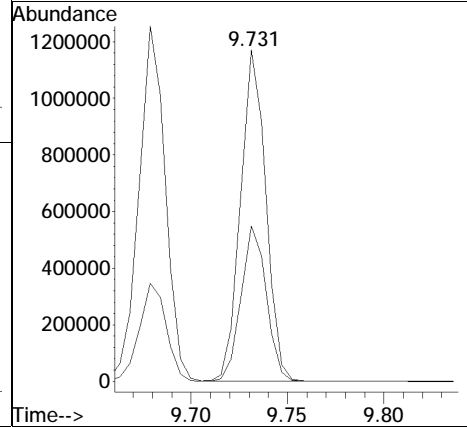
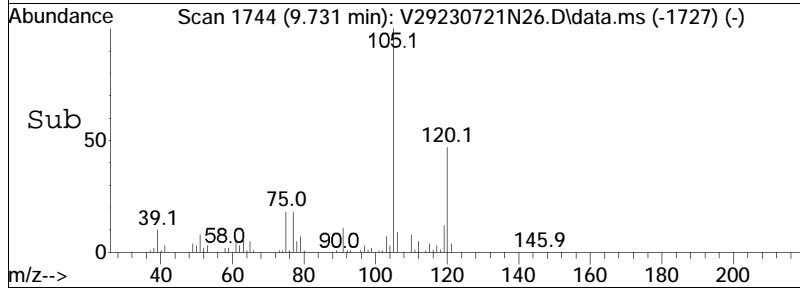
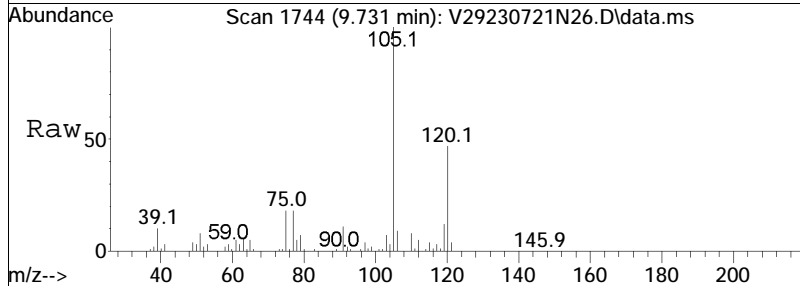
Tgt Ion	Resp	Lower	Upper
83	272902		
83	100		
131	9.7	0.0	30.4
85	64.4	45.4	85.4

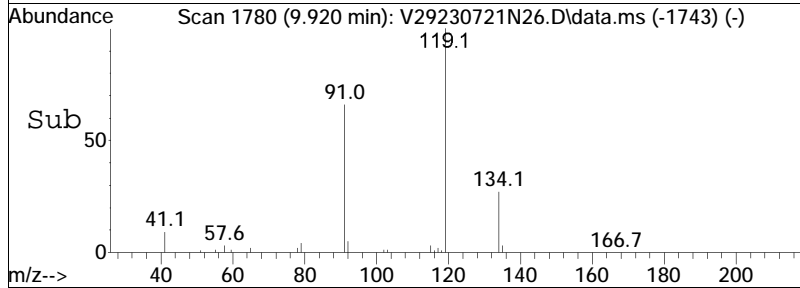
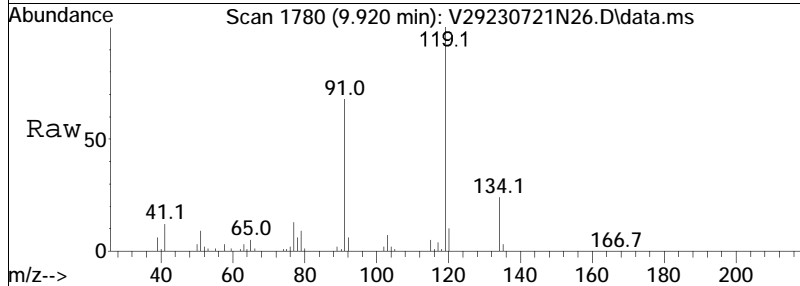
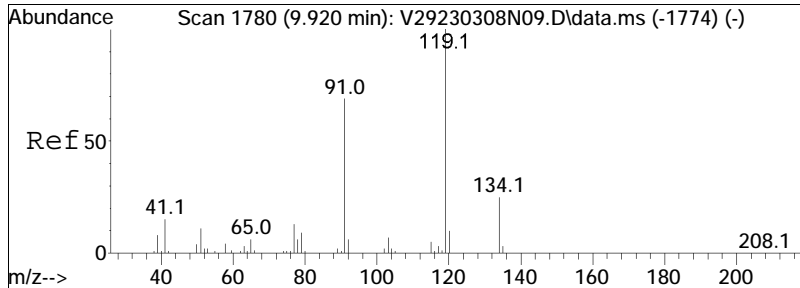




#90
 1,3,5-Trimethylbenzene
 Concen: 87.74 ug/L
 RT: 9.731 min Scan# 1744
 Delta R.T. -0.011 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

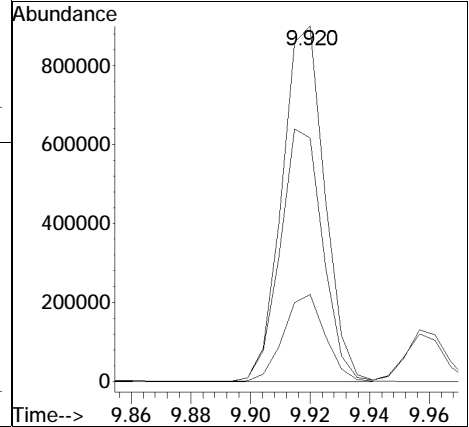
Tgt Ion	Resp	Lower	Upper
105	100		
120	46.8	34.8	52.2

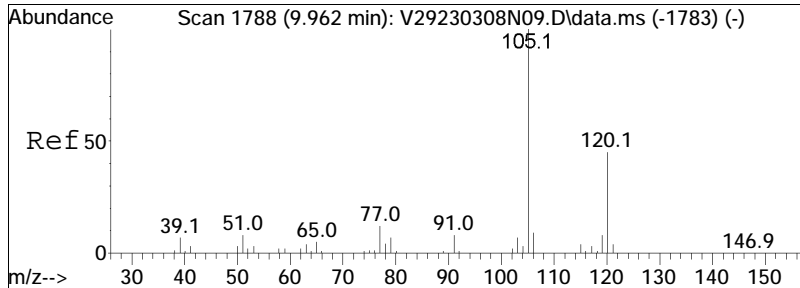




#94
 tert-Butylbenzene
 Concen: 86.32 ug/L
 RT: 9.920 min Scan# 1780
 Delta R.T. -0.005 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

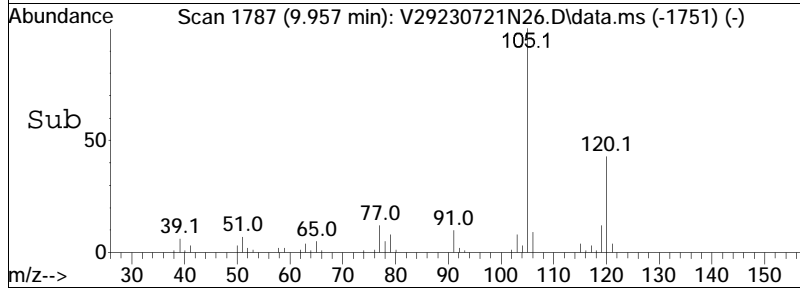
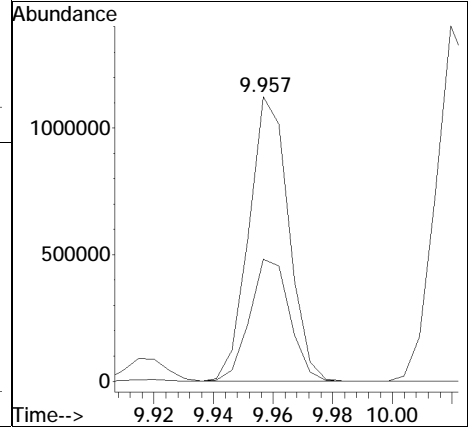
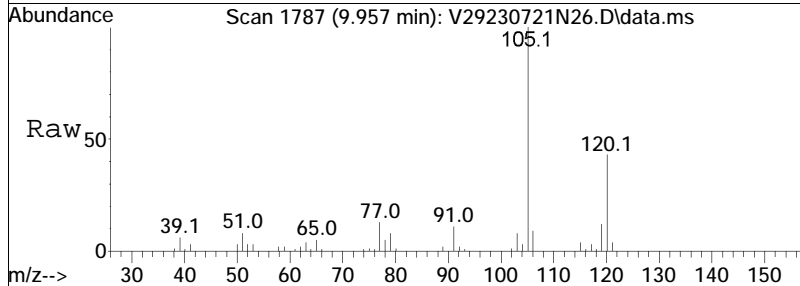
Tgt Ion	Resp	Lower	Upper
119	895486		
119	100		
91	70.9	51.4	77.2
134	23.9	18.3	27.5

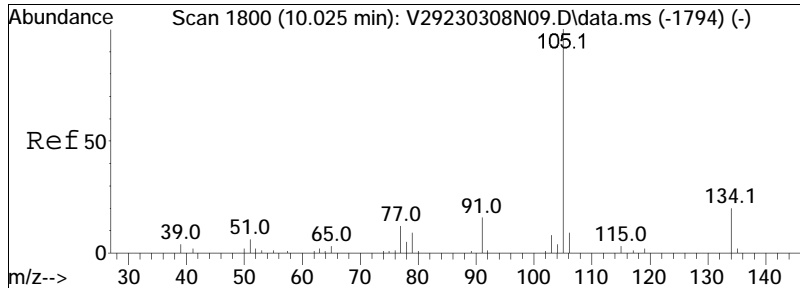




#97
 1,2,4-Trimethylbenzene
 Concen: 85.90 ug/L
 RT: 9.957 min Scan# 1787
 Delta R.T. -0.010 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

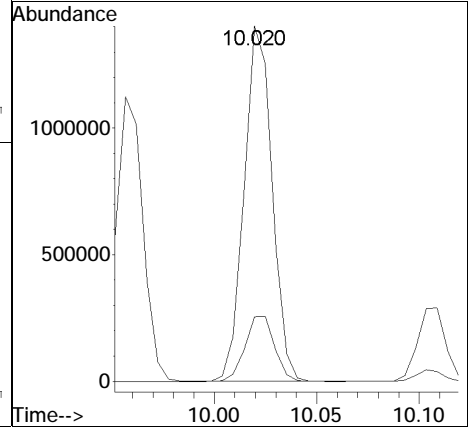
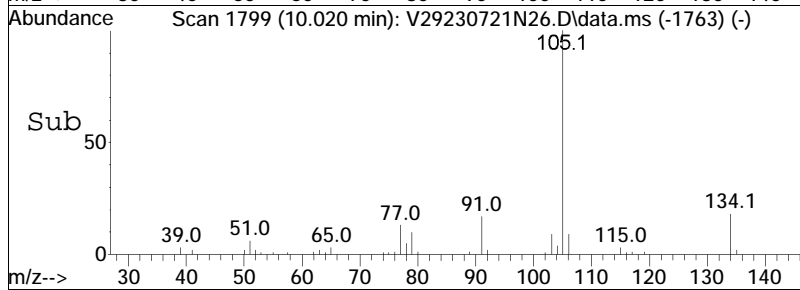
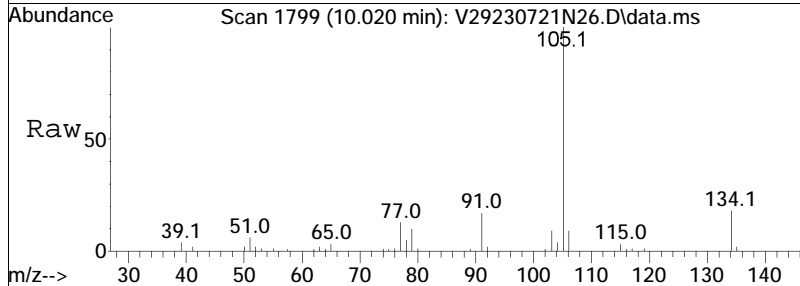
Tgt Ion	Resp	Lower	Upper
105	100		
120	43.4	33.4	50.0

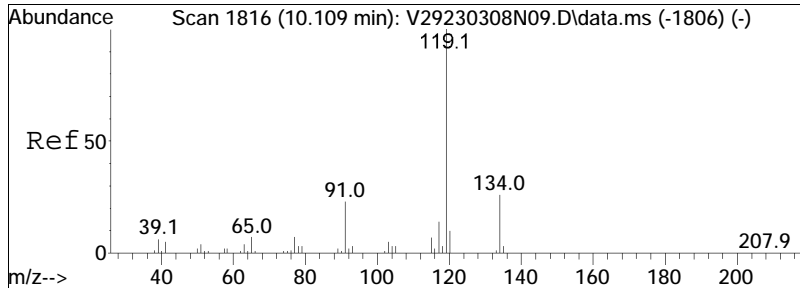




#98
 sec-Butylbenzene
 Concen: 87.98 ug/L
 RT: 10.020 min Scan# 1799
 Delta R.T. -0.010 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

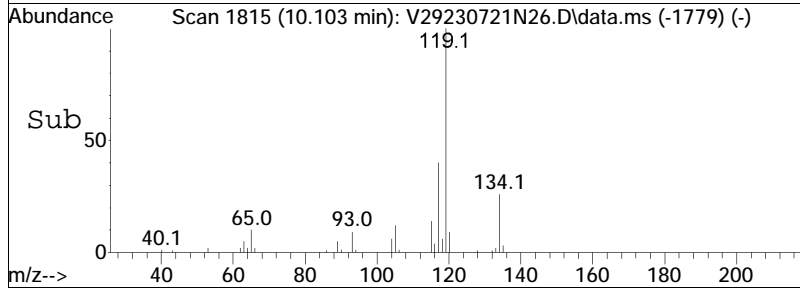
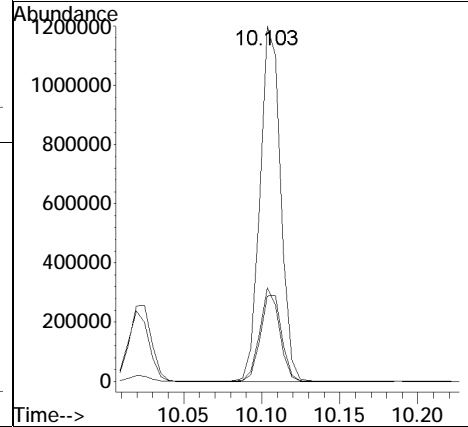
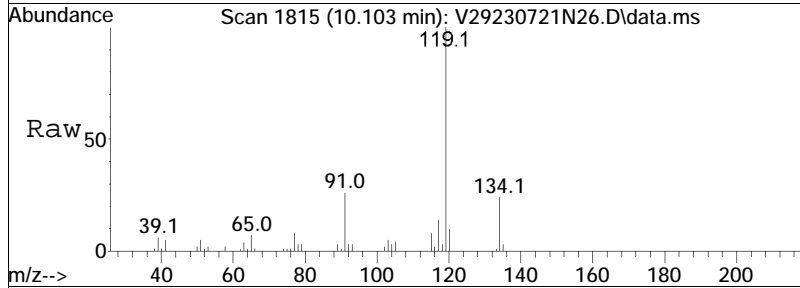
Tgt Ion: 105 Resp: 1331709
 Ion Ratio Lower Upper
 105 100
 134 19.3 12.5 26.1

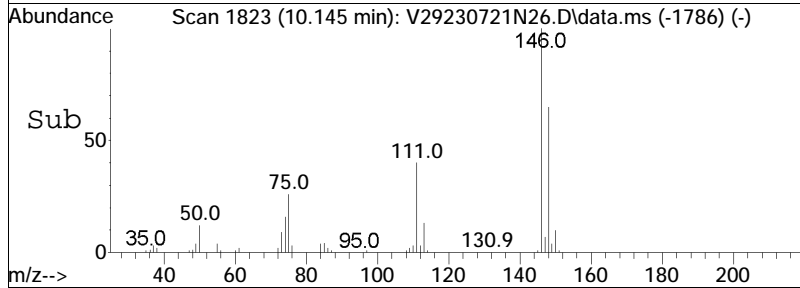
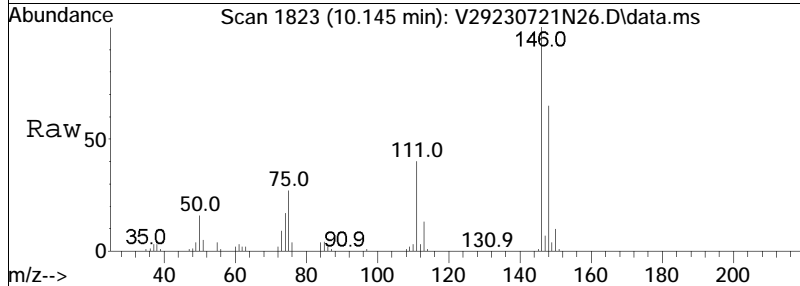
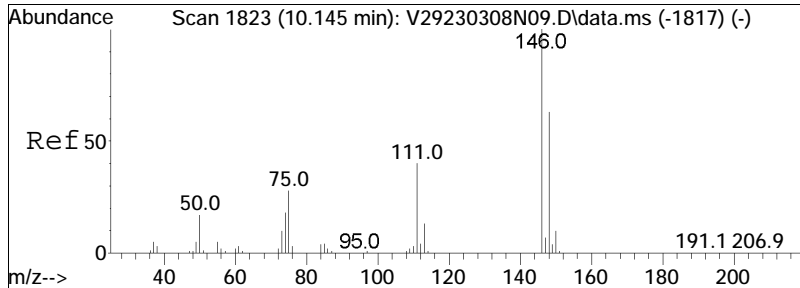




#99
 p-Isopropyltoluene
 Concen: 82.05 ug/L
 RT: 10.103 min Scan# 1815
 Delta R.T. -0.011 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

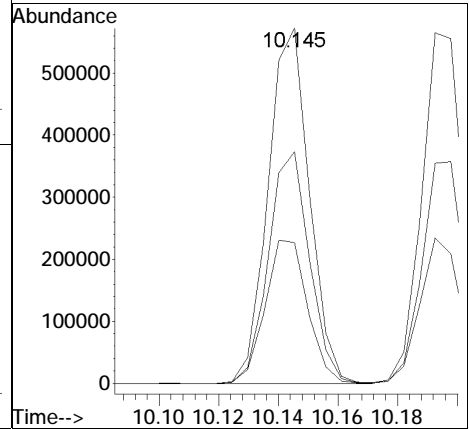
Tgt Ion	Resp	Lower	Upper
119	100		
134	25.1	16.1	33.3
91	25.2	17.3	35.9

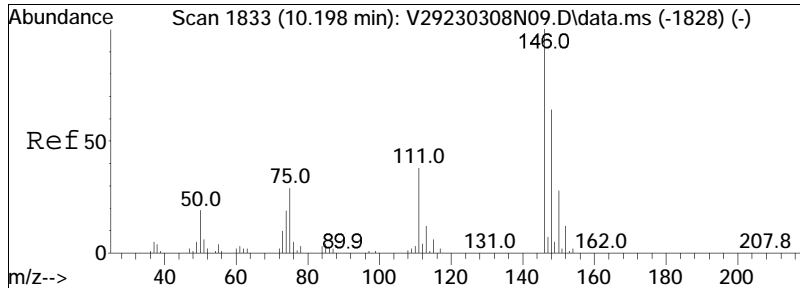




#100
 1,3-Dichlorobenzene
 Concen: 77.36 ug/L
 RT: 10.145 min Scan# 1823
 Delta R.T. -0.006 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

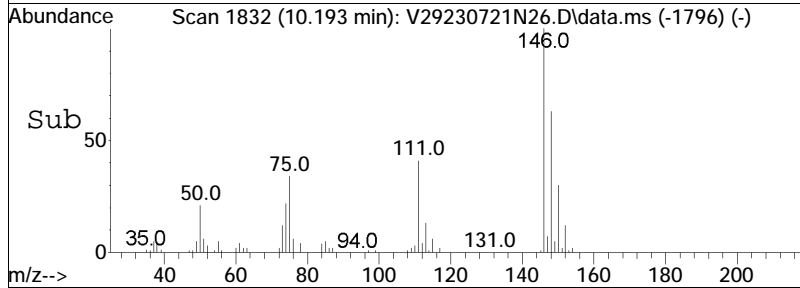
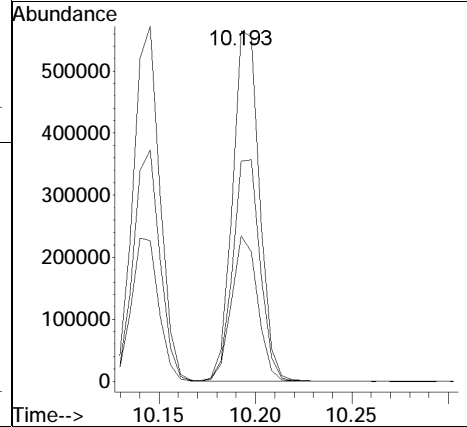
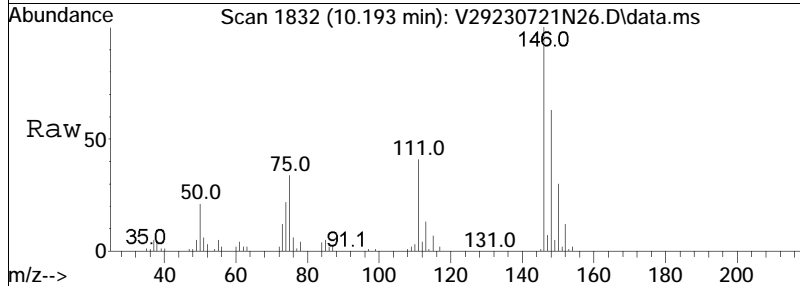
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.5	27.5	57.1
148	64.9	41.9	86.9

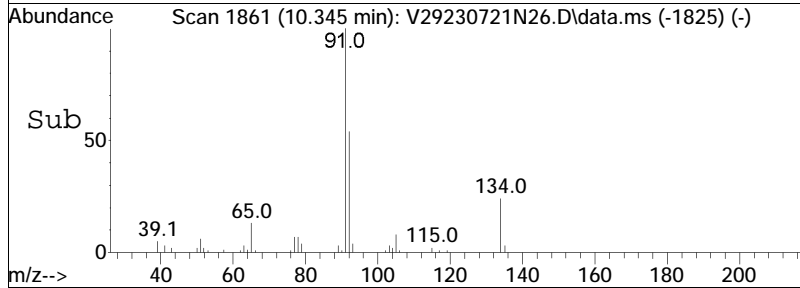
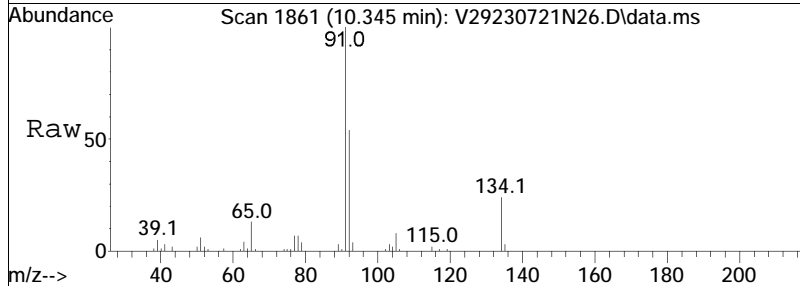
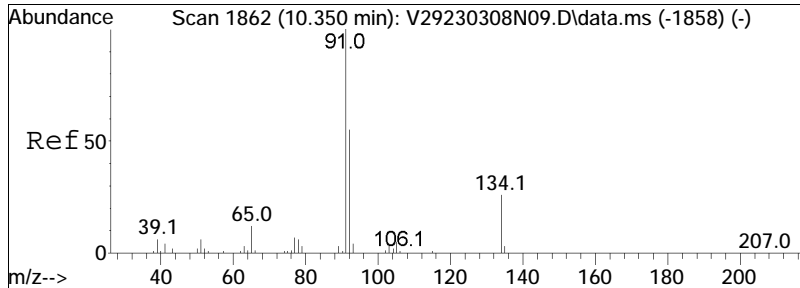




#101
 1,4-Dichlorobenzene
 Concen: 75.60 ug/L
 RT: 10.193 min Scan# 1832
 Delta R.T. -0.010 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

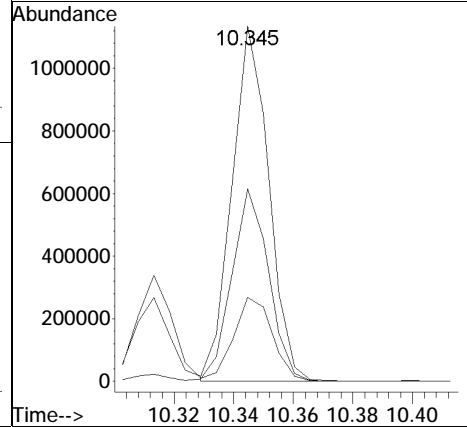
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	32.3	48.5
148	64.4	49.9	74.9

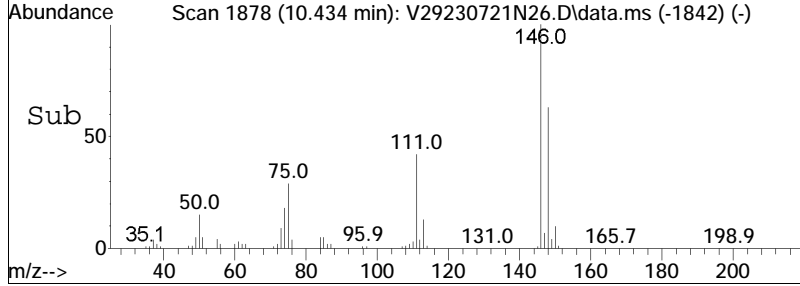
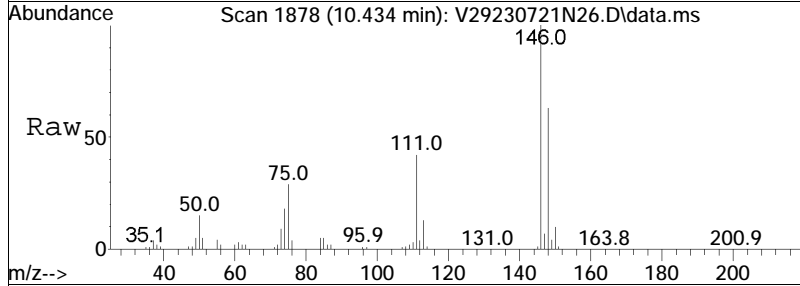
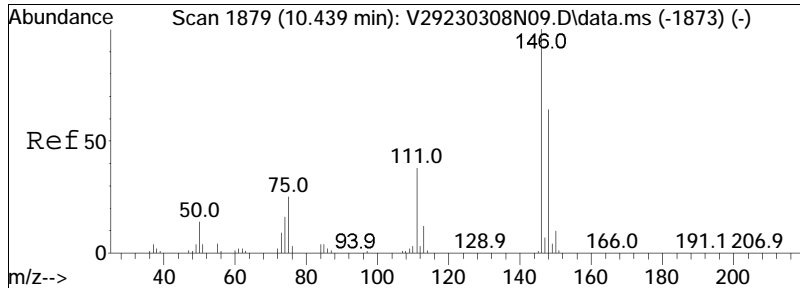




#103
 n-Butylbenzene
 Concen: 83.05 ug/L
 RT: 10.345 min Scan# 1861
 Delta R.T. -0.010 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

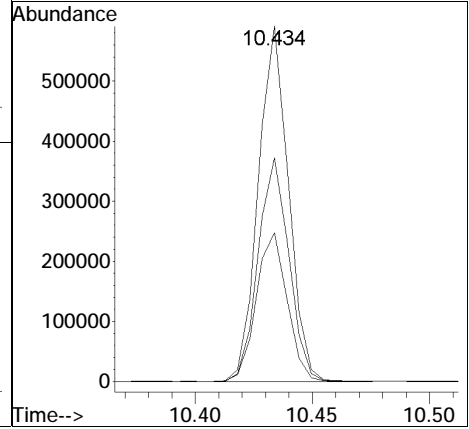
Tgt Ion:	91	Resp:	975322
Ion Ratio	Lower	Upper	
91	100		
92	54.5	43.0	64.4
134	24.9	19.6	29.4

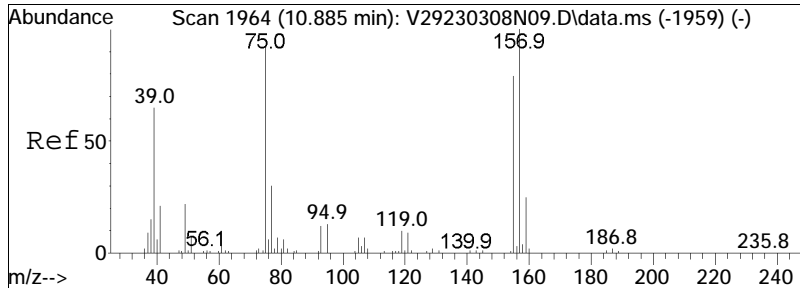




#104
 1,2-Dichlorobenzene
 Concen: 77.62 ug/L
 RT: 10.434 min Scan# 1878
 Delta R.T. -0.010 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

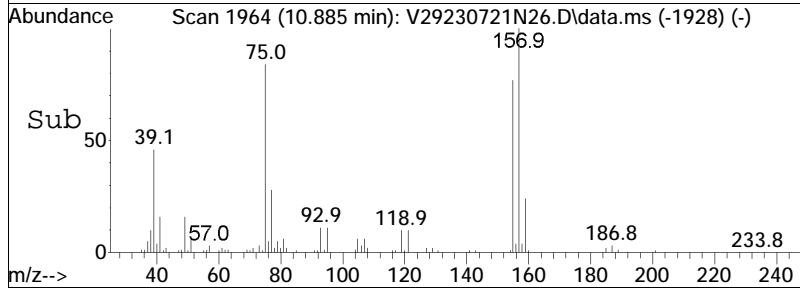
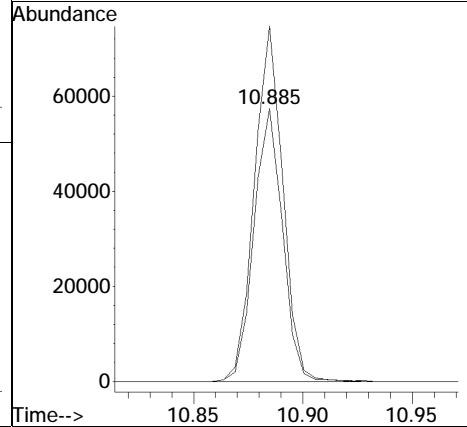
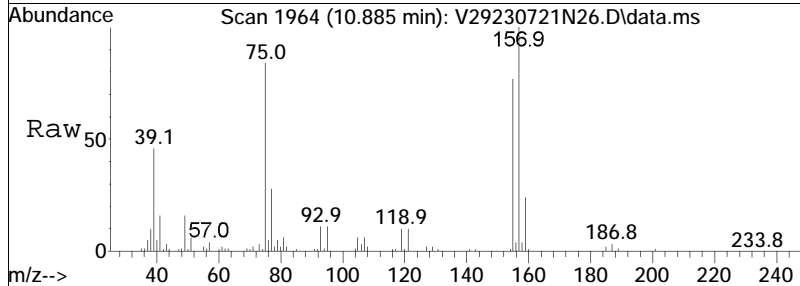
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.0	28.3	58.7
148	64.4	42.3	87.8

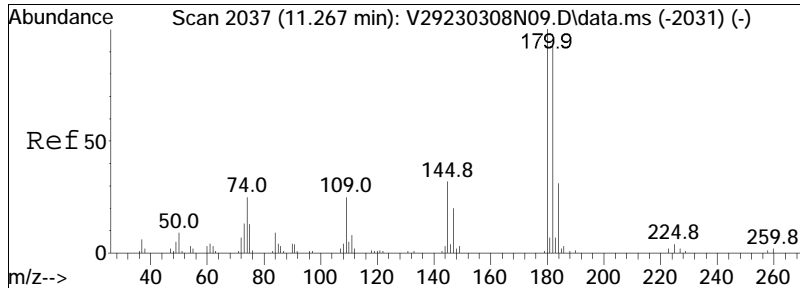




#106
 1,2-Dibromo-3-chloropropane
 Concen: 75.39 ug/L
 RT: 10.885 min Scan# 1964
 Delta R.T. -0.010 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

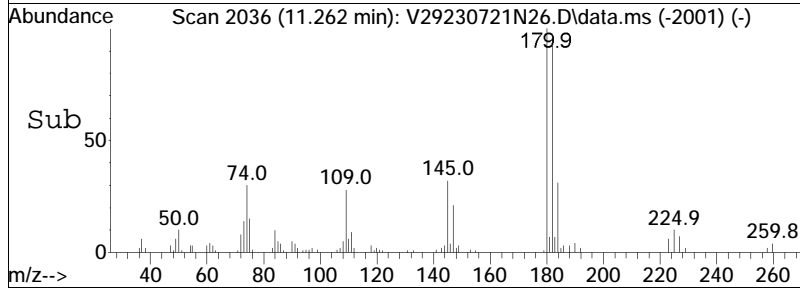
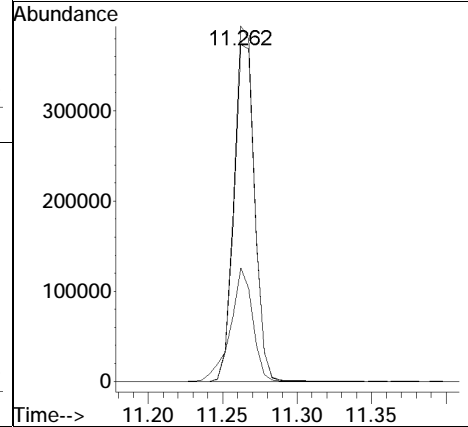
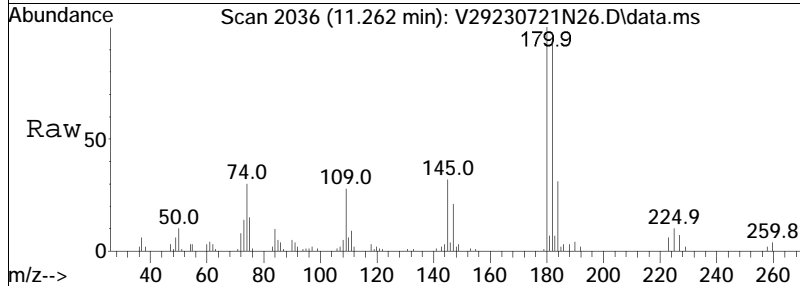
Tgt Ion	Resp	Lower	Upper
155	52173		
157	129.7	94.8	142.2

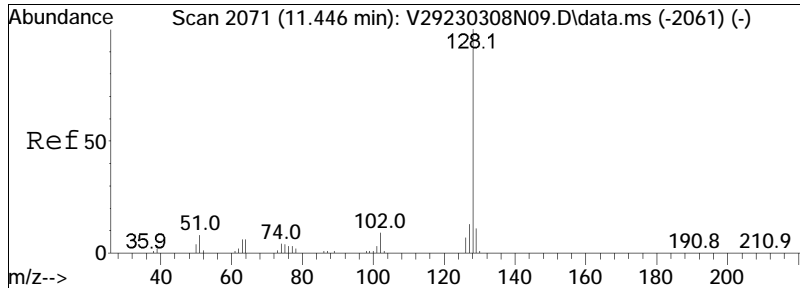




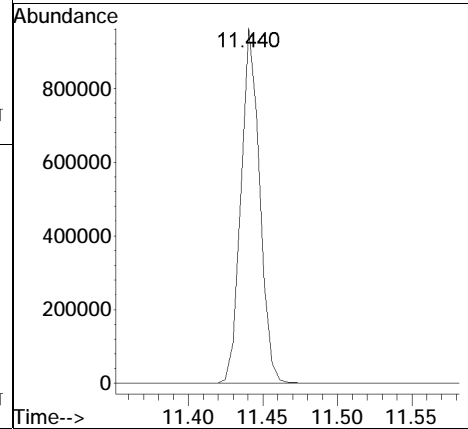
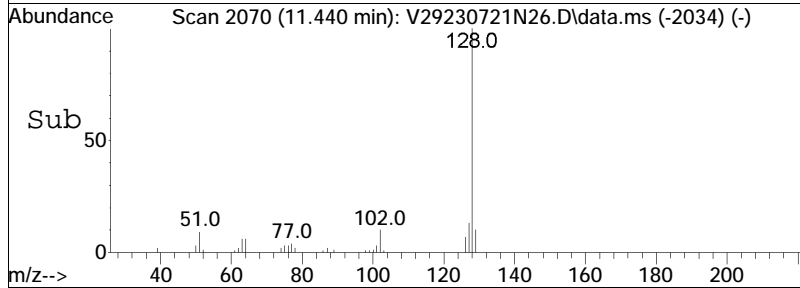
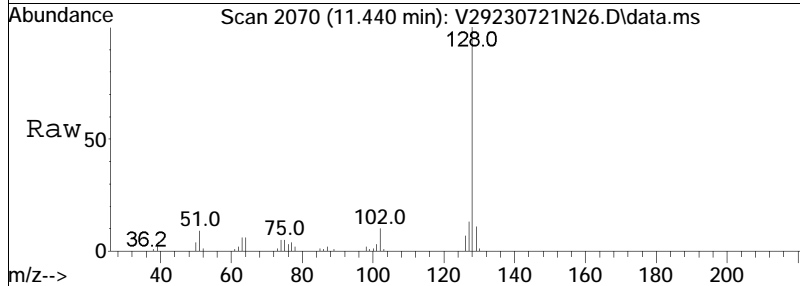
#109
 1,2,4-Trichlorobenzene
 Concen: 72.75 ug/L
 RT: 11.262 min Scan# 2036
 Delta R.T. -0.016 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.3	115.9
145	34.6	28.1	42.1





#110
 Naphthalene
 Concen: 70.24 ug/L
 RT: 11.440 min Scan# 2070
 Delta R.T. -0.011 min
 Lab File: V29230721N26.D
 Acq: 22 Jul 2023 03:15 am
 Tgt Ion:128 Resp: 840812



Manual Integration Report

Data Path : K:\VOA129\2023\230721N\ QMethod : V129_230308N_8260.m
Data File : V29230721N26.D Operator : VOA129:AJK
Date Inj'd : 7/22/2023 3:15 am Instrument : VOA 129
Sample : WG1806697-6,31,6.66,5,,b1 Quant Date : 7/23/2023 3:30 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N27.D
 Acq On : 22 Jul 2023 03:36 am
 Operator : VOA129:AJK
 Sample : WG1806697-7,31,6.24,5,,b2
 Misc : WG1806697,ICAL19799
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 23 15:30:11 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.898	96	263482	20.000	ug/L	0.00
Standard Area 1 = 283796			Recovery =	92.84%		
59) Chlorobenzene-d5	8.735	117	206211	20.000	ug/L	0.00
Standard Area 1 = 220595			Recovery =	93.48%		
79) 1,4-Dichlorobenzene-d4	10.187	152	116375	20.000	ug/L	0.00
Standard Area 1 = 120931			Recovery =	96.23%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.960	113	68536	19.770	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.85%		
43) 1,2-Dichloroethane-d4	5.563	65	82499	21.433	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	107.16%		
60) Toluene-d8	7.529	98	264722	19.750	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	98.75%		
83) 4-Bromofluorobenzene	9.526	95	107926	20.632	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	103.16%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.069	85	255292	89.188	ug/L	# 95
3) Chloromethane	1.216	50	244772	60.192	ug/L	99
4) Vinyl chloride	1.269	62	267449	79.682	ug/L	95
5) Bromomethane	1.504	94	187298	107.329	ug/L	98
6) Chloroethane	1.599	64	152512	80.598	ug/L	98
7) Trichlorofluoromethane	1.714	101	389455	99.393	ug/L	96
10) 1,1-Dichloroethene	2.128	96	230608	97.818	ug/L	# 74
11) Carbon disulfide	2.139	76	763328	91.115	ug/L	97
12) Freon-113	2.176	101	268410	103.437	ug/L	94
15) Methylene chloride	2.679	84	243584	79.425	ug/L	76
17) Acetone	2.742	43	64193	77.929	ug/L	# 87
18) trans-1,2-Dichloroethene	2.852	96	248169	86.153	ug/L	85
19) Methyl acetate	2.894	43	185992	85.502	ug/L	# 94
20) Methyl tert-butyl ether	3.004	73	637356	88.274	ug/L	95
23) 1,1-Dichloroethane	3.576	63	493345	88.802	ug/L	99
28) cis-1,2-Dichloroethene	4.341	96	263482	81.976	ug/L	# 76
31) Cyclohexane	4.593	56	560840	92.137	ug/L	88
32) Chloroform	4.745	83	451788	87.995	ug/L	95
34) Carbon tetrachloride	4.871	117	376513	92.422	ug/L	98
37) 1,1,1-Trichloroethane	4.954	97	431221	100.092	ug/L	# 96

Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N27.D
 Acq On : 22 Jul 2023 03:36 am
 Operator : VOA129:AJK
 Sample : WG1806697-7,31,6.24,5,,b2
 Misc : WG1806697,ICAL19799
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 23 15:30:11 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
 Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2-Butanone	5.128	43	96675	49.759	ug/L	# 39
41) Benzene	5.405	78	939431	85.385	ug/L	94
44) 1,2-Dichloroethane	5.636	62	341542	80.853	ug/L	97
47) Methyl cyclohexane	6.066	83	462199	89.036	ug/L	88
48) Trichloroethene	6.087	95	279809	89.306	ug/L	99
51) 1,2-Dichloropropane	6.617	63	271811	76.482	ug/L	93
54) Bromodichloromethane	6.721	83	339436	82.712	ug/L	98
58) cis-1,3-Dichloropropene	7.356	75	368479	73.436	ug/L	# 87
61) Toluene	7.576	92	568924	74.887	ug/L	98
62) 4-Methyl-2-pentanone	7.922	58	91022	61.953	ug/L	# 87
63) Tetrachloroethene	7.906	166	263994	71.462	ug/L	89
65) trans-1,3-Dichloropropene	7.948	75	333533	69.556	ug/L	89
68) 1,1,2-Trichloroethane	8.069	83	163103	71.331	ug/L	95
69) Chlorodibromomethane	8.205	129	241310	72.912	ug/L	96
71) 1,2-Dibromoethane	8.357	107	196210	70.437	ug/L	99
72) 2-Hexanone	8.562	43	142161	50.604	ug/L	# 88
73) Chlorobenzene	8.745	112	595754	69.471	ug/L	92
74) Ethylbenzene	8.782	91	1062911	74.844	ug/L	100
76) p/m Xylene	8.882	106	783412	142.520	ug/L	98
77) o Xylene	9.159	106	767590	143.417	ug/L	97
78) Styrene	9.191	104	1275480	142.625	ug/L	94
80) Bromoform	9.201	173	166651	70.141	ug/L	96
82) Isopropylbenzene	9.359	105	1043747	71.156	ug/L	98
85) n-Propylbenzene	9.610	91	1178007	67.353	ug/L	99
87) 1,1,2,2-Tetrachloroethane	9.658	83	224147	61.732	ug/L	100
90) 1,3,5-Trimethylbenzene	9.731	105	869389	67.232	ug/L	94
94) tert-Butylbenzene	9.920	119	744925	67.742	ug/L	93
97) 1,2,4-Trimethylbenzene	9.956	105	834331	64.929	ug/L	98
98) sec-Butylbenzene	10.019	105	1093889	68.177	ug/L	99
99) p-Isopropyltoluene	10.103	119	890407	62.562	ug/L	98
100) 1,3-Dichlorobenzene	10.145	146	441665	58.465	ug/L	99
101) 1,4-Dichlorobenzene	10.192	146	433166	56.176	ug/L	98
103) n-Butylbenzene	10.344	91	768737	61.754	ug/L	99
104) 1,2-Dichlorobenzene	10.434	146	426711	59.015	ug/L	99
106) 1,2-Dibromo-3-chloropr...	10.884	155	44015	60.001	ug/L	88
109) 1,2,4-Trichlorobenzene	11.262	180	284954	52.027	ug/L	99
110) Naphthalene	11.440	128	685503	54.021	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
Data File : V29230721N27.D
Acq On : 22 Jul 2023 03:36 am
Operator : VOA129:AJK
Sample : WG1806697-7,31,6.24,5,,b2
Misc : WG1806697,ICAL19799
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 23 15:30:11 2023
Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Mar 09 17:16:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA129\2023\230721N\V29230721N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

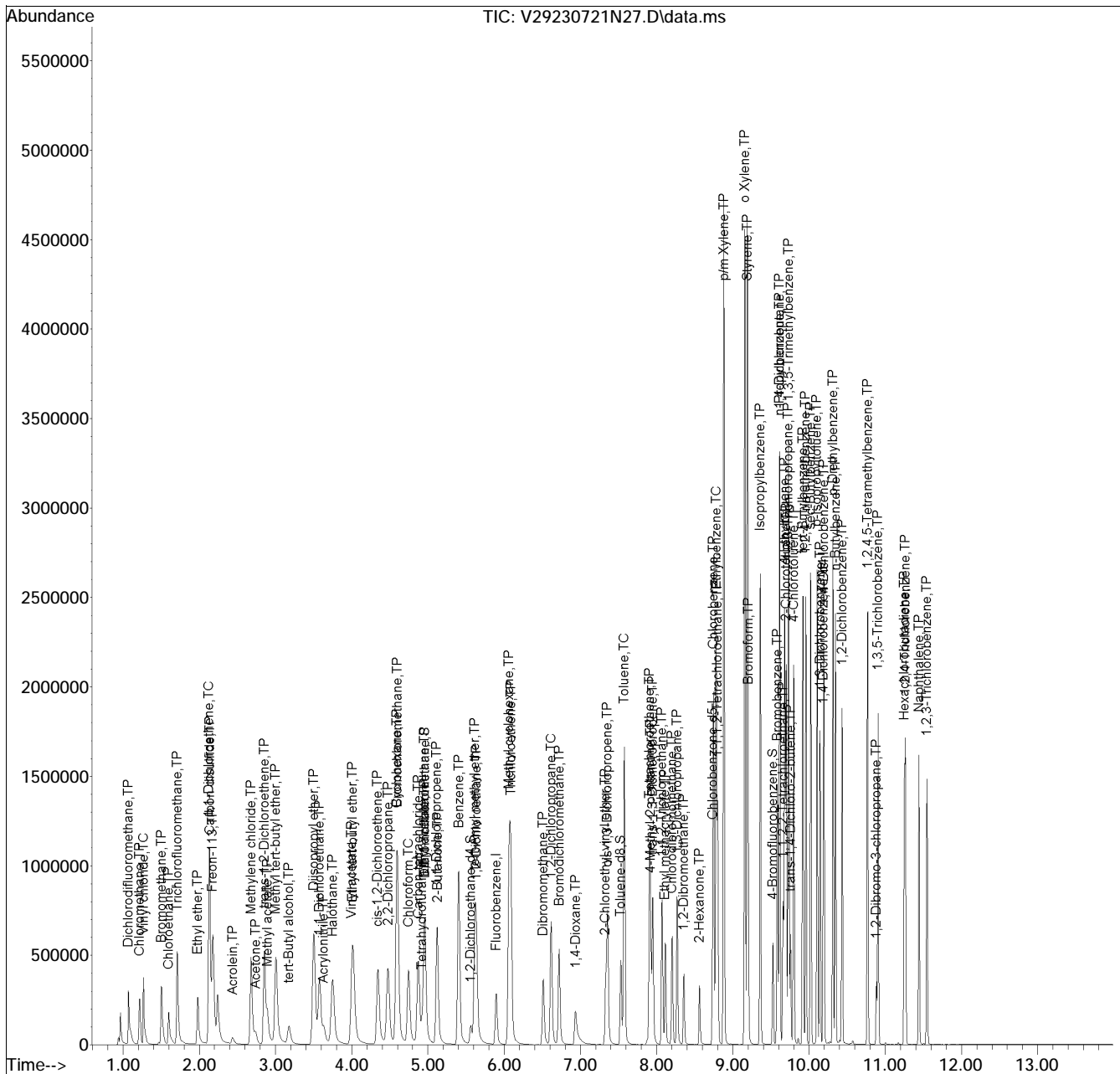
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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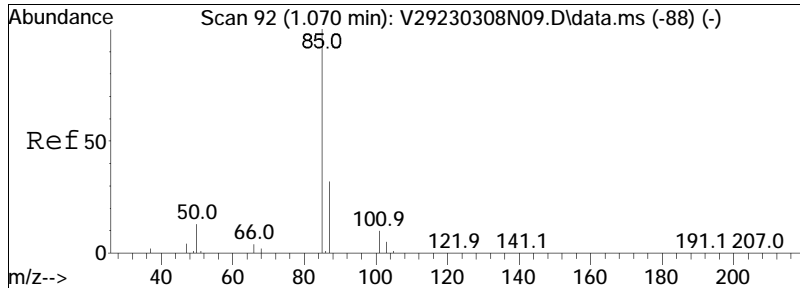
Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2023\230721N\
 Data File : V29230721N27.D
 Acq On : 22 Jul 2023 03:36 am
 Operator : VOA129:AJK
 Sample : WG1806697-7,31,6.24,5,,b2
 Misc : WG1806697,ICAL19799
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 23 15:30:11 2023
 Quant Method : K:\VOA129\2023\230721N\V129_230308N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Mar 09 17:16:29 2023
 Response via : Initial Calibration

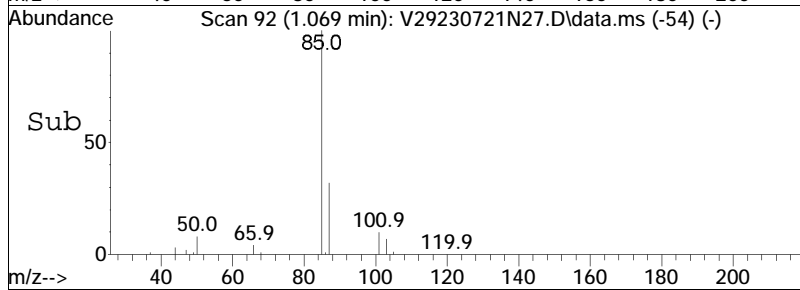
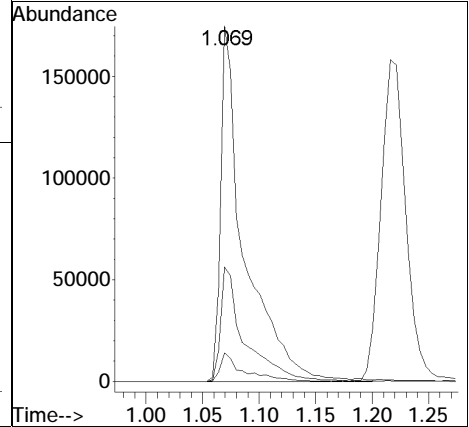
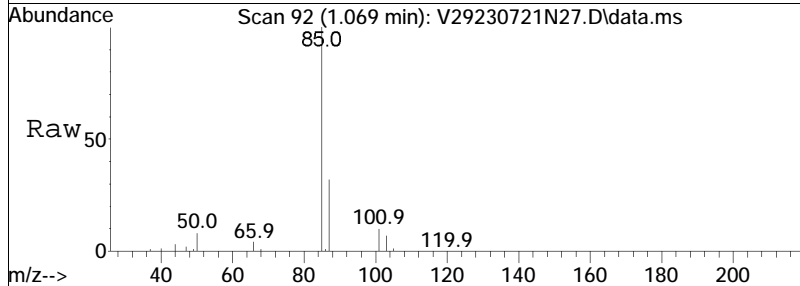
Sub List : 8260-CurveSoil - Megamix plus Diox21N01.D•

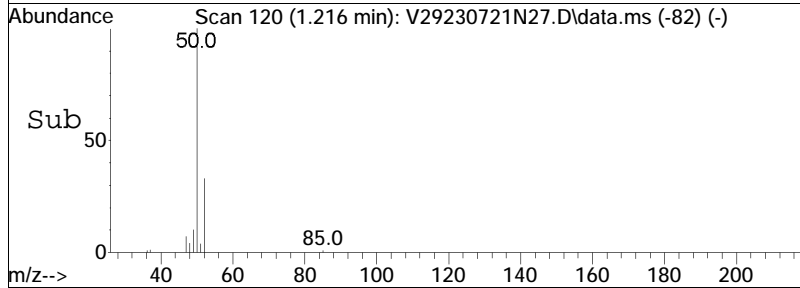
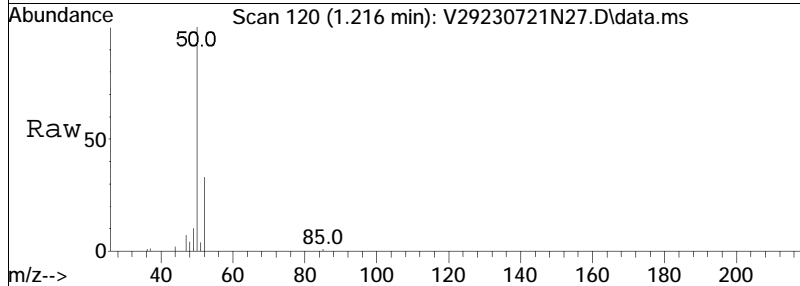
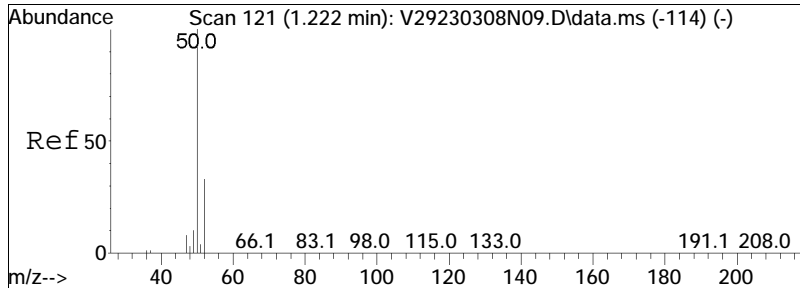




#2
 Dichlorodifluoromethane
 Concen: 89.19 ug/L
 RT: 1.069 min Scan# 92
 Delta R.T. -0.001 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

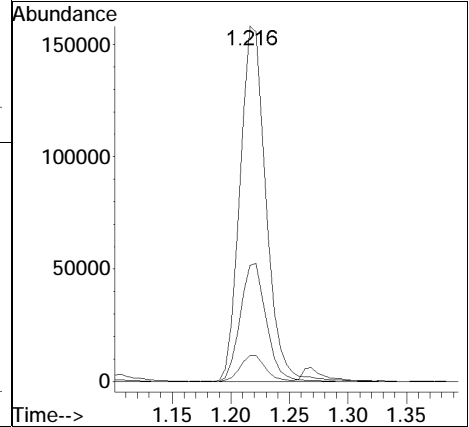
Tgt Ion	Resp	Lower	Upper
85	255292		
87	32.7	21.0	43.6
50	7.8	8.9	18.5#

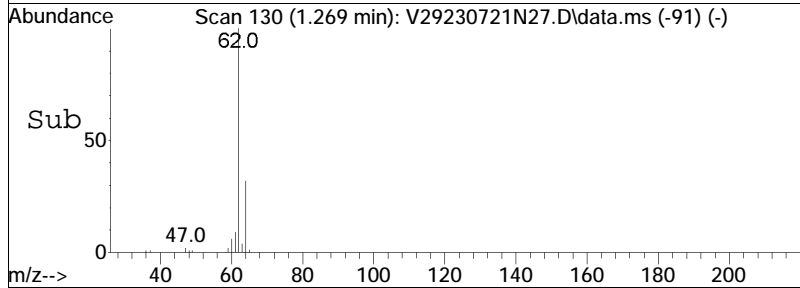
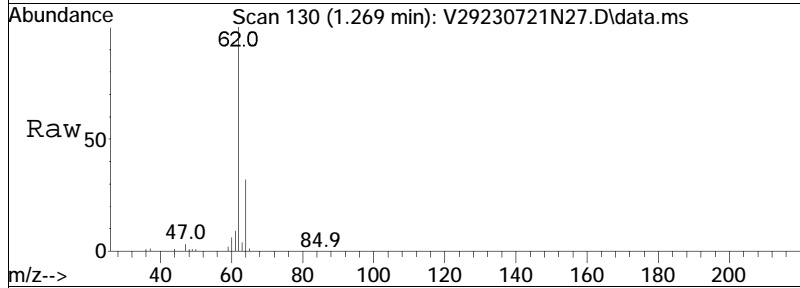
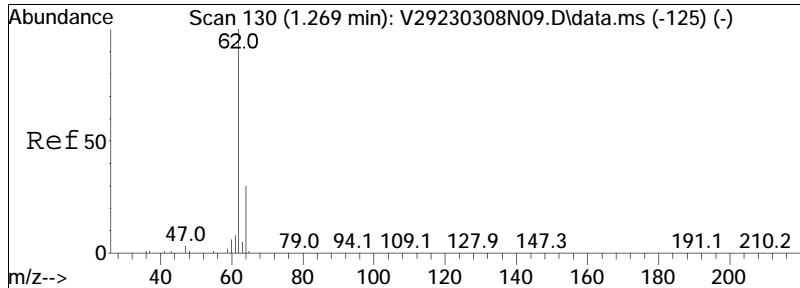




#3
 Chloromethane
 Concen: 60.19 ug/L
 RT: 1.216 min Scan# 120
 Delta R.T. 0.000 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

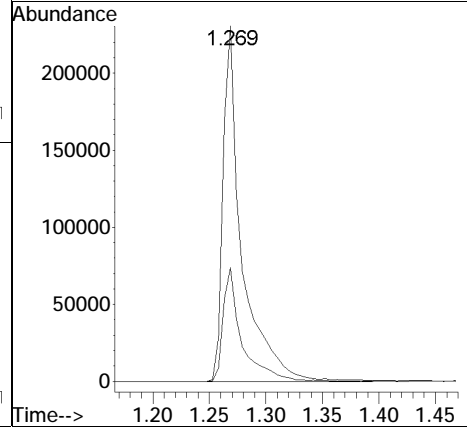
Tgt Ion	Resp	Lower	Upper
50	244772		
50	100		
52	33.0	12.9	52.9
47	7.1	0.0	28.3

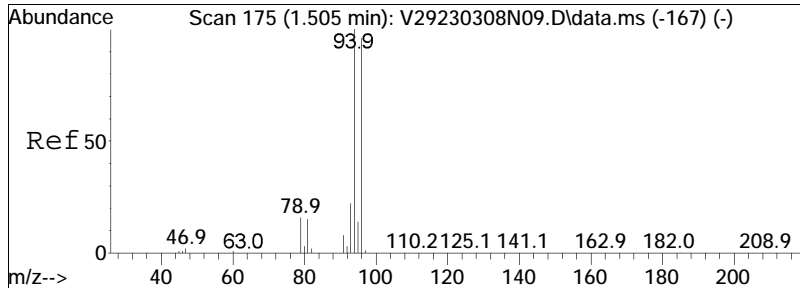




#4
 Vinyl chloride
 Concen: 79.68 ug/L
 RT: 1.269 min Scan# 130
 Delta R.T. 0.005 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

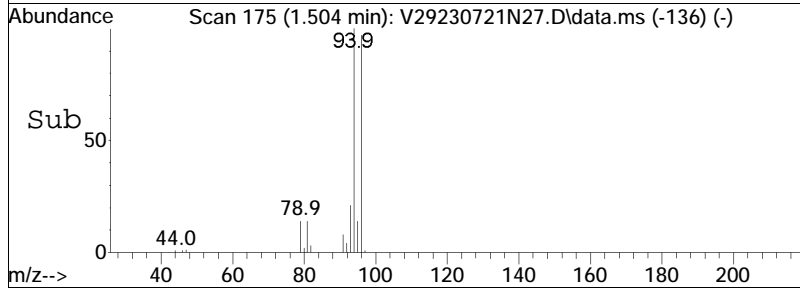
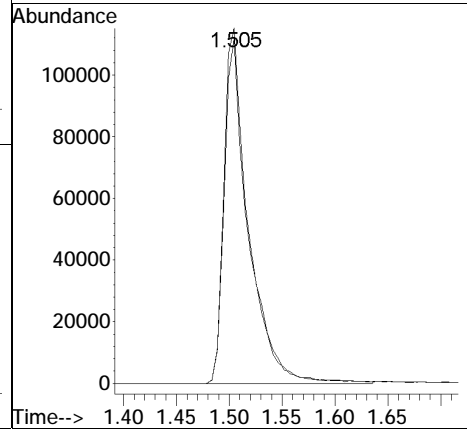
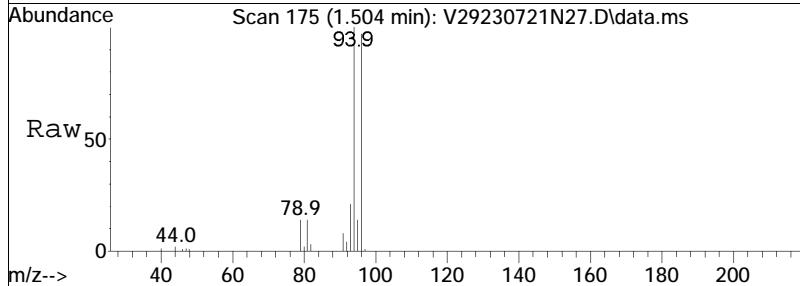
Tgt Ion	Resp	Lower	Upper
62	100		
64	31.7	9.1	49.1

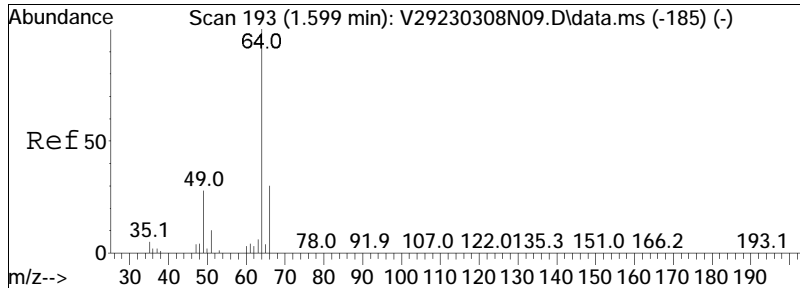




#5
 Bromomethane
 Concen: 107.33 ug/L
 RT: 1.504 min Scan# 175
 Delta R.T. 0.004 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

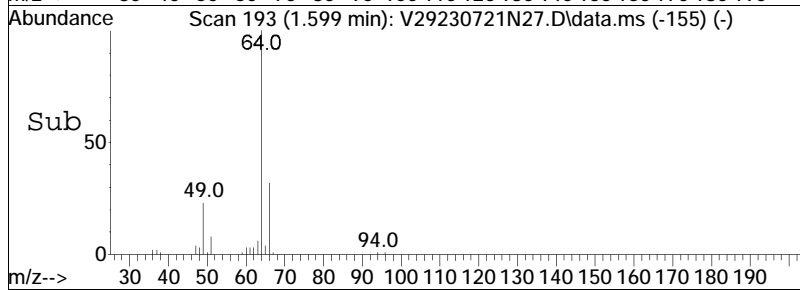
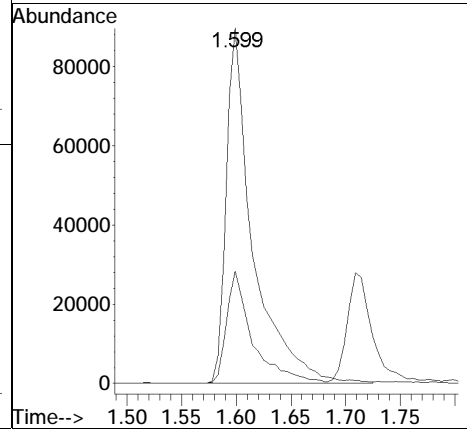
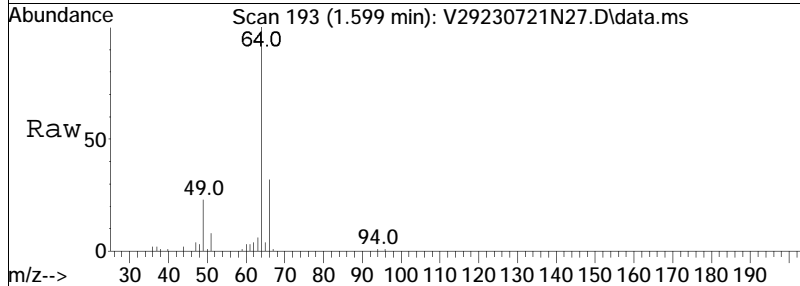
Tgt Ion	Resp	Lower	Upper
94	187298		
94	100		
96	93.3	75.6	115.6

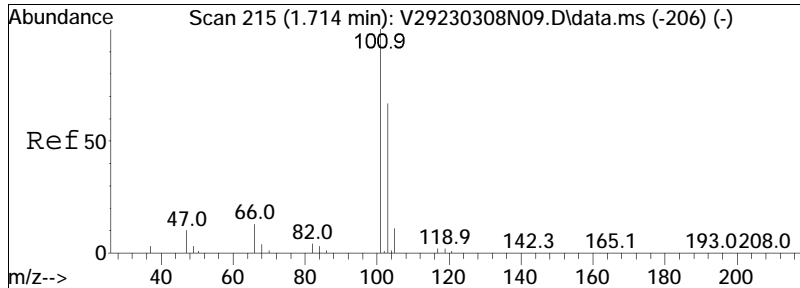




#6
 Chloroethane
 Concen: 80.60 ug/L
 RT: 1.599 min Scan# 193
 Delta R.T. -0.000 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

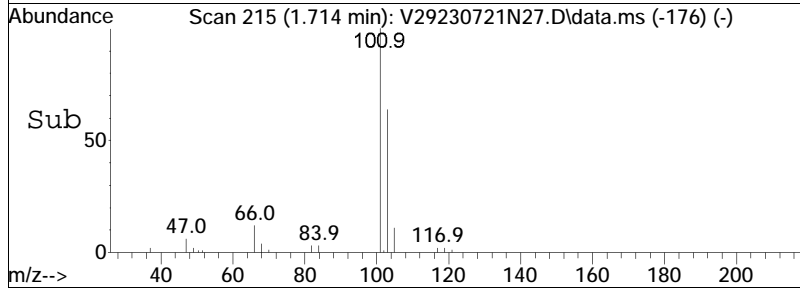
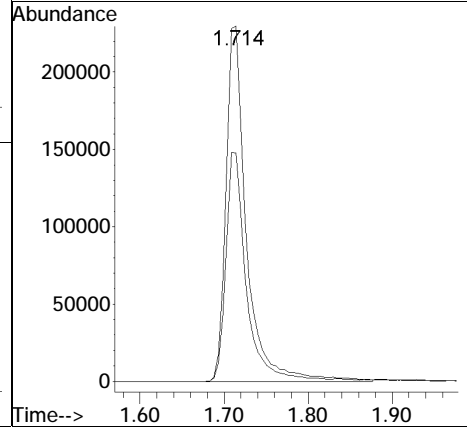
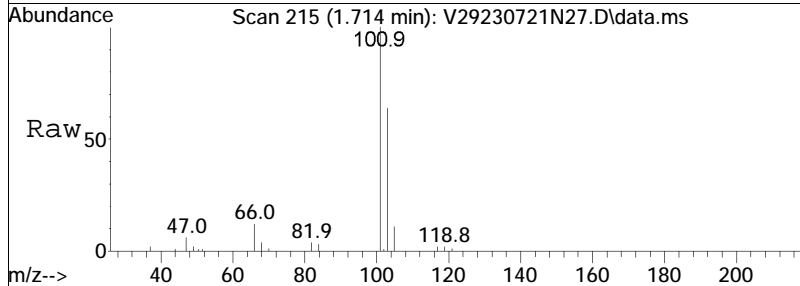
Tgt Ion	Resp	Lower	Upper
64	152512		
66	30.8	9.8	49.8

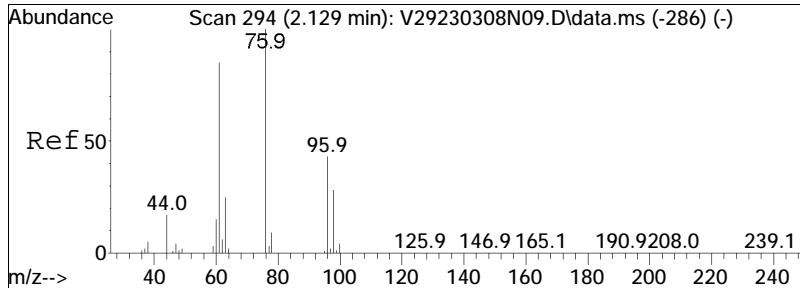




#7
 Trichlorofluoromethane
 Concen: 99.39 ug/L
 RT: 1.714 min Scan# 215
 Delta R.T. 0.005 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

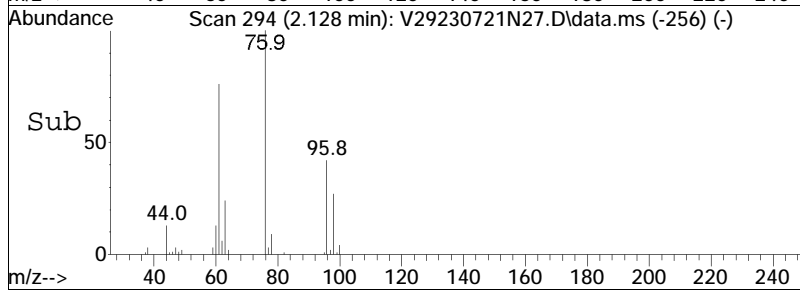
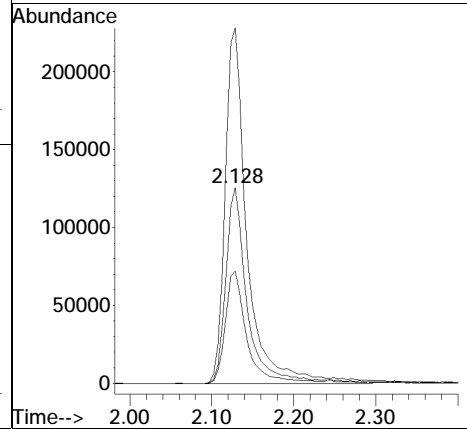
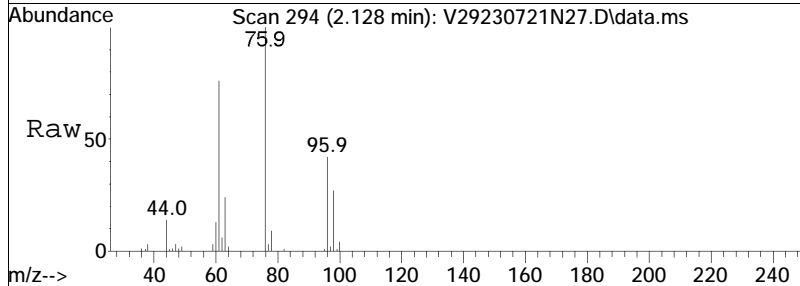
Tgt Ion	Resp	Lower	Upper
101	389455		
101	100		
103	63.9	53.8	80.6

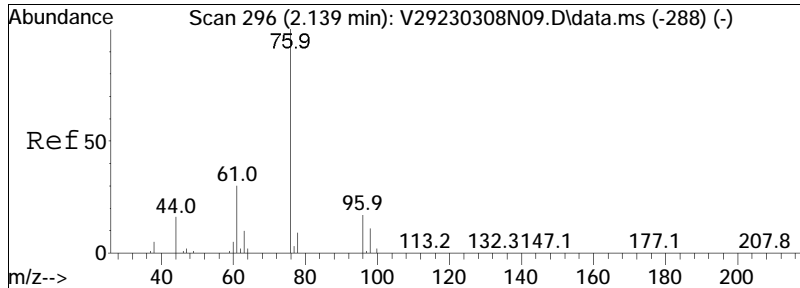




#10
 1,1-Dichloroethene
 Concen: 97.82 ug/L
 RT: 2.128 min Scan# 294
 Delta R.T. -0.001 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

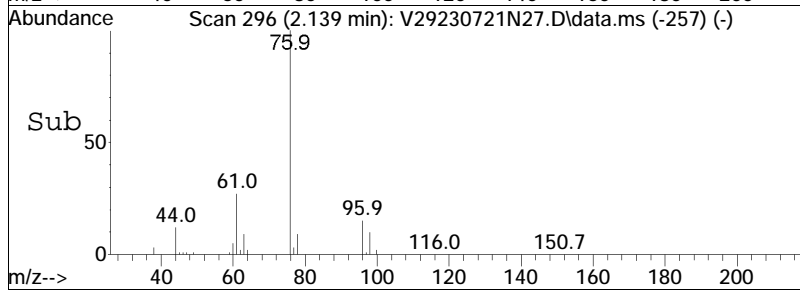
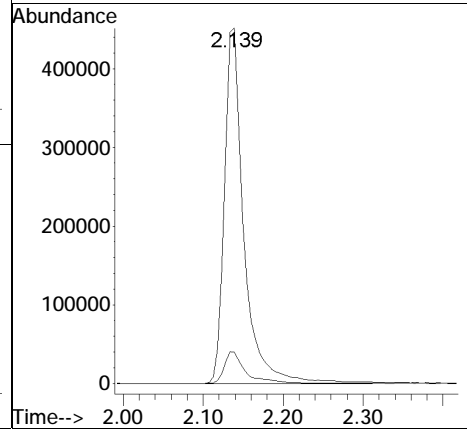
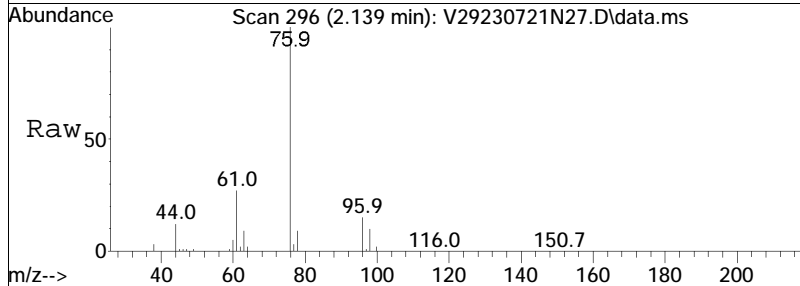
Tgt Ion	Resp	Lower	Upper
96	230608		
96	100		
61	184.8	186.1	279.1#
63	56.6	57.6	86.4#

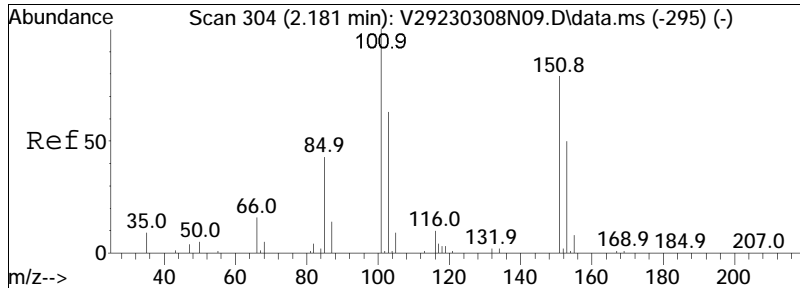




#11
 Carbon disulfide
 Concen: 91.12 ug/L
 RT: 2.139 min Scan# 296
 Delta R.T. 0.005 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

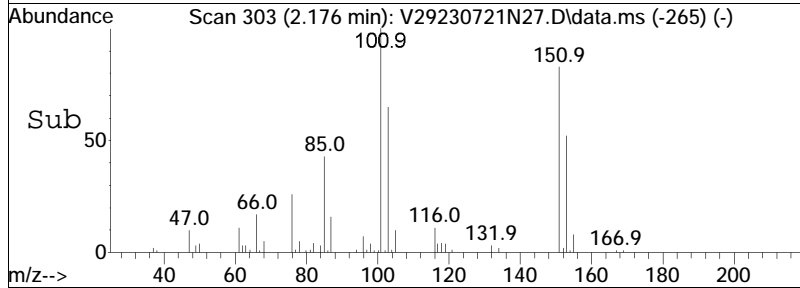
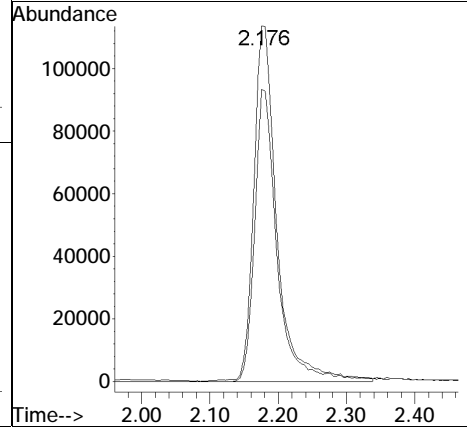
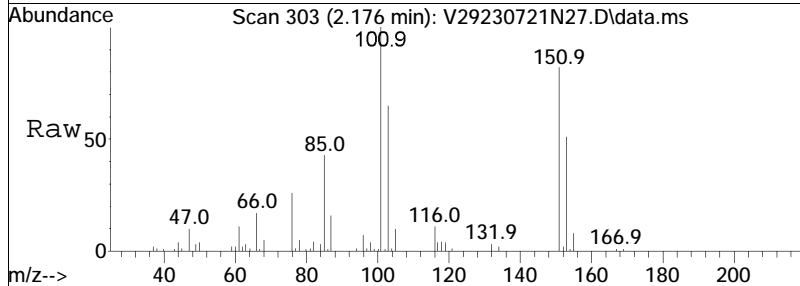
Tgt Ion	Resp	Lower	Upper
76	100		
78	9.9	5.7	11.7

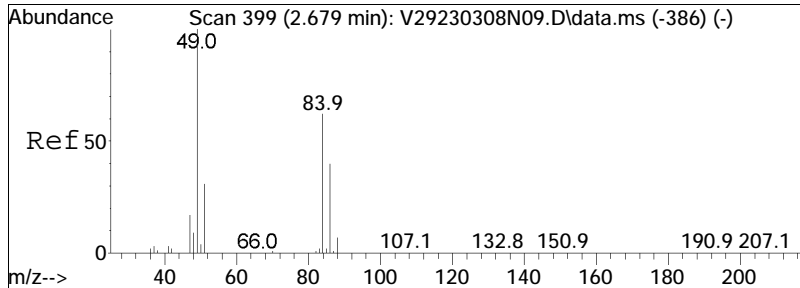




#12
 Freon-113
 Concen: 103.44 ug/L
 RT: 2.176 min Scan# 303
 Delta R.T. -0.000 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

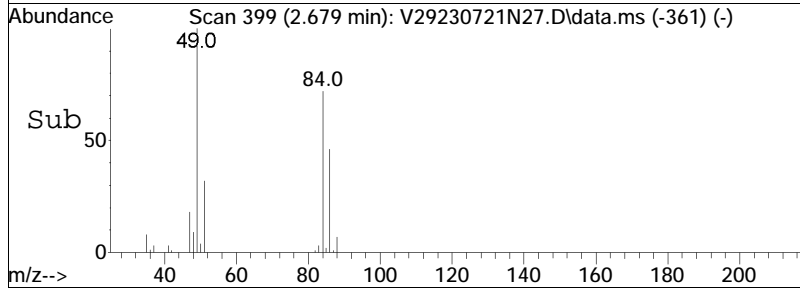
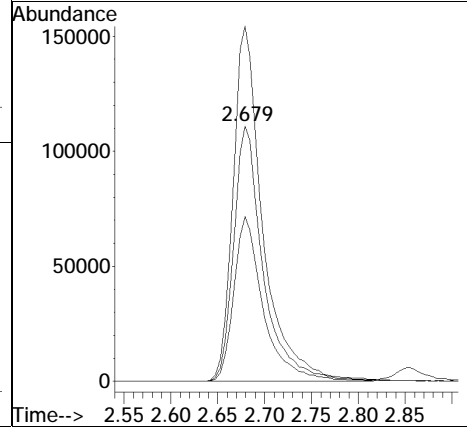
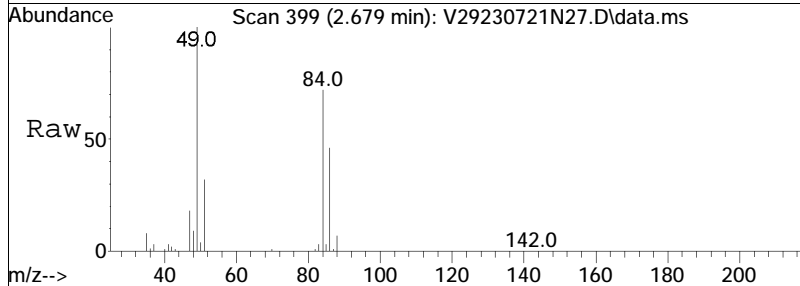
Tgt Ion	Resp	Lower	Upper
101	268410		
101	100		
151	79.8	59.8	89.8

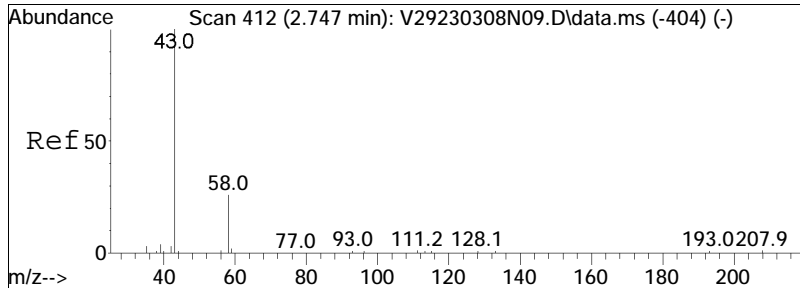




#15
 Methylene chloride
 Concen: 79.42 ug/L
 RT: 2.679 min Scan# 399
 Delta R.T. -0.000 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

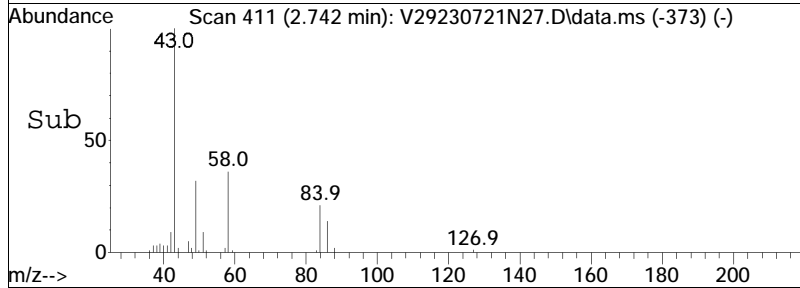
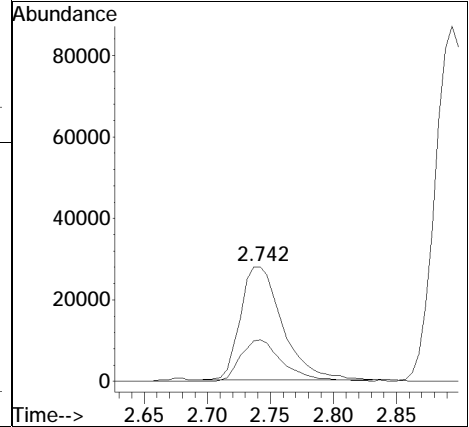
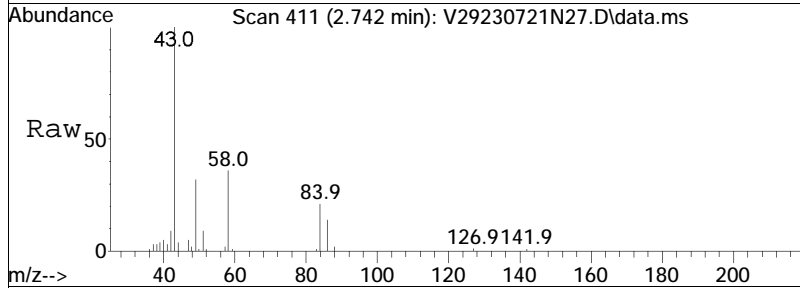
Tgt Ion:	84	Resp:	243584
Ion Ratio	Lower	Upper	
84	100		
86	64.9	40.4	83.8
49	140.2	120.0	249.2

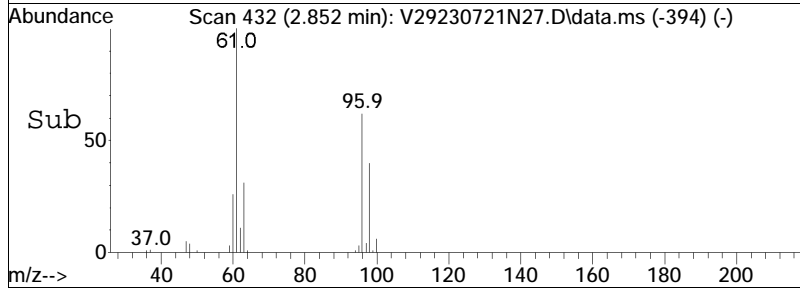
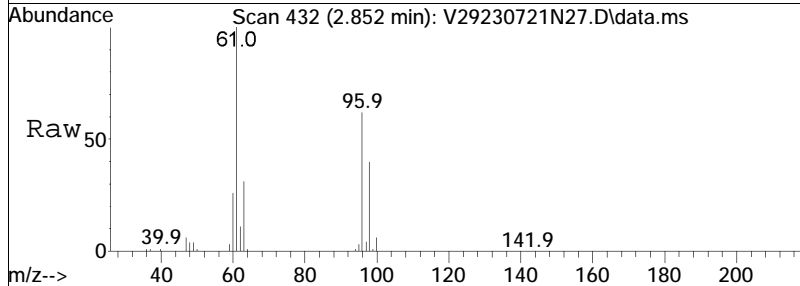
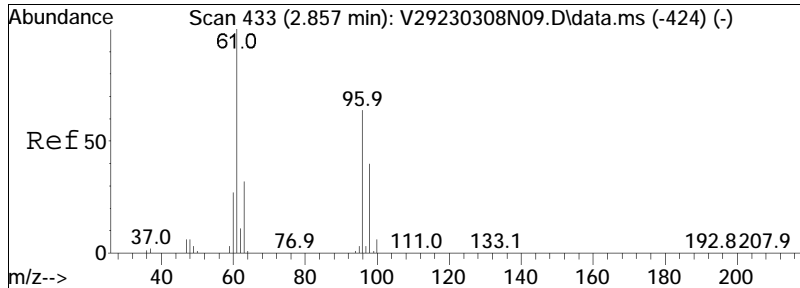




#17
 Acetone
 Concen: 77.93 ug/L
 RT: 2.742 min Scan# 411
 Delta R.T. -0.000 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

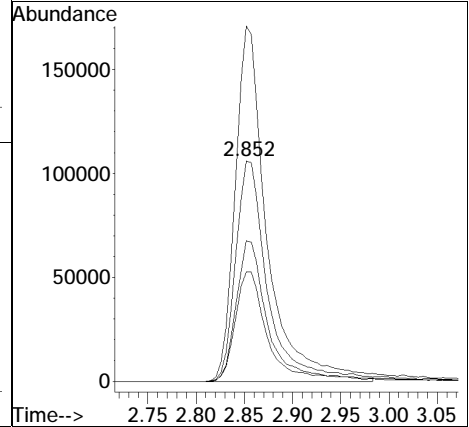
Tgt Ion	Resp	Lower	Upper
43	100		
58	37.4	24.2	36.4#

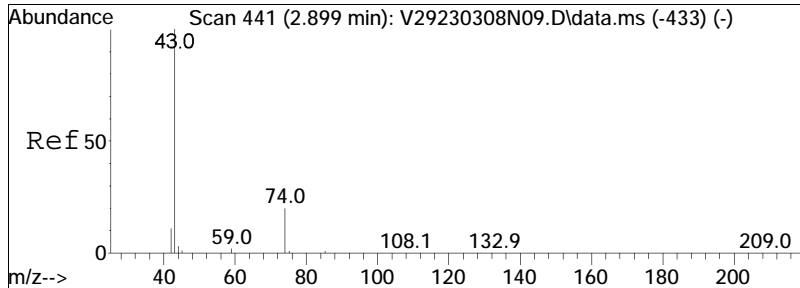




#18
 trans-1,2-Dichloroethene
 Concen: 86.15 ug/L
 RT: 2.852 min Scan# 432
 Delta R.T. -0.000 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

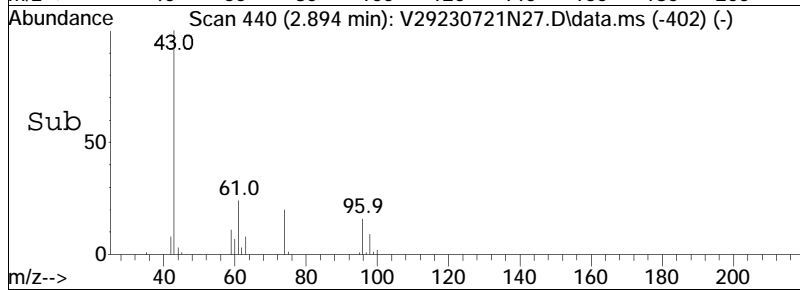
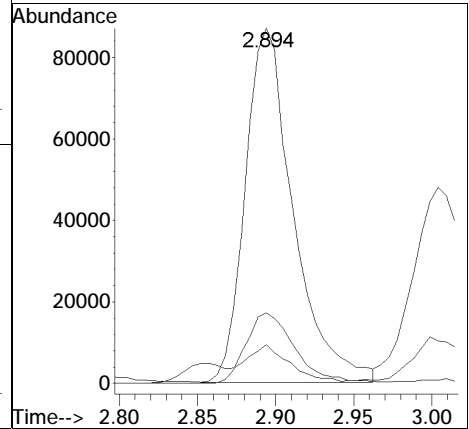
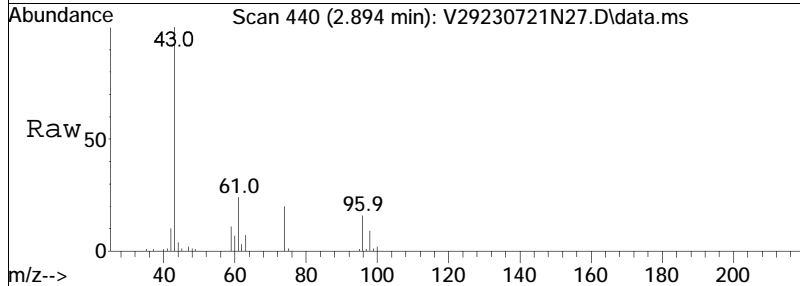
Tgt Ion	Resp	Lower	Upper
96	248169		
96	100		
61	160.5	124.0	257.6
98	64.2	41.2	85.6
63	50.1	38.4	79.7

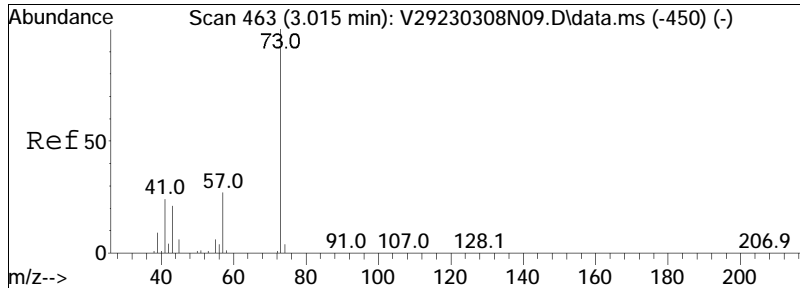




#19
 Methyl acetate
 Concen: 85.50 ug/L
 RT: 2.894 min Scan# 440
 Delta R.T. -0.000 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

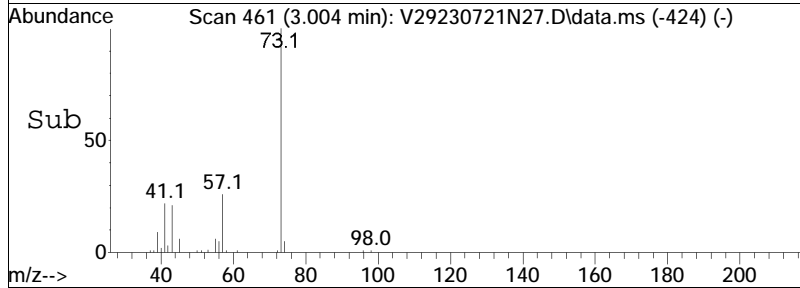
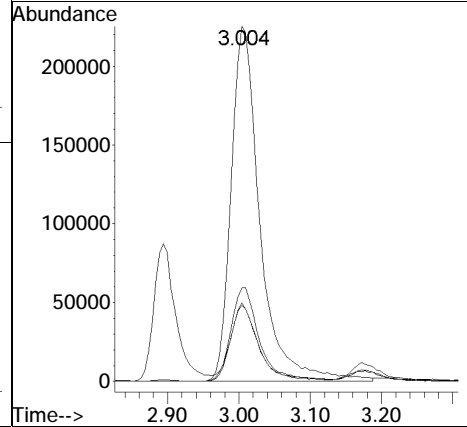
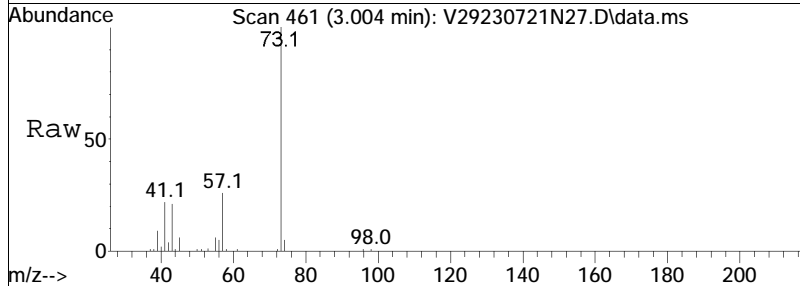
Tgt Ion	Resp	Lower	Upper
43	185992		
43	100		
74	20.1	14.2	21.4
59	9.4	5.0	7.6#

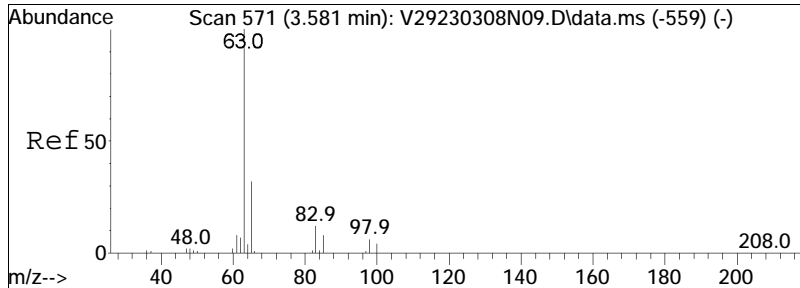




#20
 Methyl tert-butyl ether
 Concen: 88.27 ug/L
 RT: 3.004 min Scan# 461
 Delta R.T. -0.006 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

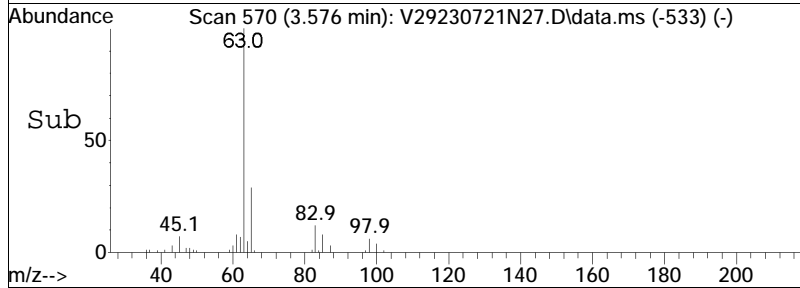
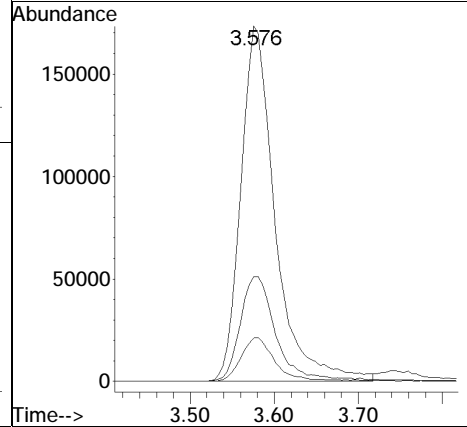
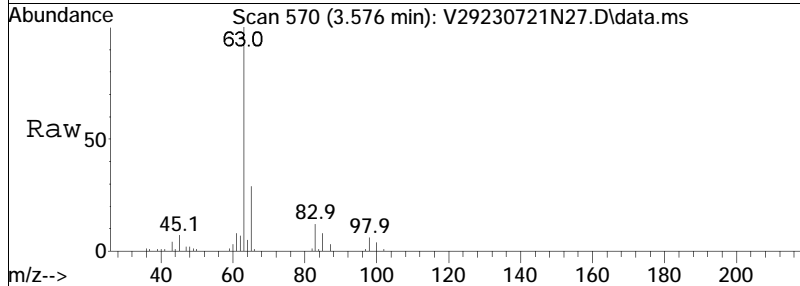
Tgt Ion	Resp	Lower	Upper
73	100		
57	26.1	17.5	36.3
43	19.6	15.3	31.9
41	20.9	15.3	31.7

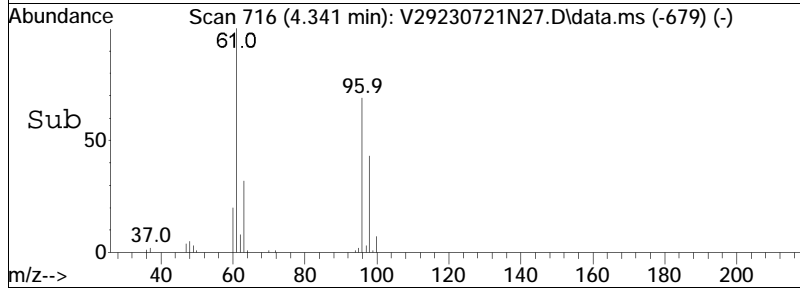
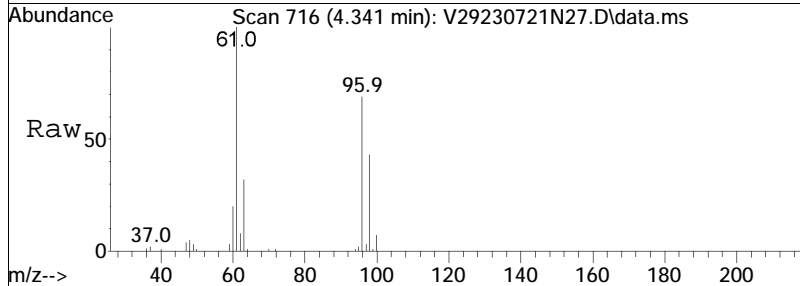
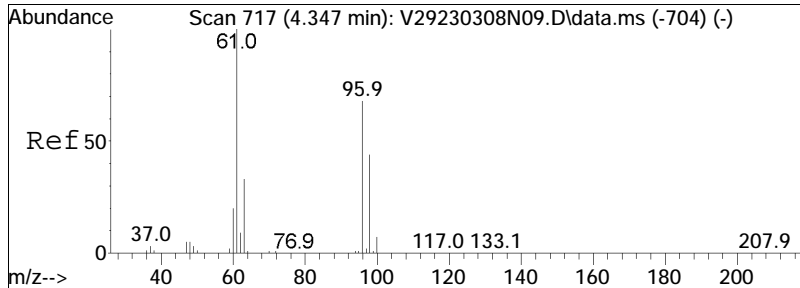




#23
 1,1-Dichloroethane
 Concen: 88.80 ug/L
 RT: 3.576 min Scan# 570
 Delta R.T. -0.005 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

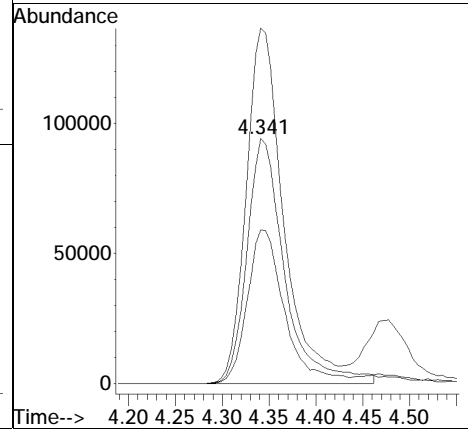
Tgt Ion	Resp	Lower	Upper
63	493345		
65	30.8	11.0	51.0
83	12.1	0.0	31.8

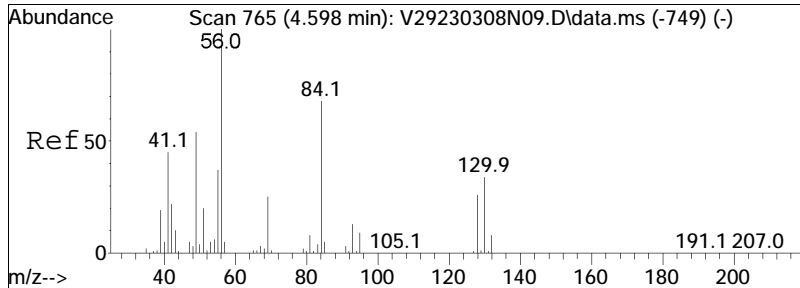




#28
 cis-1,2-Dichloroethene
 Concen: 81.98 ug/L
 RT: 4.341 min Scan# 716
 Delta R.T. -0.006 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

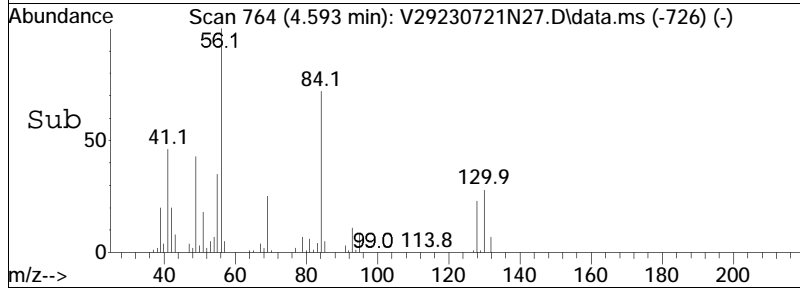
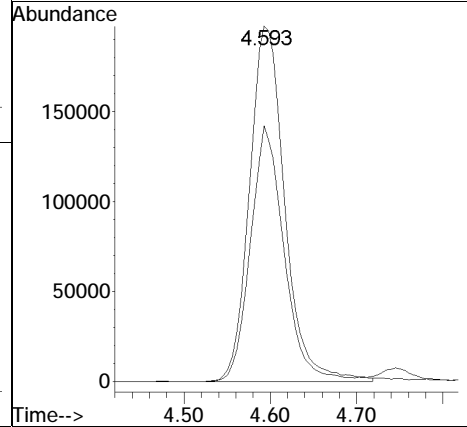
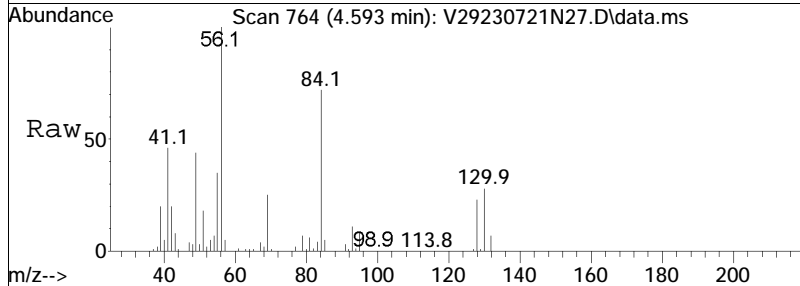
Tgt Ion	Resp	Lower	Upper
96	263482		
96	100		
61	142.5	149.4	224.2#
98	62.0	53.4	80.2

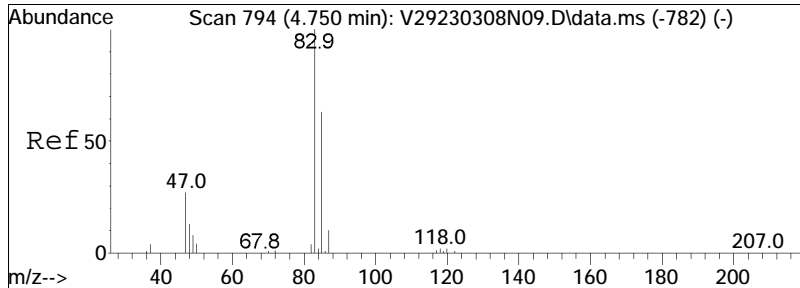




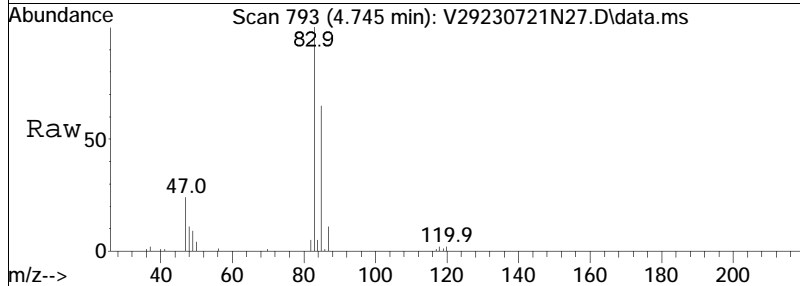
#31
 Cyclohexane
 Concen: 92.14 ug/L
 RT: 4.593 min Scan# 764
 Delta R.T. -0.000 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

Tgt Ion:	Resp:	Lower	Upper
56	100		
84	68.3	38.4	79.8

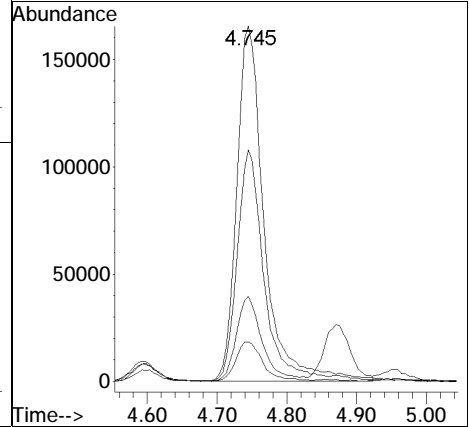
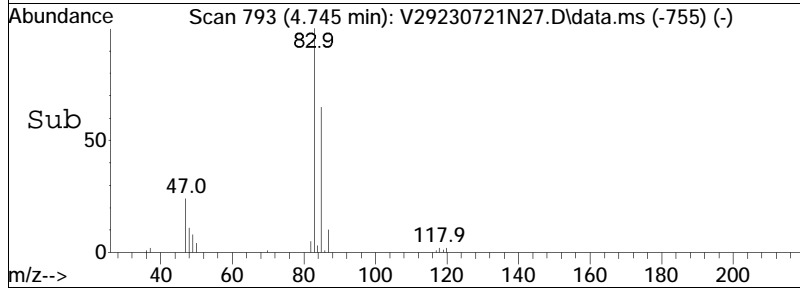


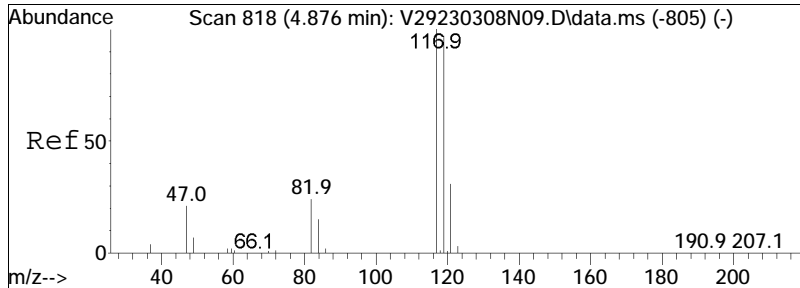


#32
 Chloroform
 Concen: 87.99 ug/L
 RT: 4.745 min Scan# 793
 Delta R.T. -0.000 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

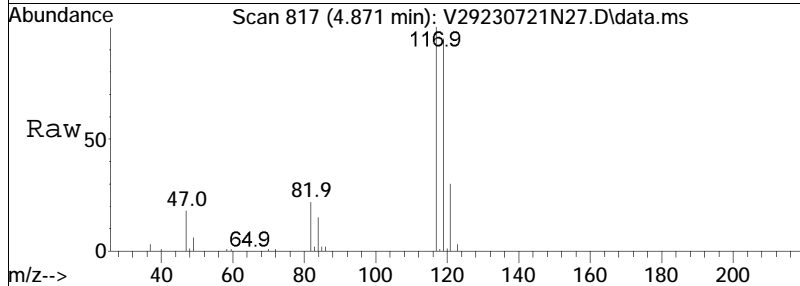


Tgt Ion	Resp	Lower	Upper
83	451788		
83	100		
85	63.5	41.5	86.1
47	22.1	19.0	39.4
48	11.1	9.9	20.5

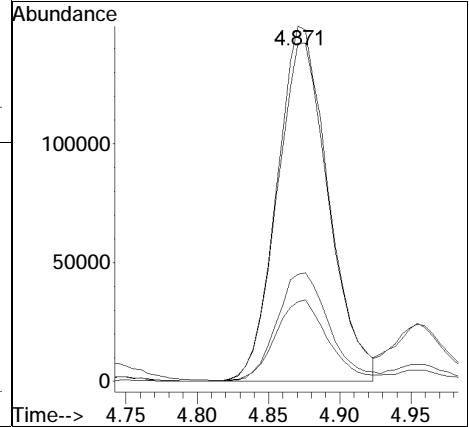
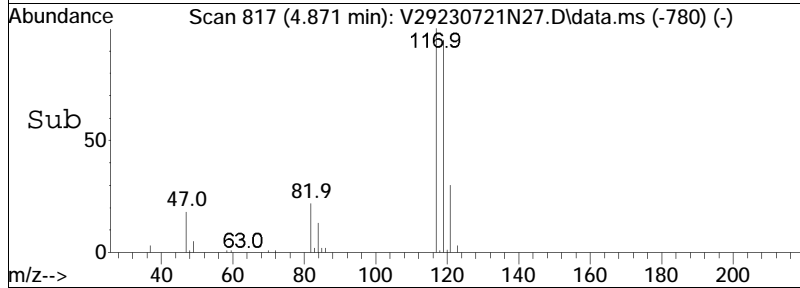


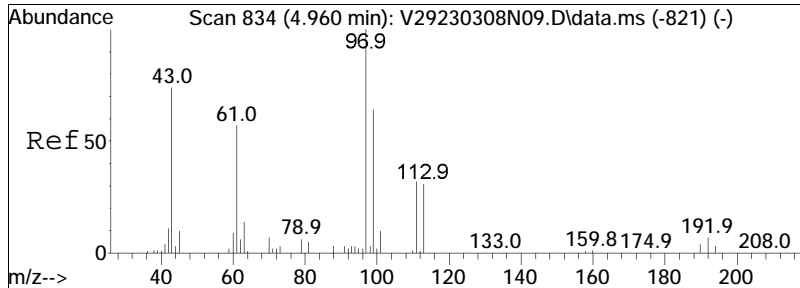


#34
 Carbon tetrachloride
 Concen: 92.42 ug/L
 RT: 4.871 min Scan# 817
 Delta R.T. -0.005 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am



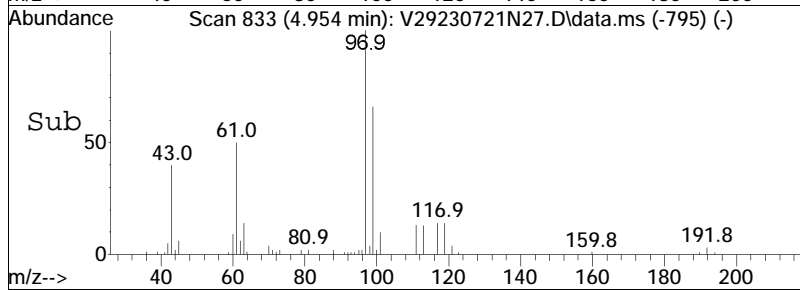
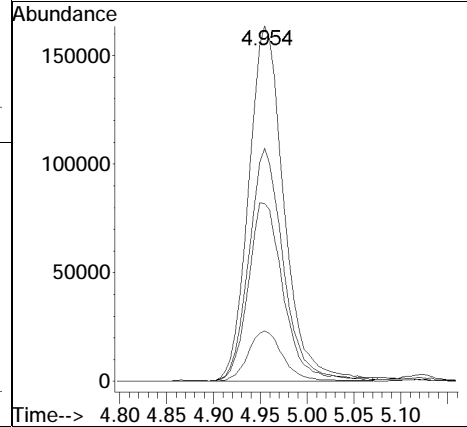
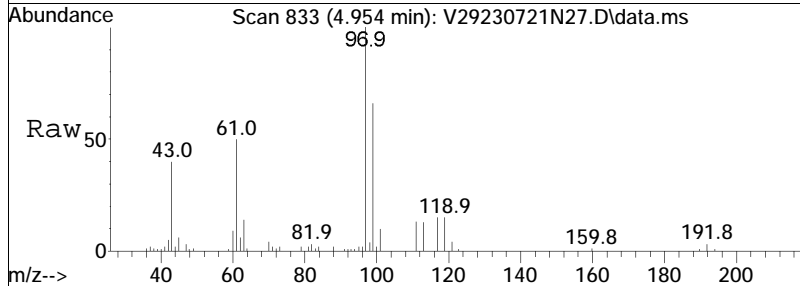
Tgt Ion	Resp	Lower	Upper
117	376513		
117	100		
119	95.7	62.4	129.6
121	31.2	19.5	40.5
82	23.3	17.0	35.4

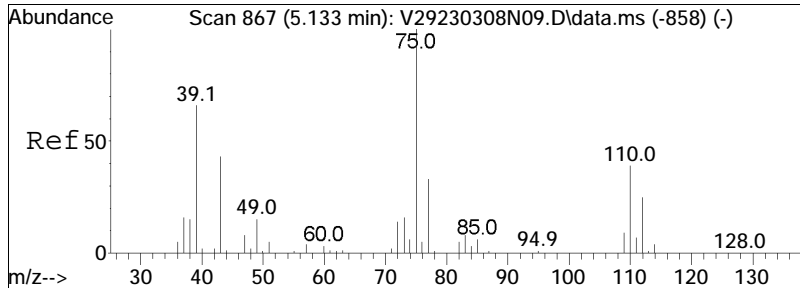




#37
 1,1,1-Trichloroethane
 Concen: 100.09 ug/L
 RT: 4.954 min Scan# 833
 Delta R.T. -0.001 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

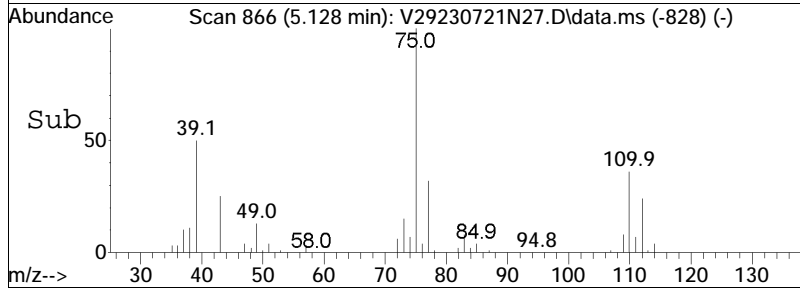
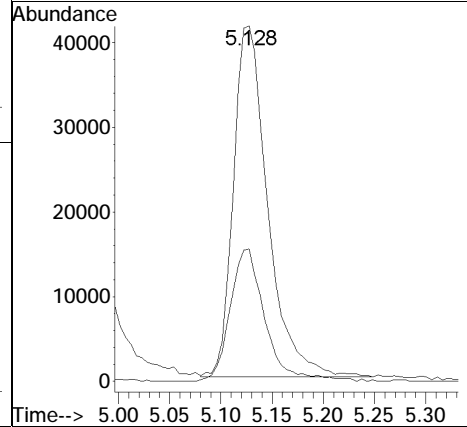
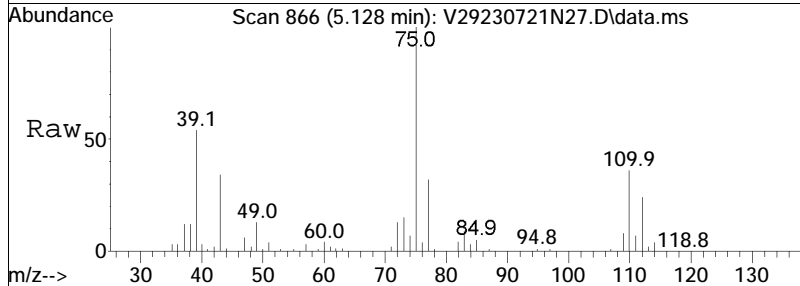
Tgt Ion	Resp	Lower	Upper
97	431221		
97	100		
99	63.7	40.7	84.5
61	50.4	35.4	73.4
63	14.2	5.0	10.4#

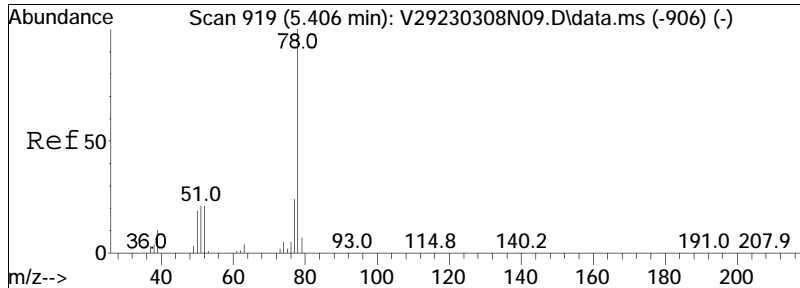




#39
 2-Butanone
 Concen: 49.76 ug/L
 RT: 5.128 min Scan# 866
 Delta R.T. -0.000 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

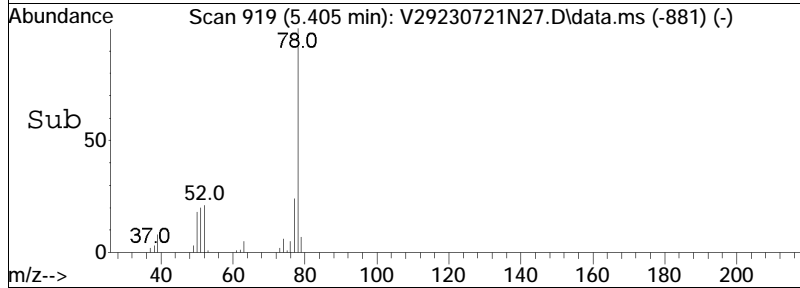
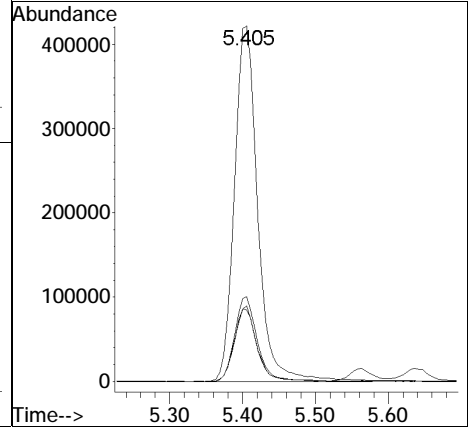
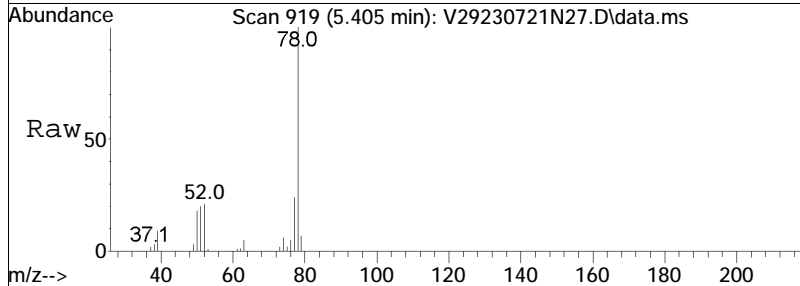
Tgt Ion	Resp	Lower	Upper
43	100		
72	38.4	10.9	16.3#

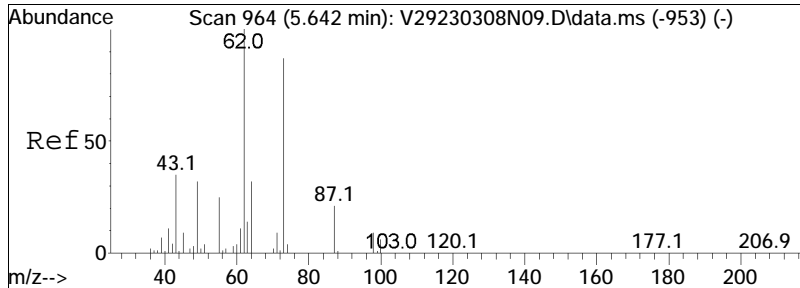




#41
 Benzene
 Concen: 85.38 ug/L
 RT: 5.405 min Scan# 919
 Delta R.T. -0.001 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

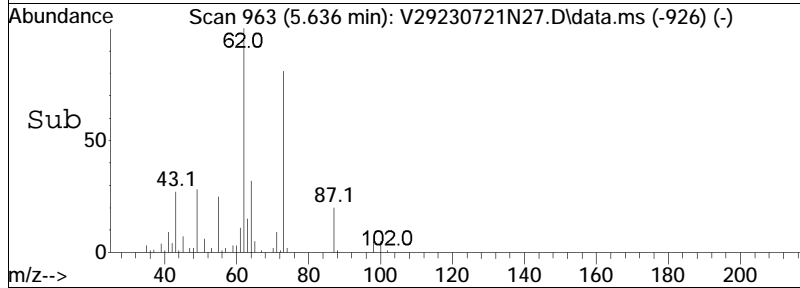
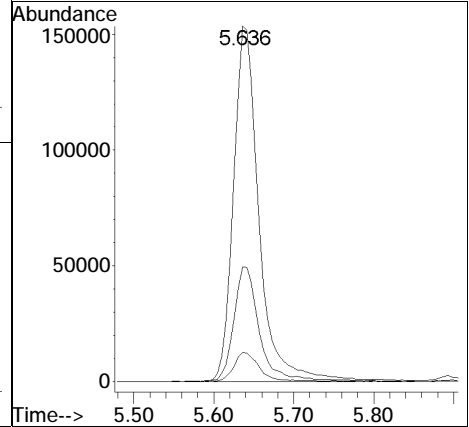
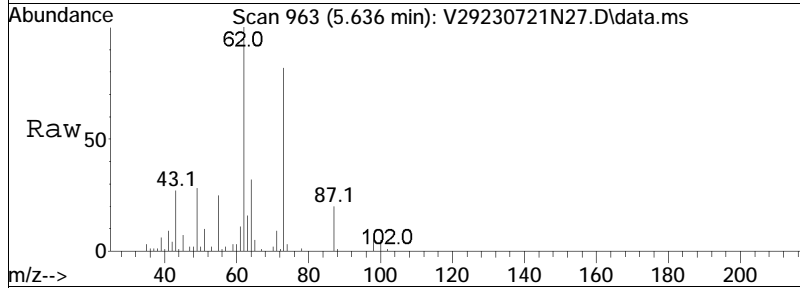
Tgt Ion	Resp	Lower	Upper
78	939431		
77	23.1	15.7	32.7
51	19.9	16.0	33.2
52	20.4	15.3	31.9

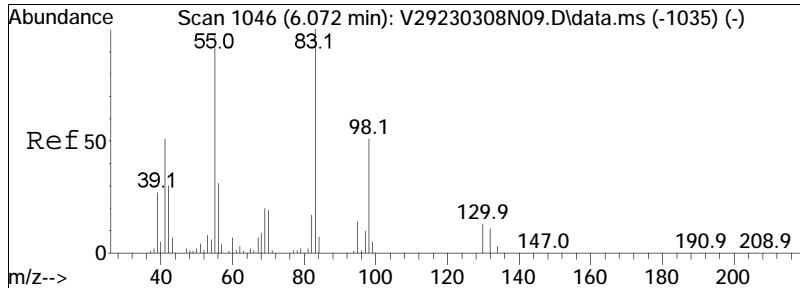




#44
 1,2-Dichloroethane
 Concen: 80.85 ug/L
 RT: 5.636 min Scan# 963
 Delta R.T. -0.006 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

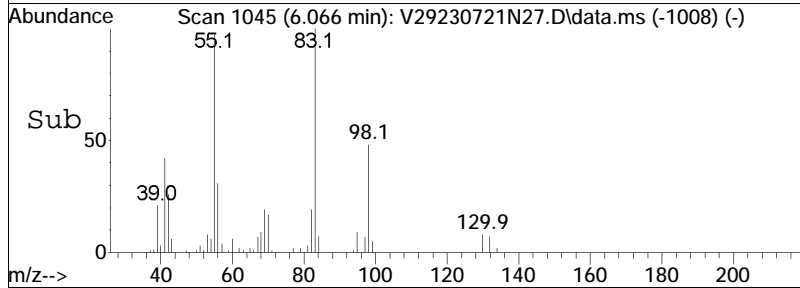
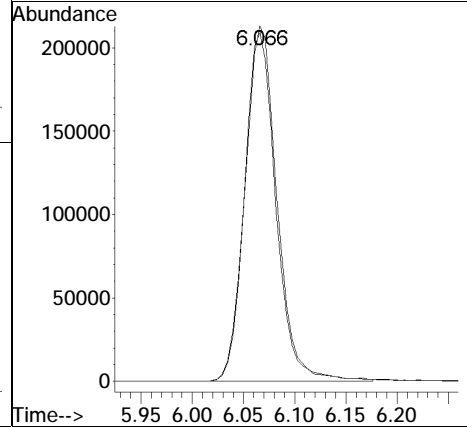
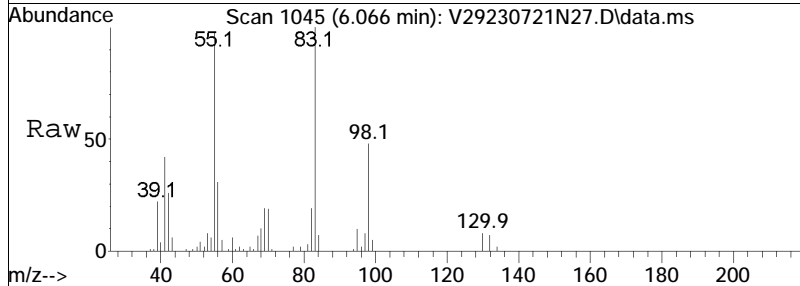
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
62	100		
64	32.4	11.2	51.2
98	8.1	0.0	26.1

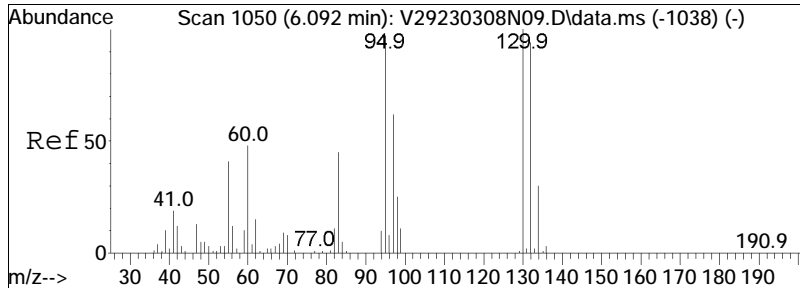




#47
 Methyl cyclohexane
 Concen: 89.04 ug/L
 RT: 6.066 min Scan# 1045
 Delta R.T. -0.006 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

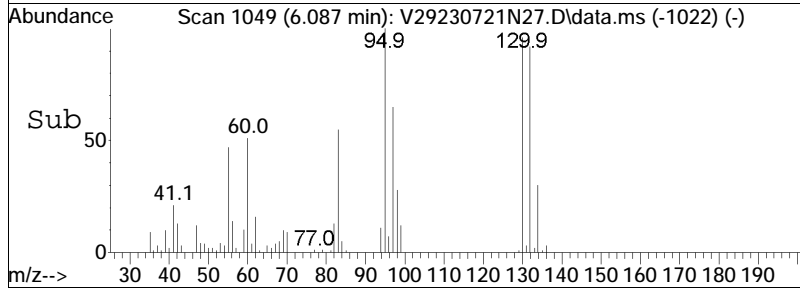
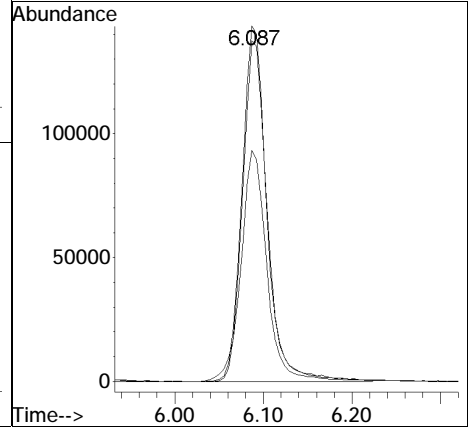
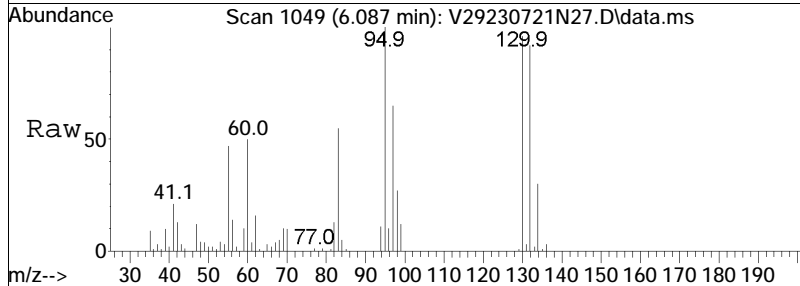
Tgt Ion:	83	Resp:	462199
Ion Ratio	Lower	Upper	
83	100		
55	97.6	88.3	132.5

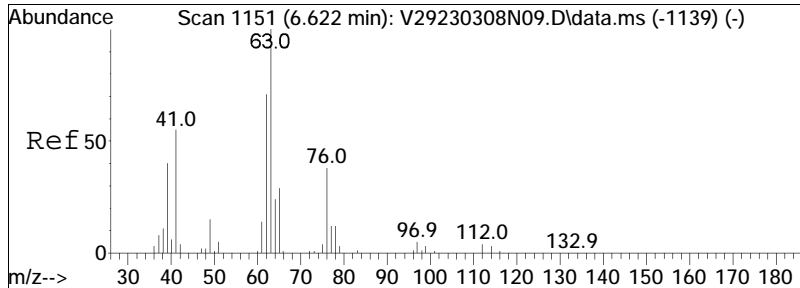




#48
 Trichloroethene
 Concen: 89.31 ug/L
 RT: 6.087 min Scan# 1049
 Delta R.T. -0.006 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

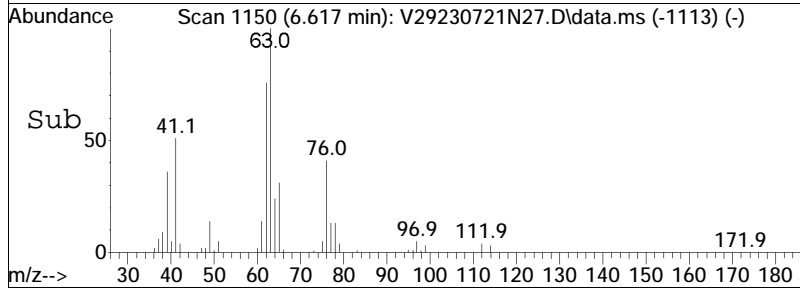
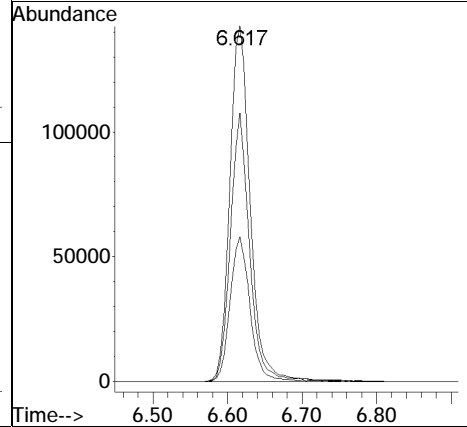
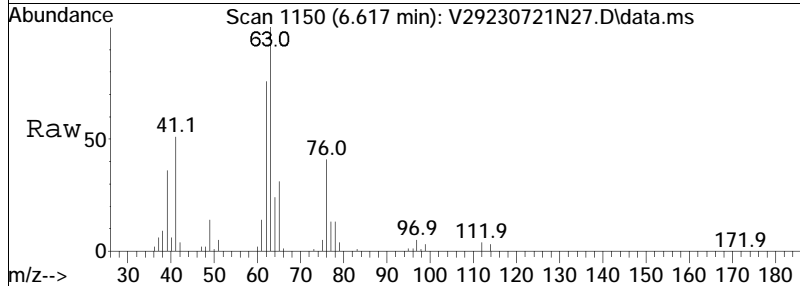
Tgt Ion	Resp	Lower	Upper
95	279809		
95	100		
97	67.6	55.5	83.3
130	96.3	76.6	115.0

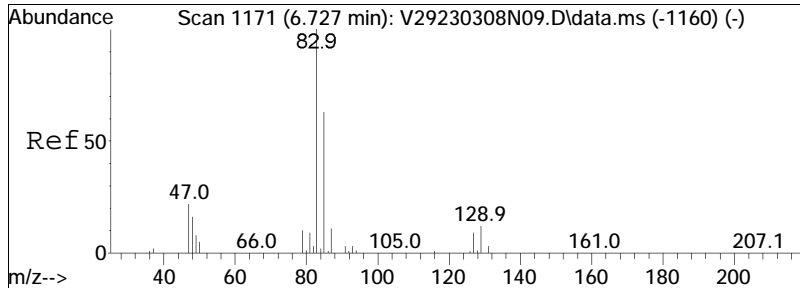




#51
 1,2-Dichloropropane
 Concen: 76.48 ug/L
 RT: 6.617 min Scan# 1150
 Delta R.T. -0.005 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

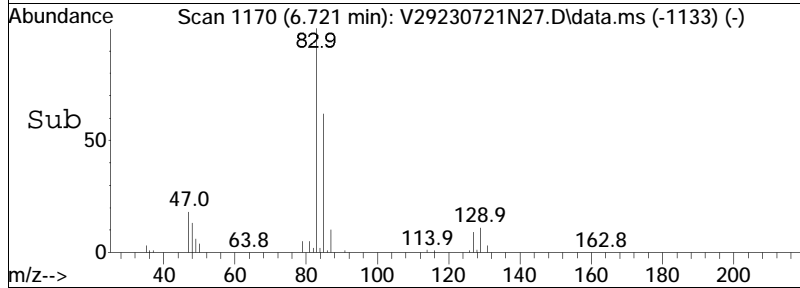
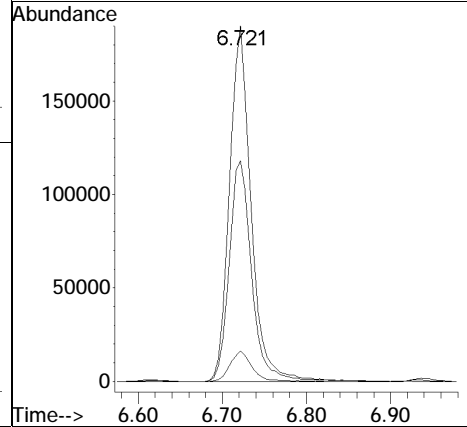
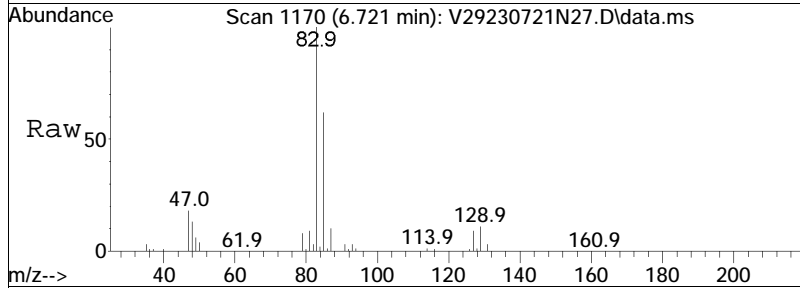
Tgt Ion:	63	Resp:	271811
Ion Ratio	Lower	Upper	
63	100		
62	70.5	58.6	87.8
76	39.6	38.0	57.0

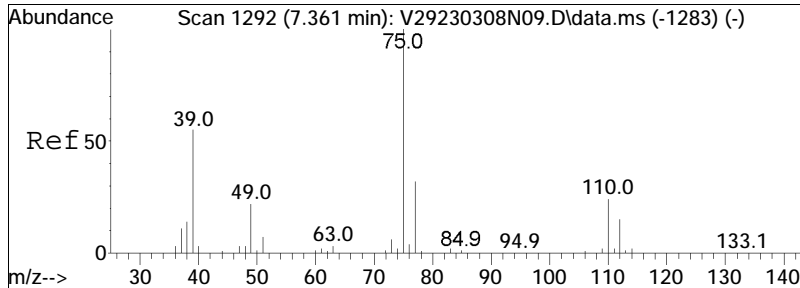




#54
 Bromodichloromethane
 Concen: 82.71 ug/L
 RT: 6.721 min Scan# 1170
 Delta R.T. -0.006 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

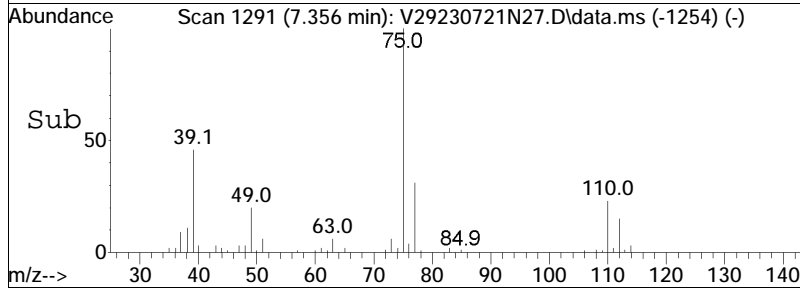
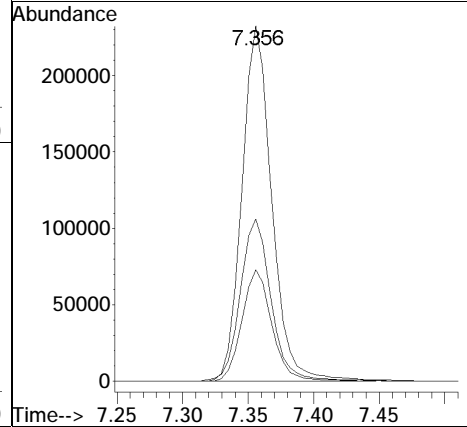
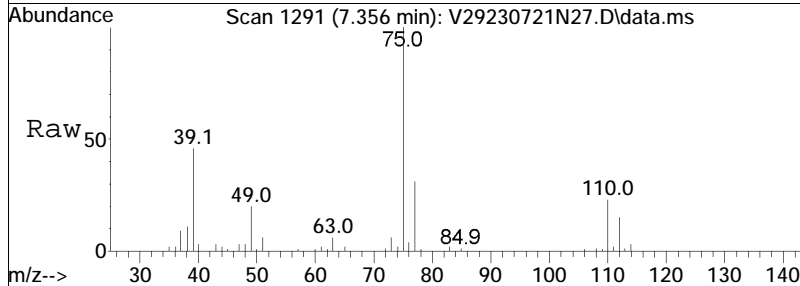
Tgt Ion	Resp	Lower	Upper
83	339436		
83	100		
85	64.3	52.3	78.5
127	8.6	6.2	9.4

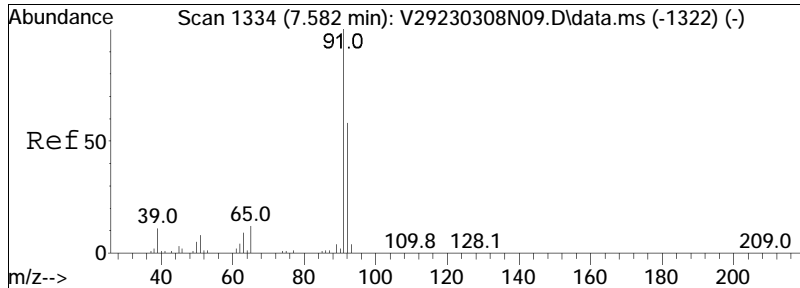




#58
 cis-1,3-Dichloropropene
 Concen: 73.44 ug/L
 RT: 7.356 min Scan# 1291
 Delta R.T. -0.005 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

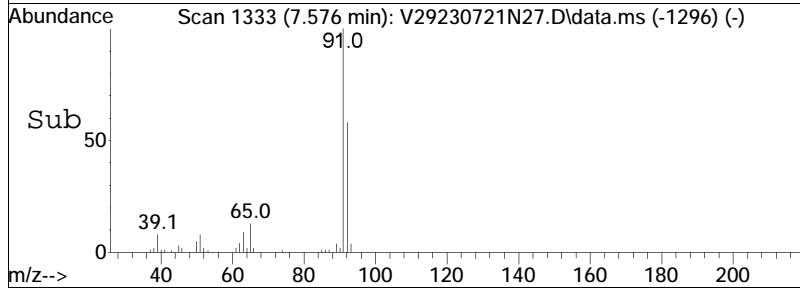
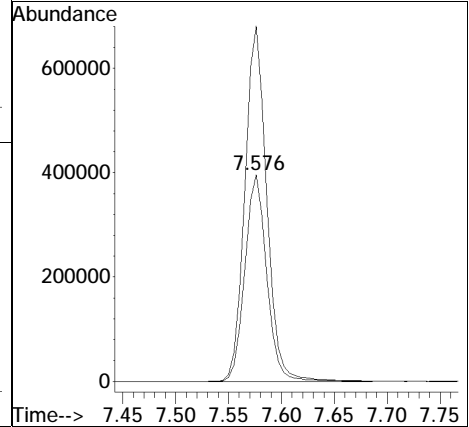
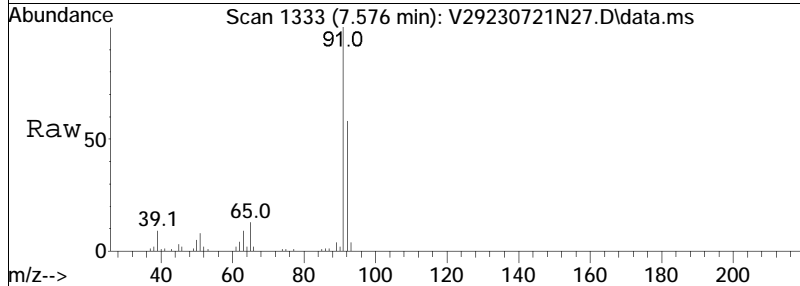
Tgt Ion:	75	Resp:	368479
Ion Ratio	Lower	Upper	
75	100		
77	31.8	25.0	37.4
39	47.5	50.1	75.1#

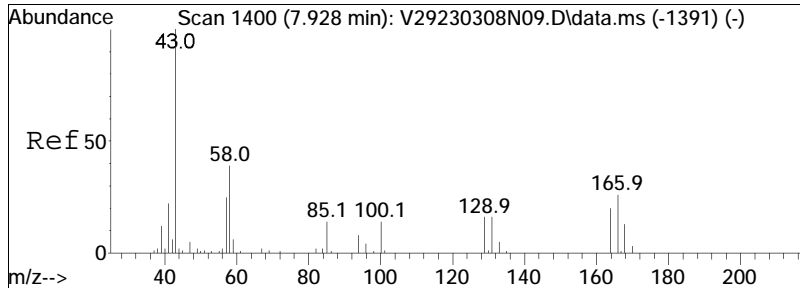




#61
 Toluene
 Concen: 74.89 ug/L
 RT: 7.576 min Scan# 1333
 Delta R.T. -0.006 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

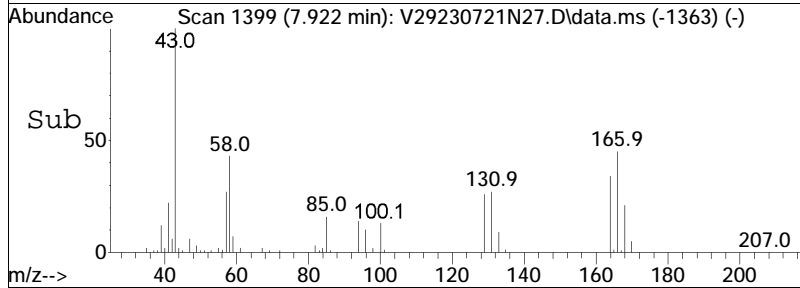
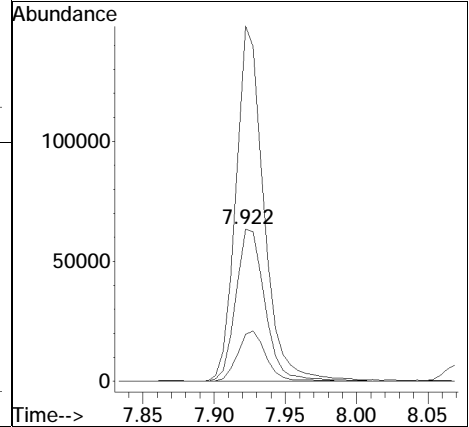
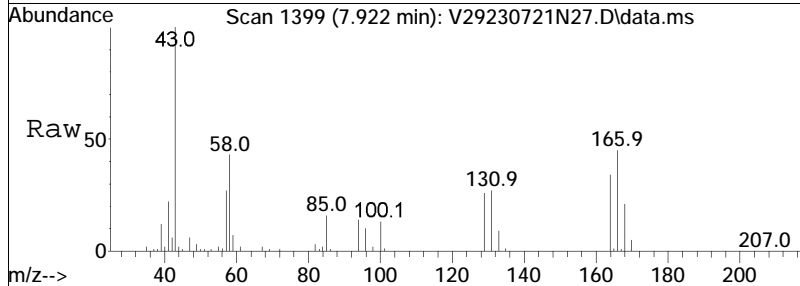
Tgt Ion	Resp	Lower	Upper
92	568924		
92	100		
91	171.8	139.8	209.6

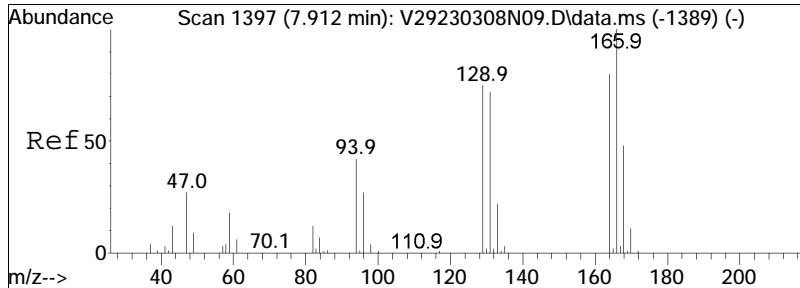




#62
 4-Methyl-2-pentanone
 Concen: 61.95 ug/L
 RT: 7.922 min Scan# 1399
 Delta R.T. -0.011 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

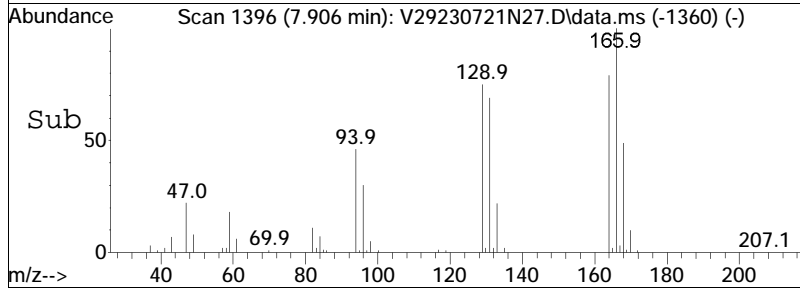
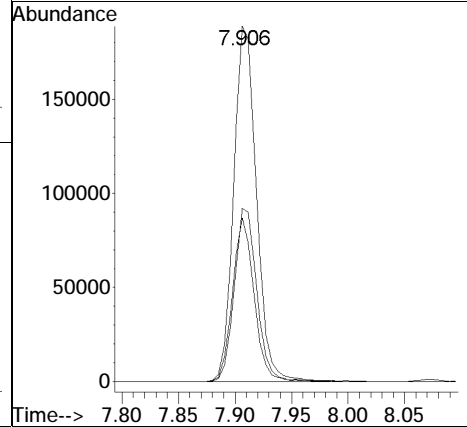
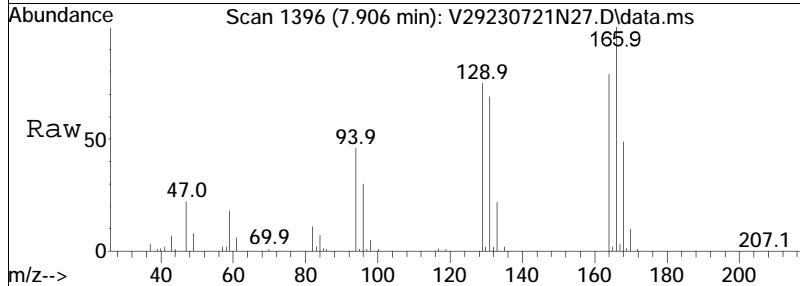
Tgt Ion	Resp	Lower	Upper
58	100		
100	32.3	20.2	30.2#
43	223.7	196.6	295.0

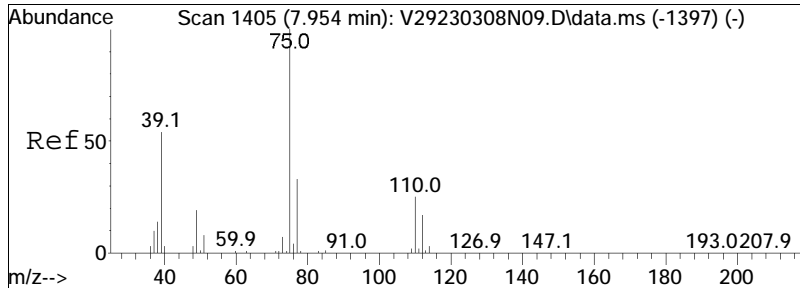




#63
 Tetrachloroethene
 Concen: 71.46 ug/L
 RT: 7.906 min Scan# 1396
 Delta R.T. -0.011 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

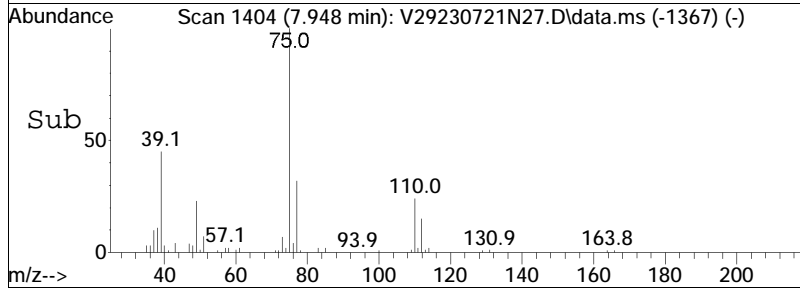
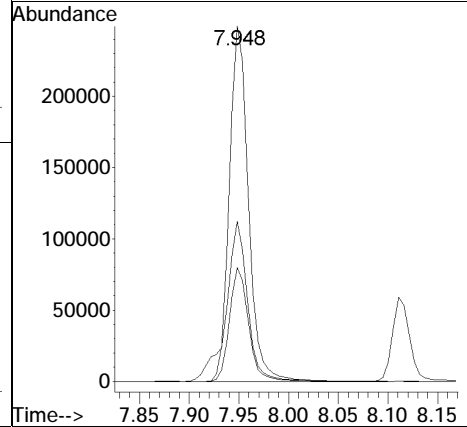
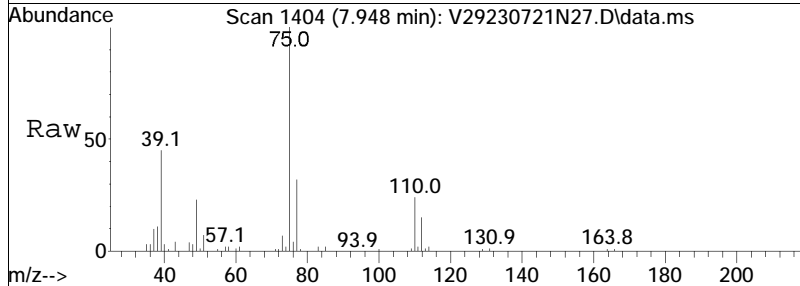
Tgt Ion	Resp	Lower	Upper
166	100		
168	48.2	28.2	68.2
94	43.6	38.4	78.4

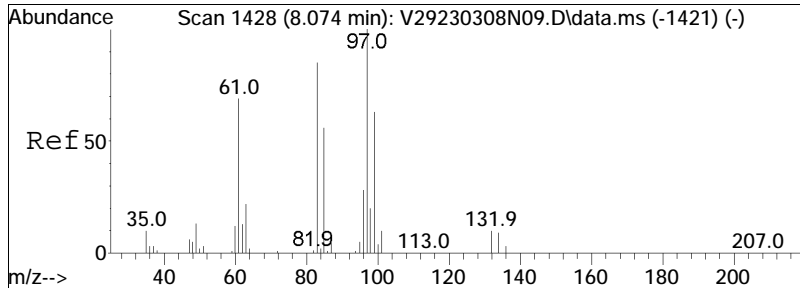




#65
 trans-1,3-Dichloropropene
 Concen: 69.56 ug/L
 RT: 7.948 min Scan# 1404
 Delta R.T. -0.006 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

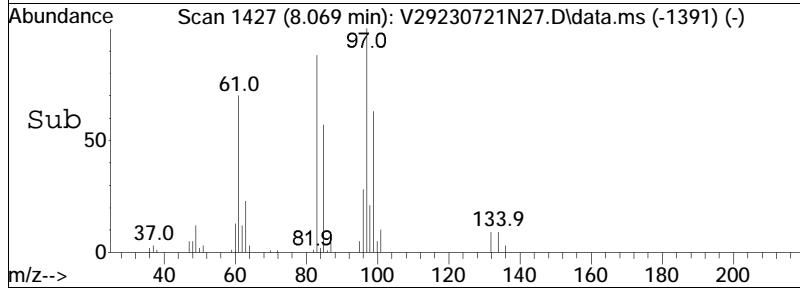
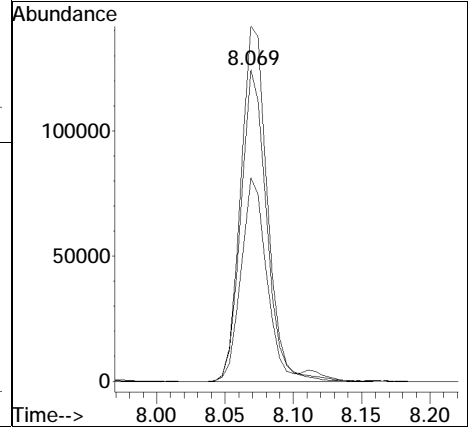
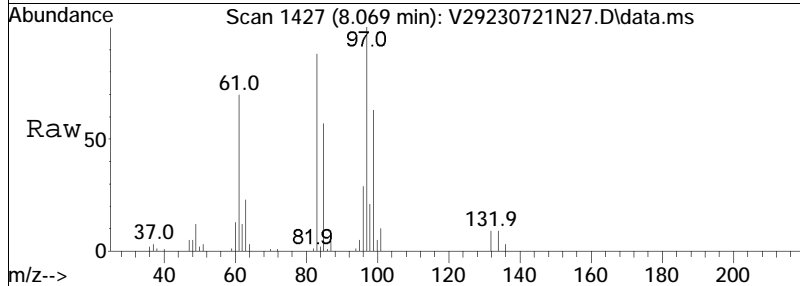
Tgt Ion:	75	Resp:	333533
Ion Ratio	Lower	Upper	
75	100		
77	31.9	12.4	52.4
39	50.5	42.8	82.8

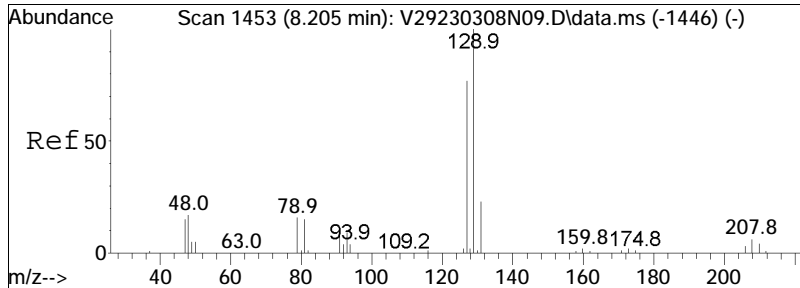




#68
 1,1,2-Trichloroethane
 Concen: 71.33 ug/L
 RT: 8.069 min Scan# 1427
 Delta R.T. -0.011 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

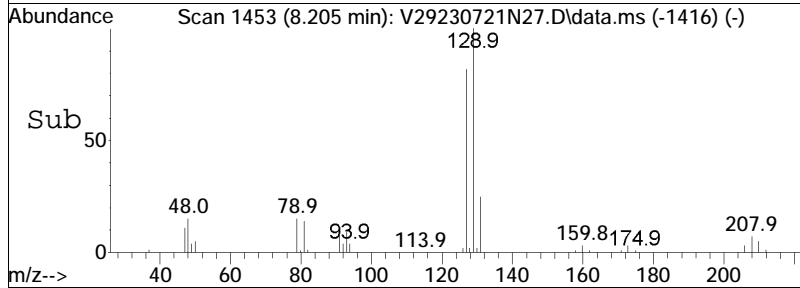
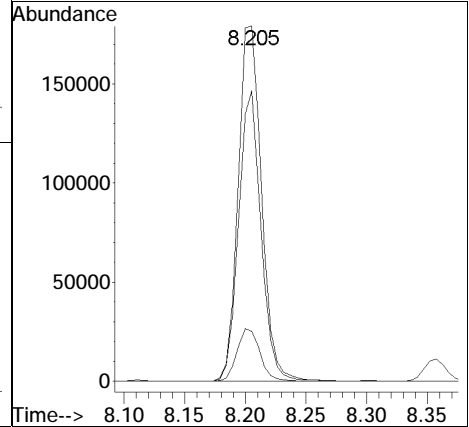
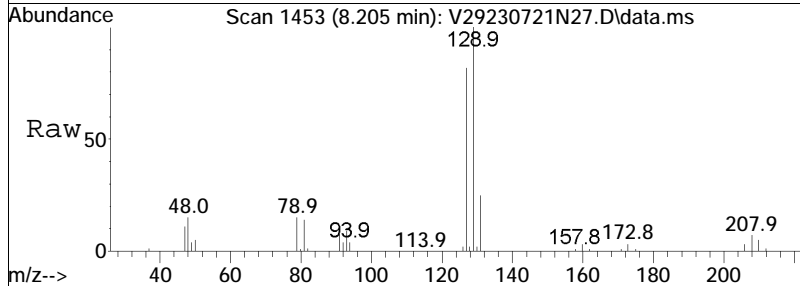
Tgt Ion:	83	Resp:	163103
Ion Ratio	Lower	Upper	
83	100		
97	118.1	89.8	129.8
85	64.6	44.4	84.4

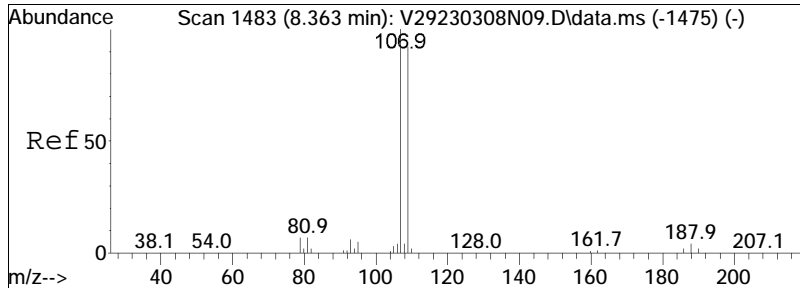




#69
 Chlorodibromomethane
 Concen: 72.91 ug/L
 RT: 8.205 min Scan# 1453
 Delta R.T. -0.006 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

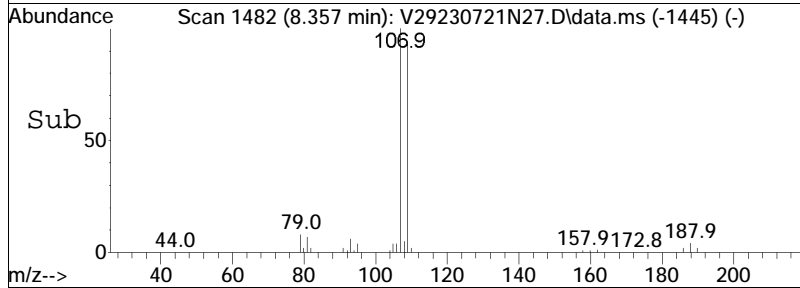
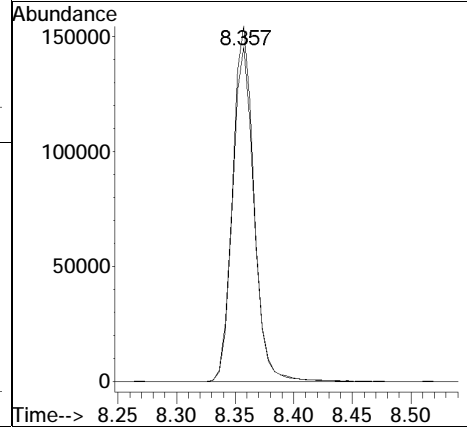
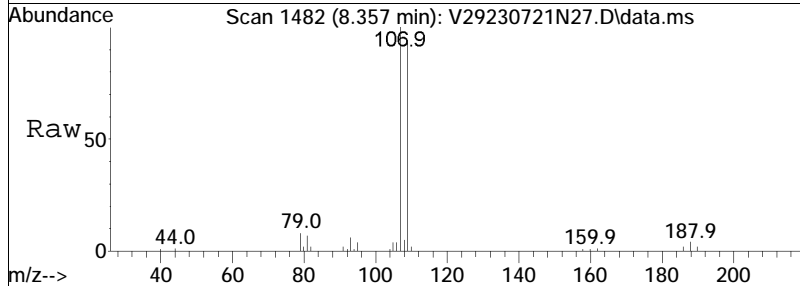
Tgt Ion	Resp	Lower	Upper
129	241310		
129	100		
81	14.6	2.9	42.9
127	78.1	57.8	97.8

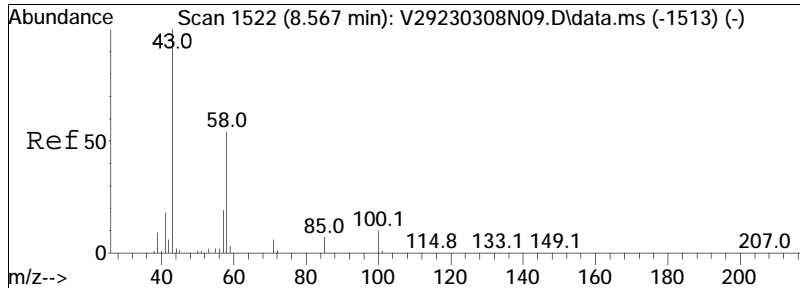




#71
 1,2-Dibromoethane
 Concen: 70.44 ug/L
 RT: 8.357 min Scan# 1482
 Delta R.T. -0.006 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

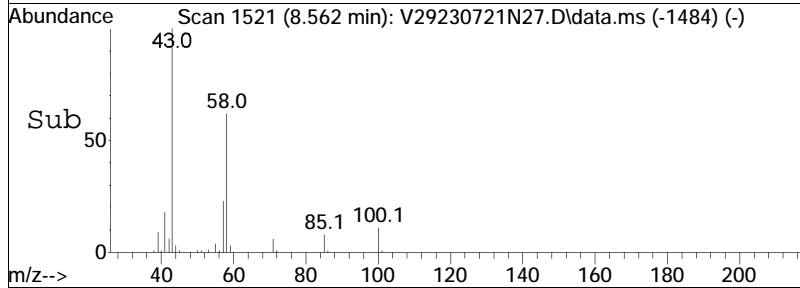
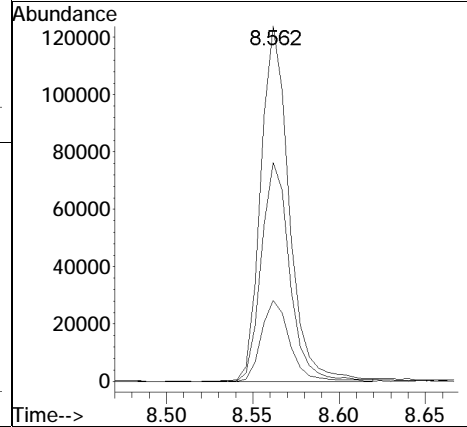
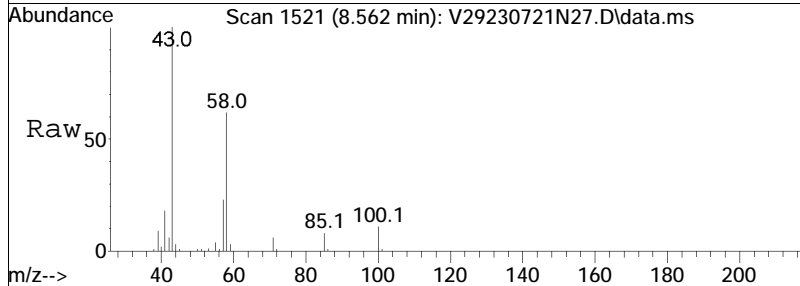
Tgt Ion	Resp	Lower	Upper
107	196210		
109	94.0	74.3	111.5

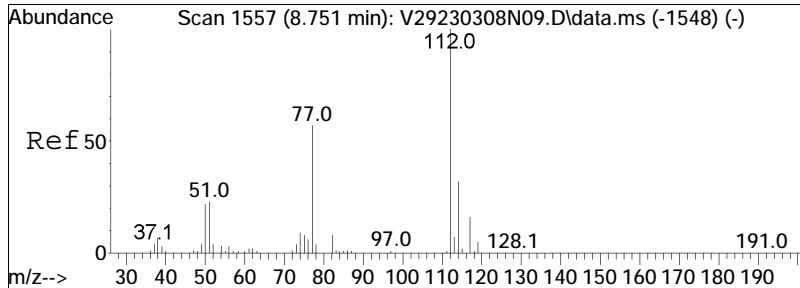




#72
 2-Hexanone
 Concen: 50.60 ug/L
 RT: 8.562 min Scan# 1521
 Delta R.T. -0.005 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

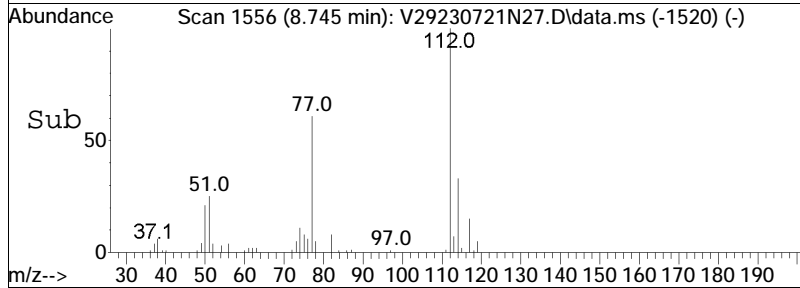
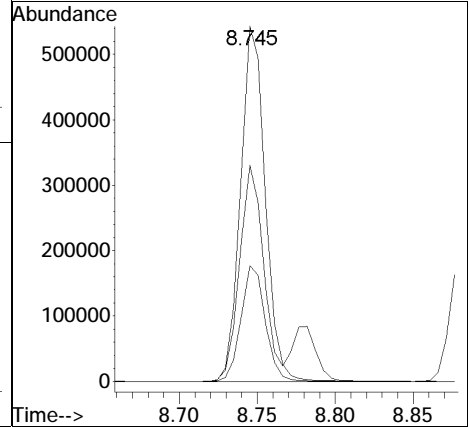
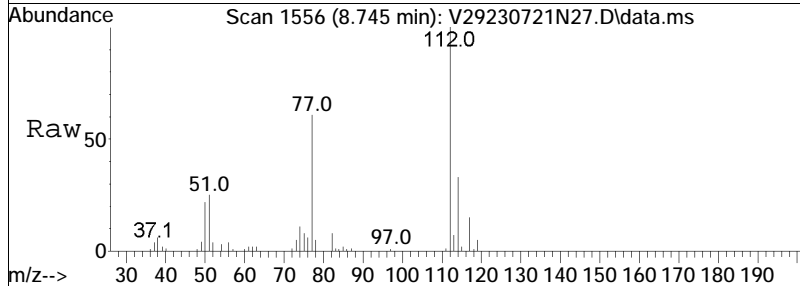
Tgt Ion:	43	Resp:	142161
Ion Ratio	Lower	Upper	
43	100		
58	62.2	41.2	61.8#
57	22.9	17.2	25.8

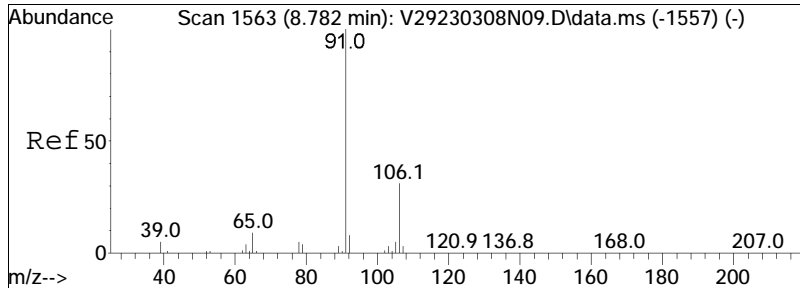




#73
 Chlorobenzene
 Concen: 69.47 ug/L
 RT: 8.745 min Scan# 1556
 Delta R.T. -0.011 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

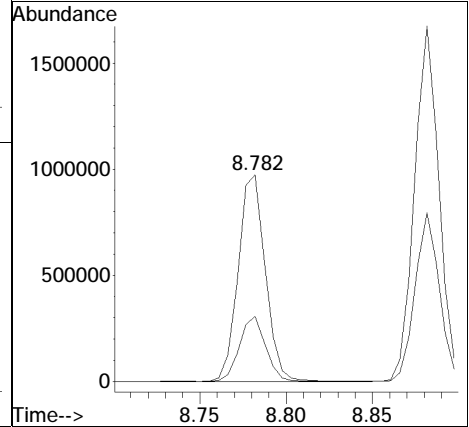
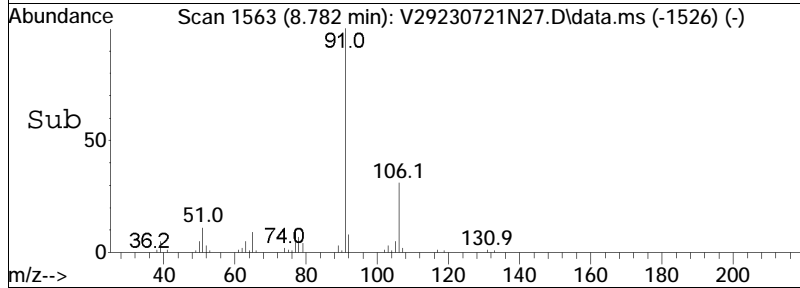
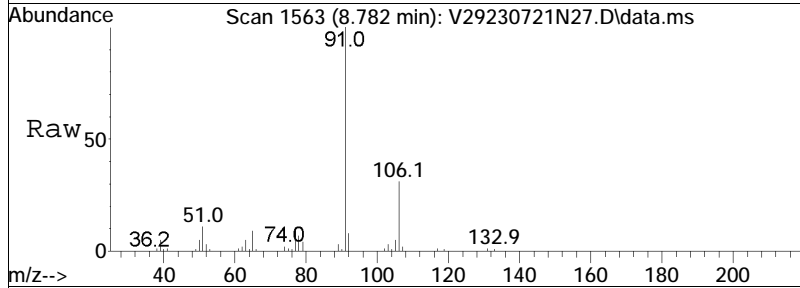
Tgt Ion	Ratio	Lower	Upper
112	100		
77	59.6	55.4	83.0
114	32.2	25.4	38.2

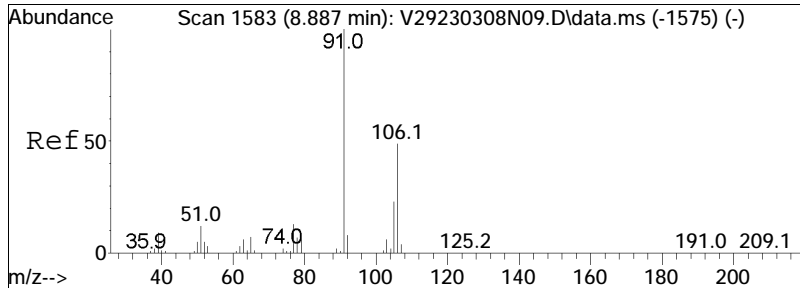




#74
 Ethylbenzene
 Concen: 74.84 ug/L
 RT: 8.782 min Scan# 1563
 Delta R.T. -0.005 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

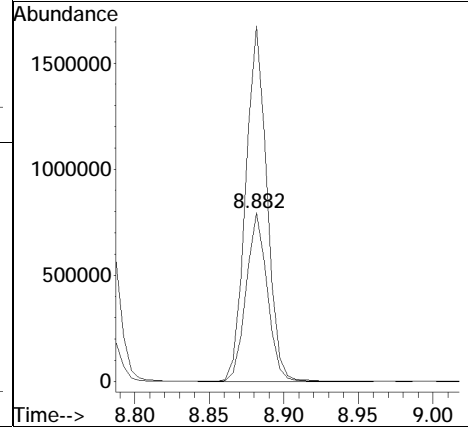
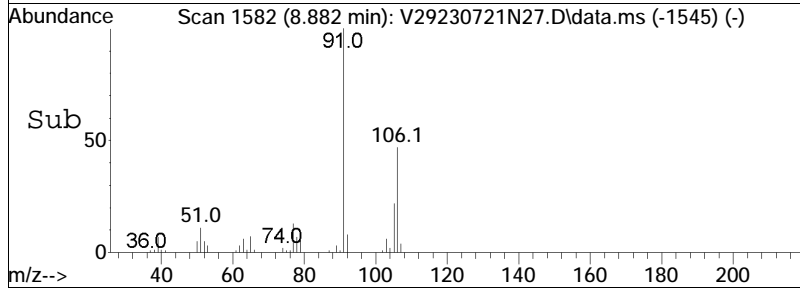
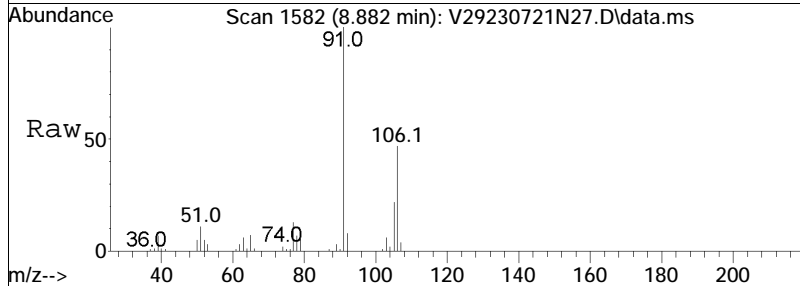
Tgt Ion	Resp	Ion Ratio	Lower	Upper
91	1062911	100		
106		30.4	24.3	36.5

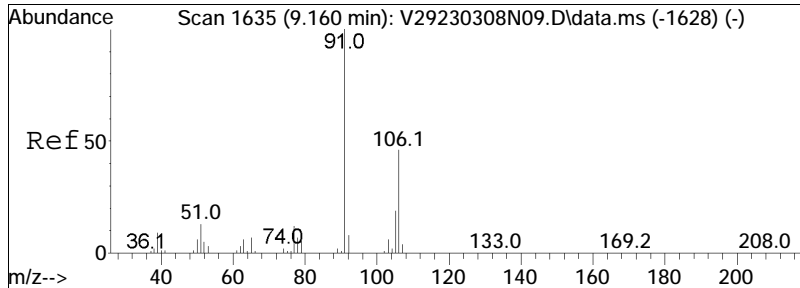




#76
 p/m Xylene
 Concen: 142.52 ug/L
 RT: 8.882 min Scan# 1582
 Delta R.T. -0.005 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

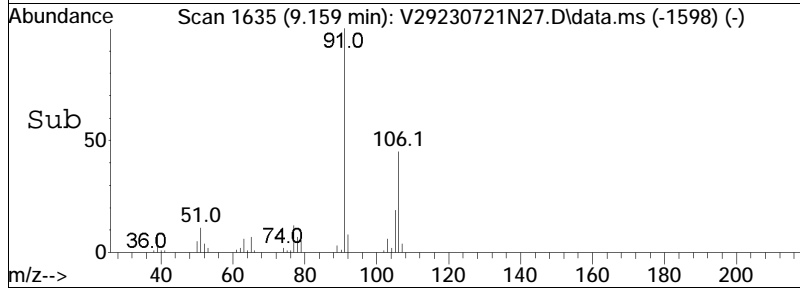
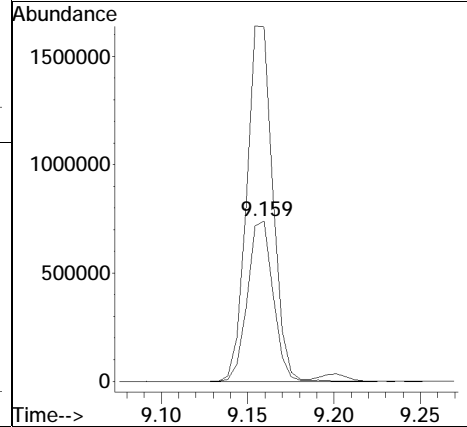
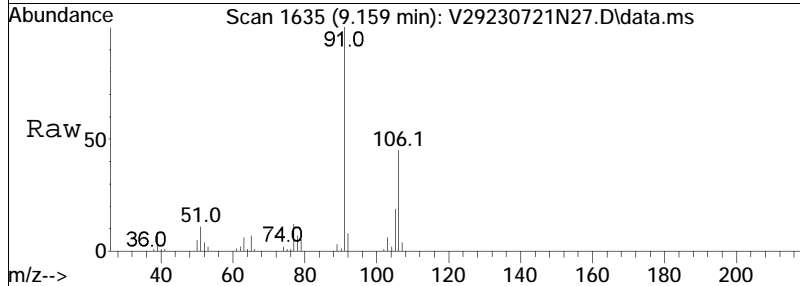
Tgt Ion	Ratio	Lower	Upper
106	100		
91	211.4	166.4	249.6

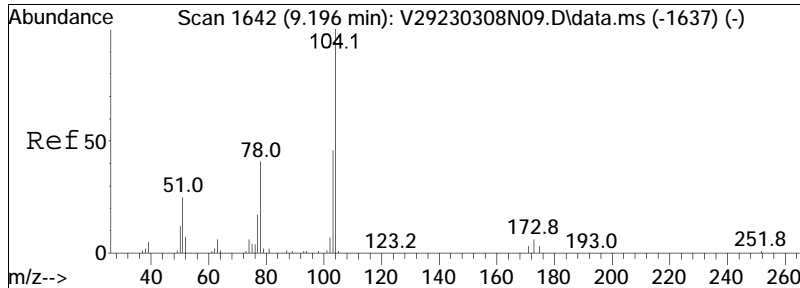




#77
 o Xylene
 Concen: 143.42 ug/L
 RT: 9.159 min Scan# 1635
 Delta R.T. -0.006 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

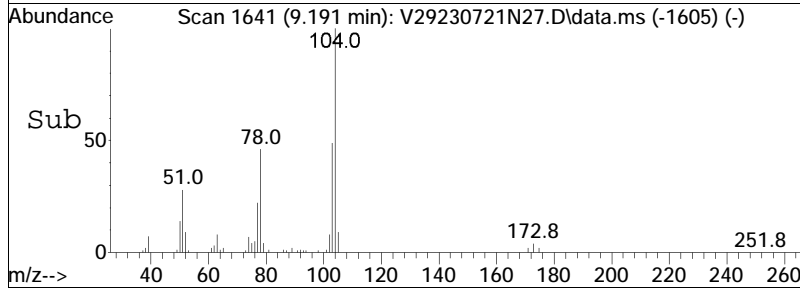
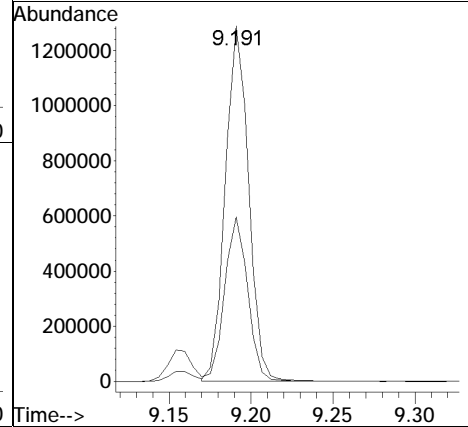
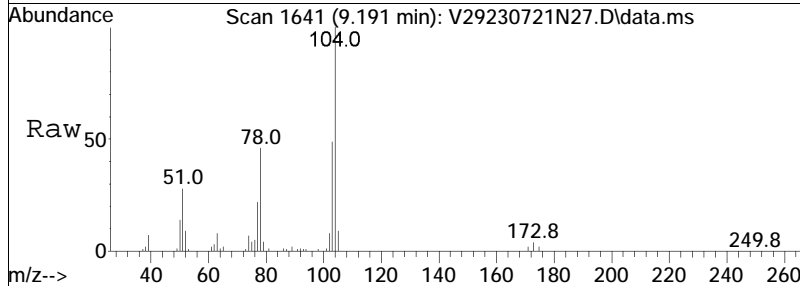
Tgt Ion	Resp	Lower	Upper
106	100		
91	223.6	182.6	273.8

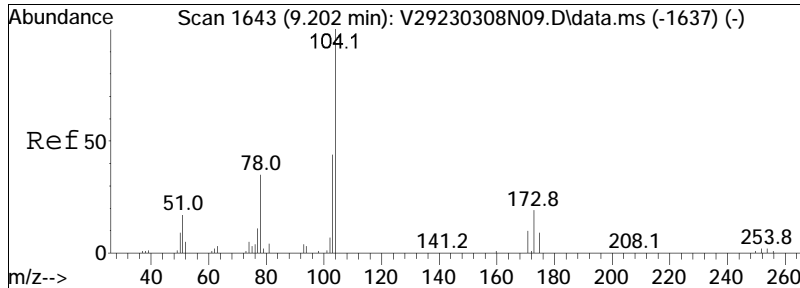




#78
 Styrene
 Concen: 142.62 ug/L
 RT: 9.191 min Scan# 1641
 Delta R.T. -0.011 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

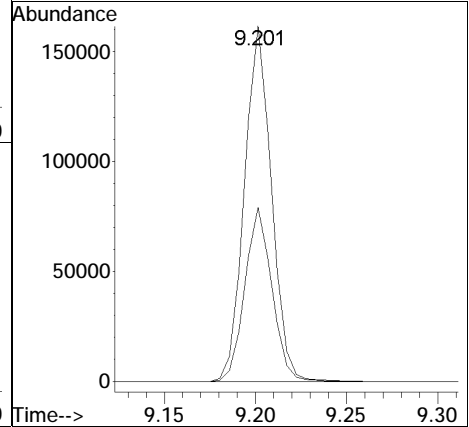
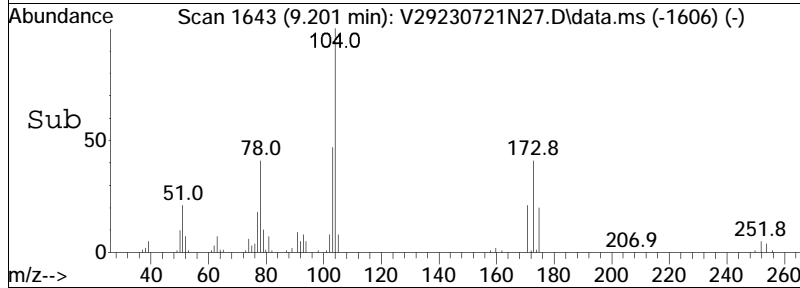
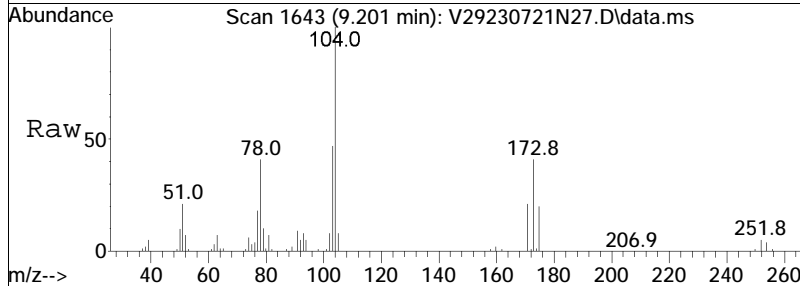
Tgt Ion	Resp	Lower	Upper
104	1275480		
78	45.8	39.8	59.6

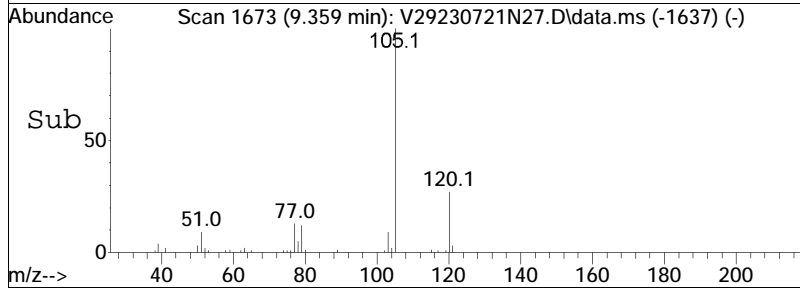
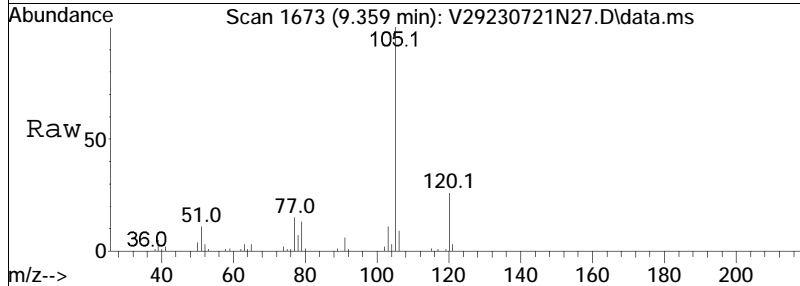
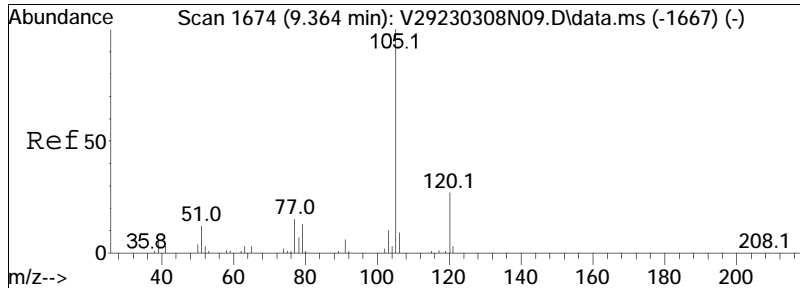




#80
 Bromoform
 Concen: 70.14 ug/L
 RT: 9.201 min Scan# 1643
 Delta R.T. -0.006 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

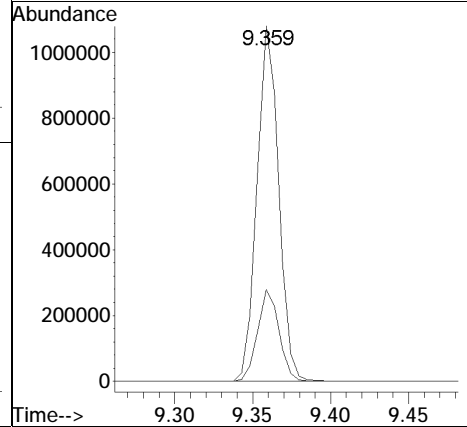
Tgt Ion: 173 Resp: 166651
 Ion Ratio Lower Upper
 173 100
 175 48.8 31.5 71.5

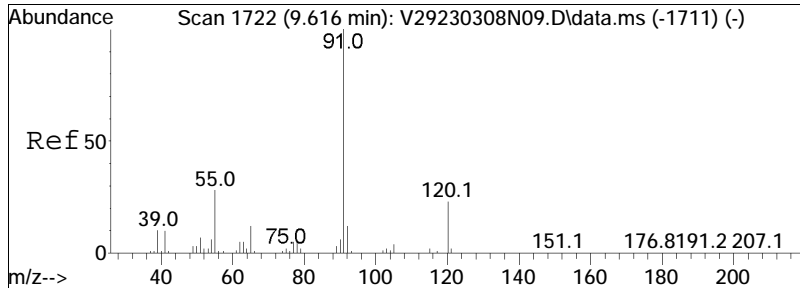




#82
 Isopropylbenzene
 Concen: 71.16 ug/L
 RT: 9.359 min Scan# 1673
 Delta R.T. -0.010 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

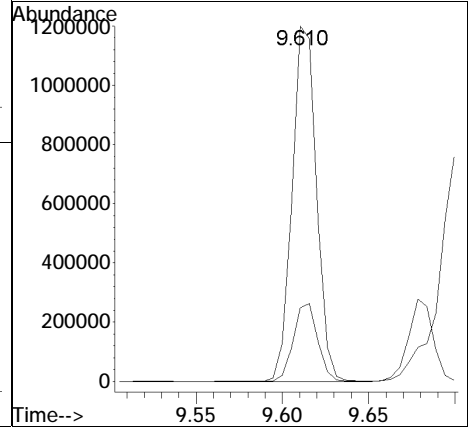
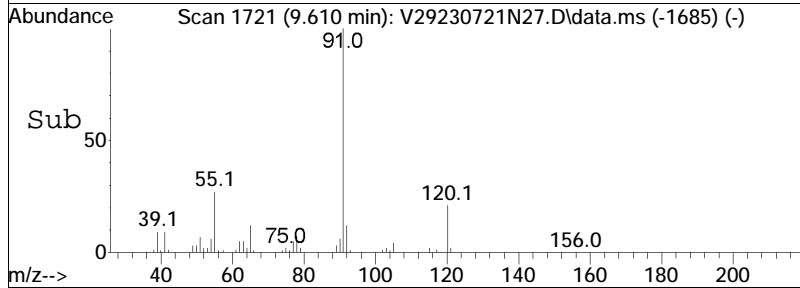
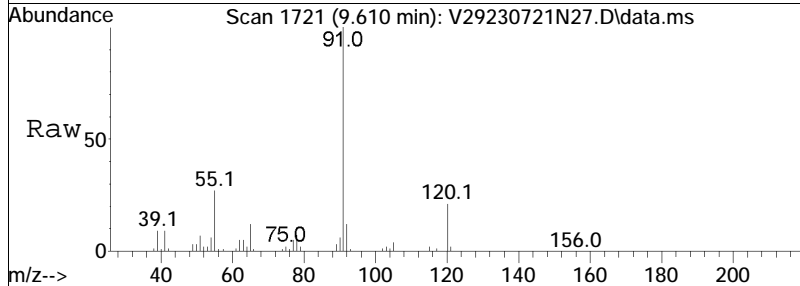
Tgt Ion	Resp	Lower	Upper
105	100		
120	25.6	4.8	44.8

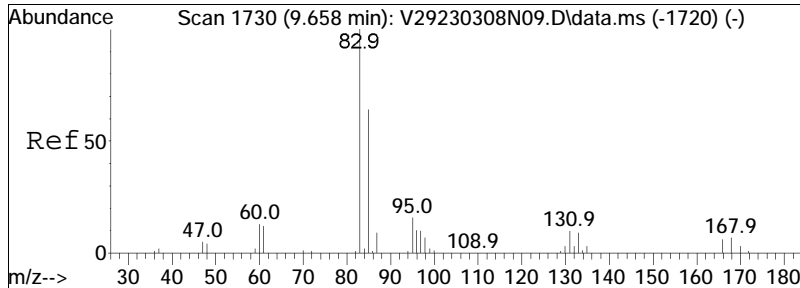




#85
 n-Propylbenzene
 Concen: 67.35 ug/L
 RT: 9.610 min Scan# 1721
 Delta R.T. -0.011 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

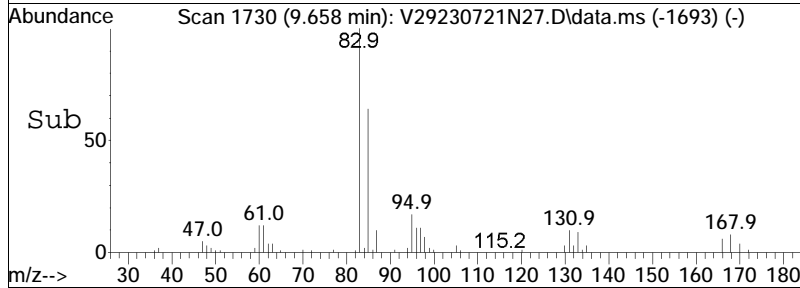
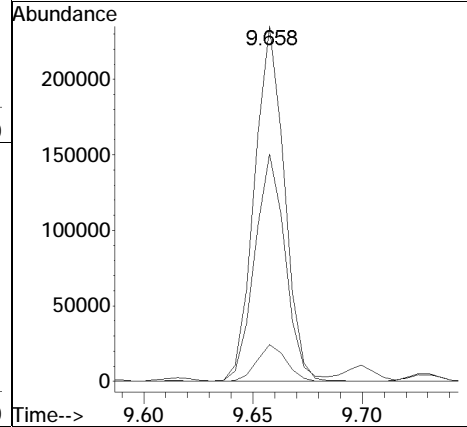
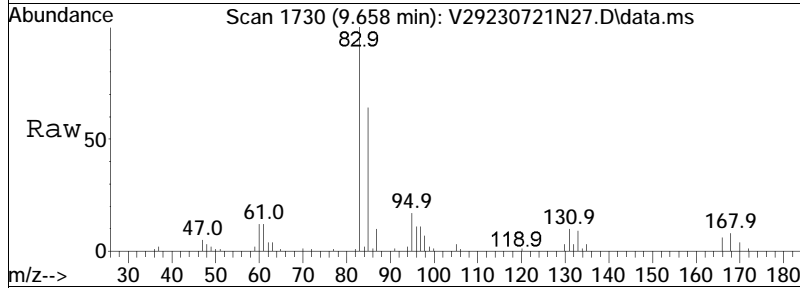
Tgt Ion: 91 Resp: 1178007
 Ion Ratio Lower Upper
 91 100
 120 21.8 17.0 25.6

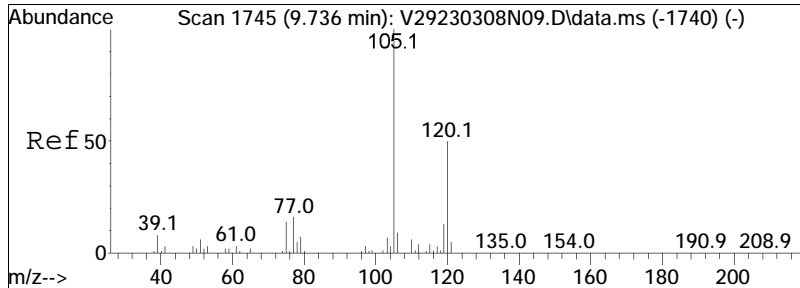




#87
 1,1,2,2-Tetrachloroethane
 Concen: 61.73 ug/L
 RT: 9.658 min Scan# 1730
 Delta R.T. -0.005 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

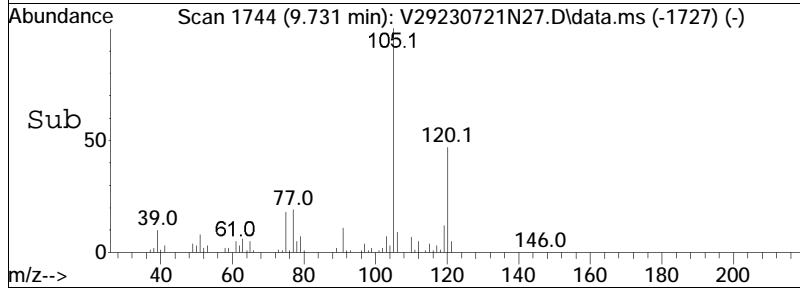
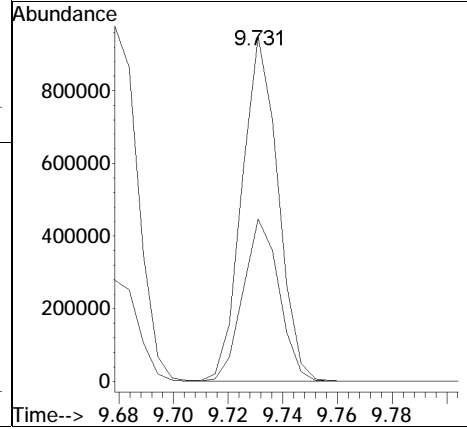
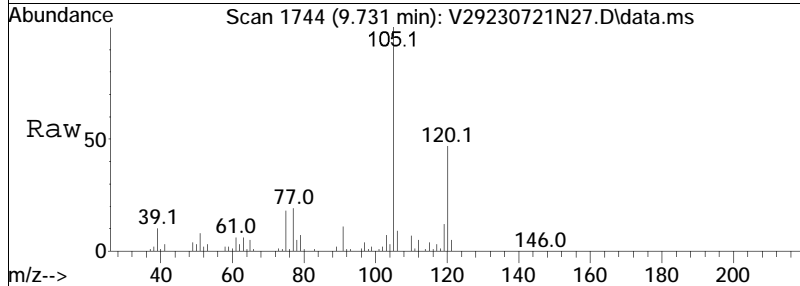
Tgt Ion	Resp	Lower	Upper
83	224147		
83	100		
131	10.2	0.0	30.4
85	65.2	45.4	85.4

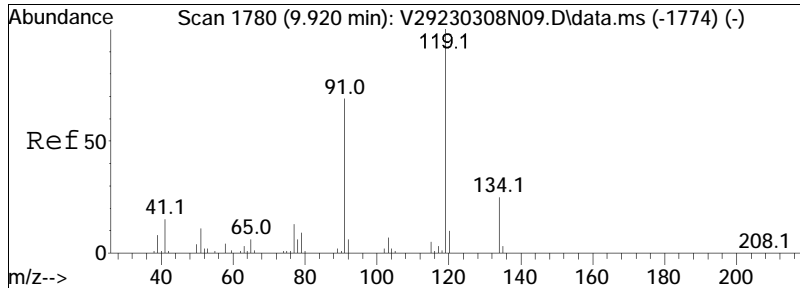




#90
 1,3,5-Trimethylbenzene
 Concen: 67.23 ug/L
 RT: 9.731 min Scan# 1744
 Delta R.T. -0.011 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

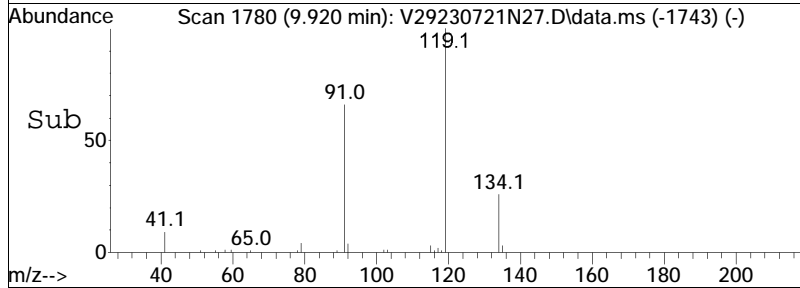
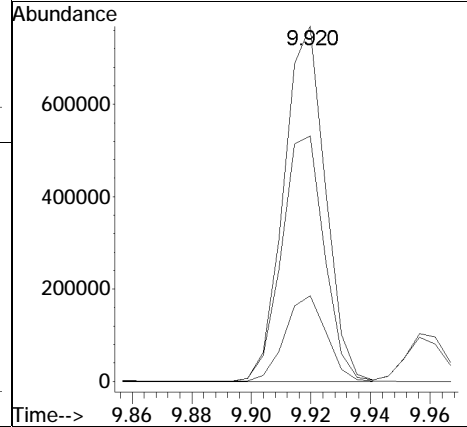
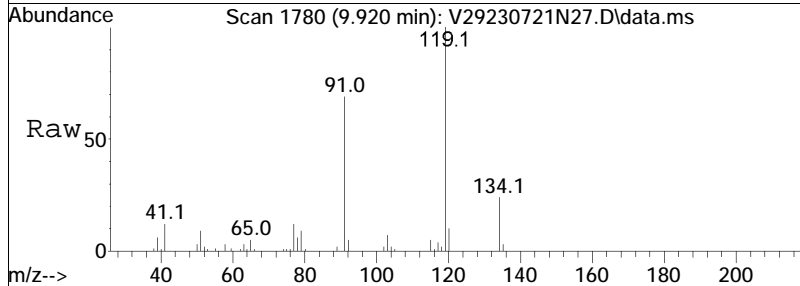
Tgt Ion	Resp	Lower	Upper
105	100		
120	47.2	34.8	52.2

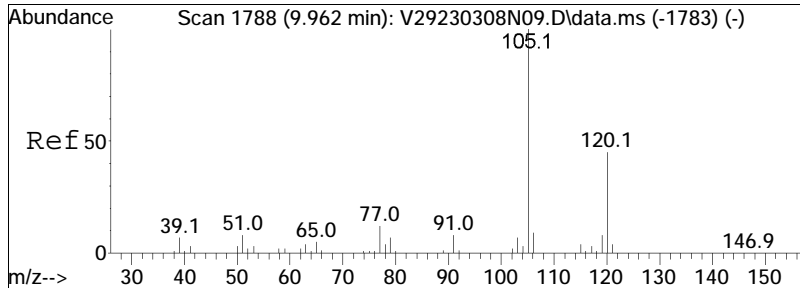




#94
 tert-Butylbenzene
 Concen: 67.74 ug/L
 RT: 9.920 min Scan# 1780
 Delta R.T. -0.005 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

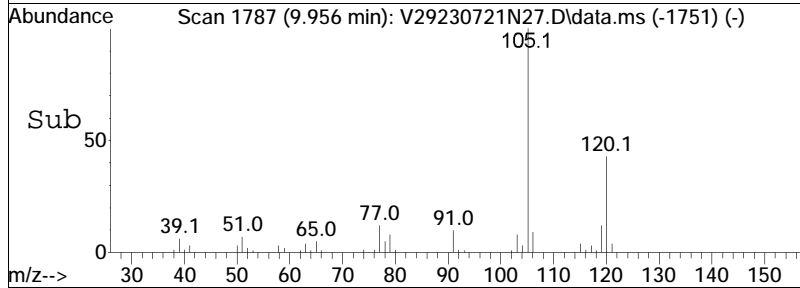
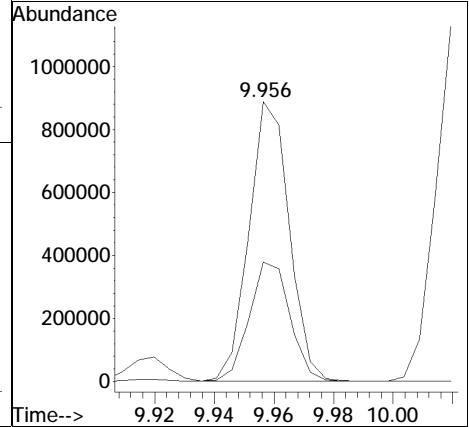
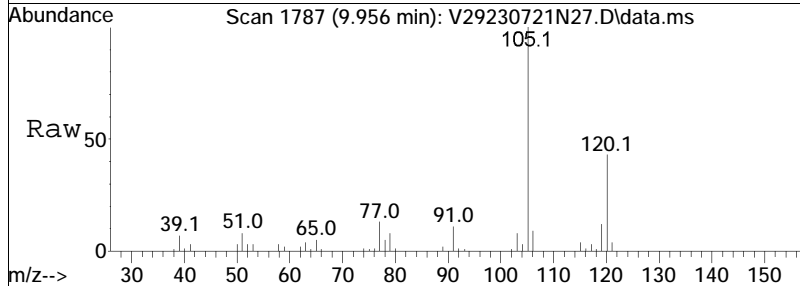
Tgt Ion	Resp	Lower	Upper
119	100		
91	70.9	51.4	77.2
134	24.0	18.3	27.5

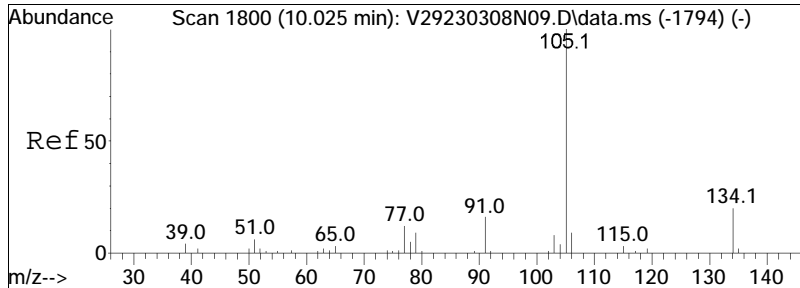




#97
 1,2,4-Trimethylbenzene
 Concen: 64.93 ug/L
 RT: 9.956 min Scan# 1787
 Delta R.T. -0.011 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

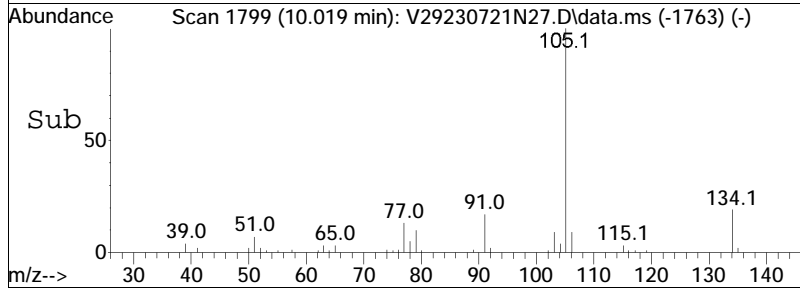
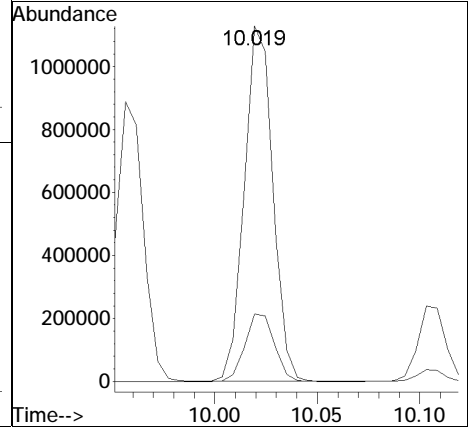
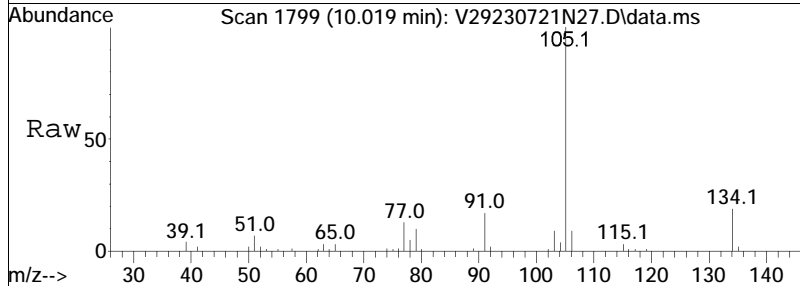
Tgt Ion	Resp	Lower	Upper
105	100		
120	43.2	33.4	50.0

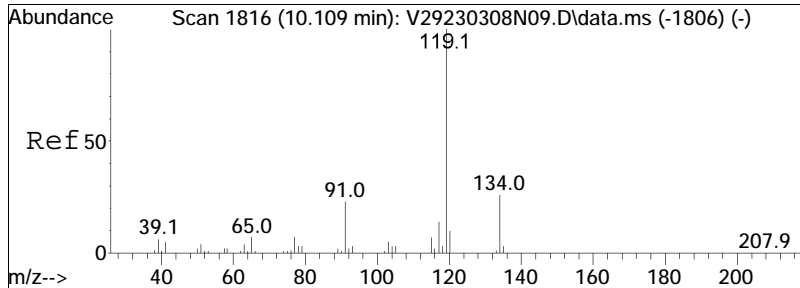




#98
 sec-Butylbenzene
 Concen: 68.18 ug/L
 RT: 10.019 min Scan# 1799
 Delta R.T. -0.011 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

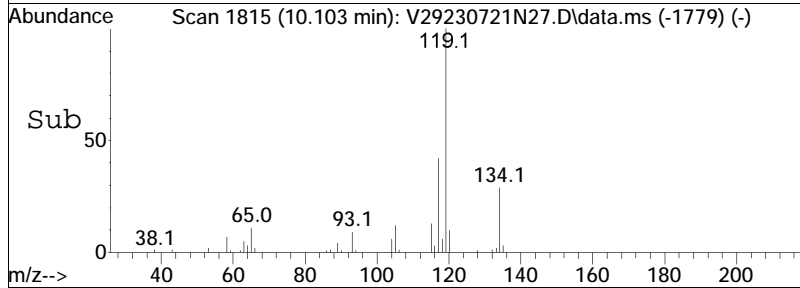
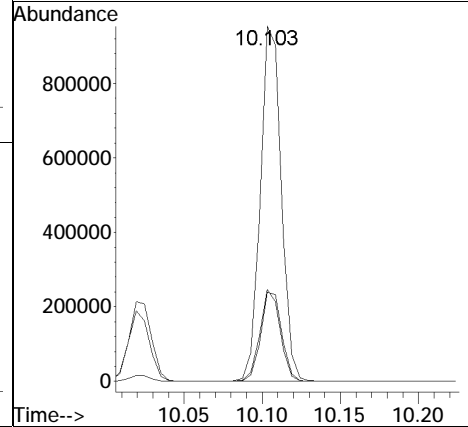
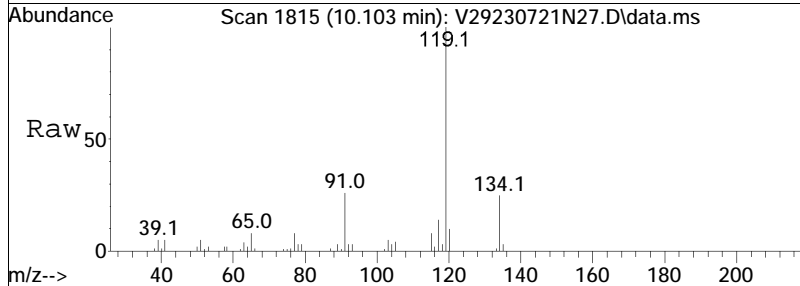
Tgt Ion:105 Resp: 1093889
 Ion Ratio Lower Upper
 105 100
 134 19.5 12.5 26.1

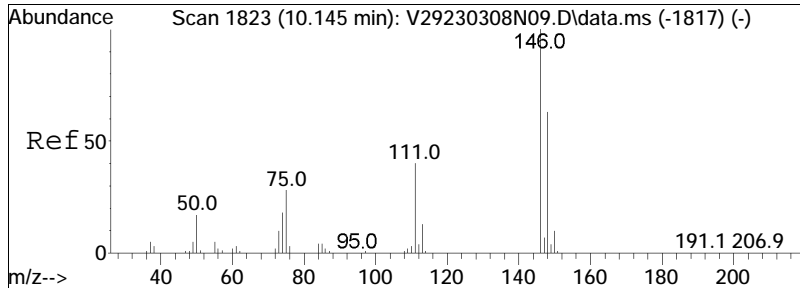




#99
 p-Isopropyltoluene
 Concen: 62.56 ug/L
 RT: 10.103 min Scan# 1815
 Delta R.T. -0.011 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

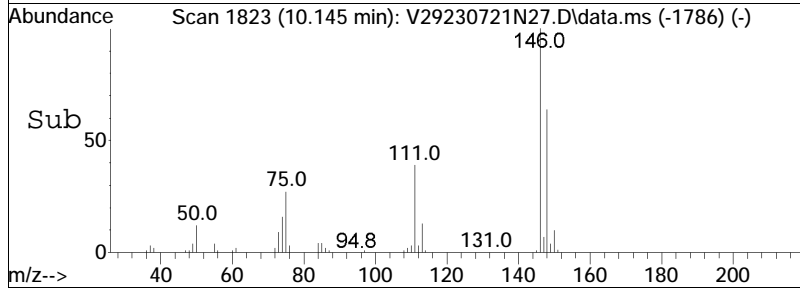
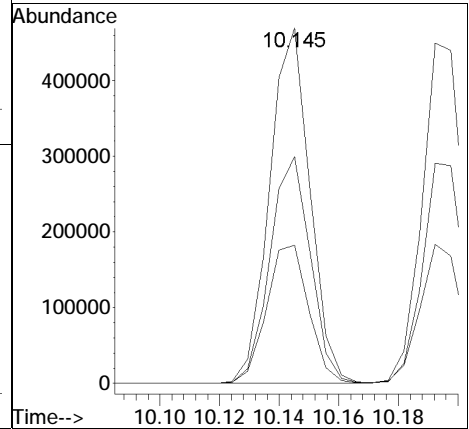
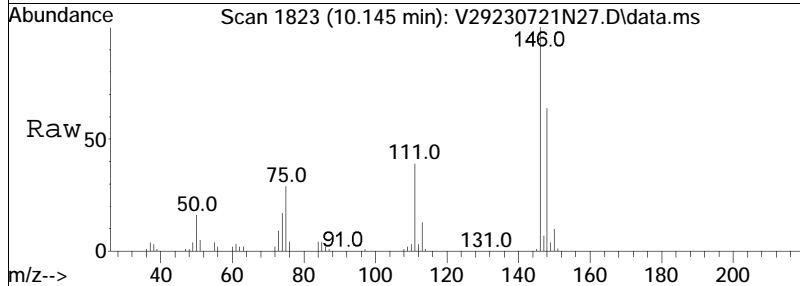
Tgt Ion	Resp	Lower	Upper
119	100		
134	25.2	16.1	33.3
91	24.9	17.3	35.9

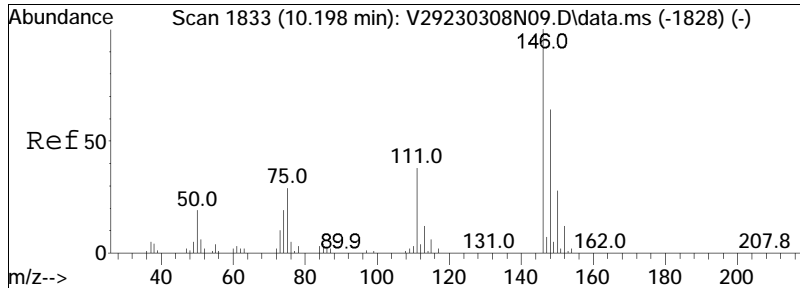




#100
 1,3-Dichlorobenzene
 Concen: 58.47 ug/L
 RT: 10.145 min Scan# 1823
 Delta R.T. -0.006 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

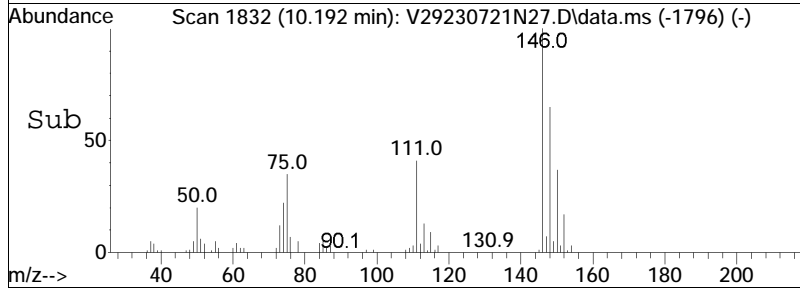
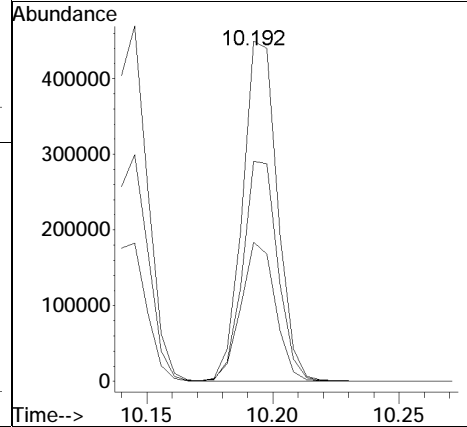
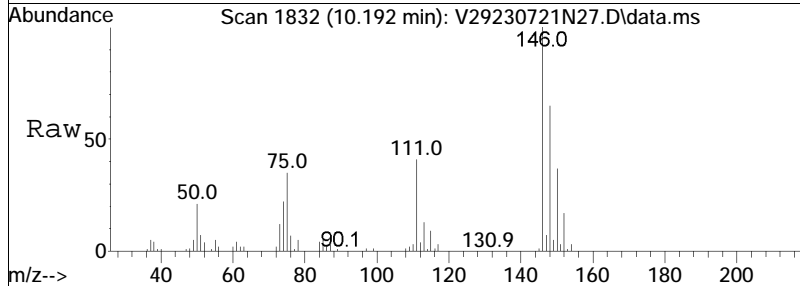
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.8	27.5	57.1
148	64.2	41.9	86.9

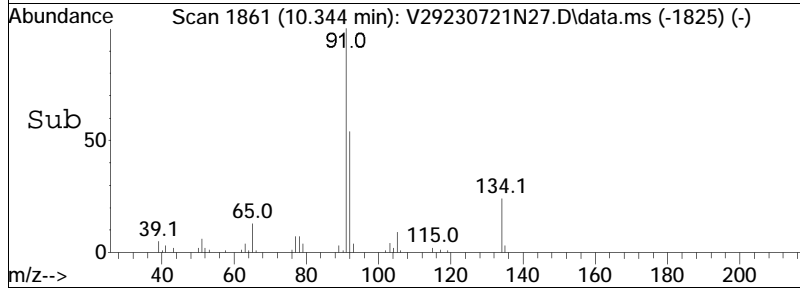
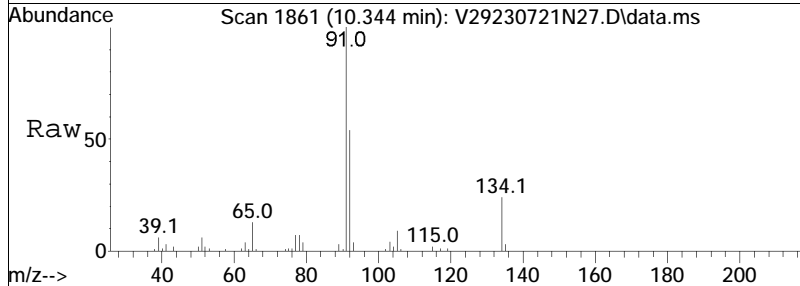
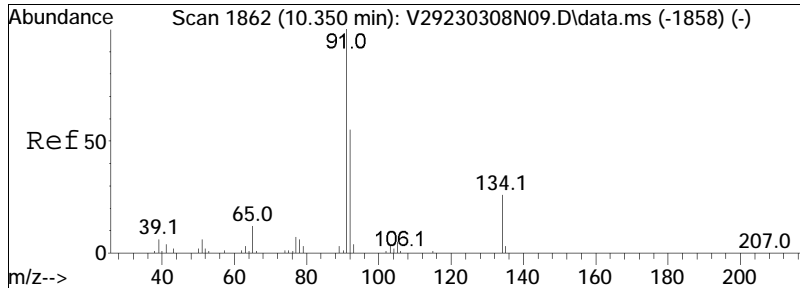




#101
 1,4-Dichlorobenzene
 Concen: 56.18 ug/L
 RT: 10.192 min Scan# 1832
 Delta R.T. -0.011 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

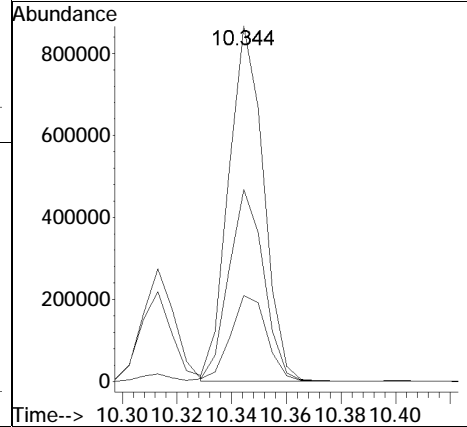
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	32.3	48.5
148	65.0	49.9	74.9

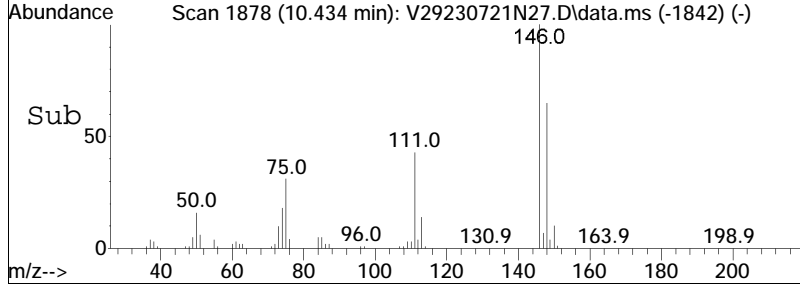
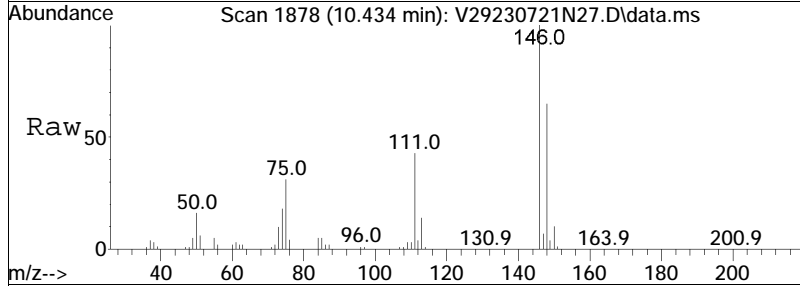
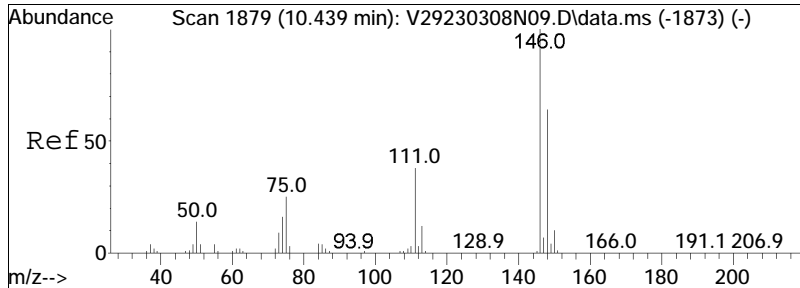




#103
 n-Butylbenzene
 Concen: 61.75 ug/L
 RT: 10.344 min Scan# 1861
 Delta R.T. -0.011 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

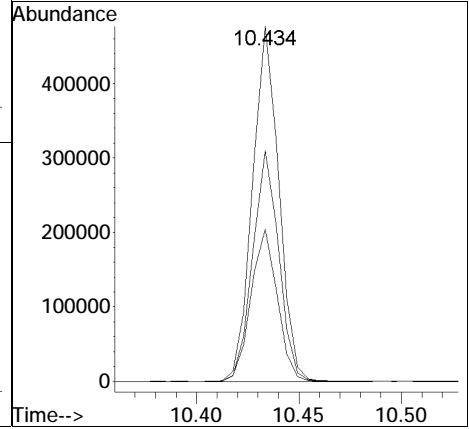
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
91	100		
92	54.4	43.0	64.4
134	25.2	19.6	29.4

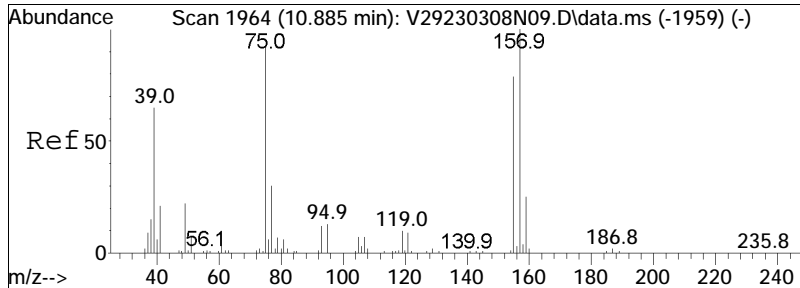




#104
 1,2-Dichlorobenzene
 Concen: 59.02 ug/L
 RT: 10.434 min Scan# 1878
 Delta R.T. -0.010 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

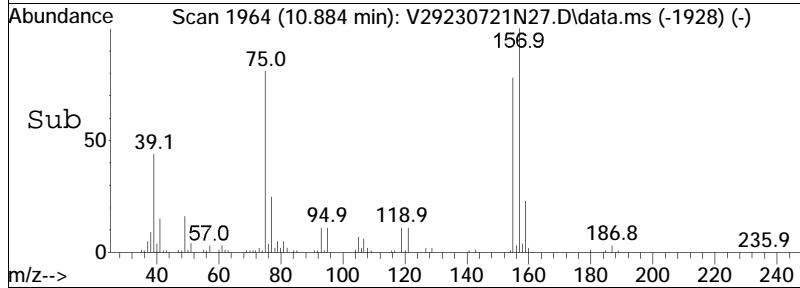
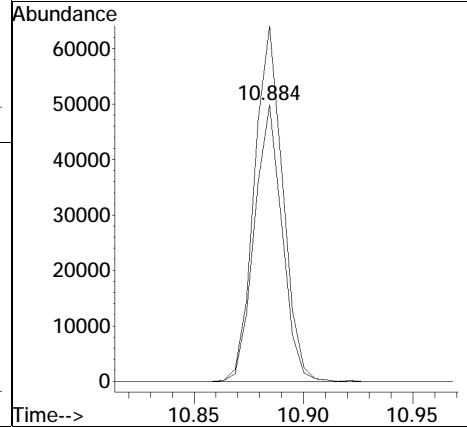
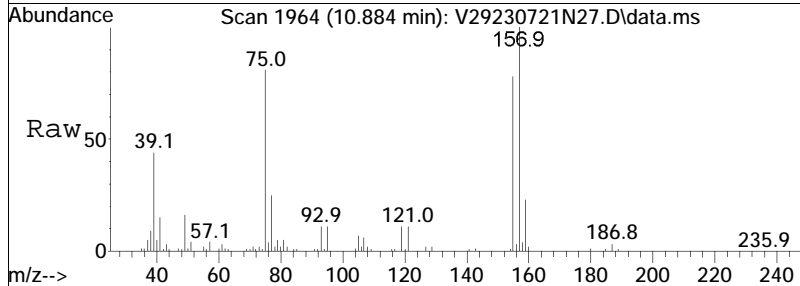
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.1	28.3	58.7
148	64.4	42.3	87.8

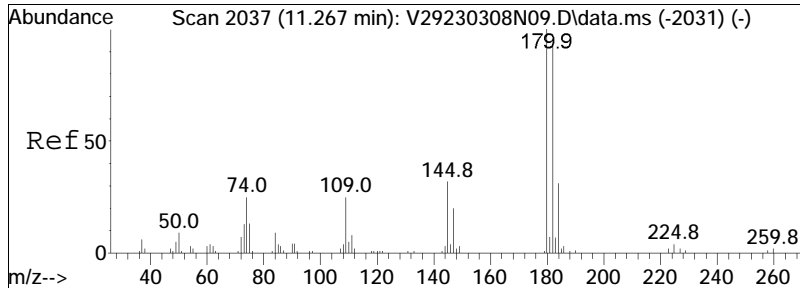




#106
 1,2-Dibromo-3-chloropropane
 Concen: 60.00 ug/L
 RT: 10.884 min Scan# 1964
 Delta R.T. -0.011 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

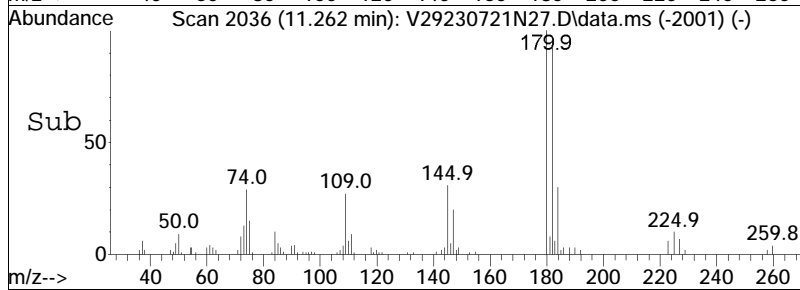
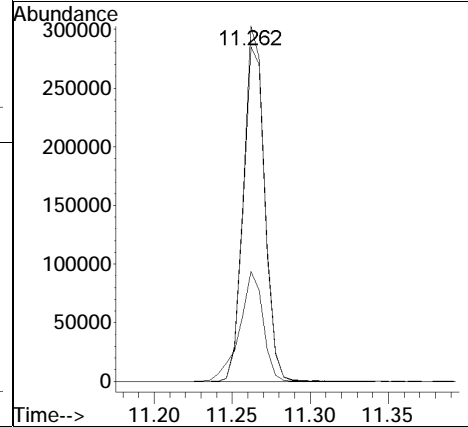
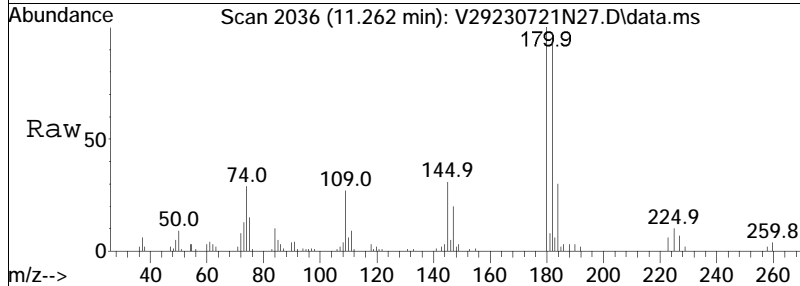
Tgt Ion	Resp	Lower	Upper
155	44015		
157	131.5	94.8	142.2

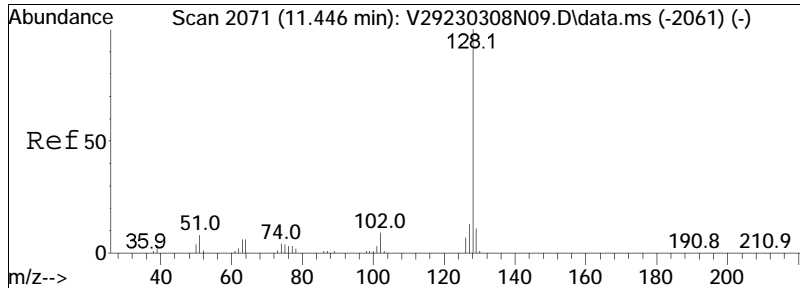




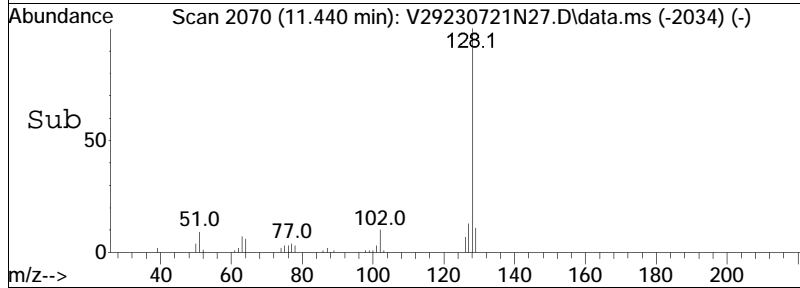
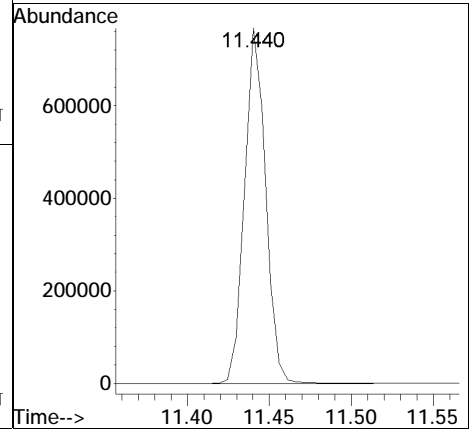
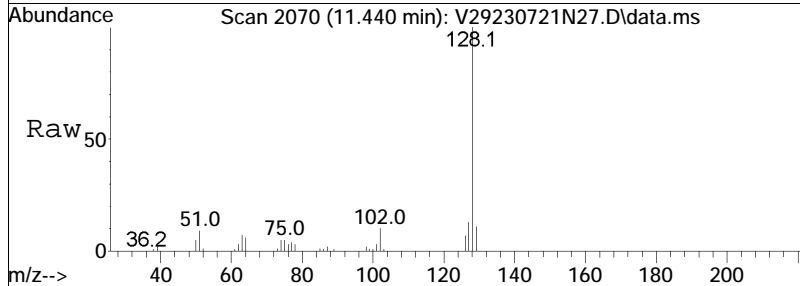
#109
 1,2,4-Trichlorobenzene
 Concen: 52.03 ug/L
 RT: 11.262 min Scan# 2036
 Delta R.T. -0.016 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	77.3	115.9
145	34.3	28.1	42.1





#110
 Naphthalene
 Concen: 54.02 ug/L
 RT: 11.440 min Scan# 2070
 Delta R.T. -0.011 min
 Lab File: V29230721N27.D
 Acq: 22 Jul 2023 03:36 am
 Tgt Ion:128 Resp: 685503



Manual Integration Report

Data Path : K:\VOA129\2023\230721N\ QMethod : V129_230308N_8260.m
Data File : V29230721N27.D Operator : VOA129:AJK
Date Inj'd : 7/22/2023 3:36 am Instrument : VOA 129
Sample : WG1806697-7,31,6.24,5,,b2 Quant Date : 7/23/2023 3:30 pm

There are no manual integrations or false positives in this file.



Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: $Amt * DF * Uf * (1/Vo)$

Where:

DF = Dilution Factor

Vo = Sample Volume Purged (mL)

Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: $Amt * DF * (1/Wt)$

Where:

DF = Dilution Factor

Wt = Weight of Sample (g)



ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jul 25 2023, 10:50 am

Work Group: WG1806697 for Department: 31 GC/MS - Volatiles

Created: 23-JUL-23 Due: Operator: ajk

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2339567-01	SL2-SB-01	S NYTCL-8260HLW-R2	SOIL	DONE	U	0725	0725	S0	8260SET
L2339907-02	TP-02-3-4FT	S NYTCL-8260HLW	SOIL	DONE	U	0725	0726	S0	8260SET
L2339907-03	TP-03-0.5-2 FT	S NYTCL-8260HLW	SOIL	DONE	U	0725	0726	S0	8260SET
L2339907-04	TP-04-0.5-2.5 FT	S NYTCL-8260HLW	SOIL	DONE	U	0726	0726	S0	8260SET
L2339907-05	TP-05-0.5-2.5 FT	S NYTCL-8260HLW	SOIL	DONE	U	0726	0726	S0	8260SET
L2339907-06	TP-06-0.4-3 FT	S NYTCL-8260HLW	SOIL	DONE	U	0726	0726	S0	8260SET
L2339907-07	TP-07-2.0-4.5 FT	S NYTCL-8260HLW	SOIL	DONE	U	0725	0726	S0	8260SET
L2339907-09	BD-01-3-4 FT	S NYTCL-8260HLW	SOIL	DONE	U	0725	0726	S0	8260SET
L2339909-01	HL-1	S NYTCL-8260-R2	SOIL	SEC	U	0725	0726	S0	Vial-Large
L2339909-02	HL-SW-COMP	S NYTCL-8260-R2	SOIL	DONE	U	0725	0726	S0	Vial-Large
WG1806697-1	MS BFB Tune Standard	S NYTCL-8260HLW-R2	SOIL	DONE	U				
WG1806697-1	MS BFB Tune Standard	S NYTCL-8260HLW	SOIL	DONE	U				
WG1806697-1	MS BFB Tune Standard	S NYTCL-8260-R2	SOIL	DONE	U				
WG1806697-2	Continuing Calibrati	S NYTCL-8260HLW-R2	SOIL	DONE	U				
WG1806697-2	Continuing Calibrati	S NYTCL-8260-R2	SOIL	DONE	U				
WG1806697-2	Continuing Calibrati	S NYTCL-8260HLW	SOIL	DONE	U				
WG1806697-3	Laboratory Control S	S NYTCL-8260-R2	SOIL	DONE	U				
WG1806697-3	Laboratory Control S	S NYTCL-8260HLW-R2	SOIL	DACQ	U				
WG1806697-3	Laboratory Control S	S NYTCL-8260HLW	SOIL	DACQ	U				
WG1806697-4	LCS Duplicate	S NYTCL-8260-R2	SOIL	DONE	U				
WG1806697-4	LCS Duplicate	S NYTCL-8260HLW-R2	SOIL	DACQ	U				
WG1806697-4	LCS Duplicate	S NYTCL-8260HLW	SOIL	DACQ	U				
WG1806697-5	Laboratory Method Bl	S NYTCL-8260-R2	SOIL	DONE	U				
WG1806697-5	Laboratory Method Bl	S NYTCL-8260HLW-R2	SOIL	DACQ	U				
WG1806697-5	Laboratory Method Bl	S NYTCL-8260HLW	SOIL	DACQ	U				
WG1806697-6	Matrix Spike	S NYTCL-8260-R2	SOIL	DONE	U				
WG1806697-6	Matrix Spike	S NYTCL-8260HLW-R2	SOIL	DACQ	U				
WG1806697-6	Matrix Spike	S NYTCL-8260HLW	SOIL	DACQ	U				
WG1806697-7	Matrix Spike Duplica	S NYTCL-8260-R2	SOIL	DONE	U				
WG1806697-7	Matrix Spike Duplica	S NYTCL-8260HLW	SOIL	DACQ	U				
WG1806697-7	Matrix Spike Duplica	S NYTCL-8260HLW-R2	SOIL	DACQ	U				

Comments:

WG1806697-4 WG1806697-3
 WG1806697-6 L2339907-02
 WG1806697-7 L2339907-02

Inst: VOA129 BFB: V9566
Initials: LAC IS/SS: V9550
Date: **03/08/23** ICAL: V9553E,V9574
Run: **N** ICV: V9535,V9572,V9571,V9548,V9549,V9573

Method
GC: 8260
Autosampler: 8260_SOIL
Concentrator: 8260_SOIL



QC: _____ Seq: _____

Vial	Data File	SAMPLE
1	V29230308NBF1	BFB
1	V29230308NBF2	BFB
1	V29230308NBF3	BFB
1	V29230308N01	BLK
2	V29230308N02	BLK
3	V29230308N03	BLK
4	V29230308N04	I8260STD0.5PPB
5	V29230308N05	I8260STD1PPB
6	V29230308N06	I8260STD2PPB
7	V29230308N07	I8260STD4PPB
8	V29230308N08	I8260STD20PPB
9	V29230308N09	I8260STD40PPB
10	V29230308N10	I8260STD100PPB
11	V29230308N11	I8260STD200PPB
12	V29230308N12	I8260STD300PPB
13	V29230308N13	BLK
14	V29230308N14	BLK
15	V29230308N15	BLK
16	V29230308N16	C8260STD40PPB
17	V29230308N17	C8260STD40PPB
18	V29230308N18	BLK
19	V29230308N19	MEOH BLK
20	V29230308N20	0.5PPB MDL
21	V29230308N21	1PPB MDL
22	V29230308N22	4PPB MDL

Inst: VOA129 BFB: V9777
 Initials: LAC IS/SS: V9810
 Date: **07/21/23** ICAL: V9807,V9805E
 Run: N

Method
 GC: 8260
 Autosampler: 8260_SOIL
 Concentrator: 8260_SOIL



QC: _____ Seq: _____

Vial	Data File	SAMPLE
1	V29230721NBF1	BFB
1	V29230721N01	8260 CCAL
2	V29230721N02	8260 LCS
3	V29230721N03	8260 LCS
4	V29230721N04	BLK
5	V29230721N05	MEOH BLK
6	V29230721N06	I2339643-20,31,4.79,5,,y NJHLW
7	V29230721N07	I2339643-26,31,5.51,5,,z NJHLW
8	V29230721N08	I2339643-01,31,4.61,5,,z NJHLW
9	V29230721N09	I2339643-16R,31,5.74,5,,z NJHLW
10	V29230721N10	I2340426-01R,31,4.10,5,,c PALW
11	V29230721N11	I2340426-07,31,5.64,5,,b PALW^
12	V29230721N12	I2341899-01,31,10.08,5,,b,r3b 8LW-NH
13	V29230721N13	I2339907-02,31,5.91,5,,b NYHLW CURVE+10
14	V29230721N14	I2339907-03,31,5.72,5,,b NYHLW CURVE+10
15	V29230721N15	I2339907-04,31,3.99,5,,b NYHLW CURVE+10
16	V29230721N16	I2339907-05,31,5.08,5,,b NYHLW CURVE+10
17	V29230721N17	I2339907-06,31,5.94,5,,b NYHLW CURVE+10
18	V29230721N18	I2339907-07,31,3.98,5,,b NYHLW CURVE+10
19	V29230721N19	I2339907-09,31,6.70,5,,b NYHLW CURVE+10
20	V29230721N20	I2339909-01,31,5.76,5,,y NYHLW CURVE
21	V29230721N21	I2339909-02,31,5.44,5,,y NYHLW CURVE
22	V29230721N22	I2341878-02,31,9.05,5,,b,r1b MLW
23	V29230721N23	I2341878-01,31,11.99,5,,b,r1b MLW
24	V29230721N24	I2339567-01,31,7.21,5,,b NYHLW CURVE
25	V29230721N25	I2339567-02d,31h,9.25,5,0.005,,a NY/H CURVE
26	V29230721N26	I2339907-02MS,31,6.66,5,,b1 NYHLW CURVE+10
27	V29230721N27	I2339907-02MSD,31,6.24,5,,b2 NYHLW CURVE+10

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Surrogate Recovery Summary

Form 2

Semivolatiles

Client: LaBella Associates, P.C.
Project Name: PH II INVESTIGATION

Lab Number: L2339907
Project Number: 2230119
Matrix: Soil

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
TP-02-3-4FT (L2339907-02)	64	65	77	66	72	60	0
TP-03-0.5-2 FT (L2339907-03)	64	69	85	67	67	58	0
TP-04-0.5-2.5 FT (L2339907-04)	69	64	86	86	74	71	0
TP-05-0.5-2.5 FT (L2339907-05)	56	59	83	69	65	59	0
TP-06-0.4-3 FT (L2339907-06)	72	77	88	76	74	63	0
TP-07-2.0-4.5 FT (L2339907-07)	72	74	86	71	73	62	0
BD-01-3-4 FT (L2339907-09)	86	84	80	85	83	81	0
WG1803858-1BLANK	74	76	84	73	79	70	0
WG1803858-2LCS	82	84	93	78	86	73	0
WG1803858-3LCSD	66	68	77	65	71	58	0
TP-02-3-4FTMS	63	64	75	59	67	53	0
TP-02-3-4FTMSD	75	77	92	74	83	64	0
WG1804755-1BLANK	73	69	60	62	54	58	0
WG1804755-2LCS	76	74	72	64	61	58	0
WG1804755-3LCSD	74	74	70	65	61	63	0

QC LIMITS

- (25-120) 2FP = 2-FLUOROPHENOL
- (10-120) PHL = PHENOL-D6
- (23-120) NBZ = NITROBENZENE-D5
- (30-120) FBP = 2-FLUOROBIPHENYL
- (10-136) TBP = 2,4,6-TRIBROMOPHENOL
- (18-120) TPH = 4-TERPHENYL-D14

* Values outside of QC limits

FORM II NYTCL-8270



Laboratory Control Sample Summary

Form 3

Semivolatiles

Client : LaBella Associates, P.C. **Lab Number** : L2339907
Project Name : PH II INVESTIGATION **Project Number** : 2230119
Matrix (Level) : SOIL (LOW)
LCS Sample ID : WG1803858-2 **Analysis Date** : 07/19/23 01:38 **File ID** : 803858-2
LCSD Sample ID : WG1803858-3 **Analysis Date** : 07/19/23 02:01 **File ID** : 803858-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
Acenaphthene	1300	980	74	1300	820	63	16	31-137	50
Hexachlorobenzene	1300	1000	78	1300	860	65	18	40-140	50
Bis(2-chloroethyl)ether	1300	1100	81	1300	870	66	20	40-140	50
2-Chloronaphthalene	1300	1000	79	1300	890	68	15	40-140	50
3,3'-Dichlorobenzidine	1300	920	70	1300	770	59	17	40-140	50
2,4-Dinitrotoluene	1300	1200	90	1300	1000	76	17	40-132	50
2,6-Dinitrotoluene	1300	1200	90	1300	990	76	17	40-140	50
Fluoranthene	1300	1000	80	1300	860	65	21	40-140	50
4-Chlorophenyl phenyl ether	1300	1000	77	1300	840	64	18	40-140	50
4-Bromophenyl phenyl ether	1300	1000	78	1300	860	66	17	40-140	50
Bis(2-chloroisopropyl)ether	1300	790	60	1300	650	49	20	40-140	50
Bis(2-chloroethoxy)methane	1300	1200	88	1300	960	74	17	40-117	50
Hexachlorobutadiene	1300	1100	82	1300	890	68	19	40-140	50
Hexachlorocyclopentadiene	1300	920	70	1300	740	57	20	40-140	50
Hexachloroethane	1300	1100	82	1300	870	66	22	40-140	50
Isophorone	1300	1200	92	1300	1000	77	18	40-140	50
Naphthalene	1300	1000	76	1300	820	62	20	40-140	50
Nitrobenzene	1300	1200	93	1300	1000	78	18	40-140	50
NDPA/DPA	1300	1000	77	1300	850	65	17	36-157	50
n-Nitrosodi-n-propylamine	1300	1200	95	1300	1000	79	18	32-121	50
Bis(2-ethylhexyl)phthalate	1300	1100	82	1300	920	70	16	40-140	50
Butyl benzyl phthalate	1300	1200	88	1300	950	72	20	40-140	50
Di-n-butylphthalate	1300	1200	92	1300	1000	76	19	40-140	50
Di-n-octylphthalate	1300	1100	86	1300	940	72	18	40-140	50
Diethyl phthalate	1300	1100	83	1300	910	69	18	40-140	50
Dimethyl phthalate	1300	1100	83	1300	930	71	16	40-140	50



Laboratory Control Sample Summary

Form 3

Semivolatiles

Client : LaBella Associates, P.C. **Lab Number** : L2339907
Project Name : PH II INVESTIGATION **Project Number** : 2230119
Matrix (Level) : SOIL (LOW)
LCS Sample ID : WG1803858-2 **Analysis Date** : 07/19/23 01:38 **File ID** : 803858-2
LCSD Sample ID : WG1803858-3 **Analysis Date** : 07/19/23 02:01 **File ID** : 803858-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
Benzo(a)anthracene	1300	1000	76	1300	830	63	19	40-140	50
Benzo(a)pyrene	1300	1100	85	1300	910	69	21	40-140	50
Benzo(b)fluoranthene	1300	1000	77	1300	820	62	22	40-140	50
Benzo(k)fluoranthene	1300	970	73	1300	800	61	18	40-140	50
Chrysene	1300	960	73	1300	800	61	18	40-140	50
Acenaphthylene	1300	1200	89	1300	980	75	17	40-140	50
Anthracene	1300	1000	77	1300	830	63	20	40-140	50
Benzo(ghi)perylene	1300	1000	76	1300	830	63	19	40-140	50
Fluorene	1300	1000	78	1300	860	65	18	40-140	50
Phenanthrene	1300	970	74	1300	790	60	21	40-140	50
Dibenzo(a,h)anthracene	1300	1000	76	1300	820	62	20	40-140	50
Indeno(1,2,3-cd)pyrene	1300	1100	84	1300	910	69	20	40-140	50
Pyrene	1300	1000	79	1300	840	64	21	35-142	50
Biphenyl	1300	1000	80	1300	880	67	18	37-127	50
4-Chloroaniline	1300	1100	87	1300	970	74	16	40-140	50
2-Nitroaniline	1300	1200	92	1300	1000	78	16	47-134	50
3-Nitroaniline	1300	990	75	1300	860	66	13	26-129	50
4-Nitroaniline	1300	1100	81	1300	870	66	20	41-125	50
Dibenzofuran	1300	980	74	1300	820	62	18	40-140	50
2-Methylnaphthalene	1300	1000	79	1300	890	67	16	40-140	50
1,2,4,5-Tetrachlorobenzene	1300	1200	88	1300	960	73	19	40-117	50
Acetophenone	1300	1100	86	1300	940	71	19	14-144	50
2,4,6-Trichlorophenol	1300	1200	95	1300	1000	79	18	30-130	50
p-Chloro-m-cresol	1300	1200	90	1300	1000	78	14	26-103	50
2-Chlorophenol	1300	1100	82	1300	900	69	17	25-102	50
2,4-Dichlorophenol	1300	1200	90	1300	980	75	18	30-130	50



Laboratory Control Sample Summary

Form 3

Semivolatiles

Client : LaBella Associates, P.C. **Lab Number** : L2339907
Project Name : PH II INVESTIGATION **Project Number** : 2230119
Matrix (Level) : SOIL (LOW)
LCS Sample ID : WG1803858-2 **Analysis Date** : 07/19/23 01:38 **File ID** : 803858-2
LCSD Sample ID : WG1803858-3 **Analysis Date** : 07/19/23 02:01 **File ID** : 803858-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
2,4-Dimethylphenol	1300	1100	86	1300	960	73	16	30-130	50
2-Nitrophenol	1300	1300	102	1300	1100	84	19	30-130	50
4-Nitrophenol	1300	1300	102	1300	1100	84	19	11-114	50
2,4-Dinitrophenol	1300	650	49	1300	600	46	6	4-130	50
4,6-Dinitro-o-cresol	1300	1300	102	1300	1100	85	18	10-130	50
Pentachlorophenol	1300	980	75	1300	810	62	19	17-109	50
Phenol	1300	1000	80	1300	910	69	15	26-90	50
2-Methylphenol	1300	1100	87	1300	950	72	19	30-130	50
3-Methylphenol/4-Methylphenol	1300	1200	95	1300	1000	80	17	30-130	50
2,4,5-Trichlorophenol	1300	1200	90	1300	1000	77	16	30-130	50
Carbazole	1300	1000	77	1300	840	64	18	54-128	50
Atrazine	1300	1400	104	1300	1100	85	20	40-140	50
Benzaldehyde	1300	1200	94	1300	1000	78	19	40-140	50
Caprolactam	1300	1200	90	1300	980	74	20	15-130	50
2,3,4,6-Tetrachlorophenol	1300	1100	85	1300	940	72	17	40-140	50



Laboratory Control Sample Summary

Form 3

Semivolatiles

Client : LaBella Associates, P.C. **Lab Number** : L2339907
Project Name : PH II INVESTIGATION **Project Number** : 2230119
Matrix (Level) : SOIL (LOW)
LCS Sample ID : WG1804755-2 **Analysis Date** : 07/19/23 08:24 **File ID** : 804755-2
LCSD Sample ID : WG1804755-3 **Analysis Date** : 07/19/23 08:41 **File ID** : 804755-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
Acenaphthene	1300	890	68	1300	910	69	1	31-137	50
Hexachlorobenzene	1300	810	62	1300	840	64	3	40-140	50
Bis(2-chloroethyl)ether	1300	940	72	1300	930	71	1	40-140	50
2-Chloronaphthalene	1300	930	71	1300	970	74	4	40-140	50
3,3'-Dichlorobenzidine	1300	780	60	1300	880	67	11	40-140	50
2,4-Dinitrotoluene	1300	1000	78	1300	1100	81	4	40-132	50
2,6-Dinitrotoluene	1300	1000	79	1300	1100	83	5	40-140	50
Fluoranthene	1300	910	69	1300	960	73	6	40-140	50
4-Chlorophenyl phenyl ether	1300	840	64	1300	860	65	2	40-140	50
4-Bromophenyl phenyl ether	1300	830	63	1300	850	65	3	40-140	50
Bis(2-chloroisopropyl)ether	1300	1200	92	1300	1200	89	3	40-140	50
Bis(2-chloroethoxy)methane	1300	1000	77	1300	980	75	3	40-117	50
Hexachlorobutadiene	1300	810	62	1300	790	60	3	40-140	50
Hexachlorocyclopentadiene	1300	610	46	1300	600	46	0	40-140	50
Hexachloroethane	1300	950	72	1300	890	68	6	40-140	50
Isophorone	1300	1000	78	1300	1000	77	1	40-140	50
Naphthalene	1300	930	71	1300	930	71	0	40-140	50
Nitrobenzene	1300	980	75	1300	980	74	1	40-140	50
NDPA/DPA	1300	930	71	1300	970	74	4	36-157	50
n-Nitrosodi-n-propylamine	1300	1100	82	1300	1000	79	4	32-121	50
Bis(2-ethylhexyl)phthalate	1300	1000	78	1300	1000	78	0	40-140	50
Butyl benzyl phthalate	1300	1200	89	1300	1200	93	4	40-140	50
Di-n-butylphthalate	1300	1100	85	1300	1200	88	3	40-140	50
Di-n-octylphthalate	1300	1100	82	1300	1100	84	2	40-140	50
Diethyl phthalate	1300	990	76	1300	1000	78	3	40-140	50
Dimethyl phthalate	1300	970	74	1300	1000	76	3	40-140	50



Laboratory Control Sample Summary

Form 3

Semivolatiles

Client : LaBella Associates, P.C. **Lab Number** : L2339907
Project Name : PH II INVESTIGATION **Project Number** : 2230119
Matrix (Level) : SOIL (LOW)
LCS Sample ID : WG1804755-2 **Analysis Date** : 07/19/23 08:24 **File ID** : 804755-2
LCSD Sample ID : WG1804755-3 **Analysis Date** : 07/19/23 08:41 **File ID** : 804755-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
Benzo(a)anthracene	1300	980	75	1300	1000	77	3	40-140	50
Benzo(a)pyrene	1300	1100	84	1300	1100	87	4	40-140	50
Benzo(b)fluoranthene	1300	1000	77	1300	980	75	3	40-140	50
Benzo(k)fluoranthene	1300	960	73	1300	1000	79	8	40-140	50
Chrysene	1300	950	73	1300	980	75	3	40-140	50
Acenaphthylene	1300	990	76	1300	1000	79	4	40-140	50
Anthracene	1300	980	75	1300	1000	79	5	40-140	50
Benzo(ghi)perylene	1300	980	75	1300	1000	78	4	40-140	50
Fluorene	1300	870	67	1300	880	67	0	40-140	50
Phenanthrene	1300	940	72	1300	990	75	4	40-140	50
Dibenzo(a,h)anthracene	1300	990	76	1300	1000	76	0	40-140	50
Indeno(1,2,3-cd)pyrene	1300	1000	78	1300	1000	80	3	40-140	50
Pyrene	1300	920	70	1300	960	73	4	35-142	50
Biphenyl	1300	950	72	1300	960	73	1	37-127	50
4-Chloroaniline	1300	720	55	1300	770	58	5	40-140	50
2-Nitroaniline	1300	1100	86	1300	1200	90	5	47-134	50
3-Nitroaniline	1300	840	65	1300	970	74	13	26-129	50
4-Nitroaniline	1300	940	71	1300	990	75	5	41-125	50
Dibenzofuran	1300	920	70	1300	950	72	3	40-140	50
2-Methylnaphthalene	1300	930	71	1300	960	73	3	40-140	50
1,2,4,5-Tetrachlorobenzene	1300	820	63	1300	820	62	2	40-117	50
Acetophenone	1300	1100	81	1300	1000	79	3	14-144	50
2,4,6-Trichlorophenol	1300	990	75	1300	990	76	1	30-130	50
p-Chloro-m-cresol	1300	1000	79	1300	1100	83	5	26-103	50
2-Chlorophenol	1300	1000	78	1300	1000	79	1	25-102	50
2,4-Dichlorophenol	1300	1000	78	1300	1000	77	1	30-130	50



Laboratory Control Sample Summary

Form 3

Semivolatiles

Client : LaBella Associates, P.C. **Lab Number** : L2339907
Project Name : PH II INVESTIGATION **Project Number** : 2230119
Matrix (Level) : SOIL (LOW)
LCS Sample ID : WG1804755-2 **Analysis Date** : 07/19/23 08:24 **File ID** : 804755-2
LCSD Sample ID : WG1804755-3 **Analysis Date** : 07/19/23 08:41 **File ID** : 804755-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
2,4-Dimethylphenol	1300	980	75	1300	990	76	1	30-130	50
2-Nitrophenol	1300	1200	88	1300	1100	86	2	30-130	50
4-Nitrophenol	1300	1000	78	1300	1000	78	0	11-114	50
2,4-Dinitrophenol	1300	450	35	1300	400	30	15	4-130	50
4,6-Dinitro-o-cresol	1300	920	70	1300	920	70	0	10-130	50
Pentachlorophenol	1300	640	49	1300	650	49	0	17-109	50
Phenol	1300	1100	83	1300	1100	83	0	26-90	50
2-Methylphenol	1300	980	75	1300	960	73	3	30-130.	50
3-Methylphenol/4-Methylphenol	1300	1000	77	1300	1000	77	0	30-130	50
2,4,5-Trichlorophenol	1300	1000	77	1300	1000	76	1	30-130	50
Carbazole	1300	1000	78	1300	1100	81	4	54-128	50
Atrazine	1300	920	70	1300	940	72	3	40-140	50
Benzaldehyde	1300	1300	98	1300	1200	93	5	40-140	50
Caprolactam	1300	1300	102	1300	1400	105	3	15-130	50
2,3,4,6-Tetrachlorophenol	1300	820	63	1300	850	65	3	40-140	50



Matrix Spike Sample Summary

Form 3

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Client Sample ID : TP-02-3-4FT
Lab Sample ID : L2339907-02
Matrix Spike : WG1803858-4
Matrix Spike Dup : WG1803858-5

Lab Number : L2339907
Project Number : 2230119
Matrix (Level) : SOIL (LOW)
Analysis Date : 07/19/23 05:32
MS Analysis Date : 07/19/23 05:56
MSD Analysis Date : 07/19/23 06:19

Parameter	Sample Conc. (ug/kg)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R			
Acenaphthene	ND	1480	880	59	1490	1100	74	22	31-137	50
Hexachlorobenzene	ND	1480	900	61	1490	1100	74	20	40-140	50
Bis(2-chloroethyl)ether	ND	1480	970	66	1490	1200	80	21	40-140	50
2-Chloronaphthalene	ND	1480	940	64	1490	1200	80	24	40-140	50
3,3'-Dichlorobenzidine	ND	1480	950	64	1490	1100	74	15	40-140	50
2,4-Dinitrotoluene	ND	1480	1000	68	1490	1200	80	18	40-132	50
2,6-Dinitrotoluene	ND	1480	1000	68	1490	1200	80	18	40-140	50
Fluoranthene	ND	1480	920	62	1490	1100	74	18	40-140	50
4-Chlorophenyl phenyl ether	ND	1480	890	60	1490	1100	74	21	40-140	50
4-Bromophenyl phenyl ether	ND	1480	910	62	1490	1100	74	19	40-140	50
Bis(2-chloroisopropyl)ether	ND	1480	720	49	1490	870	58	19	40-140	50
Bis(2-chloroethoxy)methane	ND	1480	1000	68	1490	1300	87	26	40-117	50
Hexachlorobutadiene	ND	1480	990	67	1490	1200	80	19	40-140	50
Hexachlorocyclopentadiene	ND	1480	320J	22 Q	1490	370J	25 Q	14	40-140	50
Hexachloroethane	ND	1480	900	61	1490	1000	67	11	40-140	50
Isophorone	ND	1480	1100	74	1490	1400	94	24	40-140	50
Naphthalene	ND	1480	920	62	1490	1100	74	18	40-140	50
Nitrobenzene	ND	1480	1100	74	1490	1400	94	24	40-140	50
NDPA/DPA	ND	1480	890	60	1490	1100	74	21	36-157	50
n-Nitrosodi-n-propylamine	ND	1480	1100	74	1490	1400	94	24	32-121	50
Bis(2-ethylhexyl)phthalate	ND	1480	930	63	1490	1200	80	25	40-140	50
Butyl benzyl phthalate	ND	1480	990	67	1490	1200	80	19	40-140	50



Matrix Spike Sample Summary

Form 3

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Client Sample ID : TP-02-3-4FT
Lab Sample ID : L2339907-02
Matrix Spike : WG1803858-4
Matrix Spike Dup : WG1803858-5

Lab Number : L2339907
Project Number : 2230119
Matrix (Level) : SOIL (LOW)
Analysis Date : 07/19/23 05:32
MS Analysis Date : 07/19/23 05:56
MSD Analysis Date : 07/19/23 06:19

Parameter	Sample Conc. (ug/kg)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R			
Di-n-butylphthalate	ND	1480	1000	68	1490	1300	87	26	40-140	50
Di-n-octylphthalate	ND	1480	1000	68	1490	1200	80	18	40-140	50
Diethyl phthalate	ND	1480	960	65	1490	1200	80	22	40-140	50
Dimethyl phthalate	ND	1480	970	66	1490	1200	80	21	40-140	50
Benzo(a)anthracene	ND	1480	900	61	1490	1100	74	20	40-140	50
Benzo(a)pyrene	ND	1480	1000	68	1490	1200	80	18	40-140	50
Benzo(b)fluoranthene	ND	1480	910	62	1490	1100	74	19	40-140	50
Benzo(k)fluoranthene	ND	1480	860	58	1490	1000	67	15	40-140	50
Chrysene	ND	1480	850	57	1490	1000	67	16	40-140	50
Acenaphthylene	ND	1480	1000	68	1490	1300	87	26	40-140	50
Anthracene	ND	1480	900	61	1490	1100	74	20	40-140	50
Benzo(ghi)perylene	ND	1480	890	60	1490	1000	67	12	40-140	50
Fluorene	ND	1480	900	61	1490	1100	74	20	40-140	50
Phenanthrene	ND	1480	860	58	1490	1000	67	15	40-140	50
Dibenzo(a,h)anthracene	ND	1480	880	59	1490	1100	74	22	40-140	50
Indeno(1,2,3-cd)pyrene	ND	1480	990	67	1490	1200	80	19	40-140	50
Pyrene	ND	1480	900	61	1490	1100	74	20	35-142	50
Biphenyl	ND	1480	940	64	1490	1200	80	24	37-127	50
4-Chloroaniline	ND	1480	1100	74	1490	1400	94	24	40-140	50
2-Nitroaniline	ND	1480	1100	74	1490	1400	94	24	47-134	50
3-Nitroaniline	ND	1480	1000	68	1490	1200	80	18	26-129	50
4-Nitroaniline	ND	1480	970	66	1490	1200	80	21	41-125	50



Matrix Spike Sample Summary

Form 3

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Client Sample ID : TP-02-3-4FT
Lab Sample ID : L2339907-02
Matrix Spike : WG1803858-4
Matrix Spike Dup : WG1803858-5

Lab Number : L2339907
Project Number : 2230119
Matrix (Level) : SOIL (LOW)
Analysis Date : 07/19/23 05:32
MS Analysis Date : 07/19/23 05:56
MSD Analysis Date : 07/19/23 06:19

Parameter	Sample Conc. (ug/kg)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R			
Dibenzofuran	ND	1480	880	59	1490	1100	74	22	40-140	50
2-Methylnaphthalene	ND	1480	960	65	1490	1200	80	22	40-140	50
1,2,4,5-Tetrachlorobenzene	ND	1480	1000	68	1490	1300	87	26	40-117	50
Acetophenone	ND	1480	1000	68	1490	1200	80	18	14-144	50
2,4,6-Trichlorophenol	ND	1480	1100	74	1490	1400	94	24	30-130	50
p-Chloro-m-cresol	ND	1480	1100	74	1490	1300	87	17	26-103	50
2-Chlorophenol	ND	1480	980	66	1490	1200	80	20	25-102	50
2,4-Dichlorophenol	ND	1480	1100	74	1490	1300	87	17	30-130	50
2,4-Dimethylphenol	ND	1480	950	64	1490	1200	80	23	30-130	50
2-Nitrophenol	ND	1480	1200	81	1490	1400	94	15	30-130	50
4-Nitrophenol	ND	1480	1100	74	1490	1400	94	24	11-114	50
2,4-Dinitrophenol	ND	1480	220J	15	1490	210J	14	5	4-130	50
4,6-Dinitro-o-cresol	ND	1480	360J	24	1490	400J	27	11	10-130	50
Pentachlorophenol	ND	1480	870	59	1490	1000	67	14	17-109	50
Phenol	ND	1480	960	65	1490	1200	80	22	26-90	50
2-Methylphenol	ND	1480	980	66	1490	1200	80	20	30-130	50
3-Methylphenol/4-Methylphenol	ND	1480	1100	74	1490	1300	87	17	30-130	50
2,4,5-Trichlorophenol	ND	1480	1100	74	1490	1300	87	17	30-130	50
Carbazole	ND	1480	920	62	1490	1100	74	18	54-128	50
Atrazine	ND	1480	1200	81	1490	1500	100	22	40-140	50
Benzaldehyde	ND	1480	1200	81	1490	1400	94	15	40-140	50
Caprolactam	ND	1480	960	65	1490	1200	80	22	15-130	50



Matrix Spike Sample Summary

Form 3

Semivolatiles

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Client Sample ID : TP-02-3-4FT	Matrix (Level) : SOIL (LOW)
Lab Sample ID : L2339907-02	Analysis Date : 07/19/23 05:32
Matrix Spike : WG1803858-4	MS Analysis Date : 07/19/23 05:56
Matrix Spike Dup : WG1803858-5	MSD Analysis Date : 07/19/23 06:19

Parameter	Sample Conc. (ug/kg)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R			
2,3,4,6-Tetrachlorophenol	ND	1480	1000	68	1490	1300	87	26	40-140	50



Method Blank Summary

Form 4

Semivolatiles

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab Sample ID	: WG1803858-1	Lab File ID	: 803858-1
Instrument ID	: SV103	Extraction Date	: 07/16/23
Matrix	: SOIL	Analysis Date	: 07/19/23 01:14
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1803858-2LCS	WG1803858-2	07/19/23 01:38
WG1803858-3LCSD	WG1803858-3	07/19/23 02:01
TP-02-3-4FT	L2339907-02	07/19/23 05:32
TP-02-3-4FTMS	WG1803858-4	07/19/23 05:56
TP-02-3-4FTMSD	WG1803858-5	07/19/23 06:19
TP-03-0.5-2 FT	L2339907-03	07/19/23 06:42
TP-05-0.5-2.5 FT	L2339907-05	07/19/23 07:06
TP-06-0.4-3 FT	L2339907-06	07/19/23 07:29
TP-07-2.0-4.5 FT	L2339907-07	07/19/23 07:53



**Method Blank Summary
Form 4
Semivolatiles**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab Sample ID	: WG1804755-1	Lab File ID	: 804755-1
Instrument ID	: SV124	Extraction Date	: 07/18/23
Matrix	: SOIL	Analysis Date	: 07/19/23 08:08
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1804755-2LCS	WG1804755-2	07/19/23 08:24
WG1804755-3LCSD	WG1804755-3	07/19/23 08:41
TP-04-0.5-2.5 FT	L2339907-04	07/20/23 22:42
BD-01-3-4 FT	L2339907-09	07/20/23 22:59



Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Instrument ID	: SV103	Analysis Date	: 05/15/23 20:57
Tune Standard	: R1696048-34	Tune File ID	: Tune1a_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	38.9
68	Less than 2.0% of mass 69	0.5 (1.3)1
69		100
70	Less than 2.0% of mass 69	0.1 (.4)1
127	10.0 - 80.0% of Base Peak	50.4
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	25
365	Greater than 1.0% of mass 198	3.1
441	Present, but less than 24% of mass 442	16.8
442	Base Peak, or >50% of mass 198	90.2
443	15.0 - 24.0% of mass 442	16.7 (18.5)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL10	R1696048-2	ABNL10	05/15/23 21:20
ABNL9	R1696048-9	ABNL9	05/15/23 21:43
ABNL8	R1696048-10	ABNL8	05/15/23 22:07
ABNL7	R1696048-7	ABNL7	05/15/23 22:30
ABNL6	R1696048-8	ABNL6	05/15/23 22:53
ABNL5	R1696048-5	ABNL5	05/15/23 23:17
ABNL4	R1696048-6	ABNL4	05/15/23 23:40
ABNL3	R1696048-4	ABNL3	05/16/23 00:03
ABNL2	R1696048-3	ABNL2	05/16/23 00:27
ABNL1	R1696048-1	ABNL1	05/16/23 00:51
AP9L10	R1696048-22	AP9L10	05/16/23 01:14
AP9L9	R1696048-30	AP9L9	05/16/23 01:37
AP9L8	R1696048-29	AP9L8	05/16/23 02:01
AP9L7	R1696048-28	AP9L7	05/16/23 02:24
AP9L6	R1696048-26	AP9L6	05/16/23 02:48
AP9L5	R1696048-27	AP9L5	05/16/23 03:11
AP9L4	R1696048-25	AP9L4	05/16/23 03:35
AP9L3	R1696048-24	AP9L3	05/16/23 03:58
AP9L2	R1696048-23	AP9L2	05/16/23 04:21
AP9L1	R1696048-20	AP9L1	05/16/23 04:45
ABN ICV Quant Report	R1696048-31	ABNICV	05/16/23 05:08
AP9 Quant Report	R1696048-33	AP9ICV	05/16/23 05:32



**Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Instrument ID	: SV103	Analysis Date	: 05/16/23 09:38
Tune Standard	: R1696048-35	Tune File ID	: Tune2b_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	38.2
68	Less than 2.0% of mass 69	0.4 (1.1)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	49.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 60.0% of Base Peak	24.7
365	Greater than 1.0% of mass 198	3.1
441	Present, but less than 24% of mass 442	16.3
442	Base Peak, or >50% of mass 198	91.3
443	15.0 - 24.0% of mass 442	17.9 (19.6)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL10b	R1696048-12	ADPL10B	05/16/23 10:02
ADPL9b	R1696048-21	ADPL9B	05/16/23 10:25
ADPL8b	R1696048-18	ADPL8B	05/16/23 10:49
ADPL7b	R1696048-17	ADPL7B	05/16/23 11:12
ADPL6b	R1696048-19	ADPL6B	05/16/23 11:35
ADPL5b	R1696048-16	ADPL5B	05/16/23 11:59
ADPL4b	R1696048-15	ADPL4B	05/16/23 12:22
ADPL3b	R1696048-13	ADPL3B	05/16/23 12:45
ADPL2b	R1696048-14	ADPL2B	05/16/23 13:09
ADPL1b	R1696048-11	ADPL1B	05/16/23 13:32
ADP ICV Quant Report	R1696048-32	ADPICVB	05/16/23 13:55



**Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Instrument ID	: SV103	Analysis Date	: 07/18/23 20:30
Tune Standard	: WG1804789-1	Tune File ID	: DEG0718n_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	39.3
68	Less than 2.0% of mass 69	0.6 (1.3)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	53.4
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	24.6
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than 24% of mass 442	18.5
442	Base Peak, or >50% of mass 198	65.6
443	15.0 - 24.0% of mass 442	13.9 (21.2)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1804789-6TFACTOR-B	WG1804789-6	DEG0718N	07/18/23 20:30
WG1804789-7TFACTOR-P	WG1804789-7	DEG0718N	07/18/23 20:30
WG1804789-5CCAL	WG1804789-5	ADP0718N	07/18/23 20:54
WG1804789-3CCAL	WG1804789-3	ABN0718N	07/18/23 21:19
WG1804789-4CCAL	WG1804789-4	AP90718N	07/18/23 21:42
WG1803858-1BLANK	WG1803858-1	803858-1	07/19/23 01:14
WG1803858-2LCS	WG1803858-2	803858-2	07/19/23 01:38
WG1803858-3LCSD	WG1803858-3	803858-3	07/19/23 02:01
TP-02-3-4FT	L2339907-02	39907-02	07/19/23 05:32
WG1803858-4MS	WG1803858-4	803858-4	07/19/23 05:56
WG1803858-5MSD	WG1803858-5	803858-5	07/19/23 06:19
TP-03-0.5-2 FT	L2339907-03	39907-03	07/19/23 06:42
TP-05-0.5-2.5 FT	L2339907-05	39907-05	07/19/23 07:06
TP-06-0.4-3 FT	L2339907-06	39907-06	07/19/23 07:29
TP-07-2.0-4.5 FT	L2339907-07	39907-07	07/19/23 07:53



**Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Instrument ID	: SV124	Analysis Date	: 05/26/23 17:08
Tune Standard	: R1701560-34	Tune File ID	: TUNE1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	61.4
68	Less than 2.0% of mass 69	0.5 (.9)1
69		100
70	Less than 2.0% of mass 69	0.3 (.5)1
127	10.0 - 80.0% of Base Peak	53.4
197	Less than 2.0% of mass 198	0.4
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	25.2
365	Greater than 1.0% of mass 198	3.4
441	Present, but less than 24% of mass 442	16.1
442	Base Peak, or >50% of mass 198	83.6
443	15.0 - 24.0% of mass 442	15.7 (18.8)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL10	R1701560-2	ABNL10	05/26/23 17:25
ABNL9	R1701560-10	ABNL9	05/26/23 17:42
ABNL8	R1701560-9	ABNL8	05/26/23 17:59
ABNL7	R1701560-7	ABNL7	05/26/23 18:16
ABNL6	R1701560-8	ABNL6	05/26/23 18:33
ABNL5	R1701560-6	ABNL5	05/26/23 18:50
ABNL4	R1701560-4	ABNL4	05/26/23 19:07
ABNL3	R1701560-5	ABNL3	05/26/23 19:23
ABNL2	R1701560-3	ABNL2	05/26/23 19:40
ABNL1	R1701560-1	ABNL1	05/26/23 19:57
AP9L10	R1701560-22	AP9L10	05/26/23 20:14
AP9L9	R1701560-30	AP9L9	05/26/23 20:31
AP9L8	R1701560-29	AP9L8	05/26/23 20:47
AP9L7	R1701560-28	AP9L7	05/26/23 21:04
AP9L6	R1701560-27	AP9L6	05/26/23 21:21
AP9L5	R1701560-25	AP9L5	05/26/23 21:37
AP9L4	R1701560-26	AP9L4	05/26/23 21:54
AP9L3	R1701560-23	AP9L3	05/26/23 22:11
AP9L2	R1701560-24	AP9L2	05/26/23 22:27
AP9L1	R1701560-21	AP9L1	05/26/23 22:44
ABN ICV Quant Report	R1701560-31	ABNICV	05/26/23 23:01
AP9 ICV Quant Report	R1701560-33	AP9ICV	05/26/23 23:17
ADPL10	R1701560-12	ADPL10	05/26/23 23:34
ADPL9	R1701560-20	ADPL9	05/26/23 23:51
ADPL8	R1701560-19	ADPL8	05/27/23 00:08



Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Instrument ID	: SV124	Analysis Date	: 05/26/23 17:08
Tune Standard	: R1701560-18	Tune File ID	: TUNE1_tune

	<u>m/e</u>	<u>Ion Abundance Criteria</u>		<u>%Relative Abundance</u>
ADPL7		R1701560-18	ADPL7	05/27/23 00:25
ADPL6		R1701560-16	ADPL6	05/27/23 00:42
ADPL5		R1701560-17	ADPL5	05/27/23 00:59
ADPL4		R1701560-14	ADPL4	05/27/23 01:16
ADPL3		R1701560-15	ADPL3	05/27/23 01:33
ADPL2		R1701560-13	ADPL2	05/27/23 01:50
ADPL1		R1701560-11	ADPL1	05/27/23 02:07
ADP ICV Quant Report		R1701560-32	ADPICV	05/27/23 02:24



**Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)**

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Instrument ID : SV124	Analysis Date : 07/19/23 06:48
Tune Standard : WG1804924-1	Tune File ID : DEG0719_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	61.2
68	Less than 2.0% of mass 69	0.8 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.4 (.8)1
127	10.0 - 80.0% of Base Peak	56.5
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	26
365	Greater than 1.0% of mass 198	3.3
441	Present, but less than 24% of mass 442	15.9
442	Base Peak, or >50% of mass 198	87.1
443	15.0 - 24.0% of mass 442	16.2 (18.6)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1804924-6TFACTOR-B	WG1804924-6	DEG0719	07/19/23 06:48
WG1804924-7TFACTOR-P	WG1804924-7	DEG0719	07/19/23 06:48
WG1804924-3CCAL	WG1804924-3	ABN0719	07/19/23 07:10
WG1804924-4CCAL	WG1804924-4	AP90719	07/19/23 07:27
WG1804924-5CCAL	WG1804924-5	ADP0719	07/19/23 07:44
WG1804755-1BLANK	WG1804755-1	804755-1	07/19/23 08:08
WG1804755-2LCS	WG1804755-2	804755-2	07/19/23 08:24
WG1804755-3LCSD	WG1804755-3	804755-3	07/19/23 08:41



**Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)**

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Instrument ID : SV124	Analysis Date : 07/20/23 18:32
Tune Standard : WG1805740-1	Tune File ID : DEG0720na_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	56
68	Less than 2.0% of mass 69	0.7 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	53
197	Less than 2.0% of mass 198	0.8
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.4
275	10.0 - 60.0% of Base Peak	24.8
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	16.6
442	Base Peak, or >50% of mass 198	92.4
443	15.0 - 24.0% of mass 442	17.9 (19.4)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1805740-6TFACTOR-B	WG1805740-6	DEG0720NA	07/20/23 18:32
WG1805740-7TFACTOR-P	WG1805740-7	DEG0720NA	07/20/23 18:32
WG1805740-3CCAL	WG1805740-3	ABN0720NA	07/20/23 18:48
WG1805740-4CCAL	WG1805740-4	AP90720NA	07/20/23 19:05
WG1805740-5CCAL	WG1805740-5	ADP0720NA	07/20/23 19:22
TP-04-0.5-2.5 FT	L2339907-04	39907-04	07/20/23 22:42
BD-01-3-4 FT	L2339907-09	39907-09	07/20/23 22:59



Internal Standard Area and RT Summary

Form 8a

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV103
 Sample No : WG1804789-3

Lab Number : L2339907
 Project Number : 2230119
 Analysis Date : 07/18/23 21:19:00
 Lab File ID : ABN0718N

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1804789-3	229645	3.82	870434	5.08	468195	6.77
Upper Limit	459290	4.32	1740868	5.58	936390	7.27
Lower Limit	114823	3.32	435217	4.58	234098	6.27
Sample ID						
WG1804789-5 CCAL	151650	3.82	-	-	314489	6.77
WG1804789-4 CCAL	170348	3.82	647727	5.08	342963	6.77
WG1803858-1 BLANK	191671	3.82	737791	5.08	408032	6.77
WG1803858-2 LCS	196011	3.82	777112	5.08	433453	6.77
WG1803858-3 LCSD	197922	3.82	780775	5.08	438142	6.77
TP-02-3-4FT	192800	3.82	763607	5.08	425565	6.77
TP-02-3-4FT MS	221267	3.82	874470	5.08	478407	6.77
TP-02-3-4FT MSD	204412	3.83	818086	5.08	450985	6.77
TP-03-0.5-2 FT	203451	3.82	801951	5.08	443755	6.77
TP-05-0.5-2.5 FT	212746	3.83	840974	5.08	463771	6.77
TP-06-0.4-3 FT	194435	3.82	764734	5.08	420301	6.77
TP-07-2.0-4.5 FT	209335	3.83	832800	5.08	454678	6.77

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits



Internal Standard Area and RT Summary

Form 8a

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV103
 Sample No : WG1804789-3

Lab Number : L2339907
 Project Number : 2230119
 Analysis Date : 07/18/23 20:54:00
 Lab File ID : ABN0718N

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1804789-3	951685	8.18	883111	10.74	990767	12.50
Upper Limit	1903370	8.68	1766222	11.24	1981534	13.00
Lower Limit	475843	7.68	441556	10.24	495384	12.00
Sample ID						
WG1804789-5 CCAL	639108	8.18	-	-	-	-
WG1804789-4 CCAL	702391	8.18	-	-	-	-
WG1803858-1 BLANK	827698	8.17	769129	10.73	902455	12.49
WG1803858-2 LCS	894258	8.18	843396	10.74	992840	12.50
WG1803858-3 LCSD	912753	8.17	831319	10.73	961990	12.49
TP-02-3-4FT	848993	8.17	753614	10.74	861152	12.49
TP-02-3-4FT MS	939851	8.18	855066	10.74	1003258	12.50
TP-02-3-4FT MSD	906037	8.18	800628	10.74	913873	12.50
TP-03-0.5-2 FT	892341	8.18	801397	10.74	917805	12.50
TP-05-0.5-2.5 FT	909702	8.18	814989	10.74	949408	12.50
TP-06-0.4-3 FT	848398	8.17	756986	10.74	866107	12.50
TP-07-2.0-4.5 FT	908623	8.18	805431	10.74	924942	12.50

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits



Internal Standard Area and RT Summary

Form 8a

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV124
 Sample No : WG1804924-3

Lab Number : L2339907
 Project Number : 2230119
 Analysis Date : 07/19/23 07:10:00
 Lab File ID : ABN0719

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1804924-3	83649	3.37	345862	4.15	189721	5.28
Upper Limit	167298	3.87	691724	4.65	379442	5.78
Lower Limit	41825	2.87	172931	3.65	94861	4.78
Sample ID						
WG1804924-4 CCAL	78776	3.37	330473	4.16	175556	5.29
WG1804924-5 CCAL	83138	3.37	-	-	188343	5.29
WG1804755-1 BLANK	85920	3.37	348866	4.15	207812	5.28
WG1804755-2 LCS	100445	3.37	409672	4.16	220045	5.28
WG1804755-3 LCSD	80877	3.37	325207	4.16	175152	5.28

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits



**Internal Standard Area and RT Summary
Form 8a
Semivolatiles**

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Sample No : WG1804924-3

Lab Number : L2339907
Project Number : 2230119
Analysis Date : 07/19/23 07:10:00
Lab File ID : ABN0719

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1804924-3	393875	6.24	362434	8.12	440891	9.21
Upper Limit	787750	6.74	724868	8.62	881782	9.71
Lower Limit	196938	5.74	181217	7.62	220446	8.71
Sample ID						
WG1804924-4 CCAL	342128	6.24	-	-	-	-
WG1804924-5 CCAL	380390	6.25	-	-	-	-
WG1804755-1 BLANK	422950	6.24	445203	8.12	561768	9.21
WG1804755-2 LCS	434095	6.24	379811	8.12	451076	9.21
WG1804755-3 LCSD	346045	6.24	307635	8.12	369007	9.21

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits



**Internal Standard Area and RT Summary
Form 8a
Semivolatiles**

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Sample No : WG1805740-3

Lab Number : L2339907
Project Number : 2230119
Analysis Date : 07/20/23 18:48:00
Lab File ID : ABN0720NA

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1805740-3	138416	3.35	577409	4.13	323195	5.25
Upper Limit	276832	3.85	1154818	4.63	646390	5.75
Lower Limit	69208	2.85	288705	3.63	161598	4.75
Sample ID						
WG1805740-4 CCAL	191385	3.36	808729	4.14	439260	5.26
WG1805740-5 CCAL	137483	3.36	-	-	320571	5.26
TP-04-0.5-2.5 FT	159612	3.36	679893	4.14	390496	5.26
BD-01-3-4 FT	162378	3.36	687575	4.14	394805	5.26

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits



Internal Standard Area and RT Summary Form 8a Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV124
 Sample No : WG1805740-3

Lab Number : L2339907
 Project Number : 2230119
 Analysis Date : 07/20/23 18:48:00
 Lab File ID : ABN0720NA

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1805740-3	662978	6.22	613530	8.10	720061	9.19
Upper Limit	1325956	6.72	1227060	8.60	1440122	9.69
Lower Limit	331489	5.72	306765	7.60	360031	8.69
Sample ID						
WG1805740-4 CCAL	933606	6.22	-	-	-	-
WG1805740-5 CCAL	672734	6.22	-	-	-	-
TP-04-0.5-2.5 FT	816495	6.22	688167	8.10	758518	9.19
BD-01-3-4 FT	792136	6.22	686494	8.10	785738	9.19

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits





Date Created: 03/07/23
 Created By: Jason Hebert
 File: PM14021-1
 Page: 1

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
 Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Acenaphthene	83-32-9	2	1.06	ug/l	37-111	30	37-111	30	30	
Benzidine	92-87-5	20	8.14	ug/l	10-75	30	10-75	30	30	
1,2,4-Trichlorobenzene	120-82-1	5	0.581	ug/l	39-98	30	39-98	30	30	
Hexachlorobenzene	118-74-1	2	0.69	ug/l	40-140	30	40-140	30	30	
Bis(2-chloroethyl)ether	111-44-4	2	0.884	ug/l	40-140	30	40-140	30	30	
2-Chloronaphthalene	91-58-7	2	0.538	ug/l	40-140	30	40-140	30	30	
1,2-Dichlorobenzene	95-50-1	2	0.636	ug/l	40-140	30	40-140	30	30	
1,3-Dichlorobenzene	541-73-1	2	0.642	ug/l	40-140	30	40-140	30	30	
1,4-Dichlorobenzene	106-46-7	2	0.463	ug/l	36-97	30	36-97	30	30	
3,3'-Dichlorobenzidine	91-94-1	5	0.854	ug/l	40-140	30	40-140	30	30	
2,4-Dinitrotoluene	121-14-2	5	0.382	ug/l	48-143	30	48-143	30	30	
2,6-Dinitrotoluene	606-20-2	5	0.368	ug/l	40-140	30	40-140	30	30	
Azobenzene	122-66-7	2	0.81	ug/l	40-140	30	40-140	30	30	
Fluoranthene	206-44-0	2	0.653	ug/l	40-140	30	40-140	30	30	
4-Chlorophenyl phenyl ether	7005-72-3	2	0.795	ug/l	40-140	30	40-140	30	30	
4-Bromophenyl phenyl ether	101-55-3	2	0.632	ug/l	40-140	30	40-140	30	30	
Bis(2-chloroisopropyl)ether	108-60-1	2	1.75	ug/l	40-140	30	40-140	30	30	
Bis(2-chloroethoxy)methane	111-91-1	5	1.49	ug/l	40-140	30	40-140	30	30	
Hexachlorobutadiene	87-68-3	2	0.6	ug/l	40-140	30	40-140	30	30	
Hexachlorocyclopentadiene	77-47-4	20	0.606	ug/l	40-140	30	40-140	30	30	
Hexachloroethane	67-72-1	2	0.44	ug/l	40-140	30	40-140	30	30	
Isophorone	78-59-1	5	0.657	ug/l	40-140	30	40-140	30	30	
Naphthalene	91-20-3	2	0.669	ug/l	40-140	30	40-140	30	30	
Nitrobenzene	98-95-3	2	0.656	ug/l	40-140	30	40-140	30	30	
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.65	ug/l	40-140	30	40-140	30	30	
n-Nitrosodi-n-propylamine	621-64-7	5	0.771	ug/l	29-132	30	29-132	30	30	
Bis(2-Ethylhexyl)phthalate	117-81-7	3	1.51	ug/l	40-140	30	40-140	30	30	
Butyl benzyl phthalate	85-68-7	5	2.18	ug/l	40-140	30	40-140	30	30	
Di-n-butylphthalate	84-74-2	5	0.58	ug/l	40-140	30	40-140	30	30	
Di-n-octylphthalate	117-84-0	5	2.39	ug/l	40-140	30	40-140	30	30	
Diethyl phthalate	84-66-2	5	4.3	ug/l	40-140	30	40-140	30	30	
Dimethyl phthalate	131-11-3	5	4.44	ug/l	40-140	30	40-140	30	30	
Benzo(a)anthracene	56-55-3	2	0.767	ug/l	40-140	30	40-140	30	30	
Benzo(a)pyrene	50-32-8	2	0.447	ug/l	40-140	30	40-140	30	30	
Benzo(b)fluoranthene	205-99-2	2	0.814	ug/l	40-140	30	40-140	30	30	
Benzo(k)fluoranthene	207-08-9	2	0.816	ug/l	40-140	30	40-140	30	30	
Chrysene	218-01-9	2	0.828	ug/l	40-140	30	40-140	30	30	
Acenaphthylene	208-96-8	2	0.59	ug/l	45-123	30	45-123	30	30	
Anthracene	120-12-7	2	0.79	ug/l	40-140	30	40-140	30	30	
Benzo(ghi)perylene	191-24-2	2	0.77	ug/l	40-140	30	40-140	30	30	
Fluorene	86-73-7	2	1.05	ug/l	40-140	30	40-140	30	30	
Phenanthrene	85-01-8	2	0.992	ug/l	40-140	30	40-140	30	30	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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 File: PM14021-1
 Page: 2

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
 Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Dibenzo(a,h)anthracene	53-70-3	2	0.452	ug/l	40-140	30	40-140	30	30	
Indeno(1,2,3-cd)Pyrene	193-39-5	2	0.943	ug/l	40-140	30	40-140	30	30	
Pyrene	129-00-0	2	0.704	ug/l	26-127	30	26-127	30	30	
Biphenyl	92-52-4	2	0.635	ug/l	40-140	30	40-140	30	30	
Aniline	62-53-3	2	0.482	ug/l	40-140	30	40-140	30	30	
4-Chloroaniline	106-47-8	5	0.647	ug/l	40-140	30	40-140	30	30	
1-Methylnaphthalene	90-12-0	2	0.595	ug/l	41-103	30	41-103	30	30	
2-Nitroaniline	88-74-4	5	0.519	ug/l	52-143	30	52-143	30	30	
3-Nitroaniline	99-09-2	5	0.574	ug/l	25-145	30	25-145	30	30	
4-Nitroaniline	100-01-6	5	0.581	ug/l	51-143	30	51-143	30	30	
Dibenzofuran	132-64-9	2	0.823	ug/l	40-140	30	40-140	30	30	
2-Methylnaphthalene	91-57-6	2	0.677	ug/l	40-140	30	40-140	30	30	
n-Nitrosodimethylamine	62-75-9	2	0.524	ug/l	22-74	30	22-74	30	30	
2,4,6-Trichlorophenol	88-06-2	5	0.494	ug/l	30-130	30	30-130	30	30	
p-Chloro-M-Cresol	59-50-7	2	0.406	ug/l	23-97	30	23-97	30	30	
2-Chlorophenol	95-57-8	2	0.405	ug/l	27-123	30	27-123	30	30	
2,4-Dichlorophenol	120-83-2	5	0.527	ug/l	30-130	30	30-130	30	30	
2,4-Dimethylphenol	105-67-9	5	1.1	ug/l	30-130	30	30-130	30	30	
2-Nitrophenol	88-75-5	10	0.463	ug/l	30-130	30	30-130	30	30	
4-Nitrophenol	100-02-7	10	1.14	ug/l	10-80	30	10-80	30	30	
2,4-Dinitrophenol	51-28-5	20	3.55	ug/l	20-130	30	20-130	30	30	
4,6-Dinitro-o-cresol	534-52-1	10	5.42	ug/l	20-164	30	20-164	30	30	
Pentachlorophenol	87-86-5	10	1.95	ug/l	9-103	30	9-103	30	30	
Phenol	108-95-2	5	1.3	ug/l	12-110	30	12-110	30	30	
2-Methylphenol	95-48-7	5	1.1	ug/l	30-130	30	30-130	30	30	
3-Methylphenol/4-Methylphenol	106-44-5	5	0.55	ug/l	30-130	30	30-130	30	30	
2,4,5-Trichlorophenol	95-95-4	5	0.381	ug/l	30-130	30	30-130	30	30	
Benzoic Acid	65-85-0	50	12.9	ug/l	10-164	30	10-164	30	30	
Benzyl Alcohol	100-51-6	2	0.698	ug/l	26-116	30	26-116	30	30	
Carbazole	86-74-8	2	0.759	ug/l	55-144	30	55-144	30	30	
Pyridine	110-86-1	3.5	0.905	ug/l	10-66	30	10-66	30	30	
2-Fluorophenol	367-12-4									21-120
Phenol-d6	13127-88-3									10-120
Nitrobenzene-d5	4165-60-0									23-120
2-Fluorobiphenyl	321-60-8									15-120
2,4,6-Tribromophenol	118-79-6									10-120
4-Terphenyl-d14	1718-51-0									41-149

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 Page: 1

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	133.6	17.3012	ug/kg	31-137	50	31-137	50	50			
Benzidine	92-87-5	551.1	181.028	ug/kg	10-66	50	10-66	50	50			
1,2,4-Trichlorobenzene	120-82-1	167	19.1048	ug/kg	38-107	50	38-107	50	50			
Hexachlorobenzene	118-74-1	100.2	18.704	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethyl)ether	111-44-4	150.3	22.6452	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	167	16.5664	ug/kg	40-140	50	40-140	50	50			
1,2-Dichlorobenzene	95-50-1	167	29.9932	ug/kg	40-140	50	40-140	50	50			
1,3-Dichlorobenzene	541-73-1	167	28.724	ug/kg	40-140	50	40-140	50	50			
1,4-Dichlorobenzene	106-46-7	167	29.1582	ug/kg	28-104	50	28-104	50	50			
3,3'-Dichlorobenzidine	91-94-1	167	44.422	ug/kg	40-140	50	40-140	50	50			
2,4-Dinitrotoluene	121-14-2	167	33.4	ug/kg	40-132	50	40-132	50	50			
2,6-Dinitrotoluene	606-20-2	167	28.6572	ug/kg	40-140	50	40-140	50	50			
Azobenzene	122-66-7	167	16.032	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	100.2	19.1716	ug/kg	40-140	50	40-140	50	50			
4-Chlorophenyl phenyl ether	7005-72-3	167	17.869	ug/kg	40-140	50	40-140	50	50			
4-Bromophenyl phenyl ether	101-55-3	167	25.4842	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroisopropyl)ether	108-60-1	200.4	28.5236	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethoxy)methane	111-91-1	180.36	16.7334	ug/kg	40-117	50	40-117	50	50			
Hexachlorobutadiene	87-68-3	167	24.4488	ug/kg	40-140	50	40-140	50	50			
Hexachlorocyclopentadiene	77-47-4	477.62	151.302	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	133.6	27.0206	ug/kg	40-140	50	40-140	50	50			
Isophorone	78-59-1	150.3	21.6766	ug/kg	40-140	50	40-140	50	50			
Naphthalene	91-20-3	167	20.3406	ug/kg	40-140	50	40-140	50	50			
Nitrobenzene	98-95-3	150.3	24.716	ug/kg	40-140	50	40-140	50	50			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	133.6	19.0046	ug/kg	36-157	50	36-157	50	50			
n-Nitrosodi-n-propylamine	621-64-7	167	25.7848	ug/kg	32-121	50	32-121	50	50			
Bis(2-Ethylhexyl)phthalate	117-81-7	167	57.782	ug/kg	40-140	50	40-140	50	50			
Butyl benzyl phthalate	85-68-7	167	42.084	ug/kg	40-140	50	40-140	50	50			
Di-n-butylphthalate	84-74-2	167	31.6632	ug/kg	40-140	50	40-140	50	50			
Di-n-octylphthalate	117-84-0	167	56.78	ug/kg	40-140	50	40-140	50	50			
Diethyl phthalate	84-66-2	167	15.4642	ug/kg	40-140	50	40-140	50	50			
Dimethyl phthalate	131-11-3	167	35.07	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	100.2	18.8042	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	133.6	40.748	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	100.2	28.1228	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	100.2	26.72	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	100.2	17.368	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	133.6	25.7848	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	100.2	32.565	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	133.6	19.6392	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	167	16.2324	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	100.2	20.3072	ug/kg	40-140	50	40-140	50	50			

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 File: PM14022-1
 Page: 2

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	100.2	19.3052	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	133.6	23.2798	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	100.2	16.5998	ug/kg	35-142	50	35-142	50	50			
Biphenyl	92-52-4	380.76	21.71	ug/kg	37-127	50	37-127	50	50			
Aniline	62-53-3	200.4	78.824	ug/kg	40-140	50	40-140	50	50			
4-Chloroaniline	106-47-8	167	30.394	ug/kg	40-140	50	40-140	50	50			
1-Methylnaphthalene	90-12-0	167	19.372	ug/kg	26-130	50	26-130	50	50			
2-Nitroaniline	88-74-4	167	32.1976	ug/kg	47-134	50	47-134	50	50			
3-Nitroaniline	99-09-2	167	31.4962	ug/kg	26-129	50	26-129	50	50			
4-Nitroaniline	100-01-6	167	69.138	ug/kg	41-125	50	41-125	50	50			
Dibenzofuran	132-64-9	167	15.7982	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	200.4	20.1736	ug/kg	40-140	50	40-140	50	50			
n-Nitrosodimethylamine	62-75-9	334	32.064	ug/kg	22-100	50	22-100	50	50			
2,4,6-Trichlorophenol	88-06-2	100.2	31.6632	ug/kg	30-130	50	30-130	50	50			
p-Chloro-M-Cresol	59-50-7	167	24.883	ug/kg	26-103	50	26-103	50	50			
2-Chlorophenol	95-57-8	167	19.7394	ug/kg	25-102	50	25-102	50	50			
2,4-Dichlorophenol	120-83-2	150.3	26.8536	ug/kg	30-130	50	30-130	50	50			
2,4-Dimethylphenol	105-67-9	167	55.11	ug/kg	30-130	50	30-130	50	50			
2-Nitrophenol	88-75-5	360.72	62.792	ug/kg	30-130	50	30-130	50	50			
4-Nitrophenol	100-02-7	233.8	68.136	ug/kg	11-114	50	11-114	50	50			
2,4-Dinitrophenol	51-28-5	801.6	77.822	ug/kg	4-130	50	4-130	50	50			
4,6-Dinitro-o-cresol	534-52-1	434.2	80.16	ug/kg	10-130	50	10-130	50	50			
Pentachlorophenol	87-86-5	133.6	36.74	ug/kg	17-109	50	17-109	50	50			
Phenol	108-95-2	167	25.217	ug/kg	26-90	50	26-90	50	50			
2-Methylphenol	95-48-7	167	25.885	ug/kg	30-130	50	30-130	50	50			
3-Methylphenol/4-Methylphenol	106-44-5	240.48	26.1522	ug/kg	30-130	50	30-130	50	50			
2,4,5-Trichlorophenol	95-95-4	167	31.9972	ug/kg	30-130	50	30-130	50	50			
Benzoic Acid	65-85-0	541.08	169.004	ug/kg	10-110	50	10-110	50	50			
Benzyl Alcohol	100-51-6	167	51.102	ug/kg	40-140	50	40-140	50	50			
Carbazole	86-74-8	167	16.2324	ug/kg	54-128	50	54-128	50	50			
Pyridine	110-86-1	180.36	63.46	ug/kg	10-93	50	10-93	50	50			
2-Fluorophenol	367-12-4											25-120
Phenol-d6	13127-88-3											10-120
Nitrobenzene-d5	4165-60-0											23-120
2-Fluorobiphenyl	321-60-8											30-120
2,4,6-Tribromophenol	118-79-6											10-136
4-Terphenyl-d14	1718-51-0											18-120

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Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-02	Date Collected : 07/11/23 14:30
Client ID : TP-02-3-4FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/19/23 05:32
Sample Matrix : SOIL	Date Extracted : 07/16/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-02	Analyst : EK
Sample Amount : 30.54 g	Instrument ID : SV103
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 89
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	150	19.	U
118-74-1	Hexachlorobenzene	ND	110	21.	U
111-44-4	Bis(2-chloroethyl)ether	ND	160	25.	U
91-58-7	2-Chloronaphthalene	ND	180	18.	U
91-94-1	3,3'-Dichlorobenzidine	ND	180	49.	U
121-14-2	2,4-Dinitrotoluene	ND	180	37.	U
606-20-2	2,6-Dinitrotoluene	ND	180	32.	U
206-44-0	Fluoranthene	ND	110	21.	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	180	20.	U
101-55-3	4-Bromophenyl phenyl ether	ND	180	28.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	220	31.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	200	18.	U
87-68-3	Hexachlorobutadiene	ND	180	27.	U
77-47-4	Hexachlorocyclopentadiene	ND	530	170	U
67-72-1	Hexachloroethane	ND	150	30.	U
78-59-1	Isophorone	ND	160	24.	U
91-20-3	Naphthalene	ND	180	22.	U
98-95-3	Nitrobenzene	ND	160	27.	U
86-30-6	NDPA/DPA	ND	150	21.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	180	28.	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	180	64.	U
85-68-7	Butyl benzyl phthalate	ND	180	46.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-02	Date Collected : 07/11/23 14:30
Client ID : TP-02-3-4FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/19/23 05:32
Sample Matrix : SOIL	Date Extracted : 07/16/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-02	Analyst : EK
Sample Amount : 30.54 g	Instrument ID : SV103
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 89
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
84-74-2	Di-n-butylphthalate	ND	180	35.	U
117-84-0	Di-n-octylphthalate	ND	180	63.	U
84-66-2	Diethyl phthalate	ND	180	17.	U
131-11-3	Dimethyl phthalate	ND	180	39.	U
56-55-3	Benzo(a)anthracene	ND	110	21.	U
50-32-8	Benzo(a)pyrene	ND	150	45.	U
205-99-2	Benzo(b)fluoranthene	ND	110	31.	U
207-08-9	Benzo(k)fluoranthene	ND	110	29.	U
218-01-9	Chrysene	ND	110	19.	U
208-96-8	Acenaphthylene	ND	150	28.	U
120-12-7	Anthracene	ND	110	36.	U
191-24-2	Benzo(ghi)perylene	ND	150	22.	U
86-73-7	Fluorene	ND	180	18.	U
85-01-8	Phenanthrene	ND	110	22.	U
53-70-3	Dibenzo(a,h)anthracene	ND	110	21.	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	150	26.	U
129-00-0	Pyrene	ND	110	18.	U
92-52-4	Biphenyl	ND	420	24.	U
106-47-8	4-Chloroaniline	ND	180	34.	U
88-74-4	2-Nitroaniline	ND	180	36.	U
99-09-2	3-Nitroaniline	ND	180	35.	U
100-01-6	4-Nitroaniline	ND	180	76.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-02	Date Collected : 07/11/23 14:30
Client ID : TP-02-3-4FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/19/23 05:32
Sample Matrix : SOIL	Date Extracted : 07/16/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-02	Analyst : EK
Sample Amount : 30.54 g	Instrument ID : SV103
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 89
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	180	17.	U
91-57-6	2-Methylnaphthalene	ND	220	22.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	19.	U
98-86-2	Acetophenone	ND	180	23.	U
88-06-2	2,4,6-Trichlorophenol	ND	110	35.	U
59-50-7	p-Chloro-m-cresol	ND	180	27.	U
95-57-8	2-Chlorophenol	ND	180	22.	U
120-83-2	2,4-Dichlorophenol	ND	160	30.	U
105-67-9	2,4-Dimethylphenol	ND	180	61.	U
88-75-5	2-Nitrophenol	ND	400	69.	U
100-02-7	4-Nitrophenol	ND	260	75.	U
51-28-5	2,4-Dinitrophenol	ND	880	86.	U
534-52-1	4,6-Dinitro-o-cresol	ND	480	88.	U
87-86-5	Pentachlorophenol	ND	150	40.	U
108-95-2	Phenol	ND	180	28.	U
95-48-7	2-Methylphenol	ND	180	28.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	260	29.	U
95-95-4	2,4,5-Trichlorophenol	ND	180	35.	U
86-74-8	Carbazole	ND	180	18.	U
1912-24-9	Atrazine	ND	150	64.	U
100-52-7	Benzaldehyde	ND	240	50.	U
105-60-2	Caprolactam	ND	180	56.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C. Project Name : PH II INVESTIGATION Lab ID : L2339907-02 Client ID : TP-02-3-4FT Sample Location : 42 YORK STREET, ROCHESTER NY Sample Matrix : SOIL Analytical Method : 1,8270E Lab File ID : 39907-02 Sample Amount : 30.54 g Extraction Method : EPA 3546 Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2339907 Project Number : 2230119 Date Collected : 07/11/23 14:30 Date Received : 07/12/23 Date Analyzed : 07/19/23 05:32 Date Extracted : 07/16/23 Dilution Factor : 1 Analyst : EK Instrument ID : SV103 GC Column : RTX5-MS %Solids : 89 Injection Volume : 1 uL
---	---

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	37.	U



**Tentatively Identified Compounds
Form 1
Semivolatile Organics by GC/MS**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-02	Date Collected	: 07/11/23 14:30
Client ID	: TP-02-3-4FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/19/23 05:32
Sample Matrix	: SOIL	Date Extracted	: 07/16/23
Analytical Method	: 1,8270E	Dilution Factor	: 1
Lab File ID	: 39907-02	Analyst	: EK
Sample Amount	: 30.54 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	:
Extract Volume	: 1000 uL	%Solids	: 89
GPC Cleanup	: N	Injection Volume	: 1 uL

Number TICS found: 0

Concentration Units: ug/Kg

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
NO TENTATIVELY IDENTIFIED COMPOUNDS				



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-03	Date Collected : 07/11/23 15:45
Client ID : TP-03-0.5-2 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/19/23 06:42
Sample Matrix : SOIL	Date Extracted : 07/16/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-03	Analyst : EK
Sample Amount : 30.09 g	Instrument ID : SV103
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 83
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	160	21.	U
118-74-1	Hexachlorobenzene	ND	120	22.	U
111-44-4	Bis(2-chloroethyl)ether	ND	180	27.	U
91-58-7	2-Chloronaphthalene	ND	200	20.	U
91-94-1	3,3'-Dichlorobenzidine	ND	200	53.	U
121-14-2	2,4-Dinitrotoluene	ND	200	40.	U
606-20-2	2,6-Dinitrotoluene	ND	200	34.	U
206-44-0	Fluoranthene	190	120	23.	
7005-72-3	4-Chlorophenyl phenyl ether	ND	200	21.	U
101-55-3	4-Bromophenyl phenyl ether	ND	200	30.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	240	34.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	220	20.	U
87-68-3	Hexachlorobutadiene	ND	200	29.	U
77-47-4	Hexachlorocyclopentadiene	ND	570	180	U
67-72-1	Hexachloroethane	ND	160	32.	U
78-59-1	Isophorone	ND	180	26.	U
91-20-3	Naphthalene	27	200	24.	J
98-95-3	Nitrobenzene	ND	180	29.	U
86-30-6	NDPA/DPA	ND	160	23.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	200	31.	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	200	69.	U
85-68-7	Butyl benzyl phthalate	ND	200	50.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-03	Date Collected : 07/11/23 15:45
Client ID : TP-03-0.5-2 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/19/23 06:42
Sample Matrix : SOIL	Date Extracted : 07/16/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-03	Analyst : EK
Sample Amount : 30.09 g	Instrument ID : SV103
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 83
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
84-74-2	Di-n-butylphthalate	ND	200	38.	U
117-84-0	Di-n-octylphthalate	ND	200	68.	U
84-66-2	Diethyl phthalate	ND	200	18.	U
131-11-3	Dimethyl phthalate	ND	200	42.	U
56-55-3	Benzo(a)anthracene	160	120	22.	
50-32-8	Benzo(a)pyrene	240	160	49.	
205-99-2	Benzo(b)fluoranthene	310	120	34.	
207-08-9	Benzo(k)fluoranthene	95	120	32.	J
218-01-9	Chrysene	180	120	21.	
208-96-8	Acenaphthylene	ND	160	31.	U
120-12-7	Anthracene	ND	120	39.	U
191-24-2	Benzo(ghi)perylene	160	160	23.	
86-73-7	Fluorene	ND	200	19.	U
85-01-8	Phenanthrene	66	120	24.	J
53-70-3	Dibenzo(a,h)anthracene	46	120	23.	J
193-39-5	Indeno(1,2,3-cd)pyrene	190	160	28.	
129-00-0	Pyrene	180	120	20.	
92-52-4	Biphenyl	ND	450	26.	U
106-47-8	4-Chloroaniline	ND	200	36.	U
88-74-4	2-Nitroaniline	ND	200	38.	U
99-09-2	3-Nitroaniline	ND	200	38.	U
100-01-6	4-Nitroaniline	ND	200	82.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-03	Date Collected : 07/11/23 15:45
Client ID : TP-03-0.5-2 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/19/23 06:42
Sample Matrix : SOIL	Date Extracted : 07/16/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-03	Analyst : EK
Sample Amount : 30.09 g	Instrument ID : SV103
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 83
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	200	19.	U
91-57-6	2-Methylnaphthalene	ND	240	24.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	21.	U
98-86-2	Acetophenone	ND	200	25.	U
88-06-2	2,4,6-Trichlorophenol	ND	120	38.	U
59-50-7	p-Chloro-m-cresol	ND	200	30.	U
95-57-8	2-Chlorophenol	ND	200	24.	U
120-83-2	2,4-Dichlorophenol	ND	180	32.	U
105-67-9	2,4-Dimethylphenol	ND	200	66.	U
88-75-5	2-Nitrophenol	ND	430	75.	U
100-02-7	4-Nitrophenol	ND	280	81.	U
51-28-5	2,4-Dinitrophenol	ND	960	93.	U
534-52-1	4,6-Dinitro-o-cresol	ND	520	96.	U
87-86-5	Pentachlorophenol	ND	160	44.	U
108-95-2	Phenol	ND	200	30.	U
95-48-7	2-Methylphenol	ND	200	31.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	290	31.	U
95-95-4	2,4,5-Trichlorophenol	ND	200	38.	U
86-74-8	Carbazole	ND	200	19.	U
1912-24-9	Atrazine	ND	160	70.	U
100-52-7	Benzaldehyde	ND	260	54.	U
105-60-2	Caprolactam	ND	200	60.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C. Project Name : PH II INVESTIGATION Lab ID : L2339907-03 Client ID : TP-03-0.5-2 FT Sample Location : 42 YORK STREET, ROCHESTER NY Sample Matrix : SOIL Analytical Method : 1,8270E Lab File ID : 39907-03 Sample Amount : 30.09 g Extraction Method : EPA 3546 Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2339907 Project Number : 2230119 Date Collected : 07/11/23 15:45 Date Received : 07/12/23 Date Analyzed : 07/19/23 06:42 Date Extracted : 07/16/23 Dilution Factor : 1 Analyst : EK Instrument ID : SV103 GC Column : RTX5-MS %Solids : 83 Injection Volume : 1 uL
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CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	200	40.	U



**Tentatively Identified Compounds
Form 1
Semivolatile Organics by GC/MS**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-03	Date Collected	: 07/11/23 15:45
Client ID	: TP-03-0.5-2 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/19/23 06:42
Sample Matrix	: SOIL	Date Extracted	: 07/16/23
Analytical Method	: 1,8270E	Dilution Factor	: 1
Lab File ID	: 39907-03	Analyst	: EK
Sample Amount	: 30.09 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	:
Extract Volume	: 1000 uL	%Solids	: 83
GPC Cleanup	: N	Injection Volume	: 1 uL

Number TICS found: 0

Concentration Units: ug/Kg

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
NO TENTATIVELY IDENTIFIED COMPOUNDS				



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-04	Date Collected : 07/12/23 08:00
Client ID : TP-04-0.5-2.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/20/23 22:42
Sample Matrix : SOIL	Date Extracted : 07/19/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-04	Analyst : LJG
Sample Amount : 30.83 g	Instrument ID : SV124
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 79
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	160	21.	U
118-74-1	Hexachlorobenzene	ND	120	23.	U
111-44-4	Bis(2-chloroethyl)ether	ND	180	28.	U
91-58-7	2-Chloronaphthalene	ND	200	20.	U
91-94-1	3,3'-Dichlorobenzidine	ND	200	55.	U
121-14-2	2,4-Dinitrotoluene	ND	200	41.	U
606-20-2	2,6-Dinitrotoluene	ND	200	35.	U
206-44-0	Fluoranthene	ND	120	24.	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	200	22.	U
101-55-3	4-Bromophenyl phenyl ether	ND	200	31.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	250	35.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	220	20.	U
87-68-3	Hexachlorobutadiene	ND	200	30.	U
77-47-4	Hexachlorocyclopentadiene	ND	590	180	U
67-72-1	Hexachloroethane	ND	160	33.	U
78-59-1	Isophorone	ND	180	27.	U
91-20-3	Naphthalene	ND	200	25.	U
98-95-3	Nitrobenzene	ND	180	30.	U
86-30-6	NDPA/DPA	ND	160	23.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	200	32.	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	200	71.	U
85-68-7	Butyl benzyl phthalate	ND	200	52.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-04	Date Collected : 07/12/23 08:00
Client ID : TP-04-0.5-2.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/20/23 22:42
Sample Matrix : SOIL	Date Extracted : 07/19/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-04	Analyst : LJG
Sample Amount : 30.83 g	Instrument ID : SV124
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 79
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
84-74-2	Di-n-butylphthalate	ND	200	39.	U
117-84-0	Di-n-octylphthalate	ND	200	70.	U
84-66-2	Diethyl phthalate	ND	200	19.	U
131-11-3	Dimethyl phthalate	ND	200	43.	U
56-55-3	Benzo(a)anthracene	ND	120	23.	U
50-32-8	Benzo(a)pyrene	ND	160	50.	U
205-99-2	Benzo(b)fluoranthene	ND	120	34.	U
207-08-9	Benzo(k)fluoranthene	ND	120	33.	U
218-01-9	Chrysene	ND	120	21.	U
208-96-8	Acenaphthylene	ND	160	32.	U
120-12-7	Anthracene	ND	120	40.	U
191-24-2	Benzo(ghi)perylene	ND	160	24.	U
86-73-7	Fluorene	ND	200	20.	U
85-01-8	Phenanthrene	ND	120	25.	U
53-70-3	Dibenzo(a,h)anthracene	ND	120	24.	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	160	29.	U
129-00-0	Pyrene	ND	120	20.	U
92-52-4	Biphenyl	ND	470	27.	U
106-47-8	4-Chloroaniline	ND	200	37.	U
88-74-4	2-Nitroaniline	ND	200	40.	U
99-09-2	3-Nitroaniline	ND	200	39.	U
100-01-6	4-Nitroaniline	ND	200	85.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-04	Date Collected : 07/12/23 08:00
Client ID : TP-04-0.5-2.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/20/23 22:42
Sample Matrix : SOIL	Date Extracted : 07/19/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-04	Analyst : LJG
Sample Amount : 30.83 g	Instrument ID : SV124
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 79
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	200	19.	U
91-57-6	2-Methylnaphthalene	ND	250	25.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	21.	U
98-86-2	Acetophenone	ND	200	25.	U
88-06-2	2,4,6-Trichlorophenol	ND	120	39.	U
59-50-7	p-Chloro-m-cresol	ND	200	30.	U
95-57-8	2-Chlorophenol	ND	200	24.	U
120-83-2	2,4-Dichlorophenol	ND	180	33.	U
105-67-9	2,4-Dimethylphenol	ND	200	68.	U
88-75-5	2-Nitrophenol	ND	440	77.	U
100-02-7	4-Nitrophenol	ND	290	84.	U
51-28-5	2,4-Dinitrophenol	ND	980	96.	U
534-52-1	4,6-Dinitro-o-cresol	ND	530	98.	U
87-86-5	Pentachlorophenol	ND	160	45.	U
108-95-2	Phenol	ND	200	31.	U
95-48-7	2-Methylphenol	ND	200	32.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	300	32.	U
95-95-4	2,4,5-Trichlorophenol	ND	200	39.	U
86-74-8	Carbazole	ND	200	20.	U
1912-24-9	Atrazine	ND	160	72.	U
100-52-7	Benzaldehyde	ND	270	55.	U
105-60-2	Caprolactam	ND	200	62.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C. Project Name : PH II INVESTIGATION Lab ID : L2339907-04 Client ID : TP-04-0.5-2.5 FT Sample Location : 42 YORK STREET, ROCHESTER NY Sample Matrix : SOIL Analytical Method : 1,8270E Lab File ID : 39907-04 Sample Amount : 30.83 g Extraction Method : EPA 3546 Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2339907 Project Number : 2230119 Date Collected : 07/12/23 08:00 Date Received : 07/12/23 Date Analyzed : 07/20/23 22:42 Date Extracted : 07/19/23 Dilution Factor : 1 Analyst : LJG Instrument ID : SV124 GC Column : RTX5-MS %Solids : 79 Injection Volume : 1 uL
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CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	200	41.	U



**Tentatively Identified Compounds
Form 1
Semivolatile Organics by GC/MS**

Client : LaBella Associates, P.C. Project Name : PH II INVESTIGATION Lab ID : L2339907-04 Client ID : TP-04-0.5-2.5 FT Sample Location : 42 YORK STREET, ROCHESTER NY Sample Matrix : SOIL Analytical Method : 1,8270E Lab File ID : 39907-04 Sample Amount : 30.83 g Extraction Method : EPA 3546 Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2339907 Project Number : 2230119 Date Collected : 07/12/23 08:00 Date Received : 07/12/23 Date Analyzed : 07/20/23 22:42 Date Extracted : 07/19/23 Dilution Factor : 1 Analyst : LJG Instrument ID : SV124 GC Column : %Solids : 79 Injection Volume : 1 uL
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Number TICS found: 2

Concentration Units: ug/Kg

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
	Unknown	8.65	192	J
Total TIC Compounds			192J	J



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-05	Date Collected : 07/12/23 09:30
Client ID : TP-05-0.5-2.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/19/23 07:06
Sample Matrix : SOIL	Date Extracted : 07/16/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-05	Analyst : EK
Sample Amount : 30.07 g	Instrument ID : SV103
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 82
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	160	21.	U
118-74-1	Hexachlorobenzene	ND	120	23.	U
111-44-4	Bis(2-chloroethyl)ether	ND	180	27.	U
91-58-7	2-Chloronaphthalene	ND	200	20.	U
91-94-1	3,3'-Dichlorobenzidine	ND	200	54.	U
121-14-2	2,4-Dinitrotoluene	ND	200	40.	U
606-20-2	2,6-Dinitrotoluene	ND	200	35.	U
206-44-0	Fluoranthene	1000	120	23.	
7005-72-3	4-Chlorophenyl phenyl ether	ND	200	22.	U
101-55-3	4-Bromophenyl phenyl ether	ND	200	31.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	240	34.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	220	20.	U
87-68-3	Hexachlorobutadiene	ND	200	30.	U
77-47-4	Hexachlorocyclopentadiene	ND	580	180	U
67-72-1	Hexachloroethane	ND	160	33.	U
78-59-1	Isophorone	ND	180	26.	U
91-20-3	Naphthalene	59	200	25.	J
98-95-3	Nitrobenzene	ND	180	30.	U
86-30-6	NDPA/DPA	ND	160	23.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	200	31.	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	200	70.	U
85-68-7	Butyl benzyl phthalate	ND	200	51.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-05	Date Collected : 07/12/23 09:30
Client ID : TP-05-0.5-2.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/19/23 07:06
Sample Matrix : SOIL	Date Extracted : 07/16/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-05	Analyst : EK
Sample Amount : 30.07 g	Instrument ID : SV103
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 82
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
84-74-2	Di-n-butylphthalate	ND	200	38.	U
117-84-0	Di-n-octylphthalate	ND	200	69.	U
84-66-2	Diethyl phthalate	ND	200	19.	U
131-11-3	Dimethyl phthalate	ND	200	42.	U
56-55-3	Benzo(a)anthracene	520	120	23.	
50-32-8	Benzo(a)pyrene	590	160	49.	
205-99-2	Benzo(b)fluoranthene	670	120	34.	
207-08-9	Benzo(k)fluoranthene	210	120	32.	
218-01-9	Chrysene	480	120	21.	
208-96-8	Acenaphthylene	ND	160	31.	U
120-12-7	Anthracene	90	120	39.	J
191-24-2	Benzo(ghi)perylene	360	160	24.	
86-73-7	Fluorene	ND	200	20.	U
85-01-8	Phenanthrene	300	120	25.	
53-70-3	Dibenzo(a,h)anthracene	73	120	23.	J
193-39-5	Indeno(1,2,3-cd)pyrene	440	160	28.	
129-00-0	Pyrene	910	120	20.	
92-52-4	Biphenyl	ND	460	26.	U
106-47-8	4-Chloroaniline	ND	200	37.	U
88-74-4	2-Nitroaniline	ND	200	39.	U
99-09-2	3-Nitroaniline	ND	200	38.	U
100-01-6	4-Nitroaniline	ND	200	84.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-05	Date Collected : 07/12/23 09:30
Client ID : TP-05-0.5-2.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/19/23 07:06
Sample Matrix : SOIL	Date Extracted : 07/16/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-05	Analyst : EK
Sample Amount : 30.07 g	Instrument ID : SV103
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 82
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	30	200	19.	J
91-57-6	2-Methylnaphthalene	43	240	24.	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	21.	U
98-86-2	Acetophenone	ND	200	25.	U
88-06-2	2,4,6-Trichlorophenol	ND	120	38.	U
59-50-7	p-Chloro-m-cresol	ND	200	30.	U
95-57-8	2-Chlorophenol	ND	200	24.	U
120-83-2	2,4-Dichlorophenol	ND	180	32.	U
105-67-9	2,4-Dimethylphenol	ND	200	67.	U
88-75-5	2-Nitrophenol	ND	440	76.	U
100-02-7	4-Nitrophenol	ND	280	83.	U
51-28-5	2,4-Dinitrophenol	ND	970	94.	U
534-52-1	4,6-Dinitro-o-cresol	ND	530	97.	U
87-86-5	Pentachlorophenol	ND	160	44.	U
108-95-2	Phenol	ND	200	30.	U
95-48-7	2-Methylphenol	ND	200	31.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	290	32.	U
95-95-4	2,4,5-Trichlorophenol	ND	200	39.	U
86-74-8	Carbazole	ND	200	20.	U
1912-24-9	Atrazine	ND	160	71.	U
100-52-7	Benzaldehyde	ND	270	55.	U
105-60-2	Caprolactam	ND	200	62.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C. Project Name : PH II INVESTIGATION Lab ID : L2339907-05 Client ID : TP-05-0.5-2.5 FT Sample Location : 42 YORK STREET, ROCHESTER NY Sample Matrix : SOIL Analytical Method : 1,8270E Lab File ID : 39907-05 Sample Amount : 30.07 g Extraction Method : EPA 3546 Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2339907 Project Number : 2230119 Date Collected : 07/12/23 09:30 Date Received : 07/12/23 Date Analyzed : 07/19/23 07:06 Date Extracted : 07/16/23 Dilution Factor : 1 Analyst : EK Instrument ID : SV103 GC Column : RTX5-MS %Solids : 82 Injection Volume : 1 uL
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CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	200	41.	U



**Tentatively Identified Compounds
Form 1
Semivolatile Organics by GC/MS**

<p>Client : LaBella Associates, P.C. Project Name : PH II INVESTIGATION Lab ID : L2339907-05 Client ID : TP-05-0.5-2.5 FT Sample Location : 42 YORK STREET, ROCHESTER NY Sample Matrix : SOIL Analytical Method : 1,8270E Lab File ID : 39907-05 Sample Amount : 30.07 g Extraction Method : EPA 3546 Extract Volume : 1000 uL GPC Cleanup : N</p>	<p>Lab Number : L2339907 Project Number : 2230119 Date Collected : 07/12/23 09:30 Date Received : 07/12/23 Date Analyzed : 07/19/23 07:06 Date Extracted : 07/16/23 Dilution Factor : 1 Analyst : EK Instrument ID : SV103 GC Column : %Solids : 82 Injection Volume : 1 uL</p>
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Number TICS found: 4

Concentration Units: ug/Kg

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
	Unknown Alkane	2.96	364	J
	Unknown PAH	9.87	167	J
	Unknown PAH	12.35	332	J
Total TIC Compounds			863J	J



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-06	Date Collected : 07/12/23 10:40
Client ID : TP-06-0.4-3 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/19/23 07:29
Sample Matrix : SOIL	Date Extracted : 07/16/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-06	Analyst : EK
Sample Amount : 10.2 g	Instrument ID : SV103
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 62
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	630	82.	U
118-74-1	Hexachlorobenzene	ND	480	89.	U
111-44-4	Bis(2-chloroethyl)ether	ND	710	110	U
91-58-7	2-Chloronaphthalene	ND	790	79.	U
91-94-1	3,3'-Dichlorobenzidine	ND	790	210	U
121-14-2	2,4-Dinitrotoluene	ND	790	160	U
606-20-2	2,6-Dinitrotoluene	ND	790	140	U
206-44-0	Fluoranthene	ND	480	91.	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	790	85.	U
101-55-3	4-Bromophenyl phenyl ether	ND	790	120	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	950	140	U
111-91-1	Bis(2-chloroethoxy)methane	ND	860	79.	U
87-68-3	Hexachlorobutadiene	ND	790	120	U
77-47-4	Hexachlorocyclopentadiene	ND	2300	720	U
67-72-1	Hexachloroethane	ND	630	130	U
78-59-1	Isophorone	ND	710	100	U
91-20-3	Naphthalene	ND	790	97.	U
98-95-3	Nitrobenzene	ND	710	120	U
86-30-6	NDPA/DPA	ND	630	90.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	790	120	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	790	270	U
85-68-7	Butyl benzyl phthalate	ND	790	200	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-06	Date Collected : 07/12/23 10:40
Client ID : TP-06-0.4-3 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/19/23 07:29
Sample Matrix : SOIL	Date Extracted : 07/16/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-06	Analyst : EK
Sample Amount : 10.2 g	Instrument ID : SV103
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 62
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
84-74-2	Di-n-butylphthalate	ND	790	150	U
117-84-0	Di-n-octylphthalate	ND	790	270	U
84-66-2	Diethyl phthalate	ND	790	73.	U
131-11-3	Dimethyl phthalate	ND	790	170	U
56-55-3	Benzo(a)anthracene	ND	480	89.	U
50-32-8	Benzo(a)pyrene	ND	630	190	U
205-99-2	Benzo(b)fluoranthene	ND	480	130	U
207-08-9	Benzo(k)fluoranthene	ND	480	130	U
218-01-9	Chrysene	ND	480	82.	U
208-96-8	Acenaphthylene	ND	630	120	U
120-12-7	Anthracene	ND	480	150	U
191-24-2	Benzo(ghi)perylene	ND	630	93.	U
86-73-7	Fluorene	ND	790	77.	U
85-01-8	Phenanthrene	ND	480	96.	U
53-70-3	Dibenzo(a,h)anthracene	ND	480	92.	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	630	110	U
129-00-0	Pyrene	ND	480	79.	U
92-52-4	Biphenyl	ND	1800	100	U
106-47-8	4-Chloroaniline	ND	790	140	U
88-74-4	2-Nitroaniline	ND	790	150	U
99-09-2	3-Nitroaniline	ND	790	150	U
100-01-6	4-Nitroaniline	ND	790	330	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-06	Date Collected : 07/12/23 10:40
Client ID : TP-06-0.4-3 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/19/23 07:29
Sample Matrix : SOIL	Date Extracted : 07/16/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-06	Analyst : EK
Sample Amount : 10.2 g	Instrument ID : SV103
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 62
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	790	75.	U
91-57-6	2-Methylnaphthalene	ND	950	96.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	790	83.	U
98-86-2	Acetophenone	ND	790	98.	U
88-06-2	2,4,6-Trichlorophenol	ND	480	150	U
59-50-7	p-Chloro-m-cresol	ND	790	120	U
95-57-8	2-Chlorophenol	ND	790	94.	U
120-83-2	2,4-Dichlorophenol	ND	710	130	U
105-67-9	2,4-Dimethylphenol	ND	790	260	U
88-75-5	2-Nitrophenol	ND	1700	300	U
100-02-7	4-Nitrophenol	ND	1100	320	U
51-28-5	2,4-Dinitrophenol	ND	3800	370	U
534-52-1	4,6-Dinitro-o-cresol	ND	2100	380	U
87-86-5	Pentachlorophenol	ND	630	170	U
108-95-2	Phenol	ND	790	120	U
95-48-7	2-Methylphenol	ND	790	120	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	1100	120	U
95-95-4	2,4,5-Trichlorophenol	ND	790	150	U
86-74-8	Carbazole	ND	790	77.	U
1912-24-9	Atrazine	ND	630	280	U
100-52-7	Benzaldehyde	ND	1000	210	U
105-60-2	Caprolactam	ND	790	240	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C. Project Name : PH II INVESTIGATION Lab ID : L2339907-06 Client ID : TP-06-0.4-3 FT Sample Location : 42 YORK STREET, ROCHESTER NY Sample Matrix : SOIL Analytical Method : 1,8270E Lab File ID : 39907-06 Sample Amount : 10.2 g Extraction Method : EPA 3546 Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2339907 Project Number : 2230119 Date Collected : 07/12/23 10:40 Date Received : 07/12/23 Date Analyzed : 07/19/23 07:29 Date Extracted : 07/16/23 Dilution Factor : 1 Analyst : EK Instrument ID : SV103 GC Column : RTX5-MS %Solids : 62 Injection Volume : 1 uL
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CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	790	160	U



**Tentatively Identified Compounds
Form 1
Semivolatile Organics by GC/MS**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-06	Date Collected	: 07/12/23 10:40
Client ID	: TP-06-0.4-3 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/19/23 07:29
Sample Matrix	: SOIL	Date Extracted	: 07/16/23
Analytical Method	: 1,8270E	Dilution Factor	: 1
Lab File ID	: 39907-06	Analyst	: EK
Sample Amount	: 10.2 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	:
Extract Volume	: 1000 uL	%Solids	: 62
GPC Cleanup	: N	Injection Volume	: 1 uL

Number TICS found: 0

Concentration Units: ug/Kg

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
NO TENTATIVELY IDENTIFIED COMPOUNDS				



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-07	Date Collected : 07/11/23 11:45
Client ID : TP-07-2.0-4.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/19/23 07:53
Sample Matrix : SOIL	Date Extracted : 07/16/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-07	Analyst : EK
Sample Amount : 10.35 g	Instrument ID : SV103
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 84
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	460	59.	U
118-74-1	Hexachlorobenzene	ND	340	64.	U
111-44-4	Bis(2-chloroethyl)ether	ND	520	78.	U
91-58-7	2-Chloronaphthalene	ND	570	57.	U
91-94-1	3,3'-Dichlorobenzidine	ND	570	150	U
121-14-2	2,4-Dinitrotoluene	ND	570	110	U
606-20-2	2,6-Dinitrotoluene	ND	570	98.	U
206-44-0	Fluoranthene	ND	340	66.	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	570	61.	U
101-55-3	4-Bromophenyl phenyl ether	ND	570	87.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	690	98.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	620	57.	U
87-68-3	Hexachlorobutadiene	ND	570	84.	U
77-47-4	Hexachlorocyclopentadiene	ND	1600	520	U
67-72-1	Hexachloroethane	ND	460	93.	U
78-59-1	Isophorone	ND	520	74.	U
91-20-3	Naphthalene	ND	570	70.	U
98-95-3	Nitrobenzene	ND	520	85.	U
86-30-6	NDPA/DPA	ND	460	65.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	570	88.	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	570	200	U
85-68-7	Butyl benzyl phthalate	ND	570	140	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-07	Date Collected : 07/11/23 11:45
Client ID : TP-07-2.0-4.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/19/23 07:53
Sample Matrix : SOIL	Date Extracted : 07/16/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-07	Analyst : EK
Sample Amount : 10.35 g	Instrument ID : SV103
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 84
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
84-74-2	Di-n-butylphthalate	ND	570	110	U
117-84-0	Di-n-octylphthalate	ND	570	190	U
84-66-2	Diethyl phthalate	ND	570	53.	U
131-11-3	Dimethyl phthalate	ND	570	120	U
56-55-3	Benzo(a)anthracene	ND	340	64.	U
50-32-8	Benzo(a)pyrene	ND	460	140	U
205-99-2	Benzo(b)fluoranthene	ND	340	96.	U
207-08-9	Benzo(k)fluoranthene	ND	340	92.	U
218-01-9	Chrysene	ND	340	60.	U
208-96-8	Acenaphthylene	ND	460	88.	U
120-12-7	Anthracene	ND	340	110	U
191-24-2	Benzo(ghi)perylene	ND	460	67.	U
86-73-7	Fluorene	ND	570	56.	U
85-01-8	Phenanthrene	ND	340	70.	U
53-70-3	Dibenzo(a,h)anthracene	ND	340	66.	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	460	80.	U
129-00-0	Pyrene	ND	340	57.	U
92-52-4	Biphenyl	ND	1300	74.	U
106-47-8	4-Chloroaniline	ND	570	100	U
88-74-4	2-Nitroaniline	ND	570	110	U
99-09-2	3-Nitroaniline	ND	570	110	U
100-01-6	4-Nitroaniline	ND	570	240	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-07	Date Collected : 07/11/23 11:45
Client ID : TP-07-2.0-4.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/19/23 07:53
Sample Matrix : SOIL	Date Extracted : 07/16/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-07	Analyst : EK
Sample Amount : 10.35 g	Instrument ID : SV103
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 84
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	570	54.	U
91-57-6	2-Methylnaphthalene	ND	690	69.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	570	60.	U
98-86-2	Acetophenone	ND	570	71.	U
88-06-2	2,4,6-Trichlorophenol	ND	340	110	U
59-50-7	p-Chloro-m-cresol	ND	570	85.	U
95-57-8	2-Chlorophenol	ND	570	68.	U
120-83-2	2,4-Dichlorophenol	ND	520	92.	U
105-67-9	2,4-Dimethylphenol	ND	570	190	U
88-75-5	2-Nitrophenol	ND	1200	220	U
100-02-7	4-Nitrophenol	ND	800	230	U
51-28-5	2,4-Dinitrophenol	ND	2700	270	U
534-52-1	4,6-Dinitro-o-cresol	ND	1500	270	U
87-86-5	Pentachlorophenol	ND	460	120	U
108-95-2	Phenol	ND	570	86.	U
95-48-7	2-Methylphenol	ND	570	89.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	820	90.	U
95-95-4	2,4,5-Trichlorophenol	ND	570	110	U
86-74-8	Carbazole	ND	570	56.	U
1912-24-9	Atrazine	ND	460	200	U
100-52-7	Benzaldehyde	ND	760	150	U
105-60-2	Caprolactam	ND	570	170	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C. Project Name : PH II INVESTIGATION Lab ID : L2339907-07 Client ID : TP-07-2.0-4.5 FT Sample Location : 42 YORK STREET, ROCHESTER NY Sample Matrix : SOIL Analytical Method : 1,8270E Lab File ID : 39907-07 Sample Amount : 10.35 g Extraction Method : EPA 3546 Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2339907 Project Number : 2230119 Date Collected : 07/11/23 11:45 Date Received : 07/12/23 Date Analyzed : 07/19/23 07:53 Date Extracted : 07/16/23 Dilution Factor : 1 Analyst : EK Instrument ID : SV103 GC Column : RTX5-MS %Solids : 84 Injection Volume : 1 uL
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CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	570	120	U



**Tentatively Identified Compounds
Form 1
Semivolatile Organics by GC/MS**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-07	Date Collected	: 07/11/23 11:45
Client ID	: TP-07-2.0-4.5 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/19/23 07:53
Sample Matrix	: SOIL	Date Extracted	: 07/16/23
Analytical Method	: 1,8270E	Dilution Factor	: 1
Lab File ID	: 39907-07	Analyst	: EK
Sample Amount	: 10.35 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	:
Extract Volume	: 1000 uL	%Solids	: 84
GPC Cleanup	: N	Injection Volume	: 1 uL

Number TICS found: 0

Concentration Units: ug/Kg

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
NO TENTATIVELY IDENTIFIED COMPOUNDS				



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-09	Date Collected : 07/11/23 00:00
Client ID : BD-01-3-4 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/20/23 22:59
Sample Matrix : SOIL	Date Extracted : 07/19/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-09	Analyst : LJG
Sample Amount : 30.16 g	Instrument ID : SV124
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 91
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	150	19.	U
118-74-1	Hexachlorobenzene	ND	110	20.	U
111-44-4	Bis(2-chloroethyl)ether	ND	160	25.	U
91-58-7	2-Chloronaphthalene	ND	180	18.	U
91-94-1	3,3'-Dichlorobenzidine	ND	180	49.	U
121-14-2	2,4-Dinitrotoluene	ND	180	37.	U
606-20-2	2,6-Dinitrotoluene	ND	180	31.	U
206-44-0	Fluoranthene	ND	110	21.	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	180	20.	U
101-55-3	4-Bromophenyl phenyl ether	ND	180	28.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	220	31.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	200	18.	U
87-68-3	Hexachlorobutadiene	ND	180	27.	U
77-47-4	Hexachlorocyclopentadiene	ND	520	160	U
67-72-1	Hexachloroethane	ND	150	30.	U
78-59-1	Isophorone	ND	160	24.	U
91-20-3	Naphthalene	ND	180	22.	U
98-95-3	Nitrobenzene	ND	160	27.	U
86-30-6	NDPA/DPA	ND	150	21.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	180	28.	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	180	63.	U
85-68-7	Butyl benzyl phthalate	ND	180	46.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-09	Date Collected : 07/11/23 00:00
Client ID : BD-01-3-4 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/20/23 22:59
Sample Matrix : SOIL	Date Extracted : 07/19/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-09	Analyst : LJG
Sample Amount : 30.16 g	Instrument ID : SV124
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 91
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
84-74-2	Di-n-butylphthalate	ND	180	35.	U
117-84-0	Di-n-octylphthalate	ND	180	62.	U
84-66-2	Diethyl phthalate	ND	180	17.	U
131-11-3	Dimethyl phthalate	ND	180	38.	U
56-55-3	Benzo(a)anthracene	ND	110	21.	U
50-32-8	Benzo(a)pyrene	ND	150	45.	U
205-99-2	Benzo(b)fluoranthene	ND	110	31.	U
207-08-9	Benzo(k)fluoranthene	ND	110	29.	U
218-01-9	Chrysene	ND	110	19.	U
208-96-8	Acenaphthylene	ND	150	28.	U
120-12-7	Anthracene	ND	110	36.	U
191-24-2	Benzo(ghi)perylene	ND	150	22.	U
86-73-7	Fluorene	ND	180	18.	U
85-01-8	Phenanthrene	ND	110	22.	U
53-70-3	Dibenzo(a,h)anthracene	ND	110	21.	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	150	26.	U
129-00-0	Pyrene	ND	110	18.	U
92-52-4	Biphenyl	ND	420	24.	U
106-47-8	4-Chloroaniline	ND	180	33.	U
88-74-4	2-Nitroaniline	ND	180	35.	U
99-09-2	3-Nitroaniline	ND	180	34.	U
100-01-6	4-Nitroaniline	ND	180	76.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-09	Date Collected : 07/11/23 00:00
Client ID : BD-01-3-4 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/20/23 22:59
Sample Matrix : SOIL	Date Extracted : 07/19/23
Analytical Method : 1,8270E	Dilution Factor : 1
Lab File ID : 39907-09	Analyst : LJG
Sample Amount : 30.16 g	Instrument ID : SV124
Extraction Method : EPA 3546	GC Column : RTX5-MS
Extract Volume : 1000 uL	%Solids : 91
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	180	17.	U
91-57-6	2-Methylnaphthalene	ND	220	22.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	19.	U
98-86-2	Acetophenone	ND	180	23.	U
88-06-2	2,4,6-Trichlorophenol	ND	110	35.	U
59-50-7	p-Chloro-m-cresol	ND	180	27.	U
95-57-8	2-Chlorophenol	ND	180	22.	U
120-83-2	2,4-Dichlorophenol	ND	160	29.	U
105-67-9	2,4-Dimethylphenol	ND	180	60.	U
88-75-5	2-Nitrophenol	ND	400	69.	U
100-02-7	4-Nitrophenol	ND	260	75.	U
51-28-5	2,4-Dinitrophenol	ND	880	85.	U
534-52-1	4,6-Dinitro-o-cresol	ND	480	88.	U
87-86-5	Pentachlorophenol	ND	150	40.	U
108-95-2	Phenol	ND	180	28.	U
95-48-7	2-Methylphenol	ND	180	28.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	260	29.	U
95-95-4	2,4,5-Trichlorophenol	ND	180	35.	U
86-74-8	Carbazole	ND	180	18.	U
1912-24-9	Atrazine	ND	150	64.	U
100-52-7	Benzaldehyde	ND	240	49.	U
105-60-2	Caprolactam	ND	180	56.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C. Project Name : PH II INVESTIGATION Lab ID : L2339907-09 Client ID : BD-01-3-4 FT Sample Location : 42 YORK STREET, ROCHESTER NY Sample Matrix : SOIL Analytical Method : 1,8270E Lab File ID : 39907-09 Sample Amount : 30.16 g Extraction Method : EPA 3546 Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2339907 Project Number : 2230119 Date Collected : 07/11/23 00:00 Date Received : 07/12/23 Date Analyzed : 07/20/23 22:59 Date Extracted : 07/19/23 Dilution Factor : 1 Analyst : LJG Instrument ID : SV124 GC Column : RTX5-MS %Solids : 91 Injection Volume : 1 uL
--	--

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	37.	U



**Tentatively Identified Compounds
Form 1
Semivolatile Organics by GC/MS**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: L2339907-09	Date Collected	: 07/11/23 00:00
Client ID	: BD-01-3-4 FT	Date Received	: 07/12/23
Sample Location	: 42 YORK STREET, ROCHESTER NY	Date Analyzed	: 07/20/23 22:59
Sample Matrix	: SOIL	Date Extracted	: 07/19/23
Analytical Method	: 1,8270E	Dilution Factor	: 1
Lab File ID	: 39907-09	Analyst	: LJG
Sample Amount	: 30.16 g	Instrument ID	: SV124
Extraction Method	: EPA 3546	GC Column	:
Extract Volume	: 1000 uL	%Solids	: 91
GPC Cleanup	: N	Injection Volume	: 1 uL

Number TICS found: 0

Concentration Units: ug/Kg

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
NO TENTATIVELY IDENTIFIED COMPOUNDS				



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Lab ID : WG1803858-1
 Client ID : WG1803858-1BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8270E
 Lab File ID : 803858-1
 Sample Amount : 30.15 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2339907
 Project Number : 2230119
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 07/19/23 01:14
 Date Extracted : 07/16/23
 Dilution Factor : 1
 Analyst : EK
 Instrument ID : SV103
 GC Column : RTX5-MS
 %Solids : NA
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	130	17.	U
118-74-1	Hexachlorobenzene	ND	100	18.	U
111-44-4	Bis(2-chloroethyl)ether	ND	150	22.	U
91-58-7	2-Chloronaphthalene	ND	160	16.	U
91-94-1	3,3'-Dichlorobenzidine	ND	160	44.	U
121-14-2	2,4-Dinitrotoluene	ND	160	33.	U
606-20-2	2,6-Dinitrotoluene	ND	160	28.	U
206-44-0	Fluoranthene	ND	100	19.	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	160	18.	U
101-55-3	4-Bromophenyl phenyl ether	ND	160	25.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	200	28.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	180	17.	U
87-68-3	Hexachlorobutadiene	ND	160	24.	U
77-47-4	Hexachlorocyclopentadiene	ND	470	150	U
67-72-1	Hexachloroethane	ND	130	27.	U
78-59-1	Isophorone	ND	150	22.	U
91-20-3	Naphthalene	ND	160	20.	U
98-95-3	Nitrobenzene	ND	150	24.	U
86-30-6	NDPA/DPA	ND	130	19.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	160	26.	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	160	57.	U
85-68-7	Butyl benzyl phthalate	ND	160	42.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Lab ID : WG1803858-1
 Client ID : WG1803858-1BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8270E
 Lab File ID : 803858-1
 Sample Amount : 30.15 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2339907
 Project Number : 2230119
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 07/19/23 01:14
 Date Extracted : 07/16/23
 Dilution Factor : 1
 Analyst : EK
 Instrument ID : SV103
 GC Column : RTX5-MS
 %Solids : NA
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
84-74-2	Di-n-butylphthalate	ND	160	31.	U
117-84-0	Di-n-octylphthalate	ND	160	56.	U
84-66-2	Diethyl phthalate	ND	160	15.	U
131-11-3	Dimethyl phthalate	ND	160	35.	U
56-55-3	Benzo(a)anthracene	ND	100	19.	U
50-32-8	Benzo(a)pyrene	ND	130	40.	U
205-99-2	Benzo(b)fluoranthene	ND	100	28.	U
207-08-9	Benzo(k)fluoranthene	ND	100	26.	U
218-01-9	Chrysene	ND	100	17.	U
208-96-8	Acenaphthylene	ND	130	26.	U
120-12-7	Anthracene	ND	100	32.	U
191-24-2	Benzo(ghi)perylene	ND	130	20.	U
86-73-7	Fluorene	ND	160	16.	U
85-01-8	Phenanthrene	ND	100	20.	U
53-70-3	Dibenzo(a,h)anthracene	ND	100	19.	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	130	23.	U
129-00-0	Pyrene	ND	100	16.	U
92-52-4	Biphenyl	ND	380	22.	U
106-47-8	4-Chloroaniline	ND	160	30.	U
88-74-4	2-Nitroaniline	ND	160	32.	U
99-09-2	3-Nitroaniline	ND	160	31.	U
100-01-6	4-Nitroaniline	ND	160	69.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Lab ID : WG1803858-1
 Client ID : WG1803858-1BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8270E
 Lab File ID : 803858-1
 Sample Amount : 30.15 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2339907
 Project Number : 2230119
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 07/19/23 01:14
 Date Extracted : 07/16/23
 Dilution Factor : 1
 Analyst : EK
 Instrument ID : SV103
 GC Column : RTX5-MS
 %Solids : NA
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	160	16.	U
91-57-6	2-Methylnaphthalene	ND	200	20.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	17.	U
98-86-2	Acetophenone	ND	160	20.	U
88-06-2	2,4,6-Trichlorophenol	ND	100	31.	U
59-50-7	p-Chloro-m-cresol	ND	160	25.	U
95-57-8	2-Chlorophenol	ND	160	20.	U
120-83-2	2,4-Dichlorophenol	ND	150	27.	U
105-67-9	2,4-Dimethylphenol	ND	160	55.	U
88-75-5	2-Nitrophenol	ND	360	62.	U
100-02-7	4-Nitrophenol	ND	230	68.	U
51-28-5	2,4-Dinitrophenol	ND	800	77.	U
534-52-1	4,6-Dinitro-o-cresol	ND	430	80.	U
87-86-5	Pentachlorophenol	ND	130	36.	U
108-95-2	Phenol	ND	160	25.	U
95-48-7	2-Methylphenol	ND	160	26.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	240	26.	U
95-95-4	2,4,5-Trichlorophenol	ND	160	32.	U
86-74-8	Carbazole	ND	160	16.	U
1912-24-9	Atrazine	ND	130	58.	U
100-52-7	Benzaldehyde	ND	220	45.	U
105-60-2	Caprolactam	ND	160	50.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C. Project Name : PH II INVESTIGATION Lab ID : WG1803858-1 Client ID : WG1803858-1BLANK Sample Location : Sample Matrix : SOIL Analytical Method : 1,8270E Lab File ID : 803858-1 Sample Amount : 30.15 g Extraction Method : EPA 3546 Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2339907 Project Number : 2230119 Date Collected : NA Date Received : NA Date Analyzed : 07/19/23 01:14 Date Extracted : 07/16/23 Dilution Factor : 1 Analyst : EK Instrument ID : SV103 GC Column : RTX5-MS %Solids : NA Injection Volume : 1 uL
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CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	33.	U



**Tentatively Identified Compounds
Form 1
Semivolatile Organics by GC/MS**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: WG1803858-1	Date Collected	: NA
Client ID	: WG1803858-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 07/19/23 01:14
Sample Matrix	: SOIL	Date Extracted	: 07/16/23
Analytical Method	: 1,8270E	Dilution Factor	: 1
Lab File ID	: 803858-1	Analyst	: EK
Sample Amount	: 30.15 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	:
Extract Volume	: 1000 uL	%Solids	: NA
GPC Cleanup	: N	Injection Volume	: 1 uL

Number TICS found: 0

Concentration Units: ug/Kg

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
NO TENTATIVELY IDENTIFIED COMPOUNDS				



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Lab ID : WG1804755-1
 Client ID : WG1804755-1BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8270E
 Lab File ID : 804755-1
 Sample Amount : 30.5 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2339907
 Project Number : 2230119
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 07/19/23 08:08
 Date Extracted : 07/18/23
 Dilution Factor : 1
 Analyst : JG
 Instrument ID : SV124
 GC Column : RTX5-MS
 %Solids : NA
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	130	17.	U
118-74-1	Hexachlorobenzene	ND	98	18.	U
111-44-4	Bis(2-chloroethyl)ether	ND	150	22.	U
91-58-7	2-Chloronaphthalene	ND	160	16.	U
91-94-1	3,3'-Dichlorobenzidine	ND	160	44.	U
121-14-2	2,4-Dinitrotoluene	ND	160	33.	U
606-20-2	2,6-Dinitrotoluene	ND	160	28.	U
206-44-0	Fluoranthene	ND	98	19.	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	160	18.	U
101-55-3	4-Bromophenyl phenyl ether	ND	160	25.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	200	28.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	180	16.	U
87-68-3	Hexachlorobutadiene	ND	160	24.	U
77-47-4	Hexachlorocyclopentadiene	ND	470	150	U
67-72-1	Hexachloroethane	ND	130	26.	U
78-59-1	Isophorone	ND	150	21.	U
91-20-3	Naphthalene	ND	160	20.	U
98-95-3	Nitrobenzene	ND	150	24.	U
86-30-6	NDPA/DPA	ND	130	19.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	160	25.	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	160	57.	U
85-68-7	Butyl benzyl phthalate	ND	160	41.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Lab ID : WG1804755-1
 Client ID : WG1804755-1BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8270E
 Lab File ID : 804755-1
 Sample Amount : 30.5 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2339907
 Project Number : 2230119
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 07/19/23 08:08
 Date Extracted : 07/18/23
 Dilution Factor : 1
 Analyst : JG
 Instrument ID : SV124
 GC Column : RTX5-MS
 %Solids : NA
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
84-74-2	Di-n-butylphthalate	ND	160	31.	U
117-84-0	Di-n-octylphthalate	ND	160	56.	U
84-66-2	Diethyl phthalate	ND	160	15.	U
131-11-3	Dimethyl phthalate	ND	160	34.	U
56-55-3	Benzo(a)anthracene	ND	98	18.	U
50-32-8	Benzo(a)pyrene	ND	130	40.	U
205-99-2	Benzo(b)fluoranthene	ND	98	28.	U
207-08-9	Benzo(k)fluoranthene	ND	98	26.	U
218-01-9	Chrysene	ND	98	17.	U
208-96-8	Acenaphthylene	ND	130	25.	U
120-12-7	Anthracene	ND	98	32.	U
191-24-2	Benzo(ghi)perylene	ND	130	19.	U
86-73-7	Fluorene	ND	160	16.	U
85-01-8	Phenanthrene	ND	98	20.	U
53-70-3	Dibenzo(a,h)anthracene	ND	98	19.	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	130	23.	U
129-00-0	Pyrene	ND	98	16.	U
92-52-4	Biphenyl	ND	370	21.	U
106-47-8	4-Chloroaniline	ND	160	30.	U
88-74-4	2-Nitroaniline	ND	160	32.	U
99-09-2	3-Nitroaniline	ND	160	31.	U
100-01-6	4-Nitroaniline	ND	160	68.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Lab ID : WG1804755-1
 Client ID : WG1804755-1BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,8270E
 Lab File ID : 804755-1
 Sample Amount : 30.5 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2339907
 Project Number : 2230119
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 07/19/23 08:08
 Date Extracted : 07/18/23
 Dilution Factor : 1
 Analyst : JG
 Instrument ID : SV124
 GC Column : RTX5-MS
 %Solids : NA
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	160	16.	U
91-57-6	2-Methylnaphthalene	ND	200	20.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	17.	U
98-86-2	Acetophenone	ND	160	20.	U
88-06-2	2,4,6-Trichlorophenol	ND	98	31.	U
59-50-7	p-Chloro-m-cresol	ND	160	24.	U
95-57-8	2-Chlorophenol	ND	160	19.	U
120-83-2	2,4-Dichlorophenol	ND	150	26.	U
105-67-9	2,4-Dimethylphenol	ND	160	54.	U
88-75-5	2-Nitrophenol	ND	350	62.	U
100-02-7	4-Nitrophenol	ND	230	67.	U
51-28-5	2,4-Dinitrophenol	ND	790	76.	U
534-52-1	4,6-Dinitro-o-cresol	ND	430	79.	U
87-86-5	Pentachlorophenol	ND	130	36.	U
108-95-2	Phenol	ND	160	25.	U
95-48-7	2-Methylphenol	ND	160	25.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	240	26.	U
95-95-4	2,4,5-Trichlorophenol	ND	160	31.	U
86-74-8	Carbazole	ND	160	16.	U
1912-24-9	Atrazine	ND	130	57.	U
100-52-7	Benzaldehyde	ND	220	44.	U
105-60-2	Caprolactam	ND	160	50.	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C. Project Name : PH II INVESTIGATION Lab ID : WG1804755-1 Client ID : WG1804755-1BLANK Sample Location : Sample Matrix : SOIL Analytical Method : 1,8270E Lab File ID : 804755-1 Sample Amount : 30.5 g Extraction Method : EPA 3546 Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2339907 Project Number : 2230119 Date Collected : NA Date Received : NA Date Analyzed : 07/19/23 08:08 Date Extracted : 07/18/23 Dilution Factor : 1 Analyst : JG Instrument ID : SV124 GC Column : RTX5-MS %Solids : NA Injection Volume : 1 uL
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CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	33.	U



**Tentatively Identified Compounds
Form 1
Semivolatile Organics by GC/MS**

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Lab ID	: WG1804755-1	Date Collected	: NA
Client ID	: WG1804755-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 07/19/23 08:08
Sample Matrix	: SOIL	Date Extracted	: 07/18/23
Analytical Method	: 1,8270E	Dilution Factor	: 1
Lab File ID	: 804755-1	Analyst	: JG
Sample Amount	: 30.5 g	Instrument ID	: SV124
Extraction Method	: EPA 3546	GC Column	:
Extract Volume	: 1000 uL	%Solids	: NA
GPC Cleanup	: N	Injection Volume	: 1 uL

Number TICS found: 0

Concentration Units: ug/Kg

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
NO TENTATIVELY IDENTIFIED COMPOUNDS				



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-02.d
 Acq On : 19 Jul 2023 5:32 am
 Operator : SV103:ek
 Sample : L2339907-02,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 25 17:56:18 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 05:52:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.822	152	192800	40.000	ug/ml	0.00
Standard Area 1 = 229645			Recovery = 83.96%			
27) IS2_1,4-Dichlorobenzen...	3.822	152	192800	40.000	ug/ml	0.00
Standard Area 3 = 170348			Recovery = 113.18%			
32) IS3_1,4-Dichlorobenzen...	3.822	152	192800	40.000	ug/ml	0.00
Standard Area 2 = 151650			Recovery = 127.13%			
35) IS1_Naphthalene-d8	5.078	136	763607	40.000	ug/ml	0.00
Standard Area 1 = 870434			Recovery = 87.73%			
55) IS2_Naphthalene-d8	5.078	136	763607	40.000	ug/ml	0.00
Standard Area 3 = 647727			Recovery = 117.89%			
63) IS1_Acenaphthene-d10	6.769	164	425565	40.000	ug/ml	0.00
Standard Area 1 = 468195			Recovery = 90.89%			
83) IS2_Acenaphthene-d10	6.769	164	425565	40.000	ug/ml	0.00
Standard Area 3 = 342963			Recovery = 124.08%			
86) IS3_Acenaphthene-d10	6.769	164	425565	40.000	ug/ml	0.00
Standard Area 2 = 314489			Recovery = 135.32%			
88) IS1_Phenanthrene-d10	8.172	188	848993	40.000	ug/ml	0.00
Standard Area 1 = 951685			Recovery = 89.21%			
100) IS3_Phenanthrene-d10	8.172	188	848993	40.000	ug/ml	0.00
Standard Area 2 = 639108			Recovery = 132.84%			
104) IS1_Chrysene-d12	10.735	240	753614	40.000	ug/ml	0.00
Standard Area 1 = 883111			Recovery = 85.34%			
113) IS1_Perylene-d12	12.494	264	861152	40.000	ug/ml	0.00
Standard Area 1 = 990767			Recovery = 86.92%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.467	112	171362	31.891	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110			
			Recovery = 63.78%			
7) Phenol-d6	3.563	99	219177	32.713	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110			
			Recovery = 65.43%			
19) Nitrobenzene-d5	4.393	82	107639	19.360	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130			
			Recovery = 77.44%			
46) 2-Fluorobiphenyl	6.161	172	235976	16.436	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130			
			Recovery = 65.74%			
79) 2,4,6-Tribromophenol	7.527	330	81574	36.024	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110			
			Recovery = 72.05%			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-02.d
 Acq On : 19 Jul 2023 5:32 am
 Operator : SV103:ek
 Sample : L2339907-02,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 25 17:56:18 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 05:52:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	9.749	244	297020	15.038	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	60.15%
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0			N.D.
8) Phenol	0.000		0			N.D. d
9) Bis(2-chloroethyl)ether	0.000		0			N.D.
14) Bis(2-chloroisopropyl)...	0.000		0			N.D.
15) 2-Methylphenol	0.000		0			N.D.
16) Hexachloroethane	0.000		0			N.D.
17) n-Nitrosodi-n-propylamine	0.000		0			N.D.
18) 3-Methylphenol/4-Methy...	0.000		0			N.D.
20) Nitrobenzene	0.000		0			N.D.
21) Isophorone	0.000		0			N.D.
22) 2-Nitrophenol	0.000		0			N.D.
23) 2,4-Dimethylphenol	0.000		0			N.D.
24) Bis(2-chloroethoxy)met...	0.000		0			N.D.
25) 2,4-Dichlorophenol	0.000		0			N.D.
28) Benzaldehyde	0.000		0			N.D.
29) Acetophenone	0.000		0			N.D.
36) Naphthalene	0.000		0			N.D. d
38) 4-Chloroaniline	0.000		0			N.D.
39) Hexachlorobutadiene	0.000		0			N.D.
40) p-Chloro-m-cresol	0.000		0			N.D.
41) 2-Methylnaphthalene	0.000		0			N.D.
43) Hexachlorocyclopentadiene	0.000		0			N.D.
44) 2,4,6-Trichlorophenol	0.000		0			N.D.
45) 2,4,5-Trichlorophenol	0.000		0			N.D.
47) 2-Chloronaphthalene	0.000		0			N.D.
48) 2-Nitroaniline	0.000		0			N.D.
51) Dimethyl phthalate	0.000		0			N.D.
52) Acenaphthylene	0.000		0			N.D. d
53) 2,6-Dinitrotoluene	0.000		0			N.D.
60) Caprolactam	0.000		0			N.D.
61) 1,2,4,5-Tetrachloroben...	0.000		0			N.D.
62) Biphenyl	0.000		0			N.D.
64) 3-Nitroaniline	0.000		0			N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-02.d
 Acq On : 19 Jul 2023 5:32 am
 Operator : SV103:ek
 Sample : L2339907-02,32,,mg
 Misc : wgl1804789,WG1803858,ical20013
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 25 17:56:18 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 05:52:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Acenaphthene	0.000		0	N.D.	d	
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.		
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
73) Fluorene	0.000		0	N.D.	d	
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.	d	
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
81) Hexachlorobenzene	0.000		0	N.D.		
82) Pentachlorophenol	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
89) Phenanthrene	0.000		0	N.D.	d	
90) Anthracene	0.000		0	N.D.	d	
91) Carbazole	0.000		0	N.D.	d	
92) Di-n-butylphthalate	0.000		0	N.D.	d	
93) Fluoranthene	0.000		0	N.D.	d	
95) Pyrene	0.000		0	N.D.	d	
97) Butyl benzyl phthalate	0.000		0	N.D.	d	
105) Benzo(a)anthracene	0.000		0	N.D.	d	
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Chrysene	0.000		0	N.D.	d	
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	
110) Benzo(b)fluoranthene	0.000		0	N.D.	d	
111) Benzo(k)fluoranthene	0.000		0	N.D.	d	
112) Benzo(a)pyrene	0.000		0	N.D.	d	
114) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	d	
115) Dibenzo(a,h)anthracene	0.000		0	N.D.	d	
116) Benzo(ghi)perylene	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
Data File : 39907-02.d
Acq On : 19 Jul 2023 5:32 am
Operator : SV103:ek
Sample : L2339907-02,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 25 17:56:18 2023
Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 05:52:42 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
Sub List : 8270TCL_REV2 - TCL/CT/MA

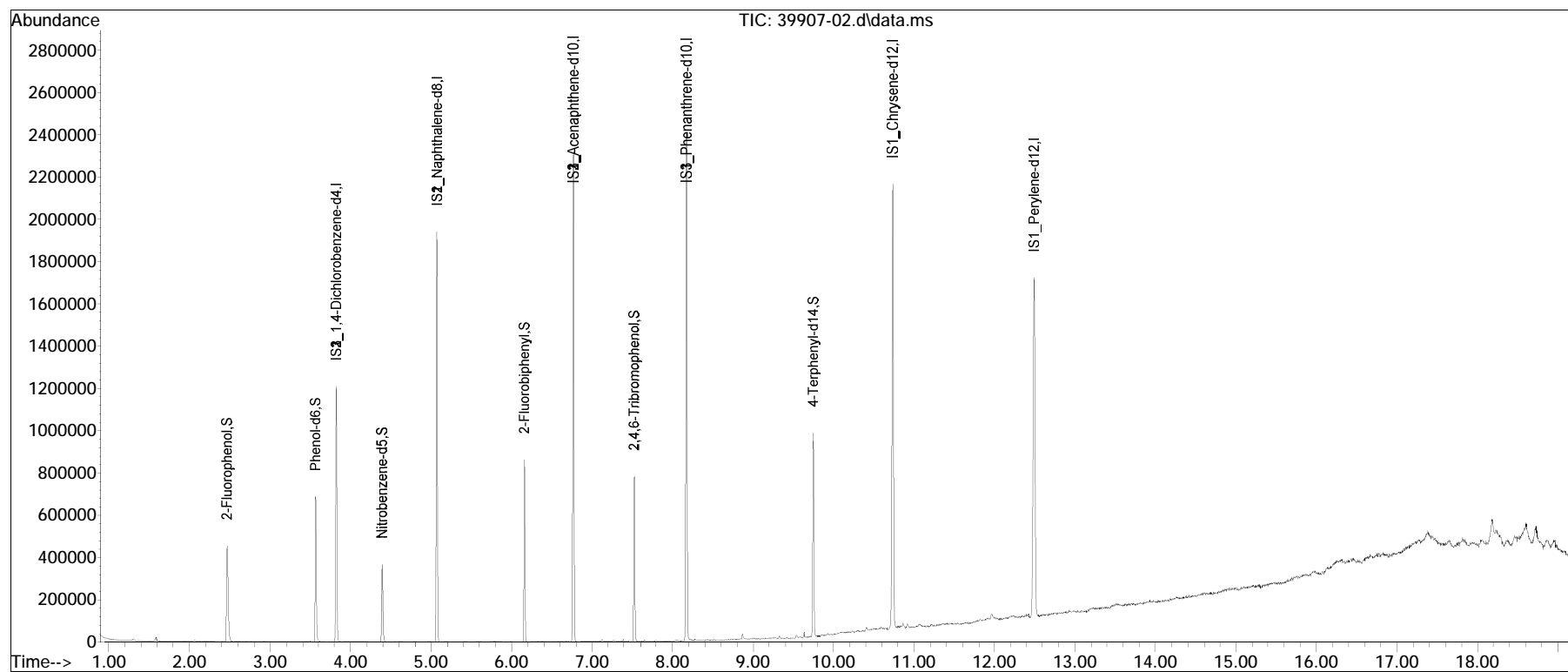
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
Data File : 39907-02.d
Acq On : 19 Jul 2023 5:32 am
Operator : SV103:ek
Sample : L2339907-02,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 25 17:56:18 2023
Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 05:52:42 2023
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAn\AP90718n.d•



Manual Integration Report

Data Path	: I:\8270\SV103\230718n\	QMethod	: FS230515nSV103.m
Data File	: 39907-02.d	Operator	: SV103:ek
Date Inj'd	: 7/19/2023 5:32 am	Instrument	: SV103
Sample	: L2339907-02,32,,mg	Quant Date	: 7/19/2023 5:52 am

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-02.d
 Acq On : 19 Jul 2023 5:32 am
 Operator : SV103:ek
 Sample : L2339907-02,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 500 Area counts
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 39907-02.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.467	548	556	576	rBV	452194	578186	23.81%	3.826%
2	3.566	936	943	962	rBV	685726	621050	25.57%	4.110%
3	3.822	1025	1033	1046	rBV	1207295	1103892	45.45%	7.305%
4	4.393	1226	1234	1247	rBV	366146	313480	12.91%	2.074%
5	5.078	1467	1475	1486	rBV	1942726	1530305	63.01%	10.126%
6	6.161	1848	1856	1864	rBV	861328	695714	28.65%	4.604%
7	6.769	2061	2070	2078	rBV	2320703	1919250	79.02%	12.700%
8	7.527	2329	2337	2346	rBV	781530	675282	27.80%	4.469%
9	8.172	2556	2564	2577	rBV	2406127	2103610	86.61%	13.920%
10	8.866	2803	2808	2818	rBV7	25260	27879	1.15%	0.184%
11	9.624	3069	3075	3080	rBV9	27768	30081	1.24%	0.199%
12	9.749	3111	3119	3130	rBV	967670	873628	35.97%	5.781%
13	10.735	3456	3466	3478	rVB	2095527	2210848	91.03%	14.630%
14	12.494	4073	4085	4099	rVB2	1598381	2428730	100.00%	16.072%

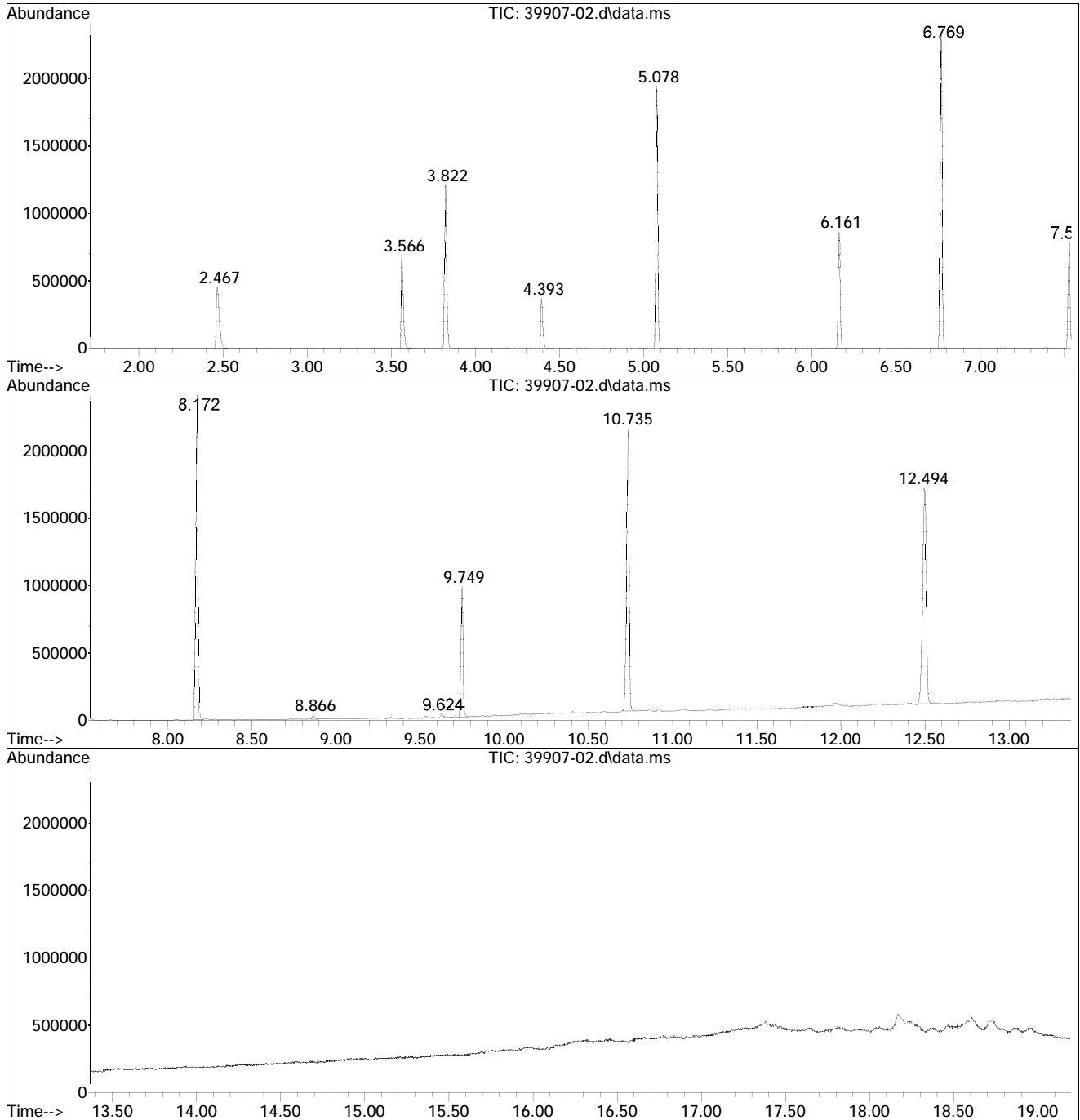
Sum of corrected areas: 15111935

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV103\230718n\
Data File : 39907-02.d
Acq On : 19 Jul 2023 5:32 am
Operator : SV103:ek
Sample : L2339907-02,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 20 Sample Multiplier: 1

Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\8270\SV103\230718n\
Data File : 39907-02.d
Acq On : 19 Jul 2023 5:32 am
Operator : SV103:ek
Sample : L2339907-02,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 20 Sample Multiplier: 1

Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV103\230718n\
Data File : 39907-02.d
Acq On : 19 Jul 2023 5:32 am
Operator : SV103:ek
Sample : L2339907-02,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 20 Sample Multiplier: 1

Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-03.d
 Acq On : 19 Jul 2023 6:42 am
 Operator : SV103:ek
 Sample : L2339907-03,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 25 17:57:07 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.822	152	203451	40.000	ug/ml	0.00
Standard Area 1 = 229645			Recovery =	88.59%		
27) IS2_1,4-Dichlorobenzen...	3.822	152	203451	40.000	ug/ml	0.00
Standard Area 3 = 170348			Recovery =	119.43%		
32) IS3_1,4-Dichlorobenzen...	3.822	152	203451	40.000	ug/ml	0.00
Standard Area 2 = 151650			Recovery =	134.16%		
35) IS1_Naphthalene-d8	5.078	136	801951	40.000	ug/ml	0.00
Standard Area 1 = 870434			Recovery =	92.13%		
55) IS2_Naphthalene-d8	5.078	136	801951	40.000	ug/ml	0.00
Standard Area 3 = 647727			Recovery =	123.81%		
63) IS1_Acenaphthene-d10	6.768	164	443755	40.000	ug/ml	0.00
Standard Area 1 = 468195			Recovery =	94.78%		
83) IS2_Acenaphthene-d10	6.768	164	443755	40.000	ug/ml	0.00
Standard Area 3 = 342963			Recovery =	129.39%		
86) IS3_Acenaphthene-d10	6.768	164	443755	40.000	ug/ml	0.00
Standard Area 2 = 314489			Recovery =	141.10%		
88) IS1_Phenanthrene-d10	8.175	188	892341	40.000	ug/ml	0.00
Standard Area 1 = 951685			Recovery =	93.76%		
100) IS3_Phenanthrene-d10	8.175	188	892341	40.000	ug/ml	0.00
Standard Area 2 = 639108			Recovery =	139.62%		
104) IS1_Chrysene-d12	10.735	240	801397	40.000	ug/ml	0.00
Standard Area 1 = 883111			Recovery =	90.75%		
113) IS1_Perylene-d12	12.497	264	917805	40.000	ug/ml	0.00
Standard Area 1 = 990767			Recovery =	92.64%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.464	112	181785	32.059	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	64.12%	
7) Phenol-d6	3.566	99	243496	34.441	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	68.88%	
19) Nitrobenzene-d5	4.393	82	124363	21.197	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	84.79%	
46) 2-Fluorobiphenyl	6.163	172	253255	16.796	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	67.18%	
79) 2,4,6-Tribromophenol	7.527	330	78648	33.308	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	66.62%	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-03.d
 Acq On : 19 Jul 2023 6:42 am
 Operator : SV103:ek
 Sample : L2339907-03,32,,mg
 Misc : wgl1804789,WG1803858,ical20013
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 25 17:57:07 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	9.749	244	301762	14.536	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	58.14%
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0		N.D.	
8) Phenol	0.000		0		N.D.	d
9) Bis(2-chloroethyl)ether	0.000		0		N.D.	
14) Bis(2-chloroisopropyl)...	0.000		0		N.D.	
15) 2-Methylphenol	0.000		0		N.D.	
16) Hexachloroethane	0.000		0		N.D.	
17) n-Nitrosodi-n-propylamine	0.000		0		N.D.	
18) 3-Methylphenol/4-Methy...	0.000		0		N.D.	
20) Nitrobenzene	0.000		0		N.D.	d
21) Isophorone	0.000		0		N.D.	
22) 2-Nitrophenol	0.000		0		N.D.	
23) 2,4-Dimethylphenol	0.000		0		N.D.	
24) Bis(2-chloroethoxy)met...	0.000		0		N.D.	
25) 2,4-Dichlorophenol	0.000		0		N.D.	
28) Benzaldehyde	0.000		0		N.D.	
29) Acetophenone	0.000		0		N.D.	
36) Naphthalene	5.098	128	14404	0.683	ug/ml	98
38) 4-Chloroaniline	0.000		0		N.D.	
39) Hexachlorobutadiene	0.000		0		N.D.	
40) p-Chloro-m-cresol	0.000		0		N.D.	
41) 2-Methylnaphthalene	0.000		0		N.D.	d
43) Hexachlorocyclopentadiene	0.000		0		N.D.	
44) 2,4,6-Trichlorophenol	0.000		0		N.D.	
45) 2,4,5-Trichlorophenol	0.000		0		N.D.	
47) 2-Chloronaphthalene	0.000		0		N.D.	
48) 2-Nitroaniline	0.000		0		N.D.	
51) Dimethyl phthalate	0.000		0		N.D.	
52) Acenaphthylene	0.000		0		N.D.	d
53) 2,6-Dinitrotoluene	0.000		0		N.D.	
60) Caprolactam	0.000		0		N.D.	
61) 1,2,4,5-Tetrachloroben...	0.000		0		N.D.	
62) Biphenyl	0.000		0		N.D.	d
64) 3-Nitroaniline	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-03.d
 Acq On : 19 Jul 2023 6:42 am
 Operator : SV103:ek
 Sample : L2339907-03,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 25 17:57:07 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Acenaphthene	0.000		0	N.D.	d	
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.	d	
68) 2,4-Dinitrotoluene	0.000		0	N.D.		
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
73) Fluorene	0.000		0	N.D.	d	
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.	d	
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
81) Hexachlorobenzene	0.000		0	N.D.		
82) Pentachlorophenol	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
89) Phenanthrene	8.195	178	40919	1.664	ug/ml	98
90) Anthracene	8.243	178	8220	0.339	ug/ml#	84
91) Carbazole	0.000		0	N.D.	d	
92) Di-n-butylphthalate	0.000		0	N.D.	d	
93) Fluoranthene	9.326	202	121545	4.709	ug/ml	98
95) Pyrene	9.530	202	122397	4.410	ug/ml	97
97) Butyl benzyl phthalate	0.000		0	N.D.	d	
105) Benzo(a)anthracene	10.727	228	109155	4.112	ug/ml#	95
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Chrysene	10.761	228	121428	4.569	ug/ml	96
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	
110) Benzo(b)fluoranthene	12.005	252	202122	7.843	ug/ml	99
111) Benzo(k)fluoranthene	12.034	252	62978M3	2.382	ug/ml	
112) Benzo(a)pyrene	12.412	252	132285	5.953	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	13.929	276	94833	4.844	ug/mL	96
115) Dibenzo(a,h)anthracene	13.983	278	27426	1.168	ug/ml#	83
116) Benzo(ghi)perylene	14.264	276	95918	4.013	ug/ml	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
Data File : 39907-03.d
Acq On : 19 Jul 2023 6:42 am
Operator : SV103:ek
Sample : L2339907-03,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 25 17:57:07 2023
Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 06:15:42 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
: 2 - I:\8270\sv103\230718n\ADP0718n.d
: 3 - I:\8270\sv103\230718n\AP90718n.d
Sub List : 8270TCL_REV2 - TCL/CT/MA

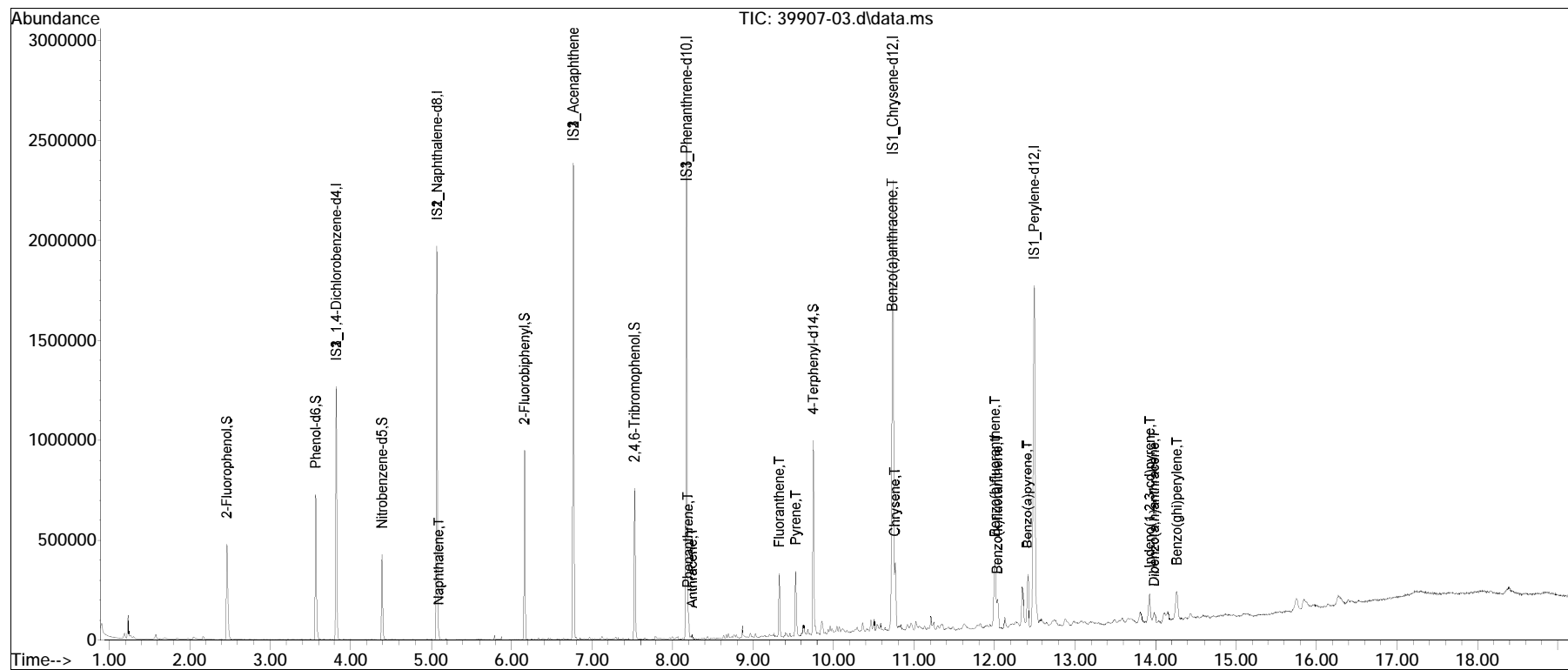
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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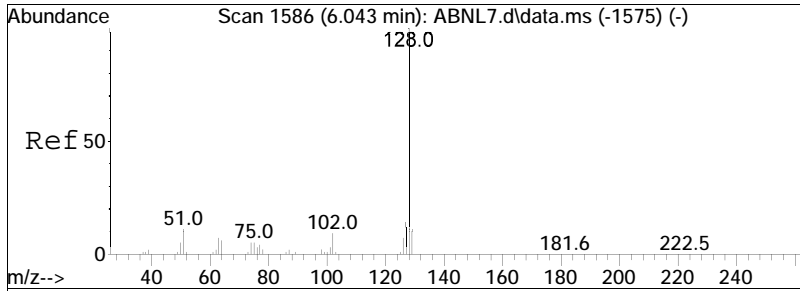
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-03.d
 Acq On : 19 Jul 2023 6:42 am
 Operator : SV103:ek
 Sample : L2339907-03,32,,mg
 Misc : wg1804789,WG1803858,ical20013
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 25 17:57:07 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

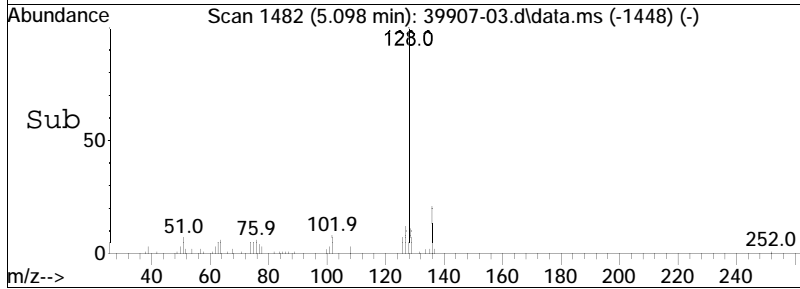
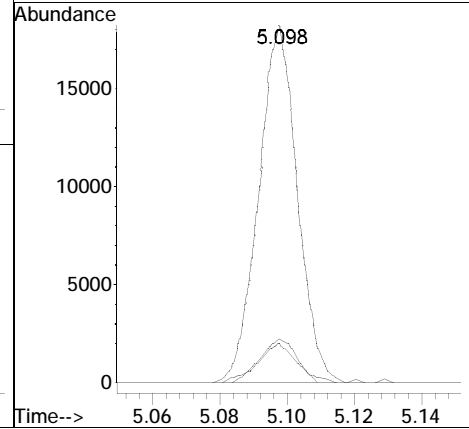
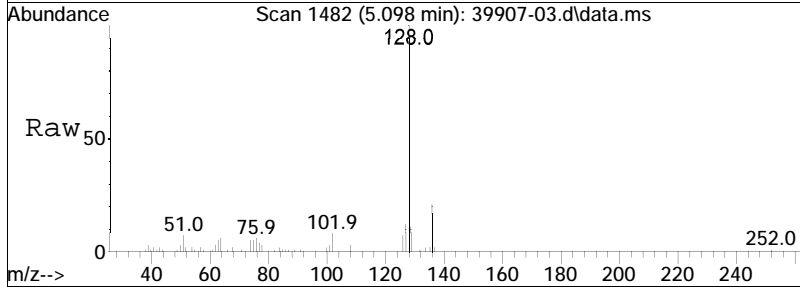
Sub List : 8270TCL_REV2 - TCL/CT/MAn\AP90718n.d•

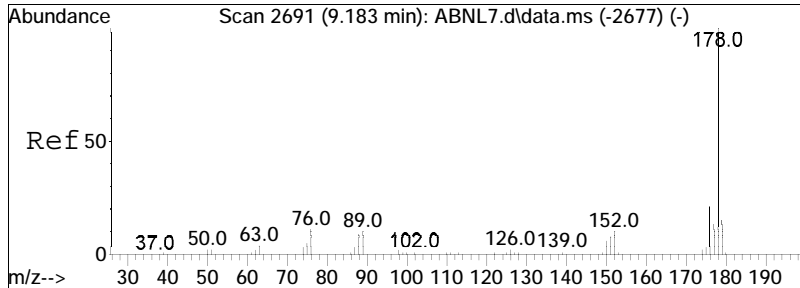




#36
 Naphthalene
 Concen: 0.68 ug/ml
 RT: 5.098 min Scan# 1482
 Delta R.T. -0.003 min
 Lab File: 39907-03.d
 Acq: 19 Jul 2023 6:42 am

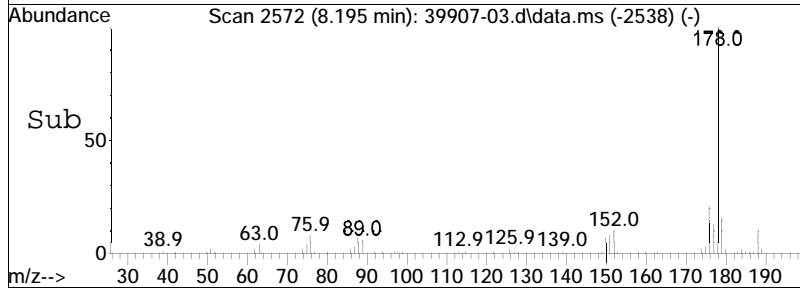
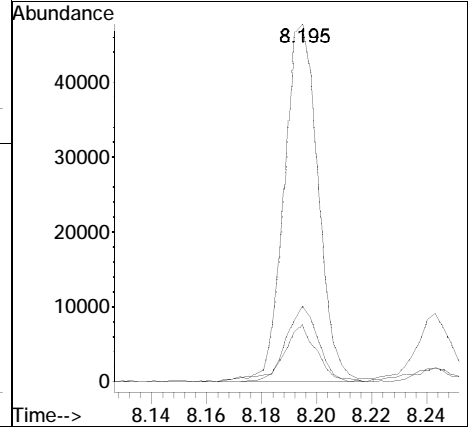
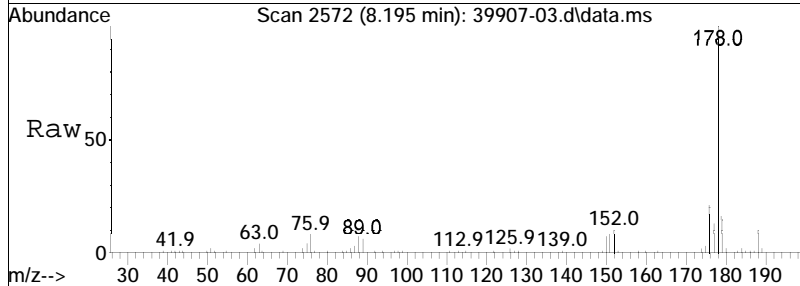
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	14404		
129	10.8		8.7	13.1
127	12.3		10.7	16.1

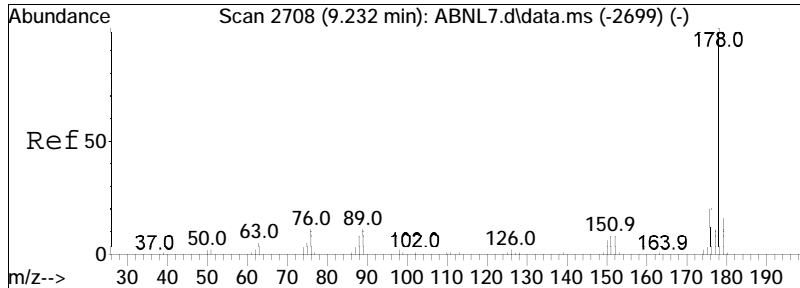




#89
 Phenanthrene
 Concen: 1.66 ug/ml
 RT: 8.195 min Scan# 2572
 Delta R.T. -0.003 min
 Lab File: 39907-03.d
 Acq: 19 Jul 2023 6:42 am

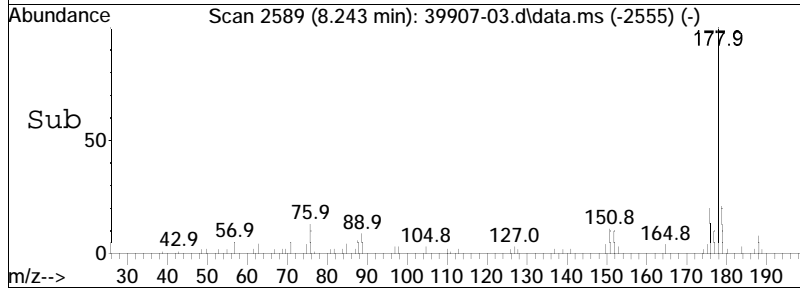
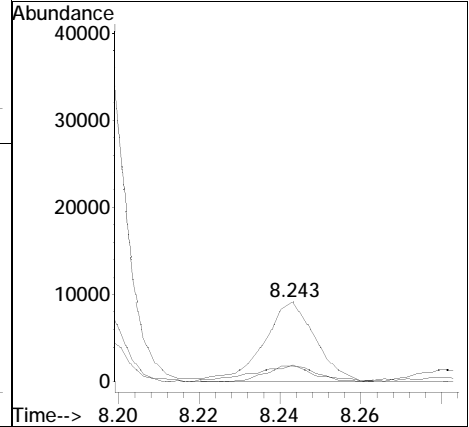
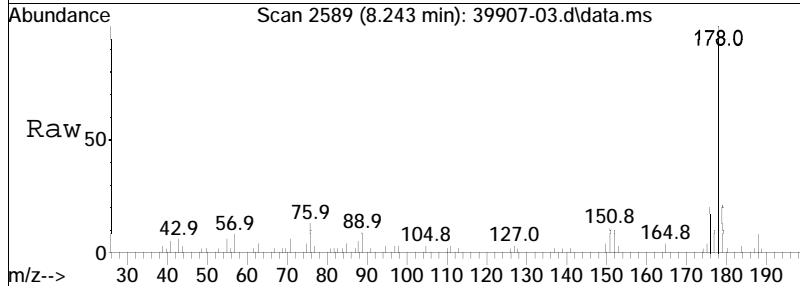
Tgt Ion	Ratio	Lower	Upper
178	100		
179	16.1	12.2	18.2
176	19.9	15.4	23.2

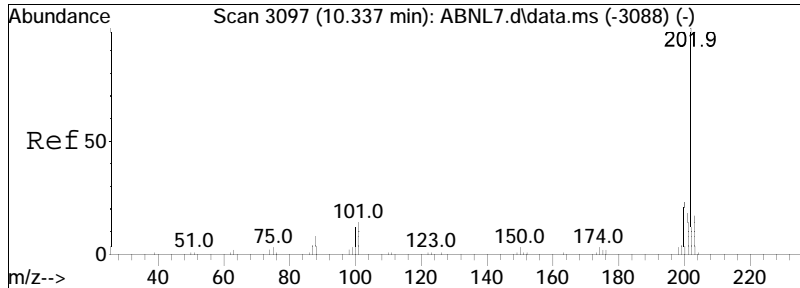




#90
 Anthracene
 Concen: 0.34 ug/ml
 RT: 8.243 min Scan# 2589
 Delta R.T. -0.003 min
 Lab File: 39907-03.d
 Acq: 19 Jul 2023 6:42 am

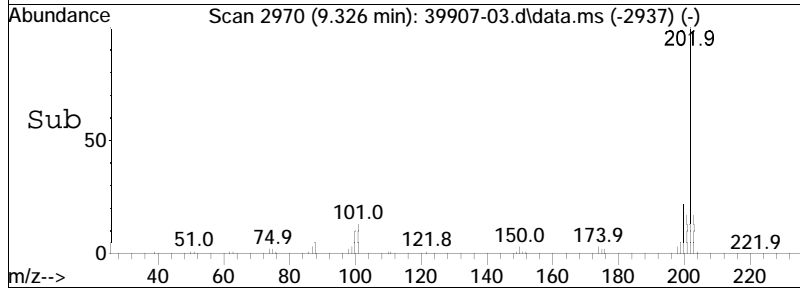
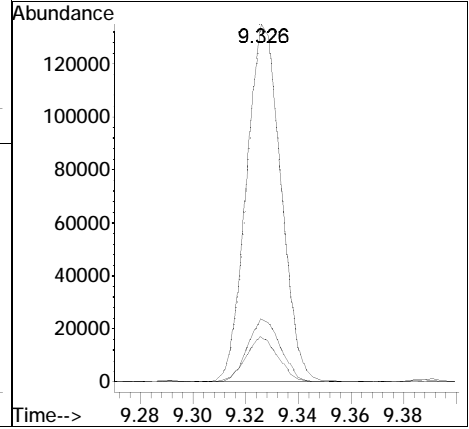
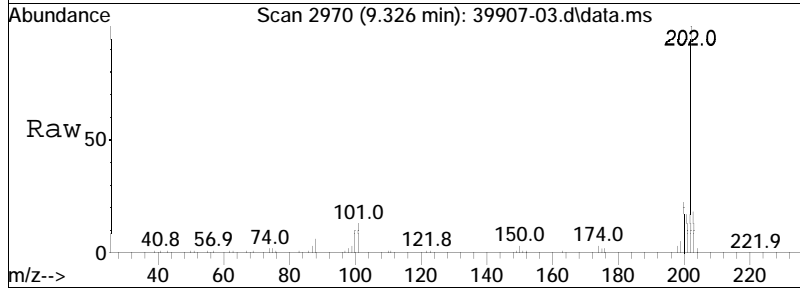
Tgt Ion	Resp	Lower	Upper
178	100		
179	27.1	12.1	18.1#
176	20.9	14.8	22.2

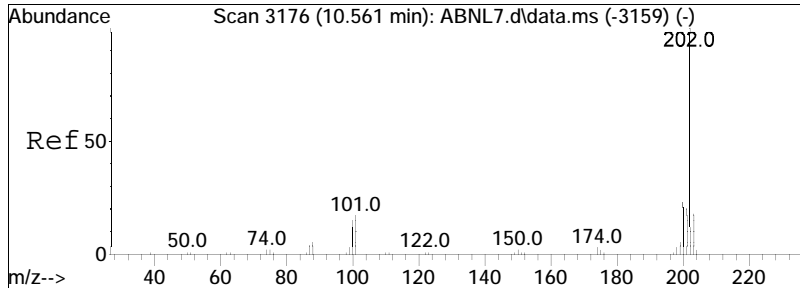




#93
 Fluoranthene
 Concen: 4.71 ug/ml
 RT: 9.326 min Scan# 2970
 Delta R.T. -0.006 min
 Lab File: 39907-03.d
 Acq: 19 Jul 2023 6:42 am

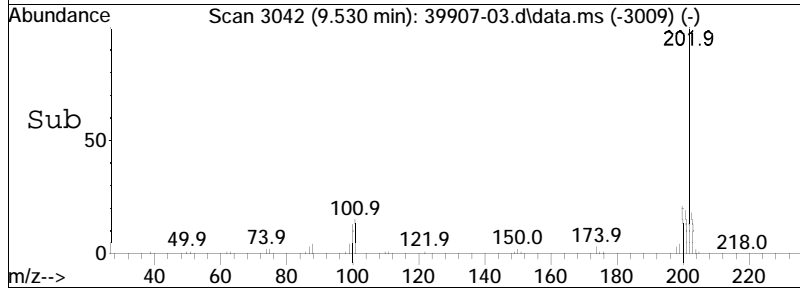
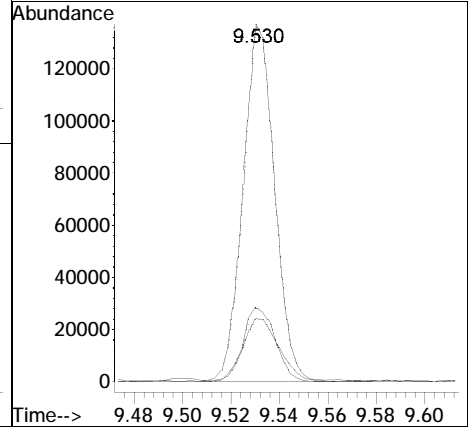
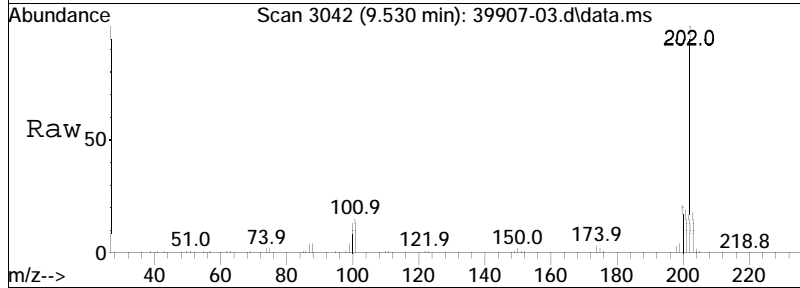
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	11.4	17.0
203	17.4	13.9	20.9

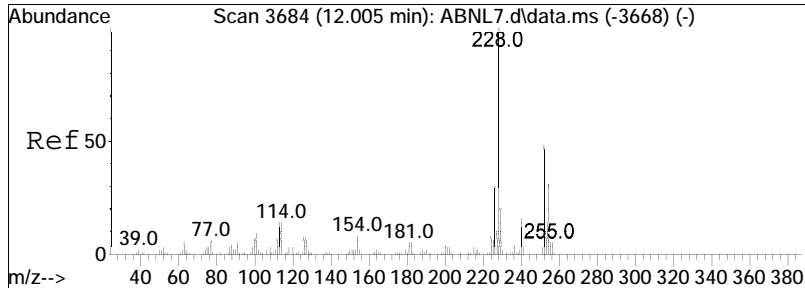




#95
 Pyrene
 Concen: 4.41 ug/ml
 RT: 9.530 min Scan# 3042
 Delta R.T. -0.006 min
 Lab File: 39907-03.d
 Acq: 19 Jul 2023 6:42 am

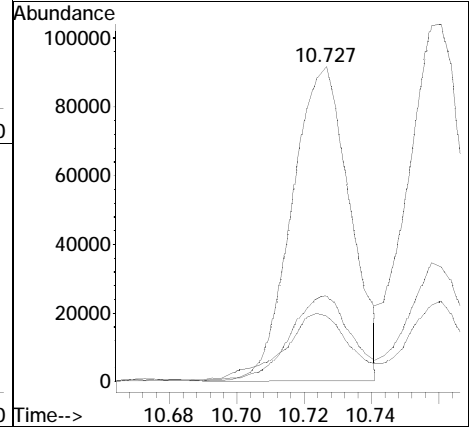
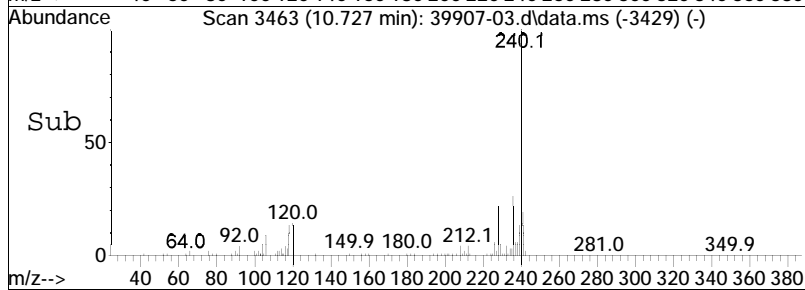
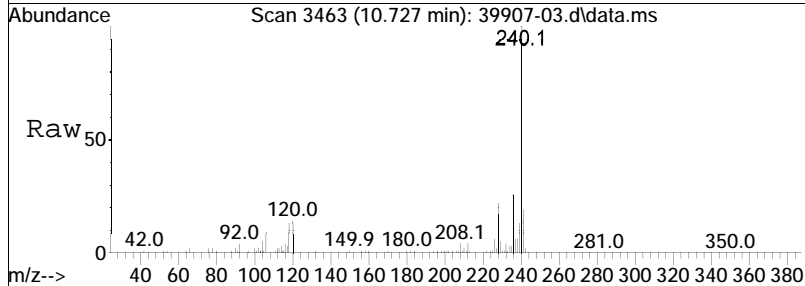
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.0	25.4
203	20.2	14.2	21.2

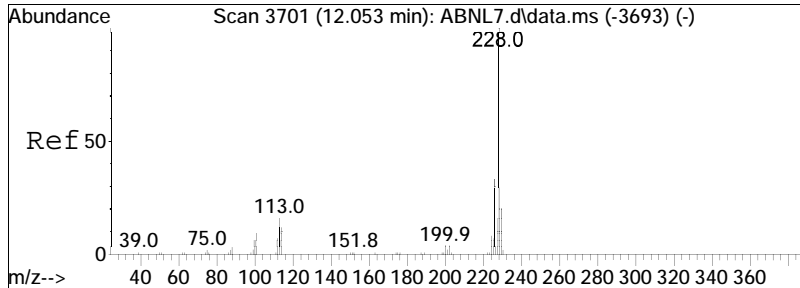




#105
 Benzo(a)anthracene
 Concen: 4.11 ug/ml
 RT: 10.727 min Scan# 3463
 Delta R.T. -0.003 min
 Lab File: 39907-03.d
 Acq: 19 Jul 2023 6:42 am

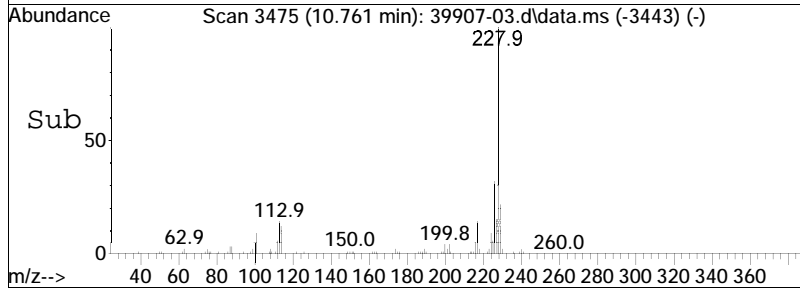
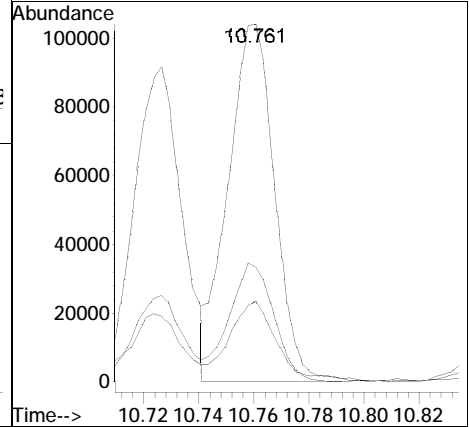
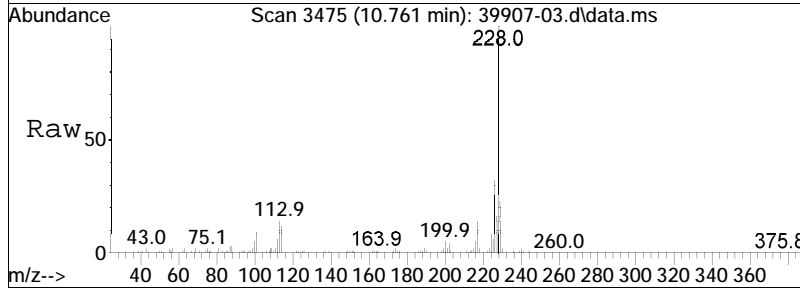
Tgt Ion	Resp	Lower	Upper
228	109155		
226	28.4	22.2	33.2
229	23.8	15.6	23.4#

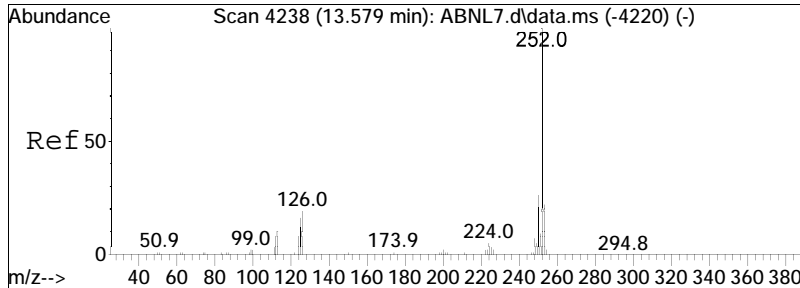




#107
 Chrysene
 Concen: 4.57 ug/ml
 RT: 10.761 min Scan# 3475
 Delta R.T. -0.009 min
 Lab File: 39907-03.d
 Acq: 19 Jul 2023 6:42 am

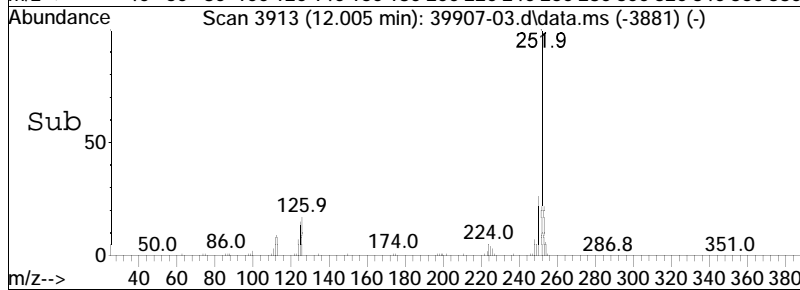
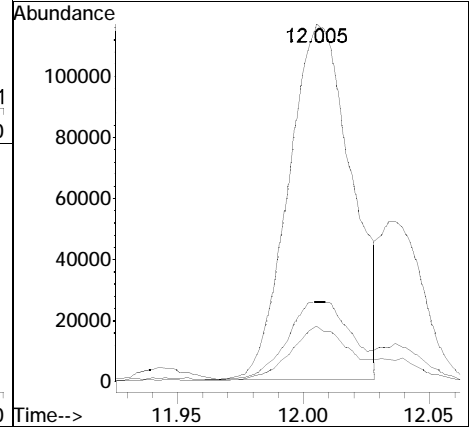
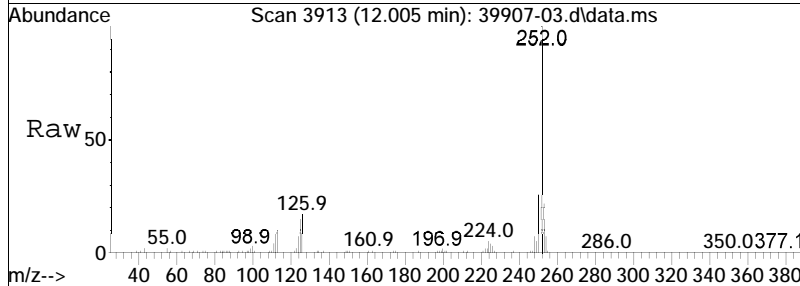
Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.5	24.6	37.0
229	22.6	15.8	23.6

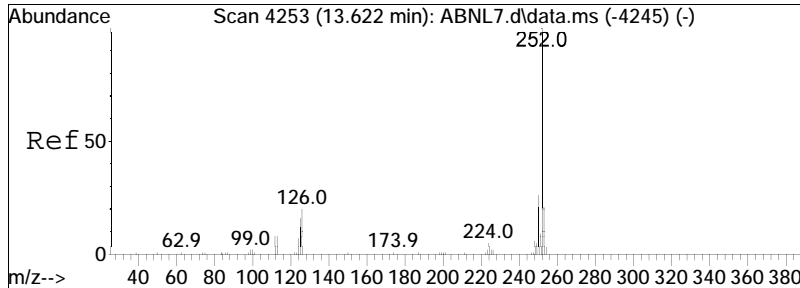




#110
 Benzo(b)fluoranthene
 Concen: 7.84 ug/ml
 RT: 12.005 min Scan# 3913
 Delta R.T. -0.009 min
 Lab File: 39907-03.d
 Acq: 19 Jul 2023 6:42 am

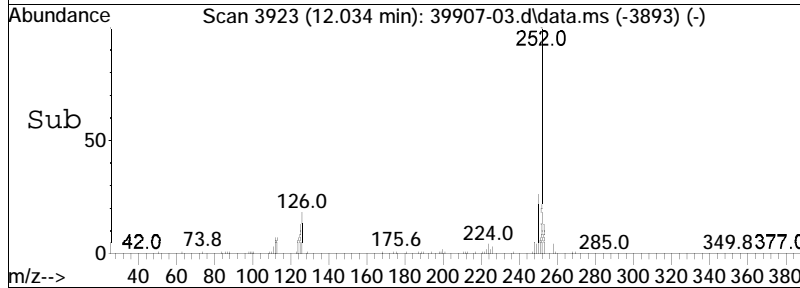
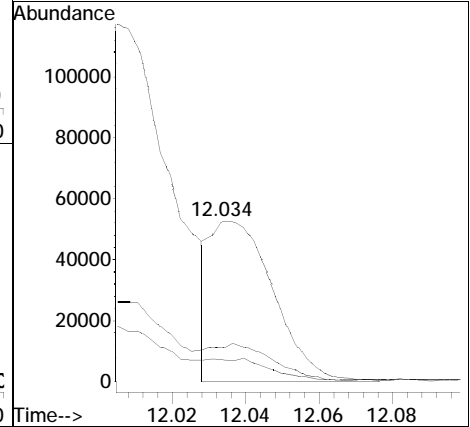
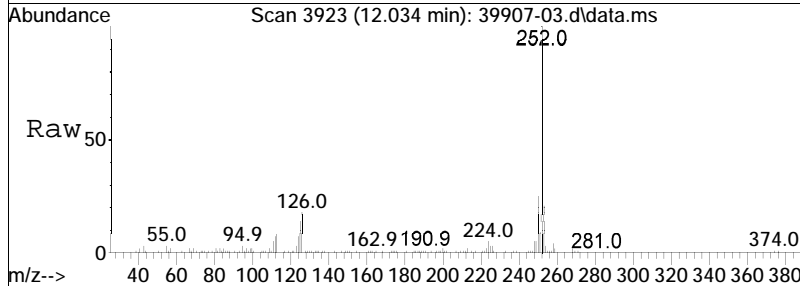
Tgt Ion	Ratio	Lower	Upper
252	100		
125	14.7	11.6	17.4
253	21.2	17.4	26.0

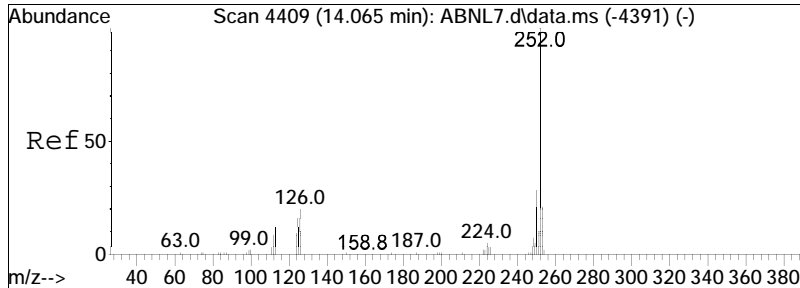




#111
 Benzo(k)fluoranthene
 Concen: 2.38 ug/ml M3
 RT: 12.034 min Scan# 3923
 Delta R.T. -0.014 min
 Lab File: 39907-03.d
 Acq: 19 Jul 2023 6:42 am

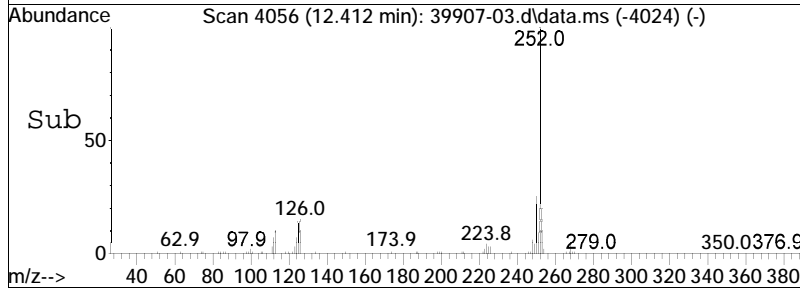
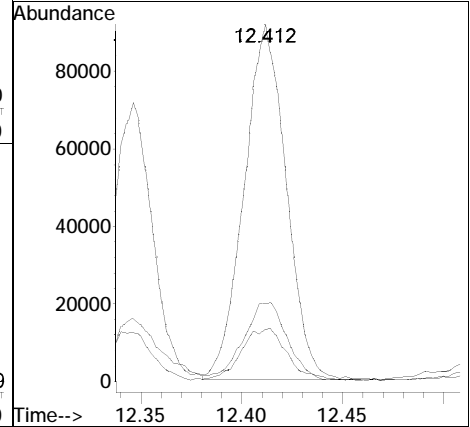
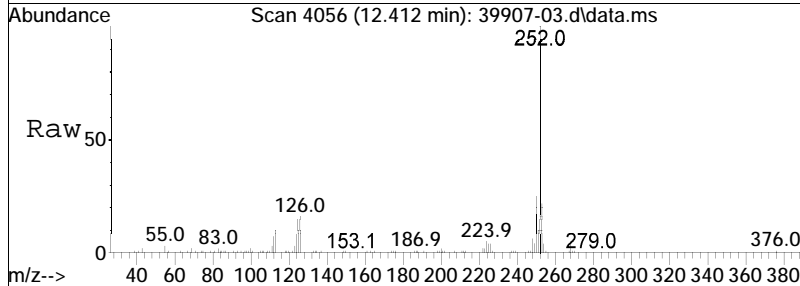
Tgt Ion	Resp	Lower	Upper
252	100		
125	47.2	11.4	17.0#
253	68.2	17.2	25.8#

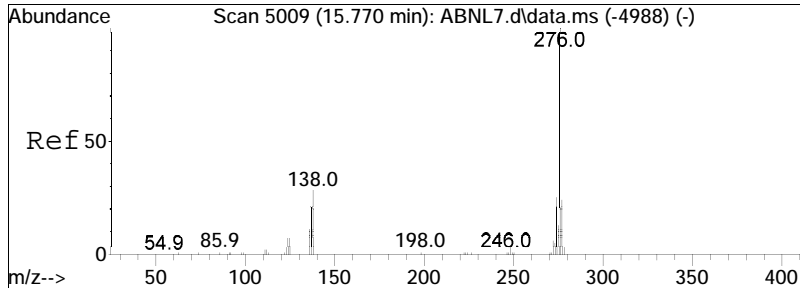




#112
 Benzo(a)pyrene
 Concen: 5.95 ug/ml
 RT: 12.412 min Scan# 4056
 Delta R.T. -0.009 min
 Lab File: 39907-03.d
 Acq: 19 Jul 2023 6:42 am

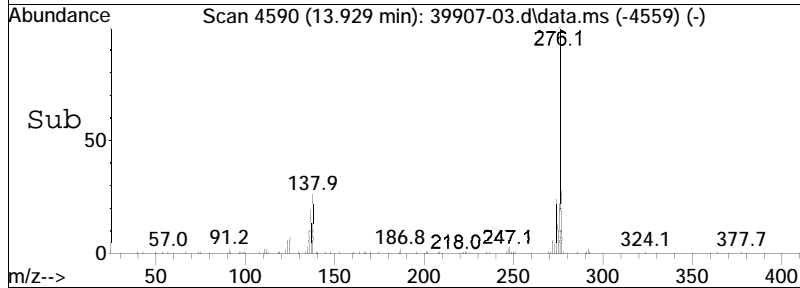
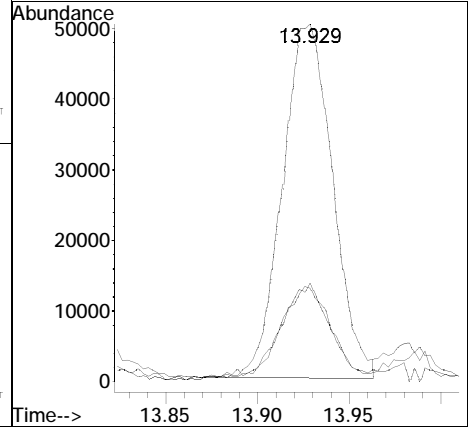
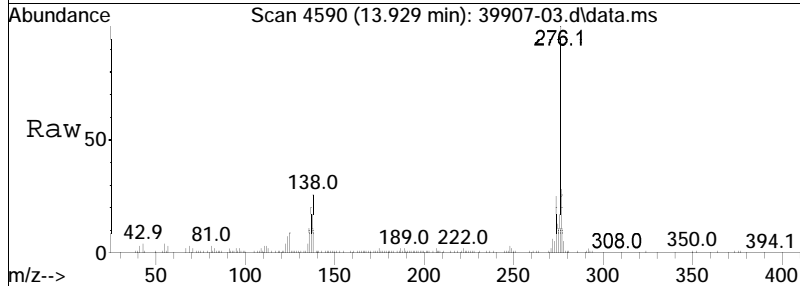
Tgt Ion	Resp	Lower	Upper
252	132285		
125	15.4	12.6	18.8
253	22.4	16.9	25.3

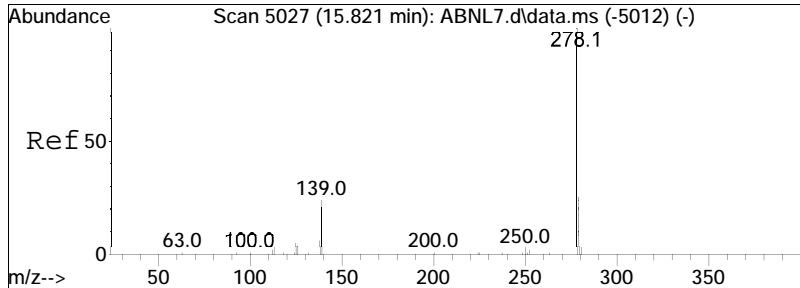




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 4.84 ug/mL
 RT: 13.929 min Scan# 4590
 Delta R.T. -0.012 min
 Lab File: 39907-03.d
 Acq: 19 Jul 2023 6:42 am

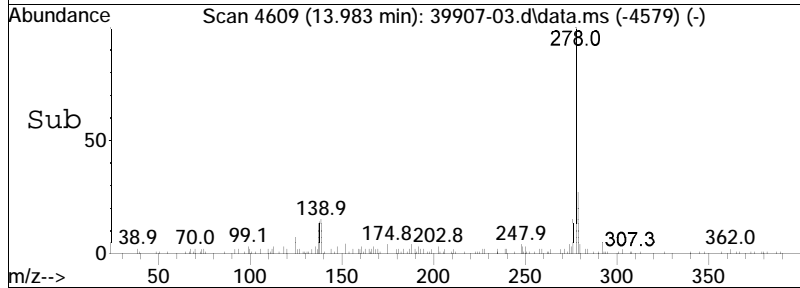
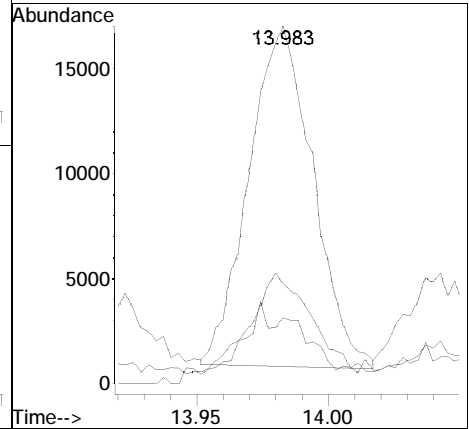
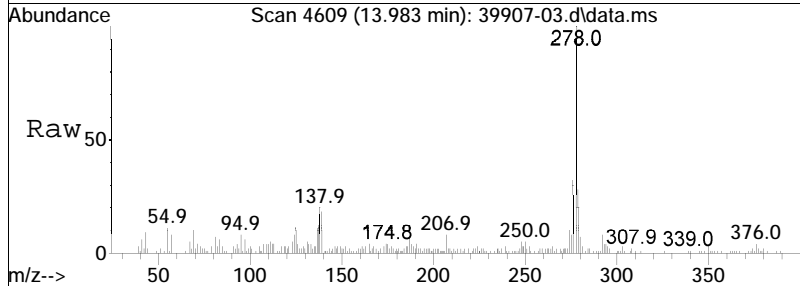
Tgt Ion	Resp	Lower	Upper
276	100		
138	24.3	21.4	32.0
277	25.8	19.2	28.8

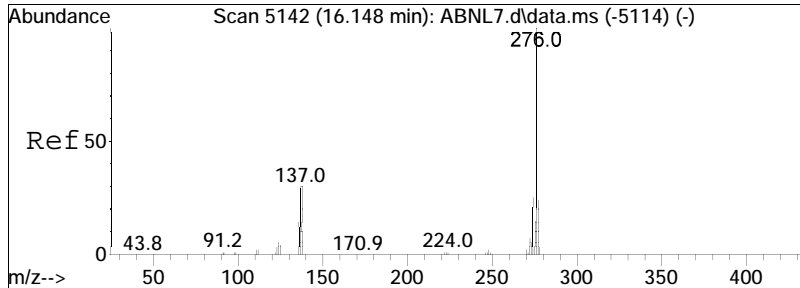




#115
 Dibenzo(a,h)anthracene
 Concen: 1.17 ug/ml
 RT: 13.983 min Scan# 4609
 Delta R.T. -0.014 min
 Lab File: 39907-03.d
 Acq: 19 Jul 2023 6:42 am

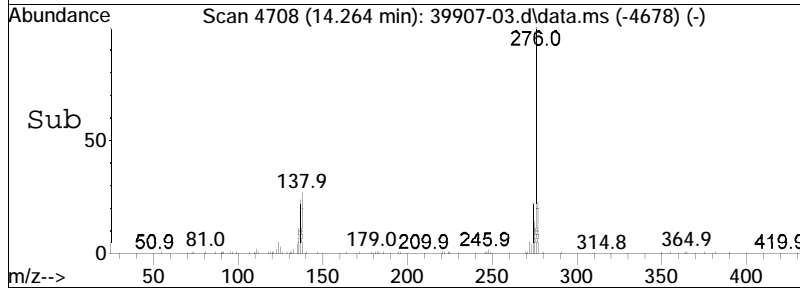
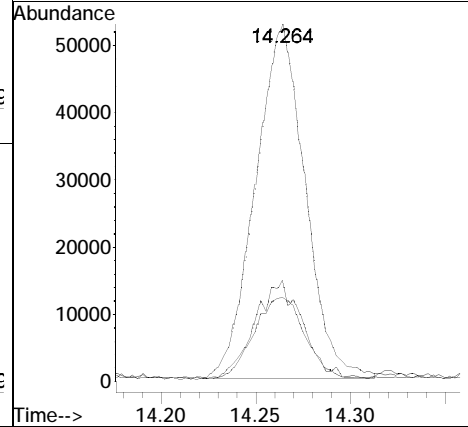
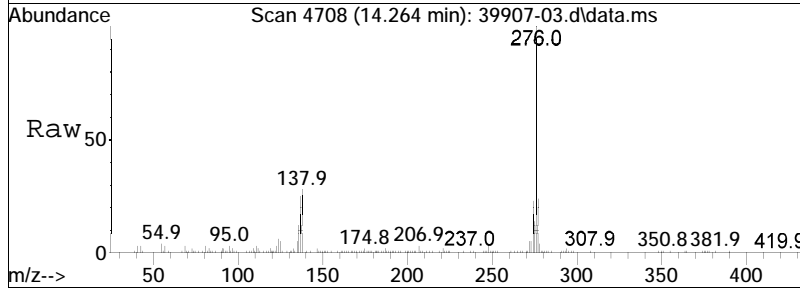
Tgt Ion	Ratio	Lower	Upper
278	100		
139	9.2	17.1	25.7#
279	28.6	19.3	28.9





#116
 Benzo(ghi)perylene
 Concen: 4.01 ug/ml
 RT: 14.264 min Scan# 4708
 Delta R.T. -0.014 min
 Lab File: 39907-03.d
 Acq: 19 Jul 2023 6:42 am

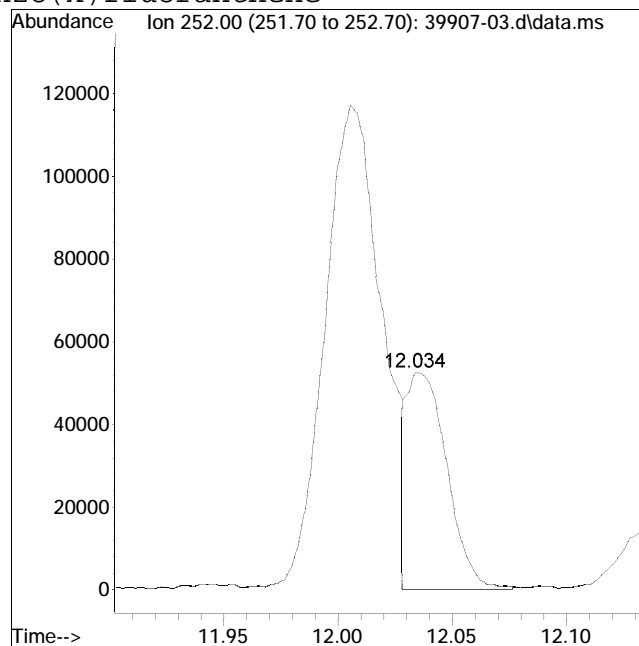
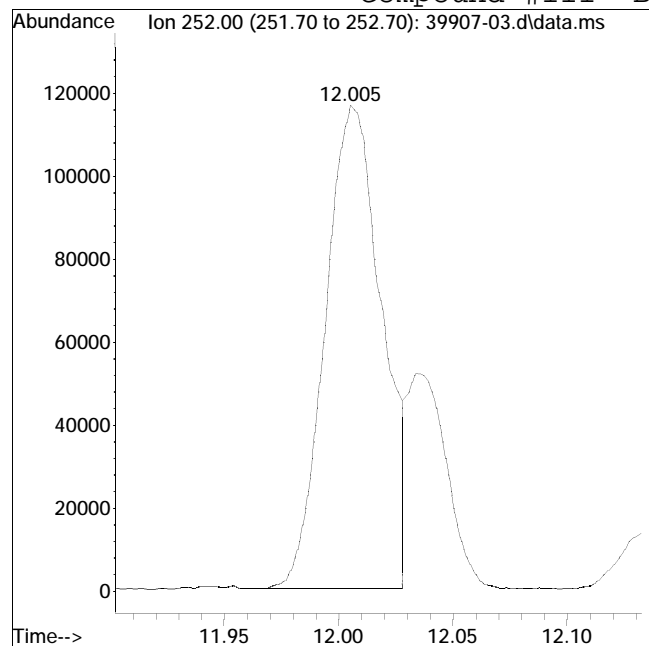
Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.7	26.7	40.1
277	23.9	19.4	29.2



Manual Integration Report

Data Path : I:\8270\SV103\230718n\ QMethod : FS230515nSV103.m
Data File : 39907-03.d Operator : SV103:ek
Date Inj'd : 7/19/2023 6:42 am Instrument : SV103
Sample : L2339907-03,32,,mg Quant Date : 7/19/2023 7:02 am

Compound #111: Benzo(k)fluoranthene



Original Peak Response = 202122

Manual Peak Response = 62978 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

LSC Area Percent Report

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-03.d
 Acq On : 19 Jul 2023 6:42 am
 Operator : SV103:ek
 Sample : L2339907-03,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 500 Area counts
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 39907-03.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.464	547	555	574	rBV	476651	609772	22.10%	3.098%
2	3.566	935	943	959	rBV	726613	691463	25.06%	3.513%
3	3.822	1025	1033	1050	rBV	1267656	1154565	41.84%	5.867%
4	4.393	1228	1234	1247	rBV	426661	360807	13.08%	1.833%
5	5.078	1467	1475	1489	rBV	1971393	1632655	59.17%	8.296%
6	6.160	1849	1856	1864	rVB	945090	753275	27.30%	3.828%
7	6.766	2061	2069	2077	rBV	2384973	2012857	72.94%	10.228%
8	7.527	2329	2337	2351	rBV	757184	657451	23.83%	3.341%
9	8.175	2556	2565	2571	rBV	2545154	2236890	81.06%	11.366%
10	8.865	2802	2808	2821	rBV2	58295	64595	2.34%	0.328%
11	9.326	2963	2970	2979	rVB	314210	280726	10.17%	1.426%
12	9.530	3036	3042	3057	rVB	322561	330374	11.97%	1.679%
13	9.624	3071	3075	3088	rVB6	48142	59775	2.17%	0.304%
14	9.681	3088	3095	3102	rBV4	25896	32466	1.18%	0.165%
15	9.749	3112	3119	3126	rBV	971854	901577	32.67%	4.581%
16	9.863	3149	3159	3169	rBV6	64066	102460	3.71%	0.521%
17	10.363	3330	3335	3344	rVB3	43817	49876	1.81%	0.253%
18	10.462	3365	3370	3377	rBV3	49566	49060	1.78%	0.249%
19	10.502	3379	3384	3392	rVB3	57447	58597	2.12%	0.298%
20	10.542	3394	3398	3406	rVV7	28915	34955	1.27%	0.178%
21	10.579	3408	3411	3418	rVB2	35468	31166	1.13%	0.158%
22	10.735	3451	3466	3472	rBV2	2252718	2729472	98.91%	13.869%
23	10.761	3472	3475	3484	rVB2	325463	296822	10.76%	1.508%
24	10.962	3543	3546	3559	rVB8	33796	47127	1.71%	0.239%
25	11.019	3561	3566	3575	rBV2	38095	46114	1.67%	0.234%
26	11.204	3624	3631	3637	rBV3	59529	76625	2.78%	0.389%
27	12.005	3903	3913	3920	rBV2	310138	504162	18.27%	2.562%
28	12.127	3950	3956	3963	rBV3	44626	58929	2.14%	0.299%

LSC Area Percent Report

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-03.d
 Acq On : 19 Jul 2023 6:42 am
 Operator : SV103:ek
 Sample : L2339907-03,32,,mg
 Misc : wgl1804789,WG1803858,ical20013
 ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 500 Area counts
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Title : Semivolatiles by GC/MS by modified 8270

29	12.346	4025	4033	4046	rVB3	180230	247338	8.96%	1.257%
30	12.412	4048	4056	4069	rVB2	263773	378718	13.72%	1.924%
31	12.497	4072	4086	4105	rBV2	1706308	2759420	100.00%	14.021%
32	13.929	4582	4590	4601	rVB3	133732	224310	8.13%	1.140%
33	14.264	4700	4708	4716	rVB2	127086	205978	7.46%	1.047%

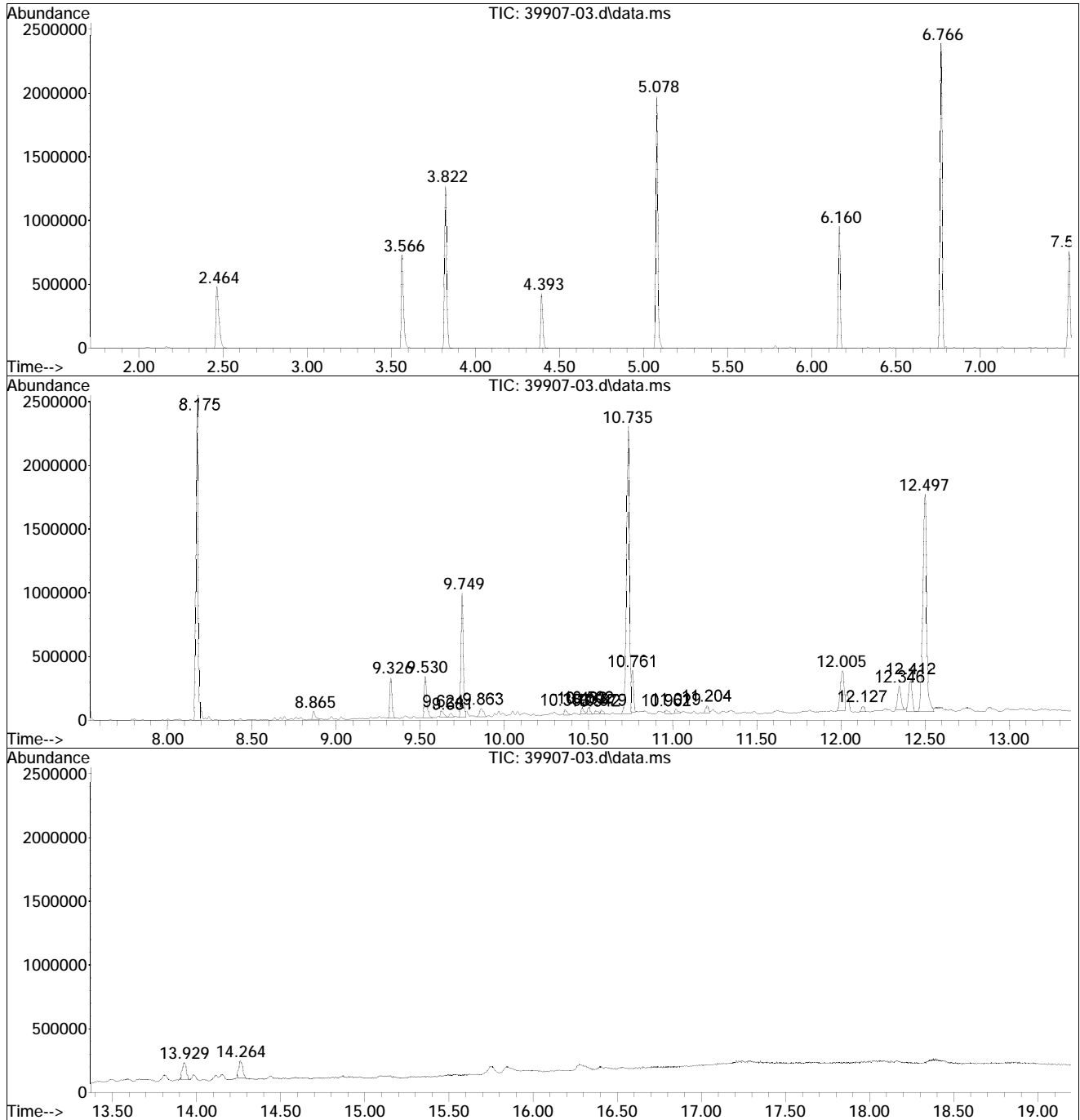
Sum of corrected areas: 19680377

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-03.d
 Acq On : 19 Jul 2023 6:42 am
 Operator : SV103:ek
 Sample : L2339907-03,32,,mg
 Misc : wg1804789,WG1803858,ical20013
 ALS Vial : 23 Sample Multiplier: 1

Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\8270\SV103\230718n\
Data File : 39907-03.d
Acq On : 19 Jul 2023 6:42 am
Operator : SV103:ek
Sample : L2339907-03,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 23 Sample Multiplier: 1

Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV103\230718n\
Data File : 39907-03.d
Acq On : 19 Jul 2023 6:42 am
Operator : SV103:ek
Sample : L2339907-03,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 23 Sample Multiplier: 1

Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-05.d
 Acq On : 19 Jul 2023 7:06 am
 Operator : SV103:ek
 Sample : L2339907-05,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 25 17:58:10 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.825	152	212746	40.000	ug/ml	0.00
Standard Area 1 = 229645			Recovery = 92.64%			
27) IS2_1,4-Dichlorobenzen...	3.825	152	212746	40.000	ug/ml	0.00
Standard Area 3 = 170348			Recovery = 124.89%			
32) IS3_1,4-Dichlorobenzen...	3.825	152	212746	40.000	ug/ml	0.00
Standard Area 2 = 151650			Recovery = 140.29%			
35) IS1_Naphthalene-d8	5.078	136	840974	40.000	ug/ml	0.00
Standard Area 1 = 870434			Recovery = 96.62%			
55) IS2_Naphthalene-d8	5.078	136	840974	40.000	ug/ml	0.00
Standard Area 3 = 647727			Recovery = 129.83%			
63) IS1_Acenaphthene-d10	6.769	164	463771	40.000	ug/ml	0.00
Standard Area 1 = 468195			Recovery = 99.06%			
83) IS2_Acenaphthene-d10	6.769	164	463771	40.000	ug/ml	0.00
Standard Area 3 = 342963			Recovery = 135.22%			
86) IS3_Acenaphthene-d10	6.769	164	463771	40.000	ug/ml	0.00
Standard Area 2 = 314489			Recovery = 147.47%			
88) IS1_Phenanthrene-d10	8.175	188	909702	40.000	ug/ml	0.00
Standard Area 1 = 951685			Recovery = 95.59%			
100) IS3_Phenanthrene-d10	8.175	188	909702	40.000	ug/ml	0.00
Standard Area 2 = 639108			Recovery = 142.34%			
104) IS1_Chrysene-d12	10.738	240	814989	40.000	ug/ml	0.00
Standard Area 1 = 883111			Recovery = 92.29%			
113) IS1_Perylene-d12	12.500	264	949408	40.000	ug/ml	0.00
Standard Area 1 = 990767			Recovery = 95.83%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.469	112	166357	28.057	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 56.11%			
7) Phenol-d6	3.569	99	216734	29.316	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 58.63%			
19) Nitrobenzene-d5	4.393	82	127529	20.787	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery = 83.15%			
46) 2-Fluorobiphenyl	6.160	172	274362	17.351	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery = 69.40%			
79) 2,4,6-Tribromophenol	7.527	330	80631	32.674	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 65.35%			

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-05.d
 Acq On : 19 Jul 2023 7:06 am
 Operator : SV103:ek
 Sample : L2339907-05,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 25 17:58:10 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	9.749	244	312185	14.751	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	59.00%
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0		N.D.	
8) Phenol	0.000		0		N.D.	d
9) Bis(2-chloroethyl)ether	0.000		0		N.D.	
14) Bis(2-chloroisopropyl)...	0.000		0		N.D.	
15) 2-Methylphenol	0.000		0		N.D.	
16) Hexachloroethane	0.000		0		N.D.	
17) n-Nitrosodi-n-propylamine	0.000		0		N.D.	
18) 3-Methylphenol/4-Methy...	0.000		0		N.D.	d
20) Nitrobenzene	0.000		0		N.D.	d
21) Isophorone	0.000		0		N.D.	d
22) 2-Nitrophenol	0.000		0		N.D.	
23) 2,4-Dimethylphenol	0.000		0		N.D.	
24) Bis(2-chloroethoxy)met...	0.000		0		N.D.	
25) 2,4-Dichlorophenol	0.000		0		N.D.	
28) Benzaldehyde	0.000		0		N.D.	d
29) Acetophenone	0.000		0		N.D.	d
36) Naphthalene	5.098	128	32090	1.450	ug/ml	99
38) 4-Chloroaniline	0.000		0		N.D.	
39) Hexachlorobutadiene	0.000		0		N.D.	
40) p-Chloro-m-cresol	0.000		0		N.D.	
41) 2-Methylnaphthalene	5.780	142	14607	1.061	ug/ml	97
43) Hexachlorocyclopentadiene	0.000		0		N.D.	
44) 2,4,6-Trichlorophenol	0.000		0		N.D.	
45) 2,4,5-Trichlorophenol	0.000		0		N.D.	
47) 2-Chloronaphthalene	0.000		0		N.D.	d
48) 2-Nitroaniline	0.000		0		N.D.	
51) Dimethyl phthalate	0.000		0		N.D.	
52) Acenaphthylene	6.626	152	9993	0.479	ug/ml#	94
53) 2,6-Dinitrotoluene	0.000		0		N.D.	
60) Caprolactam	0.000		0		N.D.	d
61) 1,2,4,5-Tetrachloroben...	0.000		0		N.D.	
62) Biphenyl	0.000		0		N.D.	d
64) 3-Nitroaniline	0.000		0		N.D.	

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-05.d
 Acq On : 19 Jul 2023 7:06 am
 Operator : SV103:ek
 Sample : L2339907-05,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 25 17:58:10 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Acenaphthene	6.797	154	4732	0.352	ug/ml#	80
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	6.967	168	15327	0.735	ug/ml	98
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
73) Fluorene	7.291	166	6773	0.419	ug/ml#	91
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.	d	
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
81) Hexachlorobenzene	0.000		0	N.D.		
82) Pentachlorophenol	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
89) Phenanthrene	8.195	178	182882	7.294	ug/ml	98
90) Anthracene	8.243	178	54833	2.220	ug/ml#	95
91) Carbazole	8.428	167	9889	0.427	ug/ml#	86
92) Di-n-butylphthalate	0.000		0	N.D.	d	
93) Fluoranthene	9.329	202	658342	25.020	ug/ml	98
95) Pyrene	9.533	202	635153	22.447	ug/ml#	95
97) Butyl benzyl phthalate	0.000		0	N.D.	d	
105) Benzo(a)anthracene	10.727	228	346548	12.836	ug/ml#	91
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
107) Chrysene	10.761	228	323151	11.957	ug/ml	98
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	
110) Benzo(b)fluoranthene	12.008	252	434863	16.593	ug/ml	98
111) Benzo(k)fluoranthene	12.037	252	137303M3	5.107	ug/ml	
112) Benzo(a)pyrene	12.414	252	330698	14.633	ug/ml	96
114) Indeno(1,2,3-cd)pyrene	13.932	276	219216	10.824	ug/mL	94
115) Dibenzo(a,h)anthracene	13.986	278	43612	1.796	ug/ml#	90
116) Benzo(ghi)perylene	14.270	276	219221	8.866	ug/ml#	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\8270\SV103\230718n\
Data File : 39907-05.d
Acq On : 19 Jul 2023 7:06 am
Operator : SV103:ek
Sample : L2339907-05,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 25 17:58:10 2023
Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 06:15:42 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
Sub List : 8270TCL_REV2 - TCL/CT/MA

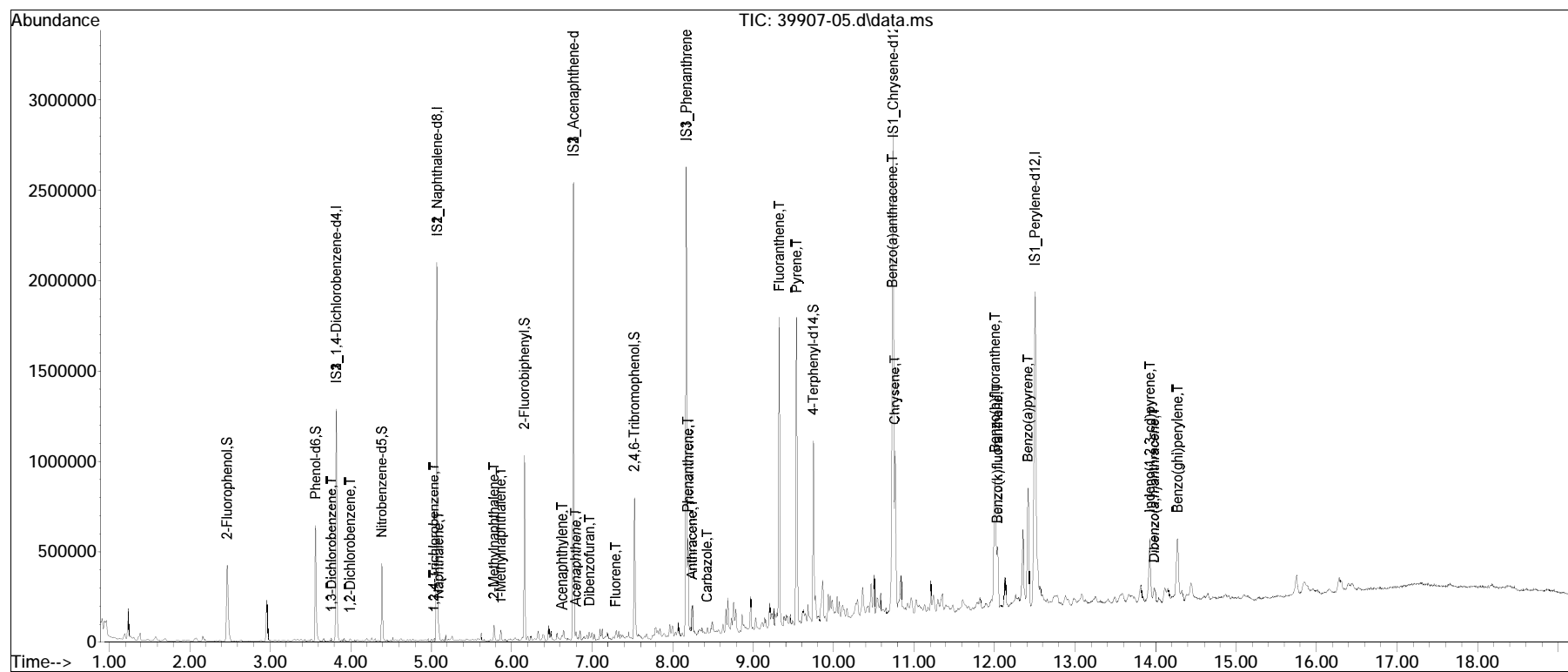
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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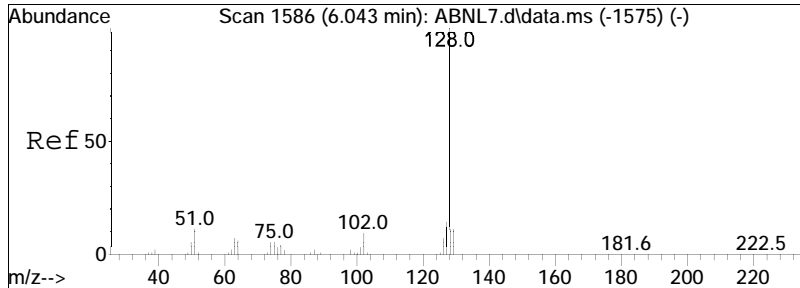
Quantitation Report (QT/LSC Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-05.d
 Acq On : 19 Jul 2023 7:06 am
 Operator : SV103:ek
 Sample : L2339907-05,32,,mg
 Misc : wg1804789,WG1803858,ical20013
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 25 17:58:10 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

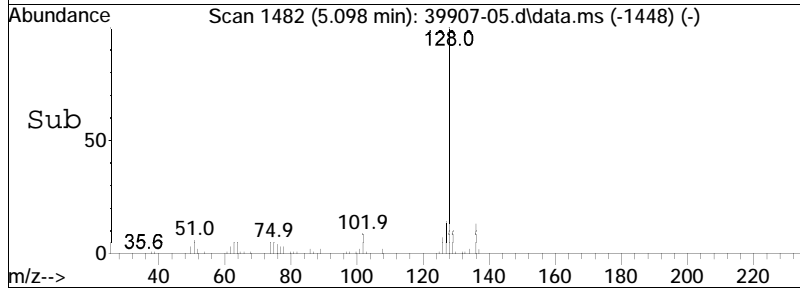
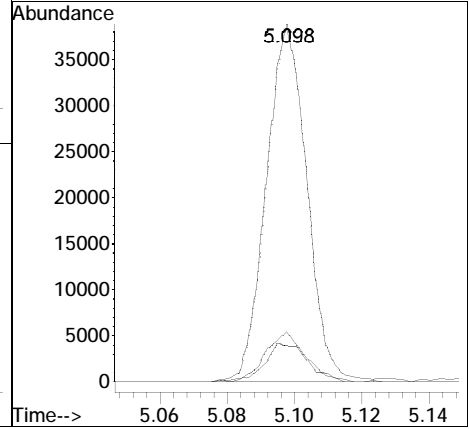
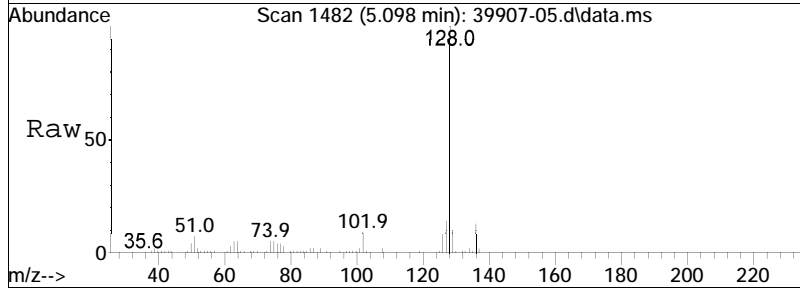
Sub List : 8270TCL_REV2 - TCL/CT/MAn\AP90718n.d•

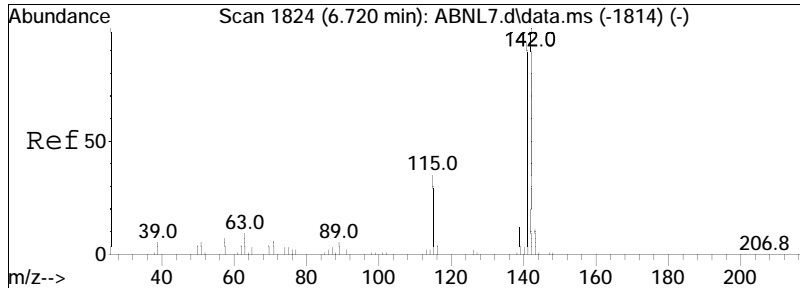




#36
 Naphthalene
 Concen: 1.45 ug/ml
 RT: 5.098 min Scan# 1482
 Delta R.T. -0.003 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

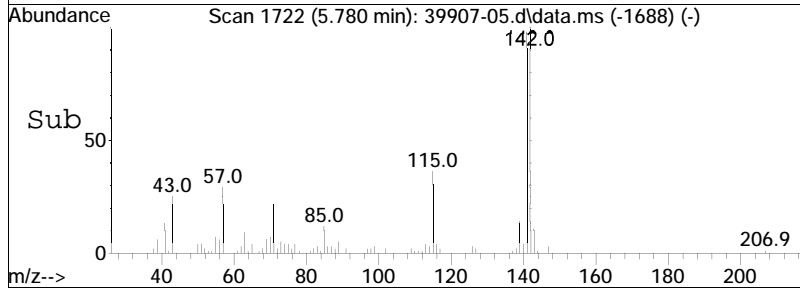
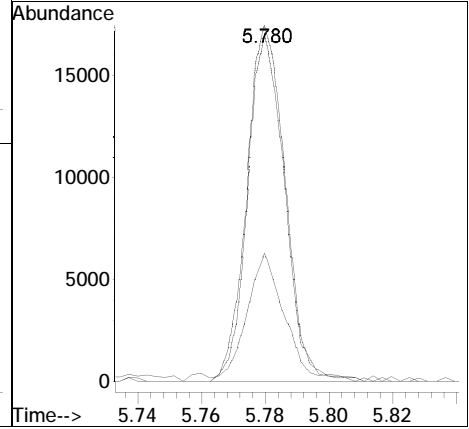
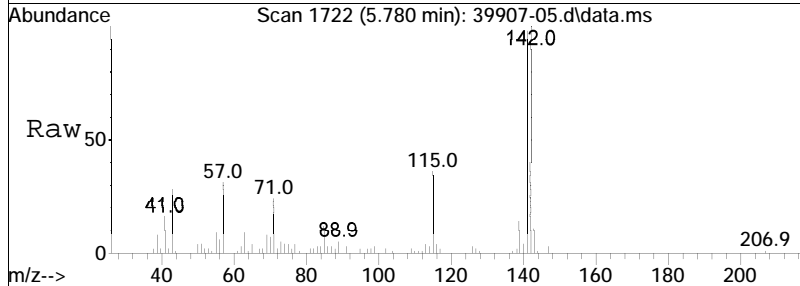
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.7	8.7	13.1
127	13.8	10.7	16.1

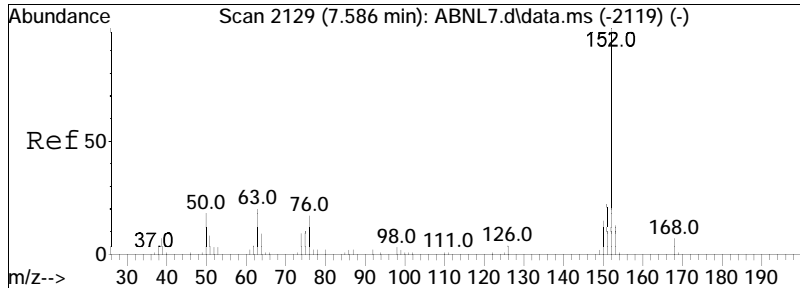




#41
 2-Methylnaphthalene
 Concen: 1.06 ug/ml
 RT: 5.780 min Scan# 1722
 Delta R.T. -0.003 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

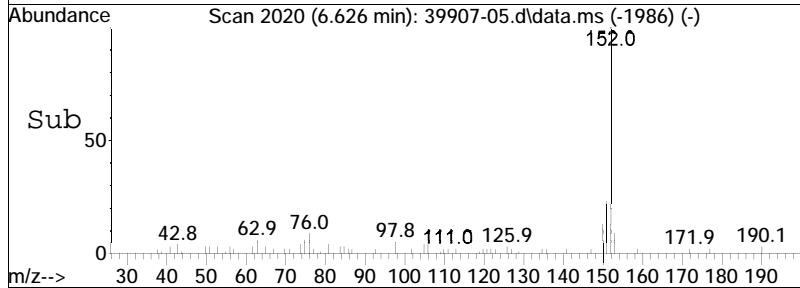
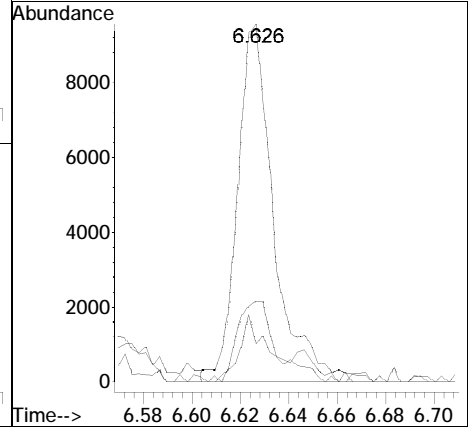
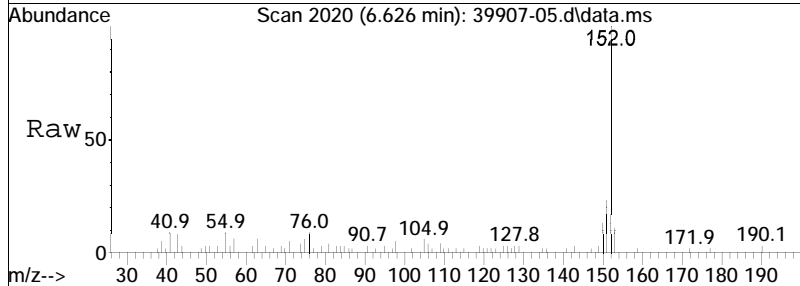
Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.6	71.8	107.8
115	35.5	29.1	43.7

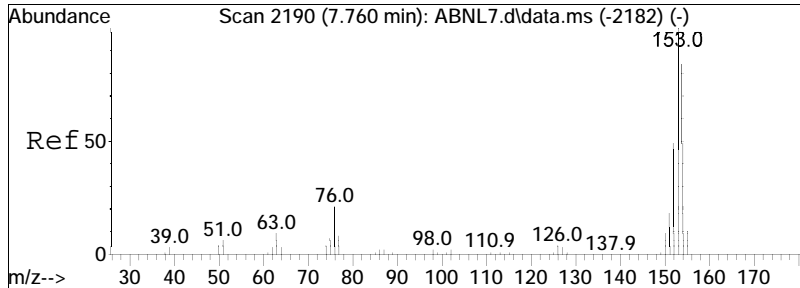




#52
 Acenaphthylene
 Concen: 0.48 ug/ml
 RT: 6.626 min Scan# 2020
 Delta R.T. -0.003 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

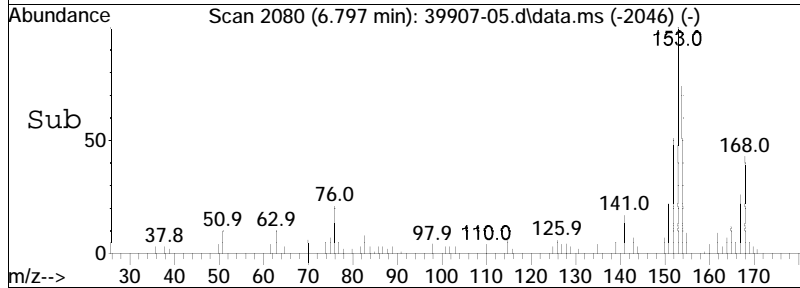
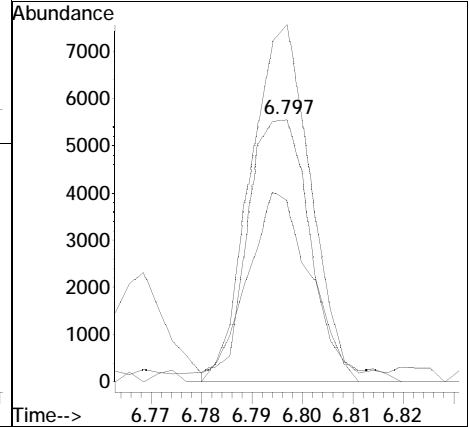
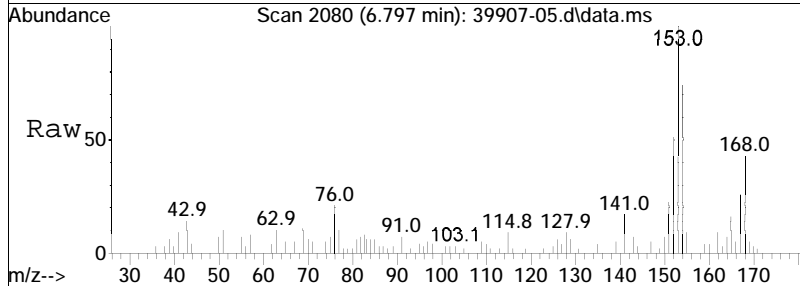
Tgt Ion	Resp	Lower	Upper
152	100		
151	24.7	16.4	24.6#
153	14.8	11.0	16.6

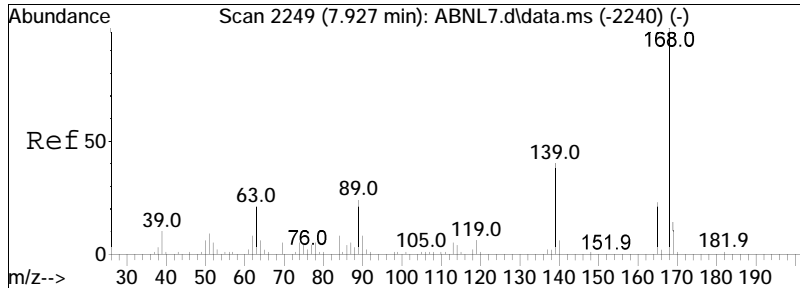




#65
 Acenaphthene
 Concen: 0.35 ug/ml
 RT: 6.797 min Scan# 2080
 Delta R.T. -0.003 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

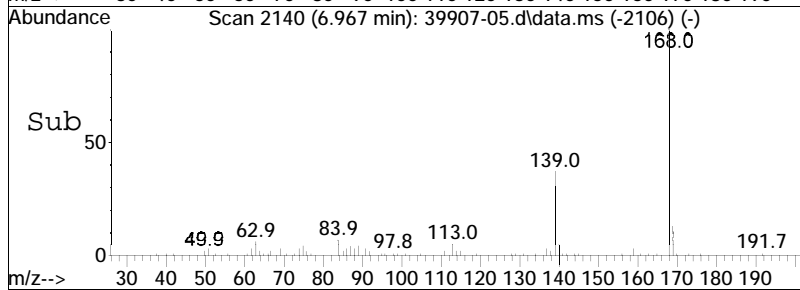
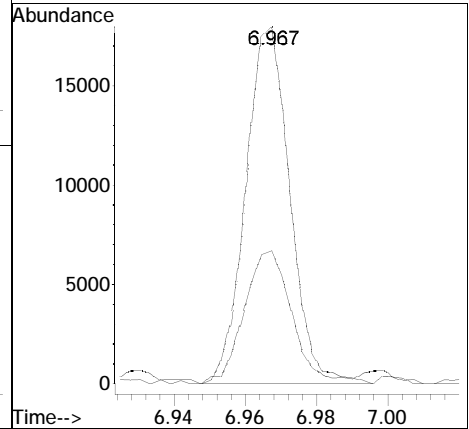
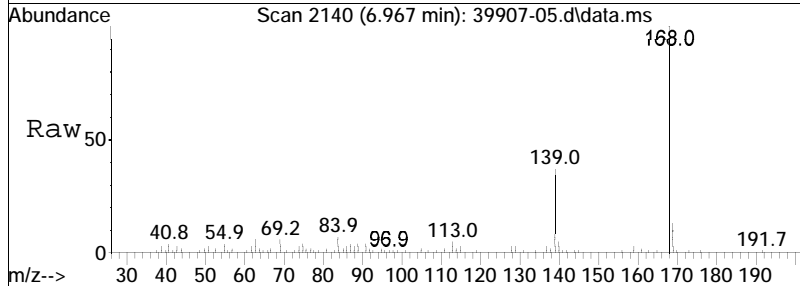
Tgt Ion	Resp	Lower	Upper
154	4732		
153	134.0	91.3	136.9
152	67.1	41.0	61.4#

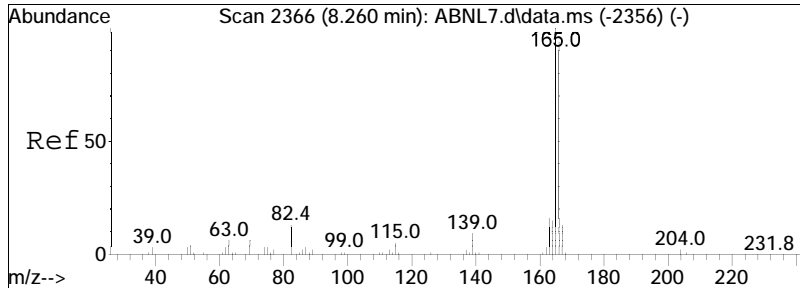




#67
 Dibenzofuran
 Concen: 0.74 ug/ml
 RT: 6.967 min Scan# 2140
 Delta R.T. -0.003 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

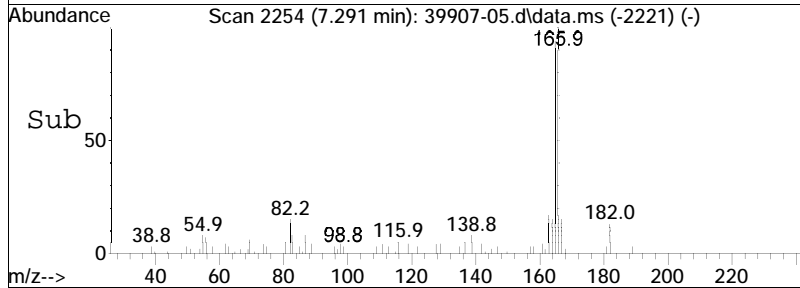
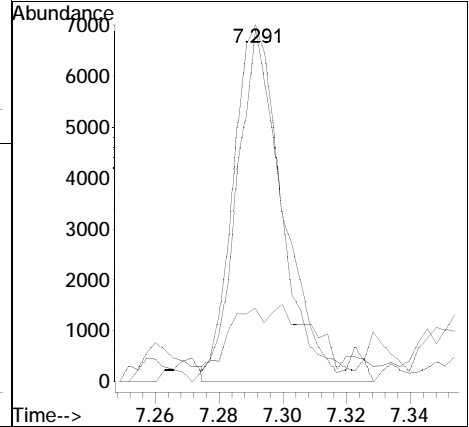
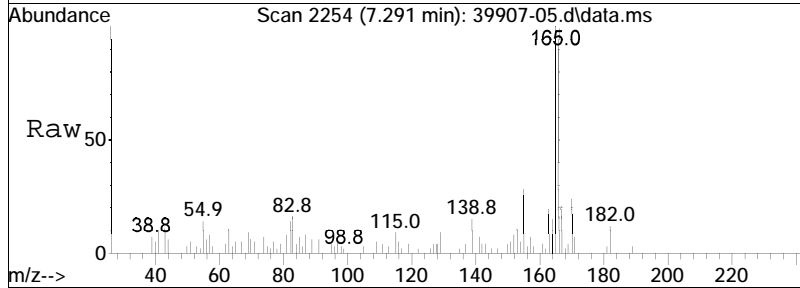
Tgt Ion	Ratio	Lower	Upper
168	100		
139	40.3	33.2	49.8

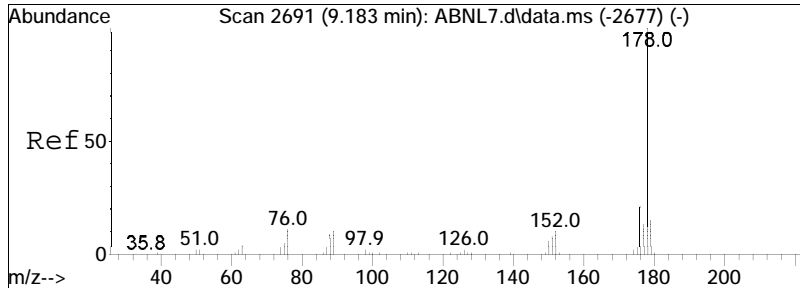




#73
 Fluorene
 Concen: 0.42 ug/ml
 RT: 7.291 min Scan# 2254
 Delta R.T. -0.006 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

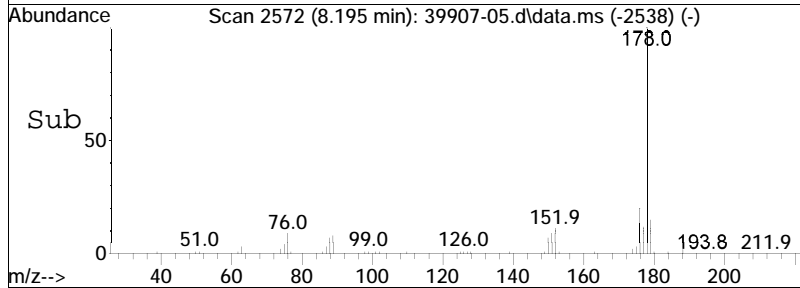
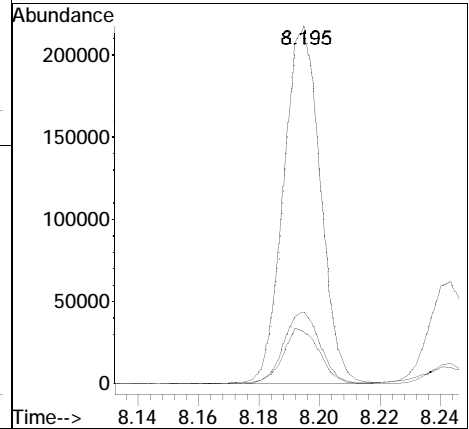
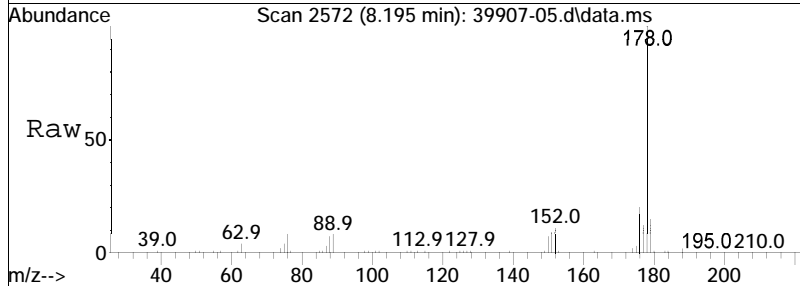
Tgt Ion	Resp	Lower	Upper
166	100		
165	108.0	79.3	118.9
167	18.3	10.6	16.0#

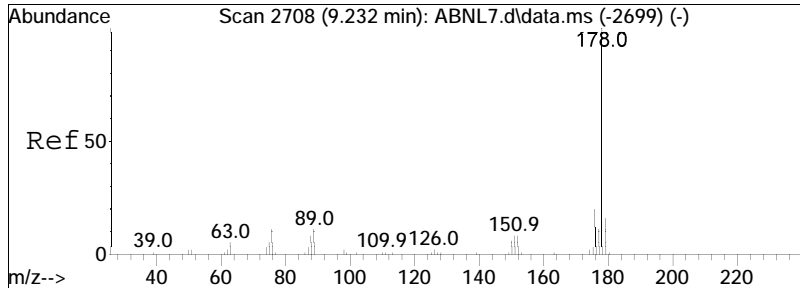




#89
 Phenanthrene
 Concen: 7.29 ug/ml
 RT: 8.195 min Scan# 2572
 Delta R.T. -0.003 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

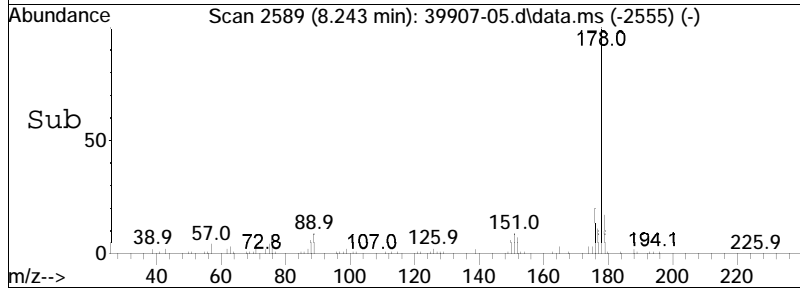
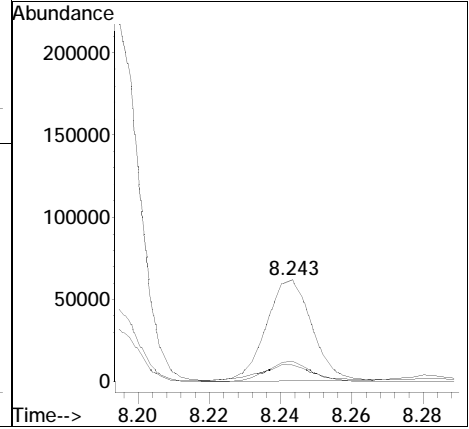
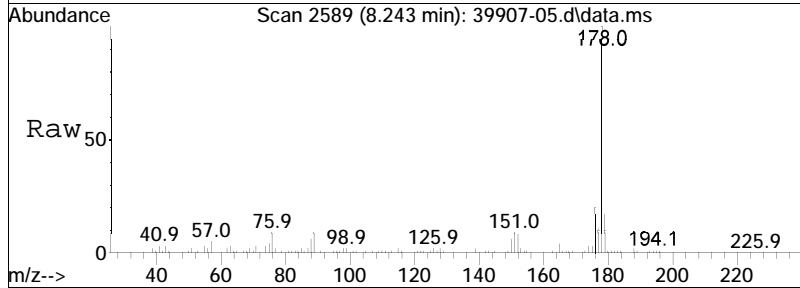
Tgt Ion	Ratio	Lower	Upper
178	100		
179	16.0	12.2	18.2
176	20.1	15.4	23.2

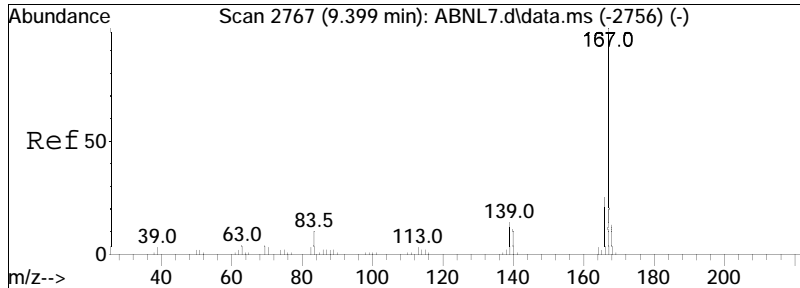




#90
 Anthracene
 Concen: 2.22 ug/ml
 RT: 8.243 min Scan# 2589
 Delta R.T. -0.003 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

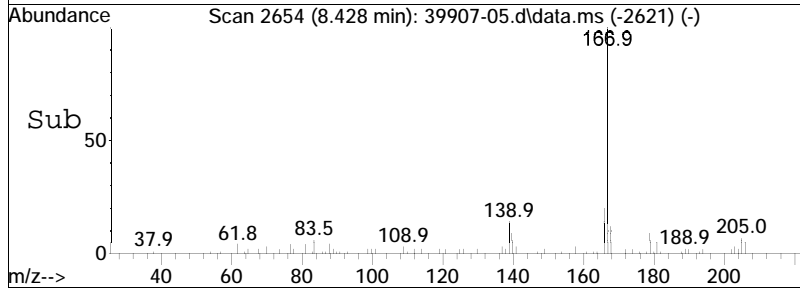
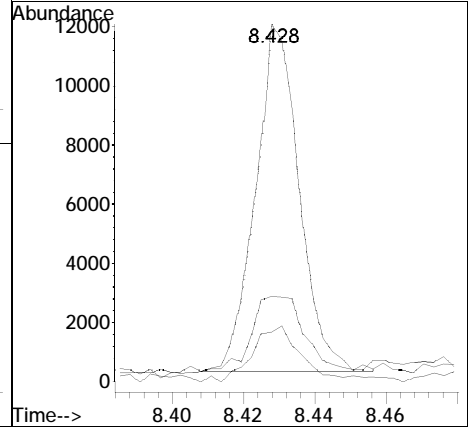
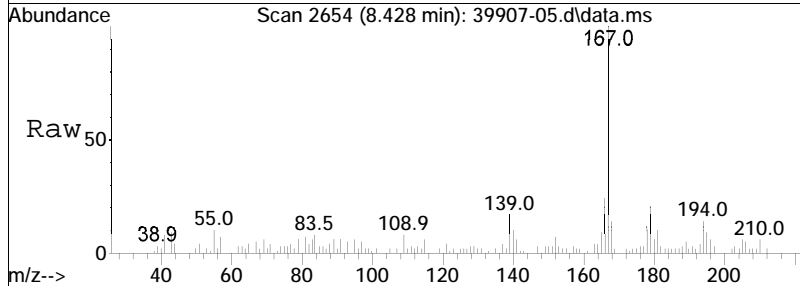
Tgt Ion	Ratio	Lower	Upper
178	100		
179	18.6	12.1	18.1#
176	19.6	14.8	22.2

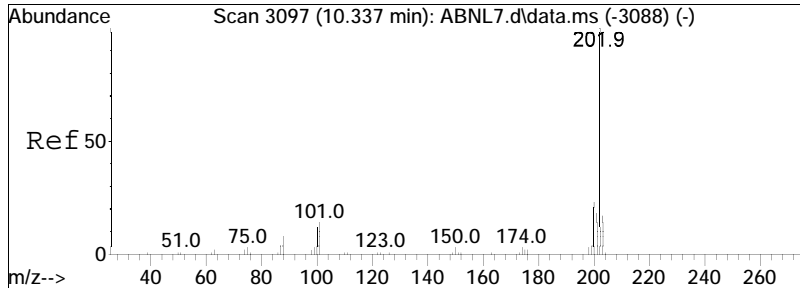




#91
 Carbazole
 Concen: 0.43 ug/ml
 RT: 8.428 min Scan# 2654
 Delta R.T. -0.006 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

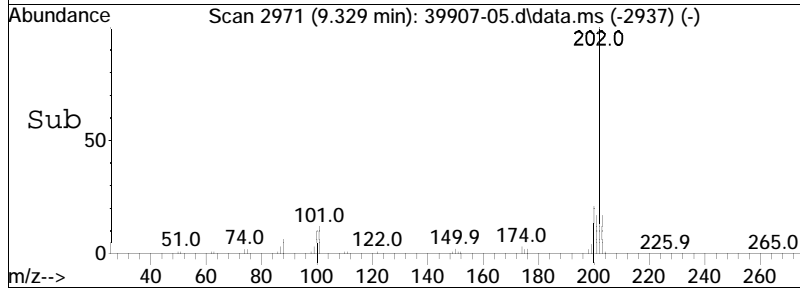
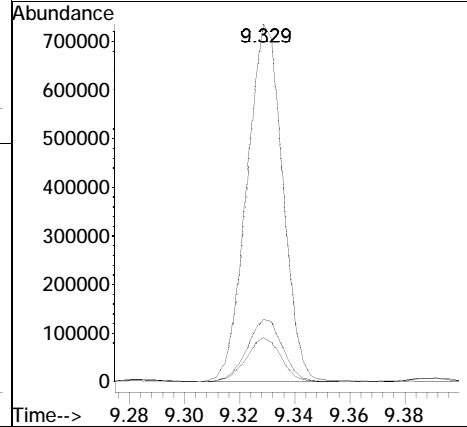
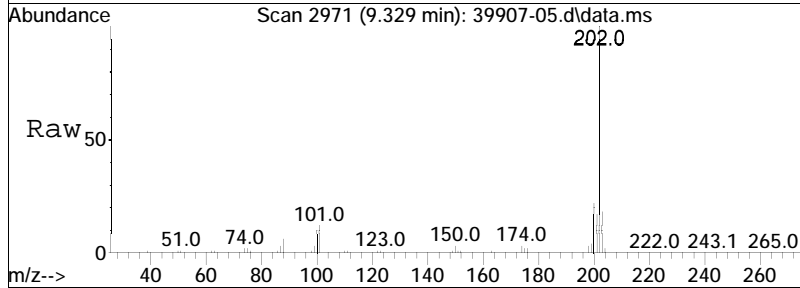
Tgt Ion	Resp	Lower	Upper
167	100		
168	19.5	10.6	15.8#
166	28.1	17.7	26.5#

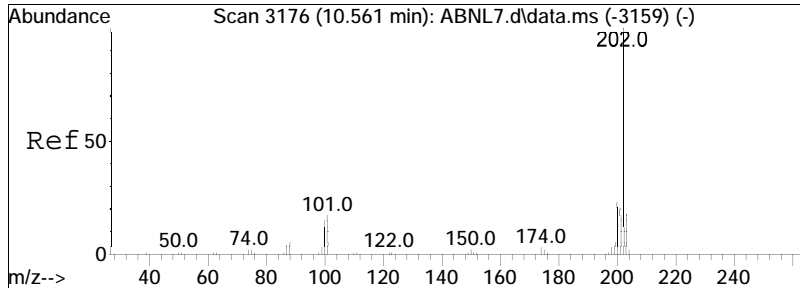




#93
 Fluoranthene
 Concen: 25.02 ug/ml
 RT: 9.329 min Scan# 2971
 Delta R.T. -0.003 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

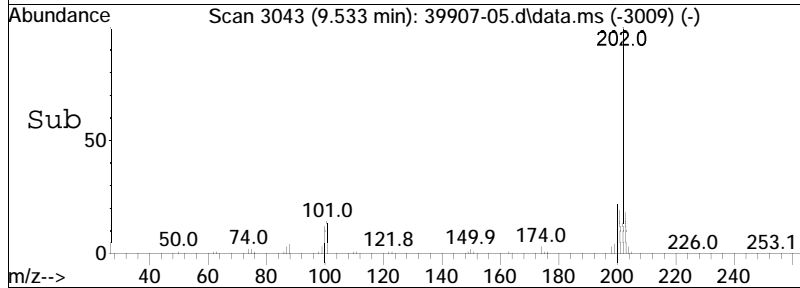
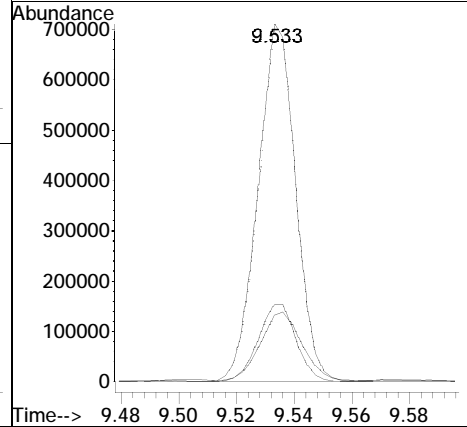
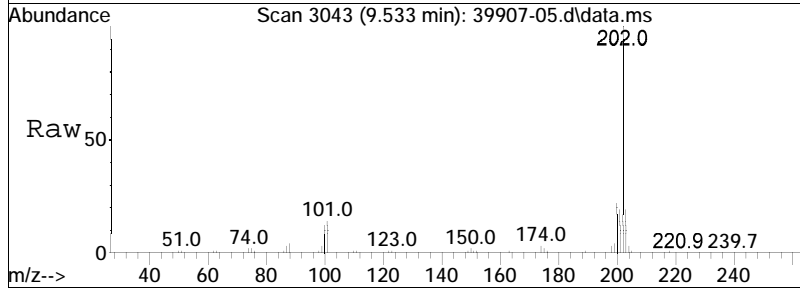
Tgt Ion	202	Resp:	658342
Ion Ratio	Lower	Upper	
202	100		
101	12.2	11.4	17.0
203	17.4	13.9	20.9

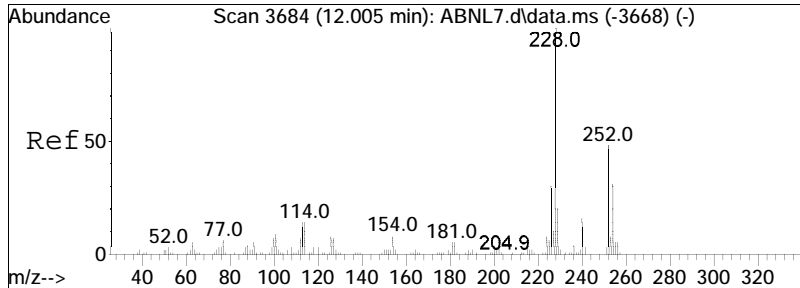




#95
 Pyrene
 Concen: 22.45 ug/ml
 RT: 9.533 min Scan# 3043
 Delta R.T. -0.003 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

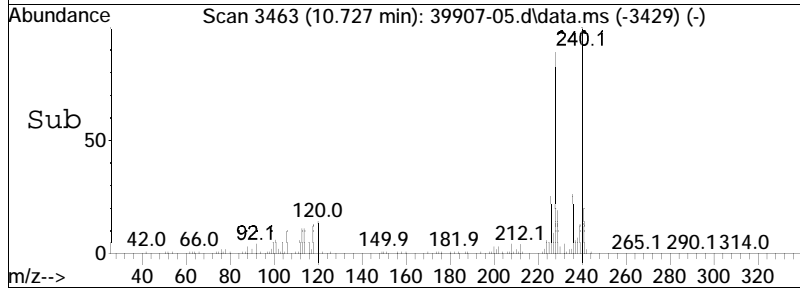
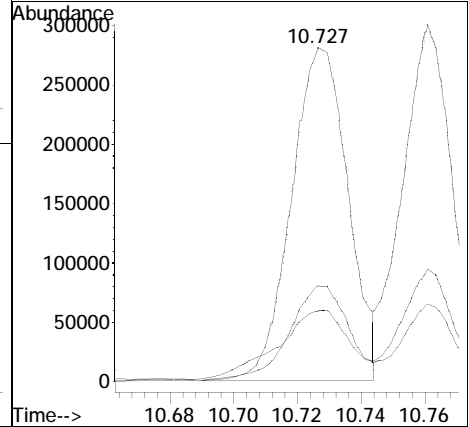
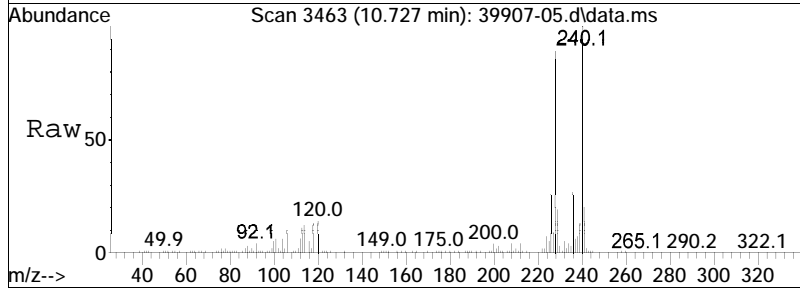
Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.1	17.0	25.4
203	21.4	14.2	21.2#

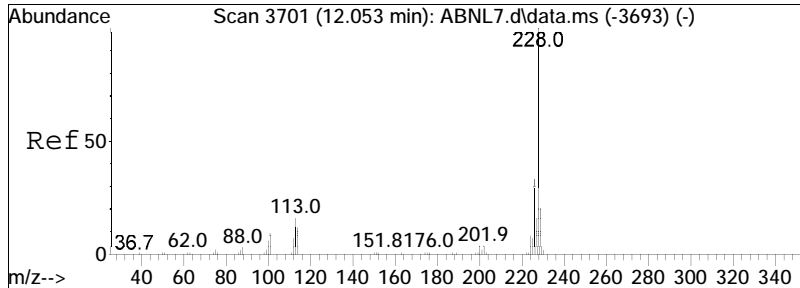




#105
 Benzo(a)anthracene
 Concen: 12.84 ug/ml
 RT: 10.727 min Scan# 3463
 Delta R.T. -0.003 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

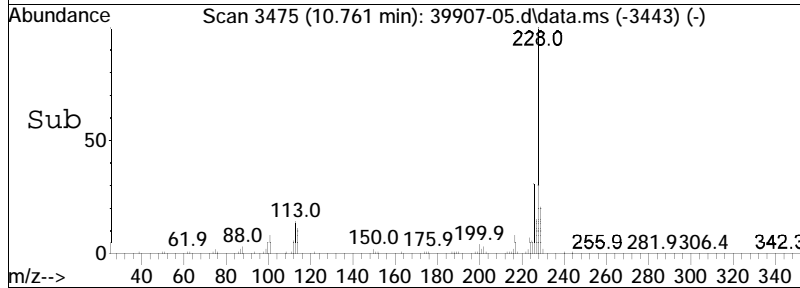
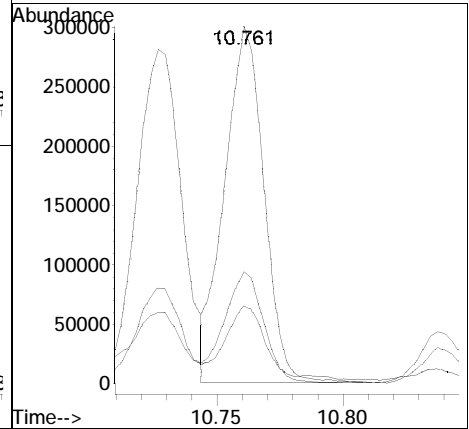
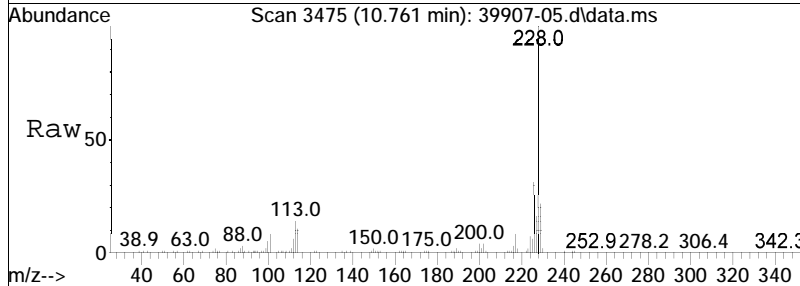
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.2	33.2
229	26.5	15.6	23.4

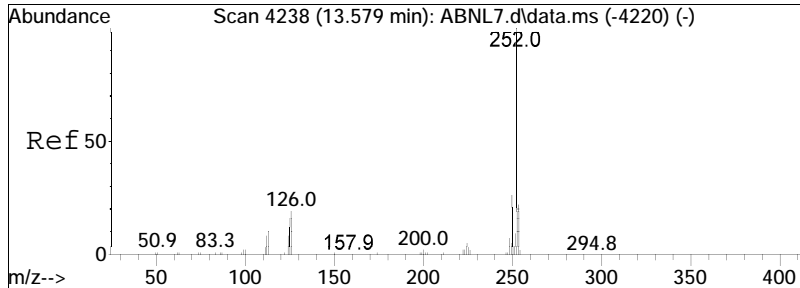




#107
 Chrysene
 Concen: 11.96 ug/ml
 RT: 10.761 min Scan# 3475
 Delta R.T. -0.009 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

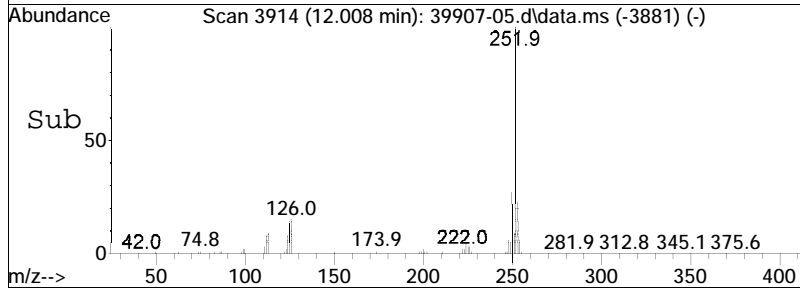
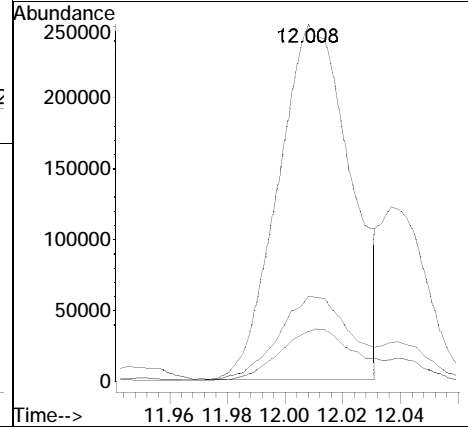
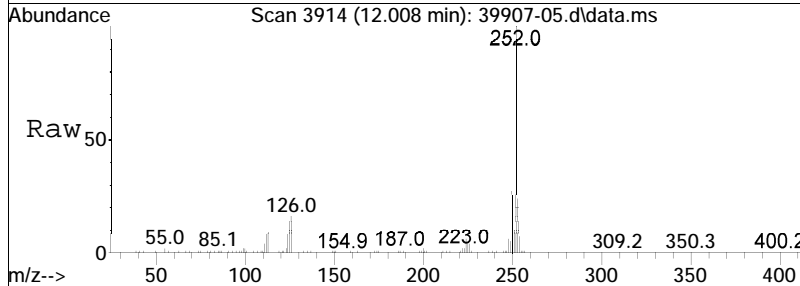
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	22.3	15.8	23.6

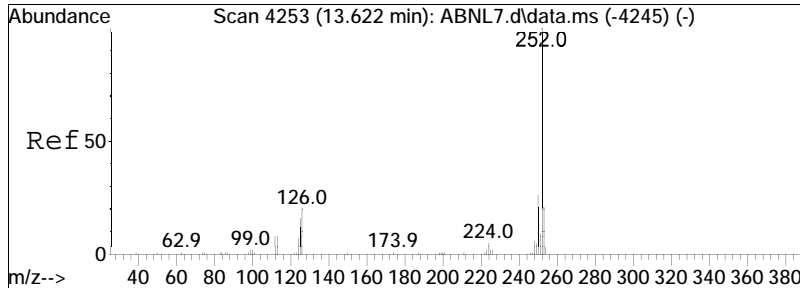




#110
 Benzo(b)fluoranthene
 Concen: 16.59 ug/ml
 RT: 12.008 min Scan# 3914
 Delta R.T. -0.006 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

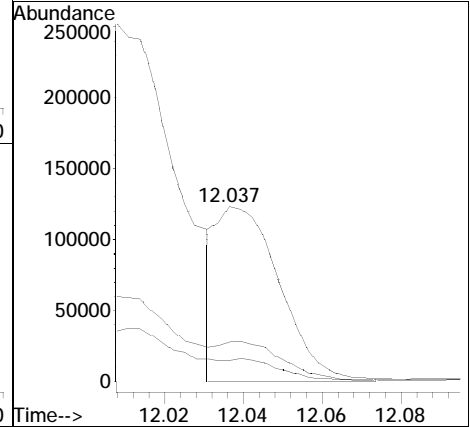
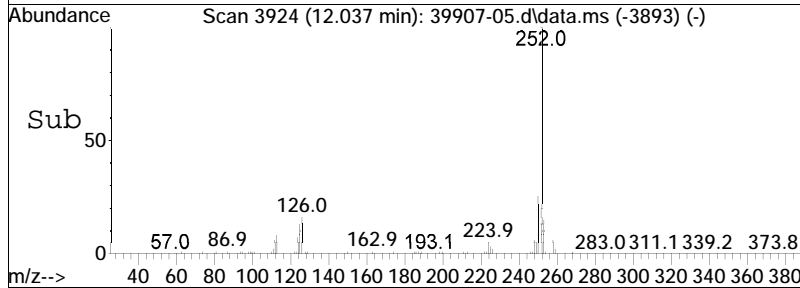
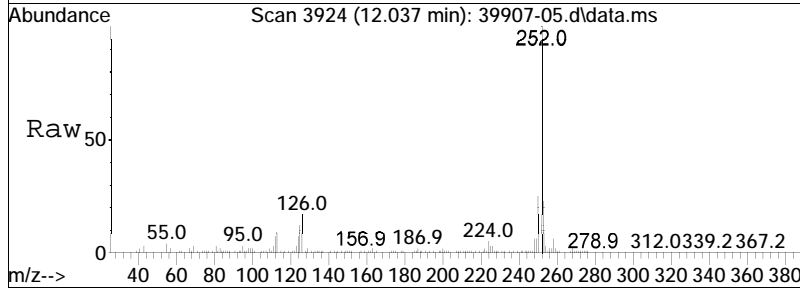
Tgt Ion	Ratio	Lower	Upper
252	100		
125	15.1	11.6	17.4
253	23.0	17.4	26.0

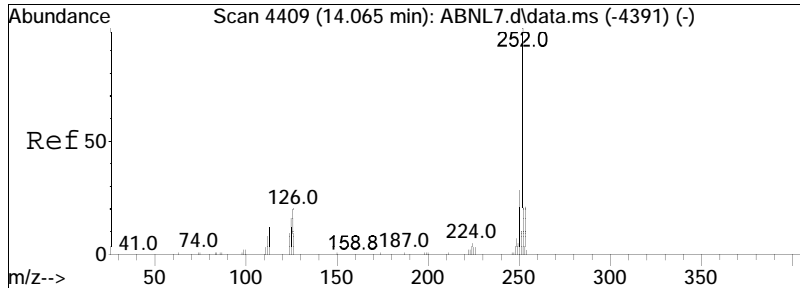




#111
 Benzo(k)fluoranthene
 Concen: 5.11 ug/ml M3
 RT: 12.037 min Scan# 3924
 Delta R.T. -0.012 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

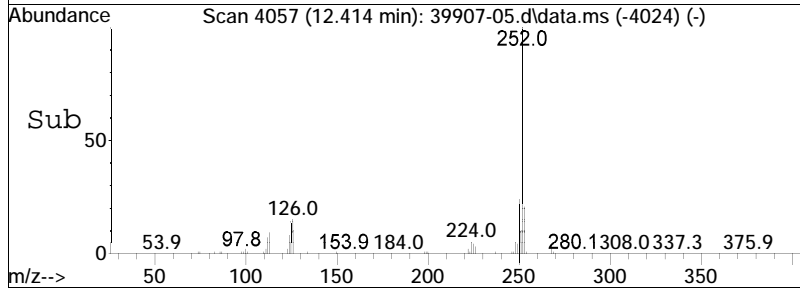
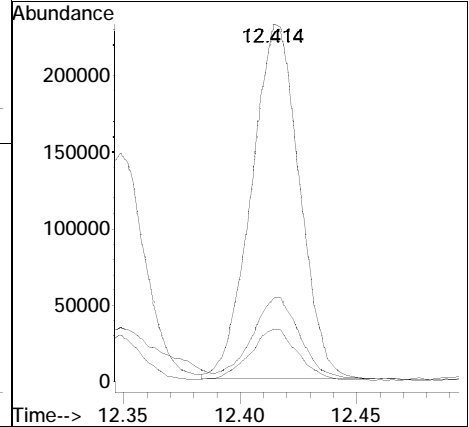
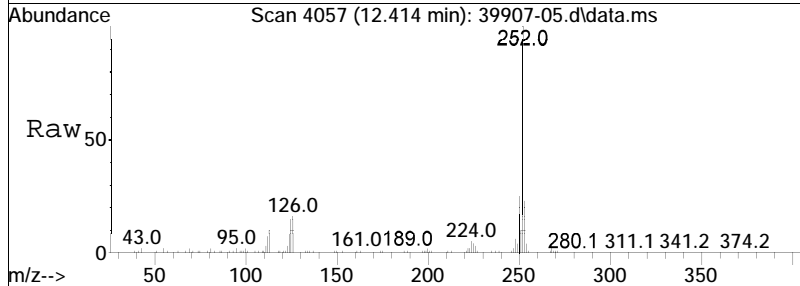
Tgt Ion	Resp	Lower	Upper
252	100		
125	47.9	11.4	17.0#
253	72.7	17.2	25.8#

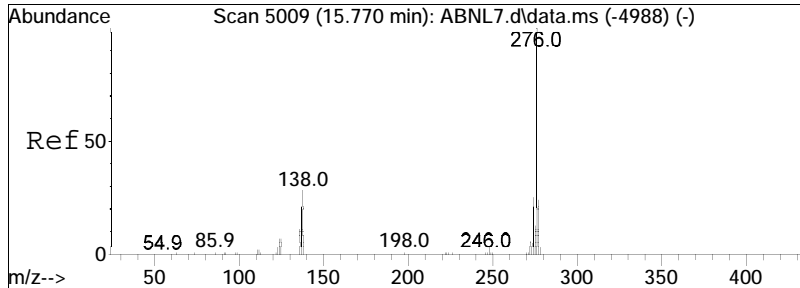




#112
 Benzo(a)pyrene
 Concen: 14.63 ug/ml
 RT: 12.414 min Scan# 4057
 Delta R.T. -0.006 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

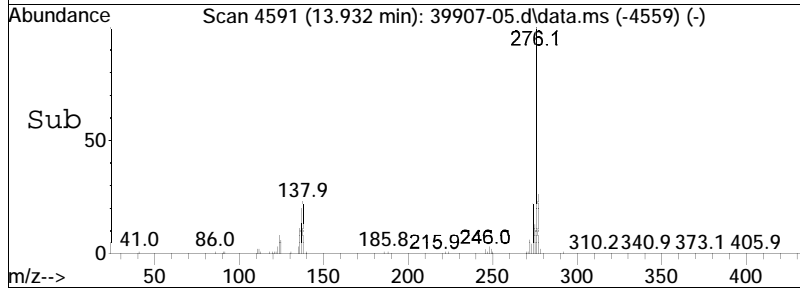
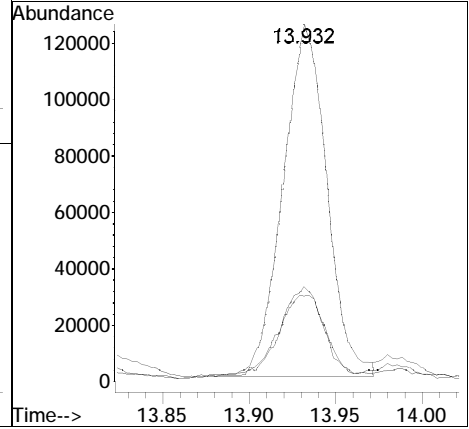
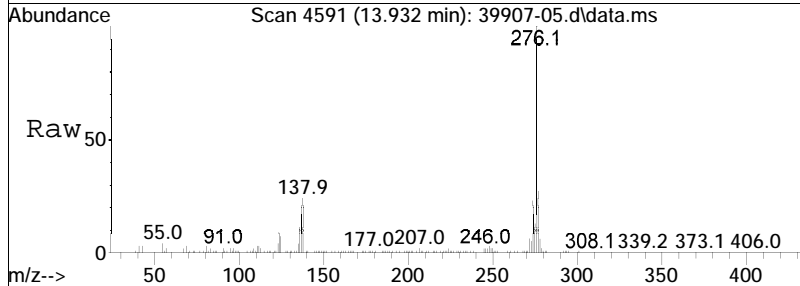
Tgt Ion	Ratio	Lower	Upper
252	100		
125	14.3	12.6	18.8
253	23.2	16.9	25.3

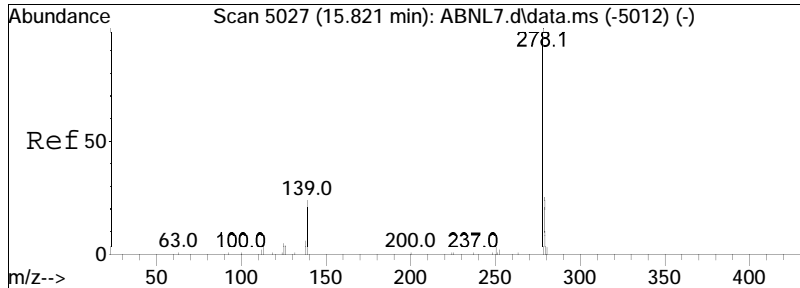




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 10.82 ug/mL
 RT: 13.932 min Scan# 4591
 Delta R.T. -0.009 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

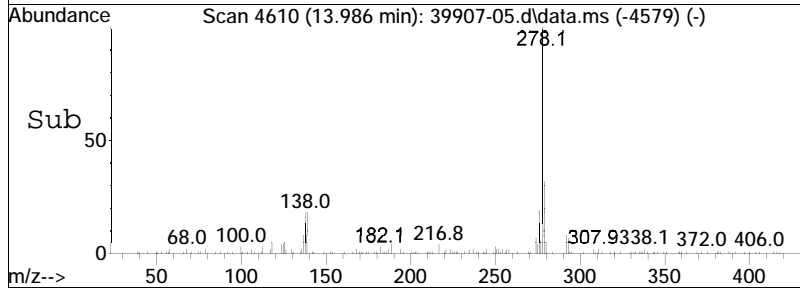
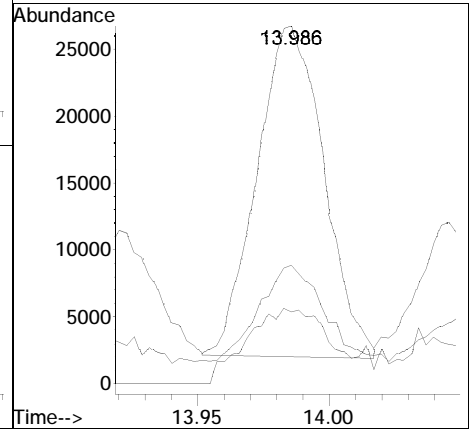
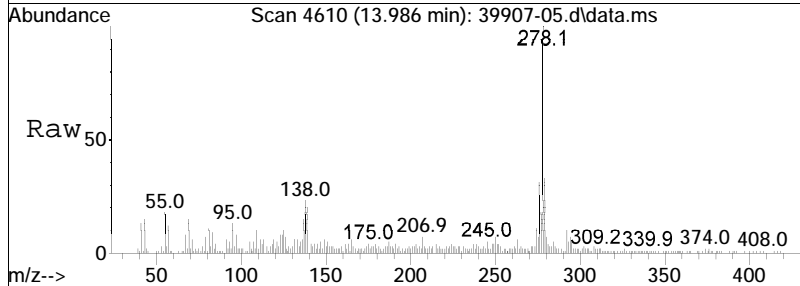
Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.0	21.4	32.0
277	28.0	19.2	28.8

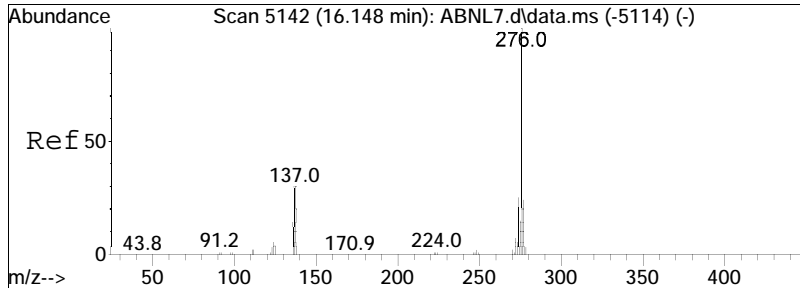




#115
 Dibenzo(a,h)anthracene
 Concen: 1.80 ug/ml
 RT: 13.986 min Scan# 4610
 Delta R.T. -0.012 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

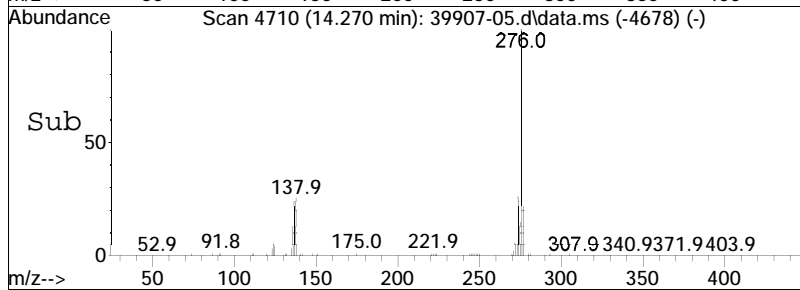
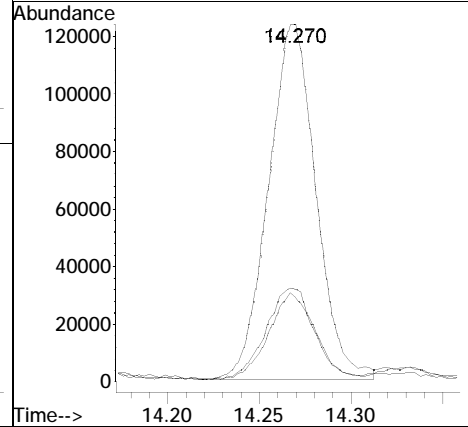
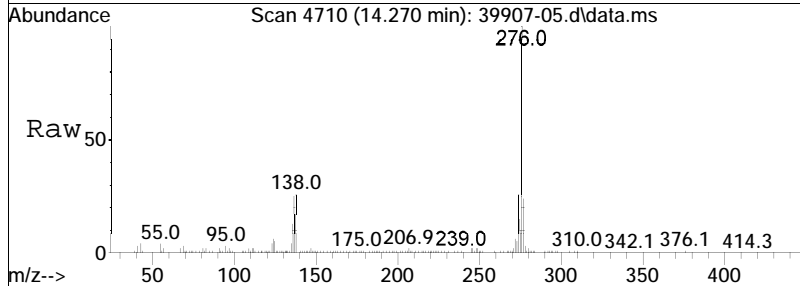
Tgt Ion	Ratio	Lower	Upper
278	100		
139	27.6	17.1	25.7#
279	28.1	19.3	28.9





#116
 Benzo(ghi)perylene
 Concen: 8.87 ug/ml
 RT: 14.270 min Scan# 4710
 Delta R.T. -0.009 min
 Lab File: 39907-05.d
 Acq: 19 Jul 2023 7:06 am

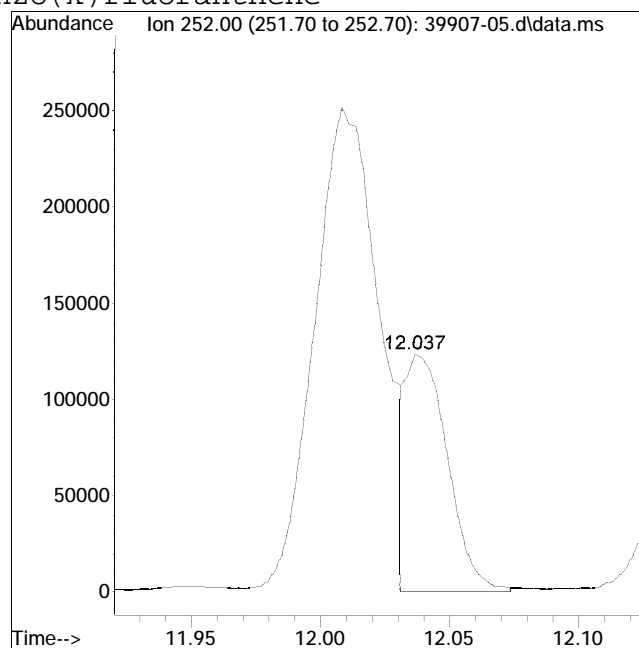
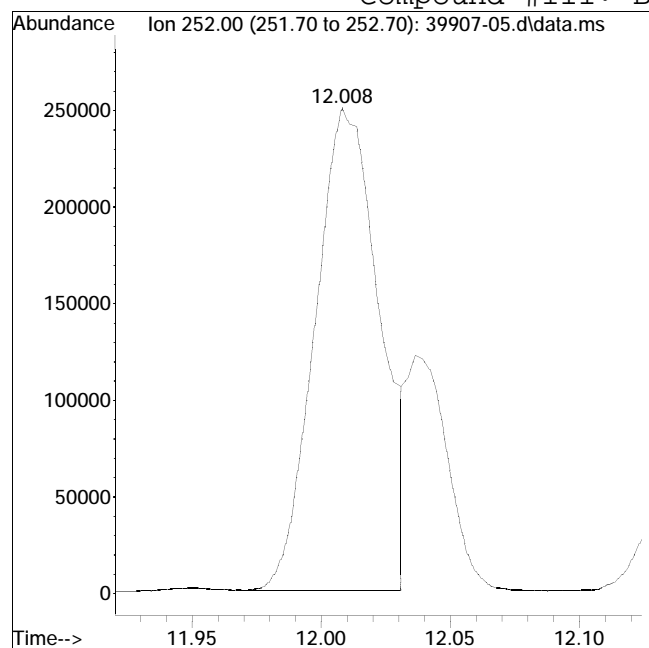
Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.3	26.7	40.1#
277	23.9	19.4	29.2



Manual Integration Report

Data Path : I:\8270\SV103\230718n\ QMethod : FS230515nSV103.m
Data File : 39907-05.d Operator : SV103:ek
Date Inj'd : 7/19/2023 7:06 am Instrument : SV103
Sample : L2339907-05,32,,mg Quant Date : 7/19/2023 7:26 am

Compound #111: Benzo(k)fluoranthene



Original Peak Response = 434863

Manual Peak Response = 137303 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

LSC Area Percent Report

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-05.d
 Acq On : 19 Jul 2023 7:06 am
 Operator : SV103:ek
 Sample : L2339907-05,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 500 Area counts
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 39907-05.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.157	440	447	456	rBV4	25264	37377	1.10%	0.121%
2	2.469	543	557	572	rBV	420033	575190	16.91%	1.867%
3	2.958	720	729	748	rVB	224883	274537	8.07%	0.891%
4	3.569	937	944	966	rBV	642028	628280	18.47%	2.039%
5	3.825	1020	1034	1047	rBV	1283590	1221225	35.89%	3.963%
6	4.393	1228	1234	1244	rBV	430518	374288	11.00%	1.215%
7	5.078	1467	1475	1490	rBV	2098072	1763700	51.84%	5.724%
8	5.780	1716	1722	1734	rVB2	87067	82034	2.41%	0.266%
9	5.868	1748	1753	1760	rVB	57730	48195	1.42%	0.156%
10	6.160	1849	1856	1864	rVB	1021591	823095	24.19%	2.671%
11	6.334	1909	1917	1925	rVB3	50826	54045	1.59%	0.175%
12	6.385	1929	1935	1949	rVB4	33532	51224	1.51%	0.166%
13	6.462	1955	1962	1966	rBV	82330	74001	2.18%	0.240%
14	6.484	1966	1970	1986	rVB2	49465	55836	1.64%	0.181%
15	6.570	1993	2000	2007	rBV2	35953	43207	1.27%	0.140%
16	6.644	2022	2026	2033	rVB2	45054	35585	1.05%	0.115%
17	6.769	2061	2070	2076	rBV	2534025	2105270	61.88%	6.832%
18	6.845	2091	2097	2106	rVB3	53025	49213	1.45%	0.160%
19	6.965	2135	2139	2145	rBV	38877	34187	1.00%	0.111%
20	7.101	2180	2187	2191	rBV2	50315	48158	1.42%	0.156%
21	7.127	2191	2196	2203	rVB4	48102	44090	1.30%	0.143%
22	7.183	2213	2216	2226	rVB7	33341	42583	1.25%	0.138%
23	7.300	2249	2257	2262	rBV6	43309	47708	1.40%	0.155%
24	7.527	2330	2337	2348	rBV	781473	733360	21.55%	2.380%
25	7.848	2446	2450	2459	rVB4	43764	41820	1.23%	0.136%
26	7.968	2485	2492	2496	rBV3	66656	64458	1.89%	0.209%
27	7.999	2496	2503	2509	rVB2	57569	70157	2.06%	0.228%
28	8.070	2519	2528	2533	rBV4	70882	74398	2.19%	0.241%

LSC Area Percent Report

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-05.d
 Acq On : 19 Jul 2023 7:06 am
 Operator : SV103:ek
 Sample : L2339907-05,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 500 Area counts
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Title : Semivolatiles by GC/MS by modified 8270

29	8.175	2556	2565	2569	rBV	2599877	2299310	67.58%	7.462%
30	8.195	2569	2572	2578	rVB	511943	378173	11.12%	1.227%
31	8.243	2584	2589	2596	rVB	145980	122289	3.59%	0.397%
32	8.633	2720	2726	2732	rBV5	48208	47032	1.38%	0.153%
33	8.669	2733	2739	2743	rBV	130706	118073	3.47%	0.383%
34	8.692	2743	2747	2757	rVV	183295	163005	4.79%	0.529%
35	8.735	2757	2762	2766	rVV	68005	62936	1.85%	0.204%
36	8.760	2766	2771	2777	rVV2	151019	187536	5.51%	0.609%
37	8.789	2777	2781	2787	rVB	109989	90986	2.67%	0.295%
38	8.866	2803	2808	2813	rBV4	97742	93544	2.75%	0.304%
39	8.971	2839	2845	2853	rVB3	180561	172028	5.06%	0.558%
40	9.033	2862	2867	2880	rVB5	60900	65801	1.93%	0.214%
41	9.138	2899	2904	2907	rBV	51016	38489	1.13%	0.125%
42	9.206	2921	2928	2932	rBV	130722	133922	3.94%	0.435%
43	9.255	2942	2945	2950	rVB4	89859	68101	2.00%	0.221%
44	9.283	2950	2955	2959	rBV4	64425	64390	1.89%	0.209%
45	9.329	2964	2971	2978	rVB	1688710	1489212	43.77%	4.833%
46	9.388	2988	2992	2996	rBV2	47113	43514	1.28%	0.141%
47	9.536	3035	3044	3054	rBV	1701697	1741836	51.20%	5.653%
48	9.613	3065	3071	3072	rBV2	67587	57666	1.69%	0.187%
49	9.678	3089	3094	3102	rBV2	85774	106530	3.13%	0.346%
50	9.749	3112	3119	3125	rBV	1000050	952892	28.01%	3.092%
51	9.874	3149	3163	3170	rBV3	218510	350427	10.30%	1.137%
52	9.942	3181	3187	3191	rBV	149055	147681	4.34%	0.479%
53	9.965	3191	3195	3199	rVV2	119247	109028	3.20%	0.354%
54	9.991	3200	3204	3211	rVB2	76459	85415	2.51%	0.277%
55	10.050	3220	3225	3229	rVV2	95567	75694	2.22%	0.246%
56	10.076	3230	3234	3240	rVB2	84465	69390	2.04%	0.225%
57	10.363	3330	3335	3347	rVB	141115	172387	5.07%	0.559%
58	10.465	3365	3371	3378	rBV3	152771	167787	4.93%	0.545%
59	10.505	3379	3385	3391	rVB2	209706	232852	6.84%	0.756%
60	10.542	3394	3398	3405	rVV3	75365	91878	2.70%	0.298%

LSC Area Percent Report

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-05.d
 Acq On : 19 Jul 2023 7:06 am
 Operator : SV103:ek
 Sample : L2339907-05,32,,mg
 Misc : wgl1804789,WG1803858,ical20013
 ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 500 Area counts
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Title : Semivolatiles by GC/MS by modified 8270

61	10.579	3407	3411	3418	rVB	100106	94945	2.79%	0.308%
62	10.735	3453	3466	3472	rBV3	2626965	3402306	100.00%	11.042%
63	10.761	3472	3475	3485	rVB	865997	800636	23.53%	2.598%
64	10.837	3498	3502	3510	rVB2	179807	180025	5.29%	0.584%
65	11.207	3625	3632	3639	rBV2	145620	177248	5.21%	0.575%
66	12.008	3905	3914	3921	rBV2	662278	1041412	30.61%	3.380%
67	12.133	3953	3958	3968	rVB3	154908	192488	5.66%	0.625%
68	12.349	4026	4034	4047	rVV	384644	596228	17.52%	1.935%
69	12.414	4048	4057	4069	rVB	653984	944361	27.76%	3.065%
70	12.500	4075	4087	4105	rBV2	1702491	2913487	85.63%	9.455%
71	13.932	4583	4591	4602	rVB	331488	529861	15.57%	1.720%
72	14.270	4703	4710	4720	rVB	301154	442982	13.02%	1.438%

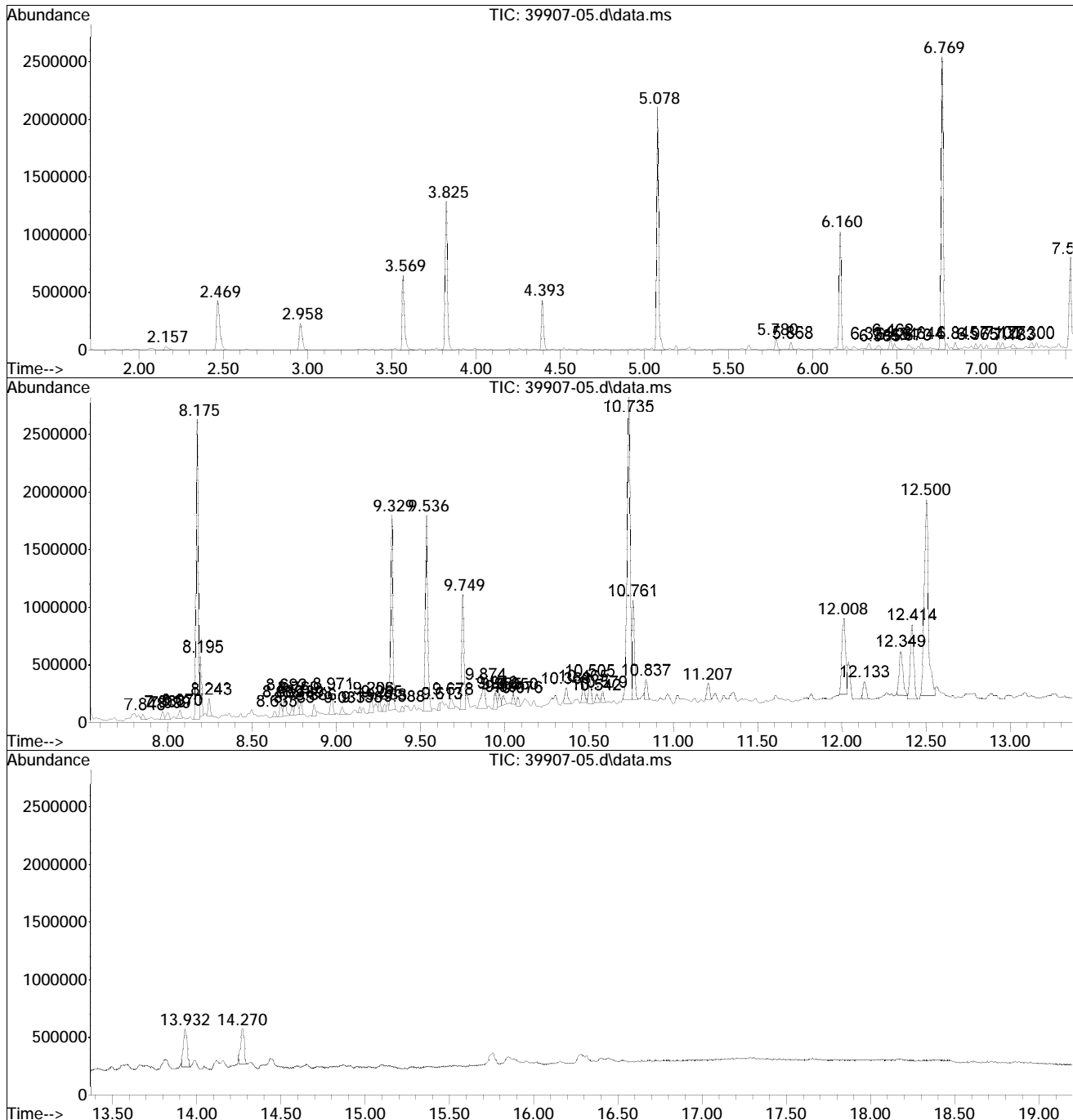
Sum of corrected areas: 30813004

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV103\230718n\
Data File : 39907-05.d
Acq On : 19 Jul 2023 7:06 am
Operator : SV103:ek
Sample : L2339907-05,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 24 Sample Multiplier: 1

Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-05.d
 Acq On : 19 Jul 2023 7:06 am
 Operator : SV103:ek
 Sample : L2339907-05,32,,mg
 Misc : wg1804789,WG1803858,ical20013
 ALS Vial : 24 Sample Multiplier: 1

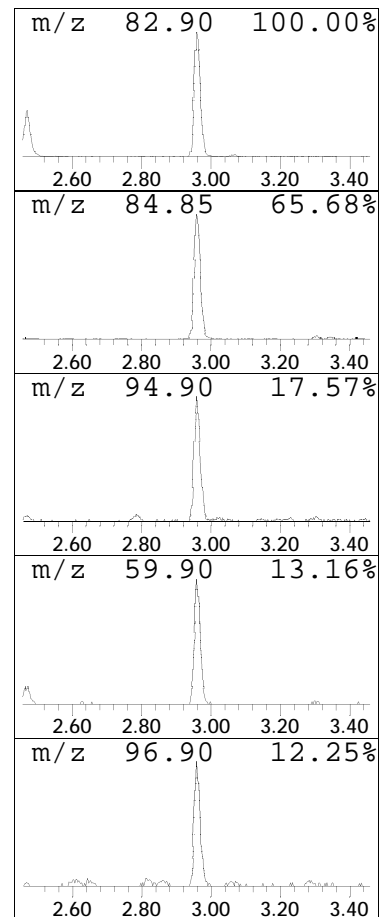
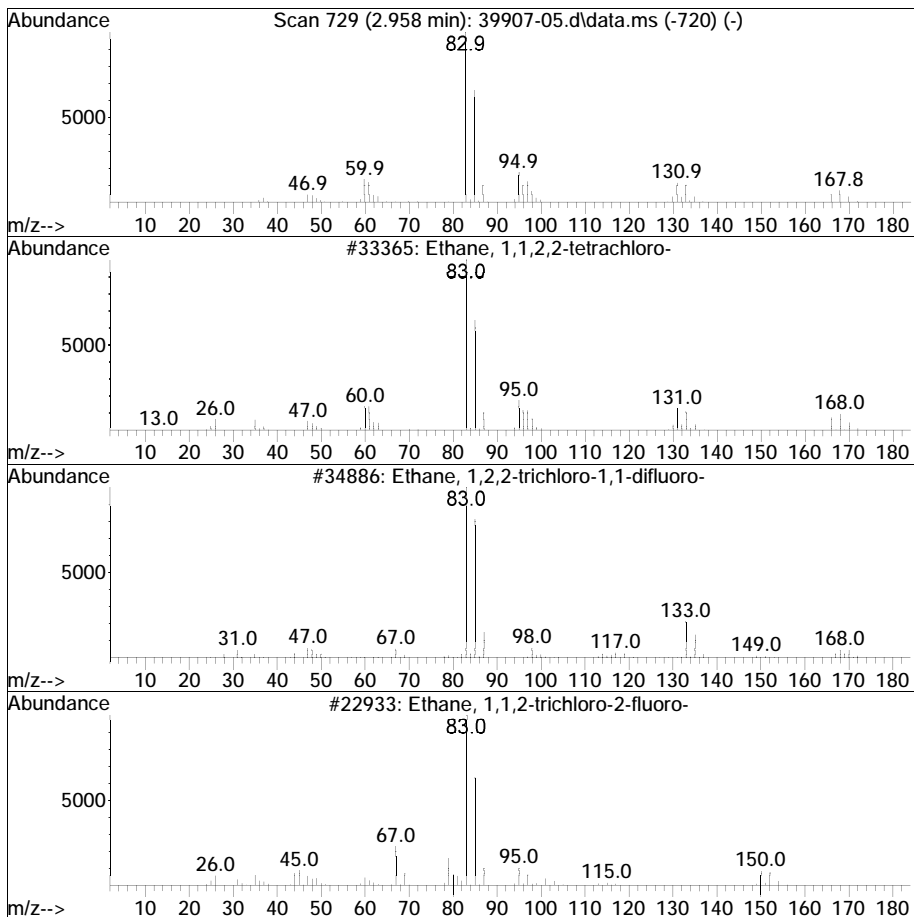
Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 1 Unknown Alkane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.958	8.99 ug/ml	274537	IS2_1,4-Dichlorobenzene-d4	3.825

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	97
2		Ethane, 1,2,2-trichloro-1,1-difl...	168	C2HCl3F2	000354-21-2	62
3		Ethane, 1,1,2-trichloro-2-fluoro-	150	C2H2Cl3F	000359-28-4	50
4		Ethane, 1,1-dichloro-2,2-difluoro-	134	C2H2Cl2F2	000471-43-2	45
5		Ethane, 2,2-dichloro-1,1,1-trifl...	152	C2HCl2F3	000306-83-2	42



Library Search Compound Report

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-05.d
 Acq On : 19 Jul 2023 7:06 am
 Operator : SV103:ek
 Sample : L2339907-05,32,,mg
 Misc : wg1804789,WG1803858,ical20013
 ALS Vial : 24 Sample Multiplier: 1

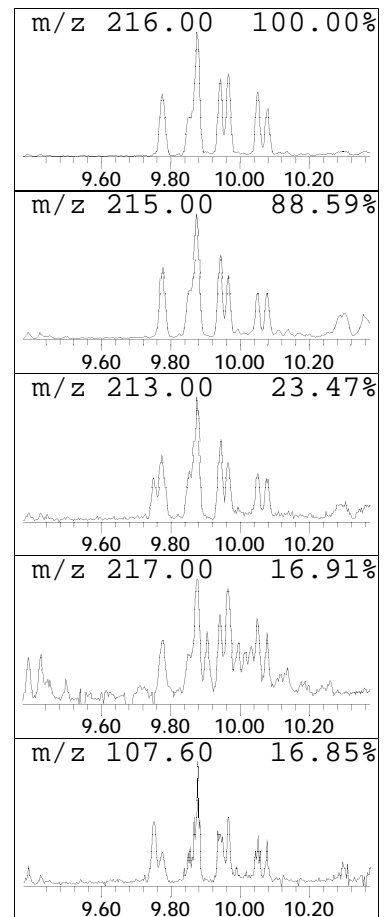
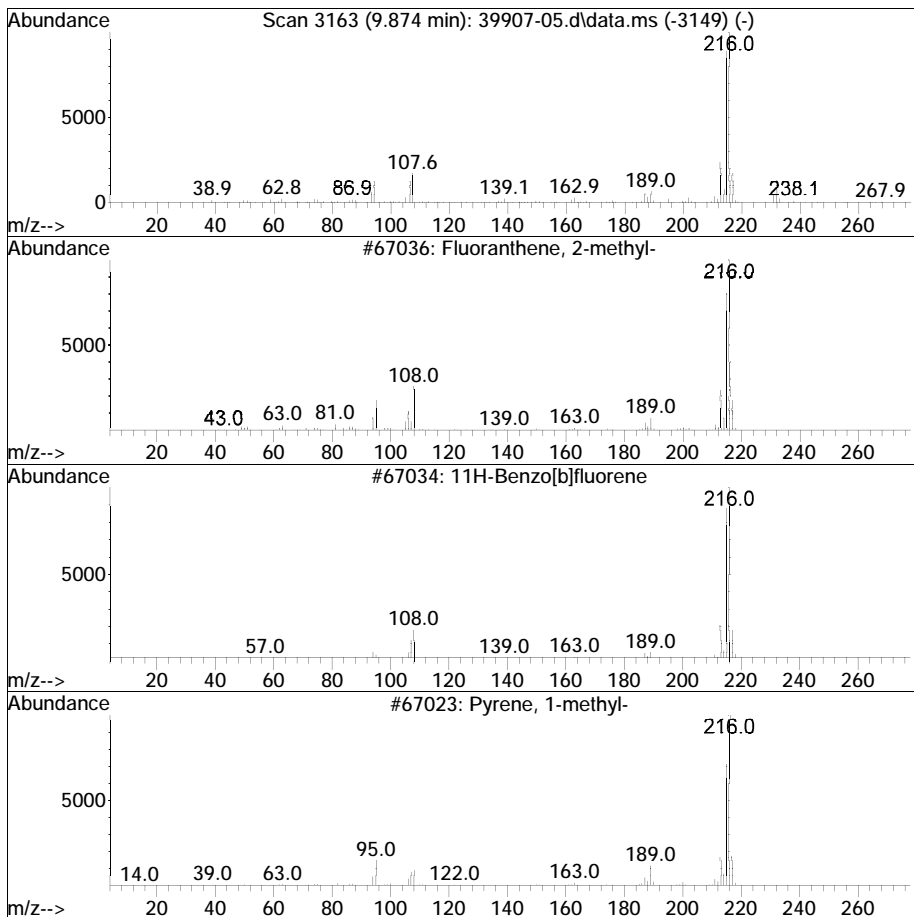
Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 2 Unknown PAH Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.874	4.12 ug/ml	350427	IS1_Chrysene-d12	10.738

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
2		11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
3		Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
4		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5		7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74



Library Search Compound Report

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-05.d
 Acq On : 19 Jul 2023 7:06 am
 Operator : SV103:ek
 Sample : L2339907-05,32,,mg
 Misc : wg1804789,WG1803858,ical20013
 ALS Vial : 24 Sample Multiplier: 1

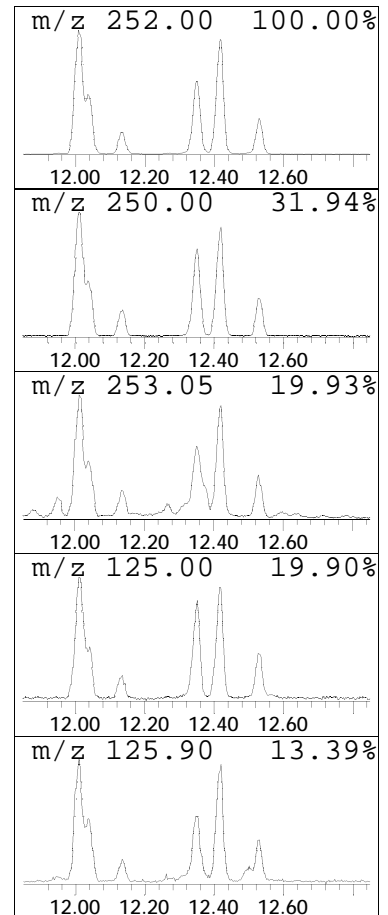
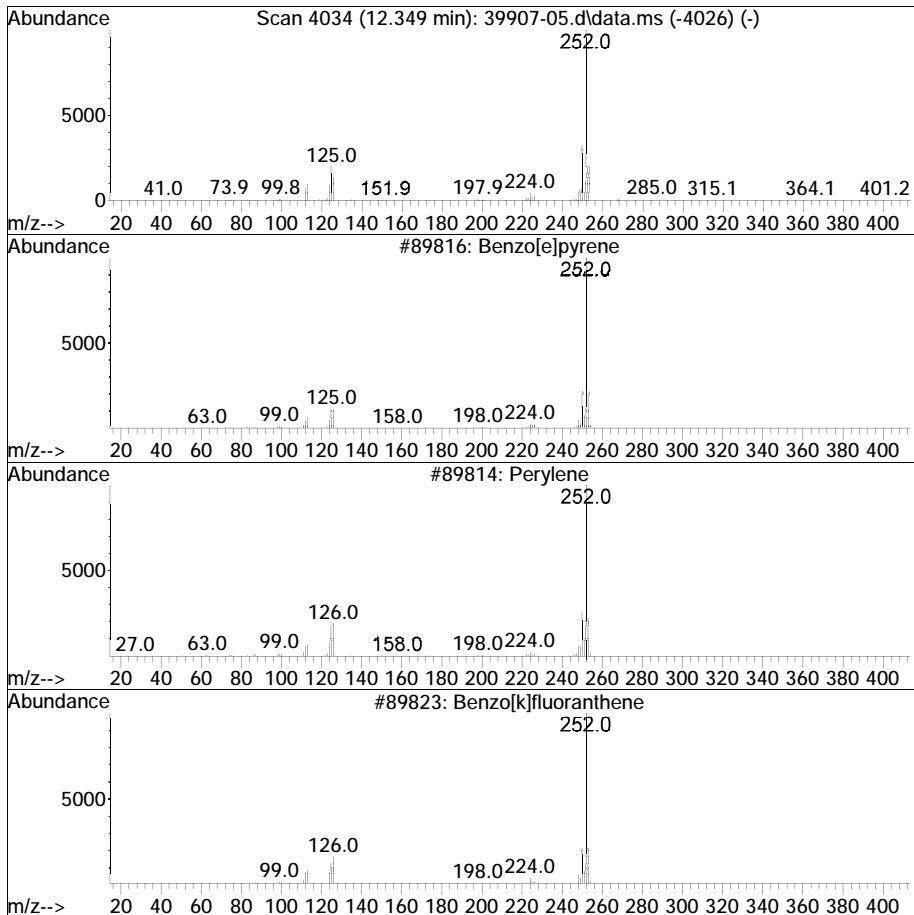
Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 3 Unknown PAH Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.349	8.19 ug/ml	596228	IS1_Perylene-d12	12.500

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2		Perylene	252	C20H12	000198-55-0	94
3		Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
4		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5		Benzo[a]pyrene	252	C20H12	000050-32-8	89



Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-05.d
 Acq On : 19 Jul 2023 7:06 am
 Operator : SV103:ek
 Sample : L2339907-05,32,,mg
 Misc : wg1804789,WG1803858,ical20013
 ALS Vial : 24 Sample Multiplier: 1

Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard---			
					#	RT	Resp	Conc
Unknown Alkane	2.958	9.0	ug/ml	274537	1	3.825	1221230	40.0
Unknown PAH	9.874	4.1	ug/ml	350427	12	10.738	3402310	40.0
Unknown PAH	12.349	8.2	ug/ml	596228	13	12.500	2913490	40.0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-06.d
 Acq On : 19 Jul 2023 7:29 am
 Operator : SV103:ek
 Sample : L2339907-06,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 25 17:58:25 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.822	152	194435	40.000	ug/ml	0.00
Standard Area 1 = 229645			Recovery =	84.67%		
27) IS2_1,4-Dichlorobenzen...	3.822	152	194435	40.000	ug/ml	0.00
Standard Area 3 = 170348			Recovery =	114.14%		
32) IS3_1,4-Dichlorobenzen...	3.822	152	194435	40.000	ug/ml	0.00
Standard Area 2 = 151650			Recovery =	128.21%		
35) IS1_Naphthalene-d8	5.078	136	764734	40.000	ug/ml	0.00
Standard Area 1 = 870434			Recovery =	87.86%		
55) IS2_Naphthalene-d8	5.078	136	764734	40.000	ug/ml	0.00
Standard Area 3 = 647727			Recovery =	118.06%		
63) IS1_Acenaphthene-d10	6.769	164	420301	40.000	ug/ml	0.00
Standard Area 1 = 468195			Recovery =	89.77%		
83) IS2_Acenaphthene-d10	6.769	164	420301	40.000	ug/ml	0.00
Standard Area 3 = 342963			Recovery =	122.55%		
86) IS3_Acenaphthene-d10	6.769	164	420301	40.000	ug/ml	0.00
Standard Area 2 = 314489			Recovery =	133.65%		
88) IS1_Phenanthrene-d10	8.172	188	848398	40.000	ug/ml	0.00
Standard Area 1 = 951685			Recovery =	89.15%		
100) IS3_Phenanthrene-d10	8.172	188	848398	40.000	ug/ml	0.00
Standard Area 2 = 639108			Recovery =	132.75%		
104) IS1_Chrysene-d12	10.735	240	756986	40.000	ug/ml	0.00
Standard Area 1 = 883111			Recovery =	85.72%		
113) IS1_Perylene-d12	12.497	264	866107	40.000	ug/ml	0.00
Standard Area 1 = 990767			Recovery =	87.42%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.464	112	195259	36.032	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	72.06%	
7) Phenol-d6	3.563	99	259009	38.334	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	76.67%	
19) Nitrobenzene-d5	4.393	82	123196	21.972	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	87.89%	
46) 2-Fluorobiphenyl	6.163	172	272398	18.944	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	75.78%	
79) 2,4,6-Tribromophenol	7.527	330	82273	36.787	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	73.57%	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-06.d
 Acq On : 19 Jul 2023 7:29 am
 Operator : SV103:ek
 Sample : L2339907-06,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 25 17:58:25 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	9.749	244	313162	15.866	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	63.46%
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0			N.D.
8) Phenol	0.000		0			N.D. d
9) Bis(2-chloroethyl)ether	0.000		0			N.D.
14) Bis(2-chloroisopropyl)...	0.000		0			N.D.
15) 2-Methylphenol	0.000		0			N.D.
16) Hexachloroethane	0.000		0			N.D.
17) n-Nitrosodi-n-propylamine	0.000		0			N.D.
18) 3-Methylphenol/4-Methy...	0.000		0			N.D.
20) Nitrobenzene	0.000		0			N.D.
21) Isophorone	0.000		0			N.D.
22) 2-Nitrophenol	0.000		0			N.D.
23) 2,4-Dimethylphenol	0.000		0			N.D.
24) Bis(2-chloroethoxy)met...	0.000		0			N.D.
25) 2,4-Dichlorophenol	0.000		0			N.D.
28) Benzaldehyde	0.000		0			N.D.
29) Acetophenone	0.000		0			N.D.
36) Naphthalene	0.000		0			N.D.
38) 4-Chloroaniline	0.000		0			N.D.
39) Hexachlorobutadiene	0.000		0			N.D.
40) p-Chloro-m-cresol	0.000		0			N.D.
41) 2-Methylnaphthalene	0.000		0			N.D.
43) Hexachlorocyclopentadiene	0.000		0			N.D.
44) 2,4,6-Trichlorophenol	0.000		0			N.D.
45) 2,4,5-Trichlorophenol	0.000		0			N.D.
47) 2-Chloronaphthalene	0.000		0			N.D.
48) 2-Nitroaniline	0.000		0			N.D.
51) Dimethyl phthalate	0.000		0			N.D.
52) Acenaphthylene	0.000		0			N.D.
53) 2,6-Dinitrotoluene	0.000		0			N.D.
60) Caprolactam	0.000		0			N.D.
61) 1,2,4,5-Tetrachloroben...	0.000		0			N.D.
62) Biphenyl	0.000		0			N.D.
64) 3-Nitroaniline	0.000		0			N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-06.d
 Acq On : 19 Jul 2023 7:29 am
 Operator : SV103:ek
 Sample : L2339907-06,32,,mg
 Misc : wgl1804789,WG1803858,ical20013
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 25 17:58:25 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Acenaphthene	0.000		0	N.D.	d	
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.		
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
73) Fluorene	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.	d	
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
81) Hexachlorobenzene	0.000		0	N.D.		
82) Pentachlorophenol	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
89) Phenanthrene	0.000		0	N.D.	d	
90) Anthracene	0.000		0	N.D.	d	
91) Carbazole	0.000		0	N.D.	d	
92) Di-n-butylphthalate	0.000		0	N.D.	d	
93) Fluoranthene	0.000		0	N.D.	d	
95) Pyrene	0.000		0	N.D.	d	
97) Butyl benzyl phthalate	0.000		0	N.D.		
105) Benzo(a)anthracene	0.000		0	N.D.	d	
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Chrysene	0.000		0	N.D.	d	
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	
110) Benzo(b)fluoranthene	0.000		0	N.D.	d	
111) Benzo(k)fluoranthene	0.000		0	N.D.	d	
112) Benzo(a)pyrene	0.000		0	N.D.	d	
114) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	d	
115) Dibenzo(a,h)anthracene	0.000		0	N.D.	d	
116) Benzo(ghi)perylene	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
Data File : 39907-06.d
Acq On : 19 Jul 2023 7:29 am
Operator : SV103:ek
Sample : L2339907-06,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 25 17:58:25 2023
Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 06:15:42 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
Sub List : 8270TCL_REV2 - TCL/CT/MA

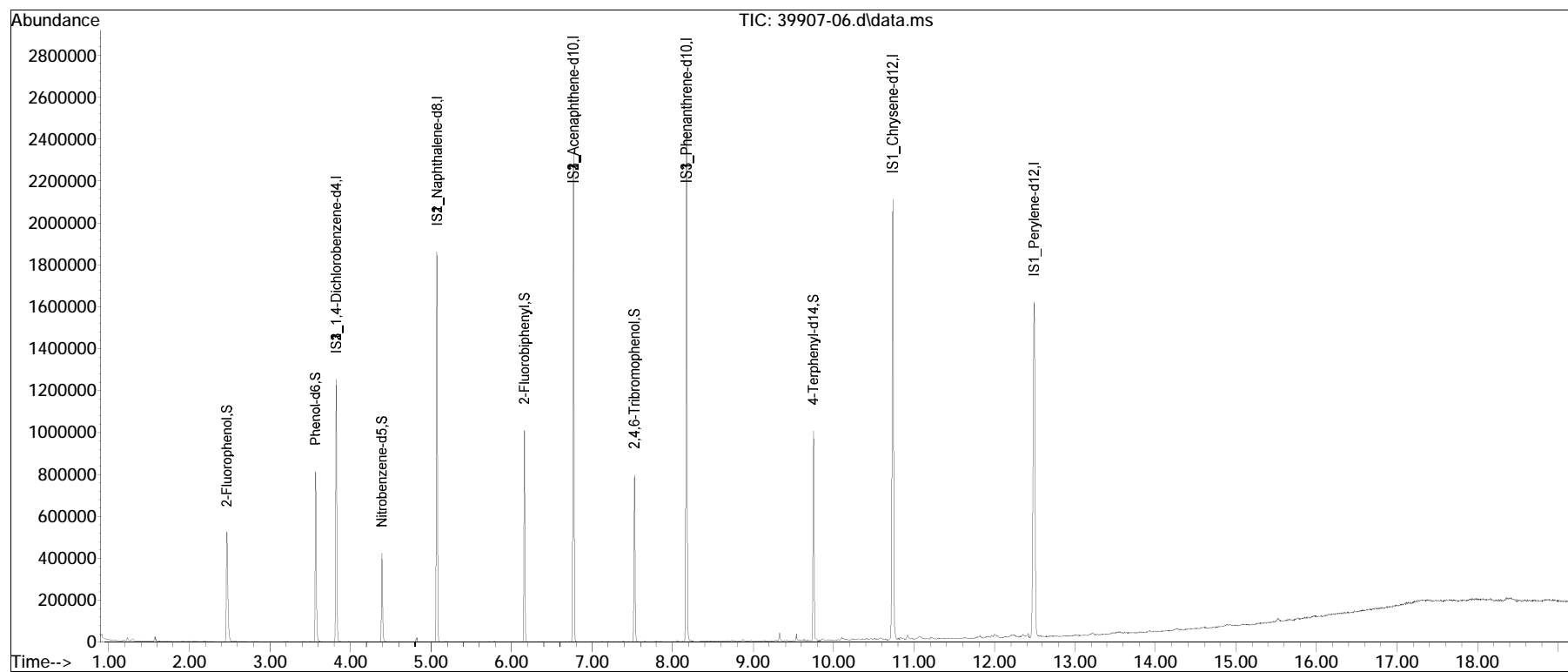
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
Data File : 39907-06.d
Acq On : 19 Jul 2023 7:29 am
Operator : SV103:ek
Sample : L2339907-06,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 25 17:58:25 2023
Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 06:15:42 2023
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAn\AP90718n.d•



Manual Integration Report

Data Path	: I:\8270\SV103\230718n\	QMethod	: FS230515nSV103.m
Data File	: 39907-06.d	Operator	: SV103:ek
Date Inj'd	: 7/19/2023 7:29 am	Instrument	: SV103
Sample	: L2339907-06,32,,mg	Quant Date	: 7/19/2023 7:49 am

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-06.d
 Acq On : 19 Jul 2023 7:29 am
 Operator : SV103:ek
 Sample : L2339907-06,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 500 Area counts
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 39907-06.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.461	547	554	576	rBV	525187	658170	26.43%	4.201%
2	3.563	935	942	966	rBV	813989	736985	29.60%	4.704%
3	3.822	1025	1033	1045	rBV	1253313	1107708	44.49%	7.071%
4	4.393	1227	1234	1248	rBV	423162	359093	14.42%	2.292%
5	5.078	1466	1475	1491	rBV	1863933	1530569	61.47%	9.770%
6	6.163	1849	1857	1869	rBV	1009799	804439	32.31%	5.135%
7	6.769	2061	2070	2084	rBV	2342410	1899608	76.29%	12.125%
8	7.527	2329	2337	2351	rBV	796826	680443	27.33%	4.343%
9	8.172	2556	2564	2577	rBV	2431884	2098136	84.27%	13.393%
10	9.329	2964	2971	2980	rBV2	35453	31845	1.28%	0.203%
11	9.533	3036	3043	3054	rBV2	31182	40710	1.64%	0.260%
12	9.749	3111	3119	3127	rBV	1000981	910736	36.58%	5.813%
13	10.735	3450	3466	3482	rBV2	2102201	2291655	92.04%	14.628%
14	10.917	3523	3530	3542	rBV2	19659	26425	1.06%	0.169%
15	12.497	4071	4086	4100	rBV2	1598195	2489873	100.00%	15.893%

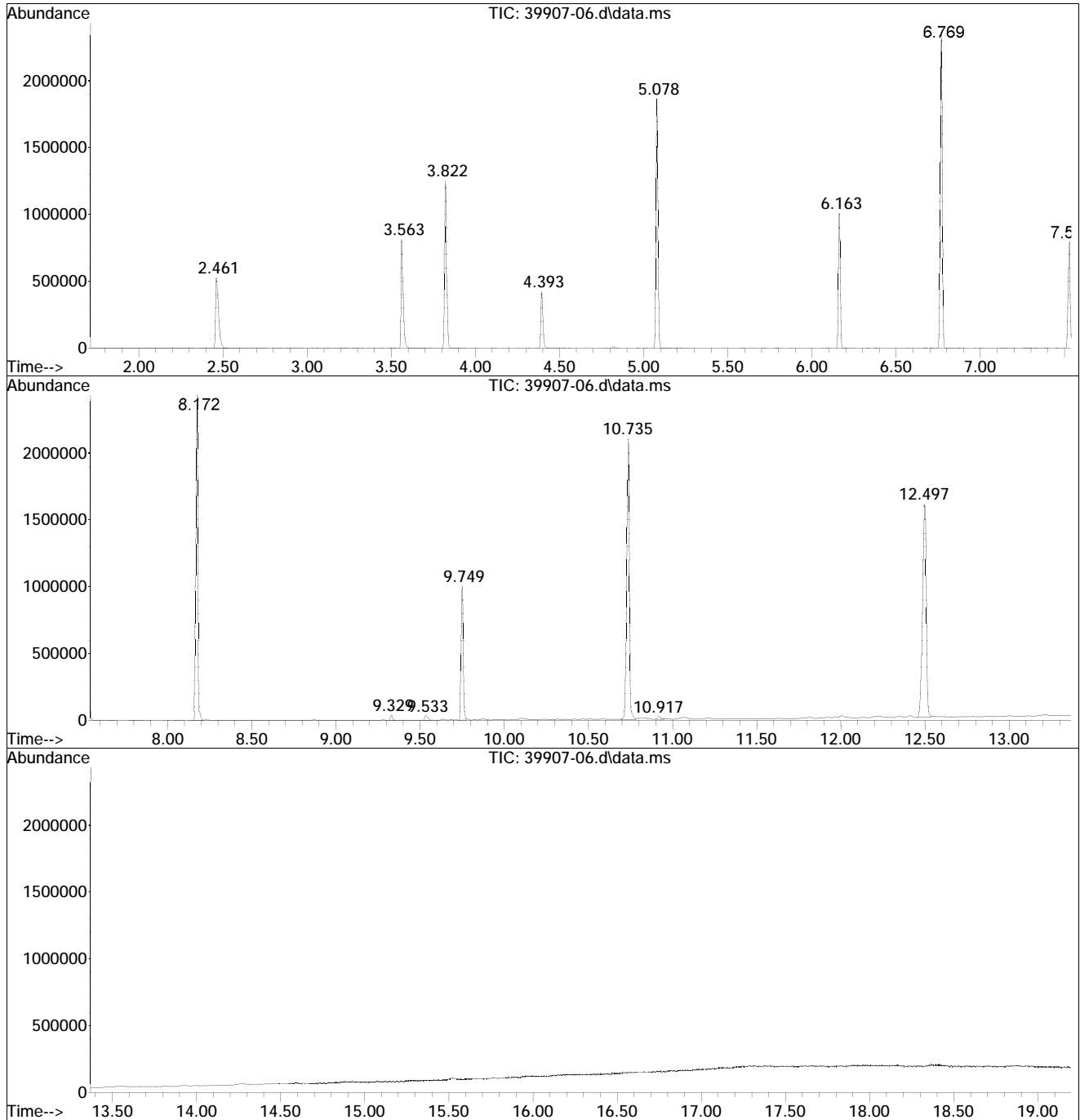
Sum of corrected areas: 15666395

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV103\230718\
Data File : 39907-06.d
Acq On : 19 Jul 2023 7:29 am
Operator : SV103:ek
Sample : L2339907-06,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 25 Sample Multiplier: 1

Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\8270\SV103\230718n\
Data File : 39907-06.d
Acq On : 19 Jul 2023 7:29 am
Operator : SV103:ek
Sample : L2339907-06,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 25 Sample Multiplier: 1

Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV103\230718n\
Data File : 39907-06.d
Acq On : 19 Jul 2023 7:29 am
Operator : SV103:ek
Sample : L2339907-06,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 25 Sample Multiplier: 1

Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-07.d
 Acq On : 19 Jul 2023 7:53 am
 Operator : SV103:ek
 Sample : L2339907-07,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 25 17:58:38 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.825	152	209335	40.000	ug/ml	0.00
Standard Area 1 = 229645			Recovery =	91.16%		
27) IS2_1,4-Dichlorobenzen...	3.825	152	209335	40.000	ug/ml	0.00
Standard Area 3 = 170348			Recovery =	122.89%		
32) IS3_1,4-Dichlorobenzen...	3.825	152	209335	40.000	ug/ml	0.00
Standard Area 2 = 151650			Recovery =	138.04%		
35) IS1_Naphthalene-d8	5.078	136	832800	40.000	ug/ml	0.00
Standard Area 1 = 870434			Recovery =	95.68%		
55) IS2_Naphthalene-d8	5.078	136	832800	40.000	ug/ml	0.00
Standard Area 3 = 647727			Recovery =	128.57%		
63) IS1_Acenaphthene-d10	6.769	164	454678	40.000	ug/ml	0.00
Standard Area 1 = 468195			Recovery =	97.11%		
83) IS2_Acenaphthene-d10	6.769	164	454678	40.000	ug/ml	0.00
Standard Area 3 = 342963			Recovery =	132.57%		
86) IS3_Acenaphthene-d10	6.769	164	454678	40.000	ug/ml	0.00
Standard Area 2 = 314489			Recovery =	144.58%		
88) IS1_Phenanthrene-d10	8.175	188	908623	40.000	ug/ml	0.00
Standard Area 1 = 951685			Recovery =	95.48%		
100) IS3_Phenanthrene-d10	8.175	188	908623	40.000	ug/ml	0.00
Standard Area 2 = 639108			Recovery =	142.17%		
104) IS1_Chrysene-d12	10.735	240	805431	40.000	ug/ml	0.00
Standard Area 1 = 883111			Recovery =	91.20%		
113) IS1_Perylene-d12	12.497	264	924942	40.000	ug/ml	0.00
Standard Area 1 = 990767			Recovery =	93.36%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.467	112	210239	36.035	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	72.07%	
7) Phenol-d6	3.564	99	270835	37.231	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	74.46%	
19) Nitrobenzene-d5	4.393	82	130336	21.591	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	86.36%	
46) 2-Fluorobiphenyl	6.161	172	277068	17.694	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	70.78%	
79) 2,4,6-Tribromophenol	7.527	330	88149	36.435	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	72.87%	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-07.d
 Acq On : 19 Jul 2023 7:53 am
 Operator : SV103:ek
 Sample : L2339907-07,32,,mg
 Misc : wgl1804789,WG1803858,ical20013
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 25 17:58:38 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	9.749	244	327165	15.477	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	61.91%
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0		N.D.	
8) Phenol	0.000		0		N.D.	d
9) Bis(2-chloroethyl)ether	0.000		0		N.D.	
14) Bis(2-chloroisopropyl)...	0.000		0		N.D.	
15) 2-Methylphenol	0.000		0		N.D.	
16) Hexachloroethane	0.000		0		N.D.	
17) n-Nitrosodi-n-propylamine	0.000		0		N.D.	
18) 3-Methylphenol/4-Methy...	0.000		0		N.D.	
20) Nitrobenzene	0.000		0		N.D.	d
21) Isophorone	0.000		0		N.D.	
22) 2-Nitrophenol	0.000		0		N.D.	
23) 2,4-Dimethylphenol	0.000		0		N.D.	
24) Bis(2-chloroethoxy)met...	0.000		0		N.D.	
25) 2,4-Dichlorophenol	0.000		0		N.D.	
28) Benzaldehyde	0.000		0		N.D.	
29) Acetophenone	0.000		0		N.D.	
36) Naphthalene	0.000		0		N.D.	d
38) 4-Chloroaniline	0.000		0		N.D.	
39) Hexachlorobutadiene	0.000		0		N.D.	
40) p-Chloro-m-cresol	0.000		0		N.D.	
41) 2-Methylnaphthalene	0.000		0		N.D.	
43) Hexachlorocyclopentadiene	0.000		0		N.D.	
44) 2,4,6-Trichlorophenol	0.000		0		N.D.	
45) 2,4,5-Trichlorophenol	0.000		0		N.D.	
47) 2-Chloronaphthalene	0.000		0		N.D.	
48) 2-Nitroaniline	0.000		0		N.D.	
51) Dimethyl phthalate	0.000		0		N.D.	
52) Acenaphthylene	0.000		0		N.D.	d
53) 2,6-Dinitrotoluene	0.000		0		N.D.	
60) Caprolactam	0.000		0		N.D.	
61) 1,2,4,5-Tetrachloroben...	0.000		0		N.D.	
62) Biphenyl	0.000		0		N.D.	
64) 3-Nitroaniline	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-07.d
 Acq On : 19 Jul 2023 7:53 am
 Operator : SV103:ek
 Sample : L2339907-07,32,,mg
 Misc : wgl1804789,WG1803858,ical20013
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 25 17:58:38 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Acenaphthene	0.000		0	N.D.	d	
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.		
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
73) Fluorene	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.	d	
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
81) Hexachlorobenzene	0.000		0	N.D.		
82) Pentachlorophenol	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
89) Phenanthrene	0.000		0	N.D.	d	
90) Anthracene	0.000		0	N.D.	d	
91) Carbazole	0.000		0	N.D.	d	
92) Di-n-butylphthalate	0.000		0	N.D.		
93) Fluoranthene	0.000		0	N.D.	d	
95) Pyrene	0.000		0	N.D.	d	
97) Butyl benzyl phthalate	0.000		0	N.D.		
105) Benzo(a)anthracene	0.000		0	N.D.	d	
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Chrysene	0.000		0	N.D.	d	
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	
110) Benzo(b)fluoranthene	0.000		0	N.D.	d	
111) Benzo(k)fluoranthene	0.000		0	N.D.	d	
112) Benzo(a)pyrene	0.000		0	N.D.	d	
114) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	d	
115) Dibenzo(a,h)anthracene	0.000		0	N.D.	d	
116) Benzo(ghi)perylene	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
Data File : 39907-07.d
Acq On : 19 Jul 2023 7:53 am
Operator : SV103:ek
Sample : L2339907-07,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 25 17:58:38 2023
Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 06:15:42 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
Sub List : 8270TCL_REV2 - TCL/CT/MA

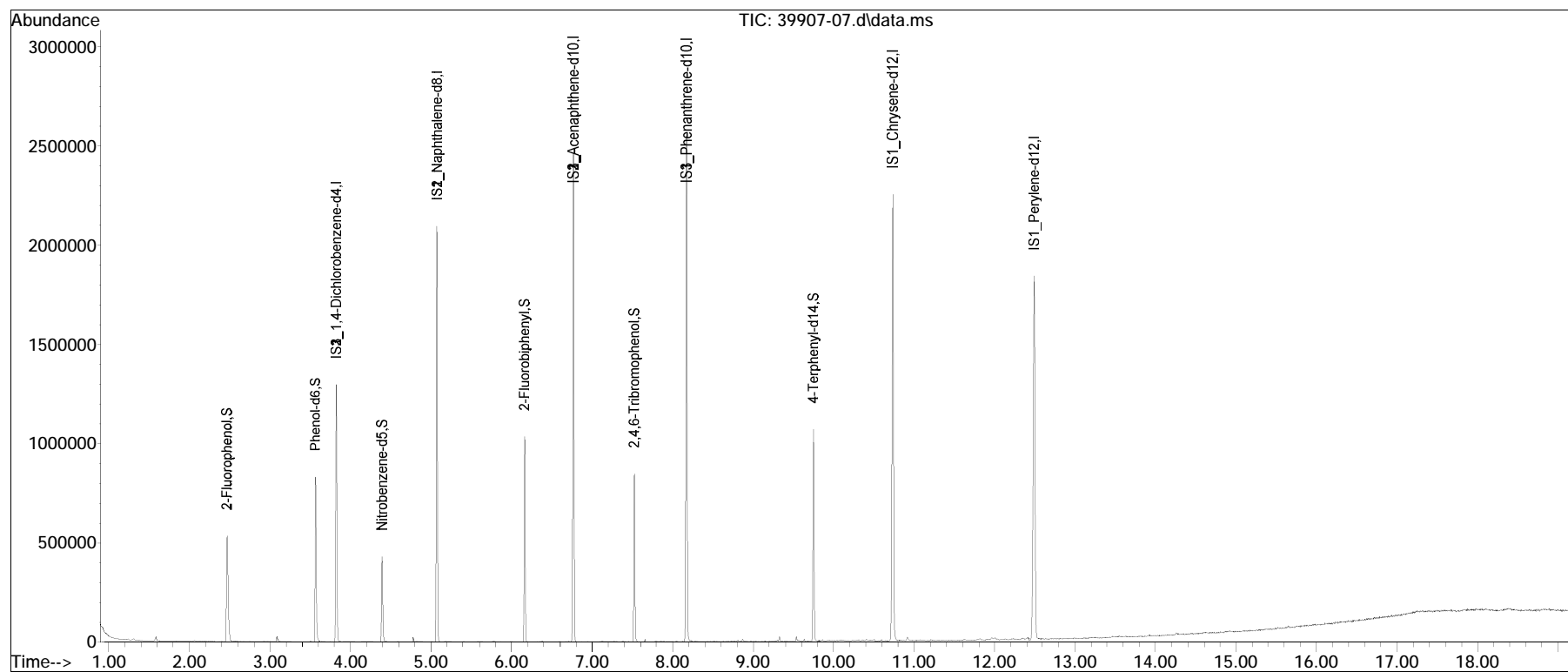
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-07.d
 Acq On : 19 Jul 2023 7:53 am
 Operator : SV103:ek
 Sample : L2339907-07,32,,mg
 Misc : wg1804789,WG1803858,ical20013
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 25 17:58:38 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAn\AP90718n.d•



Manual Integration Report

Data Path	: I:\8270\SV103\230718n\	QMethod	: FS230515nSV103.m
Data File	: 39907-07.d	Operator	: SV103:ek
Date Inj'd	: 7/19/2023 7:53 am	Instrument	: SV103
Sample	: L2339907-07,32,,mg	Quant Date	: 7/19/2023 8:13 am

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\8270\SV103\230718n\
 Data File : 39907-07.d
 Acq On : 19 Jul 2023 7:53 am
 Operator : SV103:ek
 Sample : L2339907-07,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 26 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 500 Area counts
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 39907-07.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.467	548	556	578	rBV	533157	703126	26.29%	4.232%
2	3.080	767	772	787	rBV3	26530	33156	1.24%	0.200%
3	3.564	936	942	957	rBV	830590	753244	28.16%	4.533%
4	3.825	1024	1034	1047	rBV	1296924	1192591	44.59%	7.178%
5	4.393	1228	1234	1245	rBV	429343	372182	13.91%	2.240%
6	5.078	1467	1475	1489	rBV	2094833	1657091	61.95%	9.973%
7	6.161	1849	1856	1867	rVB	1033760	820984	30.69%	4.941%
8	6.769	2061	2070	2080	rBV	2491591	2044715	76.45%	12.306%
9	7.527	2328	2337	2353	rBV	847520	729898	27.29%	4.393%
10	8.175	2555	2565	2578	rBV	2569635	2242897	83.86%	13.499%
11	9.531	3035	3042	3049	rBV2	24437	27530	1.03%	0.166%
12	9.749	3110	3119	3135	rBV	1070625	951674	35.58%	5.728%
13	10.735	3451	3466	3481	rBV2	2251461	2411596	90.16%	14.514%
14	12.497	4069	4086	4105	rBV	1835206	2674701	100.00%	16.098%

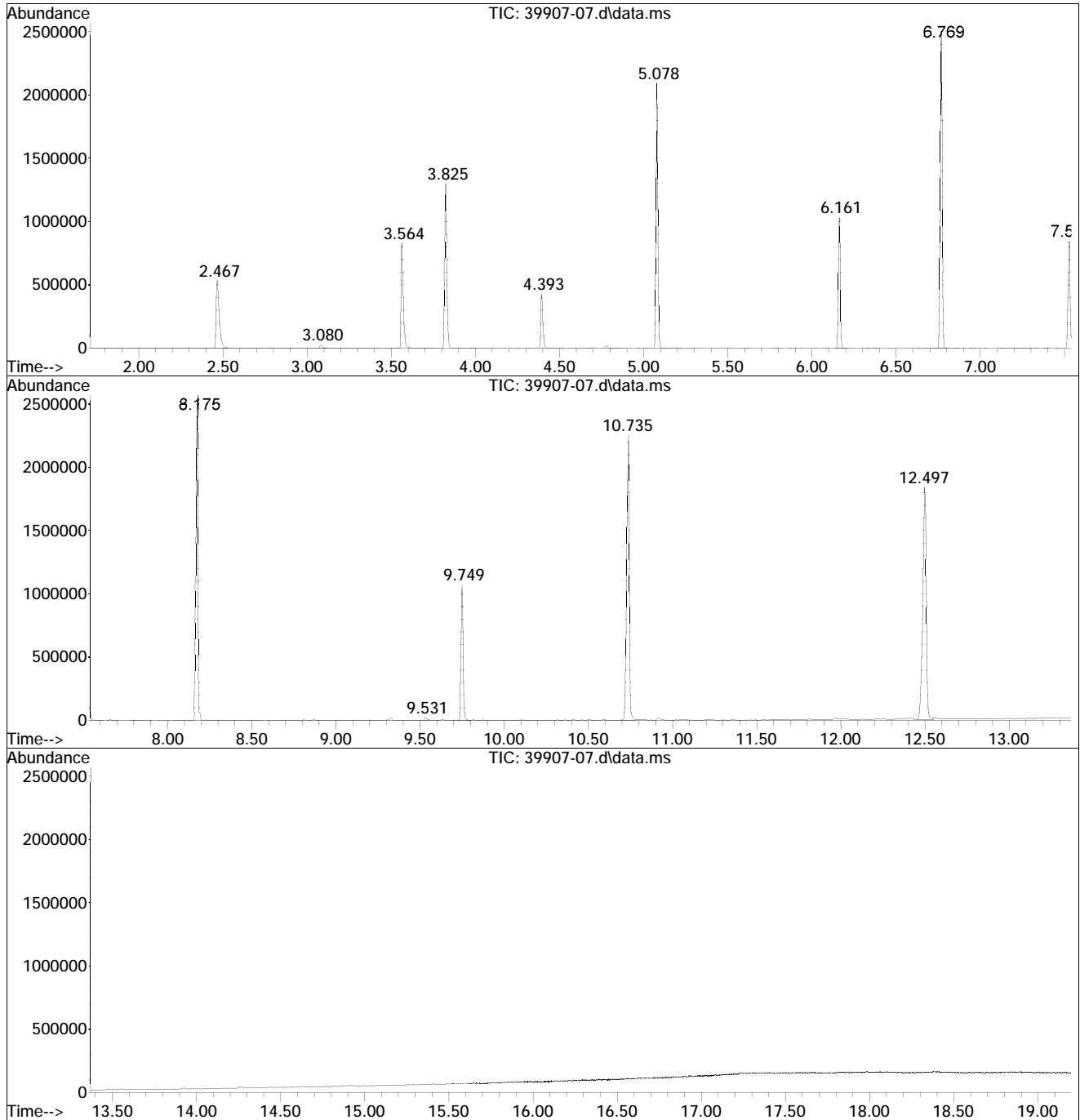
Sum of corrected areas: 16615385

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV103\230718\
Data File : 39907-07.d
Acq On : 19 Jul 2023 7:53 am
Operator : SV103:ek
Sample : L2339907-07,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 26 Sample Multiplier: 1

Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\8270\SV103\230718n\
Data File : 39907-07.d
Acq On : 19 Jul 2023 7:53 am
Operator : SV103:ek
Sample : L2339907-07,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 26 Sample Multiplier: 1

Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV103\230718n\
Data File : 39907-07.d
Acq On : 19 Jul 2023 7:53 am
Operator : SV103:ek
Sample : L2339907-07,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 26 Sample Multiplier: 1

Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
 Data File : 39907-04.D
 Acq On : 20 Jul 2023 10:42 pm
 Operator : SV124:ljpg
 Sample : L2339907-04,32,,mg
 Misc : wgl805740,WG1804755,ical20053
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 26 14:20:34 2023
 Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jul 24 15:03:22 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230720na\ABN0720na.D
 : 2 - I:\8270\sv124\230720na\ADP0720na.D
 : 3 - I:\8270\sv124\230720na\AP90720na.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.358	152	159612	40.000	ug/ml	0.00
Standard Area 1 = 138416			Recovery = 115.31%			
27) IS2_1,4-Dichlorobenzen...	3.358	152	159612	40.000	ug/ml	0.00
Standard Area 3 = 191385			Recovery = 83.40%			
32) IS3_1,4-Dichlorobenzen...	3.358	152	159612	40.000	ug/ml	0.00
Standard Area 2 = 137483			Recovery = 116.10%			
35) IS1_Naphthalene-d8	4.138	136	679893	40.000	ug/ml	0.00
Standard Area 1 = 577409			Recovery = 117.75%			
55) IS2_Naphthalene-d8	4.138	136	679893	40.000	ug/ml	0.00
Standard Area 3 = 808729			Recovery = 84.07%			
63) IS1_Acenaphthene-d10	5.261	164	390496	40.000	ug/ml	0.00
Standard Area 1 = 323195			Recovery = 120.82%			
83) IS2_Acenaphthene-d10	5.261	164	390496	40.000	ug/ml	0.00
Standard Area 3 = 439260			Recovery = 88.90%			
86) IS3_Acenaphthene-d10	5.261	164	390496	40.000	ug/ml	0.00
Standard Area 2 = 320571			Recovery = 121.81%			
88) IS1_Phenanthrene-d10	6.224	188	816495	40.000	ug/ml	0.00
Standard Area 1 = 662978			Recovery = 123.16%			
100) IS3_Phenanthrene-d10	6.224	188	816495	40.000	ug/ml	0.00
Standard Area 2 = 672734			Recovery = 121.37%			
104) IS1_Chrysene-d12	8.098	240	688167	40.000	ug/ml	0.00
Standard Area 1 = 613530			Recovery = 112.17%			
113) IS1_Perylene-d12	9.192	264	758518	40.000	ug/ml	0.00
Standard Area 1 = 720061			Recovery = 105.34%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.625	112	146605	34.286	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110			
			Recovery = 68.57%			
7) Phenol-d6	3.144	99	179655	32.165	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110			
			Recovery = 64.33%			
19) Nitrobenzene-d5	3.694	82	117820	21.611	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130			
			Recovery = 86.44%			
46) 2-Fluorobiphenyl	4.825	172	278909	21.382	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130			
			Recovery = 85.53%			
79) 2,4,6-Tribromophenol	5.773	330	87391	37.071	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110			
			Recovery = 74.14%			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
 Data File : 39907-04.D
 Acq On : 20 Jul 2023 10:42 pm
 Operator : SV124:ljpg
 Sample : L2339907-04,32,,mg
 Misc : wgl1805740,WG1804755,ical20053
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 26 14:20:34 2023
 Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jul 24 15:03:22 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230720na\ABN0720na.D
 : 2 - I:\8270\sv124\230720na\ADP0720na.D
 : 3 - I:\8270\sv124\230720na\AP90720na.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	7.306	244	350582	17.773	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	71.09%
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0			N.D.
8) Phenol	0.000		0			N.D.
9) Bis(2-chloroethyl)ether	0.000		0			N.D. d
14) Bis(2-chloroisopropyl)...	0.000		0			N.D.
15) 2-Methylphenol	0.000		0			N.D. d
16) Hexachloroethane	0.000		0			N.D.
17) n-Nitrosodi-n-propylamine	0.000		0			N.D. d
18) 3-Methylphenol/4-Methy...	0.000		0			N.D. d
20) Nitrobenzene	0.000		0			N.D. d
21) Isophorone	0.000		0			N.D.
22) 2-Nitrophenol	0.000		0			N.D.
23) 2,4-Dimethylphenol	0.000		0			N.D. d
24) Bis(2-chloroethoxy)met...	0.000		0			N.D.
25) 2,4-Dichlorophenol	0.000		0			N.D.
28) Benzaldehyde	0.000		0			N.D.
29) Acetophenone	0.000		0			N.D.
36) Naphthalene	0.000		0			N.D. d
38) 4-Chloroaniline	0.000		0			N.D. d
39) Hexachlorobutadiene	0.000		0			N.D.
40) p-Chloro-m-cresol	0.000		0			N.D.
41) 2-Methylnaphthalene	0.000		0			N.D. d
43) Hexachlorocyclopentadiene	0.000		0			N.D.
44) 2,4,6-Trichlorophenol	0.000		0			N.D.
45) 2,4,5-Trichlorophenol	0.000		0			N.D.
47) 2-Chloronaphthalene	0.000		0			N.D.
48) 2-Nitroaniline	0.000		0			N.D.
51) Dimethyl phthalate	0.000		0			N.D.
52) Acenaphthylene	0.000		0			N.D. d
53) 2,6-Dinitrotoluene	0.000		0			N.D.
60) Caprolactam	0.000		0			N.D. d
61) 1,2,4,5-Tetrachloroben...	0.000		0			N.D.
62) Biphenyl	0.000		0			N.D.
64) 3-Nitroaniline	0.000		0			N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
 Data File : 39907-04.D
 Acq On : 20 Jul 2023 10:42 pm
 Operator : SV124:ljpg
 Sample : L2339907-04,32,,mg
 Misc : wgl805740,WG1804755,ical20053
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 26 14:20:34 2023
 Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jul 24 15:03:22 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230720na\ABN0720na.D
 : 2 - I:\8270\sv124\230720na\ADP0720na.D
 : 3 - I:\8270\sv124\230720na\AP90720na.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Acenaphthene	0.000		0	N.D.	d	
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.	d	
68) 2,4-Dinitrotoluene	0.000		0	N.D.		
69) 4-Nitrophenol	0.000		0	N.D.	d	
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
73) Fluorene	0.000		0	N.D.	d	
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.	d	
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
81) Hexachlorobenzene	0.000		0	N.D.		
82) Pentachlorophenol	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
89) Phenanthrene	0.000		0	N.D.	d	
90) Anthracene	0.000		0	N.D.	d	
91) Carbazole	0.000		0	N.D.	d	
92) Di-n-butylphthalate	0.000		0	N.D.	d	
93) Fluoranthene	7.038	202	8357	0.335	ug/ml#	85
95) Pyrene	7.197	202	8093	0.311	ug/ml#	90
97) Butyl benzyl phthalate	0.000		0	N.D.	d	
105) Benzo(a)anthracene	0.000		0	N.D.	d	
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Chrysene	0.000		0	N.D.	d	
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	
110) Benzo(b)fluoranthene	0.000		0	N.D.	d	
111) Benzo(k)fluoranthene	0.000		0	N.D.	d	
112) Benzo(a)pyrene	0.000		0	N.D.	d	
114) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	d	
115) Dibenzo(a,h)anthracene	0.000		0	N.D.	d	
116) Benzo(ghi)perylene	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
Data File : 39907-04.D
Acq On : 20 Jul 2023 10:42 pm
Operator : SV124:ljpg
Sample : L2339907-04,32,,mg
Misc : wg1805740,WG1804755,ical20053
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 26 14:20:34 2023
Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 24 15:03:22 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230720na\ABN0720na.D
 : 2 - I:\8270\sv124\230720na\ADP0720na.D
 : 3 - I:\8270\sv124\230720na\AP90720na.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

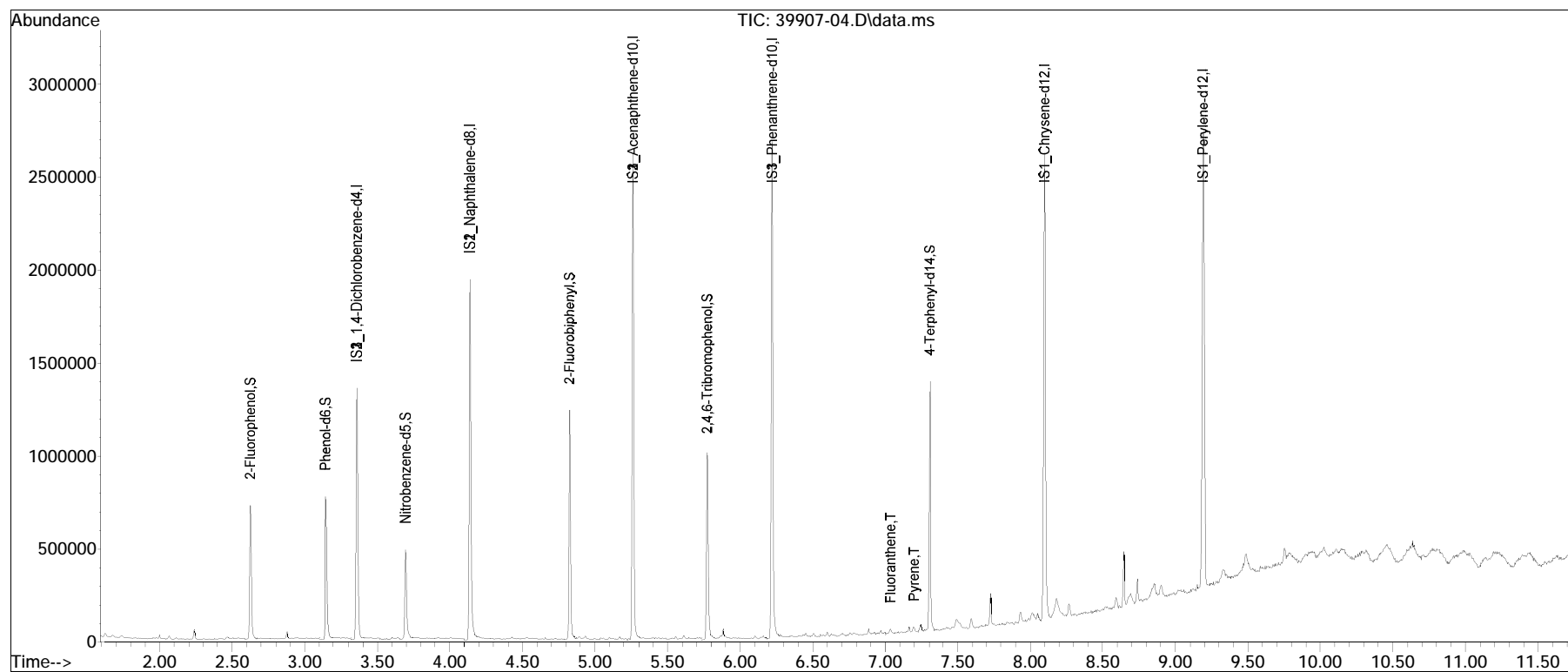
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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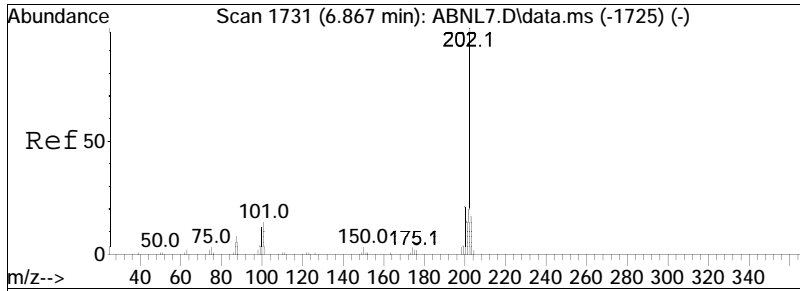
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
Data File : 39907-04.D
Acq On : 20 Jul 2023 10:42 pm
Operator : SV124:ljj
Sample : L2339907-04,32,,mg
Misc : wg1805740,WG1804755,ical20053
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 26 14:20:34 2023
Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 24 15:03:22 2023
Response via : Initial Calibration

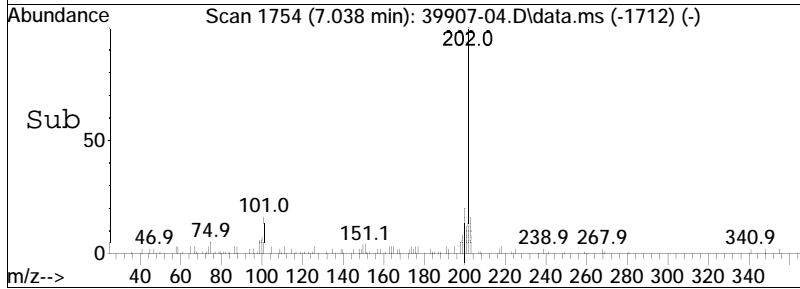
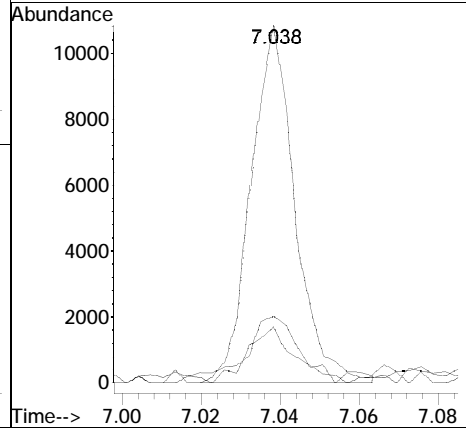
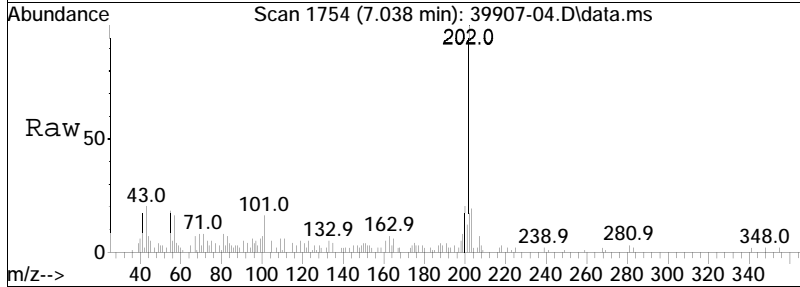
Sub List : 8270TCL_REV2 - TCL/CT/MAna\AP90720na.D•

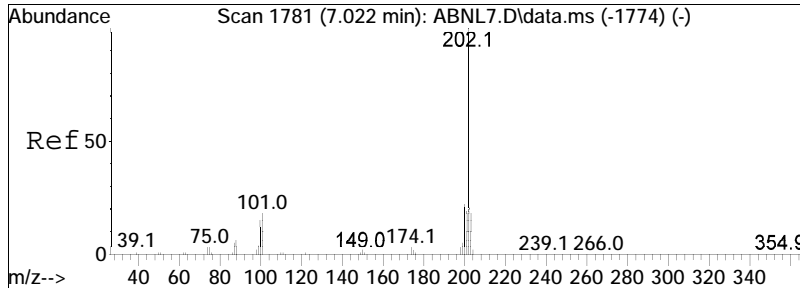




#93
 Fluoranthene
 Concen: 0.34 ug/ml
 RT: 7.038 min Scan# 1754
 Delta R.T. 0.006 min
 Lab File: 39907-04.D
 Acq: 20 Jul 2023 10:42 pm

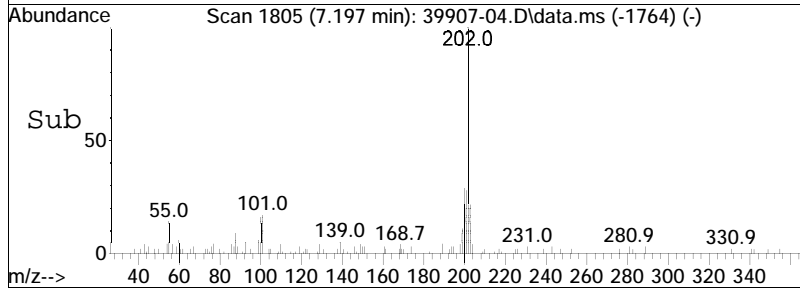
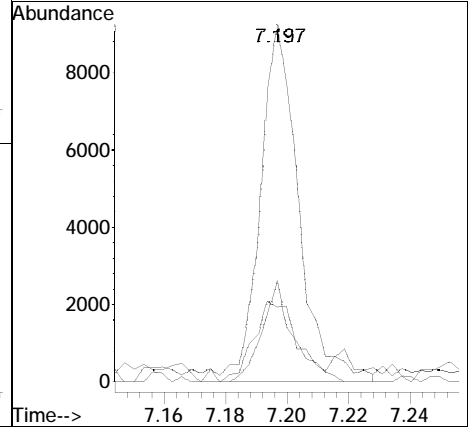
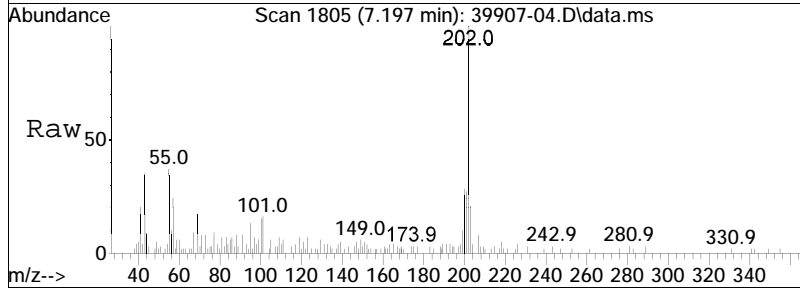
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	8357		
101	17.8		11.4	17.0#
203	26.2		13.9	20.9#





#95
 Pyrene
 Concen: 0.31 ug/ml
 RT: 7.197 min Scan# 1805
 Delta R.T. 0.003 min
 Lab File: 39907-04.D
 Acq: 20 Jul 2023 10:42 pm

Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.0	17.0	25.4
203	25.5	14.2	21.2#



Manual Integration Report

Data Path	: I:\8270\SV124\230720na\	QMethod	: FS230526SV124.m
Data File	: 39907-04.D	Operator	: SV124:ljpg
Date Inj'd	: 7/20/2023 10:42 pm	Instrument	: SV124
Sample	: L2339907-04,32,,mg	Quant Date	: 7/26/2023 2:18 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\8270\SV124\230720na\
 Data File : 39907-04.D
 Acq On : 20 Jul 2023 10:42 pm
 Operator : SV124:ljpg
 Sample : L2339907-04,32,,mg
 Misc : wgl805740,WG1804755,ical20053
 ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 500 Area counts
 Start Thrs: 0.001 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : I:\8270\sv124\230720na\FS230526SV124.m
 Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 39907-04.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.236	204	209	218	rVB2	49987	44724	2.04%	0.287%
2	2.625	329	334	347	rBV	715528	552498	25.26%	3.541%
3	2.873	407	414	420	rVB	37495	32353	1.48%	0.207%
4	3.144	496	501	516	rBV	765473	565076	25.84%	3.622%
5	3.358	565	570	583	rBV	1350036	993827	45.44%	6.370%
6	3.694	671	678	691	rBV	478605	374436	17.12%	2.400%
7	4.138	815	821	836	rBV	1937245	1420070	64.93%	9.102%
8	4.825	1034	1042	1053	rBV	1232462	842211	38.51%	5.398%
9	5.261	1176	1182	1195	rBV	2612347	1838733	84.07%	11.785%
10	5.770	1341	1346	1363	rBV	1001409	756563	34.59%	4.849%
11	6.224	1485	1492	1506	rBV	2671689	2042099	93.37%	13.089%
12	7.194	1801	1804	1814	rVB2	28237	25997	1.19%	0.167%
13	7.243	1814	1820	1826	rBV3	42904	44734	2.05%	0.287%
14	7.306	1834	1840	1851	rVB	1335551	1007630	46.07%	6.458%
15	7.495	1896	1901	1907	rBV5	33578	45986	2.10%	0.295%
16	7.592	1927	1932	1941	rVB2	50305	47295	2.16%	0.303%
17	7.728	1970	1976	1983	rBV	167713	137503	6.29%	0.881%
18	7.933	2038	2042	2047	rBV	54245	49883	2.28%	0.320%
19	8.014	2063	2068	2076	rBV4	37646	51365	2.35%	0.329%
20	8.048	2076	2079	2088	rVB4	38581	40300	1.84%	0.258%
21	8.098	2088	2095	2107	rBV	2516798	2078929	95.05%	13.325%
22	8.269	2146	2150	2155	rVB4	64235	57743	2.64%	0.370%
23	8.645	2266	2271	2278	rBV2	301834	256297	11.72%	1.643%
24	8.742	2297	2302	2307	rBV	124583	108600	4.97%	0.696%
25	9.192	2440	2447	2456	rBV	2445004	2187144	100.00%	14.018%

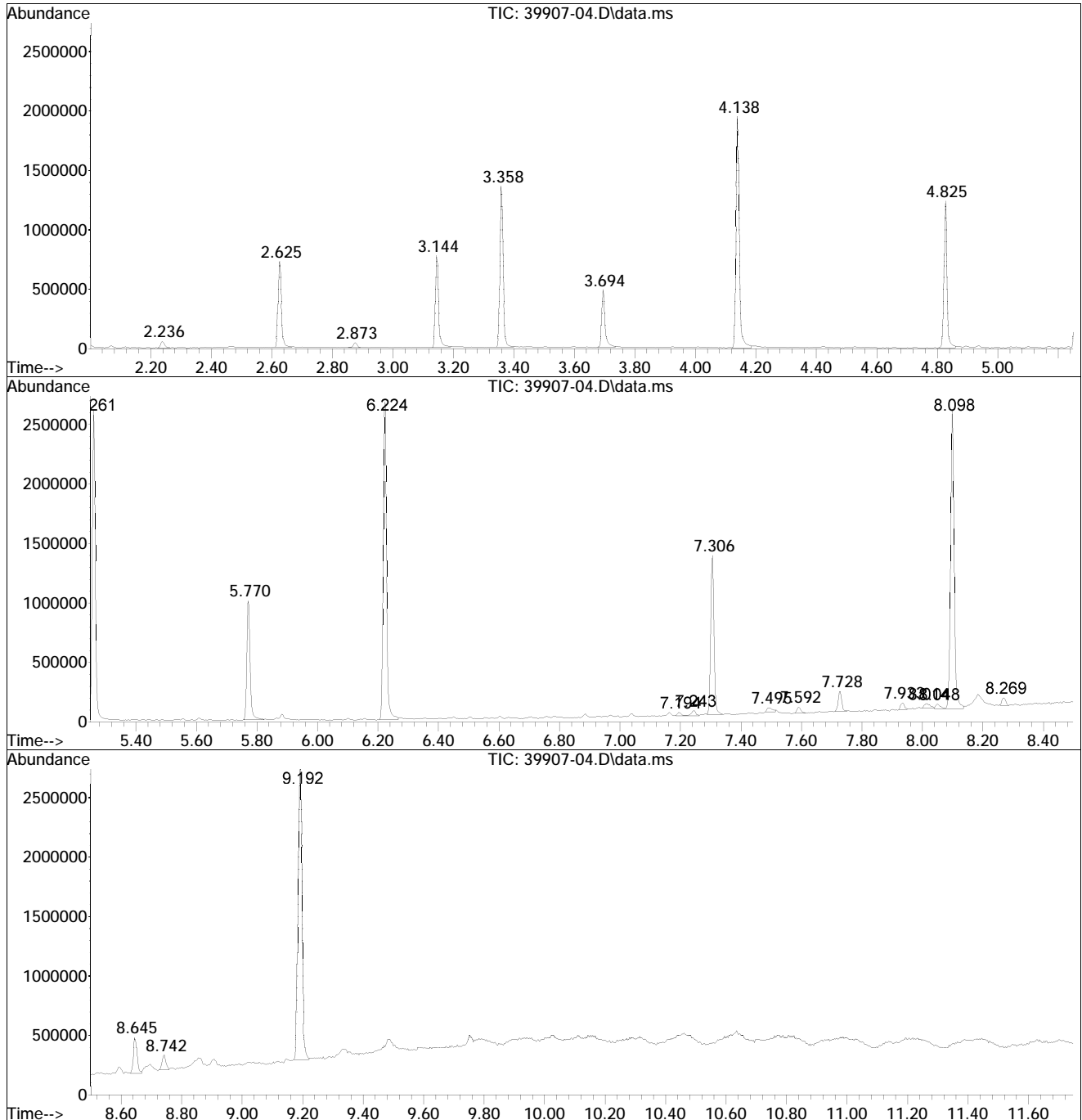
Sum of corrected areas: 15601996

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV124\230720na\
Data File : 39907-04.D
Acq On : 20 Jul 2023 10:42 pm
Operator : SV124:ljb
Sample : L2339907-04,32,,mg
Misc : wg1805740,WG1804755,ical20053
ALS Vial : 12 Sample Multiplier: 1

Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : I:\8270\SV124\230720na\
 Data File : 39907-04.D
 Acq On : 20 Jul 2023 10:42 pm
 Operator : SV124:ljb
 Sample : L2339907-04,32,,mg
 Misc : wg1805740,WG1804755,ical20053
 ALS Vial : 12 Sample Multiplier: 1

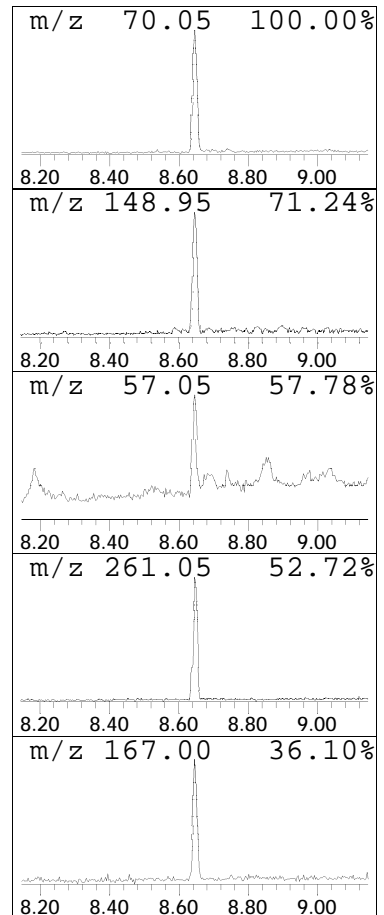
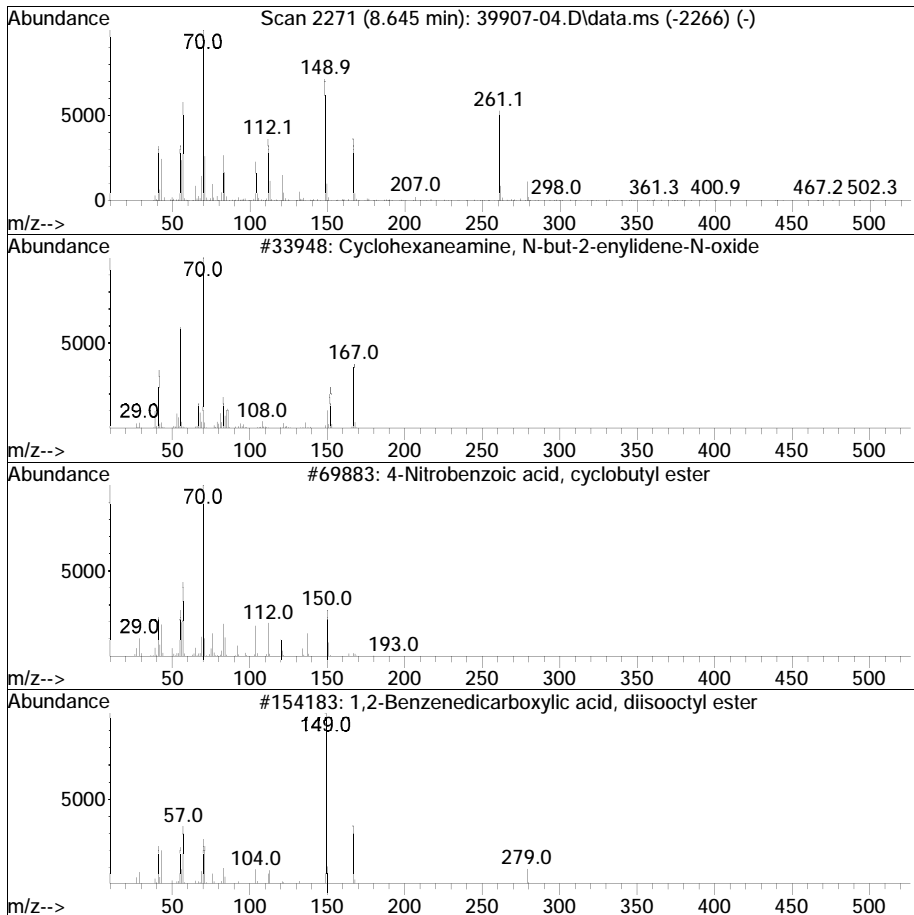
Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: lscint.p

 Peak Number 1 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.645	4.69 ug/ml	256297	IS1_Perylene-d12	9.192

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclohexaneamine, N-but-2-enylid...	167	C10H17NO	068048-01-1	27
2		4-Nitrobenzoic acid, cyclobutyl ...	221	C11H11NO4	070335-00-1	25
3		1,2-Benzenedicarboxylic acid, di...	390	C24H38O4	027554-26-3	22
4		Di-n-octyl phthalate	390	C24H38O4	000117-84-0	22
5		Acetic acid, [4-(4-methyl-1-pipe...	262	C14H18N2O3	346699-90-9	22



Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV124\230720na\
 Data File : 39907-04.D
 Acq On : 20 Jul 2023 10:42 pm
 Operator : SV124:ljpg
 Sample : L2339907-04,32,,mg
 Misc : wg1805740,WG1804755,ical20053
 ALS Vial : 12 Sample Multiplier: 1

Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
 TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard---			
					#	RT	Resp	Conc
Unknown	8.645	4.7	ug/ml	256297	13	9.192	2187140	40.0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
 Data File : 39907-09.D
 Acq On : 20 Jul 2023 10:59 pm
 Operator : SV124:ljpg
 Sample : L2339907-09,32,,mg
 Misc : wgl1805740,WG1804755,ical20053
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 26 14:16:53 2023
 Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jul 20 23:12:20 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230720na\ABN0720na.D
 : 2 - I:\8270\sv124\230720na\ADP0720na.D
 : 3 - I:\8270\sv124\230720na\AP90720na.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.358	152	162378	40.000	ug/ml	0.00
Standard Area 1 = 138416			Recovery = 117.31%			
27) IS2_1,4-Dichlorobenzen...	3.358	152	162378	40.000	ug/ml	0.00
Standard Area 3 = 191385			Recovery = 84.84%			
32) IS3_1,4-Dichlorobenzen...	3.358	152	162378	40.000	ug/ml	0.00
Standard Area 2 = 137483			Recovery = 118.11%			
35) IS1_Naphthalene-d8	4.139	136	687575	40.000	ug/ml	# 0.00
Standard Area 1 = 577409			Recovery = 119.08%			
55) IS2_Naphthalene-d8	4.139	136	687575	40.000	ug/ml	# 0.00
Standard Area 3 = 808729			Recovery = 85.02%			
63) IS1_Acenaphthene-d10	5.261	164	394805	40.000	ug/ml	0.00
Standard Area 1 = 323195			Recovery = 122.16%			
83) IS2_Acenaphthene-d10	5.261	164	394805	40.000	ug/ml	0.00
Standard Area 3 = 439260			Recovery = 89.88%			
86) IS3_Acenaphthene-d10	5.261	164	394805	40.000	ug/ml	0.00
Standard Area 2 = 320571			Recovery = 123.16%			
88) IS1_Phenanthrene-d10	6.224	188	792136	40.000	ug/ml	0.00
Standard Area 1 = 662978			Recovery = 119.48%			
100) IS3_Phenanthrene-d10	6.224	188	792136	40.000	ug/ml	0.00
Standard Area 2 = 672734			Recovery = 117.75%			
104) IS1_Chrysene-d12	8.098	240	686494	40.000	ug/ml	0.00
Standard Area 1 = 613530			Recovery = 111.89%			
113) IS1_Perylene-d12	9.192	264	785738	40.000	ug/ml	0.00
Standard Area 1 = 720061			Recovery = 109.12%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.625	112	186759	42.932	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 85.86%			
7) Phenol-d6	3.144	99	239593	42.166	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 84.33%			
19) Nitrobenzene-d5	3.694	82	111057	20.024	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery = 80.10%			
46) 2-Fluorobiphenyl	4.826	172	279259	21.170	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery = 84.68%			
79) 2,4,6-Tribromophenol	5.773	330	98372	41.273	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 82.55%			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
 Data File : 39907-09.D
 Acq On : 20 Jul 2023 10:59 pm
 Operator : SV124:ljpg
 Sample : L2339907-09,32,,mg
 Misc : wgl1805740,WG1804755,ical20053
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 26 14:16:53 2023
 Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jul 20 23:12:20 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230720na\ABN0720na.D
 : 2 - I:\8270\sv124\230720na\ADP0720na.D
 : 3 - I:\8270\sv124\230720na\AP90720na.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	7.306	244	387796	20.265	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	81.06%
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0		N.D.	
8) Phenol	0.000		0		N.D.	
9) Bis(2-chloroethyl)ether	0.000		0		N.D.	
14) Bis(2-chloroisopropyl)...	0.000		0		N.D.	
15) 2-Methylphenol	0.000		0		N.D.	
16) Hexachloroethane	0.000		0		N.D.	
17) n-Nitrosodi-n-propylamine	0.000		0		N.D.	d
18) 3-Methylphenol/4-Methy...	0.000		0		N.D.	
20) Nitrobenzene	0.000		0		N.D.	d
21) Isophorone	0.000		0		N.D.	d
22) 2-Nitrophenol	0.000		0		N.D.	
23) 2,4-Dimethylphenol	0.000		0		N.D.	d
24) Bis(2-chloroethoxy)met...	0.000		0		N.D.	
25) 2,4-Dichlorophenol	0.000		0		N.D.	
28) Benzaldehyde	0.000		0		N.D.	
29) Acetophenone	0.000		0		N.D.	
36) Naphthalene	0.000		0		N.D.	d
38) 4-Chloroaniline	0.000		0		N.D.	d
39) Hexachlorobutadiene	0.000		0		N.D.	
40) p-Chloro-m-cresol	0.000		0		N.D.	
41) 2-Methylnaphthalene	0.000		0		N.D.	
43) Hexachlorocyclopentadiene	0.000		0		N.D.	
44) 2,4,6-Trichlorophenol	0.000		0		N.D.	
45) 2,4,5-Trichlorophenol	0.000		0		N.D.	
47) 2-Chloronaphthalene	0.000		0		N.D.	
48) 2-Nitroaniline	0.000		0		N.D.	
51) Dimethyl phthalate	0.000		0		N.D.	
52) Acenaphthylene	0.000		0		N.D.	d
53) 2,6-Dinitrotoluene	0.000		0		N.D.	
60) Caprolactam	0.000		0		N.D.	d
61) 1,2,4,5-Tetrachloroben...	0.000		0		N.D.	
62) Biphenyl	0.000		0		N.D.	
64) 3-Nitroaniline	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
 Data File : 39907-09.D
 Acq On : 20 Jul 2023 10:59 pm
 Operator : SV124:ljpg
 Sample : L2339907-09,32,,mg
 Misc : wgl1805740,WG1804755,ical20053
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 26 14:16:53 2023
 Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jul 20 23:12:20 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230720na\ABN0720na.D
 : 2 - I:\8270\sv124\230720na\ADP0720na.D
 : 3 - I:\8270\sv124\230720na\AP90720na.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Acenaphthene	0.000		0	N.D.	d	
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.		
69) 4-Nitrophenol	0.000		0	N.D.	d	
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
73) Fluorene	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.	d	
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
81) Hexachlorobenzene	0.000		0	N.D.		
82) Pentachlorophenol	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
89) Phenanthrene	0.000		0	N.D.	d	
90) Anthracene	0.000		0	N.D.	d	
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.	d	
93) Fluoranthene	0.000		0	N.D.	d	
95) Pyrene	0.000		0	N.D.	d	
97) Butyl benzyl phthalate	0.000		0	N.D.		
105) Benzo(a)anthracene	0.000		0	N.D.	d	
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Chrysene	0.000		0	N.D.	d	
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	
110) Benzo(b)fluoranthene	0.000		0	N.D.	d	
111) Benzo(k)fluoranthene	0.000		0	N.D.	d	
112) Benzo(a)pyrene	0.000		0	N.D.	d	
114) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
115) Dibenzo(a,h)anthracene	0.000		0	N.D.		
116) Benzo(ghi)perylene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
Data File : 39907-09.D
Acq On : 20 Jul 2023 10:59 pm
Operator : SV124:ljpg
Sample : L2339907-09,32,,mg
Misc : wg1805740,WG1804755,ical20053
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 26 14:16:53 2023
Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jul 20 23:12:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230720na\ABN0720na.D
 : 2 - I:\8270\sv124\230720na\ADP0720na.D
 : 3 - I:\8270\sv124\230720na\AP90720na.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

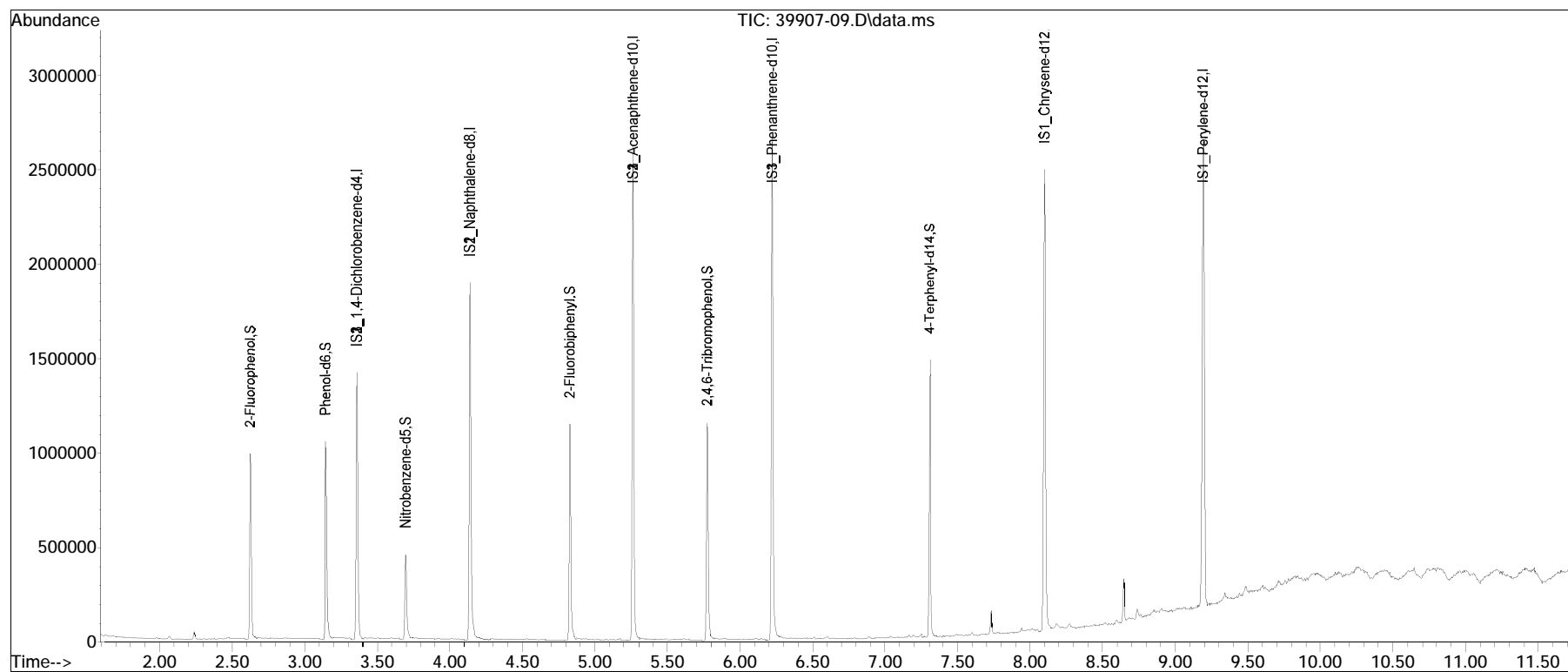
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
Data File : 39907-09.D
Acq On : 20 Jul 2023 10:59 pm
Operator : SV124:ljj
Sample : L2339907-09,32,,mg
Misc : wg1805740,WG1804755,ical20053
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 26 14:16:53 2023
Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jul 20 23:12:20 2023
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAna\AP90720na.D•



Manual Integration Report

Data Path	: I:\8270\SV124\230720na\	QMethod	: FS230526SV124.m
Data File	: 39907-09.D	Operator	: SV124:ljpg
Date Inj'd	: 7/20/2023 10:59 pm	Instrument	: SV124
Sample	: L2339907-09,32,,mg	Quant Date	: 7/20/2023 11:12 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\8270\SV124\230720na\
 Data File : 39907-09.D
 Acq On : 20 Jul 2023 10:59 pm
 Operator : SV124:ljpg
 Sample : L2339907-09,32,,mg
 Misc : wgl805740,WG1804755,ical20053
 ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 500 Area counts
 Start Thrs: 0.001 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : I:\8270\sv124\230720na\FS230526SV124.m
 Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 39907-09.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.236	205	209	217	rBV	38180	35103	1.60%	0.225%
2	2.625	329	334	348	rBV	981562	725961	33.12%	4.653%
3	3.144	495	501	516	rBV	1048100	755666	34.47%	4.843%
4	3.358	564	570	588	rBV	1414986	1027161	46.85%	6.583%
5	3.694	673	678	690	rBV	448367	359817	16.41%	2.306%
6	4.139	815	821	840	rBV	1893113	1440019	65.69%	9.229%
7	4.826	1036	1042	1058	rBV	1143198	843023	38.46%	5.403%
8	5.261	1176	1182	1198	rBV	2617581	1855808	84.65%	11.894%
9	5.770	1341	1346	1361	rBV	1149124	865296	39.47%	5.546%
10	6.224	1485	1492	1508	rBV	2689390	2010269	91.70%	12.884%
11	7.306	1834	1840	1847	rBV	1467654	1106535	50.48%	7.092%
12	7.728	1971	1976	1983	rBV2	123697	100733	4.60%	0.646%
13	8.098	2088	2095	2108	rBV	2443050	2059513	93.95%	13.200%
14	8.645	2266	2271	2278	rBV	227129	186396	8.50%	1.195%
15	8.739	2298	2301	2306	rBV2	46237	39063	1.78%	0.250%
16	9.192	2440	2447	2457	rVB	2466276	2192216	100.00%	14.050%

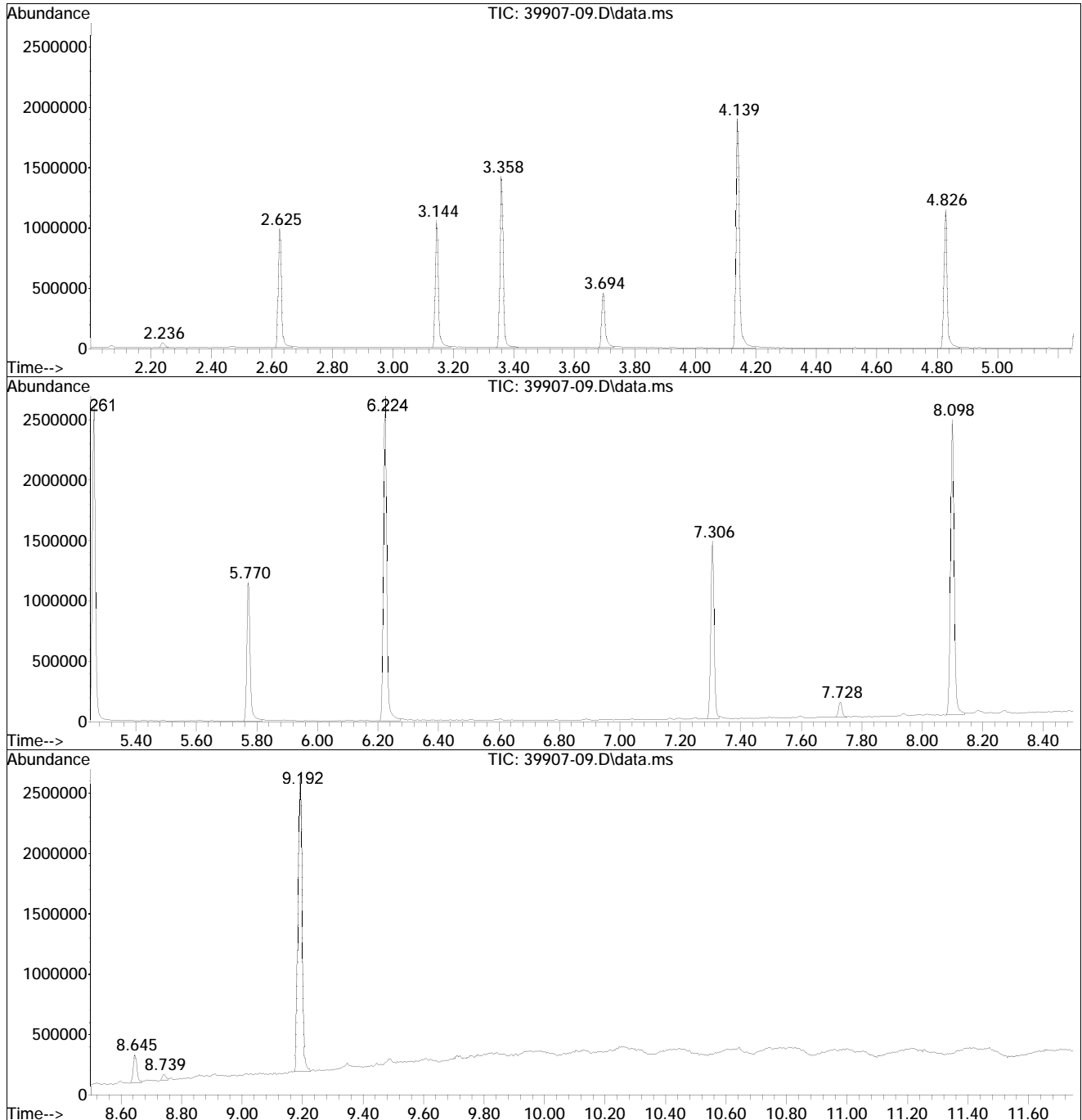
Sum of corrected areas: 15602579

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV124\230720na\
Data File : 39907-09.D
Acq On : 20 Jul 2023 10:59 pm
Operator : SV124:ljb
Sample : L2339907-09,32,,mg
Misc : wg1805740,WG1804755,ical20053
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : I:\8270\SV124\230720na\
Data File : 39907-09.D
Acq On : 20 Jul 2023 10:59 pm
Operator : SV124:ljb
Sample : L2339907-09,32,,mg
Misc : wgl805740,WG1804755,ical20053
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: lscint.p

No Library Search Compounds Detected

Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV124\230720na\
Data File : 39907-09.D
Acq On : 20 Jul 2023 10:59 pm
Operator : SV124:ljpg
Sample : L2339907-09,32,,mg
Misc : wgl1805740,WG1804755,ical20053
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV103
Calibration dates : 05/15/23 21:20 05/16/23 13:32

Lab Number : L2339907
Project Number : 2230119
Ical Ref : ICAL20013

Calibration Files

1.0 =ADPL1b.d 2.0 =ADPL2b.d 3.0 =ADPL3b.d 5.0 =ADPL4b.d 10 =ADPL5b.d 20 =ADPL6b.d 50 =ADPL7
 100 =ADPL8b.d 150 =ADPL9b.d 200 =ADPL10b.d

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
1) I IS1_1,4-Dichlorobenzene-d4	-----ISTD-----											
2) t N-Nitrosodimethylamine	0.676	0.670	0.698	0.701	0.689	0.721	0.758	0.723	0.709	0.787	0.713	5.06
3) t Pyridine	1.084	1.151	1.141	1.147	1.161	1.188	1.271	1.209	1.176	1.311	1.184	5.58
4) S 2-Fluorophenol	0.991	1.087	1.057	1.072	1.094	1.115	1.201	1.147	1.144	1.241	1.115	6.47
5) T Aniline	1.701	1.718	1.772	1.791	1.764	1.806	1.965	1.858	1.830	1.977	1.818	5.13
6) t 2-Chlorophenol	1.178	1.184	1.239	1.277	1.285	1.291	1.403	1.340	1.327	1.432	1.296	6.46
7) S Phenol-d6	1.285	1.315	1.318	1.342	1.358	1.396	1.498	1.439	1.420	1.531	1.390	5.88
8) T Phenol	1.461	1.491	1.529	1.550	1.562	1.568	1.707	1.636	1.624	1.746	1.587	5.71
9) T bis(2-Chloroethyl)ether	1.091	1.108	1.121	1.108	1.102	1.077	1.183	1.119	1.108	1.197	1.121	3.43
10) T 1,3-Dichlorobenzene	1.591	1.460	1.520	1.494	1.489	1.481	1.575	1.485	1.466	1.589	1.515	3.36
11) T 1,4-Dichlorobenzene	1.548	1.563	1.554	1.553	1.512	1.510	1.596	1.514	1.502	1.628	1.548	2.63
12) T 1,2-Dichlorobenzene	1.422	1.479	1.448	1.444	1.446	1.438	1.546	1.457	1.444	1.562	1.469	3.22
13) t Benzyl alcohol	0.702	0.781	0.839	0.838	0.855	0.887	0.995	0.951	0.953	1.033	0.883	11.46
14) T bis(2-chloroisopropyl)ether	1.679	1.748	1.768	1.812	1.759	1.760	1.920	1.802	1.779	1.910	1.794	4.08
15) T 2-Methylphenol	1.005	1.014	1.076	1.076	1.086	1.108	1.207	1.136	1.130	1.228	1.107	6.56
16) T Hexachloroethane	0.461	0.536	0.539	0.523	0.528	0.520	0.559	0.535	0.528	0.577	0.531	5.67
17) T n-Nitrosodi-n-propylamine	0.713	0.714	0.734	0.741	0.754	0.760	0.851	0.806	0.798	0.865	0.773	7.00
18) T 3-Methylphenol/4-Methylphenol	1.054	1.076	1.117	1.138	1.152	1.173	1.277	1.203	1.192	1.291	1.167	6.63
19) S Nitrobenzene-d5	1.015	1.057	1.062	1.113	1.123	1.159	1.284	1.210	1.207	1.304	1.153	8.43
20) T Nitrobenzene	0.968	1.064	1.097	1.127	1.126	1.184	1.300	1.232	1.218	1.323	1.164	9.36
21) T Isophorone	1.768	1.938	1.954	2.017	2.071	2.124	2.361	2.225	2.209	2.417	2.108	9.51
22) T 2-Nitrophenol		0.429	0.470	0.498	0.517	0.565	0.653	0.648	0.651	0.688	0.569	16.58
23) T 2,4-Dimethylphenol	1.035	1.106	1.086	1.165	1.171	1.205	1.325	1.250	1.249	1.353	1.194	8.59
24) T bis(2-Chloroethoxy)methane	1.255	1.306	1.331	1.359	1.342	1.351	1.481	1.387	1.376	1.503	1.369	5.46
25) T 2,4-Dichlorophenol	0.835	0.927	0.996	1.030	1.043	1.079	1.195	1.130	1.128	1.219	1.058	11.23
26) T 1,2,4-Trichlorobenzene	1.180	1.194	1.176	1.199	1.186	1.169	1.263	1.186	1.190	1.285	1.203	3.22
27) I IS2_1,4-Dichlorobenzene-d4	-----ISTD-----											
28) T Benzaldehyde			0.898	0.912	0.978	0.948	0.899	0.818	0.788	0.638	0.860	12.72
29) T Acetophenone		1.589	1.577	1.650	1.893	1.824	1.870	1.747	1.747	1.768	1.741	6.60
30) T m-Toluidine	1.244	1.367	1.393	1.487	1.744	1.664	1.674	1.496	1.471	1.307	1.485	11.17
31) T 2-Chloroaniline	1.384	1.444	1.446	1.512	1.712	1.671	1.714	1.593	1.604	1.617	1.570	7.48
32) I IS3_1,4-Dichlorobenzene-d4	-----ISTD-----											
33) T 1,4-Dioxane	0.543	0.422	0.505	0.477	0.474	0.466	0.438	0.440	0.428	0.445	0.464	8.14
34) T n-Decane		1.280	1.282	1.314	1.309	1.318	1.318	1.298	1.248	1.288	1.295	1.78
35) I IS1_Naphthalene-d8	-----ISTD-----											
36) T Naphthalene	1.072	1.058	1.049	1.054	1.035	1.025	1.093	1.026	1.017	1.094	1.052	2.61



Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV103
Calibration dates : 05/15/23 21:20 05/16/23 13:32

Lab Number : L2339907
Project Number : 2230119
Ical Ref : ICAL20013

Calibration Files

1.0 =ADPL1b.d 2.0 =ADPL2b.d 3.0 =ADPL3b.d 5.0 =ADPL4b.d 10 =ADPL5b.d 20 =ADPL6b.d 50 =ADPL7
 100 =ADPL8b.d 150 =ADPL9b.d 200 =ADPL10b.d

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
37) T Benzoic Acid				0.098	0.139	0.176	0.222	0.225	0.233	0.243	*L	0.9987
38) T 4-Chloroaniline	0.098	0.106	0.105	0.106	0.107	0.109	0.116	0.112	0.110	0.119	0.109	5.43
39) T Hexachlorobutadiene	0.167	0.174	0.172	0.177	0.172	0.168	0.180	0.172	0.173	0.184	0.174	2.99
40) T p-Chloro-m-cresol	0.219	0.220	0.248	0.252	0.255	0.273	0.295	0.283	0.285	0.308	0.264	11.49
41) T 2-Methylnaphthalene	0.604	0.626	0.646	0.657	0.640	0.652	0.697	0.659	0.661	0.708	0.655	4.64
42) T 1-Methylnaphthalene	0.188	0.187	0.204	0.202	0.202	0.205	0.215	0.206	0.209	0.226	0.205	5.60
43) T Hexachlorocyclopentadiene			0.158	0.169	0.175	0.181	0.204	0.202	0.206	0.216	0.189	10.93
44) T 2,4,6-Trichlorophenol	0.146	0.149	0.164	0.175	0.183	0.193	0.214	0.206	0.211	0.227	0.187	15.12
45) T 2,4,5-Trichlorophenol	0.167	0.186	0.189	0.199	0.209	0.218	0.237	0.229	0.231	0.247	0.211	12.13
46) S 2-Fluorobiphenyl	0.710	0.728	0.736	0.753	0.736	0.750	0.796	0.750	0.753	0.809	0.752	3.96
47) T 2-Chloronaphthalene	0.607	0.614	0.625	0.636	0.631	0.647	0.689	0.647	0.649	0.703	0.645	4.74
48) T 2-Nitroaniline			0.156	0.167	0.181	0.199	0.228	0.220	0.221	0.243	0.202	15.45
49) T 1,4-Dinitrobenzene					0.076	0.087	0.101	0.099	0.101	0.109	0.096	12.49
50) T 1,3-Dinitrobenzene		0.065	0.075	0.082	0.090	0.103	0.118	0.113	0.115	0.124	*L	0.9978
51) T Dimethyl phthalate	0.659	0.672	0.712	0.720	0.740	0.754	0.816	0.760	0.757	0.832	0.742	7.45
52) T Acenaphthylene	0.856	0.917	0.925	0.965	0.987	1.025	1.093	1.021	1.016	1.108	0.991	7.92
53) T 2,6-Dinitrotoluene		0.114	0.124	0.136	0.147	0.158	0.176	0.166	0.168	0.184	0.152	15.72
54) T 1,2-Dinitrobenzene			0.054	0.058	0.062	0.066	0.076	0.071	0.072	0.078	0.067	13.05
55) I IS2_Naphthalene-d8	-----ISTD-----											
56) T a-Terpineol		0.206	0.202	0.217	0.230	0.239	0.247	0.243	0.245	0.248	0.231	7.74
57) T 3-Chloroaniline		0.109	0.108	0.117	0.122	0.121	0.119	0.115	0.113	0.110	0.115	4.59
58) T 2,6-Dichlorophenol	0.195	0.207	0.222	0.227	0.264	0.271	0.282	0.276	0.278	0.289	0.251	13.82
59) T 1-chloro-2-nitrobenzene		0.103	0.108	0.109	0.126	0.125	0.130	0.128	0.130	0.134	0.121	9.45
60) T Caprolactam			0.090	0.103	0.142	0.139	0.149	0.139	0.141	0.148	0.131	16.82
61) T 1,2,4,5-Tetrachlorobenzene		0.289	0.289	0.305	0.322	0.310	0.309	0.293	0.295	0.303	0.302	3.63
62) T Biphenyl	0.805	0.779	0.805	0.804	0.902	0.858	0.859	0.800	0.796	0.820	0.823	4.61
63) I IS1_Acenaphthene-d10	-----ISTD-----											
64) T 3-Nitroaniline			0.295	0.315	0.334	0.356	0.388	0.368	0.365	0.395	0.352	9.86
65) T Acenaphthene	1.188	1.164	1.165	1.156	1.134	1.122	1.193	1.137	1.132	1.213	1.160	2.59
66) T 2,4-Dinitrophenol				0.077	0.103	0.114	0.151	0.156	0.161	0.170	*L	0.9978
67) T Dibenzofuran	1.817	1.824	1.810	1.801	1.753	1.764	1.864	1.753	1.744	1.854	1.799	2.40
68) T 2,4-Dinitrotoluene		0.294	0.307	0.326	0.371	0.397	0.444	0.427	0.432	0.460	0.384	16.25
69) T 4-Nitrophenol			0.193	0.196	0.212	0.229	0.257	0.242	0.243	0.259	0.229	11.35
70) T 2,3,5,6-Tetrachlorophenol		0.256	0.267	0.274	0.296	0.314	0.356	0.342	0.346	0.369	0.313	13.48
71) T 2,3,4,6-Tetrachlorophenol		0.260	0.274	0.308	0.322	0.332	0.357	0.342	0.347	0.373	0.324	11.58
72) T Diethyl phthalate	1.192	1.290	1.345	1.364	1.410	1.428	1.541	1.430	1.439	1.573	1.401	8.00



Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV103
Calibration dates : 05/15/23 21:20 05/16/23 13:32

Lab Number : L2339907
Project Number : 2230119
Ical Ref : ICAL20013

Calibration Files

1.0 =ADPL1b.d 2.0 =ADPL2b.d 3.0 =ADPL3b.d 5.0 =ADPL4b.d 10 =ADPL5b.d 20 =ADPL6b.d 50 =ADPL7
 100 =ADPL8b.d 150 =ADPL9b.d 200 =ADPL10b.d

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
73) T Fluorene	1.298	1.360	1.382	1.376	1.373	1.381	1.491	1.397	1.390	1.503	1.395	4.33
74) T 4-Chlorophenyl-phenylether	0.642	0.644	0.672	0.668	0.643	0.637	0.692	0.649	0.646	0.698	0.659	3.35
75) T 4-Nitroaniline			0.317	0.322	0.353	0.372	0.390	0.361	0.354	0.387	0.357	7.59
76) T 4,6-Dinitro-o-cresol			0.101	0.110	0.139	0.161	0.192	0.195	0.202	0.216	*L	0.9972
77) T NDPA/DPA	1.091	1.155	1.172	1.187	1.182	1.197	1.285	1.191	1.186	1.277	1.192	4.68
78) T Azobenzene	1.064	1.123	1.163	1.175	1.202	1.204	1.302	1.209	1.211	1.309	1.196	6.15
79) S 2,4,6-Tribromophenol		0.173	0.178	0.187	0.199	0.213	0.237	0.232	0.239	0.258	0.213	14.30
80) T 4-Bromophenyl-phenylether	0.358	0.369	0.389	0.385	0.387	0.388	0.416	0.393	0.399	0.436	0.392	5.62
81) T Hexachlorobenzene	0.451	0.471	0.468	0.469	0.474	0.467	0.500	0.477	0.484	0.526	0.479	4.34
82) T Pentachlorophenol			0.187	0.188	0.227	0.251	0.291	0.288	0.297	0.323	*L	0.9970
83) I IS2_Acenaphthene-d10	-----ISTD-----											
84) T Dichloran				0.097	0.126	0.130	0.152	0.160	0.164	0.180	0.144	19.34
85) T Pentachloronitrobenzene				0.091	0.136	0.137	0.148	0.146	0.148		0.135	16.38
86) I IS3_Acenaphthene-d10	-----ISTD-----											
87) T Atrazine		0.235	0.248	0.272	0.289	0.325	0.379	0.361	0.411	0.356	0.320	19.33
88) I IS1_Phenanthrene-d10	-----ISTD-----											
89) T Phenanthrene	1.143	1.133	1.129	1.124	1.081	1.069	1.136	1.058	1.041	1.111	1.102	3.34
90) T Anthracene	1.049	1.061	1.091	1.076	1.063	1.075	1.152	1.092	1.065	1.140	1.086	3.14
91) T Carbazole	0.998	0.960	1.012	1.015	1.025	1.026	1.086	1.004	0.993	1.055	1.017	3.41
92) T Di-n-butylphthalate	0.809	0.889	0.961	0.976	1.075	1.130	1.292	1.234	1.231	1.329	1.092	16.41
93) T Fluoranthene	1.117	1.117	1.134	1.118	1.155	1.156	1.244	1.170	1.150	1.209	1.157	3.63
94) T Benzidine		0.558	0.597	0.614	0.707	0.763	0.850	0.812	0.811	0.853	0.729	15.75
95) T Pyrene	1.257	1.218	1.244	1.219	1.251	1.244	1.327	1.227	1.188	1.268	1.244	2.99
96) S 4-Terphenyl-d14	0.900	0.946	0.933	0.892	0.920	0.925	0.986	0.923	0.908	0.973	0.931	3.26
97) T Butyl benzyl phthalate			0.318	0.344	0.414	0.460	0.557	0.542	0.540	0.583	*L	0.9980
98) I IS2_Phenanthrene-d10	-----ISTD-----											
99) T Diphenamid	0.308	0.314	0.351	0.377	0.460	0.445	0.464	0.475	0.467	0.501	0.416	17.20
100) I IS3_Phenanthrene-d10	-----ISTD-----											
101) T n-Octadecane		0.323	0.331	0.380	0.389	0.413	0.433	0.450	0.451	0.453	0.402	12.53
102) T Parathion				0.051	0.054	0.069	0.097	0.105	0.124		*Q	0.9986
103) T 3,3'-Dimethylbenzidine			0.339	0.385	0.453	0.574	0.711	0.711	0.663	0.636	*L	0.9961
104) I IS1_Chrysene-d12	-----ISTD-----											
105) T Benzo[a]anthracene	1.434	1.325	1.311	1.289	1.268	1.284	1.374	1.300	1.289	1.376	1.325	4.00
106) T 3,3'-Dichlorobenzidine		0.363	0.412	0.428	0.466	0.489	0.550	0.536	0.535	0.573	0.484	14.80
107) T Chrysene	1.576	1.388	1.347	1.344	1.279	1.263	1.323	1.232	1.208	1.306	1.326	7.80
108) T bis(2-Ethylhexyl)phthalate		0.478	0.575	0.619	0.742	0.815	0.966	0.933	0.935	1.013	*L	0.9978



Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV103
Calibration dates : 05/15/23 21:20 05/16/23 13:32

Lab Number : L2339907
Project Number : 2230119
Ical Ref : ICAL20013

Calibration Files

1.0 =ADPL1b.d 2.0 =ADPL2b.d 3.0 =ADPL3b.d 5.0 =ADPL4b.d 10 =ADPL5b.d 20 =ADPL6b.d 50 =ADPL7
 100 =ADPL8b.d 150 =ADPL9b.d 200 =ADPL10b.d

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
109) T Di-n-octylphthalate			0.774	0.832	1.080	1.277	1.601	1.587	1.605	1.749	*L	0.9969
110) T Benzo(b)fluoranthene	1.216	1.218	1.233	1.201	1.241	1.282	1.379	1.335	1.315	1.444	1.286	6.26
111) T Benzo(k)fluoranthene	1.256	1.262	1.304	1.254	1.301	1.325	1.428	1.328	1.328	1.410	1.320	4.55
112) T Benzo(a)pyrene	0.971	0.975	1.055	1.041	1.084	1.124	1.231	1.177	1.172	1.262	1.109	9.12
113) I IS1_Perylene-d12	-----ISTD-----											
114) T Indeno(1,2,3-cd)pyrene	0.660	0.701	0.744	0.756	0.803	0.854	0.956	0.980	1.001	1.079	0.853	16.75
115) T Dibenzo[a,h]anthracene	0.847	0.877	0.909	0.926	0.978	1.020	1.128	1.134	1.145	1.265	1.023	13.58
116) T Benzo(g,h,i)perylene	0.914	0.921	0.961	0.991	0.998	1.038	1.126	1.122	1.131	1.214	1.042	9.77



Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Calibration dates : 05/26/23 17:25 05/27/23 02:07

Lab Number : L2339907
Project Number : 2230119
Ical Ref : ICAL20053

Calibration Files

1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =AP9L6.D 50 =AP9L7.D
 100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
1) I IS1_1,4-Dichlorobenzene-d4	-----ISTD-----											
2) t N-Nitrosodimethylamine	0.593	0.585	0.606	0.629	0.680	0.713	0.735	0.751	0.802	0.890	0.698	14.27
3) t Pyridine		0.687	0.837	1.146	0.988	1.161	1.228	1.290	1.349		*L	0.9980
4) S 2-Fluorophenol	0.820	0.909	0.943	1.017	1.052	1.076	1.157	1.159	1.225	1.358	1.072	14.93
5) T Aniline	1.509	1.635	1.618	1.689	1.735	1.792	1.885	1.940	2.057	2.239	1.810	12.31
6) t 2-Chlorophenol	1.088	1.100	1.145	1.226	1.233	1.260	1.351	1.312	1.415	1.535	1.267	11.19
7) S Phenol-d6	1.121	1.163	1.310	1.281	1.342	1.384	1.498	1.507	1.627	1.764	1.400	14.38
8) T Phenol	1.119	1.253	1.299	1.362	1.469	1.538	1.643	1.663	1.795	2.000	1.514	17.76
9) T bis(2-Chloroethyl)ether	1.131	1.248	1.188	1.067	1.171	1.170	1.270	1.255	1.288	1.427	1.221	8.16
10) T 1,3-Dichlorobenzene	1.303	1.528	1.432	1.455	1.447	1.396	1.485	1.447	1.504	1.665	1.466	6.39
11) T 1,4-Dichlorobenzene	1.721	1.539	1.376	1.530	1.444	1.488	1.529	1.496	1.525	1.706	1.535	6.91
12) T 1,2-Dichlorobenzene	1.372	1.499	1.533	1.466	1.416	1.423	1.452	1.418	1.485	1.640	1.470	5.15
13) t Benzyl alcohol		0.550	0.649	0.724	0.824	0.947	1.062	1.121	1.183	1.276	*Q	0.9998
14) T bis(2-chloroisopropyl)ether	2.008	1.998	1.848	1.878	1.992	1.997	2.211	2.192	2.233	2.508	2.086	9.54
15) T 2-Methylphenol	1.172	1.078	1.089	1.102	1.158	1.121	1.225	1.230	1.285	1.404	1.186	8.63
16) T Hexachloroethane	0.531	0.529	0.628	0.546	0.597	0.565	0.620	0.612	0.624	0.698	0.595	8.90
17) T n-Nitrosodi-n-propylamine	0.768	0.890	0.761	0.867	0.873	0.866	1.015	1.060	1.107	1.221	0.943	16.06
18) T 3-Methylphenol/4-Methylphenol	0.974	1.049	1.027	1.125	1.138	1.222	1.278	1.317	1.399	1.531	1.206	14.69
19) S Nitrobenzene-d5	1.155	1.126	1.127	1.280	1.304	1.349	1.490	1.523	1.600	1.709	1.366	15.10
20) T Nitrobenzene	1.172	1.252	1.206	1.327	1.335	1.342	1.476	1.502	1.588	1.721	1.392	12.62
21) T Isophorone	2.116	2.225	2.154	2.027	2.485	2.472	2.671	2.723	2.774	2.991	2.464	13.18
22) T 2-Nitrophenol	0.439	0.541	0.554	0.527	0.589	0.625	0.689	0.701	0.737	0.781	0.618	17.36
23) T 2,4-Dimethylphenol	1.068	1.057	1.105	1.268	1.276	1.291	1.413	1.444	1.511	1.663	1.309	15.30
24) T bis(2-Chloroethoxy)methane	1.384	1.391	1.468	1.436	1.547	1.522	1.685	1.701	1.718	1.887	1.574	10.61
25) T 2,4-Dichlorophenol		0.900	0.959	1.013	1.098	1.101	1.181	1.191	1.213	1.341	1.111	12.39
26) T 1,2,4-Trichlorobenzene	1.381	1.259	1.220	1.294	1.271	1.234	1.314	1.309	1.350	1.458	1.309	5.50
27) I IS2_1,4-Dichlorobenzene-d4	-----ISTD-----											
28) T Benzaldehyde		0.649	0.662	0.834	0.821	0.860	0.837	0.815	0.785		0.783	10.39
29) T Acetophenone	0.989	1.266	1.314	1.474	1.553	1.749	1.828	1.910	1.926	2.016	*Q	0.9998
30) T m-Toluidine	1.053	1.321	1.252	1.371	1.500	1.687	1.692	1.749	1.724	1.662	1.501	16.02
31) T 2-Chloroaniline	1.431	1.444	1.348	1.459	1.516	1.662	1.687	1.764	1.777	1.847	1.593	10.94
32) I IS3_1,4-Dichlorobenzene-d4	-----ISTD-----											
33) T 1,4-Dioxane	0.588	0.584	0.504	0.472	0.450	0.445	0.434	0.440	0.417	0.448	0.478	12.83
34) T n-Decane	0.507	1.295	1.397	1.401	1.365	1.429	1.427	1.494	1.498	1.560	*L	0.9991
35) I IS1_Naphthalene-d8	-----ISTD-----											
36) T Naphthalene	1.018	0.953	0.961	0.986	0.957	0.976	1.039	1.023	1.048	1.154	1.011	6.02



Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Calibration dates : 05/26/23 17:25 05/27/23 02:07

Lab Number : L2339907
Project Number : 2230119
Ical Ref : ICAL20053

Calibration Files

1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =AP9L6.D 50 =AP9L7.D
 100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
37) T Benzoic Acid				0.039	0.108	0.162	0.237	0.251	0.266	0.283	*L	0.9966
38) T 4-Chloroaniline	0.089	0.102	0.112	0.120	0.123	0.123	0.138	0.140	0.146	0.160	0.125	17.10
39) T Hexachlorobutadiene	0.207	0.192	0.202	0.199	0.193	0.191	0.209	0.202	0.200	0.220	0.202	4.49
40) T p-Chloro-m-cresol	0.231	0.227	0.235	0.244	0.251	0.276	0.302	0.305	0.322	0.340	0.273	15.13
41) T 2-Methylnaphthalene	0.630	0.630	0.616	0.611	0.627	0.630	0.680	0.680	0.691	0.753	0.655	6.87
42) T 1-Methylnaphthalene	0.227	0.229	0.217	0.228	0.227	0.220	0.245	0.247	0.253	0.282	0.237	8.35
43) T Hexachlorocyclopentadiene					0.243	0.239	0.273	0.261	0.258	0.284	0.260	6.60
44) T 2,4,6-Trichlorophenol	0.162	0.168	0.179	0.178	0.200	0.201	0.231	0.229	0.237	0.255	0.204	15.89
45) T 2,4,5-Trichlorophenol	0.172	0.185	0.202	0.198	0.223	0.226	0.250	0.259	0.260	0.270	0.225	15.34
46) S 2-Fluorobiphenyl	0.750	0.719	0.747	0.766	0.752	0.734	0.790	0.786	0.779	0.851	0.767	4.82
47) T 2-Chloronaphthalene	0.613	0.603	0.607	0.642	0.656	0.637	0.696	0.689	0.706	0.754	0.660	7.51
48) T 2-Nitroaniline			0.144	0.155	0.174	0.182	0.201	0.214	0.229	0.234	0.192	17.47
49) T 1,4-Dinitrobenzene		0.065	0.067	0.081	0.085	0.087	0.098	0.104	0.109	0.109	0.090	18.87
50) T 1,3-Dinitrobenzene		0.084	0.087	0.088	0.097	0.100	0.111	0.117	0.125	0.125	0.104	15.47
51) T Dimethyl phthalate	0.715	0.703	0.711	0.755	0.754	0.769	0.806	0.822	0.857	0.870	0.776	7.74
52) T Acenaphthylene	0.918	0.973	0.945	0.986	0.994	1.002	1.076	1.089	1.142	1.213	1.034	9.04
53) T 2,6-Dinitrotoluene		0.119	0.125	0.145	0.148	0.151	0.168	0.169	0.180	0.181	0.154	14.59
54) T 1,2-Dinitrobenzene		0.055	0.049	0.067	0.067	0.068	0.074	0.077	0.084	0.087	0.070	17.77
55) I IS2_Naphthalene-d8	-----ISTD-----											
56) T a-Terpineol		0.243	0.240	0.251	0.273	0.297	0.309	0.322	0.330	0.365	0.292	14.90
57) T 3-Chloroaniline		0.126	0.113	0.125	0.133	0.137	0.139	0.133	0.133	0.127	0.129	5.97
58) T 2,6-Dichlorophenol		0.216	0.221	0.240	0.246	0.260	0.274	0.286	0.289	0.313	0.261	12.60
59) T 1-chloro-2-nitrobenzene		0.107	0.127	0.127	0.124	0.132	0.140	0.143	0.147	0.156	0.134	10.88
60) T Caprolactam			0.071	0.101	0.115	0.136	0.153	0.166	0.168	0.178	*L	0.9977
61) T 1,2,4,5-Tetrachlorobenzene		0.344	0.350	0.334	0.352	0.367	0.360	0.364	0.372	0.403	0.361	5.50
62) T Biphenyl	0.735	0.730	0.748	0.787	0.807	0.851	0.847	0.866	0.883	0.967	0.822	9.18
63) I IS1_Acenaphthene-d10	-----ISTD-----											
64) T 3-Nitroaniline			0.243	0.263	0.283	0.309	0.350	0.348	0.386	0.396	0.322	17.62
65) T Acenaphthene	1.101	1.090	1.162	1.065	1.195	1.194	1.234	1.227	1.251	1.377	1.190	7.74
66) T 2,4-Dinitrophenol				0.129	0.144	0.162	0.199	0.209	0.233	0.239	*L	0.9954
67) T Dibenzofuran	1.765	1.750	1.743	1.738	1.734	1.758	1.905	1.920	2.006	2.194	1.851	8.32
68) T 2,4-Dinitrotoluene		0.309	0.302	0.323	0.364	0.386	0.434	0.459	0.522	0.544	*Q	0.9996
69) T 4-Nitrophenol			0.171	0.225	0.226	0.254	0.293	0.304	0.349	0.369	*Q	0.9996
70) T 2,3,5,6-Tetrachlorophenol		0.293	0.280	0.314	0.352	0.357	0.405	0.407	0.426	0.442	0.364	16.31
71) T 2,3,4,6-Tetrachlorophenol		0.341	0.333	0.320	0.336	0.374	0.403	0.405	0.422	0.448	0.376	12.16
72) T Diethyl phthalate	1.343	1.336	1.358	1.369	1.429	1.445	1.635	1.638	1.702	1.747	1.500	10.80



Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Calibration dates : 05/26/23 17:25 05/27/23 02:07

Lab Number : L2339907
Project Number : 2230119
Ical Ref : ICAL20053

Calibration Files

1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =AP9L6.D 50 =AP9L7.D
 100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
73) T Fluorene	1.355	1.388	1.395	1.368	1.410	1.423	1.583	1.679	1.780	1.928	1.531	13.20
74) T 4-Chlorophenyl-phenylether	0.677	0.709	0.661	0.699	0.693	0.692	0.780	0.796	0.815	0.879	0.740	9.77
75) T 4-Nitroaniline		0.196	0.218	0.237	0.284	0.303	0.339	0.324	0.375	0.380	*L	0.9955
76) T 4,6-Dinitro-o-cresol				0.181	0.194	0.198	0.244	0.256	0.278	0.284	0.233	18.08
77) T NDPA/DPA	1.053	1.131	1.072	1.105	1.179	1.151	1.260	1.289	1.365	1.458	1.206	11.03
78) T Azobenzene	1.194	1.245	1.275	1.350	1.402	1.457	1.618	1.668	1.722	1.853	1.478	15.20
79) S 2,4,6-Tribromophenol		0.197	0.216	0.214	0.219	0.235	0.262	0.266	0.276	0.288	0.241	13.35
80) T 4-Bromophenyl-phenylether	0.417	0.430	0.429	0.424	0.418	0.410	0.457	0.459	0.467	0.494	0.440	6.21
81) T Hexachlorobenzene	0.568	0.517	0.540	0.531	0.523	0.497	0.535	0.534	0.564	0.585	0.539	4.86
82) T Pentachlorophenol			0.179	0.222	0.263	0.255	0.309	0.323	0.358	0.363	*L	0.9957
83) I IS2_Acenaphthene-d10	-----ISTD-----											
84) T Dichloran			0.104	0.120	0.144	0.154	0.171	0.188	0.198	0.211	*L	0.9956
85) T Pentachloronitrobenzene			0.151	0.156	0.183	0.193	0.207	0.221	0.226	0.246	0.198	16.94
86) I IS3_Acenaphthene-d10	-----ISTD-----											
87) T Atrazine		0.311	0.311	0.329	0.338	0.369	0.403	0.456	0.474	0.492	0.387	18.55
88) I IS1_Phenanthrene-d10	-----ISTD-----											
89) T Phenanthrene	0.975	0.982	1.005	1.032	0.992	1.015	1.114	1.100	1.140	1.253	1.061	8.42
90) T Anthracene	0.955	0.957	0.951	0.994	0.999	1.039	1.147	1.138	1.189	1.321	1.069	11.64
91) T Carbazole	0.731	0.801	0.821	0.883	0.879	0.931	1.021	0.998	1.111	1.194	0.937	15.42
92) T Di-n-butylphthalate	0.950	0.968	0.966	1.057	1.068	1.106	1.383	1.367	1.393	1.471	1.173	17.58
93) T Fluoranthene	1.118	1.146	1.105	1.144	1.143	1.161	1.254	1.206	1.400	1.539	1.222	11.57
94) T Benzidine		0.518	0.478	0.577	0.630	0.669	0.771	0.756	0.936	1.069	*Q	0.9982
95) T Pyrene	1.159	1.107	1.117	1.201	1.204	1.235	1.320	1.283	1.482	1.651	1.276	13.45
96) S 4-Terphenyl-d14	0.867	0.901	0.856	0.932	0.910	0.875	1.007	0.977	1.126	1.214	0.966	12.31
97) T Butyl benzyl phthalate			0.389	0.461	0.456	0.485	0.583	0.568	0.689	0.771	*Q	0.9985
98) I IS2_Phenanthrene-d10	-----ISTD-----											
99) T Diphenamid	0.379	0.356	0.347	0.378	0.434	0.463	0.490	0.525	0.550	0.615	*Q	0.9956
100) I IS3_Phenanthrene-d10	-----ISTD-----											
101) T n-Octadecane		0.341	0.374	0.382	0.416	0.422	0.468	0.513	0.545	0.546	0.445	17.12
102) T Parathion				0.076	0.080	0.089	0.102	0.126	0.136	0.141	*Q	0.9988
103) T 3,3'-Dimethylbenzidine			0.432	0.489	0.565	0.649	0.779	0.906	0.949	0.975	*Q	0.9989
104) I IS1_Chrysene-d12	-----ISTD-----											
105) T Benzo[a]anthracene	1.268	1.286	1.276	1.298	1.292	1.308	1.447	1.397	1.402	1.527	1.350	6.54
106) T 3,3'-Dichlorobenzidine		0.383	0.383	0.401	0.431	0.468	0.529	0.529	0.551	0.610	0.476	17.30
107) T Chrysene	1.195	1.278	1.311	1.264	1.239	1.255	1.372	1.387	1.421	1.529	1.325	7.64
108) T bis(2-Ethylhexyl)phthalate		0.686	0.682	0.719	0.778	0.811	1.113	1.196	1.138	1.181	*Q	0.9968



Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Calibration dates : 05/26/23 17:25 05/27/23 02:07

Lab Number : L2339907
Project Number : 2230119
Ical Ref : ICAL20053

Calibration Files

1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =AP9L6.D 50 =AP9L7.D
 100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
109) T Di-n-octylphthalate			1.082	1.113	1.231	1.286	1.723	1.723	1.667	1.843	*L	0.9960
110) T Benzo(b)fluoranthene	1.179	1.200	1.203	1.266	1.330	1.411	1.471	1.462	1.562	1.618	1.370	11.52
111) T Benzo(k)fluoranthene	1.109	1.221	1.217	1.296	1.320	1.303	1.518	1.432	1.298	1.585	1.330	10.84
112) T Benzo(a)pyrene	0.899	1.048	1.007	1.095	1.142	1.179	1.333	1.292	1.236	1.393	1.162	13.35
113) I IS1_Perylene-d12	-----ISTD-----											
114) T Indeno(1,2,3-cd)pyrene	0.998	1.083	1.082	1.129	1.169	1.296	1.494	1.526	1.525	1.729	1.303	19.06
115) T Dibenzo[a,h]anthracene	0.881	0.949	0.970	1.001	1.035	1.142	1.332	1.356	1.371	1.557	1.159	19.70
116) T Benzo(g,h,i)perylene	0.945	1.036	1.024	1.058	1.059	1.139	1.287	1.276	1.233	1.386	1.144	12.52



Response Factor Report SV103

Method Path : I:\8270\SV103\230515nical\
 Method File : FS230515nSV103.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Tue May 16 15:00:26 2023
 Response Via : Initial Calibration

Calibration Files

1.0 =ADPL1b.d 2.0 =ADPL2b.d 3.0 =ADPL3b.d 5.0 =ADPL4b.d 10 =ADPL5b.d 20 =ADPL6b.d 50 =ADPL7
 100 =ADPL8b.d 150 =ADPL9b.d 200 =ADPL10b.d

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
1) I IS1_1,4-Dichlorobenzene-d4	-----ISTD-----											
2) t N-Nitrosodimethylamine	0.676	0.670	0.698	0.701	0.689	0.721	0.758	0.723	0.709	0.787	0.713	5.06
3) t Pyridine	1.084	1.151	1.141	1.147	1.161	1.188	1.271	1.209	1.176	1.311	1.184	5.58
4) S 2-Fluorophenol	0.991	1.087	1.057	1.072	1.094	1.115	1.201	1.147	1.144	1.241	1.115	6.47
5) T Aniline	1.701	1.718	1.772	1.791	1.764	1.806	1.965	1.858	1.830	1.977	1.818	5.13
6) t 2-Chlorophenol	1.178	1.184	1.239	1.277	1.285	1.291	1.403	1.340	1.327	1.432	1.296	6.46
7) S Phenol-d6	1.285	1.315	1.318	1.342	1.358	1.396	1.498	1.439	1.420	1.531	1.390	5.88
8) T Phenol	1.461	1.491	1.529	1.550	1.562	1.568	1.707	1.636	1.624	1.746	1.587	5.71
9) T bis(2-Chloroethyl)ether	1.091	1.108	1.121	1.108	1.102	1.077	1.183	1.119	1.108	1.197	1.121	3.43
10) T 1,3-Dichlorobenzene	1.591	1.460	1.520	1.494	1.489	1.481	1.575	1.485	1.466	1.589	1.515	3.36
11) T 1,4-Dichlorobenzene	1.548	1.563	1.554	1.553	1.512	1.510	1.596	1.514	1.502	1.628	1.548	2.63
12) T 1,2-Dichlorobenzene	1.422	1.479	1.448	1.444	1.446	1.438	1.546	1.457	1.444	1.562	1.469	3.22
13) t Benzyl alcohol	0.702	0.781	0.839	0.838	0.855	0.887	0.995	0.951	0.953	1.033	0.883	11.46
14) T bis(2-chloroisopropyl)ether	1.679	1.748	1.768	1.812	1.759	1.760	1.920	1.802	1.779	1.910	1.794	4.08
15) T 2-Methylphenol	1.005	1.014	1.076	1.076	1.086	1.108	1.207	1.136	1.130	1.228	1.107	6.56
16) T Hexachloroethane	0.461	0.536	0.539	0.523	0.528	0.520	0.559	0.535	0.528	0.577	0.531	5.67
17) T n-Nitrosodi-n-propylamine	0.713	0.714	0.734	0.741	0.754	0.760	0.851	0.806	0.798	0.865	0.773	7.00
18) T 3-Methylphenol/4-Methylphenol	1.054	1.076	1.117	1.138	1.152	1.173	1.277	1.203	1.192	1.291	1.167	6.63
19) S Nitrobenzene-d5	1.015	1.057	1.062	1.113	1.123	1.159	1.284	1.210	1.207	1.304	1.153	8.43
20) T Nitrobenzene	0.968	1.064	1.097	1.127	1.126	1.184	1.300	1.232	1.218	1.323	1.164	9.36
21) T Isophorone	1.768	1.938	1.954	2.017	2.071	2.124	2.361	2.225	2.209	2.417	2.108	9.51
22) T 2-Nitrophenol		0.429	0.470	0.498	0.517	0.565	0.653	0.648	0.651	0.688	0.569	16.58
23) T 2,4-Dimethylphenol	1.035	1.106	1.086	1.165	1.171	1.205	1.325	1.250	1.249	1.353	1.194	8.59
24) T bis(2-Chloroethoxy)methane	1.255	1.306	1.331	1.359	1.342	1.351	1.481	1.387	1.376	1.503	1.369	5.46
25) T 2,4-Dichlorophenol	0.835	0.927	0.996	1.030	1.043	1.079	1.195	1.130	1.128	1.219	1.058	11.23
26) T 1,2,4-Trichlorobenzene	1.180	1.194	1.176	1.199	1.186	1.169	1.263	1.186	1.190	1.285	1.203	3.22
27) I IS2_1,4-Dichlorobenzene-d4	-----ISTD-----											
28) T Benzaldehyde			0.898	0.912	0.978	0.948	0.899	0.818	0.788	0.638	0.860	12.72
29) T Acetophenone		1.589	1.577	1.650	1.893	1.824	1.870	1.747	1.747	1.768	1.741	6.60
30) T m-Toluidine	1.244	1.367	1.393	1.487	1.744	1.664	1.674	1.496	1.471	1.307	1.485	11.17
31) T 2-Chloroaniline	1.384	1.444	1.446	1.512	1.712	1.671	1.714	1.593	1.604	1.617	1.570	7.48
32) I IS3_1,4-Dichlorobenzene-d4	-----ISTD-----											
33) T 1,4-Dioxane	0.543	0.422	0.505	0.477	0.474	0.466	0.438	0.440	0.428	0.445	0.464	8.14
34) T n-Decane		1.280	1.282	1.314	1.309	1.318	1.318	1.298	1.248	1.288	1.295	1.78
35) I IS1_Naphthalene-d8	-----ISTD-----											
36) T Naphthalene	1.072	1.058	1.049	1.054	1.035	1.025	1.093	1.026	1.017	1.094	1.052	2.61
37) T Benzoic Acid				0.098	0.139	0.176	0.222	0.225	0.233	0.243	*L	0.9987
38) T 4-Chloroaniline	0.098	0.106	0.105	0.106	0.107	0.109	0.116	0.112	0.110	0.119	0.109	5.43
39) T Hexachlorobutadiene	0.167	0.174	0.172	0.177	0.172	0.168	0.180	0.172	0.173	0.184	0.174	2.99
40) T p-Chloro-m-cresol	0.219	0.220	0.248	0.252	0.255	0.273	0.295	0.283	0.285	0.308	0.264	11.49
41) T 2-Methylnaphthalene	0.604	0.626	0.646	0.657	0.640	0.652	0.697	0.659	0.661	0.708	0.655	4.64
42) T 1-Methylnaphthalene	0.188	0.187	0.204	0.202	0.202	0.205	0.215	0.206	0.209	0.226	0.205	5.60
43) T Hexachlorocyclopentadiene			0.158	0.169	0.175	0.181	0.204	0.202	0.206	0.216	0.189	10.93
44) T 2,4,6-Trichlorophenol	0.146	0.149	0.164	0.175	0.183	0.193	0.214	0.206	0.211	0.227	0.187	15.12
45) T 2,4,5-Trichlorophenol	0.167	0.186	0.189	0.199	0.209	0.218	0.237	0.229	0.231	0.247	0.211	12.13

Response Factor Report SV103

Method Path : I:\8270\SV103\230515nical\
 Method File : FS230515nSV103.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Tue May 16 15:00:26 2023
 Response Via : Initial Calibration

Calibration Files

1.0 =ADPL1b.d 2.0 =ADPL2b.d 3.0 =ADPL3b.d 5.0 =ADPL4b.d 10 =ADPL5b.d 20 =ADPL6b.d 50 =ADPL7
 100 =ADPL8b.d 150 =ADPL9b.d 200 =ADPL10b.d

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
46) S 2-Fluorobiphenyl	0.710	0.728	0.736	0.753	0.736	0.750	0.796	0.750	0.753	0.809	0.752	3.96
47) T 2-Chloronaphthalene	0.607	0.614	0.625	0.636	0.631	0.647	0.689	0.647	0.649	0.703	0.645	4.74
48) T 2-Nitroaniline			0.156	0.167	0.181	0.199	0.228	0.220	0.221	0.243	0.202	15.45
49) T 1,4-Dinitrobenzene					0.076	0.087	0.101	0.099	0.101	0.109	0.096	12.49
50) T 1,3-Dinitrobenzene		0.065	0.075	0.082	0.090	0.103	0.118	0.113	0.115	0.124	*L	0.9978
51) T Dimethyl phthalate	0.659	0.672	0.712	0.720	0.740	0.754	0.816	0.760	0.757	0.832	0.742	7.45
52) T Acenaphthylene	0.856	0.917	0.925	0.965	0.987	1.025	1.093	1.021	1.016	1.108	0.991	7.92
53) T 2,6-Dinitrotoluene		0.114	0.124	0.136	0.147	0.158	0.176	0.166	0.168	0.184	0.152	15.72
54) T 1,2-Dinitrobenzene			0.054	0.058	0.062	0.066	0.076	0.071	0.072	0.078	0.067	13.05
55) I IS2_Naphthalene-d8	-----ISTD-----											
56) T a-Terpineol		0.206	0.202	0.217	0.230	0.239	0.247	0.243	0.245	0.248	0.231	7.74
57) T 3-Chloroaniline		0.109	0.108	0.117	0.122	0.121	0.119	0.115	0.113	0.110	0.115	4.59
58) T 2,6-Dichlorophenol	0.195	0.207	0.222	0.227	0.264	0.271	0.282	0.276	0.278	0.289	0.251	13.82
59) T 1-chloro-2-nitrobenzene		0.103	0.108	0.109	0.126	0.125	0.130	0.128	0.130	0.134	0.121	9.45
60) T Caprolactam			0.090	0.103	0.142	0.139	0.149	0.139	0.141	0.148	0.131	16.82
61) T 1,2,4,5-Tetrachlorobenzene		0.289	0.289	0.305	0.322	0.310	0.309	0.293	0.295	0.303	0.302	3.63
62) T Biphenyl	0.805	0.779	0.805	0.804	0.902	0.858	0.859	0.800	0.796	0.820	0.823	4.61
63) I IS1_Acenaphthene-d10	-----ISTD-----											
64) T 3-Nitroaniline			0.295	0.315	0.334	0.356	0.388	0.368	0.365	0.395	0.352	9.86
65) T Acenaphthene	1.188	1.164	1.165	1.156	1.134	1.122	1.193	1.137	1.132	1.213	1.160	2.59
66) T 2,4-Dinitrophenol				0.077	0.103	0.114	0.151	0.156	0.161	0.170	*L	0.9978
67) T Dibenzofuran	1.817	1.824	1.810	1.801	1.753	1.764	1.864	1.753	1.744	1.854	1.799	2.40
68) T 2,4-Dinitrotoluene		0.294	0.307	0.326	0.371	0.397	0.444	0.427	0.432	0.460	0.384	16.25
69) T 4-Nitrophenol			0.193	0.196	0.212	0.229	0.257	0.242	0.243	0.259	0.229	11.35
70) T 2,3,5,6-Tetrachlorophenol		0.256	0.267	0.274	0.296	0.314	0.356	0.342	0.346	0.369	0.313	13.48
71) T 2,3,4,6-Tetrachlorophenol		0.260	0.274	0.308	0.322	0.332	0.357	0.342	0.347	0.373	0.324	11.58
72) T Diethyl phthalate	1.192	1.290	1.345	1.364	1.410	1.428	1.541	1.430	1.439	1.573	1.401	8.00
73) T Fluorene	1.298	1.360	1.382	1.376	1.373	1.381	1.491	1.397	1.390	1.503	1.395	4.33
74) T 4-Chlorophenyl-phenylether	0.642	0.644	0.672	0.668	0.643	0.637	0.692	0.649	0.646	0.698	0.659	3.35
75) T 4-Nitroaniline			0.317	0.322	0.353	0.372	0.390	0.361	0.354	0.387	0.357	7.59
76) T 4,6-Dinitro-o-cresol			0.101	0.110	0.139	0.161	0.192	0.195	0.202	0.216	*L	0.9972
77) T NDPA/DPA	1.091	1.155	1.172	1.187	1.182	1.197	1.285	1.191	1.186	1.277	1.192	4.68
78) T Azobenzene	1.064	1.123	1.163	1.175	1.202	1.204	1.302	1.209	1.211	1.309	1.196	6.15
79) S 2,4,6-Tribromophenol		0.173	0.178	0.187	0.199	0.213	0.237	0.232	0.239	0.258	0.213	14.30
80) T 4-Bromophenyl-phenylether	0.358	0.369	0.389	0.385	0.387	0.388	0.416	0.393	0.399	0.436	0.392	5.62
81) T Hexachlorobenzene	0.451	0.471	0.468	0.469	0.474	0.467	0.500	0.477	0.484	0.526	0.479	4.34
82) T Pentachlorophenol			0.187	0.188	0.227	0.251	0.291	0.288	0.297	0.323	*L	0.9970
83) I IS2_Acenaphthene-d10	-----ISTD-----											
84) T Dichloran				0.097	0.126	0.130	0.152	0.160	0.164	0.180	0.144	19.34
85) T Pentachloronitrobenzene				0.091	0.136	0.137	0.148	0.146	0.148		0.135	16.38
86) I IS3_Acenaphthene-d10	-----ISTD-----											
87) T Atrazine		0.235	0.248	0.272	0.289	0.325	0.379	0.361	0.411	0.356	0.320	19.33
88) I IS1_Phenanthrene-d10	-----ISTD-----											
89) T Phenanthrene	1.143	1.133	1.129	1.124	1.081	1.069	1.136	1.058	1.041	1.111	1.102	3.34
90) T Anthracene	1.049	1.061	1.091	1.076	1.063	1.075	1.152	1.092	1.065	1.140	1.086	3.14

Response Factor Report SV103

Method Path : I:\8270\SV103\230515nical\
 Method File : FS230515nSV103.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Tue May 16 15:00:26 2023
 Response Via : Initial Calibration

Calibration Files

1.0 =ADPL1b.d 2.0 =ADPL2b.d 3.0 =ADPL3b.d 5.0 =ADPL4b.d 10 =ADPL5b.d 20 =ADPL6b.d 50 =ADPL7
 100 =ADPL8b.d 150 =ADPL9b.d 200 =ADPL10b.d

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
91) T Carbazole	0.998	0.960	1.012	1.015	1.025	1.026	1.086	1.004	0.993	1.055	1.017	3.41
92) T Di-n-butylphthalate	0.809	0.889	0.961	0.976	1.075	1.130	1.292	1.234	1.231	1.329	1.092	16.41
93) T Fluoranthene	1.117	1.117	1.134	1.118	1.155	1.156	1.244	1.170	1.150	1.209	1.157	3.63
94) T Benzidine		0.558	0.597	0.614	0.707	0.763	0.850	0.812	0.811	0.853	0.729	15.75
95) T Pyrene	1.257	1.218	1.244	1.219	1.251	1.244	1.327	1.227	1.188	1.268	1.244	2.99
96) S 4-Terphenyl-d14	0.900	0.946	0.933	0.892	0.920	0.925	0.986	0.923	0.908	0.973	0.931	3.26
97) T Butyl benzyl phthalate			0.318	0.344	0.414	0.460	0.557	0.542	0.540	0.583	*L	0.9980
98) I IS2_Phenanthrene-d10	-----ISTD-----											
99) T Diphenamid	0.308	0.314	0.351	0.377	0.460	0.445	0.464	0.475	0.467	0.501	0.416	17.20
100) I IS3_Phenanthrene-d10	-----ISTD-----											
101) T n-Octadecane		0.323	0.331	0.380	0.389	0.413	0.433	0.450	0.451	0.453	0.402	12.53
102) T Parathion				0.051	0.054	0.069	0.097	0.105	0.124		*Q	0.9986
103) T 3,3'-Dimethylbenzidine			0.339	0.385	0.453	0.574	0.711	0.711	0.663	0.636	*L	0.9961
104) I IS1_Chrysene-d12	-----ISTD-----											
105) T Benzo[a]anthracene	1.434	1.325	1.311	1.289	1.268	1.284	1.374	1.300	1.289	1.376	1.325	4.00
106) T 3,3'-Dichlorobenzidine		0.363	0.412	0.428	0.466	0.489	0.550	0.536	0.535	0.573	0.484	14.80
107) T Chrysene	1.576	1.388	1.347	1.344	1.279	1.263	1.323	1.232	1.208	1.306	1.326	7.80
108) T bis(2-Ethylhexyl)phthalate		0.478	0.575	0.619	0.742	0.815	0.966	0.933	0.935	1.013	*L	0.9978
109) T Di-n-octylphthalate			0.774	0.832	1.080	1.277	1.601	1.587	1.605	1.749	*L	0.9969
110) T Benzo(b)fluoranthene	1.216	1.218	1.233	1.201	1.241	1.282	1.379	1.335	1.315	1.444	1.286	6.26
111) T Benzo(k)fluoranthene	1.256	1.262	1.304	1.254	1.301	1.325	1.428	1.328	1.328	1.410	1.320	4.55
112) T Benzo(a)pyrene	0.971	0.975	1.055	1.041	1.084	1.124	1.231	1.177	1.172	1.262	1.109	9.12
113) I IS1_Perylene-d12	-----ISTD-----											
114) T Indeno(1,2,3-cd)pyrene	0.660	0.701	0.744	0.756	0.803	0.854	0.956	0.980	1.001	1.079	0.853	16.75
115) T Dibenzo[a,h]anthracene	0.847	0.877	0.909	0.926	0.978	1.020	1.128	1.134	1.145	1.265	1.023	13.58
116) T Benzo(g,h,i)perylene	0.914	0.921	0.961	0.991	0.998	1.038	1.126	1.122	1.131	1.214	1.042	9.77

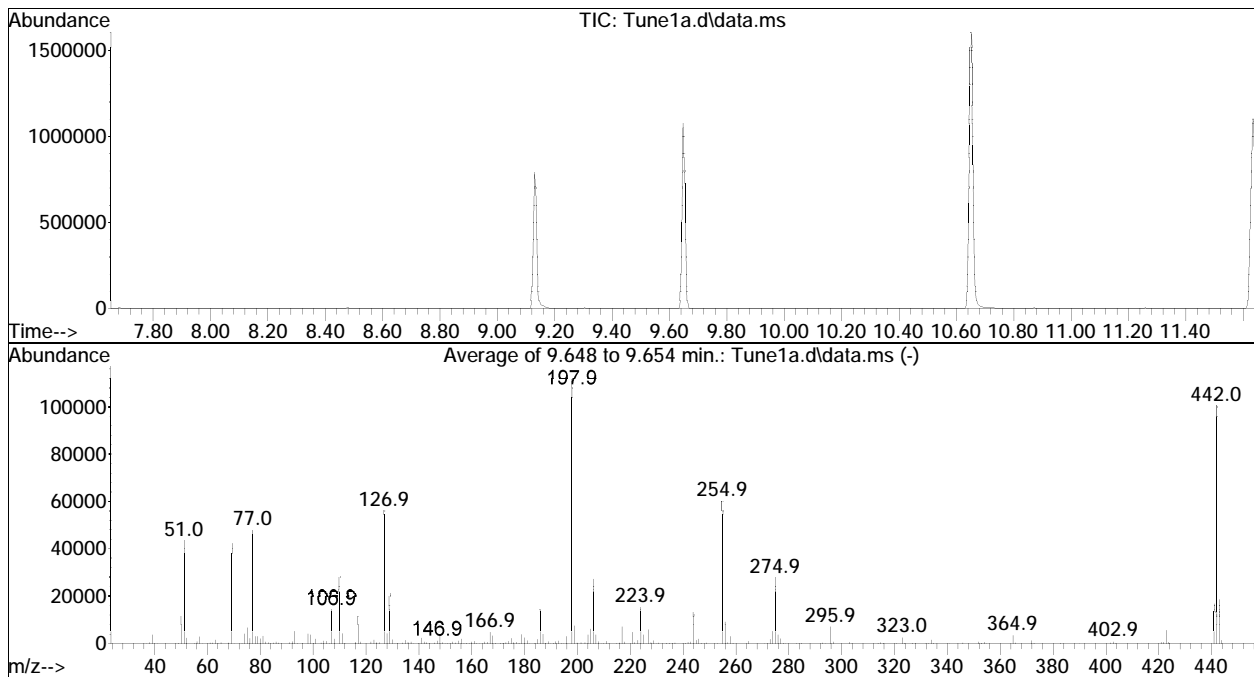
(#) = Out of Range

DFTPP

Data Path : I:\8270\SV103\230515nical\
 Data File : Tune1a.d
 Acq On : 15 May 2023 8:57 pm
 Operator : SV103:jg
 Sample : Tune1
 Misc : WG1779694,,
 ALS Vial : 41 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Tue May 16 15:00:26 2023

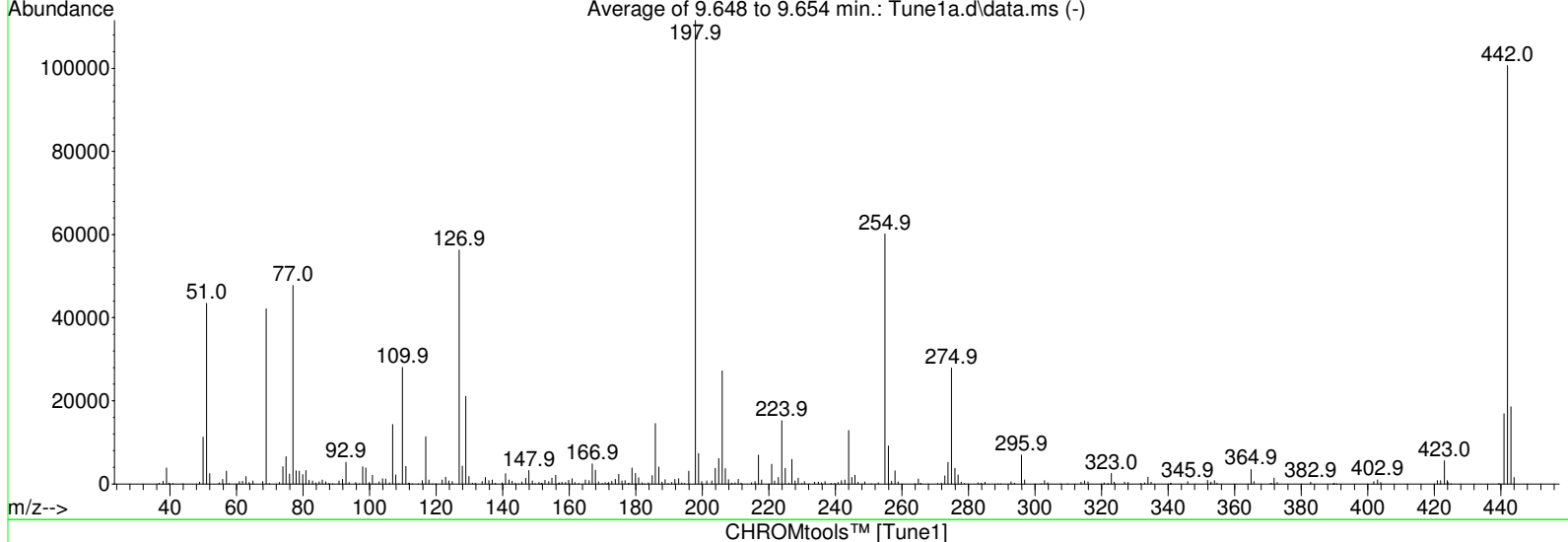
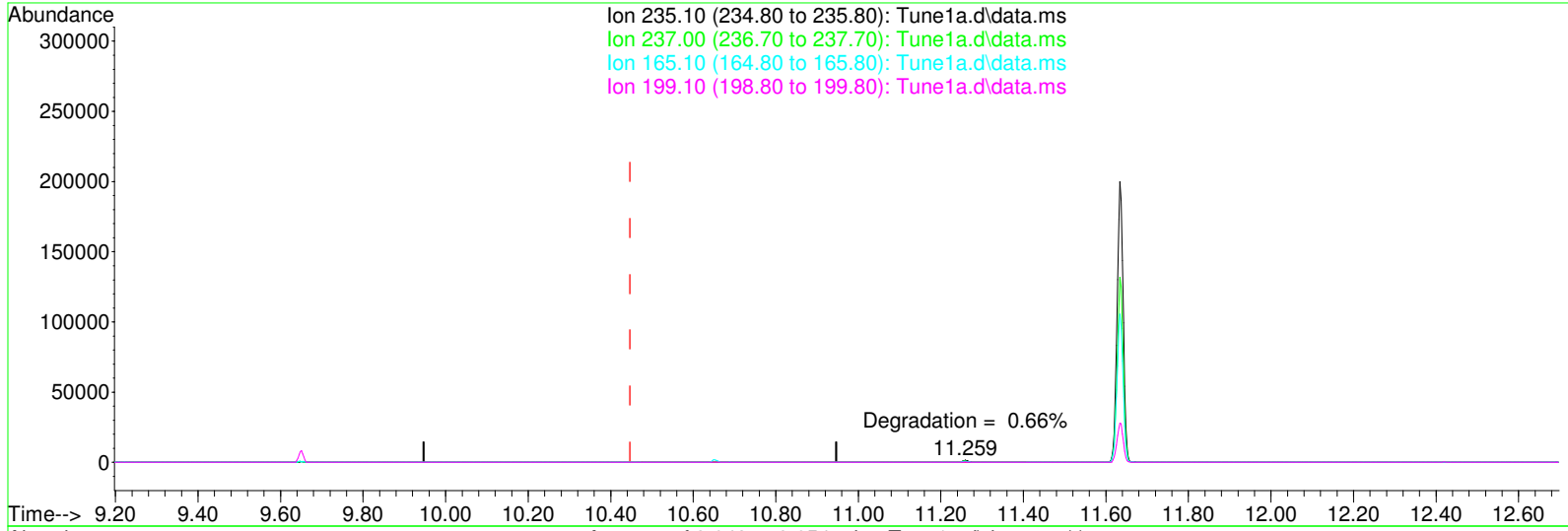


Spectrum Information: Average of 9.648 to 9.654 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.9	43448	PASS
68	69	0.00	2	1.3	564	PASS
69	69	0.20	100	100.0	42173	PASS
70	69	0.00	2	0.4	153	PASS
127	198	10	80	50.4	56243	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	111563	PASS
199	198	5	9	6.6	7311	PASS
275	198	10	60	25.0	27901	PASS
365	198	1	100	3.1	3492	PASS
441	442	0.01	24	16.8	16878	PASS
442	198	50	100	90.2	100640	PASS
443	442	15	24	18.5	18587	PASS

Data Path : I:\8270\SV103\230515nical\
Data File : Tunela.d
Acq On : 15 May 2023 8:57 pm
Operator : SV103:jg
Sample : Tunel
Misc : WG1779694,,
ALS Vial : 41 Sample Multiplier: 1

Quant Time: May 17 11:04:55 2023
Quant Method : I:\8270\SV103\230515nical\DftppSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 07 09:14:14 2017
Response via : Initial Calibration



(6) DDT (T)

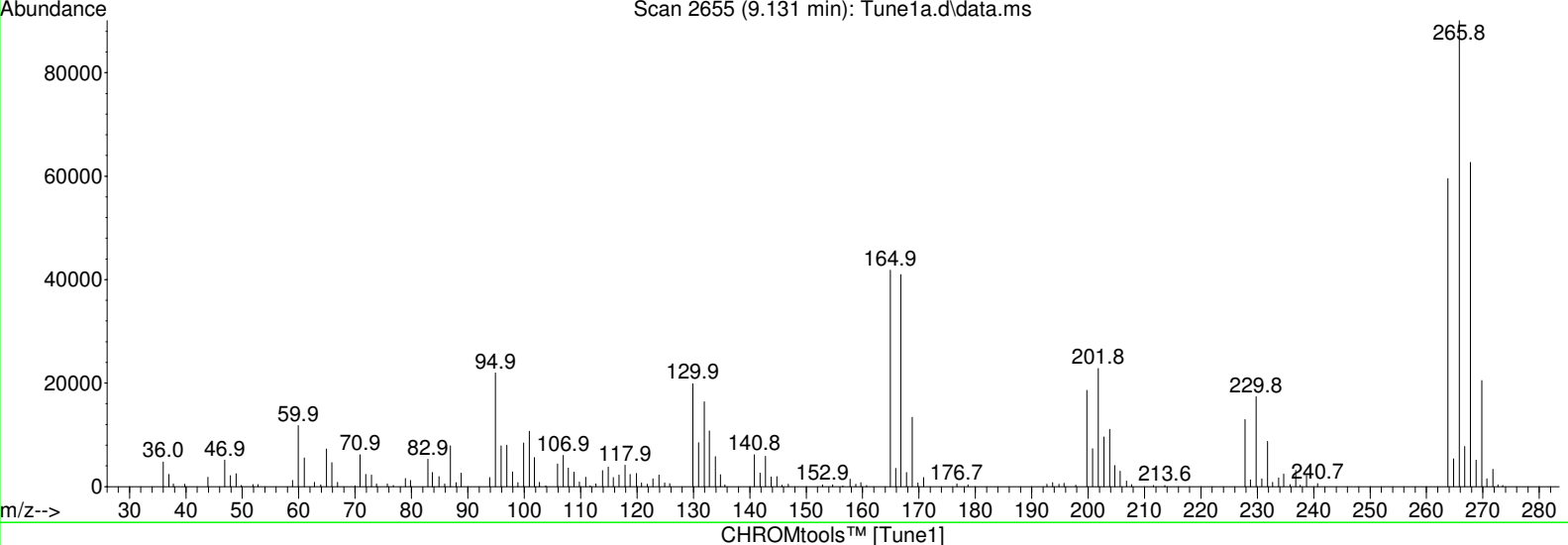
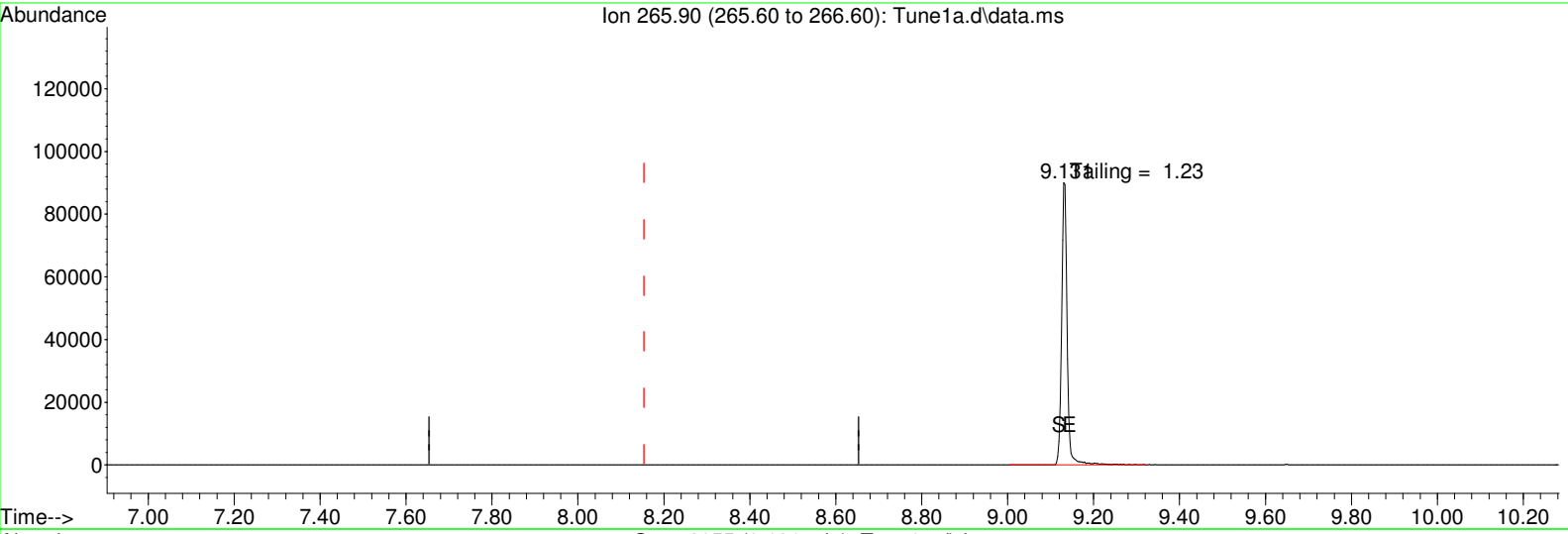
11.634min (+ 1.187) 0.00 M2

response 203874

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	59.90	0.00#
165.10	58.20	0.00#
199.10	14.20	0.00#

Data Path : I:\8270\SV103\230515nical\
 Data File : Tunela.d
 Acq On : 15 May 2023 8:57 pm
 Operator : SV103:jg
 Sample : Tunel
 Misc : WG1779694,,
 ALS Vial : 41 Sample Multiplier: 1

Quant Time: May 17 11:04:55 2023
 Quant Method : I:\8270\SV103\230515nical\DftppSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Nov 07 09:14:14 2017
 Response via : Initial Calibration



(1) Pentachlorophenol (T)

9.131min (+ 0.977) 0.00 M2

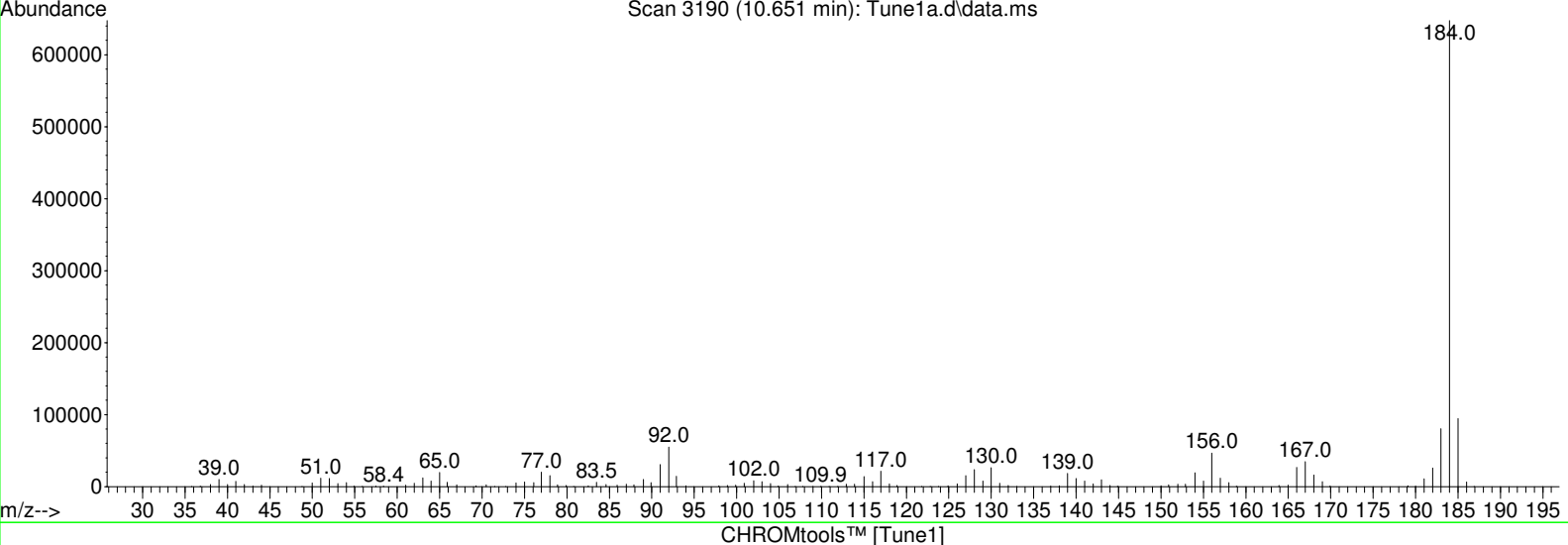
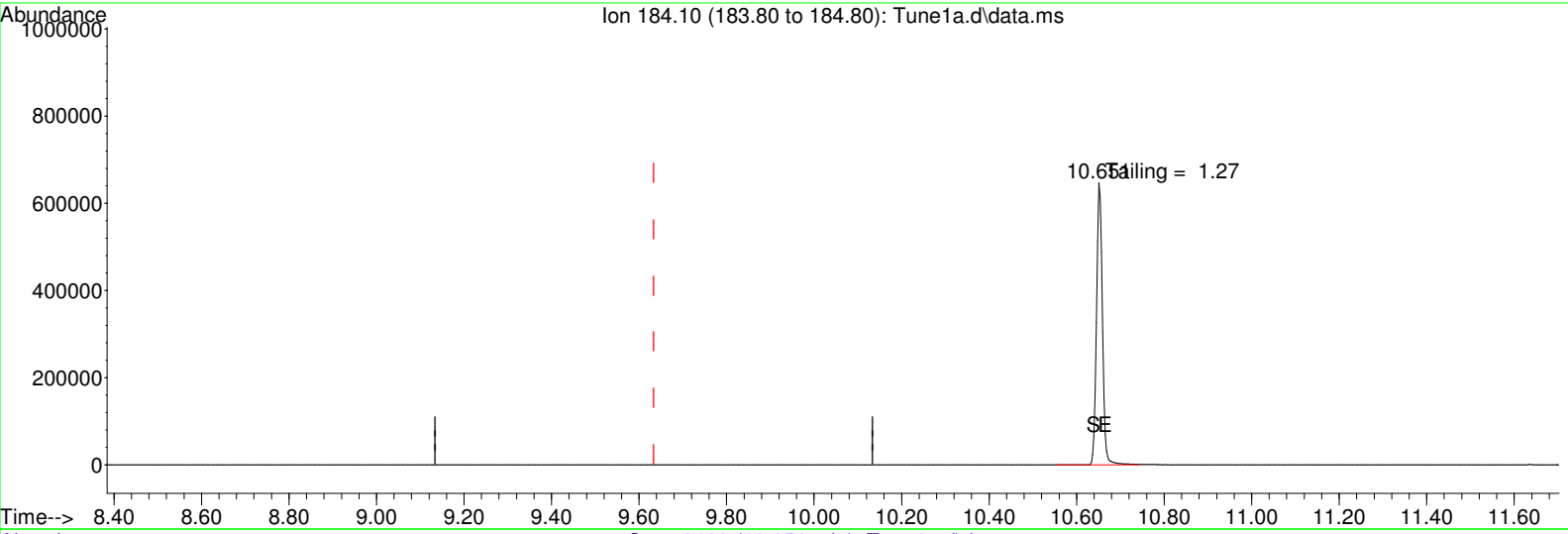
response 81033

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

CHROMtools™ [Tune1]

Data Path : I:\8270\SV103\230515nical\
 Data File : Tunela.d
 Acq On : 15 May 2023 8:57 pm
 Operator : SV103:jg
 Sample : Tunel
 Misc : WG1779694,,
 ALS Vial : 41 Sample Multiplier: 1

Quant Time: May 17 11:04:55 2023
 Quant Method : I:\8270\SV103\230515nical\DftppSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Nov 07 09:14:14 2017
 Response via : Initial Calibration



(3) Benzidine (T)

10.651min (+ 1.017) 0.00 M2

response 596007

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL10.d
 Acq On : 15 May 2023 9:20 pm
 Operator : SV103:jg
 Sample : IL1,32,,ABNL200 Lot# 9914
 Misc : WG1779694,,
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 12:59:58 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.909	152	141455	40.000	ug/ml	0.00
Standard Area 1 = 149101			Recovery =	94.87%		
35) IS1_Naphthalene-d8	6.153	136	543913	40.000	ug/ml	0.00
Standard Area 1 = 573599			Recovery =	94.82%		
63) IS1_Acenaphthene-d10	7.867	164	296521	40.000	ug/ml	0.00
Standard Area 1 = 309536			Recovery =	95.80%		
88) IS1_Phenanthrene-d10	9.304	188	604684	40.000	ug/ml	0.00
Standard Area 1 = 631294			Recovery =	95.78%		
104) IS1_Chrysene-d12	12.231	240	526476	40.000	ug/ml	0.01
Standard Area 1 = 581246			Recovery =	90.58%		
113) IS1_Perylene-d12	14.407	264	604777	40.000	ug/ml	0.00
Standard Area 1 = 674505			Recovery =	89.66%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.630	112	877476	229.806	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	459.61%#		
7) Phenol-d6	4.582	99	1082751	204.455	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	408.91%#		
19) Nitrobenzene-d5	5.454	82	922380	203.140	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	812.56%#		
46) 2-Fluorobiphenyl	7.224	172	2199376	203.277	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	813.11%#		
79) 2,4,6-Tribromophenol	8.637	330	383140	217.970	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	435.94%#		
96) 4-Terphenyl-d14	10.930	244	2942146	197.329	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	789.32%#		
Target Compounds						
2) n-Nitrosodimethylamine	2.252	74	556398	209.823	ug/ml#	94
3) Pyridine	2.280	79	927260	239.714	ug/ml	86
5) Aniline	4.590	93	1398436	201.240	ug/ml#	69
6) 2-Chlorophenol	4.704	128	1013069	204.242	ug/ml#	89
8) Phenol	4.596	94	1234617	204.689	ug/ml#	61
9) Bis(2-chloroethyl)ether	4.670	93	846650	202.141	ug/ml	91
10) 1,3-Dichlorobenzene	4.852	146	1123986	201.850	ug/ml	96
11) 1,4-Dichlorobenzene	4.926	146	1151333	203.996	ug/ml	96
12) 1,2-Dichlorobenzene	5.073	146	1104539	202.014	ug/ml	95
13) Benzyl alcohol	5.062	79	730645	207.702	ug/ml	91
14) Bis(2-chloroisopropyl)...	5.204	45	1350780	198.992	ug/ml#	89

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL10.d
 Acq On : 15 May 2023 9:20 pm
 Operator : SV103:jg
 Sample : IL1,32,,ABNL200 Lot# 9914
 Misc : WG1779694,,
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 12:59:58 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.184	108	868336	204.108	ug/ml	99
16) Hexachloroethane	5.403	117	408197	206.370	ug/ml	85
17) n-Nitrosodi-n-propylamine	5.332	70	611614	203.267	ug/ml#	94
18) 3-Methylphenol/4-Methy...	5.343	108	913033	202.104	ug/ml	98
20) Nitrobenzene	5.474	77	935390	203.538	ug/ml	90
21) Isophorone	5.718	82	1709607	204.977	ug/ml	95
22) 2-Nitrophenol	5.787	139	486530	210.765	ug/ml#	82
23) 2,4-Dimethylphenol	5.858	107	956723	204.705	ug/ml	93
24) Bis(2-chloroethoxy)met...	5.946	93	1063031	203.001	ug/ml	99
25) 2,4-Dichlorophenol	6.025	162	862180	204.057	ug/ml	95
26) 1,2,4-Trichlorobenzene	6.105	180	908572	203.434	ug/ml	97
36) Naphthalene	6.173	128	2973996	200.113	ug/ml	99
37) Benzoic Acid	6.005	105	661801	219.653	ug/ml	92
38) 4-Chloroaniline	6.238	65	323552	204.556	ug/ml#	54
39) Hexachlorobutadiene	6.318	225	501179	205.114	ug/ml	99
40) p-Chloro-m-cresol	6.727	107	838655	209.169	ug/ml	91
41) 2-Methylnaphthalene	6.852	142	1925406	203.237	ug/ml	96
42) 1-Methylnaphthalene	6.946	115	615715	210.552	ug/ml	73
43) Hexachlorocyclopentadiene	7.020	237	588611	211.811	ug/ml	97
44) 2,4,6-Trichlorophenol	7.136	196	618155	212.198	ug/ml	94
45) 2,4,5-Trichlorophenol	7.165	196	670951	208.127	ug/ml	98
47) 2-Chloronaphthalene	7.324	162	1912463	204.226	ug/ml	96
48) 2-Nitroaniline	7.435	138	659542	212.932	ug/ml#	79
49) 1,4-Dinitrobenzene	7.568	168	297200	215.947	ug/ml#	70
50) 1,3-Dinitrobenzene	7.645	168	336541	209.317	ug/ml#	72
51) Dimethyl phthalate	7.639	163	2262529	203.815	ug/ml	100
52) Acenaphthylene	7.724	152	3013017	202.706	ug/ml	98
53) 2,6-Dinitrotoluene	7.682	165	499770	208.703	ug/ml#	79
54) 1,2-Dinitrobenzene	7.730	168	212236	204.092	ug/ml#	77
64) 3-Nitroaniline	7.838	138	584911	203.369	ug/ml	85
65) Acenaphthene	7.898	154	1798191	203.372	ug/ml	95
66) 2,4-Dinitrophenol	7.938	184	251409	224.476	ug/ml#	84
67) Dibenzofuran	8.068	168	2748780	198.885	ug/ml	93
68) 2,4-Dinitrotoluene	8.071	165	682360	207.191	ug/ml#	78
69) 4-Nitrophenol	8.020	65	384131	202.141	ug/ml#	77
70) 2,3,5,6-Tetrachlorophenol	8.153	232	547547	207.545	ug/ml	97
71) 2,3,4,6-Tetrachlorophenol	8.196	232	552710	208.710	ug/ml	98
72) Diethyl phthalate	8.327	149	2332663	204.091	ug/ml	98
73) Fluorene	8.401	166	2228089	201.527	ug/ml	97
74) 4-Chlorophenyl phenyl ...	8.415	204	1034725	201.626	ug/ml#	88

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL10.d
 Acq On : 15 May 2023 9:20 pm
 Operator : SV103:jg
 Sample : IL1,32,,ABNL200 Lot# 9914
 Misc : WG1779694,,
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 12:59:58 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	8.440	138	573795	198.228	ug/ml#	79
76) 4,6-Dinitro-o-cresol	8.469	198	320402	225.399	ug/ml#	75
77) NDPA/DPA	8.534	169	1893112	198.710	ug/ml	94
78) Azobenzene	8.568	77	1940351	200.861	ug/ml#	91
80) 4-Bromophenyl phenyl e...	8.887	248	646342	209.682	ug/ml#	84
81) Hexachlorobenzene	8.941	284	779676	210.405	ug/ml#	89
82) Pentachlorophenol	9.134	266	478874	221.688	ug/ml	98
89) Phenanthrene	9.330	178	3358655	195.651	ug/ml	98
90) Anthracene	9.381	178	3445636	197.930	ug/ml	98
91) Carbazole	9.546	167	3191009	194.289	ug/ml	97
92) Di-n-butylphthalate	9.927	149	4017584	205.763	ug/ml	99
93) Fluoranthene	10.498	202	3656325	194.271	ug/ml	98
94) Benzidine	10.654	184	2580312	200.764	ug/ml	98
95) Pyrene	10.731	202	3833480	191.129	ug/ml	98
97) Butyl benzyl phthalate	11.543	149	1763076	209.457	ug/ml	89
105) Benzo(a)anthracene	12.217	228	3623464	200.384	ug/ml	98
106) 3,3'-Dichlorobenzidine	12.220	252	1508054	208.980	ug/ml	97
107) Chrysene	12.271	228	3437459	197.455	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	12.379	149	2665844	209.799	ug/ml	100
109) Di-n-octylphthalate	13.393	149	4604560	218.093	ug/ml#	94
110) Benzo(b)fluoranthene	13.831	252	3800072	209.418	ug/ml	98
111) Benzo(k)fluoranthene	13.882	252	3711194	196.690	ug/ml	98
112) Benzo(a)pyrene	14.331	252	3321020	205.269	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	16.061	276	3262634	225.317	ug/mL	98
115) Dibenzo(a,h)anthracene	16.112	278	3825104	221.802	ug/ml	97
116) Benzo(ghi)perylene	16.448	276	3672272	215.785	ug/ml	93

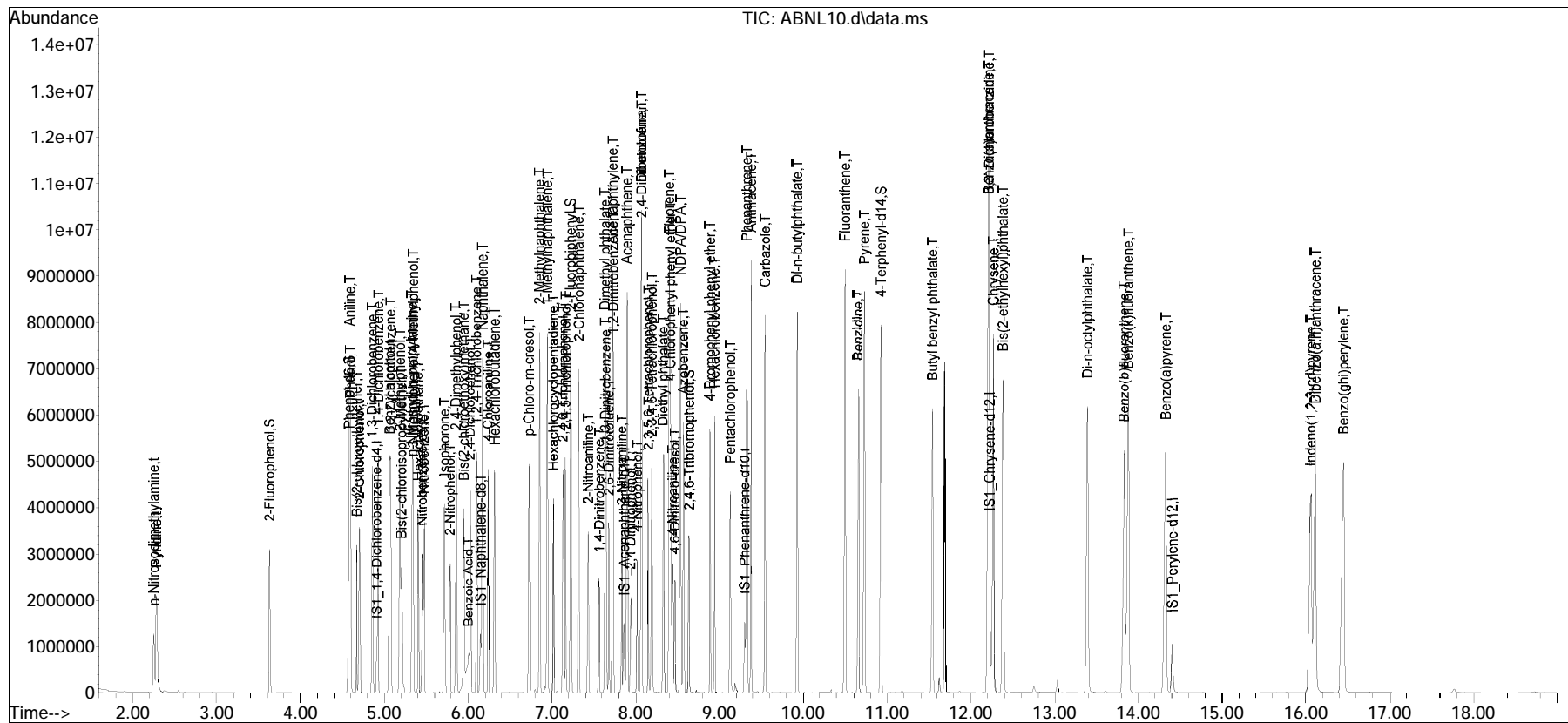
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL10.d
 Acq On : 15 May 2023 9:20 pm
 Operator : SV103:jg
 Sample : IL1,32,,ABNL200 Lot# 9914
 Misc : WG1779694,,
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 12:59:58 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

Sub List : ABNical_REV1 - ABN ical sublistBNL7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ABNL10.d Operator : SV103:jg
Date Inj'd : 5/15/2023 9:20 pm Instrument : SV103
Sample : IL1,32,,ABNL200 Lot# 9914 Quant Date : 5/16/2023 12:52 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL9.d
 Acq On : 15 May 2023 9:43 pm
 Operator : SV103:jg
 Sample : IL2,32,,ABNL150 Lot# 9942
 Misc : WG1779694,,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 13:06:46 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.909	152	173404	40.000	ug/ml	0.00
Standard Area 1 = 149101			Recovery =	116.30%		
35) IS1_Naphthalene-d8	6.150	136	655273	40.000	ug/ml	0.00
Standard Area 1 = 573599			Recovery =	114.24%		
63) IS1_Acenaphthene-d10	7.864	164	349649	40.000	ug/ml	0.00
Standard Area 1 = 309536			Recovery =	112.96%		
88) IS1_Phenanthrene-d10	9.304	188	702425	40.000	ug/ml	0.00
Standard Area 1 = 631294			Recovery =	111.27%		
104) IS1_Chrysene-d12	12.228	240	619457	40.000	ug/ml	0.00
Standard Area 1 = 581246			Recovery =	106.57%		
113) IS1_Perylene-d12	14.407	264	707744	40.000	ug/ml	0.00
Standard Area 1 = 674505			Recovery =	104.93%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.630	112	743708	158.887	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	317.77%#		
7) Phenol-d6	4.582	99	923332	142.228	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	284.46%#		
19) Nitrobenzene-d5	5.454	82	784648	140.968	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	563.87%#		
46) 2-Fluorobiphenyl	7.221	172	1850339	141.954	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	567.82%#		
79) 2,4,6-Tribromophenol	8.634	330	312811	150.919	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	301.84%#		
96) 4-Terphenyl-d14	10.927	244	2392778	138.152	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	552.61%#		
Target Compounds						
2) n-Nitrosodimethylamine	2.249	74	461047	141.831	ug/ml	96
3) Pyridine	2.280	79	764531	161.230	ug/ml	87
5) Aniline	4.587	93	1189750	139.665	ug/ml#	68
6) 2-Chlorophenol	4.704	128	862715	141.883	ug/ml#	89
8) Phenol	4.596	94	1055775	142.788	ug/ml#	61
9) Bis(2-chloroethyl)ether	4.667	93	720638	140.355	ug/ml	91
10) 1,3-Dichlorobenzene	4.852	146	953570	139.694	ug/ml	96
11) 1,4-Dichlorobenzene	4.926	146	976683	141.167	ug/ml	95
12) 1,2-Dichlorobenzene	5.073	146	938966	140.091	ug/ml	95
13) Benzyl alcohol	5.059	79	619424	143.642	ug/ml	91
14) Bis(2-chloroisopropyl)...	5.201	45	1156852	139.024	ug/ml#	90

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL9.d
 Acq On : 15 May 2023 9:43 pm
 Operator : SV103:jg
 Sample : IL2,32,,ABNL150 Lot# 9942
 Misc : WG1779694,,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 13:06:46 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.184	108	734868	140.909	ug/ml	98
16) Hexachloroethane	5.403	117	343111	141.505	ug/ml	84
17) n-Nitrosodi-n-propylamine	5.329	70	518953	140.694	ug/ml#	93
18) 3-Methylphenol/4-Methy...	5.340	108	774987	139.940	ug/ml	98
20) Nitrobenzene	5.474	77	791883	140.564	ug/ml	91
21) Isophorone	5.716	82	1436669	140.516	ug/ml	95
22) 2-Nitrophenol	5.787	139	423000	149.482	ug/ml#	82
23) 2,4-Dimethylphenol	5.855	107	812071	141.741	ug/ml	92
24) Bis(2-chloroethoxy)met...	5.946	93	895017	139.426	ug/ml	99
25) 2,4-Dichlorophenol	6.025	162	733734	141.661	ug/ml	95
26) 1,2,4-Trichlorobenzene	6.105	180	773860	141.347	ug/ml	98
36) Naphthalene	6.173	128	2498820	139.565	ug/ml	99
37) Benzoic Acid	5.997	105	573566	158.016	ug/ml	91
38) 4-Chloroaniline	6.236	65	269527	141.441	ug/ml#	51
39) Hexachlorobutadiene	6.315	225	424990	144.373	ug/ml	98
40) p-Chloro-m-cresol	6.727	107	699914	144.899	ug/ml	91
41) 2-Methylnaphthalene	6.852	142	1623173	142.217	ug/ml	96
42) 1-Methylnaphthalene	6.946	115	513286	145.695	ug/ml	73
43) Hexachlorocyclopentadiene	7.020	237	505168	150.891	ug/ml	96
44) 2,4,6-Trichlorophenol	7.136	196	518028	147.606	ug/ml	95
45) 2,4,5-Trichlorophenol	7.165	196	567113	146.021	ug/ml	97
47) 2-Chloronaphthalene	7.324	162	1594049	141.295	ug/ml	96
48) 2-Nitroaniline	7.432	138	543684	145.698	ug/ml#	79
49) 1,4-Dinitrobenzene	7.565	168	247254	149.124	ug/ml#	70
50) 1,3-Dinitrobenzene	7.642	168	281574	145.367	ug/ml#	71
51) Dimethyl phthalate	7.636	163	1859387	139.033	ug/ml	100
52) Acenaphthylene	7.724	152	2496676	139.423	ug/ml	99
53) 2,6-Dinitrotoluene	7.679	165	412422	142.958	ug/ml#	80
54) 1,2-Dinitrobenzene	7.727	168	176056	140.529	ug/ml#	77
64) 3-Nitroaniline	7.838	138	478562	141.110	ug/ml	86
65) Acenaphthene	7.898	154	1484848	142.417	ug/ml	95
66) 2,4-Dinitrophenol	7.935	184	211544	160.182	ug/ml#	83
67) Dibenzofuran	8.068	168	2286167	140.279	ug/ml	92
68) 2,4-Dinitrotoluene	8.068	165	565790	145.692	ug/ml#	78
69) 4-Nitrophenol	8.017	65	318728	142.239	ug/ml#	77
70) 2,3,5,6-Tetrachlorophenol	8.151	232	453912	145.911	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	8.193	232	454604	145.580	ug/ml	99
72) Diethyl phthalate	8.327	149	1887310	140.035	ug/ml	98
73) Fluorene	8.401	166	1821981	139.755	ug/ml	96
74) 4-Chlorophenyl phenyl ...	8.412	204	847194	140.000	ug/ml#	88

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL9.d
 Acq On : 15 May 2023 9:43 pm
 Operator : SV103:jg
 Sample : IL2,32,,ABNL150 Lot# 9942
 Misc : WG1779694,,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 13:06:46 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	8.435	138	464172	135.991	ug/ml#	80
76) 4,6-Dinitro-o-cresol	8.466	198	264953	158.070	ug/ml#	75
77) NDPA/DPA	8.531	169	1554739	138.396	ug/ml	94
78) Azobenzene	8.568	77	1587209	139.339	ug/ml#	91
80) 4-Bromophenyl phenyl e...	8.887	248	523284	143.966	ug/ml#	84
81) Hexachlorobenzene	8.941	284	635013	145.328	ug/ml#	89
82) Pentachlorophenol	9.134	266	389041	152.735	ug/ml	97
89) Phenanthrene	9.330	178	2742850	137.546	ug/ml	98
90) Anthracene	9.381	178	2804632	138.691	ug/ml	98
91) Carbazole	9.546	167	2614383	137.031	ug/ml	97
92) Di-n-butylphthalate	9.924	149	3242320	142.951	ug/ml	99
93) Fluoranthene	10.495	202	3028964	138.544	ug/ml	98
94) Benzidine	10.654	184	2136532	143.104	ug/ml	98
95) Pyrene	10.728	202	3128061	134.257	ug/ml	98
97) Butyl benzyl phthalate	11.540	149	1422325	145.462	ug/ml	89
105) Benzo(a)anthracene	12.214	228	2994397	140.739	ug/ml	98
106) 3,3'-Dichlorobenzidine	12.217	252	1243740	146.482	ug/ml#	97
107) Chrysene	12.268	228	2805363	136.958	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	12.379	149	2171635	145.252	ug/ml	100
109) Di-n-octylphthalate	13.390	149	3728411	150.087	ug/ml#	94
110) Benzo(b)fluoranthene	13.828	252	3053845	143.033	ug/ml	98
111) Benzo(k)fluoranthene	13.873	252	3084365	138.932	ug/ml	98
112) Benzo(a)pyrene	14.325	252	2722382	143.011	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	16.050	276	2655604	156.714	ug/mL	98
115) Dibenzo(a,h)anthracene	16.107	278	3037921	150.528	ug/ml	98
116) Benzo(ghi)perylene	16.439	276	3002496	150.761	ug/ml	93

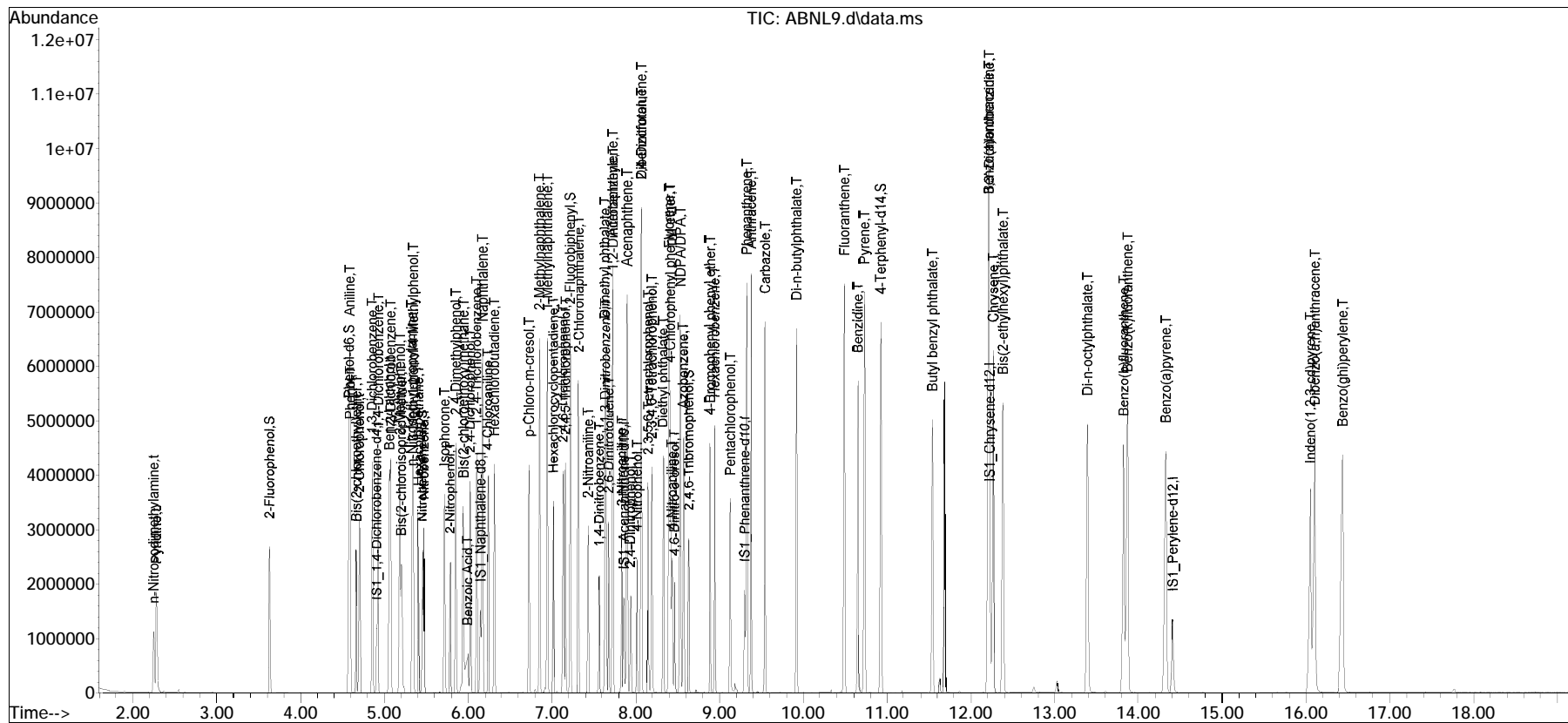
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL9.d
 Acq On : 15 May 2023 9:43 pm
 Operator : SV103:jg
 Sample : IL2,32,,ABNL150 Lot# 9942
 Misc : WG1779694,,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 13:06:46 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

Sub List : ABNical_REV1 - ABN ical sublistBNL7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ABNL9.d Operator : SV103:jg
Date Inj'd : 5/15/2023 9:43 pm Instrument : SV103
Sample : IL2,32,,ABNL150 Lot# 9942 Quant Date : 5/16/2023 12:52 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL8.d
 Acq On : 15 May 2023 10:07 pm
 Operator : SV103:jg
 Sample : IL3,32,,ABNL100 Lot# 9943
 Misc : WG1779694,,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 13:05:57 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.909	152	178739	40.000	ug/ml	# 0.00
Standard Area 1 = 149101			Recovery =	119.88%		
35) IS1_Naphthalene-d8	6.150	136	679303	40.000	ug/ml	0.00
Standard Area 1 = 573599			Recovery =	118.43%		
63) IS1_Acenaphthene-d10	7.864	164	361749	40.000	ug/ml	0.00
Standard Area 1 = 309536			Recovery =	116.87%		
88) IS1_Phenanthrene-d10	9.304	188	721655	40.000	ug/ml	0.00
Standard Area 1 = 631294			Recovery =	114.31%		
104) IS1_Chrysene-d12	12.225	240	642598	40.000	ug/ml	0.00
Standard Area 1 = 581246			Recovery =	110.56%		
113) IS1_Perylene-d12	14.407	264	744409	40.000	ug/ml	0.00
Standard Area 1 = 674505			Recovery =	110.36%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.630	112	512396	106.202	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	212.40%#		
7) Phenol-d6	4.579	99	642903	96.076	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	192.15%#		
19) Nitrobenzene-d5	5.451	82	540888	94.274	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	377.10%#		
46) 2-Fluorobiphenyl	7.221	172	1274332	94.306	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	377.22%#		
79) 2,4,6-Tribromophenol	8.631	330	210036	97.945	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	195.89%#		
96) 4-Terphenyl-d14	10.924	244	1664639	93.551	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	374.20%#		
Target Compounds						
2) n-Nitrosodimethylamine	2.249	74	322896	96.367	ug/ml	96
3) Pyridine	2.280	79	540089	110.498	ug/ml	87
5) Aniline	4.587	93	830101	94.537	ug/ml#	69
6) 2-Chlorophenol	4.704	128	598702	95.524	ug/ml#	88
8) Phenol	4.590	94	730980	95.911	ug/ml#	60
9) Bis(2-chloroethyl)ether	4.667	93	500055	94.486	ug/ml	91
10) 1,3-Dichlorobenzene	4.852	146	663646	94.320	ug/ml	96
11) 1,4-Dichlorobenzene	4.926	146	676530	94.865	ug/ml	96
12) 1,2-Dichlorobenzene	5.071	146	651270	94.267	ug/ml	95
13) Benzyl alcohol	5.056	79	424995	95.613	ug/ml	91
14) Bis(2-chloroisopropyl)...	5.201	45	805057	93.859	ug/ml#	89

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL8.d
 Acq On : 15 May 2023 10:07 pm
 Operator : SV103:jg
 Sample : IL3,32,,ABNL100 Lot# 9943
 Misc : WG1779694,,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 13:05:57 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.181	108	507737	94.452	ug/ml	98
16) Hexachloroethane	5.403	117	238985	95.620	ug/ml	85
17) n-Nitrosodi-n-propylamine	5.326	70	360021	94.693	ug/ml	94
18) 3-Methylphenol/4-Methy...	5.338	108	537340	94.132	ug/ml	97
20) Nitrobenzene	5.471	77	550401	94.783	ug/ml	90
21) Isophorone	5.713	82	994293	94.346	ug/ml	95
22) 2-Nitrophenol	5.784	139	289464	99.239	ug/ml#	83
23) 2,4-Dimethylphenol	5.852	107	558367	94.550	ug/ml	92
24) Bis(2-chloroethoxy)met...	5.943	93	619585	93.638	ug/ml	99
25) 2,4-Dichlorophenol	6.022	162	504780	94.548	ug/ml	95
26) 1,2,4-Trichlorobenzene	6.102	180	530018	93.919	ug/ml	97
36) Naphthalene	6.170	128	1743045	93.910	ug/ml	100
37) Benzoic Acid	5.977	105	382051	101.531	ug/ml	92
38) 4-Chloroaniline	6.236	65	190386	96.376	ug/ml#	56
39) Hexachlorobutadiene	6.315	225	292777	95.941	ug/ml	99
40) p-Chloro-m-cresol	6.727	107	480146	95.885	ug/ml	90
41) 2-Methylnaphthalene	6.849	142	1119604	94.626	ug/ml	96
42) 1-Methylnaphthalene	6.946	115	350597	95.996	ug/ml#	71
43) Hexachlorocyclopentadiene	7.020	237	342624	98.720	ug/ml	97
44) 2,4,6-Trichlorophenol	7.133	196	350475	96.331	ug/ml	96
45) 2,4,5-Trichlorophenol	7.165	196	388773	96.561	ug/ml	97
47) 2-Chloronaphthalene	7.321	162	1098357	93.914	ug/ml	96
48) 2-Nitroaniline	7.429	138	373738	96.612	ug/ml#	79
49) 1,4-Dinitrobenzene	7.562	168	167761	97.601	ug/ml#	71
50) 1,3-Dinitrobenzene	7.639	168	191843	95.538	ug/ml#	72
51) Dimethyl phthalate	7.633	163	1290431	93.077	ug/ml	100
52) Acenaphthylene	7.722	152	1734478	93.433	ug/ml	98
53) 2,6-Dinitrotoluene	7.676	165	281771	94.215	ug/ml#	80
54) 1,2-Dinitrobenzene	7.722	168	121162	93.291	ug/ml#	77
64) 3-Nitroaniline	7.832	138	333170	94.953	ug/ml	85
65) Acenaphthene	7.895	154	1027832	95.285	ug/ml	94
66) 2,4-Dinitrophenol	7.932	184	140997	103.192	ug/ml#	84
67) Dibenzofuran	8.065	168	1585809	94.050	ug/ml	91
68) 2,4-Dinitrotoluene	8.065	165	386471	96.188	ug/ml#	78
69) 4-Nitrophenol	8.014	65	219138	94.524	ug/ml#	77
70) 2,3,5,6-Tetrachlorophenol	8.151	232	309734	96.234	ug/ml	97
71) 2,3,4,6-Tetrachlorophenol	8.193	232	308939	95.624	ug/ml	99
72) Diethyl phthalate	8.324	149	1293584	92.771	ug/ml	98
73) Fluorene	8.398	166	1263181	93.651	ug/ml	96
74) 4-Chlorophenyl phenyl ...	8.412	204	586573	93.690	ug/ml#	87

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL8.d
 Acq On : 15 May 2023 10:07 pm
 Operator : SV103:jg
 Sample : IL3,32,,ABNL100 Lot# 9943
 Misc : WG1779694,,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 13:05:57 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	8.429	138	326124	92.350	ug/ml#	79
76) 4,6-Dinitro-o-cresol	8.460	198	176745	101.918	ug/ml#	75
77) NDPA/DPA	8.529	169	1077498	92.706	ug/ml	94
78) Azobenzene	8.565	77	1093409	92.778	ug/ml#	91
80) 4-Bromophenyl phenyl e...	8.884	248	355645	94.572	ug/ml#	85
81) Hexachlorobenzene	8.938	284	431071	95.354	ug/ml#	89
82) Pentachlorophenol	9.131	266	260672	98.915	ug/ml	98
89) Phenanthrene	9.327	178	1908435	93.152	ug/ml	99
90) Anthracene	9.378	178	1970425	94.842	ug/ml	98
91) Carbazole	9.543	167	1811257	92.406	ug/ml	97
92) Di-n-butylphthalate	9.924	149	2226289	95.540	ug/ml	99
93) Fluoranthene	10.492	202	2110751	93.972	ug/ml	98
94) Benzidine	10.651	184	1464466	95.476	ug/ml	98
95) Pyrene	10.725	202	2213892	92.489	ug/ml	99
97) Butyl benzyl phthalate	11.538	149	977649	97.321	ug/ml	89
105) Benzo(a)anthracene	12.211	228	2089054	94.651	ug/ml	98
106) 3,3'-Dichlorobenzidine	12.211	252	861204	97.776	ug/ml#	97
107) Chrysene	12.262	228	1978758	93.124	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	12.376	149	1498985	96.651	ug/ml	99
109) Di-n-octylphthalate	13.390	149	2550220	98.962	ug/ml#	94
110) Benzo(b)fluoranthene	13.825	252	2144254	96.814	ug/ml	98
111) Benzo(k)fluoranthene	13.870	252	2133318	92.632	ug/ml	99
112) Benzo(a)pyrene	14.319	252	1890964	95.758	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	16.044	276	1823316	102.299	ug/mL	98
115) Dibenzo(a,h)anthracene	16.101	278	2111188	99.456	ug/ml	98
116) Benzo(ghi)perylene	16.431	276	2088821	99.718	ug/ml	93

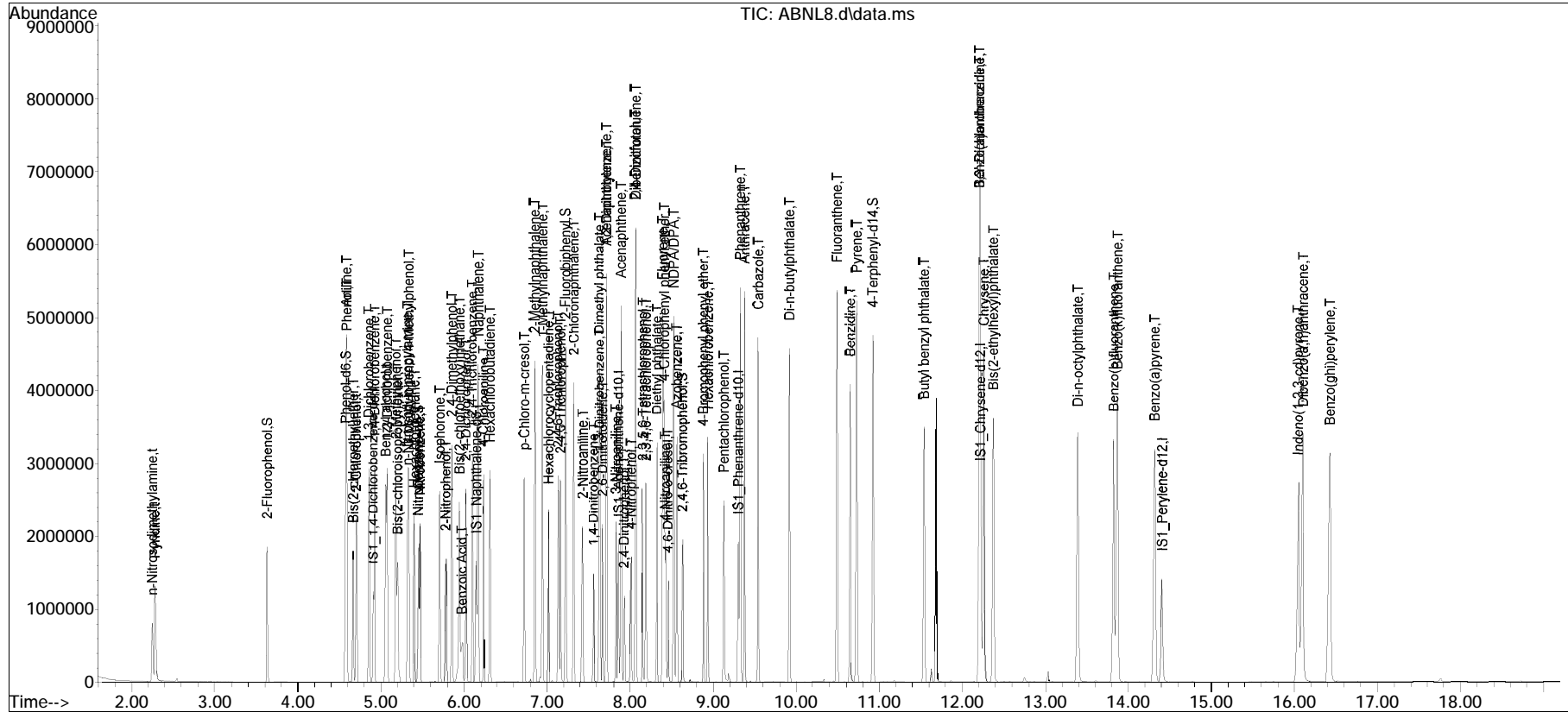
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL8.d
 Acq On : 15 May 2023 10:07 pm
 Operator : SV103:jg
 Sample : IL3,32,,ABNL100 Lot# 9943
 Misc : WG1779694,,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 13:05:57 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

Sub List : ABNical_REV1 - ABN ical sublistBNL7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ABNL8.d Operator : SV103:jg
Date Inj'd : 5/15/2023 10:07 pm Instrument : SV103
Sample : IL3,32,,ABNL100 Lot# 9943 Quant Date : 5/16/2023 12:52 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL7.d
 Acq On : 15 May 2023 10:30 pm
 Operator : SV103:jg
 Sample : IL4,32,,ABNL50 Lot# 9944
 Misc : WG1779694,,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 16 13:05:09 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.909	152	149101	40.000	ug/ml	0.00
Standard Area 1 = 149101			Recovery = 100.00%			
35) IS1_Naphthalene-d8	6.147	136	573599	40.000	ug/ml	0.00
Standard Area 1 = 573599			Recovery = 100.00%			
63) IS1_Acenaphthene-d10	7.861	164	309536	40.000	ug/ml	0.00
Standard Area 1 = 309536			Recovery = 100.00%			
88) IS1_Phenanthrene-d10	9.301	188	631294	40.000	ug/ml	0.00
Standard Area 1 = 631294			Recovery = 100.00%			
104) IS1_Chrysene-d12	12.220	240	581246	40.000	ug/ml	0.00
Standard Area 1 = 581246			Recovery = 100.00%			
113) IS1_Perylene-d12	14.405	264	674505	40.000	ug/ml	0.00
Standard Area 1 = 674505			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.627	112	223870	55.624	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 111.25%#			
7) Phenol-d6	4.573	99	279102	50.000	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 100.00%			
19) Nitrobenzene-d5	5.448	82	239302	50.000	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 200.00%#			
46) 2-Fluorobiphenyl	7.219	172	570505	50.000	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 200.00%#			
79) 2,4,6-Tribromophenol	8.628	330	91746	50.000	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 100.00%			
96) 4-Terphenyl-d14	10.921	244	778272	49.998	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 199.99%#			
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	2.249	74	141286	50.548	ug/ml	96
3) Pyridine	2.280	79	236968	58.119	ug/ml	87
5) Aniline	4.585	93	366236	50.000	ug/ml#	69
6) 2-Chlorophenol	4.701	128	261413	50.000	ug/ml#	89
8) Phenol	4.587	94	318216	50.052	ug/ml#	59
9) Bis(2-chloroethyl)ether	4.664	93	220447	49.934	ug/ml	91
10) 1,3-Dichlorobenzene	4.852	146	293471	50.000	ug/ml	96
11) 1,4-Dichlorobenzene	4.923	146	297449	50.000	ug/ml	96
12) 1,2-Dichlorobenzene	5.071	146	288159	50.000	ug/ml	95
13) Benzyl alcohol	5.053	79	185395	50.000	ug/ml	92
14) Bis(2-chloroisopropyl)...	5.198	45	357751	50.000	ug/ml#	70

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL7.d
 Acq On : 15 May 2023 10:30 pm
 Operator : SV103:jg
 Sample : IL4,32,,ABNL50 Lot# 9944
 Misc : WG1779694,,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 16 13:05:09 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.178	108	225005	50.177	ug/ml	98
16) Hexachloroethane	5.403	117	104245	50.000	ug/ml	84
17) n-Nitrosodi-n-propylamine	5.323	70	158554	49.992	ug/ml#	94
18) 3-Methylphenol/4-Methy...	5.335	108	237970	49.975	ug/ml	98
20) Nitrobenzene	5.465	77	242203	50.000	ug/ml	91
21) Isophorone	5.707	82	440029	50.053	ug/ml	96
22) 2-Nitrophenol	5.784	139	121659	50.000	ug/ml#	84
23) 2,4-Dimethylphenol	5.849	107	247001	50.139	ug/ml	92
24) Bis(2-chloroethoxy)met...	5.940	93	276019	50.007	ug/ml	98
25) 2,4-Dichlorophenol	6.020	162	222679	50.000	ug/ml	95
26) 1,2,4-Trichlorobenzene	6.102	180	235379	50.000	ug/ml	97
36) Naphthalene	6.167	128	783635	50.000	ug/ml	100
37) Benzoic Acid	5.946	105	158869	50.000	ug/ml	93
38) 4-Chloroaniline	6.233	65	83403	50.000	ug/ml#	53
39) Hexachlorobutadiene	6.315	225	128839	50.000	ug/ml	99
40) p-Chloro-m-cresol	6.724	107	211415	50.000	ug/ml	90
41) 2-Methylnaphthalene	6.849	142	499538	50.000	ug/ml	96
42) 1-Methylnaphthalene	6.943	115	154195	50.000	ug/ml#	70
43) Hexachlorocyclopentadiene	7.017	237	146531	50.000	ug/ml	97
44) 2,4,6-Trichlorophenol	7.133	196	153605	50.000	ug/ml	95
45) 2,4,5-Trichlorophenol	7.162	196	169985	50.000	ug/ml	98
47) 2-Chloronaphthalene	7.318	162	493776	50.000	ug/ml	96
48) 2-Nitroaniline	7.426	138	163324	50.000	ug/ml#	80
49) 1,4-Dinitrobenzene	7.560	168	72569	50.000	ug/ml#	72
50) 1,3-Dinitrobenzene	7.633	168	84778	50.000	ug/ml#	72
51) Dimethyl phthalate	7.628	163	585339	50.000	ug/ml	100
52) Acenaphthylene	7.722	152	783762	50.000	ug/ml	99
53) 2,6-Dinitrotoluene	7.670	165	126267	50.000	ug/ml#	80
54) 1,2-Dinitrobenzene	7.716	168	54833	50.000	ug/ml#	75
64) 3-Nitroaniline	7.827	138	150117	50.000	ug/ml	85
65) Acenaphthene	7.892	154	461498	50.000	ug/ml	93
66) 2,4-Dinitrophenol	7.929	184	58457	50.000	ug/ml#	84
67) Dibenzofuran	8.063	168	721380	50.000	ug/ml	92
68) 2,4-Dinitrotoluene	8.060	165	171897	50.000	ug/ml#	80
69) 4-Nitrophenol	8.009	65	99348	50.082	ug/ml#	78
70) 2,3,5,6-Tetrachlorophenol	8.148	232	137700	50.000	ug/ml	97
71) 2,3,4,6-Tetrachlorophenol	8.190	232	138223	50.000	ug/ml	99
72) Diethyl phthalate	8.321	149	596423	49.989	ug/ml	98
73) Fluorene	8.395	166	577065	50.000	ug/ml	97
74) 4-Chlorophenyl phenyl ...	8.409	204	267858	50.000	ug/ml#	87

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL7.d
 Acq On : 15 May 2023 10:30 pm
 Operator : SV103:jg
 Sample : IL4,32,,ABNL50 Lot# 9944
 Misc : WG1779694,,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 16 13:05:09 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	8.421	138	151084	50.000	ug/ml#	79
76) 4,6-Dinitro-o-cresol	8.455	198	74194	50.000	ug/ml#	76
77) NDPA/DPA	8.526	169	497258	50.000	ug/ml	95
78) Azobenzene	8.563	77	503705	49.950	ug/ml#	91
80) 4-Bromophenyl phenyl e...	8.884	248	160889	50.000	ug/ml#	85
81) Hexachlorobenzene	8.935	284	193412	50.000	ug/ml#	90
82) Pentachlorophenol	9.128	266	112747	50.000	ug/ml	97
89) Phenanthrene	9.324	178	896101	50.000	ug/ml	99
90) Anthracene	9.372	178	908721	50.000	ug/ml	99
91) Carbazole	9.540	167	857340	50.000	ug/ml	98
92) Di-n-butylphthalate	9.921	149	1019226	50.000	ug/ml	99
93) Fluoranthene	10.489	202	982000	49.977	ug/ml	98
94) Benzidine	10.645	184	670902	50.000	ug/ml	98
95) Pyrene	10.722	202	1047201	50.010	ug/ml	99
97) Butyl benzyl phthalate	11.535	149	439593	50.023	ug/ml	90
105) Benzo(a)anthracene	12.205	228	998453	50.013	ug/ml	99
106) 3,3'-Dichlorobenzidine	12.205	252	399816	50.184	ug/ml	97
107) Chrysene	12.257	228	960966	49.999	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	12.376	149	702129	50.050	ug/ml	99
109) Di-n-octylphthalate	13.385	149	1163068	49.897	ug/ml#	94
110) Benzo(b)fluoranthene	13.816	252	1001958	50.014	ug/ml	98
111) Benzo(k)fluoranthene	13.859	252	1037637	49.812	ug/ml	99
112) Benzo(a)pyrene	14.314	252	894622	50.085	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	16.036	276	806119	49.915	ug/mL	98
115) Dibenzo(a,h)anthracene	16.090	278	951418	49.466	ug/ml	98
116) Benzo(ghi)perylene	16.416	276	948953	49.997	ug/ml	94

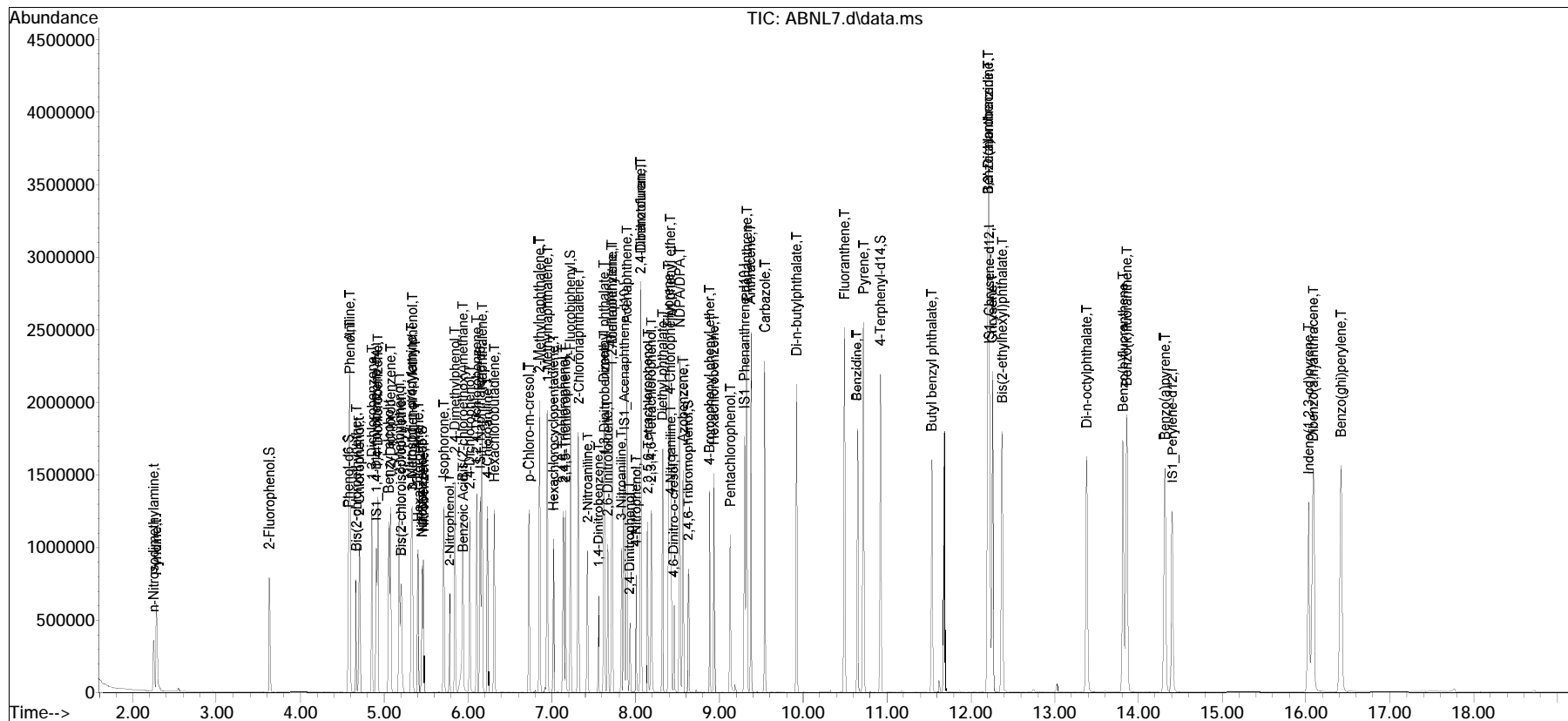
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL7.d
 Acq On : 15 May 2023 10:30 pm
 Operator : SV103:jg
 Sample : IL4,32,,ABNL50 Lot# 9944
 Misc : WG1779694,,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 16 13:05:09 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

Sub List : ABNical_REV1 - ABN ical sublistBNL7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ABNL7.d Operator : SV103:jg
Date Inj'd : 5/15/2023 10:30 pm Instrument : SV103
Sample : IL4,32,,ABNL50 Lot# 9944 Quant Date : 5/16/2023 12:52 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL6.d
 Acq On : 15 May 2023 10:53 pm
 Operator : SV103:jg
 Sample : IL5,32,,ABNL20 Lot# 9945
 Misc : WG1779694,,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 16 13:04:19 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.908	152	160131	40.000	ug/ml	0.00
Standard Area 1 = 149101			Recovery =	107.40%		
35) IS1_Naphthalene-d8	6.147	136	608676	40.000	ug/ml	0.00
Standard Area 1 = 573599			Recovery =	106.12%		
63) IS1_Acenaphthene-d10	7.861	164	330127	40.000	ug/ml	0.00
Standard Area 1 = 309536			Recovery =	106.65%		
88) IS1_Phenanthrene-d10	9.301	188	672726	40.000	ug/ml	0.00
Standard Area 1 = 631294			Recovery =	106.56%		
104) IS1_Chrysene-d12	12.217	240	623770	40.000	ug/ml	0.00
Standard Area 1 = 581246			Recovery =	107.32%		
113) IS1_Perylene-d12	14.404	264	738630	40.000	ug/ml	0.00
Standard Area 1 = 674505			Recovery =	109.51%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.630	112	89259	20.650	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	41.30%		
7) Phenol-d6	4.573	99	111787	18.647	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	37.29%		
19) Nitrobenzene-d5	5.448	82	92790	18.052	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	72.21%		
46) 2-Fluorobiphenyl	7.218	172	228148	18.843	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	75.37%		
79) 2,4,6-Tribromophenol	8.628	330	35194	17.984	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	35.97%		
96) 4-Terphenyl-d14	10.921	244	311046	18.752	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	75.01%		
Target Compounds						
2) n-Nitrosodimethylamine	2.249	74	57718	19.227	ug/ml	94
3) Pyridine	2.283	79	95100	21.718	ug/ml	87
5) Aniline	4.584	93	144587	18.380	ug/ml#	70
6) 2-Chlorophenol	4.701	128	103355	18.407	ug/ml#	89
8) Phenol	4.584	94	125565	18.390	ug/ml#	58
9) Bis(2-chloroethyl)ether	4.664	93	86250	18.191	ug/ml	92
10) 1,3-Dichlorobenzene	4.852	146	118546	18.806	ug/ml	95
11) 1,4-Dichlorobenzene	4.923	146	120924	18.927	ug/ml	96
12) 1,2-Dichlorobenzene	5.070	146	115117	18.599	ug/ml	95
13) Benzyl alcohol	5.053	79	71047	17.841	ug/ml	89
14) Bis(2-chloroisopropyl)...	5.201	45	140954	18.343	ug/ml#	70

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL6.d
 Acq On : 15 May 2023 10:53 pm
 Operator : SV103:jg
 Sample : IL5,32,,ABNL20 Lot# 9945
 Misc : WG1779694,,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 16 13:04:19 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.178	108	88675	18.413	ug/ml	98
16) Hexachloroethane	5.403	117	41668	18.609	ug/ml	84
17) n-Nitrosodi-n-propylamine	5.320	70	60814	17.854	ug/ml	95
18) 3-Methylphenol/4-Methy...	5.332	108	93883	18.358	ug/ml	98
20) Nitrobenzene	5.465	77	94799	18.222	ug/ml	91
21) Isophorone	5.707	82	170029	18.008	ug/ml	95
22) 2-Nitrophenol	5.784	139	45218	17.304	ug/ml#	83
23) 2,4-Dimethylphenol	5.849	107	96484	18.236	ug/ml	92
24) Bis(2-chloroethoxy)met...	5.940	93	108170	18.247	ug/ml	98
25) 2,4-Dichlorophenol	6.019	162	86387	18.061	ug/ml	94
26) 1,2,4-Trichlorobenzene	6.099	180	93593	18.512	ug/ml	96
36) Naphthalene	6.167	128	311796	18.748	ug/ml	100
37) Benzoic Acid	5.920	105	53534	15.878	ug/ml	91
38) 4-Chloroaniline	6.232	65	33168	18.738	ug/ml#	54
39) Hexachlorobutadiene	6.315	225	51240	18.739	ug/ml	98
40) p-Chloro-m-cresol	6.724	107	82946	18.486	ug/ml	92
41) 2-Methylnaphthalene	6.849	142	198507	18.724	ug/ml	97
42) 1-Methylnaphthalene	6.943	115	62304	19.039	ug/ml	72
43) Hexachlorocyclopentadiene	7.017	237	55116	17.723	ug/ml	98
44) 2,4,6-Trichlorophenol	7.133	196	58854	18.054	ug/ml	94
45) 2,4,5-Trichlorophenol	7.162	196	66382	18.401	ug/ml	96
47) 2-Chloronaphthalene	7.318	162	196887	18.788	ug/ml	96
48) 2-Nitroaniline	7.426	138	60522	17.460	ug/ml#	81
49) 1,4-Dinitrobenzene	7.557	168	26554	17.241	ug/ml#	71
50) 1,3-Dinitrobenzene	7.630	168	31214	17.348	ug/ml	77
51) Dimethyl phthalate	7.625	163	229323	18.460	ug/ml	100
52) Acenaphthylene	7.719	152	312030	18.759	ug/ml	99
53) 2,6-Dinitrotoluene	7.670	165	48057	17.933	ug/ml#	81
54) 1,2-Dinitrobenzene	7.713	168	20199	17.357	ug/ml	80
64) 3-Nitroaniline	7.824	138	58804	18.364	ug/ml	85
65) Acenaphthene	7.892	154	185174	18.811	ug/ml	94
66) 2,4-Dinitrophenol	7.929	184	18868	15.132	ug/ml#	86
67) Dibenzofuran	8.060	168	291250	18.928	ug/ml	92
68) 2,4-Dinitrotoluene	8.057	165	65535	17.873	ug/ml#	81
69) 4-Nitrophenol	8.006	65	37838	17.885	ug/ml#	78
70) 2,3,5,6-Tetrachlorophenol	8.148	232	51846	17.651	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	8.187	232	54738	18.566	ug/ml	99
72) Diethyl phthalate	8.318	149	235691	18.522	ug/ml	98
73) Fluorene	8.395	166	227905	18.515	ug/ml	96
74) 4-Chlorophenyl phenyl ...	8.409	204	105176	18.408	ug/ml	89

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL6.d
 Acq On : 15 May 2023 10:53 pm
 Operator : SV103:jg
 Sample : IL5,32,,ABNL20 Lot# 9945
 Misc : WG1779694,,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 16 13:04:19 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	8.415	138	61482	19.078	ug/ml#	77
76) 4,6-Dinitro-o-cresol	8.452	198	26549	16.776	ug/ml#	76
77) NDPA/DPA	8.523	169	197607	18.630	ug/ml	95
78) Azobenzene	8.560	77	198700	18.475	ug/ml#	91
80) 4-Bromophenyl phenyl e...	8.881	248	63994	18.647	ug/ml#	85
81) Hexachlorobenzene	8.935	284	77058	18.678	ug/ml#	90
82) Pentachlorophenol	9.128	266	41440	17.231	ug/ml	97
89) Phenanthrene	9.324	178	359475	18.822	ug/ml	100
90) Anthracene	9.372	178	361535	18.667	ug/ml	99
91) Carbazole	9.537	167	345114	18.887	ug/ml	98
92) Di-n-butylphthalate	9.921	149	380118	17.499	ug/ml	99
93) Fluoranthene	10.489	202	388680	18.563	ug/ml	98
94) Benzidine	10.645	184	256662	17.950	ug/ml	98
95) Pyrene	10.719	202	418473	18.754	ug/ml	99
97) Butyl benzyl phthalate	11.535	149	154782	16.529	ug/ml	91
105) Benzo(a)anthracene	12.205	228	400577	18.697	ug/ml	99
106) 3,3'-Dichlorobenzidine	12.205	252	152644	17.853	ug/ml	97
107) Chrysene	12.253	228	393946	19.100	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	12.376	149	254266	16.889	ug/ml	98
109) Di-n-octylphthalate	13.384	149	398212	15.919	ug/ml#	94
110) Benzo(b)fluoranthene	13.811	252	399912	18.601	ug/ml	99
111) Benzo(k)fluoranthene	13.856	252	413222	18.484	ug/ml	99
112) Benzo(a)pyrene	14.305	252	350491	18.284	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	16.030	276	315297	17.828	ug/mL	98
115) Dibenzo(a,h)anthracene	16.084	278	376781	17.889	ug/ml	98
116) Benzo(ghi)perylene	16.411	276	383523	18.452	ug/ml	93

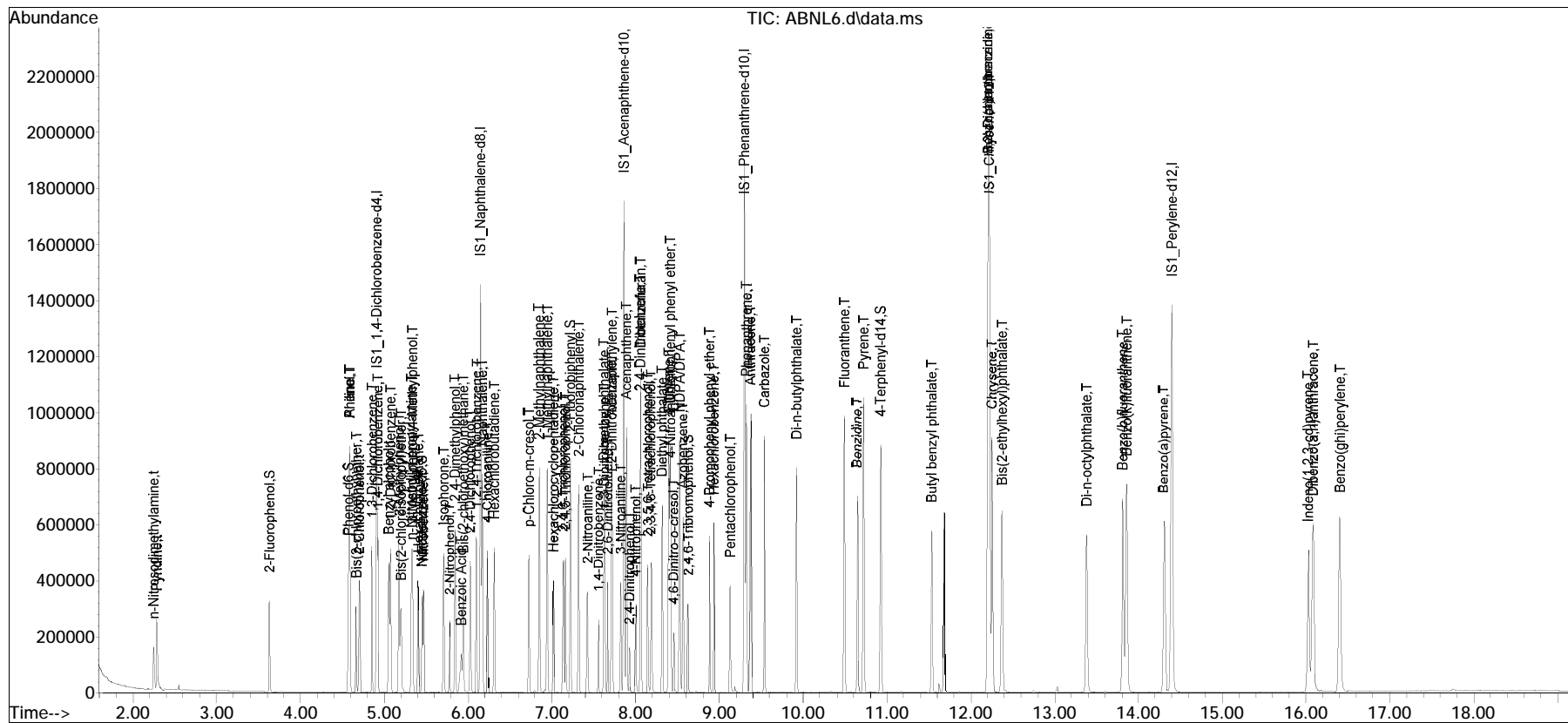
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL6.d
 Acq On : 15 May 2023 10:53 pm
 Operator : SV103:jg
 Sample : IL5,32,,ABNL20 Lot# 9945
 Misc : WG1779694,,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 16 13:04:19 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

Sub List : ABNical_REV1 - ABN ical sublistBNL7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ABNL6.d Operator : SV103:jg
Date Inj'd : 5/15/2023 10:53 pm Instrument : SV103
Sample : IL5,32,,ABNL20 Lot# 9945 Quant Date : 5/16/2023 12:52 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL5.d
 Acq On : 15 May 2023 11:17 pm
 Operator : SV103:jg
 Sample : IL6,32,,ABNL10 Lot# 9946
 Misc : WG1779694,,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 13:03:31 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.906	152	163492	40.000	ug/ml	0.00	
Standard Area 1 = 149101			Recovery =	109.65%			
35) IS1_Naphthalene-d8	6.147	136	620318	40.000	ug/ml	0.00	
Standard Area 1 = 573599			Recovery =	108.14%			
63) IS1_Acenaphthene-d10	7.861	164	330199	40.000	ug/ml	0.00	
Standard Area 1 = 309536			Recovery =	106.68%			
88) IS1_Phenanthrene-d10	9.301	188	676285	40.000	ug/ml	0.00	
Standard Area 1 = 631294			Recovery =	107.13%			
104) IS1_Chrysene-d12	12.217	240	627674	40.000	ug/ml	0.00	
Standard Area 1 = 581246			Recovery =	107.99%			
113) IS1_Perylene-d12	14.405	264	735514	40.000	ug/ml	0.00	
Standard Area 1 = 674505			Recovery =	109.05%			
System Monitoring Compounds							
4) 2-Fluorophenol	3.630	112	44716	10.132	ug/ml	0.00	
Spiked Amount 50.000	Range 15 - 110		Recovery =	20.26%			
7) Phenol-d6	4.570	99	55494	9.066	ug/ml	0.00	
Spiked Amount 50.000	Range 15 - 110		Recovery =	18.13%			
19) Nitrobenzene-d5	5.448	82	45909	8.748	ug/ml	0.00	
Spiked Amount 25.000	Range 30 - 130		Recovery =	34.99%			
46) 2-Fluorobiphenyl	7.219	172	114117	9.248	ug/ml	0.00	
Spiked Amount 25.000	Range 30 - 130		Recovery =	36.99%			
79) 2,4,6-Tribromophenol	8.628	330	16396	8.376	ug/ml	0.00	
Spiked Amount 50.000	Range 15 - 110		Recovery =	16.75%			
96) 4-Terphenyl-d14	10.921	244	155538	9.327	ug/ml	0.00	
Spiked Amount 25.000	Range 30 - 130		Recovery =	37.31%			
Target Compounds							
							Qvalue
2) n-Nitrosodimethylamine	2.249	74	28173	9.192	ug/ml		99
3) Pyridine	2.286	79	47463	10.616	ug/ml		88
5) Aniline	4.585	93	72119	8.979	ug/ml#		68
6) 2-Chlorophenol	4.698	128	52523	9.162	ug/ml#		88
8) Phenol	4.585	94	63841	9.158	ug/ml#		60
9) Bis(2-chloroethyl)ether	4.664	93	45050	9.306	ug/ml		91
10) 1,3-Dichlorobenzene	4.849	146	60862	9.457	ug/ml		95
11) 1,4-Dichlorobenzene	4.923	146	61798	9.474	ug/ml		98
12) 1,2-Dichlorobenzene	5.070	146	59093	9.351	ug/ml		95
13) Benzyl alcohol	5.051	79	34935	8.592	ug/ml		89
14) Bis(2-chloroisopropyl)...	5.198	45	71899	9.164	ug/ml#		71

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL5.d
 Acq On : 15 May 2023 11:17 pm
 Operator : SV103:jg
 Sample : IL6,32,,ABNL10 Lot# 9946
 Misc : WG1779694,,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 13:03:31 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.178	108	44372	9.024	ug/ml	97
16) Hexachloroethane	5.403	117	21584	9.441	ug/ml#	84
17) n-Nitrosodi-n-propylamine	5.320	70	30835	8.867	ug/ml	95
18) 3-Methylphenol/4-Methy...	5.332	108	47078	9.016	ug/ml	98
20) Nitrobenzene	5.465	77	46025	8.665	ug/ml	91
21) Isophorone	5.707	82	84629	8.779	ug/ml	95
22) 2-Nitrophenol	5.784	139	21135	7.922	ug/ml#	84
23) 2,4-Dimethylphenol	5.849	107	47860	8.860	ug/ml	92
24) Bis(2-chloroethoxy)met...	5.940	93	54856	9.064	ug/ml	98
25) 2,4-Dichlorophenol	6.019	162	42618	8.727	ug/ml	94
26) 1,2,4-Trichlorobenzene	6.099	180	48480	9.392	ug/ml	97
36) Naphthalene	6.167	128	160461	9.467	ug/ml	100
37) Benzoic Acid	5.906	105	21573	6.278	ug/ml	90
38) 4-Chloroaniline	6.233	65	16635	9.222	ug/ml#	55
39) Hexachlorobutadiene	6.315	225	26626	9.555	ug/ml	100
40) p-Chloro-m-cresol	6.721	107	39490	8.636	ug/ml	88
41) 2-Methylnaphthalene	6.849	142	99285	9.189	ug/ml	96
42) 1-Methylnaphthalene	6.943	115	31269	9.376	ug/ml#	71
43) Hexachlorocyclopentadiene	7.017	237	27212	8.586	ug/ml	97
44) 2,4,6-Trichlorophenol	7.130	196	28337	8.529	ug/ml	96
45) 2,4,5-Trichlorophenol	7.162	196	32425	8.819	ug/ml	97
47) 2-Chloronaphthalene	7.318	162	97909	9.168	ug/ml	95
48) 2-Nitroaniline	7.423	138	28043	7.939	ug/ml#	83
49) 1,4-Dinitrobenzene	7.557	168	11772	7.500	ug/ml#	75
50) 1,3-Dinitrobenzene	7.631	168	13979	7.624	ug/ml	80
51) Dimethyl phthalate	7.622	163	114765	9.065	ug/ml	99
52) Acenaphthylene	7.719	152	153079	9.030	ug/ml	99
53) 2,6-Dinitrotoluene	7.668	165	22813	8.353	ug/ml#	83
54) 1,2-Dinitrobenzene	7.713	168	9649	8.136	ug/ml	81
64) 3-Nitroaniline	7.824	138	27589	8.614	ug/ml	90
65) Acenaphthene	7.892	154	93643	9.511	ug/ml	94
66) 2,4-Dinitrophenol	7.926	184	8513	6.826	ug/ml#	86
67) Dibenzofuran	8.060	168	144714	9.403	ug/ml	92
68) 2,4-Dinitrotoluene	8.057	165	30589	8.341	ug/ml#	84
69) 4-Nitrophenol	8.006	65	17497	8.268	ug/ml#	73
70) 2,3,5,6-Tetrachlorophenol	8.148	232	24439	8.319	ug/ml	97
71) 2,3,4,6-Tetrachlorophenol	8.187	232	26559	9.006	ug/ml	96
72) Diethyl phthalate	8.315	149	116363	9.143	ug/ml	98
73) Fluorene	8.392	166	113359	9.207	ug/ml	96
74) 4-Chlorophenyl phenyl ...	8.409	204	53040	9.281	ug/ml	88

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL5.d
 Acq On : 15 May 2023 11:17 pm
 Operator : SV103:jg
 Sample : IL6,32,,ABNL10 Lot# 9946
 Misc : WG1779694,,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 13:03:31 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	8.415	138	29170	9.049	ug/ml#	79
76) 4,6-Dinitro-o-cresol	8.452	198	11513	7.273	ug/ml#	79
77) NDPA/DPA	8.523	169	97593	9.199	ug/ml	94
78) Azobenzene	8.560	77	99229	9.224	ug/ml#	90
80) 4-Bromophenyl phenyl e...	8.881	248	31964	9.312	ug/ml#	85
81) Hexachlorobenzene	8.932	284	39126	9.482	ug/ml#	90
82) Pentachlorophenol	9.128	266	18733	7.788	ug/ml	97
89) Phenanthrene	9.324	178	182803	9.521	ug/ml	99
90) Anthracene	9.372	178	179653	9.227	ug/ml	99
91) Carbazole	9.537	167	173353	9.437	ug/ml	98
92) Di-n-butylphthalate	9.921	149	181722	8.322	ug/ml	99
93) Fluoranthene	10.489	202	195212	9.274	ug/ml	97
94) Benzidine	10.645	184	119476	8.312	ug/ml	97
95) Pyrene	10.719	202	211426	9.425	ug/ml	100
97) Butyl benzyl phthalate	11.535	149	69967	7.432	ug/ml	90
105) Benzo(a)anthracene	12.205	228	198953	9.229	ug/ml	100
106) 3,3'-Dichlorobenzidine	12.202	252	73100	8.497	ug/ml	97
107) Chrysene	12.254	228	200746	9.672	ug/ml	100
108) Bis(2-ethylhexyl)phtha...	12.376	149	116371	7.682	ug/ml	99
109) Di-n-octylphthalate	13.384	149	169549	6.736	ug/ml	95
110) Benzo(b)fluoranthene	13.811	252	194672	8.998	ug/ml	99
111) Benzo(k)fluoranthene	13.853	252	204202	9.078	ug/ml	98
112) Benzo(a)pyrene	14.305	252	170125	8.820	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	16.027	276	147605	8.382	ug/mL	99
115) Dibenzo(a,h)anthracene	16.084	278	179843	8.575	ug/ml	98
116) Benzo(ghi)perylene	16.405	276	183463	8.864	ug/ml	93

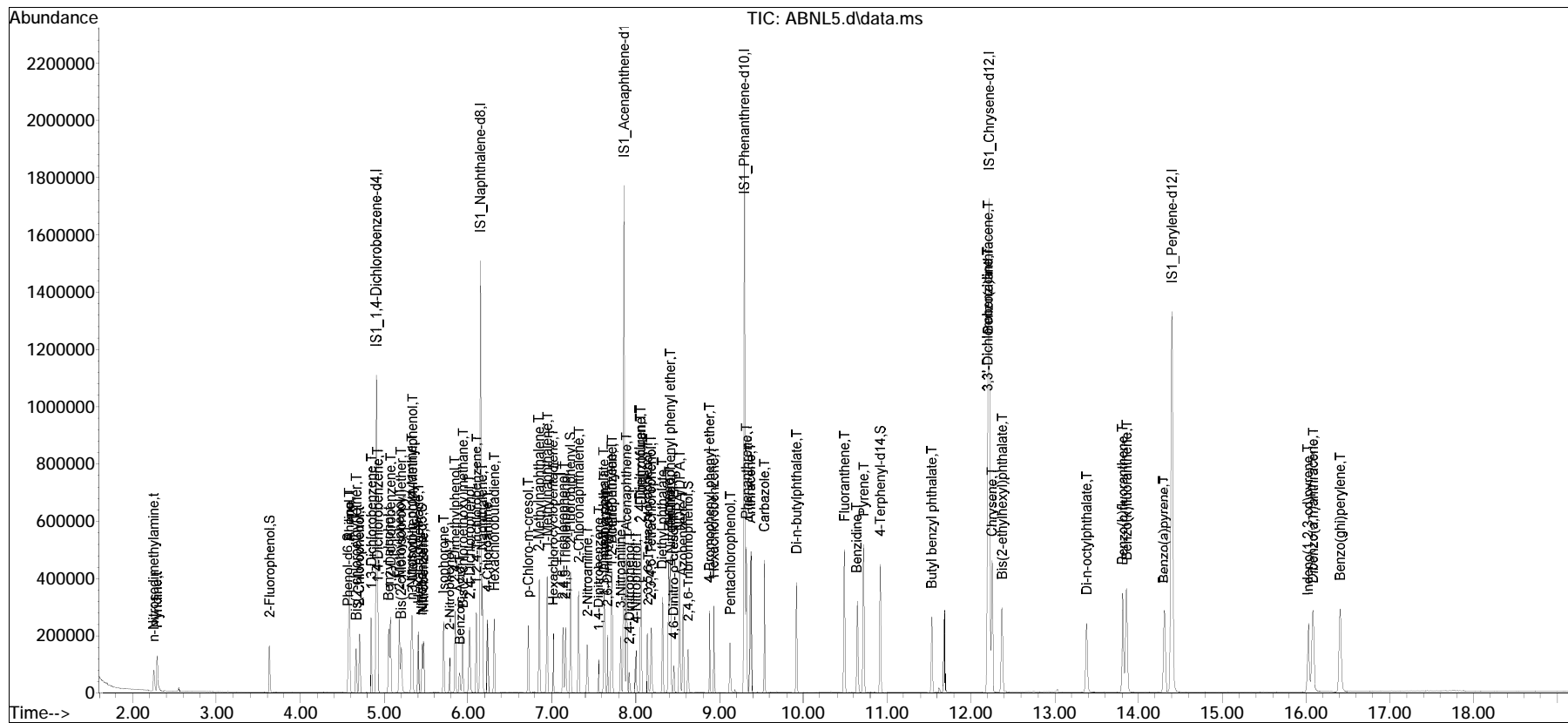
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL5.d
 Acq On : 15 May 2023 11:17 pm
 Operator : SV103:jg
 Sample : IL6,32,,ABNL10 Lot# 9946
 Misc : WG1779694,,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 13:03:31 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

Sub List : ABNical_REV1 - ABN ical sublistBNL7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ABNL5.d Operator : SV103:jg
Date Inj'd : 5/15/2023 11:17 pm Instrument : SV103
Sample : IL6,32,,ABNL10 Lot# 9946 Quant Date : 5/16/2023 12:52 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL4.d
 Acq On : 15 May 2023 11:40 pm
 Operator : SV103:jg
 Sample : IL7,32,,ABNL5 Lot# 9947
 Misc : WG1779694,,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 16 13:20:28 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:20:49 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.908	152	162574	40.000	ug/ml	0.00	
Standard Area 1 = 149101			Recovery = 109.04%				
35) IS1_Naphthalene-d8	6.147	136	614798	40.000	ug/ml	0.00	
Standard Area 1 = 573599			Recovery = 107.18%				
63) IS1_Acenaphthene-d10	7.861	164	319469	40.000	ug/ml	0.00	
Standard Area 1 = 309536			Recovery = 103.21%				
88) IS1_Phenanthrene-d10	9.301	188	629329	40.000	ug/ml	0.00	
Standard Area 1 = 631294			Recovery = 99.69%				
104) IS1_Chrysene-d12	12.217	240	545630	40.000	ug/ml	0.00	
Standard Area 1 = 581246			Recovery = 93.87%				
113) IS1_Perylene-d12	14.402	264	632068	40.000	ug/ml	0.00	
Standard Area 1 = 674505			Recovery = 93.71%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.630	112	21789	4.809	ug/ml	0.00	
Spiked Amount 50.000	Range 15 - 110		Recovery = 9.62%#				
7) Phenol-d6	4.573	99	27272	4.827	ug/ml	0.00	
Spiked Amount 50.000	Range 15 - 110		Recovery = 9.65%#				
19) Nitrobenzene-d5	5.448	82	22623	4.826	ug/ml	0.00	
Spiked Amount 25.000	Range 30 - 130		Recovery = 19.30%#				
46) 2-Fluorobiphenyl	7.218	172	57905	5.009	ug/ml	0.00	
Spiked Amount 25.000	Range 30 - 130		Recovery = 20.04%#				
79) 2,4,6-Tribromophenol	8.628	330	7456	4.386	ug/ml	0.00	
Spiked Amount 50.000	Range 15 - 110		Recovery = 8.77%#				
96) 4-Terphenyl-d14	10.921	244	70186	4.794	ug/ml	0.00	
Spiked Amount 25.000	Range 30 - 130		Recovery = 19.18%#				
Target Compounds							
							Qvalue
2) n-Nitrosodimethylamine	2.252	74	14236	4.911	ug/ml		96
3) Pyridine	2.291	79	23309	4.844	ug/ml		88
5) Aniline	4.584	93	36405	4.926	ug/ml#		68
6) 2-Chlorophenol	4.698	128	25941	4.927	ug/ml#		89
8) Phenol	4.584	94	31504	4.883	ug/ml#		58
9) Bis(2-chloroethyl)ether	4.664	93	22514	4.940	ug/ml		93
10) 1,3-Dichlorobenzene	4.852	146	30353	4.929	ug/ml		95
11) 1,4-Dichlorobenzene	4.923	146	31566	5.017	ug/ml		99
12) 1,2-Dichlorobenzene	5.070	146	29349	4.917	ug/ml		95
13) Benzyl alcohol	5.053	79	17035	4.744	ug/ml		90
14) Bis(2-chloroisopropyl)...	5.198	45	36816	5.050	ug/ml#		69

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL4.d
 Acq On : 15 May 2023 11:40 pm
 Operator : SV103:jg
 Sample : IL7,32,,ABNL5 Lot# 9947
 Misc : WG1779694,,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 16 13:20:28 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:20:49 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.178	108	21873	4.863	ug/ml	99
16) Hexachloroethane	5.400	117	10623	4.925	ug/ml	84
17) n-Nitrosodi-n-propylamine	5.320	70	15052	4.788	ug/ml	96
18) 3-Methylphenol/4-Methy...	5.332	108	23119	4.874	ug/ml	100
20) Nitrobenzene	5.465	77	22903	4.842	ug/ml	93
21) Isophorone	5.707	82	40980	4.782	ug/ml#	94
22) 2-Nitrophenol	5.781	139	10130	4.383	ug/ml#	84
23) 2,4-Dimethylphenol	5.846	107	23678	4.878	ug/ml	91
24) Bis(2-chloroethoxy)met...	5.937	93	27622	4.964	ug/ml	97
25) 2,4-Dichlorophenol	6.019	162	20932	4.867	ug/ml	96
26) 1,2,4-Trichlorobenzene	6.099	180	24363	4.984	ug/ml	98
36) Naphthalene	6.167	128	81033	5.010	ug/ml	99
37) Benzoic Acid	5.894	105	7550	5.749	ug/ml#	85
38) 4-Chloroaniline	6.233	65	8175	4.883	ug/ml#	50
39) Hexachlorobutadiene	6.315	225	13596	5.085	ug/ml	96
40) p-Chloro-m-cresol	6.724	107	19344	4.774	ug/ml	92
41) 2-Methylnaphthalene	6.849	142	50499	5.016	ug/ml	97
42) 1-Methylnaphthalene	6.943	115	15543	4.944	ug/ml#	70
43) Hexachlorocyclopentadiene	7.017	237	13016	4.479	ug/ml#	97
44) 2,4,6-Trichlorophenol	7.133	196	13441	4.680	ug/ml	96
45) 2,4,5-Trichlorophenol	7.162	196	15292	4.712	ug/ml	99
47) 2-Chloronaphthalene	7.318	162	48896	4.934	ug/ml	96
48) 2-Nitroaniline	7.423	138	12851	4.143	ug/ml#	81
49) 1,4-Dinitrobenzene	7.557	168	5514	3.756	ug/ml#	70
50) 1,3-Dinitrobenzene	7.631	168	6271	4.713	ug/ml	76
51) Dimethyl phthalate	7.622	163	55307	4.849	ug/ml	98
52) Acenaphthylene	7.719	152	74169	4.867	ug/ml	100
53) 2,6-Dinitrotoluene	7.667	165	10448	4.458	ug/ml#	81
54) 1,2-Dinitrobenzene	7.710	168	4442	4.301	ug/ml	85
64) 3-Nitroaniline	7.824	138	12581	4.474	ug/ml	88
65) Acenaphthene	7.892	154	46174	4.982	ug/ml	94
66) 2,4-Dinitrophenol	7.926	184	3087	5.001	ug/ml#	88
67) Dibenzofuran	8.060	168	71919	5.007	ug/ml	92
68) 2,4-Dinitrotoluene	8.057	165	13012	4.239	ug/ml	91
69) 4-Nitrophenol	8.003	65	7821	4.277	ug/ml#	84
70) 2,3,5,6-Tetrachlorophenol	8.148	232	10925	4.366	ug/ml	97
71) 2,3,4,6-Tetrachlorophenol	8.187	232	12289	4.753	ug/ml	96
72) Diethyl phthalate	8.315	149	54450	4.865	ug/ml	98
73) Fluorene	8.392	166	54939	4.931	ug/ml	97
74) 4-Chlorophenyl phenyl ...	8.409	204	26673	5.067	ug/ml#	86

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL4.d
 Acq On : 15 May 2023 11:40 pm
 Operator : SV103:jg
 Sample : IL7,32,,ABNL5 Lot# 9947
 Misc : WG1779694,,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 16 13:20:28 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:20:49 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

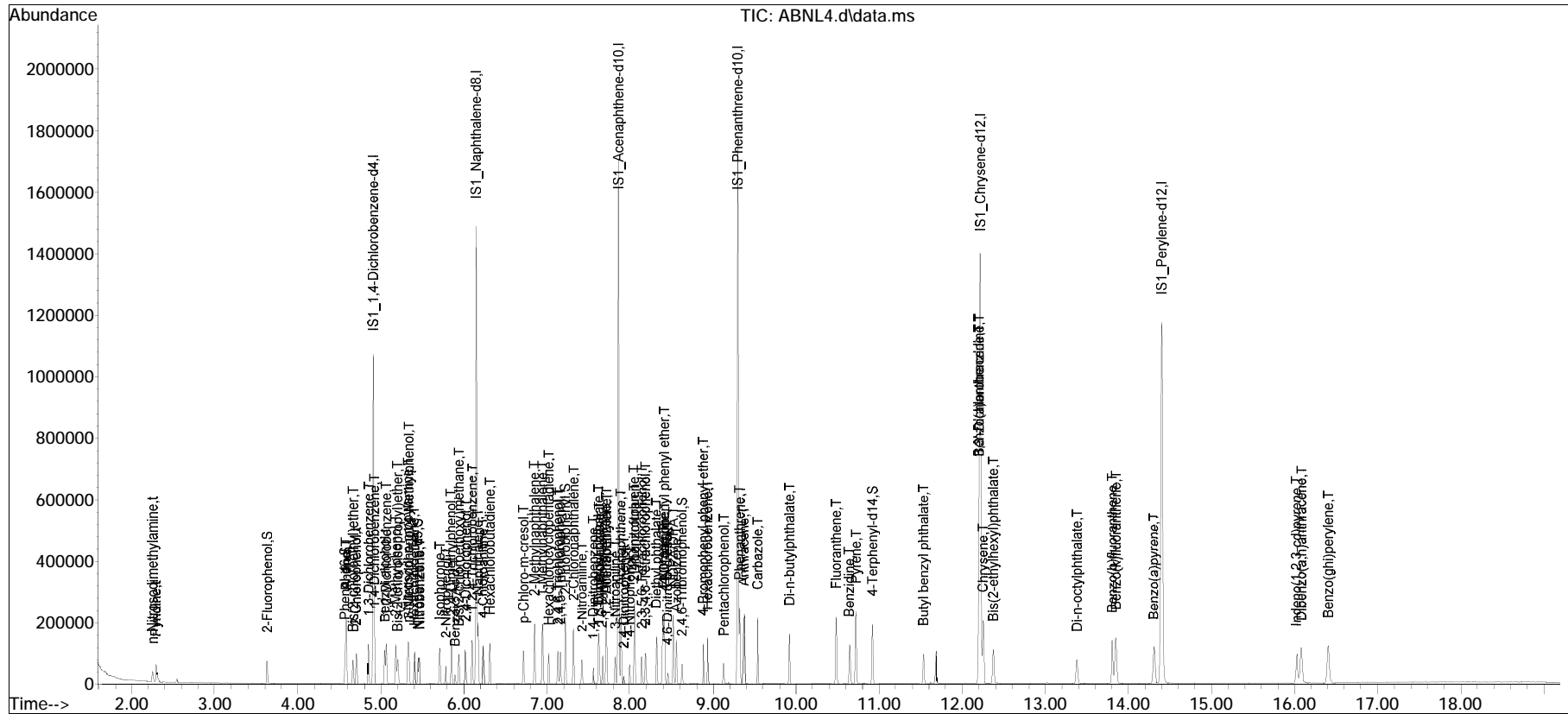
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	8.412	138	12846	4.504	ug/ml	82
76) 4,6-Dinitro-o-cresol	8.449	198	4412	4.958	ug/ml#	77
77) NDPA/DPA	8.523	169	47402	4.978	ug/ml	95
78) Azobenzene	8.560	77	46937	4.914	ug/ml#	89
80) 4-Bromophenyl phenyl e...	8.881	248	15391	4.917	ug/ml#	86
81) Hexachlorobenzene	8.932	284	18747	4.903	ug/ml	92
82) Pentachlorophenol	9.128	266	7497	4.900	ug/ml	95
89) Phenanthrene	9.321	178	88447	5.099	ug/ml	100
90) Anthracene	9.372	178	84611	4.951	ug/ml	99
91) Carbazole	9.537	167	79855	4.988	ug/ml	98
92) Di-n-butylphthalate	9.921	149	76753	4.466	ug/ml	100
93) Fluoranthene	10.486	202	87962	4.832	ug/ml	97
94) Benzidine	10.642	184	48269	4.206	ug/ml	97
95) Pyrene	10.719	202	95896	4.899	ug/ml	99
97) Butyl benzyl phthalate	11.535	149	27066	4.907	ug/ml	88
105) Benzo(a)anthracene	12.202	228	87892	4.862	ug/ml	100
106) 3,3'-Dichlorobenzidine	12.202	252	29183	4.424	ug/ml	96
107) Chrysene	12.251	228	91655	5.066	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	12.373	149	42230	4.597	ug/ml	99
109) Di-n-octylphthalate	13.384	149	56741	4.891	ug/ml	95
110) Benzo(b)fluoranthene	13.808	252	81912	4.669	ug/ml	98
111) Benzo(k)fluoranthene	13.850	252	85527	4.752	ug/ml	98
112) Benzo(a)pyrene	14.308	252	71018	4.694	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	16.024	276	59732	4.430	ug/mL	98
115) Dibenzo(a,h)anthracene	16.084	278	73201	4.529	ug/ml	99
116) Benzo(ghi)perylene	16.405	276	78304	4.757	ug/ml#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL4.d
 Acq On : 15 May 2023 11:40 pm
 Operator : SV103:jg
 Sample : IL7,32,,ABNL5 Lot# 9947
 Misc : WG1779694,,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 16 13:20:28 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:20:49 2023
 Response via : Initial Calibration

Sub List : ABNical_REV1 - ABN ical sublistBNL7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ABNL4.d Operator : SV103:jg
Date Inj'd : 5/15/2023 11:40 pm Instrument : SV103
Sample : IL7,32,,ABNL5 Lot# 9947 Quant Date : 5/16/2023 1:20 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL3.d
 Acq On : 16 May 2023 12:03 am
 Operator : SV103:jg
 Sample : IL8,32,,ABNL3 Lot# 9948
 Misc : WG1779694,,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 16 13:19:19 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:19:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.906	152	172469	40.000	ug/ml	0.00	
Standard Area 1 = 149101			Recovery = 115.67%				
35) IS1_Naphthalene-d8	6.147	136	646589	40.000	ug/ml	0.00	
Standard Area 1 = 573599			Recovery = 112.72%				
63) IS1_Acenaphthene-d10	7.861	164	333608	40.000	ug/ml	0.00	
Standard Area 1 = 309536			Recovery = 107.78%				
88) IS1_Phenanthrene-d10	9.301	188	680866	40.000	ug/ml	0.00	
Standard Area 1 = 631294			Recovery = 107.85%				
104) IS1_Chrysene-d12	12.217	240	625569	40.000	ug/ml	0.00	
Standard Area 1 = 581246			Recovery = 107.63%				
113) IS1_Perylene-d12	14.404	264	753196	40.000	ug/ml	0.00	
Standard Area 1 = 674505			Recovery = 111.67%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.630	112	13675	2.845	ug/ml	0.00	
Spiked Amount 50.000	Range 15 - 110		Recovery = 5.69%#				
7) Phenol-d6	4.573	99	17045	2.844	ug/ml	0.00	
Spiked Amount 50.000	Range 15 - 110		Recovery = 5.69%#				
19) Nitrobenzene-d5	5.448	82	13733	2.761	ug/ml	0.00	
Spiked Amount 25.000	Range 30 - 130		Recovery = 11.04%#				
46) 2-Fluorobiphenyl	7.218	172	35676	2.935	ug/ml	0.00	
Spiked Amount 25.000	Range 30 - 130		Recovery = 11.74%#				
79) 2,4,6-Tribromophenol	8.628	330	4449	2.506	ug/ml	0.00	
Spiked Amount 50.000	Range 15 - 110		Recovery = 5.01%#				
96) 4-Terphenyl-d14	10.921	244	47665	3.009	ug/ml	0.00	
Spiked Amount 25.000	Range 30 - 130		Recovery = 12.04%#				
Target Compounds							
							Qvalue
2) n-Nitrosodimethylamine	2.252	74	9033	2.937	ug/ml#		96
3) Pyridine	2.297	79	14765	2.892	ug/ml		88
5) Aniline	4.584	93	22926	2.924	ug/ml#		69
6) 2-Chlorophenol	4.701	128	16033	2.870	ug/ml		91
8) Phenol	4.584	94	19783	2.890	ug/ml#		62
9) Bis(2-chloroethyl)ether	4.664	93	14495	2.998	ug/ml		92
10) 1,3-Dichlorobenzene	4.849	146	19666	3.011	ug/ml		96
11) 1,4-Dichlorobenzene	4.923	146	20106	3.012	ug/ml		98
12) 1,2-Dichlorobenzene	5.070	146	18733	2.958	ug/ml		95
13) Benzyl alcohol	5.053	79	10857	2.850	ug/ml		92
14) Bis(2-chloroisopropyl)...	5.201	45	22872	2.957	ug/ml#		68

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL3.d
 Acq On : 16 May 2023 12:03 am
 Operator : SV103:jg
 Sample : IL8,32,,ABNL3 Lot# 9948
 Misc : WG1779694,,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 16 13:19:19 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:19:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.178	108	13921	2.918	ug/ml	98
16) Hexachloroethane	5.403	117	6972	3.047	ug/ml	92
17) n-Nitrosodi-n-propylamine	5.320	70	9490	2.846	ug/ml	98
18) 3-Methylphenol/4-Methy...	5.332	108	14446	2.871	ug/ml	99
20) Nitrobenzene	5.465	77	14184	2.827	ug/ml	93
21) Isophorone	5.707	82	25279	2.781	ug/ml	96
22) 2-Nitrophenol	5.781	139	6080	2.480	ug/ml#	82
23) 2,4-Dimethylphenol	5.849	107	14044	2.727	ug/ml	90
24) Bis(2-chloroethoxy)met...	5.937	93	17221	2.917	ug/ml	99
25) 2,4-Dichlorophenol	6.019	162	12889	2.825	ug/ml	94
26) 1,2,4-Trichlorobenzene	6.099	180	15216	2.934	ug/ml	97
36) Naphthalene	6.167	128	50884	2.991	ug/ml	100
37) Benzoic Acid	5.891	105	4182	4.784	ug/ml	93
38) 4-Chloroaniline	6.232	65	5107	2.900	ug/ml#	53
39) Hexachlorobutadiene	6.315	225	8338	2.965	ug/ml	97
40) p-Chloro-m-cresol	6.724	107	12004	2.817	ug/ml	93
41) 2-Methylnaphthalene	6.849	142	31317	2.958	ug/ml	97
42) 1-Methylnaphthalene	6.940	115	9913	2.998	ug/ml	75
43) Hexachlorocyclopentadiene	7.017	237	7685	2.515	ug/ml	97
44) 2,4,6-Trichlorophenol	7.133	196	7947	2.631	ug/ml	97
45) 2,4,5-Trichlorophenol	7.162	196	9148	2.680	ug/ml	99
47) 2-Chloronaphthalene	7.318	162	30326	2.910	ug/ml	95
48) 2-Nitroaniline	7.423	138	7555	2.316	ug/ml#	83
49) 1,4-Dinitrobenzene	7.559	168	2953	1.913	ug/ml	82
50) 1,3-Dinitrobenzene	7.633	168	3616	3.164	ug/ml	81
51) Dimethyl phthalate	7.622	163	34510	2.877	ug/ml	99
52) Acenaphthylene	7.719	152	44861	2.799	ug/ml	99
53) 2,6-Dinitrotoluene	7.670	165	6020	2.442	ug/ml#	84
54) 1,2-Dinitrobenzene	7.710	168	2601	2.395	ug/ml	95
64) 3-Nitroaniline	7.824	138	7392	2.517	ug/ml	90
65) Acenaphthene	7.892	154	29159	3.013	ug/ml	94
66) 2,4-Dinitrophenol	7.926	184	1714	3.903	ug/ml	91
67) Dibenzofuran	8.062	168	45295	3.020	ug/ml	93
68) 2,4-Dinitrotoluene	8.057	165	7693	2.400	ug/ml	92
69) 4-Nitrophenol	8.006	65	4834	2.532	ug/ml#	82
70) 2,3,5,6-Tetrachlorophenol	8.148	232	6670	2.553	ug/ml	97
71) 2,3,4,6-Tetrachlorophenol	8.187	232	6854	2.539	ug/ml	95
72) Diethyl phthalate	8.315	149	33644	2.879	ug/ml	99
73) Fluorene	8.395	166	34571	2.971	ug/ml	98
74) 4-Chlorophenyl phenyl ...	8.409	204	16803	3.057	ug/ml#	87

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL3.d
 Acq On : 16 May 2023 12:03 am
 Operator : SV103:jg
 Sample : IL8,32,,ABNL3 Lot# 9948
 Misc : WG1779694,,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 16 13:19:19 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:19:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	8.415	138	7932	2.663	ug/ml	81
76) 4,6-Dinitro-o-cresol	8.452	198	2530	3.762	ug/ml#	82
77) NDPA/DPA	8.523	169	29314	2.948	ug/ml	95
78) Azobenzene	8.560	77	29088	2.916	ug/ml#	92
80) 4-Bromophenyl phenyl e...	8.881	248	9722	2.974	ug/ml#	86
81) Hexachlorobenzene	8.932	284	11707	2.932	ug/ml#	91
82) Pentachlorophenol	9.128	266	4672	3.672	ug/ml	91
89) Phenanthrene	9.324	178	57645	3.072	ug/ml	99
90) Anthracene	9.372	178	55692	3.012	ug/ml	99
91) Carbazole	9.537	167	51675	2.984	ug/ml	99
92) Di-n-butylphthalate	9.921	149	49061	2.638	ug/ml	99
93) Fluoranthene	10.489	202	57918	2.941	ug/ml	97
94) Benzidine	10.645	184	30469	2.454	ug/ml	97
95) Pyrene	10.719	202	63504	2.999	ug/ml	100
97) Butyl benzyl phthalate	11.535	149	16250	3.553	ug/ml	92
105) Benzo(a)anthracene	12.205	228	61521	2.969	ug/ml	99
106) 3,3'-Dichlorobenzidine	12.205	252	19322	2.555	ug/ml	96
107) Chrysene	12.253	228	63190	3.046	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	12.373	149	26999	3.192	ug/ml	99
109) Di-n-octylphthalate	13.382	149	36315	3.798	ug/ml#	96
110) Benzo(b)fluoranthene	13.811	252	57861	2.876	ug/ml	98
111) Benzo(k)fluoranthene	13.853	252	61165	2.964	ug/ml	99
112) Benzo(a)pyrene	14.308	252	49476	2.852	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	16.024	276	42021	2.615	ug/mL	99
115) Dibenzo(a,h)anthracene	16.081	278	51330	2.665	ug/ml	98
116) Benzo(ghi)perylene	16.405	276	54285	2.767	ug/ml#	93

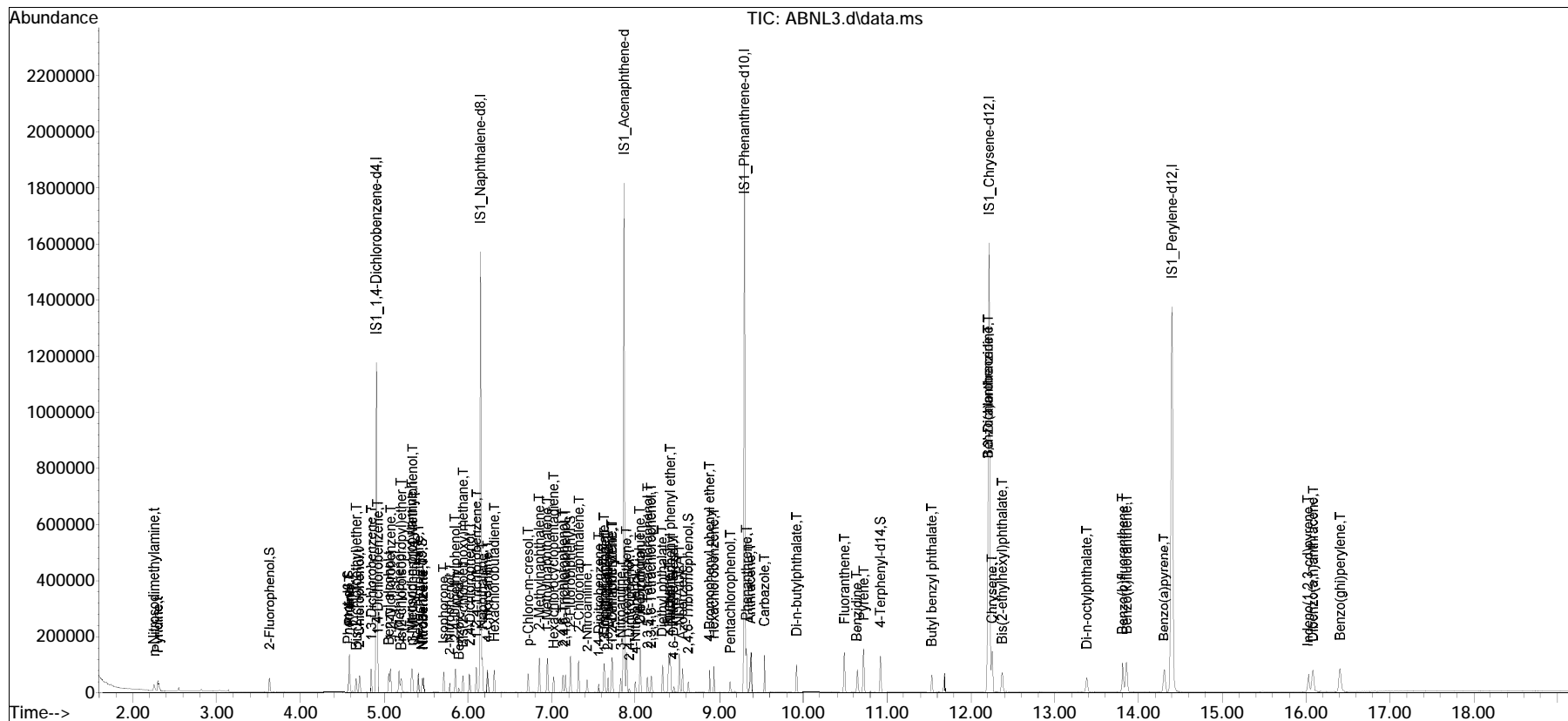
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL3.d
 Acq On : 16 May 2023 12:03 am
 Operator : SV103:jg
 Sample : IL8,32,,ABNL3 Lot# 9948
 Misc : WG1779694,,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 16 13:19:19 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:19:42 2023
 Response via : Initial Calibration

Sub List : ABNical_REV1 - ABN ical sublistBNL7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ABNL3.d Operator : SV103:jg
Date Inj'd : 5/16/2023 12:03 am Instrument : SV103
Sample : IL8,32,,ABNL3 Lot# 9948 Quant Date : 5/16/2023 1:19 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL2.d
 Acq On : 16 May 2023 12:27 am
 Operator : SV103:jg
 Sample : IL9,32,,ABNL2 Lot# 9949
 Misc : WG1779694,,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 16 13:18:35 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:18:58 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.906	152	154652	40.000	ug/ml	0.00
Standard Area 1 = 149101			Recovery =	103.72%		
35) IS1_Naphthalene-d8	6.147	136	580615	40.000	ug/ml	0.00
Standard Area 1 = 573599			Recovery =	101.22%		
63) IS1_Acenaphthene-d10	7.861	164	296536	40.000	ug/ml	0.00
Standard Area 1 = 309536			Recovery =	95.80%		
88) IS1_Phenanthrene-d10	9.301	188	606192	40.000	ug/ml	0.00
Standard Area 1 = 631294			Recovery =	96.02%		
104) IS1_Chrysene-d12	12.217	240	555788	40.000	ug/ml	0.00
Standard Area 1 = 581246			Recovery =	95.62%		
113) IS1_Perylene-d12	14.405	264	659269	40.000	ug/ml	0.00
Standard Area 1 = 674505			Recovery =	97.74%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.630	112	8404	1.950	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	3.90%#		
7) Phenol-d6	4.573	99	10168	1.892	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	3.78%#		
19) Nitrobenzene-d5	5.448	82	8175	1.833	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	7.33%#		
46) 2-Fluorobiphenyl	7.219	172	21134	1.936	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	7.74%#		
79) 2,4,6-Tribromophenol	8.625	330	2563	1.624	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	3.25%#		
96) 4-Terphenyl-d14	10.921	244	28658	2.032	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	8.13%#		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	2.258	74	5184	1.880	ug/ml#	98
3) Pyridine	2.303	79	8899	1.944	ug/ml	85
5) Aniline	4.585	93	13286	1.890	ug/ml#	65
6) 2-Chlorophenol	4.701	128	9156	1.828	ug/ml	91
8) Phenol	4.585	94	11529	1.878	ug/ml#	56
9) Bis(2-chloroethyl)ether	4.664	93	8567	1.976	ug/ml	91
10) 1,3-Dichlorobenzene	4.852	146	11293	1.928	ug/ml	96
11) 1,4-Dichlorobenzene	4.923	146	12083	2.019	ug/ml	92
12) 1,2-Dichlorobenzene	5.073	146	11433	2.014	ug/ml	93
13) Benzyl alcohol	5.054	79	6039	1.768	ug/ml#	88
14) Bis(2-chloroisopropyl)...	5.198	45	13517	1.949	ug/ml#	71

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL2.d
 Acq On : 16 May 2023 12:27 am
 Operator : SV103:jg
 Sample : IL9,32,,ABNL2 Lot# 9949
 Misc : WG1779694,,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 16 13:18:35 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:18:58 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.179	108	7842	1.833	ug/ml	99
16) Hexachloroethane	5.403	117	4147	2.021	ug/ml	88
17) n-Nitrosodi-n-propylamine	5.323	70	5521	1.846	ug/ml#	92
18) 3-Methylphenol/4-Methy...	5.332	108	8322	1.844	ug/ml	97
20) Nitrobenzene	5.468	77	8231	1.829	ug/ml	93
21) Isophorone	5.707	82	14982	1.838	ug/ml	96
22) 2-Nitrophenol	5.784	139	3317	1.509	ug/ml#	83
23) 2,4-Dimethylphenol	5.849	107	8552	1.852	ug/ml	95
24) Bis(2-chloroethoxy)met...	5.937	93	10099	1.908	ug/ml#	96
25) 2,4-Dichlorophenol	6.020	162	7168	1.752	ug/ml	94
26) 1,2,4-Trichlorobenzene	6.099	180	9231	1.985	ug/ml	98
36) Naphthalene	6.167	128	30727	2.012	ug/ml	100
37) Benzoic Acid	5.892	105	1445	4.124	ug/ml	93
38) 4-Chloroaniline	6.233	65	3084	1.951	ug/ml#	55
39) Hexachlorobutadiene	6.315	225	5063	2.005	ug/ml	94
40) p-Chloro-m-cresol	6.724	107	6396	1.672	ug/ml#	86
41) 2-Methylnaphthalene	6.849	142	18184	1.912	ug/ml	97
42) 1-Methylnaphthalene	6.940	115	5441	1.832	ug/ml#	61
43) Hexachlorocyclopentadiene	7.017	237	4740	1.727	ug/ml#	93
44) 2,4,6-Trichlorophenol	7.133	196	4318	1.592	ug/ml	98
45) 2,4,5-Trichlorophenol	7.162	196	5390	1.759	ug/ml	94
47) 2-Chloronaphthalene	7.318	162	17819	1.904	ug/ml	97
48) 2-Nitroaniline	7.423	138	4218	1.440	ug/ml#	83
49) 1,4-Dinitrobenzene	7.557	168	1619	1.168	ug/ml	81
50) 1,3-Dinitrobenzene	7.631	168	1893	2.379	ug/ml	90
51) Dimethyl phthalate	7.622	163	19496	1.810	ug/ml	99
52) Acenaphthylene	7.719	152	26621	1.850	ug/ml	99
53) 2,6-Dinitrotoluene	7.665	165	3300	1.491	ug/ml#	85
54) 1,2-Dinitrobenzene	7.713	168	1393	1.428	ug/ml	96
64) 3-Nitroaniline	7.824	138	3816	1.462	ug/ml#	98
65) Acenaphthene	7.889	154	17261	2.006	ug/ml	96
66) 2,4-Dinitrophenol	7.926	184	795	3.307	ug/ml#	38
67) Dibenzofuran	8.060	168	27037	2.028	ug/ml	90
68) 2,4-Dinitrotoluene	8.057	165	4366	1.532	ug/ml	90
69) 4-Nitrophenol	8.003	65	2429	1.431	ug/ml#	71
70) 2,3,5,6-Tetrachlorophenol	8.151	232	3789	1.631	ug/ml	93
71) 2,3,4,6-Tetrachlorophenol	8.190	232	3854	1.606	ug/ml	94
72) Diethyl phthalate	8.315	149	19128	1.841	ug/ml	97
73) Fluorene	8.392	166	20163	1.950	ug/ml	98
74) 4-Chlorophenyl phenyl ...	8.409	204	9554	1.955	ug/ml	89

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL2.d
 Acq On : 16 May 2023 12:27 am
 Operator : SV103:jg
 Sample : IL9,32,,ABNL2 Lot# 9949
 Misc : WG1779694,,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 16 13:18:35 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:18:58 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	8.412	138	4310	1.628	ug/ml	83
76) 4,6-Dinitro-o-cresol	8.449	198	1251	3.115	ug/ml	86
77) NDPA/DPA	8.523	169	17126	1.938	ug/ml	95
78) Azobenzene	8.560	77	16644	1.877	ug/ml#	91
80) 4-Bromophenyl phenyl e...	8.881	248	5464	1.880	ug/ml#	89
81) Hexachlorobenzene	8.935	284	6984	1.968	ug/ml#	91
82) Pentachlorophenol	9.128	266	2586	2.986	ug/ml	95
89) Phenanthrene	9.324	178	34336	2.055	ug/ml	99
90) Anthracene	9.373	178	32148	1.953	ug/ml	99
91) Carbazole	9.537	167	29097	1.887	ug/ml	98
92) Di-n-butylphthalate	9.921	149	26941	1.627	ug/ml	99
93) Fluoranthene	10.489	202	33855	1.931	ug/ml	96
94) Benzidine	10.645	184	16907	1.530	ug/ml	96
95) Pyrene	10.719	202	36920	1.958	ug/ml	99
97) Butyl benzyl phthalate	11.535	149	8715	2.881	ug/ml	91
105) Benzo(a)anthracene	12.205	228	36817	2.000	ug/ml	99
106) 3,3'-Dichlorobenzidine	12.203	252	10090	1.501	ug/ml#	96
107) Chrysene	12.248	228	38569	2.093	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	12.373	149	13271	2.401	ug/ml#	97
109) Di-n-octylphthalate	13.379	149	19023	3.232	ug/ml#	97
110) Benzo(b)fluoranthene	13.811	252	33843	1.894	ug/ml	99
111) Benzo(k)fluoranthene	13.853	252	35066M4	1.913	ug/ml	
112) Benzo(a)pyrene	14.308	252	27107	1.759	ug/ml	97
114) Indeno(1,2,3-cd)pyrene	16.024	276	23105	1.643	ug/mL	96
115) Dibenzo(a,h)anthracene	16.078	278	28906	1.715	ug/ml	96
116) Benzo(ghi)perylene	16.402	276	30369	1.769	ug/ml	92

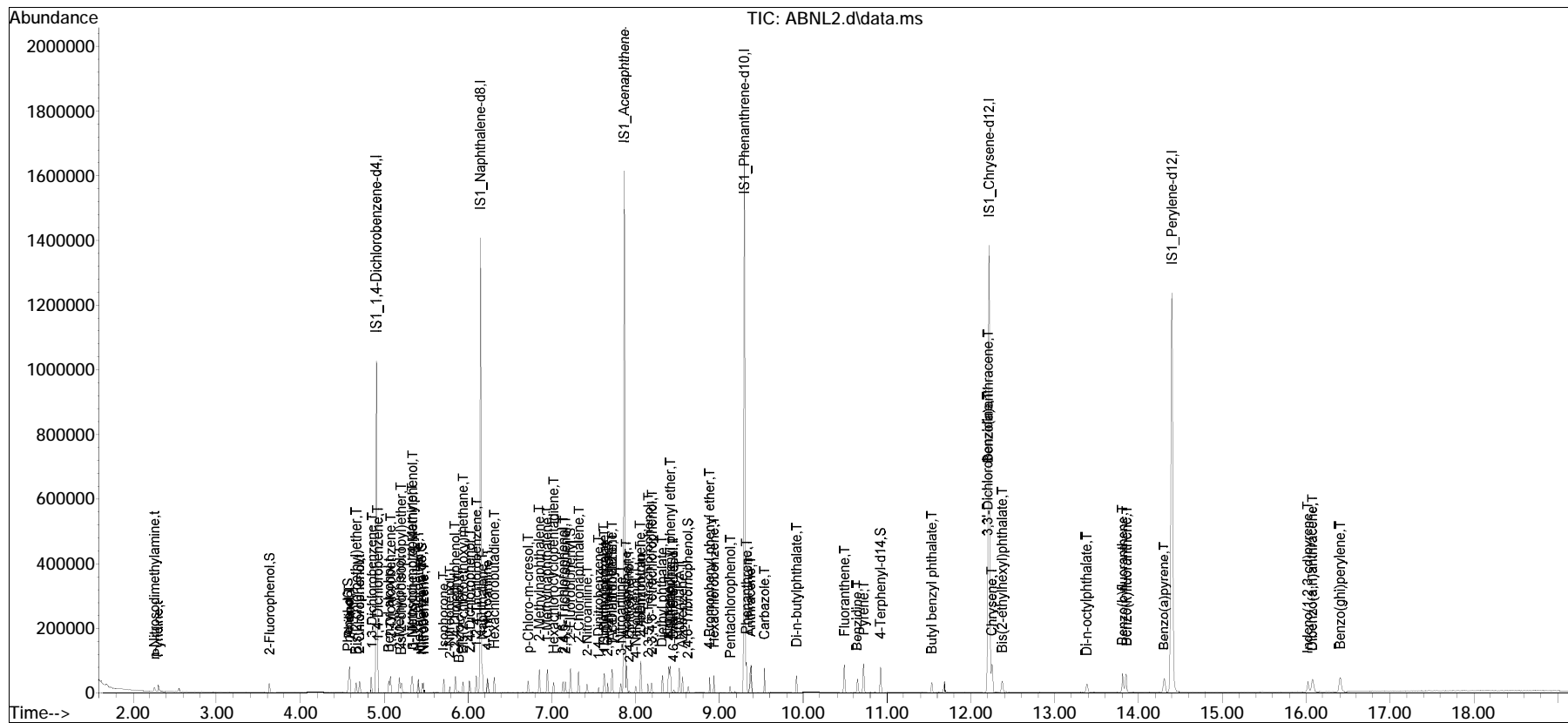
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL2.d
 Acq On : 16 May 2023 12:27 am
 Operator : SV103:jg
 Sample : IL9,32,,ABNL2 Lot# 9949
 Misc : WG1779694,,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 16 13:18:35 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:18:58 2023
 Response via : Initial Calibration

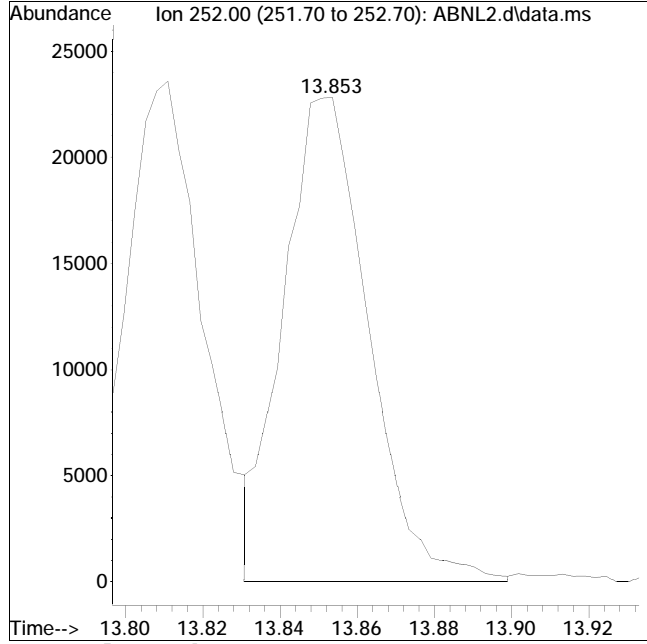
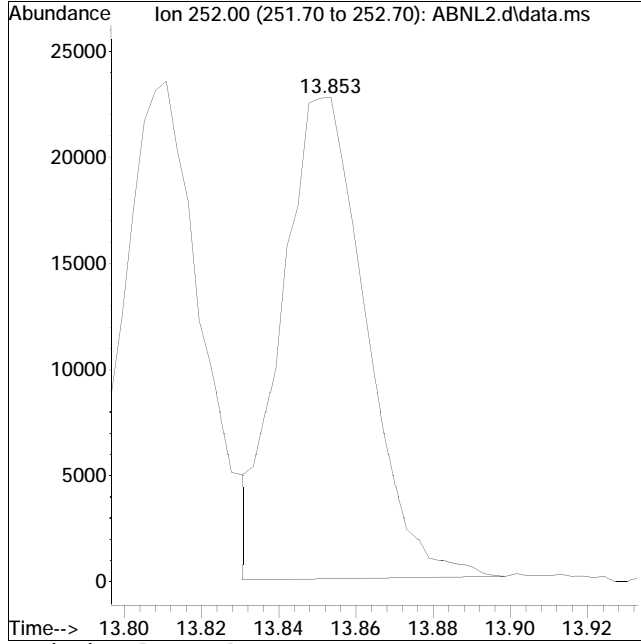
Sub List : ABNical_REV1 - ABN ical sublistBNL7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ABNL2.d Operator : SV103:jg
Date Inj'd : 5/16/2023 12:27 am Instrument : SV103
Sample : IL9,32,,ABNL2 Lot# 9949 Quant Date : 5/16/2023 1:18 pm

Compound #111: Benzo(k)fluoranthene



Original Peak Response = 34227

Manual Peak Response = 35066 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL1.d
 Acq On : 16 May 2023 12:51 am
 Operator : SV103:jg
 Sample : IL10,32,,ABNL1 Lot# 9950
 Misc : WG1779694,,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 16 12:59:33 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.908	152	151493	40.000	ug/ml	0.00	
Standard Area 1 = 149101			Recovery = 101.60%				
35) IS1_Naphthalene-d8	6.147	136	558792	40.000	ug/ml	0.00	
Standard Area 1 = 573599			Recovery = 97.42%				
63) IS1_Acenaphthene-d10	7.861	164	282288	40.000	ug/ml	0.00	
Standard Area 1 = 309536			Recovery = 91.20%				
88) IS1_Phenanthrene-d10	9.301	188	561545	40.000	ug/ml	0.00	
Standard Area 1 = 631294			Recovery = 88.95%				
104) IS1_Chrysene-d12	12.216	240	505989	40.000	ug/ml	0.00	
Standard Area 1 = 581246			Recovery = 87.05%				
113) IS1_Perylene-d12	14.402	264	609554	40.000	ug/ml	0.00	
Standard Area 1 = 674505			Recovery = 90.37%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.632	112	3753	0.918	ug/ml	0.00	
Spiked Amount 50.000	Range 15 - 110		Recovery = 1.84%#				
7) Phenol-d6	4.573	99	4865	0.858	ug/ml	0.00	
Spiked Amount 50.000	Range 15 - 110		Recovery = 1.72%#				
19) Nitrobenzene-d5	5.448	82	3845	0.791	ug/ml	0.00	
Spiked Amount 25.000	Range 30 - 130		Recovery = 3.16%#				
46) 2-Fluorobiphenyl	7.218	172	9925	0.893	ug/ml	0.00	
Spiked Amount 25.000	Range 30 - 130		Recovery = 3.57%#				
79) 2,4,6-Tribromophenol	8.628	330	723	0.432	ug/ml	0.00	
Spiked Amount 50.000	Range 15 - 110		Recovery = 0.86%#				
96) 4-Terphenyl-d14	10.921	244	12628	0.912	ug/ml	0.00	
Spiked Amount 25.000	Range 30 - 130		Recovery = 3.65%#				
Target Compounds							
							Qvalue
2) n-Nitrosodimethylamine	2.257	74	2562	0.902	ug/ml#		94
3) Pyridine	2.311	79	4105	0.991	ug/ml		87
5) Aniline	4.584	93	6441	0.865	ug/ml#		67
6) 2-Chlorophenol	4.701	128	4461	0.840	ug/ml		94
8) Phenol	4.587	94	5535	0.857	ug/ml#		61
9) Bis(2-chloroethyl)ether	4.667	93	4131	0.921	ug/ml		90
10) 1,3-Dichlorobenzene	4.851	146	6025	1.010	ug/ml		94
11) 1,4-Dichlorobenzene	4.925	146	5862	0.970	ug/ml		93
12) 1,2-Dichlorobenzene	5.070	146	5386	0.920	ug/ml		92
13) Benzyl alcohol	5.053	79	2660	0.706	ug/ml#		79
14) Bis(2-chloroisopropyl)...	5.204	45	6359	0.875	ug/ml#		73

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL1.d
 Acq On : 16 May 2023 12:51 am
 Operator : SV103:jg
 Sample : IL10,32,,ABNL1 Lot# 9950
 Misc : WG1779694,,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 16 12:59:33 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.178	108	3806	0.835	ug/ml#	97
16) Hexachloroethane	5.403	117	1746	0.824	ug/ml	90
17) n-Nitrosodi-n-propylamine	5.323	70	2699	0.838	ug/ml#	91
18) 3-Methylphenol/4-Methy...	5.335	108	3993	0.825	ug/ml#	95
20) Nitrobenzene	5.468	77	3668	0.745	ug/ml#	88
21) Isophorone	5.710	82	6695	0.750	ug/ml#	90
22) 2-Nitrophenol	5.783	139	1493	0.604	ug/ml#	65
23) 2,4-Dimethylphenol	5.849	107	3919	0.783	ug/ml	89
24) Bis(2-chloroethoxy)met...	5.940	93	4753	0.848	ug/ml#	89
25) 2,4-Dichlorophenol	6.019	162	3161	0.699	ug/ml	93
26) 1,2,4-Trichlorobenzene	6.102	180	4468	0.934	ug/ml	94
36) Naphthalene	6.167	128	14972	0.981	ug/ml	97
37) Benzoic Acid	0.000		0	N.D.		
38) 4-Chloroaniline	6.232	65	1369	0.842	ug/ml#	53
39) Hexachlorobutadiene	6.315	225	2331	0.929	ug/ml	89
40) p-Chloro-m-cresol	6.724	107	3053	0.741	ug/ml	88
41) 2-Methylnaphthalene	6.849	142	8438	0.867	ug/ml	95
42) 1-Methylnaphthalene	6.943	115	2631	0.876	ug/ml#	67
43) Hexachlorocyclopentadiene	7.019	237	1956	0.685	ug/ml#	91
44) 2,4,6-Trichlorophenol	7.133	196	2042	0.682	ug/ml	90
45) 2,4,5-Trichlorophenol	7.162	196	2339	0.706	ug/ml#	91
47) 2-Chloronaphthalene	7.318	162	8475	0.881	ug/ml	97
48) 2-Nitroaniline	7.426	138	1635	0.514	ug/ml#	86
49) 1,4-Dinitrobenzene	7.557	168	780	0.552	ug/ml#	75
50) 1,3-Dinitrobenzene	7.633	168	755	0.457	ug/ml	96
51) Dimethyl phthalate	7.622	163	9213	0.808	ug/ml#	96
52) Acenaphthylene	7.718	152	11964	0.783	ug/ml	99
53) 2,6-Dinitrotoluene	7.667	165	1153	0.469	ug/ml	96
54) 1,2-Dinitrobenzene	7.710	168	531	0.497	ug/ml	86
64) 3-Nitroaniline	7.824	138	1672	0.611	ug/ml#	95
65) Acenaphthene	7.892	154	8381	0.996	ug/ml	95
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	8.059	168	12825	0.975	ug/ml	89
68) 2,4-Dinitrotoluene	8.059	165	1777	0.567	ug/ml	94
69) 4-Nitrophenol	8.003	65	1080	0.597	ug/ml#	81
70) 2,3,5,6-Tetrachlorophenol	8.150	232	1457	0.580	ug/ml#	94
71) 2,3,4,6-Tetrachlorophenol	8.190	232	1535	0.609	ug/ml	97
72) Diethyl phthalate	8.315	149	8415	0.773	ug/ml	99
73) Fluorene	8.392	166	9158	0.870	ug/ml	98
74) 4-Chlorophenyl phenyl ...	8.409	204	4531	0.927	ug/ml#	86

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL1.d
 Acq On : 16 May 2023 12:51 am
 Operator : SV103:jg
 Sample : IL10,32,,ABNL1 Lot# 9950
 Misc : WG1779694,,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 16 12:59:33 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	8.415	138	1695	0.615	ug/ml#	81
76) 4,6-Dinitro-o-cresol	8.449	198	428M2	0.316	ug/ml	
77) NDPA/DPA	8.523	169	7699	0.849	ug/ml	98
78) Azobenzene	8.560	77	7510	0.817	ug/ml	95
80) 4-Bromophenyl phenyl e...	8.881	248	2526	0.861	ug/ml	87
81) Hexachlorobenzene	8.937	284	3185	0.903	ug/ml	94
82) Pentachlorophenol	9.128	266	868	0.422	ug/ml#	60
89) Phenanthrene	9.324	178	16042	1.006	ug/ml	98
90) Anthracene	9.372	178	14731	0.911	ug/ml	98
91) Carbazole	9.537	167	14013	0.919	ug/ml	97
92) Di-n-butylphthalate	9.921	149	11354	0.626	ug/ml	99
93) Fluoranthene	10.486	202	15677	0.897	ug/ml	98
94) Benzidine	10.642	184	6797	0.569	ug/ml	96
95) Pyrene	10.719	202	17646	0.947	ug/ml	99
97) Butyl benzyl phthalate	11.532	149	3724	0.476	ug/ml	90
105) Benzo(a)anthracene	12.205	228	18140	1.044	ug/ml	98
106) 3,3'-Dichlorobenzidine	12.205	252	4310	0.621	ug/ml#	87
107) Chrysene	12.253	228	19933	1.191	ug/ml	98
108) Bis(2-ethylhexyl)phtha...	12.373	149	5575	0.457	ug/ml#	95
109) Di-n-octylphthalate	13.381	149	8137	0.401	ug/ml#	88
110) Benzo(b)fluoranthene	13.811	252	15378	0.882	ug/ml	99
111) Benzo(k)fluoranthene	13.850	252	15884	0.876	ug/ml	98
112) Benzo(a)pyrene	14.308	252	12285	0.790	ug/ml	100
114) Indeno(1,2,3-cd)pyrene	16.024	276	10057	0.689	ug/mL	95
115) Dibenzo(a,h)anthracene	16.081	278	12900	0.742	ug/ml	96
116) Benzo(ghi)perylene	16.405	276	13933	0.812	ug/ml#	81

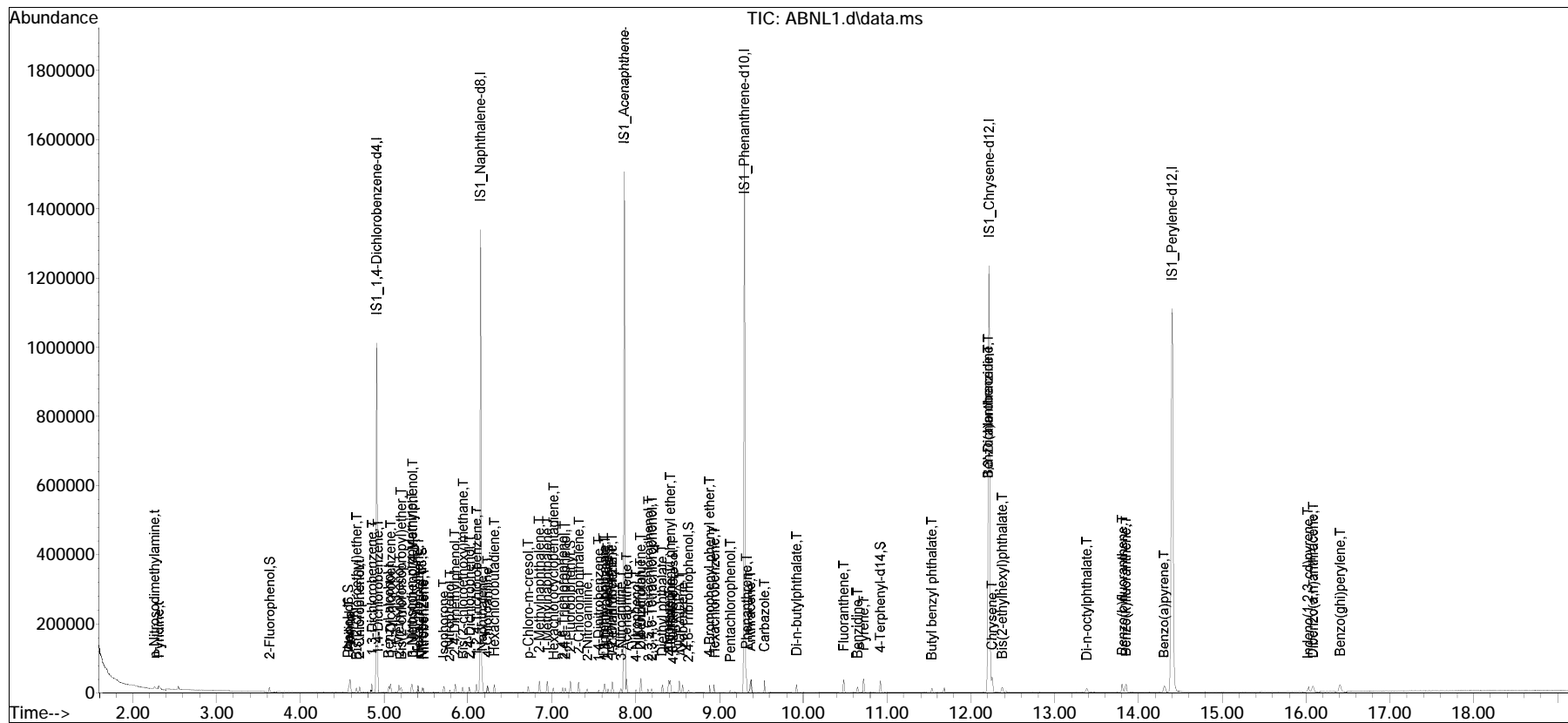
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNL1.d
 Acq On : 16 May 2023 12:51 am
 Operator : SV103:jg
 Sample : IL10,32,,ABNL1 Lot# 9950
 Misc : WG1779694,,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 16 12:59:33 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

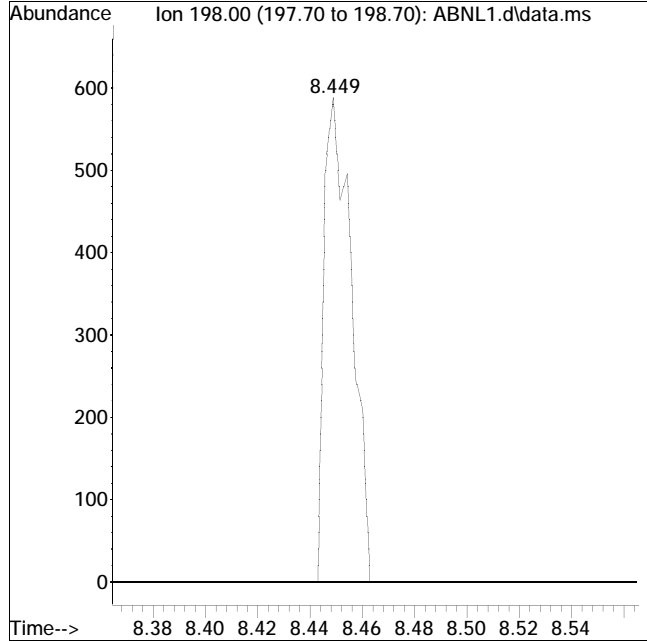
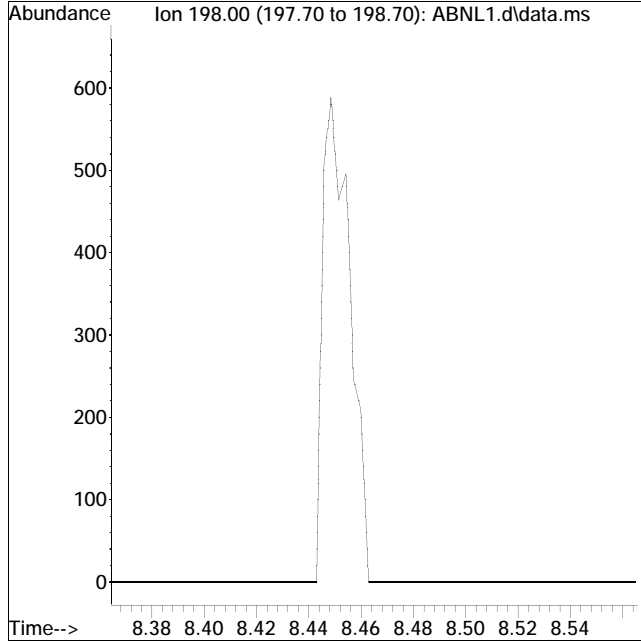
Sub List : ABNical_REV1 - ABN ical sublistBNL7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ABNL1.d Operator : SV103:jg
Date Inj'd : 5/16/2023 12:51 am Instrument : SV103
Sample : IL10,32,,ABNL1 Lot# 9950 Quant Date : 5/16/2023 12:52 pm

Compound #76: 4,6-Dinitro-o-cresol



Original Peak Response = 0

Manual Peak Response = 428 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : AP9L10.d
 Acq On : 16 May 2023 1:14 am
 Operator : SV103:jg
 Sample : IL11,32,,AP9L200 Lot# 10065
 Misc : WG1779694,,
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 16 13:10:18 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\AP9L7.d
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.909	152	162158	40.000	ug/ml	0.00
Standard Area 1 = 199831			Recovery	=	81.15%	
55) IS2_Naphthalene-d8	6.147	136	614401	40.000	ug/ml	0.00
Standard Area 1 = 817739			Recovery	=	75.13%	
83) IS2_Acenaphthene-d10	7.861	164	322774	40.000	ug/ml	0.00
Standard Area 1 = 455152			Recovery	=	70.92%	
98) IS2_Phenanthrene-d10	9.301	188	675933	40.000	ug/ml	0.00
Standard Area 1 = 918145			Recovery	=	73.62%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.474	105	517288	141.956	ug/ml	99
29) Acetophenone	5.309	105	1433417	189.085	ug/ml	95
30) m-Toluidine	5.389	106	1059862	156.097	ug/ml	99
31) 2-Chloroaniline	5.752	127	1310954	188.690	ug/ml	99
56) a-Terpineol	6.207	59	761633	200.809	ug/ml	89
57) 3-Chloroaniline	6.218	65	338165	178.496	ug/ml	97
58) 2,6-Dichlorophenol	6.247	162	888557	204.888	ug/ml	94
59) 1-chloro-2-nitrobenzene	6.503	111	411981	205.656	ug/ml	96
60) Caprolactam	6.559	55	454468	198.659	ug/ml	96
61) 1,2,4,5-Tetrachloroben...	7.020	216	930385	196.327	ug/ml	99
62) Biphenyl	7.312	154	2519070	190.878	ug/ml	98
84) Dichloran	8.997	206	289823	236.186	ug/ml	88
85) Pentachloronitrobenzene	9.148	237	260137	217.342	ug/ml#	87
99) Diphenamid	10.211	167	1692310	215.813	ug/ml#	80

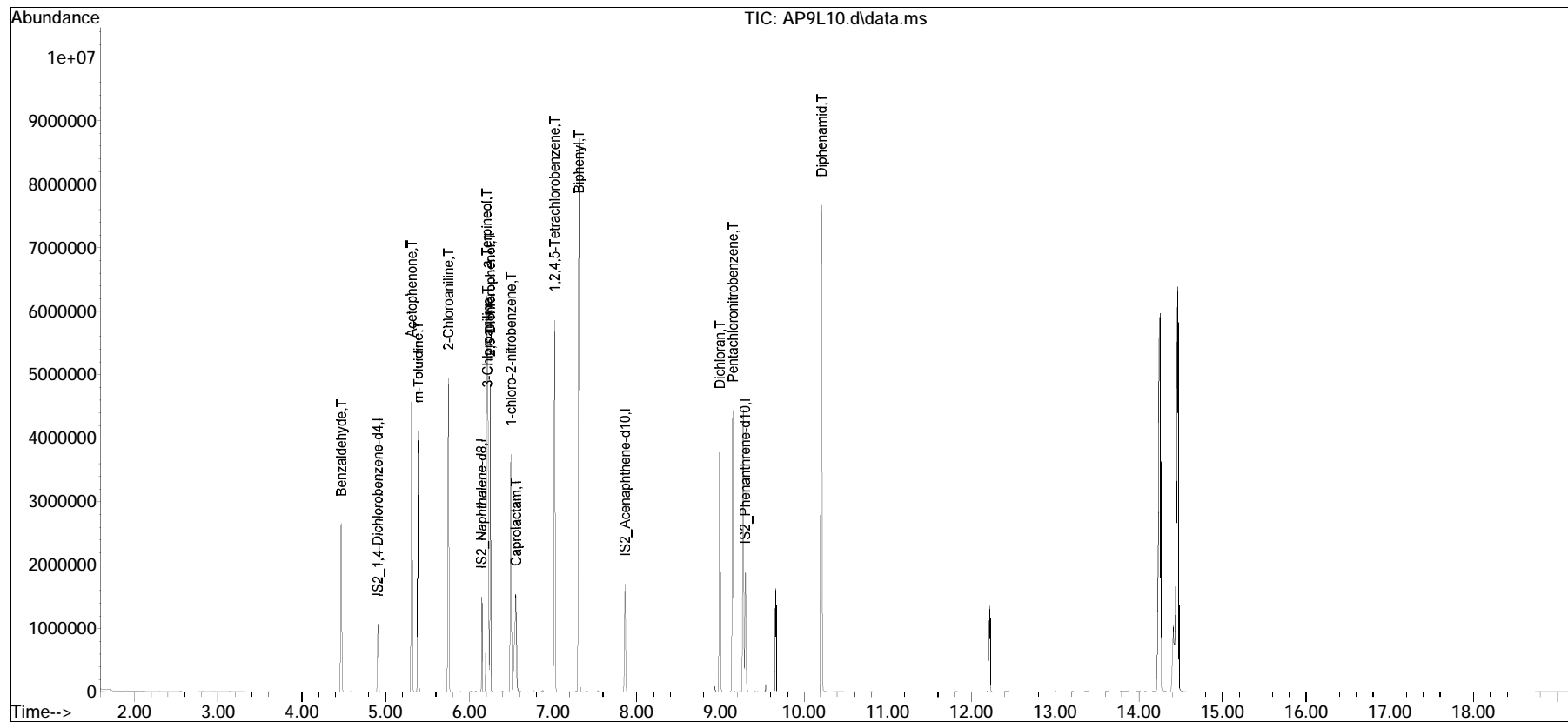
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : AP9L10.d
 Acq On : 16 May 2023 1:14 am
 Operator : SV103:jg
 Sample : IL11,32,,AP9L200 Lot# 10065
 Misc : WG1779694,,
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 16 13:10:18 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : AP9L10.d Operator : SV103:jg
Date Inj'd : 5/16/2023 1:14 am Instrument : SV103
Sample : IL11,32,,AP9L200 Lot# 1006Quant Date : 5/16/2023 12:53 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : AP9L9.d
 Acq On : 16 May 2023 1:37 am
 Operator : SV103:jg
 Sample : IL12,32,,AP9L150 Lot# 10066
 Misc : WG1779694,,
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 16 13:13:08 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\AP9L7.d
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.908	152	184941	40.000	ug/ml	0.00
Standard Area 1 = 199831			Recovery	=	92.55%	
55) IS2_Naphthalene-d8	6.147	136	703560	40.000	ug/ml	0.00
Standard Area 1 = 817739			Recovery	=	86.04%	
83) IS2_Acenaphthene-d10	7.861	164	364531	40.000	ug/ml	0.00
Standard Area 1 = 455152			Recovery	=	80.09%	
98) IS2_Phenanthrene-d10	9.301	188	724394	40.000	ug/ml	0.00
Standard Area 1 = 918145			Recovery	=	78.90%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.471	105	546474	131.491	ug/ml	98
29) Acetophenone	5.309	105	1211647	140.142	ug/ml	95
30) m-Toluidine	5.389	106	1019880	131.704	ug/ml	99
31) 2-Chloroaniline	5.752	127	1112304	140.375	ug/ml	100
56) a-Terpineol	6.207	59	645570	148.638	ug/ml	89
57) 3-Chloroaniline	6.218	65	297959	137.343	ug/ml	98
58) 2,6-Dichlorophenol	6.247	162	733031	147.606	ug/ml	93
59) 1-chloro-2-nitrobenzene	6.500	111	342400	149.262	ug/ml	96
60) Caprolactam	6.554	55	372045	142.020	ug/ml	95
61) 1,2,4,5-Tetrachloroben...	7.020	216	779187	143.585	ug/ml	98
62) Biphenyl	7.312	154	2100744	139.008	ug/ml	99
84) Dichloran	8.994	206	223690	161.411	ug/ml	87
85) Pentachloronitrobenzene	9.145	237	202790	150.021	ug/ml#	88
99) Diphenamid	10.208	167	1267254	150.796	ug/ml#	80

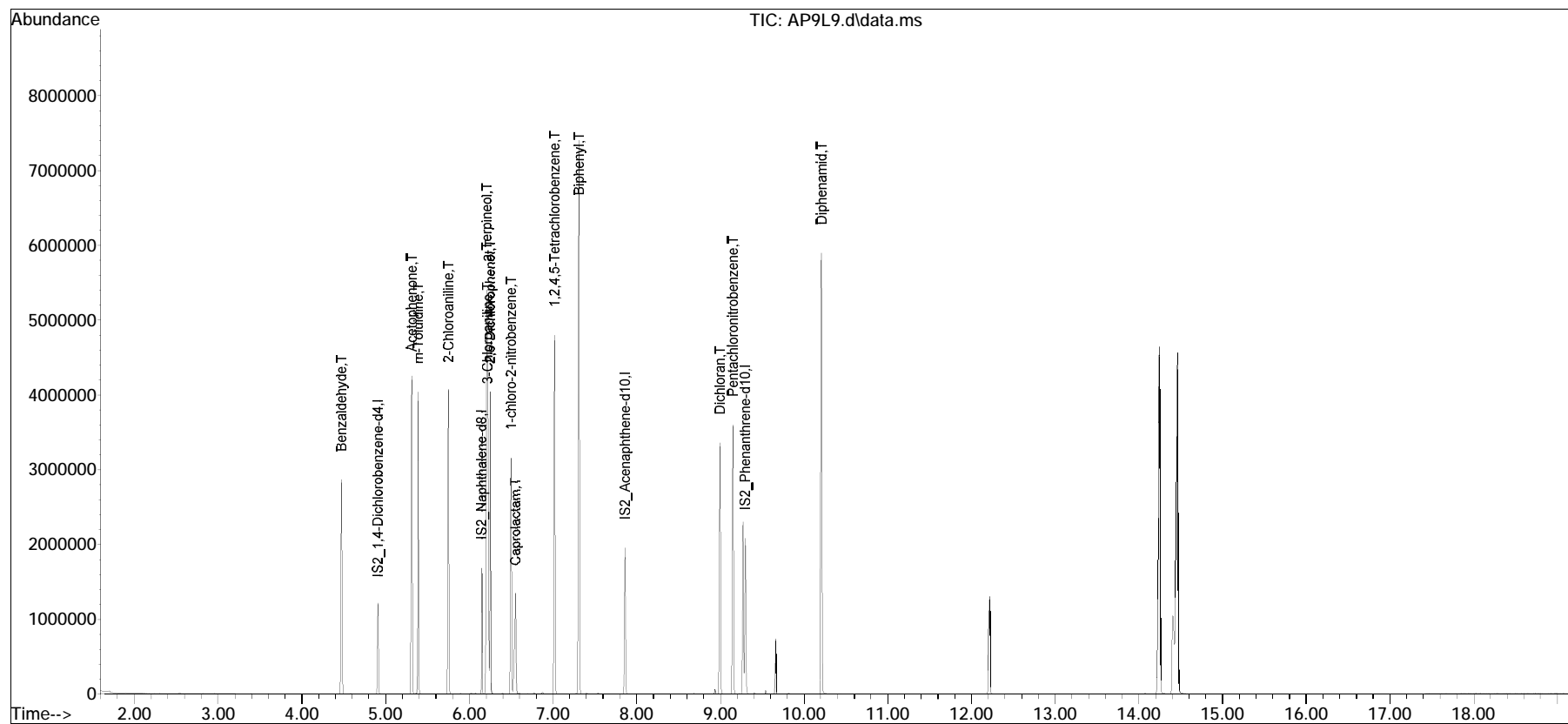
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : AP9L9.d
 Acq On : 16 May 2023 1:37 am
 Operator : SV103:jg
 Sample : IL12,32,,AP9L150 Lot# 10066
 Misc : WG1779694,,
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 16 13:13:08 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : AP9L9.d Operator : SV103:jg
Date Inj'd : 5/16/2023 1:37 am Instrument : SV103
Sample : IL12,32,,AP9L150 Lot# 1006Quant Date : 5/16/2023 12:54 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : AP9L8.d
 Acq On : 16 May 2023 2:01 am
 Operator : SV103:jg
 Sample : IL13,32,,AP9L100 Lot# 10067
 Misc : WG1779694,,
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 16 13:12:40 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\AP9L7.d
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.908	152	192229	40.000	ug/ml	0.00
Standard Area 1 = 199831			Recovery	=	96.20%	
55) IS2_Naphthalene-d8	6.147	136	729808	40.000	ug/ml	0.00
Standard Area 1 = 817739			Recovery	=	89.25%	
83) IS2_Acenaphthene-d10	7.861	164	378594	40.000	ug/ml	0.00
Standard Area 1 = 455152			Recovery	=	83.18%	
98) IS2_Phenanthrene-d10	9.301	188	753972	40.000	ug/ml	0.00
Standard Area 1 = 918145			Recovery	=	82.12%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.471	105	393246	91.034	ug/ml	98
29) Acetophenone	5.306	105	839345	93.400	ug/ml	95
30) m-Toluidine	5.389	106	719170	89.350	ug/ml	99
31) 2-Chloroaniline	5.749	127	765380	92.930	ug/ml	99
56) a-Terpineol	6.204	59	443684	98.481	ug/ml	89
57) 3-Chloroaniline	6.215	65	209389	93.046	ug/ml	96
58) 2,6-Dichlorophenol	6.244	162	503501	97.740	ug/ml	93
59) 1-chloro-2-nitrobenzene	6.500	111	232844	97.852	ug/ml	96
60) Caprolactam	6.548	55	254150	93.527	ug/ml	96
61) 1,2,4,5-Tetrachloroben...	7.017	216	535433	95.118	ug/ml	98
62) Biphenyl	7.312	154	1460416	93.161	ug/ml	99
84) Dichloran	8.994	206	151694	105.394	ug/ml	87
85) Pentachloronitrobenzene	9.145	237	138583	98.714	ug/ml	89
99) Diphenamid	10.208	167	895203	102.345	ug/ml#	80

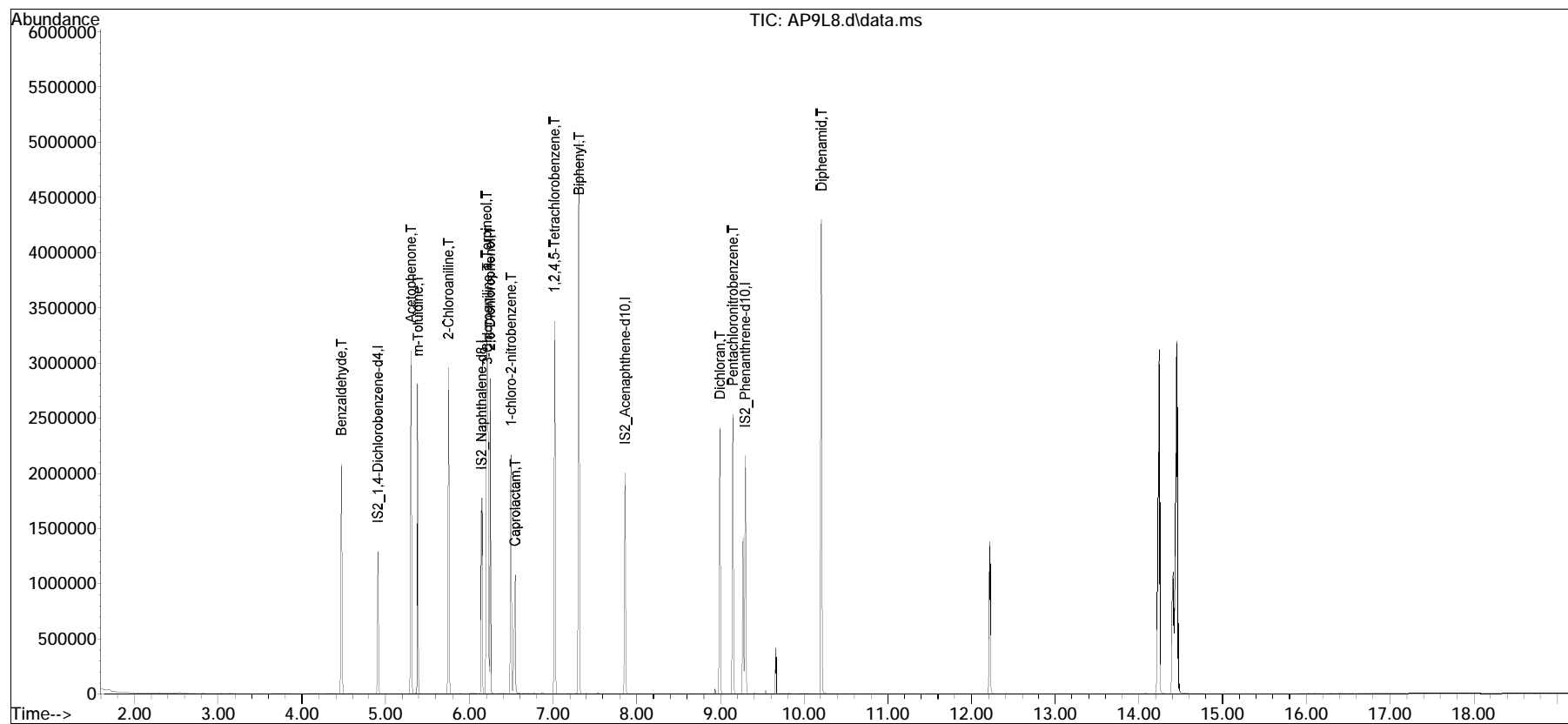
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : AP9L8.d
Acq On : 16 May 2023 2:01 am
Operator : SV103:jg
Sample : IL13,32,,AP9L100 Lot# 10067
Misc : WG1779694,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 16 13:12:40 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 12:51:16 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : AP9L8.d Operator : SV103:jg
Date Inj'd : 5/16/2023 2:01 am Instrument : SV103
Sample : IL13,32,,AP9L100 Lot# 1006Quant Date : 5/16/2023 12:54 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : AP9L7.d
 Acq On : 16 May 2023 2:24 am
 Operator : SV103:jg
 Sample : IL14,32,,AP9L50 Lot# 10068
 Misc : WG1779694,,
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 16 13:12:16 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\AP9L7.d
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.906	152	199831	40.000	ug/ml	0.00
Standard Area 1 = 199831			Recovery	=	100.00%	
55) IS2_Naphthalene-d8	6.147	136	817739	40.000	ug/ml	0.00
Standard Area 1 = 817739			Recovery	=	100.00%	
83) IS2_Acenaphthene-d10	7.861	164	455152	40.000	ug/ml	0.00
Standard Area 1 = 455152			Recovery	=	100.00%	
98) IS2_Phenanthrene-d10	9.301	188	918145	40.000	ug/ml	0.00
Standard Area 1 = 918145			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.471	105	224529	50.000	ug/ml	98
29) Acetophenone	5.306	105	467099	50.000	ug/ml	94
30) m-Toluidine	5.386	106	418243	49.986	ug/ml	98
31) 2-Chloroaniline	5.749	127	428088	50.000	ug/ml	100
56) a-Terpineol	6.201	59	252021	49.924	ug/ml	89
57) 3-Chloroaniline	6.215	65	121960	48.368	ug/ml	98
58) 2,6-Dichlorophenol	6.244	162	288604	50.000	ug/ml	94
59) 1-chloro-2-nitrobenzene	6.497	111	133312	50.000	ug/ml	96
60) Caprolactam	6.539	55	152240	50.000	ug/ml	96
61) 1,2,4,5-Tetrachloroben...	7.017	216	315367	50.000	ug/ml	98
62) Biphenyl	7.309	154	878249	50.000	ug/ml	99
84) Dichloran	8.992	206	86518	50.000	ug/ml	87
85) Pentachloronitrobenzene	9.145	237	84389	50.000	ug/ml#	88
99) Diphenamid	10.205	167	532573	50.000	ug/ml#	79

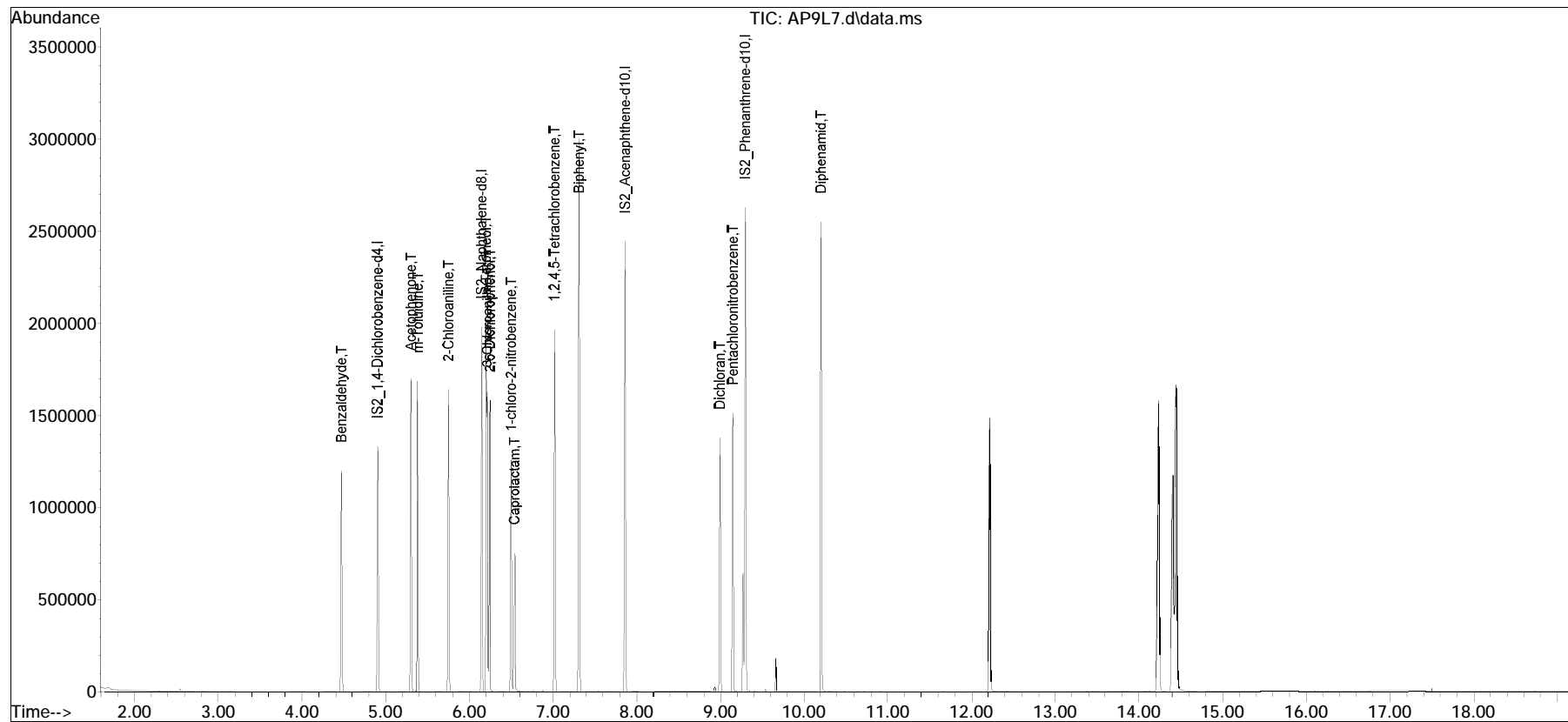
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : AP9L7.d
Acq On : 16 May 2023 2:24 am
Operator : SV103:jg
Sample : IL14,32,,AP9L50 Lot# 10068
Misc : WG1779694,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 16 13:12:16 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 12:51:16 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : AP9L7.d Operator : SV103:jg
Date Inj'd : 5/16/2023 2:24 am Instrument : SV103
Sample : IL14,32,,AP9L50 Lot# 10068 Quant Date : 5/16/2023 12:54 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : AP9L6.d
 Acq On : 16 May 2023 2:48 am
 Operator : SV103:jg
 Sample : IL15,32,,AP9L20 Lot# 10069
 Misc : WG1779694,,
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 16 13:11:58 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\AP9L7.d
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.909	152	199282	40.000	ug/ml	0.00
Standard Area 1 = 199831			Recovery	=	99.73%	
55) IS2_Naphthalene-d8	6.147	136	790140	40.000	ug/ml	0.00
Standard Area 1 = 817739			Recovery	=	96.62%	
83) IS2_Acenaphthene-d10	7.861	164	431959	40.000	ug/ml	0.00
Standard Area 1 = 455152			Recovery	=	94.90%	
98) IS2_Phenanthrene-d10	9.301	188	847588	40.000	ug/ml	0.00
Standard Area 1 = 918145			Recovery	=	92.32%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.471	105	94509	21.104	ug/ml	99
29) Acetophenone	5.306	105	181768	19.511	ug/ml	95
30) m-Toluidine	5.386	106	165849	19.876	ug/ml	99
31) 2-Chloroaniline	5.750	127	166538	19.505	ug/ml	99
56) a-Terpineol	6.199	59	94422	19.358	ug/ml	87
57) 3-Chloroaniline	6.213	65	47872	19.649	ug/ml	98
58) 2,6-Dichlorophenol	6.241	162	107061	19.196	ug/ml	93
59) 1-chloro-2-nitrobenzene	6.497	111	49374	19.165	ug/ml	97
60) Caprolactam	6.531	55	54825	18.635	ug/ml	96
61) 1,2,4,5-Tetrachloroben...	7.017	216	122442	20.091	ug/ml	97
62) Biphenyl	7.310	154	338948	19.971	ug/ml	100
84) Dichloran	8.992	206	28134	17.132	ug/ml	87
85) Pentachloronitrobenzene	9.145	237	29612	18.487	ug/ml#	87
99) Diphenamid	10.205	167	188634	19.184	ug/ml#	79

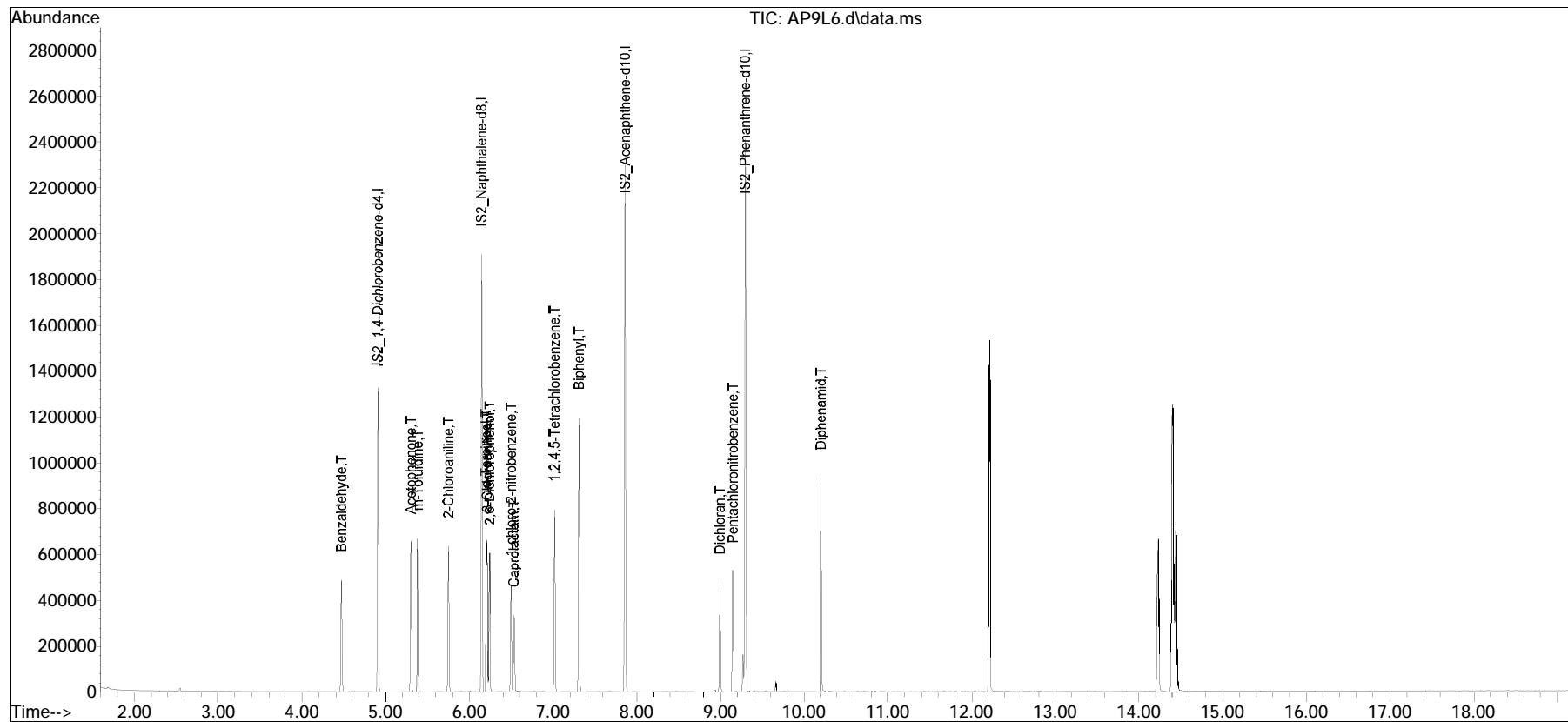
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : AP9L6.d
Acq On : 16 May 2023 2:48 am
Operator : SV103:jg
Sample : IL15,32,,AP9L20 Lot# 10069
Misc : WG1779694,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 16 13:11:58 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 12:51:16 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : AP9L6.d Operator : SV103:jg
Date Inj'd : 5/16/2023 2:48 am Instrument : SV103
Sample : IL15,32,,AP9L20 Lot# 10069Quant Date : 5/16/2023 12:54 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : AP9L5.d
 Acq On : 16 May 2023 3:11 am
 Operator : SV103:jg
 Sample : IL16,32,,AP9L10 Lot# 10070
 Misc : WG1779694,,
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 16 13:11:35 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\AP9L7.d
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.906	152	182967	40.000	ug/ml	0.00
Standard Area 1 = 199831			Recovery	=	91.56%	
55) IS2_Naphthalene-d8	6.147	136	756347	40.000	ug/ml	0.00
Standard Area 1 = 817739			Recovery	=	92.49%	
83) IS2_Acenaphthene-d10	7.861	164	449838	40.000	ug/ml	0.00
Standard Area 1 = 455152			Recovery	=	98.83%	
98) IS2_Phenanthrene-d10	9.301	188	956603	40.000	ug/ml	0.00
Standard Area 1 = 918145			Recovery	=	104.19%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.471	105	44750	10.884	ug/ml	99
29) Acetophenone	5.304	105	86594	10.124	ug/ml	94
30) m-Toluidine	5.386	106	79769	10.412	ug/ml	99
31) 2-Chloroaniline	5.747	127	78331	9.992	ug/ml	99
56) a-Terpineol	6.199	59	43574	9.332	ug/ml	86
57) 3-Chloroaniline	6.213	65	23123	9.915	ug/ml	99
58) 2,6-Dichlorophenol	6.241	162	49917	9.350	ug/ml	93
59) 1-chloro-2-nitrobenzene	6.497	111	23758	9.634	ug/ml	94
60) Caprolactam	6.525	55	26931	9.563	ug/ml	95
61) 1,2,4,5-Tetrachloroben...	7.017	216	60897	10.439	ug/ml	98
62) Biphenyl	7.310	154	170573	10.499	ug/ml	99
84) Dichloran	8.989	206	14192	8.299	ug/ml#	88
85) Pentachloronitrobenzene	9.142	237	15307	9.176	ug/ml	89
99) Diphenamid	10.202	167	110027	9.914	ug/ml#	78

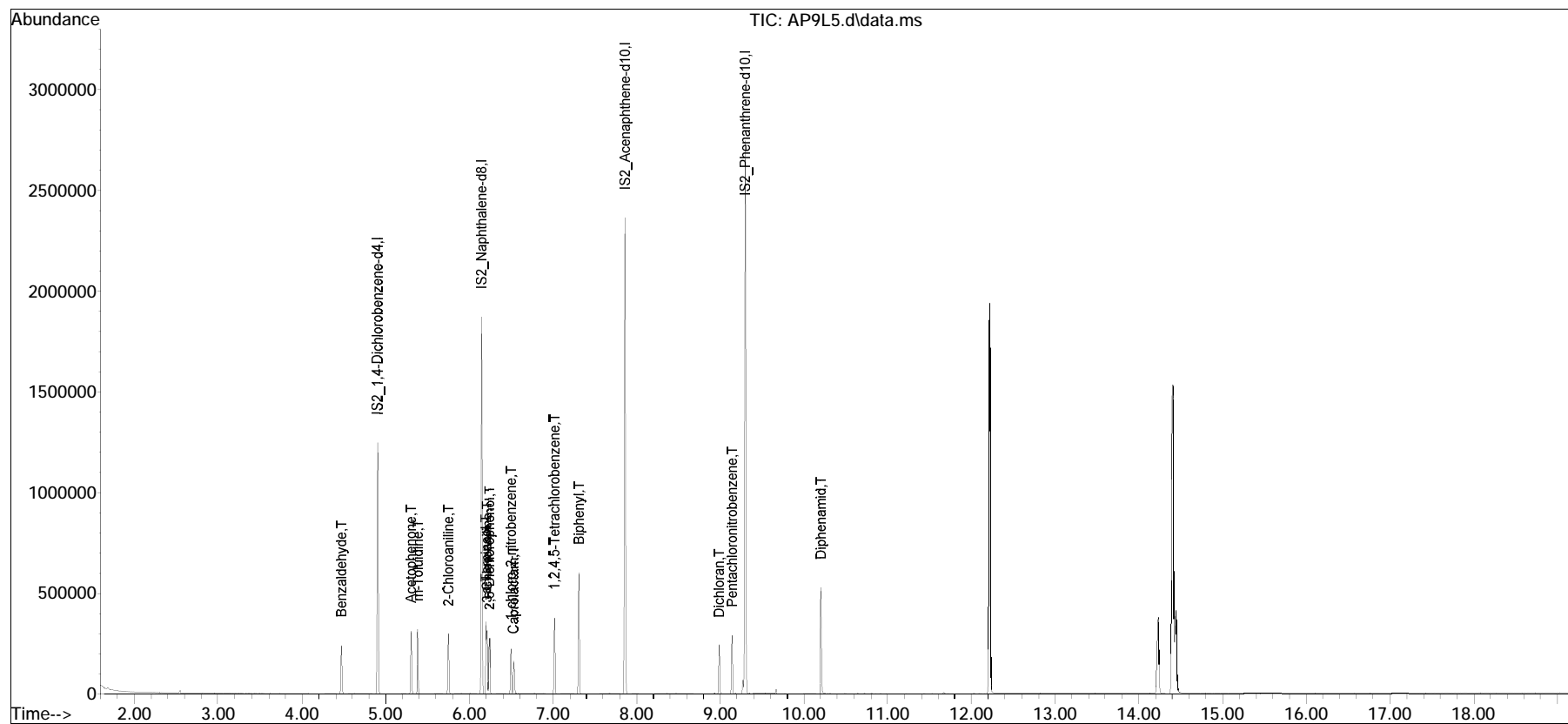
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : AP9L5.d
Acq On : 16 May 2023 3:11 am
Operator : SV103:jg
Sample : IL16,32,,AP9L10 Lot# 10070
Misc : WG1779694,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 16 13:11:35 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 12:51:16 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : AP9L5.d Operator : SV103:jg
Date Inj'd : 5/16/2023 3:11 am Instrument : SV103
Sample : IL16,32,,AP9L10 Lot# 10070Quant Date : 5/16/2023 12:54 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : AP9L4.d
 Acq On : 16 May 2023 3:35 am
 Operator : SV103:jg
 Sample : IL17,32,,AP9L5 Lot# 10071
 Misc : WG1779694,,
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 16 13:11:16 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\AP9L7.d
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.905	152	154094	40.000	ug/ml	0.00
Standard Area 1 = 199831			Recovery	=	77.11%	
55) IS2_Naphthalene-d8	6.147	136	578235	40.000	ug/ml	0.00
Standard Area 1 = 817739			Recovery	=	70.71%	
83) IS2_Acenaphthene-d10	7.861	164	297769	40.000	ug/ml	0.00
Standard Area 1 = 455152			Recovery	=	65.42%	
98) IS2_Phenanthrene-d10	9.301	188	591989	40.000	ug/ml	0.00
Standard Area 1 = 918145			Recovery	=	64.48%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.471	105	17567	5.073	ug/ml	97
29) Acetophenone	5.306	105	31783	4.412	ug/ml	95
30) m-Toluidine	5.386	106	28636	4.438	ug/ml	99
31) 2-Chloroaniline	5.749	127	29129	4.412	ug/ml	100
56) a-Terpineol	6.198	59	15716	4.403	ug/ml	87
57) 3-Chloroaniline	6.213	65	8460	4.745	ug/ml	94
58) 2,6-Dichlorophenol	6.241	162	16386	4.015	ug/ml	95
59) 1-chloro-2-nitrobenzene	6.497	111	7878	4.179	ug/ml	93
60) Caprolactam	6.525	55	7463	3.466	ug/ml	95
61) 1,2,4,5-Tetrachloroben...	7.017	216	22022	4.938	ug/ml	98
62) Biphenyl	7.309	154	58144	4.681	ug/ml	99
84) Dichloran	8.989	206	3622	3.200	ug/ml#	87
85) Pentachloronitrobenzene	9.145	237	3386	3.067	ug/ml	93
99) Diphenamid	10.205	167	27882	4.060	ug/ml#	79

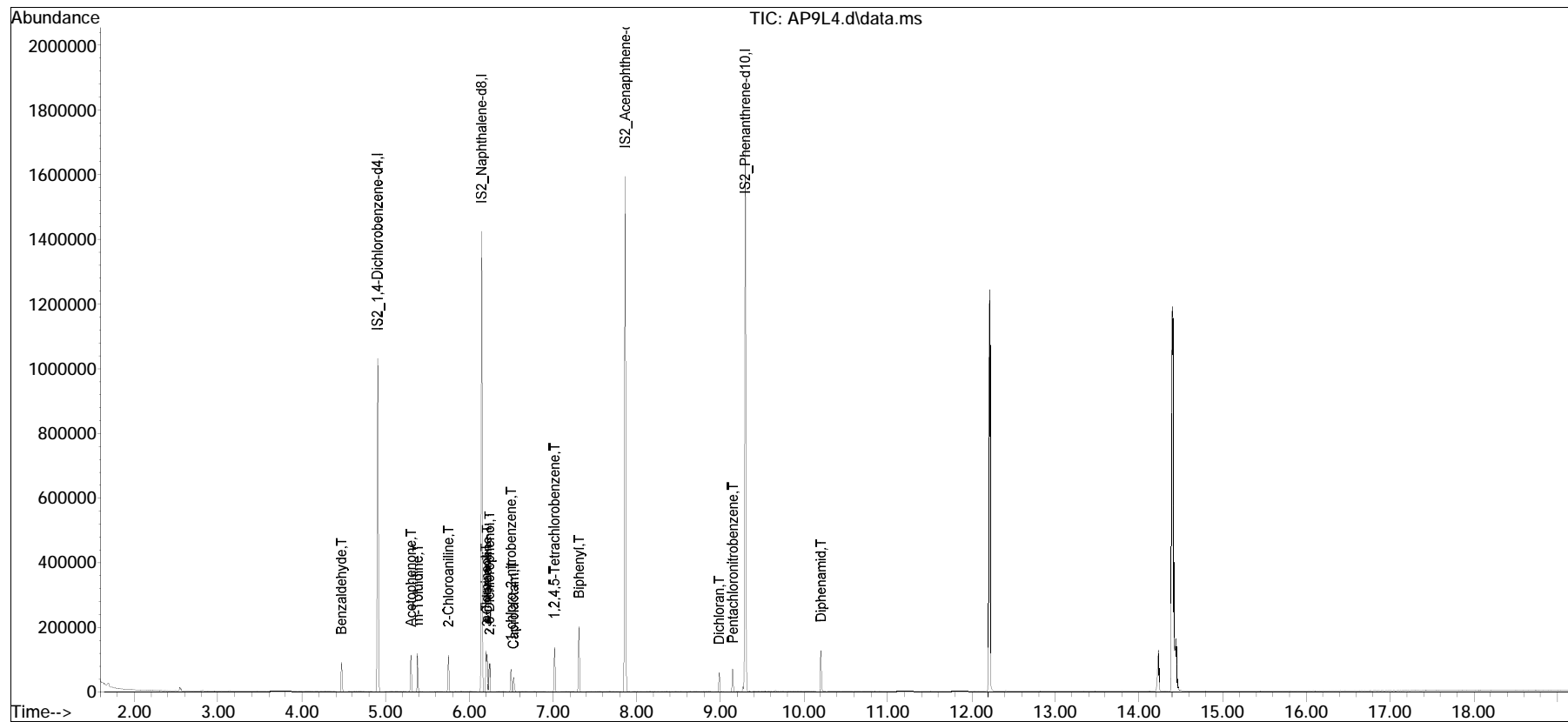
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : AP9L4.d
Acq On : 16 May 2023 3:35 am
Operator : SV103:jg
Sample : IL17,32,,AP9L5 Lot# 10071
Misc : WG1779694,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 16 13:11:16 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 12:51:16 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : AP9L4.d Operator : SV103:jg
Date Inj'd : 5/16/2023 3:35 am Instrument : SV103
Sample : IL17,32,,AP9L5 Lot# 10071 Quant Date : 5/16/2023 12:53 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : AP9L3.d
 Acq On : 16 May 2023 3:58 am
 Operator : SV103:jg
 Sample : IL18,32,,AP9L3 Lot# 10072
 Misc : WG1779694,,
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 16 13:10:59 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\AP9L7.d
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.906	152	151377	40.000	ug/ml	0.00
Standard Area 1 = 199831			Recovery	=	75.75%	
55) IS2_Naphthalene-d8	6.147	136	572521	40.000	ug/ml	0.00
Standard Area 1 = 817739			Recovery	=	70.01%	
83) IS2_Acenaphthene-d10	7.861	164	298534	40.000	ug/ml	0.00
Standard Area 1 = 455152			Recovery	=	65.59%	
98) IS2_Phenanthrene-d10	9.301	188	596184	40.000	ug/ml	0.00
Standard Area 1 = 918145			Recovery	=	64.93%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.474	105	10196	2.997	ug/ml	97
29) Acetophenone	5.306	105	17909	2.531	ug/ml	98
30) m-Toluidine	5.386	106	15811	2.494	ug/ml	99
31) 2-Chloroaniline	5.747	127	16419	2.532	ug/ml	98
56) a-Terpineol	6.198	59	8674	2.454	ug/ml#	84
57) 3-Chloroaniline	6.213	65	4641	2.629	ug/ml	96
58) 2,6-Dichlorophenol	6.241	162	9519	2.355	ug/ml#	91
59) 1-chloro-2-nitrobenzene	6.497	111	4629	2.480	ug/ml	94
60) Caprolactam	6.528	55	3862	1.812	ug/ml	94
61) 1,2,4,5-Tetrachloroben...	7.017	216	12412	2.811	ug/ml	95
62) Biphenyl	7.309	154	34555	2.810	ug/ml	99
84) Dichloran	8.989	206	1915	1.687	ug/ml#	89
85) Pentachloronitrobenzene	9.142	237	1998	1.805	ug/ml	92
99) Diphenamid	10.205	167	15708	2.271	ug/ml#	77

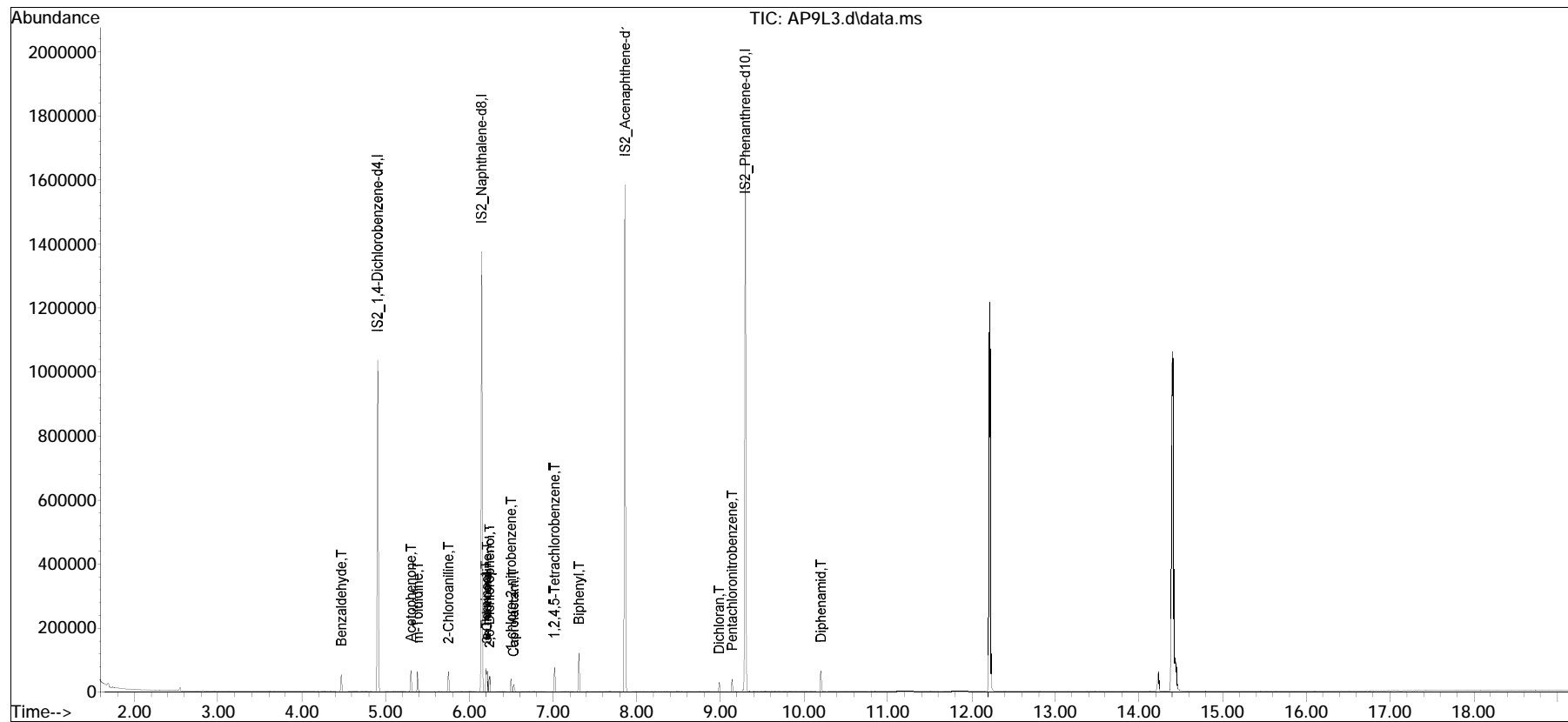
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : AP9L3.d
Acq On : 16 May 2023 3:58 am
Operator : SV103:jg
Sample : IL18,32,,AP9L3 Lot# 10072
Misc : WG1779694,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 16 13:10:59 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 12:51:16 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : AP9L3.d Operator : SV103:jg
Date Inj'd : 5/16/2023 3:58 am Instrument : SV103
Sample : IL18,32,,AP9L3 Lot# 10072 Quant Date : 5/16/2023 12:53 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : AP9L2.d
 Acq On : 16 May 2023 4:21 am
 Operator : SV103:jg
 Sample : IL19,32,,AP9L2 Lot# 10073
 Misc : WG1779694,,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 16 13:10:43 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\AP9L7.d
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.906	152	162089	40.000	ug/ml	0.00
Standard Area 1 = 199831			Recovery	=	81.11%	
55) IS2_Naphthalene-d8	6.147	136	606087	40.000	ug/ml	0.00
Standard Area 1 = 817739			Recovery	=	74.12%	
83) IS2_Acenaphthene-d10	7.861	164	306667	40.000	ug/ml	0.00
Standard Area 1 = 455152			Recovery	=	67.38%	
98) IS2_Phenanthrene-d10	9.301	188	606492	40.000	ug/ml	0.00
Standard Area 1 = 918145			Recovery	=	66.06%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.474	105	7352	2.018	ug/ml	98
29) Acetophenone	5.306	105	12876	1.699	ug/ml	99
30) m-Toluidine	5.386	106	11079	1.632	ug/ml	99
31) 2-Chloroaniline	5.750	127	11705	1.685	ug/ml	97
56) a-Terpineol	6.199	59	6256	1.672	ug/ml	86
57) 3-Chloroaniline	6.213	65	3313	1.773	ug/ml	99
58) 2,6-Dichlorophenol	6.241	162	6280	1.468	ug/ml	92
59) 1-chloro-2-nitrobenzene	6.497	111	3127	1.582	ug/ml	87
60) Caprolactam	6.525	55	2823	1.251	ug/ml	97
61) 1,2,4,5-Tetrachloroben...	7.017	216	8771	1.876	ug/ml	96
62) Biphenyl	7.310	154	23608	1.813	ug/ml	99
84) Dichloran	8.992	206	1314	1.127	ug/ml#	86
85) Pentachloronitrobenzene	9.145	237	1206	1.061	ug/ml	92
99) Diphenamid	10.205	167	9532	1.355	ug/ml	82

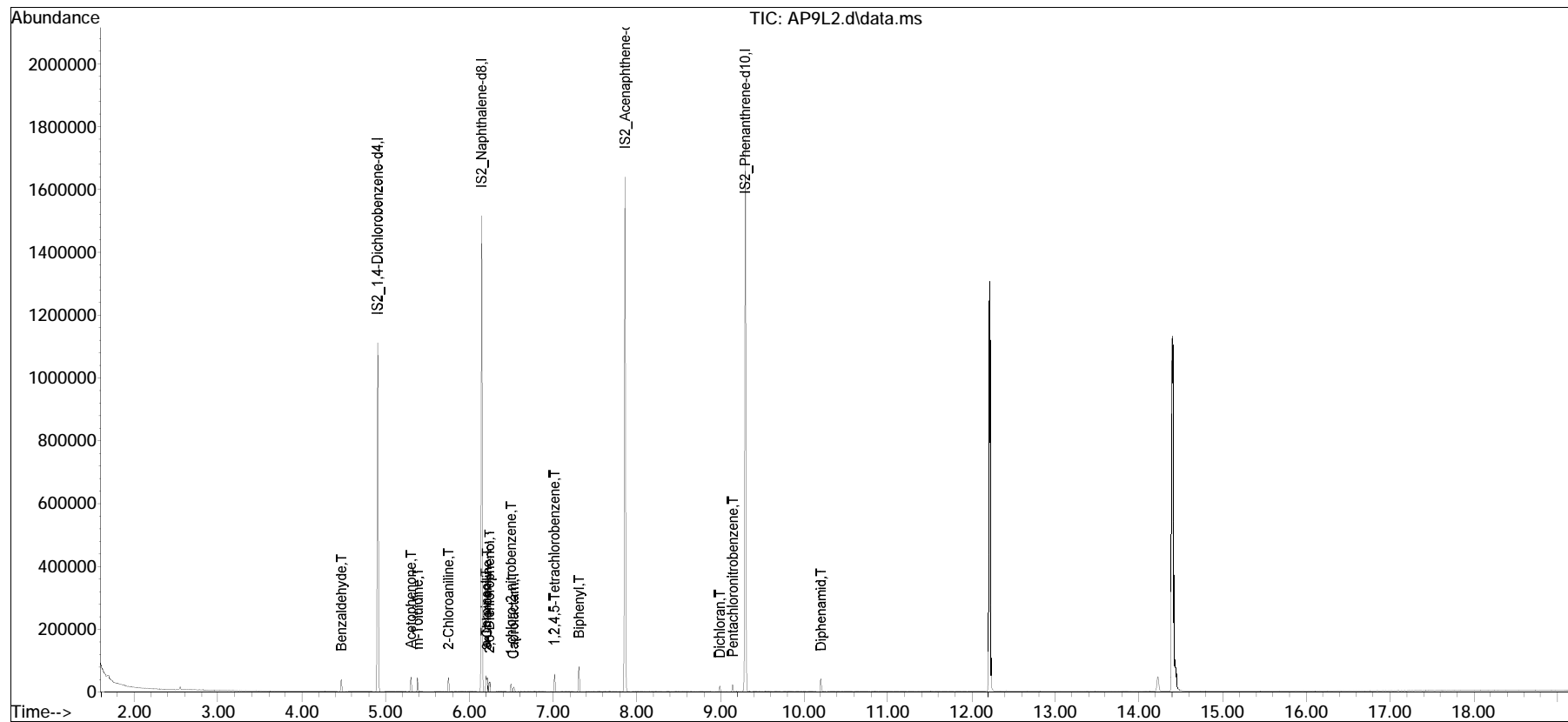
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : AP9L2.d
Acq On : 16 May 2023 4:21 am
Operator : SV103:jg
Sample : IL19,32,,AP9L2 Lot# 10073
Misc : WG1779694,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 16 13:10:43 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 12:51:16 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : AP9L2.d Operator : SV103:jg
Date Inj'd : 5/16/2023 4:21 am Instrument : SV103
Sample : IL19,32,,AP9L2 Lot# 10073 Quant Date : 5/16/2023 12:53 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : AP9L1.d
 Acq On : 16 May 2023 4:45 am
 Operator : SV103:jg
 Sample : IL20,32,,AP9L1 Lot# 10074
 Misc : WG1779694,,
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 16 13:09:45 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\AP9L7.d
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.906	152	151458	40.000	ug/ml	0.00
Standard Area 1 = 199831			Recovery	=	75.79%	
55) IS2_Naphthalene-d8	6.147	136	552612	40.000	ug/ml	0.00
Standard Area 1 = 817739			Recovery	=	67.58%	
83) IS2_Acenaphthene-d10	7.861	164	280437	40.000	ug/ml	0.00
Standard Area 1 = 455152			Recovery	=	61.61%	
98) IS2_Phenanthrene-d10	9.301	188	541410	40.000	ug/ml	0.00
Standard Area 1 = 918145			Recovery	=	58.97%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.474	105	3498	1.028	ug/ml	93
29) Acetophenone	5.306	105	5987	0.846	ug/ml	96
30) m-Toluidine	5.386	106	4712	0.743	ug/ml	97
31) 2-Chloroaniline	5.747	127	5240	0.807	ug/ml	94
56) a-Terpineol	6.199	59	2621	0.768	ug/ml#	74
57) 3-Chloroaniline	6.213	65	1570	0.921	ug/ml	95
58) 2,6-Dichlorophenol	6.238	162	2697	0.691	ug/ml	93
59) 1-chloro-2-nitrobenzene	6.497	111	1346	0.747	ug/ml	99
60) Caprolactam	6.528	55	1144	0.556	ug/ml#	64
61) 1,2,4,5-Tetrachloroben...	7.017	216	4097	0.961	ug/ml	97
62) Biphenyl	7.310	154	11126	0.937	ug/ml	98
84) Dichloran	8.989	206	578	0.542	ug/ml#	82
85) Pentachloronitrobenzene	0.000		0	N.D.		
99) Diphenamid	10.202	167	4165	0.663	ug/ml#	81

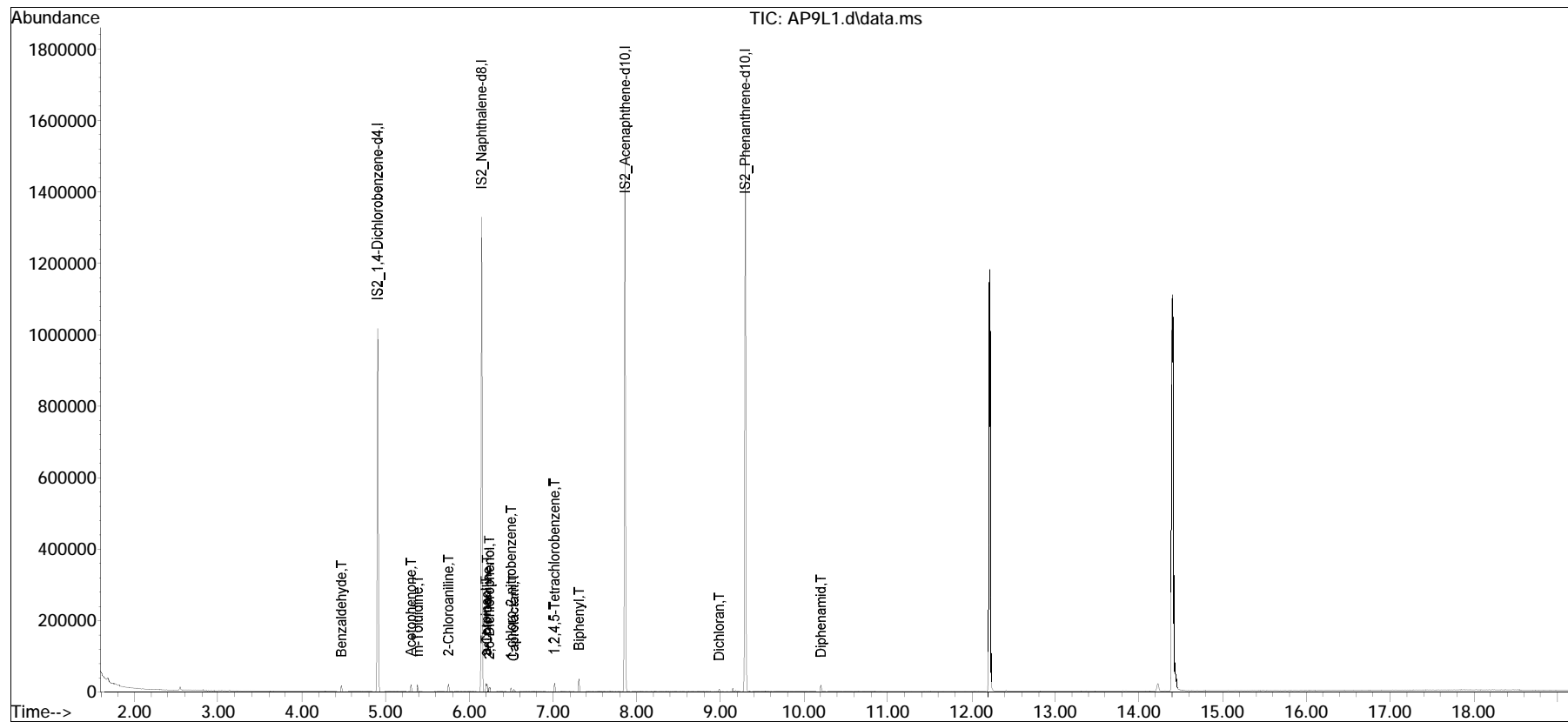
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : AP9L1.d
Acq On : 16 May 2023 4:45 am
Operator : SV103:jg
Sample : IL20,32,,AP9L1 Lot# 10074
Misc : WG1779694,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 16 13:09:45 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 12:51:16 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : AP9L1.d Operator : SV103:jg
Date Inj'd : 5/16/2023 4:45 am Instrument : SV103
Sample : IL20,32,,AP9L1 Lot# 10074 Quant Date : 5/16/2023 12:53 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNICV.d
 Acq On : 16 May 2023 5:08 am
 Operator : SV103:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1779694,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 16 17:26:05 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 17:26:31 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	IS1_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
2 t	n-Nitrosodimethylamine	0.713	0.698	2.1	96	0.00
3 t	Pyridine	1.184	1.184	0.0	97	0.00
4 S	2-Fluorophenol	1.115	1.124	-0.8	98	0.00
5 T	Aniline	1.818	1.812	0.3	96	0.00
6 t	2-Chlorophenol	1.296	1.268	2.2	95	0.00
7 S	Phenol-d6	1.390	1.383	0.5	97	0.00
8 T	Phenol	1.587	1.562	1.6	96	0.00
9 T	Bis(2-chloroethyl)ether	1.121	1.092	2.6	97	0.00
10 T	1,3-Dichlorobenzene	1.515	1.458	3.8	97	0.00
11 T	1,4-Dichlorobenzene	1.548	1.500	3.1	98	0.00
12 T	1,2-Dichlorobenzene	1.469	1.432	2.5	97	0.00
13 t	Benzyl alcohol	0.883	0.886	-0.3	93	0.00
14 T	Bis(2-chloroisopropyl)ether	1.794	1.744	2.8	95	0.00
15 T	2-Methylphenol	1.107	1.082	2.3	94	0.00
16 T	Hexachloroethane	0.531	0.524	1.3	98	0.00
17 T	n-Nitrosodi-n-propylamine	0.773	0.758	1.9	93	0.00
18 T	3-Methylphenol/4-Methylphen	1.167	1.135	2.7	93	0.00
19 S	Nitrobenzene-d5	1.153	1.121	2.8	91	0.00
20 T	Nitrobenzene	1.164	1.155	0.8	93	0.00
21 T	Isophorone	2.108	2.062	2.2	91	0.00
22 T	2-Nitrophenol	0.569	0.534	6.2	86	0.00
23 T	2,4-Dimethylphenol	1.194	1.166	2.3	92	0.00
24 T	Bis(2-chloroethoxy)methane	1.369	1.365	0.3	96	0.00
25 T	2,4-Dichlorophenol	1.058	1.048	0.9	92	0.00
26 T	1,2,4-Trichlorobenzene	1.203	1.183	1.7	98	0.00
35 I	IS1_Naphthalene-d8	1.000	1.000	0.0	103	0.00
36 T	Naphthalene	1.052	1.015	3.5	95	0.00
37 T	Benzoic Acid	* 50.000	40.225	19.5	82	0.00
38 T	4-Chloroaniline	0.109	0.106	2.8	94	0.00
39 T	Hexachlorobutadiene	0.174	0.171	1.7	98	0.00
40 T	p-Chloro-m-cresol	0.264	0.260	1.5	91	0.00
41 T	2-Methylnaphthalene	0.655	0.649	0.9	96	0.00
42 T	1-Methylnaphthalene	0.205	0.197	3.9	94	0.00
43 T	Hexachlorocyclopentadiene	0.189	0.186	1.6	93	0.00
44 T	2,4,6-Trichlorophenol	0.187	0.186	0.5	89	0.00
45 T	2,4,5-Trichlorophenol	0.211	0.206	2.4	89	0.00
46 S	2-Fluorobiphenyl	0.752	0.725	3.6	93	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNICV.d
 Acq On : 16 May 2023 5:08 am
 Operator : SV103:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1779694,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 16 17:26:05 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 17:26:31 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47 T	2-Chloronaphthalene	0.645	0.611	5.3	91	0.00
48 T	2-Nitroaniline	0.202	0.185	8.4	83	0.00
49 T	1,4-Dinitrobenzene	0.096	0.077	19.8	78	0.00
50 T	1,3-Dinitrobenzene	* 50.000	40.192	19.6	80	0.00
51 T	Dimethyl phthalate	0.742	0.700	5.7	88	0.00
52 T	Acenaphthylene	0.991	1.029	-3.8	97	0.00
53 T	2,6-Dinitrotoluene	0.152	0.146	3.9	85	0.00
54 T	1,2-Dinitrobenzene	0.067	0.062	7.5	84	0.00
63 I	IS1_Acenaphthene-d10	1.000	1.000	0.0	99	0.00
64 T	3-Nitroaniline	0.352	0.333	5.4	85	0.00
65 T	Acenaphthene	1.160	1.098	5.3	91	0.00
66 T	2,4-Dinitrophenol	* 50.000	36.981	26.0#	73	0.00
67 T	Dibenzofuran	1.799	1.721	4.3	91	0.00
68 T	2,4-Dinitrotoluene	0.384	0.374	2.6	83	0.00
69 T	4-Nitrophenol	0.229	0.213	7.0	82	0.00
70 T	2,3,5,6-Tetrachlorophenol	0.313	0.304	2.9	84	0.00
71 T	2,3,4,6-Tetrachlorophenol	0.324	0.316	2.5	87	0.00
72 T	Diethyl phthalate	1.401	1.368	2.4	88	0.00
73 T	Fluorene	1.395	1.337	4.2	89	0.00
74 T	4-Chlorophenyl phenyl ether	0.659	0.622	5.6	89	0.00
75 T	4-Nitroaniline	0.357	0.327	8.4	83	0.00
76 T	4,6-Dinitro-o-cresol	* 50.000	40.627	18.7	82	0.00
77 T	NDPA/DPA	1.192	1.159	2.8	89	0.00
78 T	Azobenzene	1.196	1.186	0.8	90	0.00
79 S	2,4,6-Tribromophenol	0.213	0.209	1.9	87	0.00
80 T	4-Bromophenyl phenyl ether	0.392	0.378	3.6	90	0.00
81 T	Hexachlorobenzene	0.479	0.450	6.1	89	0.00
82 T	Pentachlorophenol	* 50.000	42.690	14.6	85	0.00
88 I	IS1_Phenanthrene-d10	1.000	1.000	0.0	92	0.00
89 T	Phenanthrene	1.102	1.044	5.3	85	0.00
90 T	Anthracene	1.086	1.080	0.6	86	0.00
91 T	Carbazole	1.017	0.988	2.9	84	0.00
92 T	Di-n-butylphthalate	1.092	1.171	-7.2	83	0.00
93 T	Fluoranthene	1.157	1.099	5.0	81	0.00
94 T	Benzidine	0.729	0.765	-4.9	83	0.00
95 T	Pyrene	1.244	1.179	5.2	82	0.00
96 S	4-Terphenyl-d14	0.931	0.910	2.3	85	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNICV.d
 Acq On : 16 May 2023 5:08 am
 Operator : SV103:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1779694,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 16 17:26:05 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 17:26:31 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97 T	Butyl benzyl phthalate	* 50.000	42.200	15.6	75	0.00
104 I	IS1_Chrysene-d12	1.000	1.000	0.0	90	0.00
105 T	Benzo(a)anthracene	1.325	1.278	3.5	84	0.00
106 T	3,3'-Dichlorobenzidine	0.484	0.495	-2.3	81	0.00
107 T	Chrysene	1.326	1.227	7.5	84	0.00
108 T	Bis(2-ethylhexyl)phthalate	* 50.000	44.414	11.2	78	0.00
109 T	Di-n-octylphthalate	* 50.000	42.620	14.8	76	0.00
110 T	Benzo(b)fluoranthene	1.286	1.251	2.7	82	0.00
111 T	Benzo(k)fluoranthene	1.320	1.322	-0.2	84	0.00
112 T	Benzo(a)pyrene	1.109	1.209	-9.0	89	0.00
113 I	IS1_Perylene-d12	1.000	1.000	0.0	94	0.00
114 T	Indeno(1,2,3-cd)pyrene	0.853	0.878	-2.9	86	0.00
115 T	Dibenzo(a,h)anthracene	1.023	1.026	-0.3	85	0.00
116 T	Benzo(ghi)perylene	1.042	1.024	1.7	86	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNICV.d
 Acq On : 16 May 2023 5:08 am
 Operator : SV103:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1779694,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 16 17:26:05 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 17:26:31 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.909	152	156035	40.000	ug/ml	0.00
Standard Area 1 = 149101			Recovery =	104.65%		
35) IS1_Naphthalene-d8	6.147	136	588705	40.000	ug/ml	0.00
Standard Area 1 = 573599			Recovery =	102.63%		
63) IS1_Acenaphthene-d10	7.861	164	305760	40.000	ug/ml	0.00
Standard Area 1 = 309536			Recovery =	98.78%		
88) IS1_Phenanthrene-d10	9.301	188	581178	40.000	ug/ml	0.00
Standard Area 1 = 631294			Recovery =	92.06%		
104) IS1_Chrysene-d12	12.220	240	525250	40.000	ug/ml	0.00
Standard Area 1 = 581246			Recovery =	90.37%		
113) IS1_Perylene-d12	14.405	264	634071	40.000	ug/ml	0.00
Standard Area 1 = 674505			Recovery =	94.01%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.630	112	219302	50.428	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	100.86%		
7) Phenol-d6	4.573	99	269666	49.733	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	99.47%		
19) Nitrobenzene-d5	5.448	82	218647	48.593	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	194.37%#		
46) 2-Fluorobiphenyl	7.219	172	533276	48.177	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	192.71%#		
79) 2,4,6-Tribromophenol	8.628	330	79863	49.087	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	98.17%		
96) 4-Terphenyl-d14	10.924	244	661423	48.919	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	195.68%#		
Target Compounds						
2) n-Nitrosodimethylamine	2.249	74	136182	48.947	ug/ml	94
3) Pyridine	2.283	79	230880	49.993	ug/ml	86
5) Aniline	4.585	93	353352	49.818	ug/ml#	70
6) 2-Chlorophenol	4.701	128	247392	48.952	ug/ml#	89
8) Phenol	4.588	94	304744	49.212	ug/ml#	60
9) Bis(2-chloroethyl)ether	4.664	93	213071	48.709	ug/ml	92
10) 1,3-Dichlorobenzene	4.852	146	284332	48.111	ug/ml	96
11) 1,4-Dichlorobenzene	4.923	146	292551	48.447	ug/ml	96
12) 1,2-Dichlorobenzene	5.071	146	279358	48.764	ug/ml	95
13) Benzyl alcohol	5.054	79	172819	50.148	ug/ml	92
14) Bis(2-chloroisopropyl)...	5.201	45	340105	48.609	ug/ml#	69

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNICV.d
 Acq On : 16 May 2023 5:08 am
 Operator : SV103:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1779694,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 16 17:26:05 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 17:26:31 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.179	108	211068	48.895	ug/ml	99
16) Hexachloroethane	5.403	117	102223	49.383	ug/ml	85
17) n-Nitrosodi-n-propylamine	5.323	70	147810	48.992	ug/ml	94
18) 3-Methylphenol/4-Methy...	5.335	108	221408	48.630	ug/ml	99
20) Nitrobenzene	5.468	77	225203	49.605	ug/ml	91
21) Isophorone	5.707	82	402199	48.905	ug/ml	95
22) 2-Nitrophenol	5.784	139	104160	46.952	ug/ml#	83
23) 2,4-Dimethylphenol	5.849	107	227394	48.805	ug/ml	92
24) Bis(2-chloroethoxy)met...	5.940	93	266162	49.834	ug/ml	98
25) 2,4-Dichlorophenol	6.020	162	204438	49.528	ug/ml	94
26) 1,2,4-Trichlorobenzene	6.102	180	230821	49.197	ug/ml	99
36) Naphthalene	6.170	128	746899	48.227	ug/ml	100
37) Benzoic Acid	5.946	105	129498	40.225	ug/ml	94
38) 4-Chloroaniline	6.233	65	78051	48.687	ug/ml#	54
39) Hexachlorobutadiene	6.315	225	125814	49.143	ug/ml	98
40) p-Chloro-m-cresol	6.724	107	191568	49.377	ug/ml	91
41) 2-Methylnaphthalene	6.849	142	477403	49.521	ug/ml	96
42) 1-Methylnaphthalene	6.943	115	144677	48.056	ug/ml	75
43) Hexachlorocyclopentadiene	7.020	237	136841	49.177	ug/ml	95
44) 2,4,6-Trichlorophenol	7.133	196	136838	49.759	ug/ml	97
45) 2,4,5-Trichlorophenol	7.162	196	151532	48.763	ug/ml	98
47) 2-Chloronaphthalene	7.318	162	449333	47.351	ug/ml	96
48) 2-Nitroaniline	7.426	138	136339	45.907	ug/ml#	80
49) 1,4-Dinitrobenzene	7.560	168	56905	40.482	ug/ml#	72
50) 1,3-Dinitrobenzene	7.634	168	68118	40.192	ug/ml	76
51) Dimethyl phthalate	7.628	163	515473	47.197	ug/ml	100
52) Acenaphthylene	7.722	152	757565	51.918	ug/ml	99
53) 2,6-Dinitrotoluene	7.670	165	107145	47.741	ug/ml#	80
54) 1,2-Dinitrobenzene	7.716	168	45841	46.355	ug/ml	87
64) 3-Nitroaniline	7.827	138	127463	47.358	ug/ml	88
65) Acenaphthene	7.892	154	419646	47.309	ug/ml	95
66) 2,4-Dinitrophenol	7.929	184	42539	36.981	ug/ml#	84
67) Dibenzofuran	8.063	168	657800	47.848	ug/ml	92
68) 2,4-Dinitrotoluene	8.060	165	142903	48.646	ug/ml#	81
69) 4-Nitrophenol	8.006	65	81503	46.573	ug/ml#	79
70) 2,3,5,6-Tetrachlorophenol	8.148	232	116142	48.496	ug/ml	97
71) 2,3,4,6-Tetrachlorophenol	8.190	232	120758	48.804	ug/ml	97
72) Diethyl phthalate	8.321	149	522892	48.817	ug/ml	98
73) Fluorene	8.395	166	510995	47.922	ug/ml	96
74) 4-Chlorophenyl phenyl ...	8.409	204	237719	47.187	ug/ml	89

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNICV.d
 Acq On : 16 May 2023 5:08 am
 Operator : SV103:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1779694,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 16 17:26:05 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 17:26:31 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ABNL7.d
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	8.421	138	125118	45.839	ug/ml	81
76) 4,6-Dinitro-o-cresol	8.455	198	60966	40.627	ug/ml#	77
77) NDPA/DPA	8.526	169	442889	48.594	ug/ml	96
78) Azobenzene	8.563	77	453318	49.583	ug/ml#	90
80) 4-Bromophenyl phenyl e...	8.884	248	144408	48.200	ug/ml#	84
81) Hexachlorobenzene	8.935	284	172135	47.040	ug/ml#	88
82) Pentachlorophenol	9.128	266	96233	42.690	ug/ml	98
89) Phenanthrene	9.324	178	758728	47.368	ug/ml	99
90) Anthracene	9.375	178	784586	49.716	ug/ml	99
91) Carbazole	9.540	167	717977	48.566	ug/ml	98
92) Di-n-butylphthalate	9.924	149	850695	53.596	ug/ml	99
93) Fluoranthene	10.489	202	798221	47.484	ug/ml	98
94) Benzidine	10.648	184	555602	52.429	ug/ml	96
95) Pyrene	10.722	202	856649	47.388	ug/ml	99
97) Butyl benzyl phthalate	11.538	149	331278	42.200	ug/ml	90
105) Benzo(a)anthracene	12.205	228	839347	48.237	ug/ml	100
106) 3,3'-Dichlorobenzidine	12.208	252	325267	51.217	ug/ml	98
107) Chrysene	12.257	228	805715	46.257	ug/ml	100
108) Bis(2-ethylhexyl)phtha...	12.376	149	550297	44.414	ug/ml	99
109) Di-n-octylphthalate	13.385	149	887757	42.620	ug/ml#	94
110) Benzo(b)fluoranthene	13.817	252	821050	48.611	ug/ml	98
111) Benzo(k)fluoranthene	13.859	252	867902	50.090	ug/ml	98
112) Benzo(a)pyrene	14.314	252	793615	54.486	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	16.036	276	695653	51.432	ug/mL	98
115) Dibenzo(a,h)anthracene	16.090	278	813308	50.157	ug/ml	99
116) Benzo(ghi)perylene	16.416	276	811920	49.167	ug/ml	94

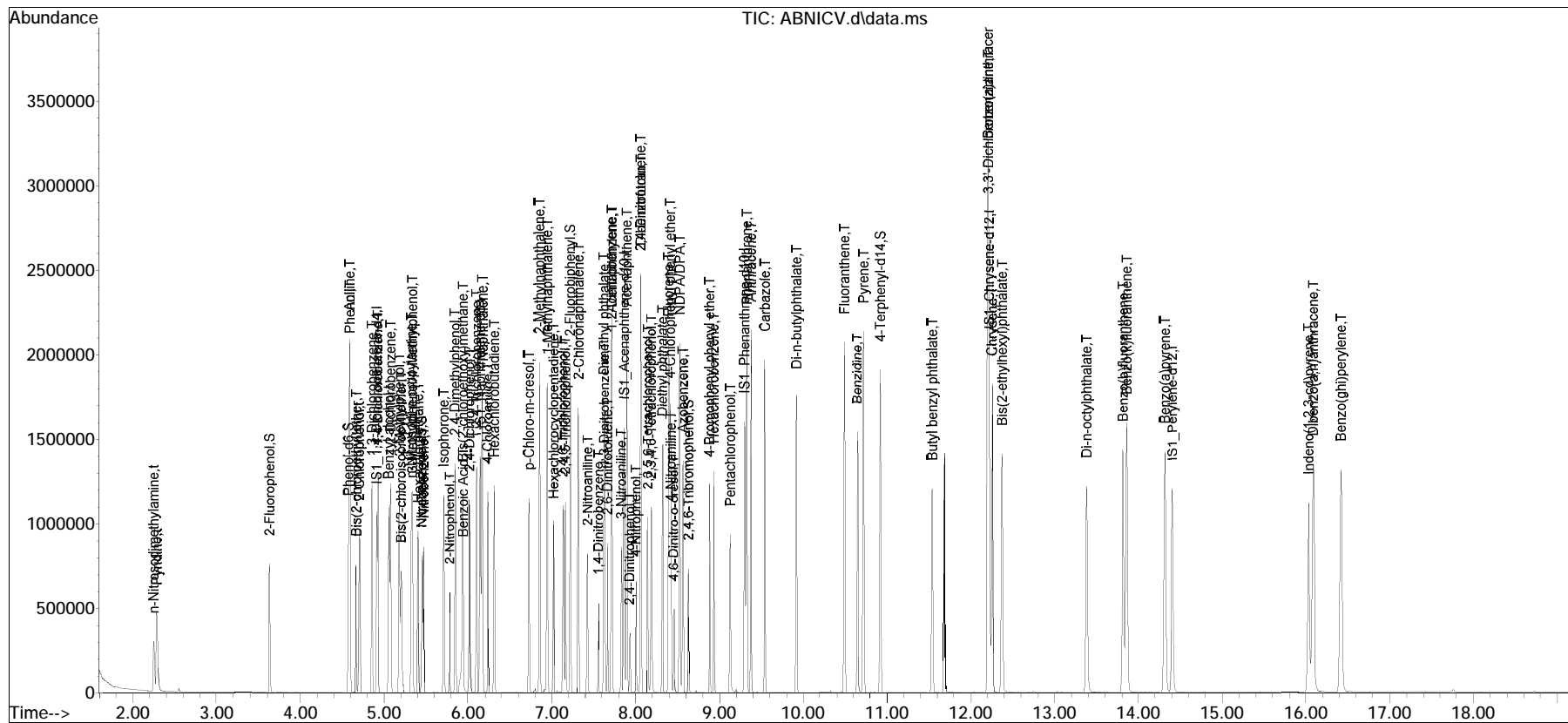
(#) = qualifier out of range (m) = manual integration (+) = signals summed

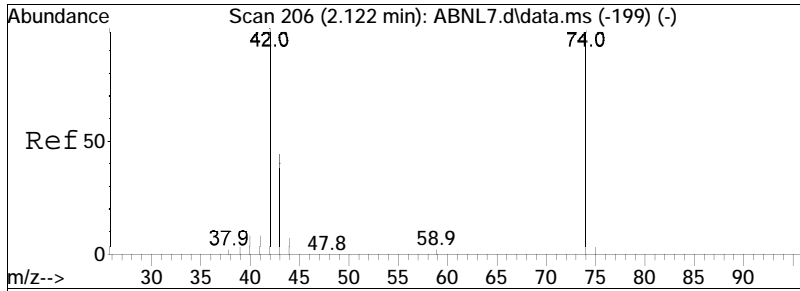
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ABNICV.d
 Acq On : 16 May 2023 5:08 am
 Operator : SV103:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1779694,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 16 17:26:05 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 17:26:31 2023
 Response via : Initial Calibration

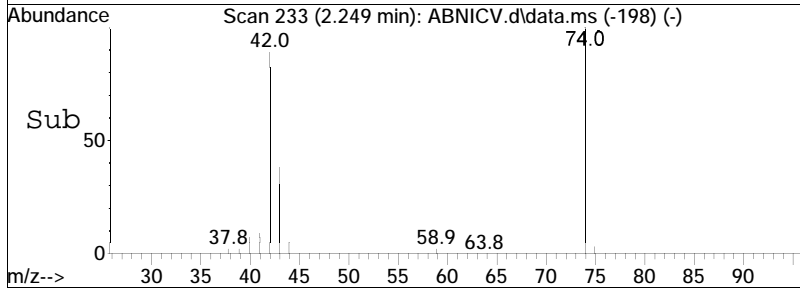
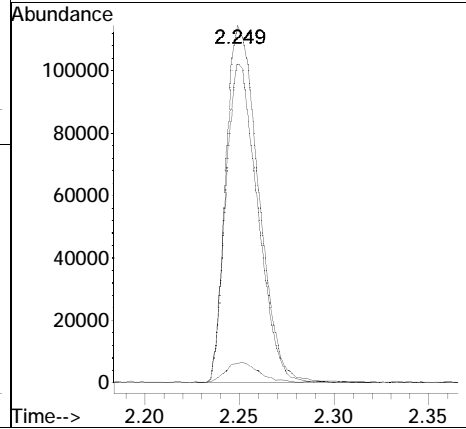
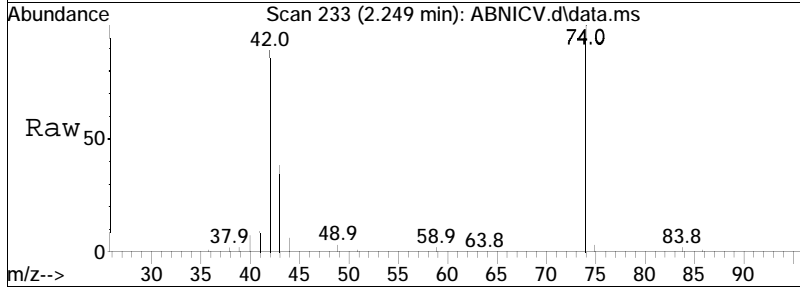
Sub List : ABNical_REV1 - ABN ical sublistBNL7.d•

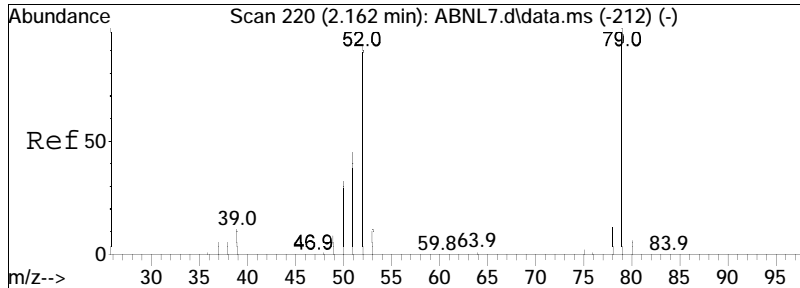




#2
 n-Nitrosodimethylamine
 Concen: 48.95 ug/ml
 RT: 2.249 min Scan# 233
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

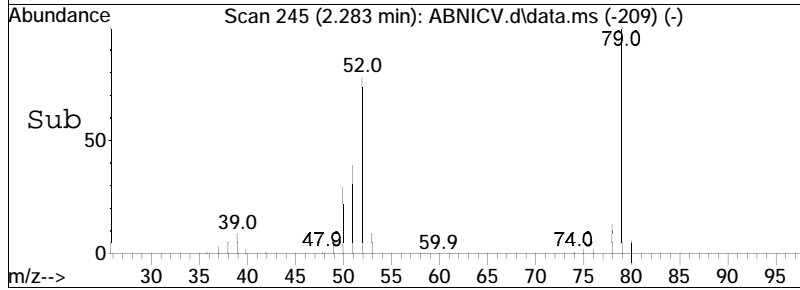
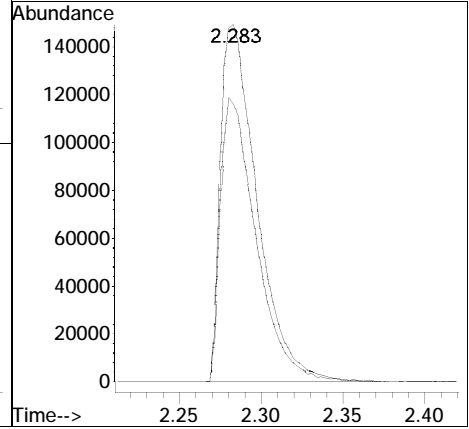
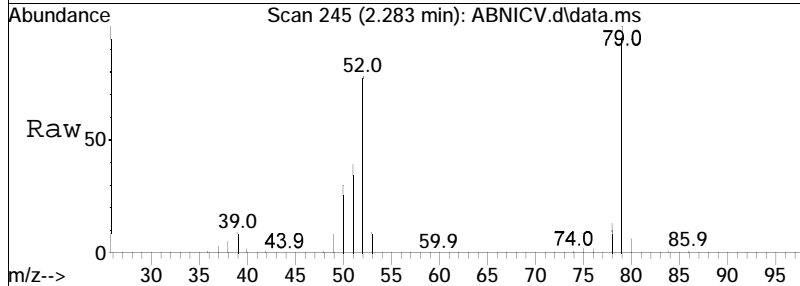
Tgt Ion	74	42	44	Ratio	100	87.1	6.2	Resp	136182	74.5	111.7	8.3
Ion	74	42	44	Ratio	100	87.1	6.2	Resp	136182	74.5	111.7	8.3

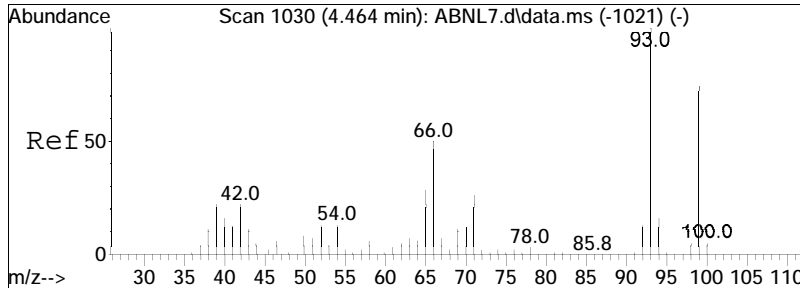




#3
 Pyridine
 Concen: 49.99 ug/ml
 RT: 2.283 min Scan# 245
 Delta R.T. 0.003 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

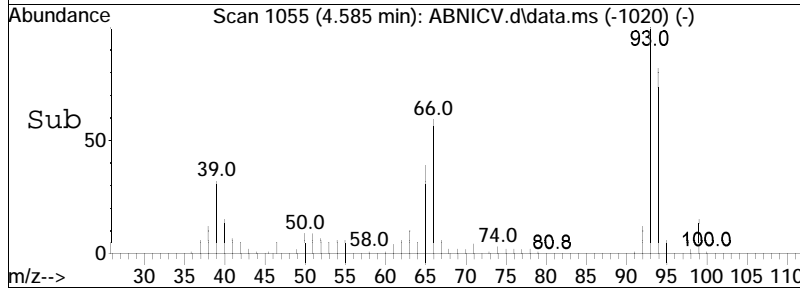
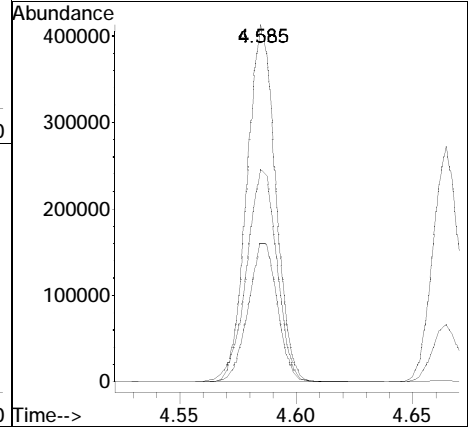
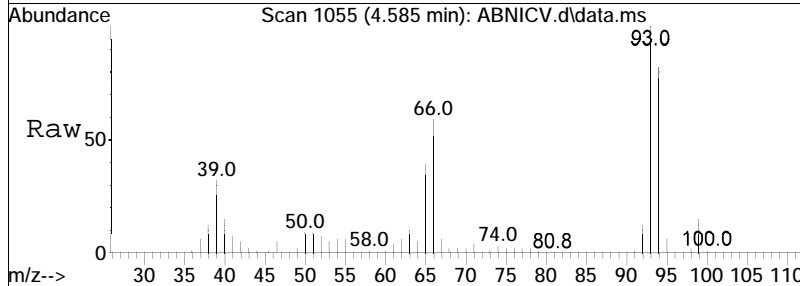
Tgt Ion: 79 Resp: 230880
 Ion Ratio Lower Upper
 79 100
 52 77.6 72.9 109.3

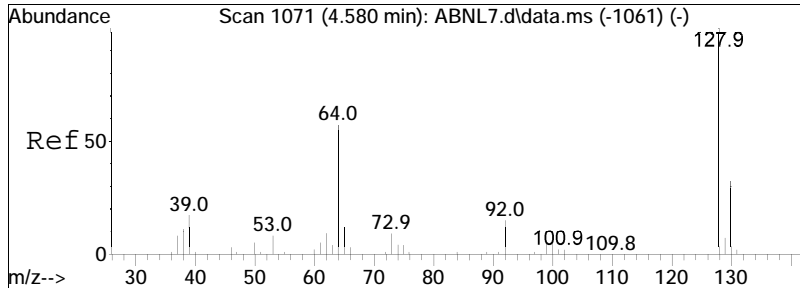




#5
 Aniline
 Concen: 49.82 ug/ml
 RT: 4.585 min Scan# 1055
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

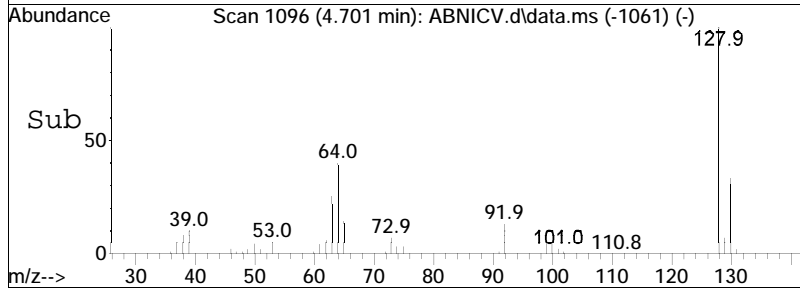
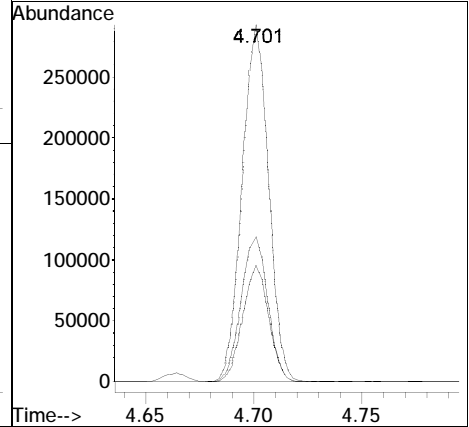
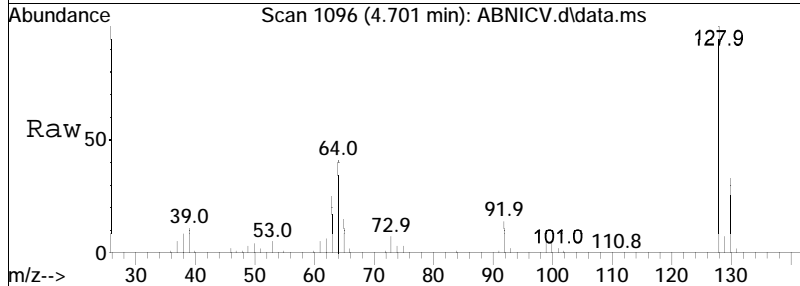
Tgt Ion:	93	Resp:	353352
Ion Ratio	Lower	Upper	
93	100		
66	63.4	37.3	55.9#
65	39.7	16.7	25.1#

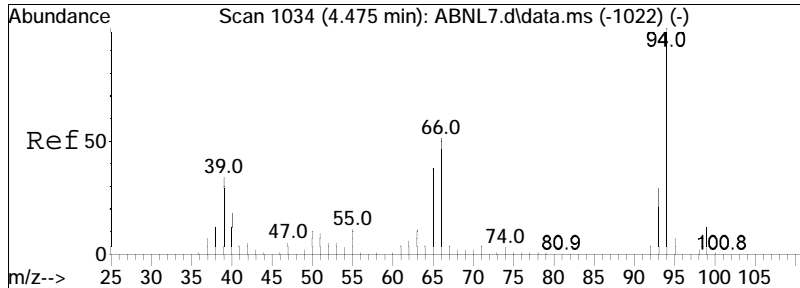




#6
 2-Chlorophenol
 Concen: 48.95 ug/ml
 RT: 4.701 min Scan# 1096
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

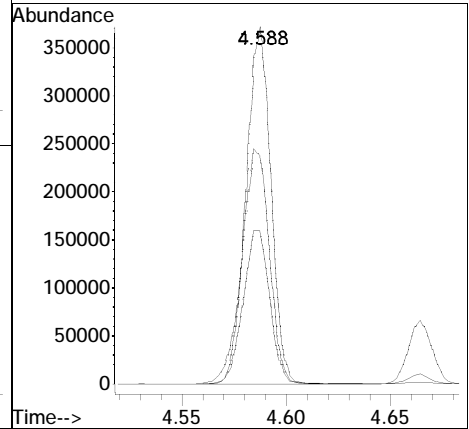
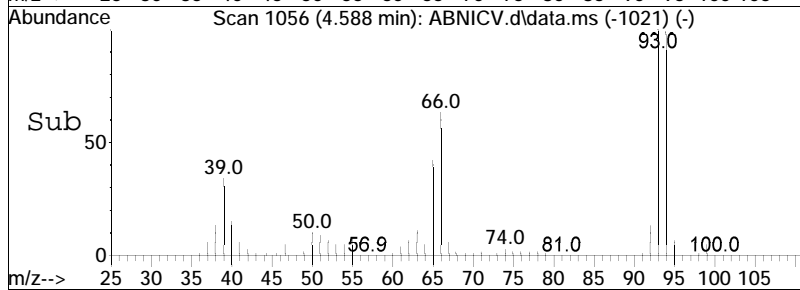
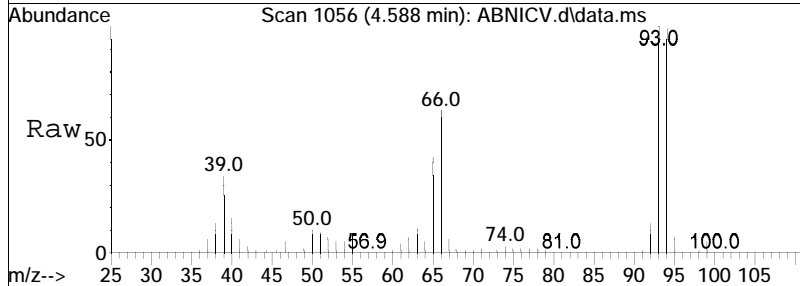
Tgt Ion	Ratio	Lower	Upper
128	100		
64	41.1	42.7	64.1#
130	32.3	25.8	38.6

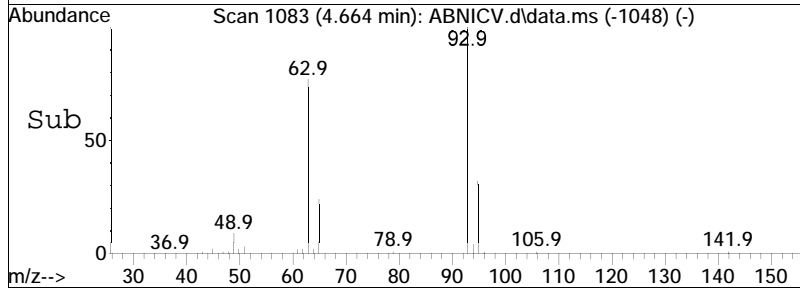
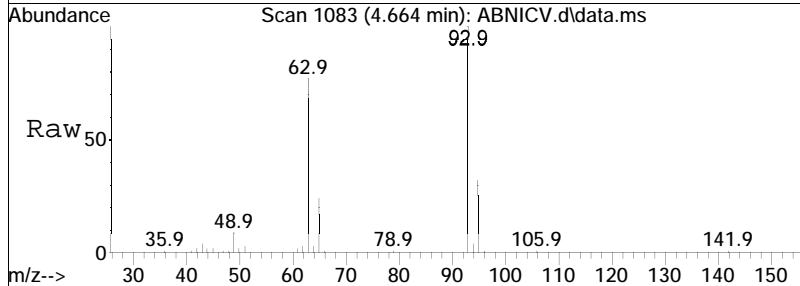
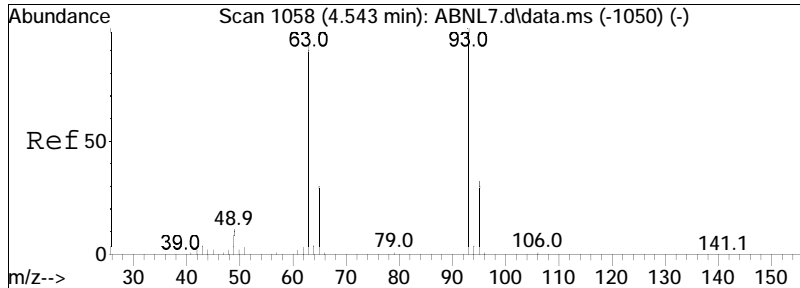




#8
 Phenol
 Concen: 49.21 ug/ml
 RT: 4.588 min Scan# 1056
 Delta R.T. 0.001 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

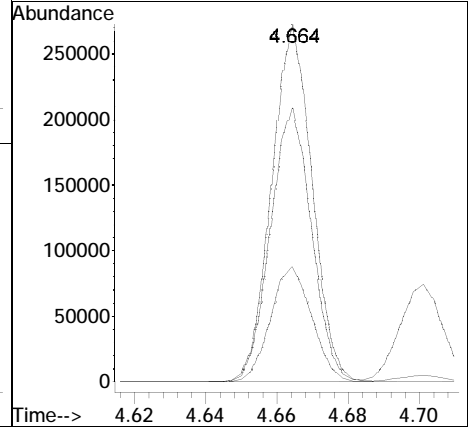
Tgt Ion:	94	Resp:	304744
Ion Ratio	Lower	Upper	
94	100		
65	46.1	20.5	30.7#
66	73.5	0.0	0.0#

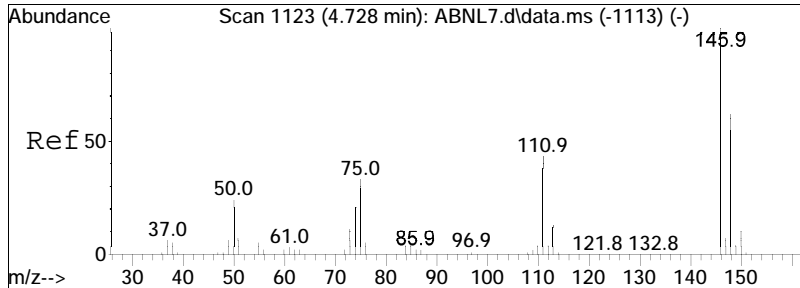




#9
 Bis(2-chloroethyl)ether
 Concen: 48.71 ug/ml
 RT: 4.664 min Scan# 1083
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

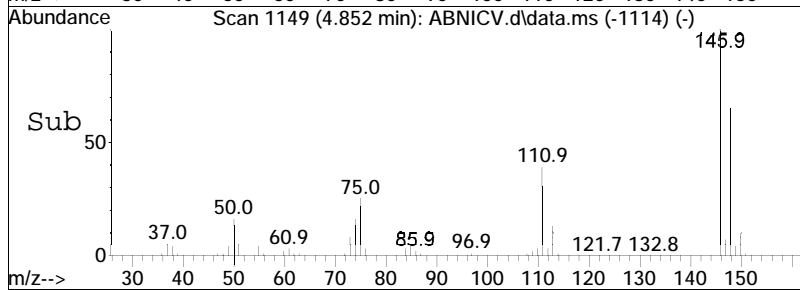
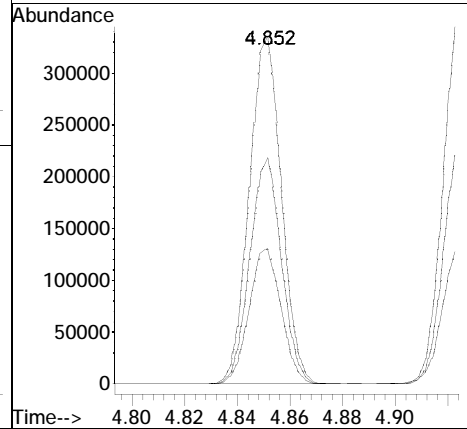
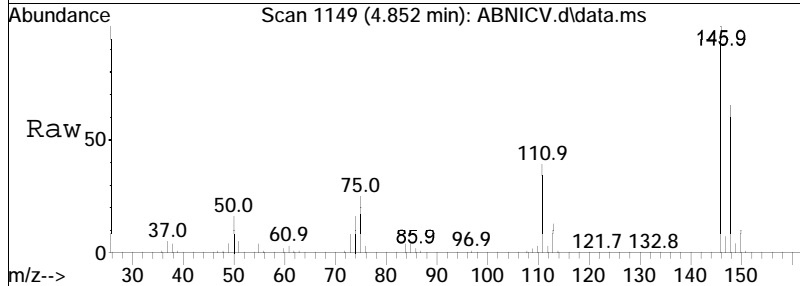
Tgt Ion:	93	Resp:	213071
Ion Ratio	100	Lower	Upper
63	78.0	70.4	105.6
95	33.1	25.8	38.6

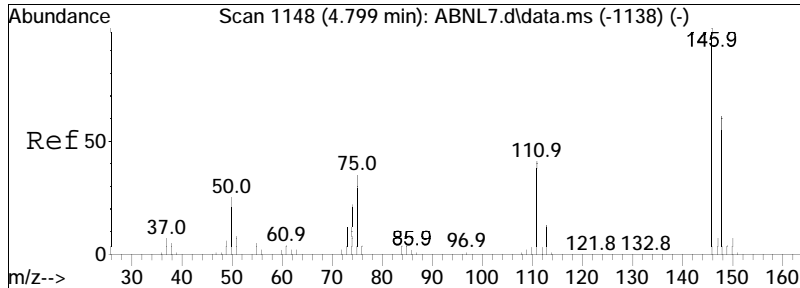




#10
 1,3-Dichlorobenzene
 Concen: 48.11 ug/ml
 RT: 4.852 min Scan# 1149
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

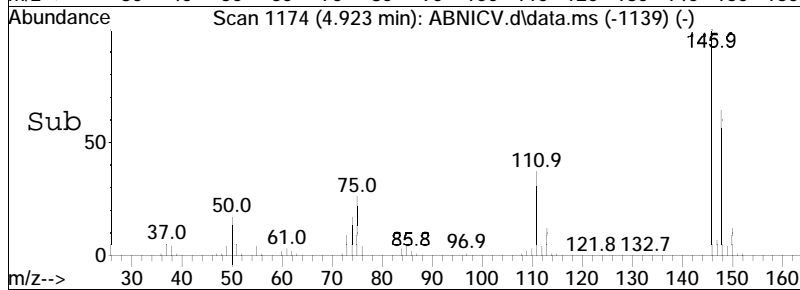
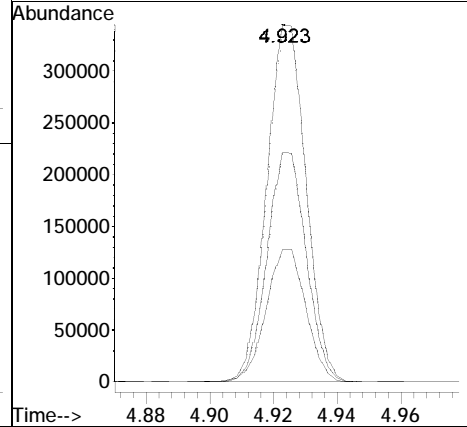
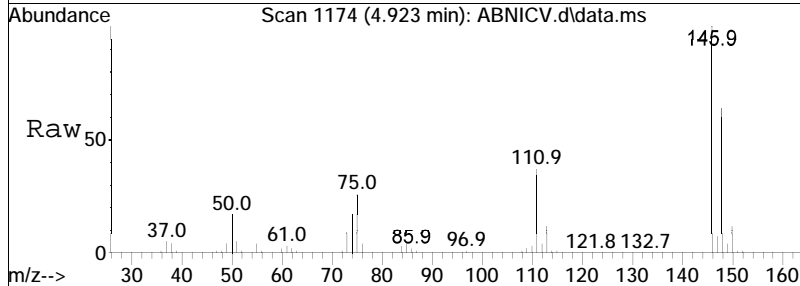
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	35.8	53.6
148	64.0	51.2	76.8

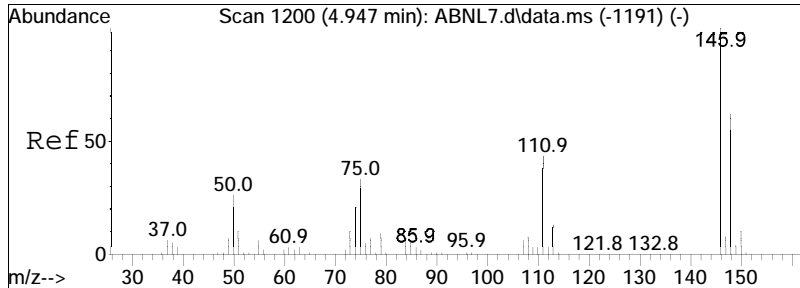




#11
 1,4-Dichlorobenzene
 Concen: 48.45 ug/ml
 RT: 4.923 min Scan# 1174
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

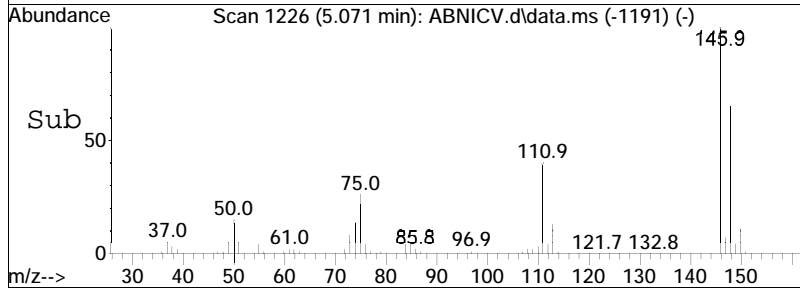
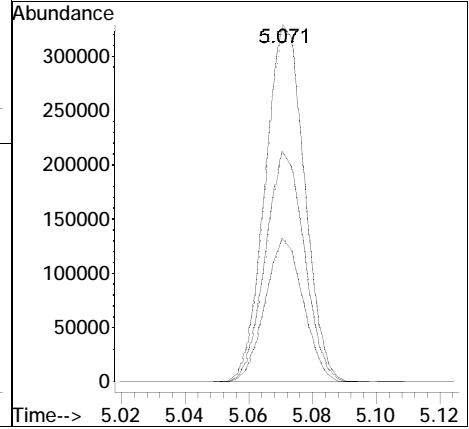
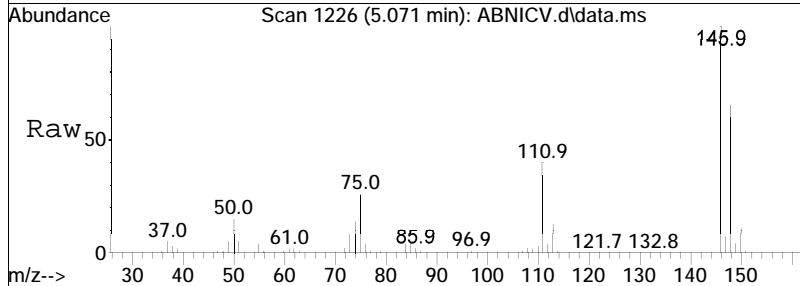
Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.6	77.4
111	38.1	35.3	52.9

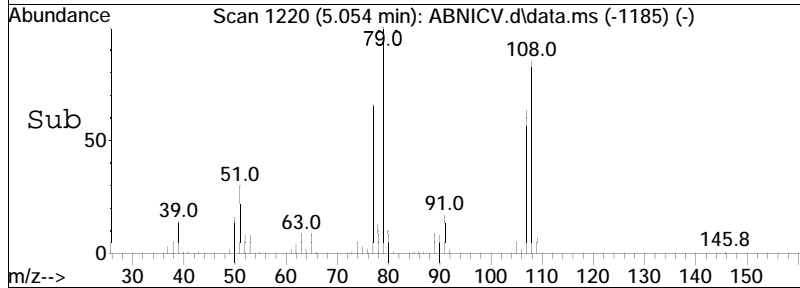
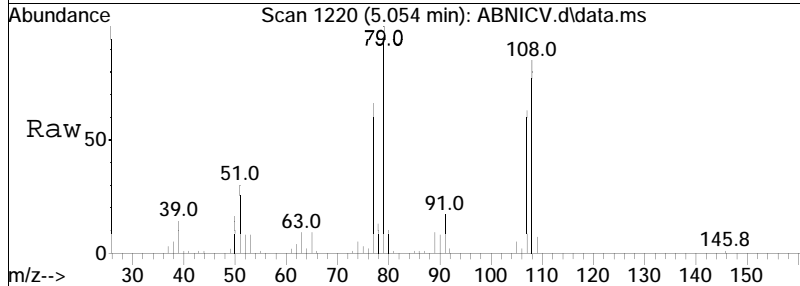
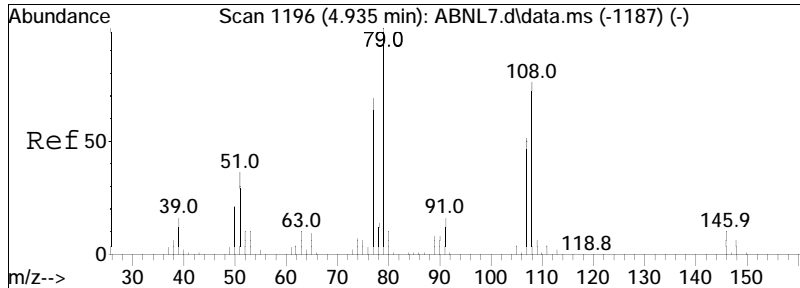




#12
 1,2-Dichlorobenzene
 Concen: 48.76 ug/ml
 RT: 5.071 min Scan# 1226
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

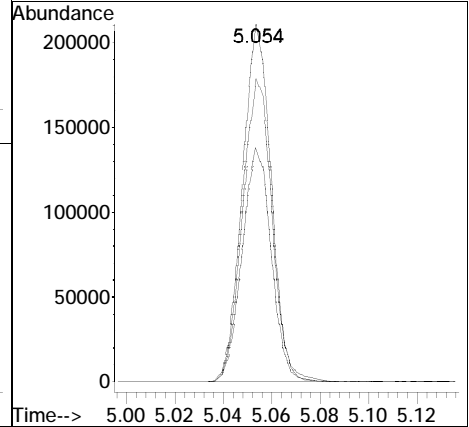
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.2	36.0	54.0
148	63.9	49.9	74.9

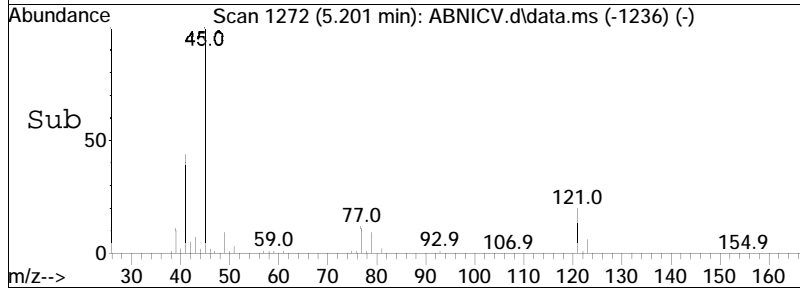
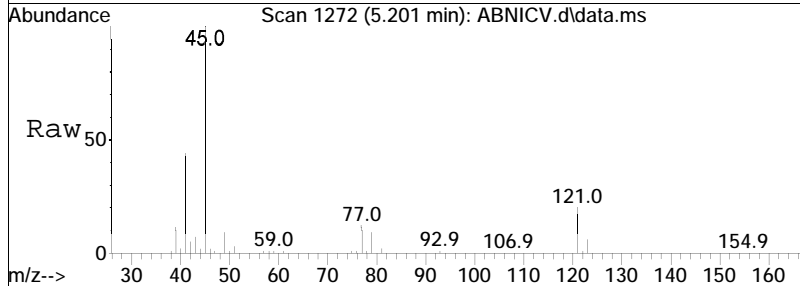
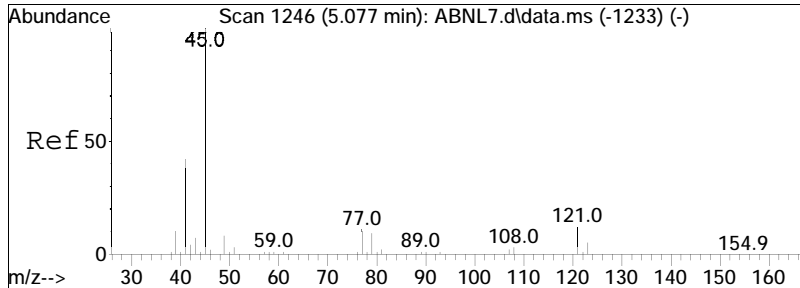




#13
 Benzyl alcohol
 Concen: 50.15 ug/ml
 RT: 5.054 min Scan# 1220
 Delta R.T. 0.001 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

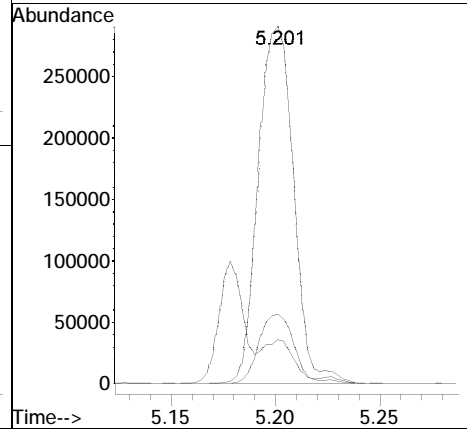
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
79	100		
77	66.6	52.3	78.5
108	87.4	60.2	90.4

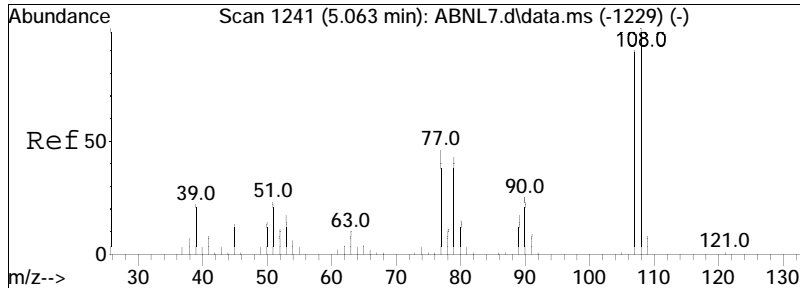




#14
 Bis(2-chloroisopropyl)ether
 Concen: 48.61 ug/ml
 RT: 5.201 min Scan# 1272
 Delta R.T. 0.003 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

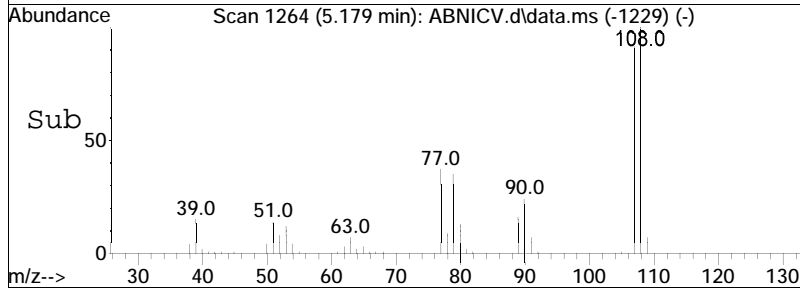
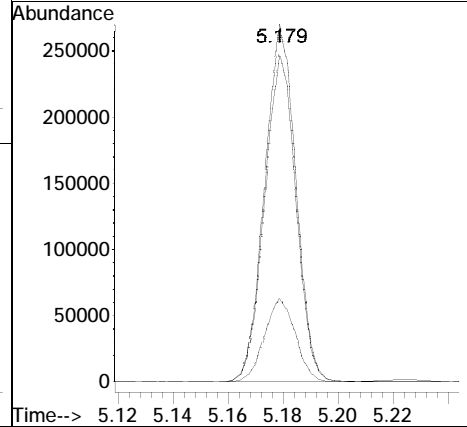
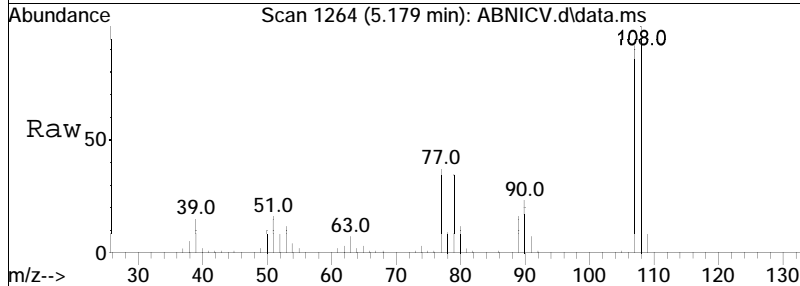
Tgt Ion:	45	Resp:	340105
Ion Ratio	100	Lower	Upper
121	19.4	12.6	19.0#
77	9.8	26.4	39.6#

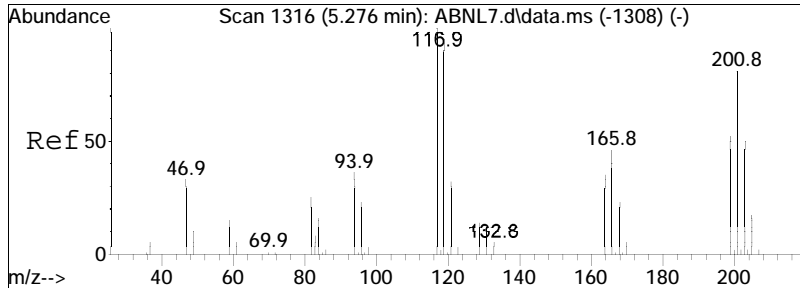




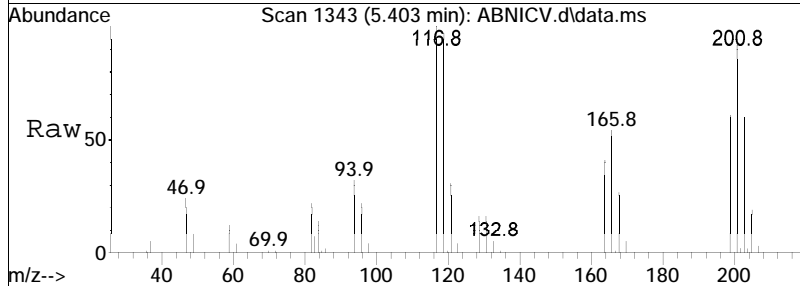
#15
 2-Methylphenol
 Concen: 48.90 ug/ml
 RT: 5.179 min Scan# 1264
 Delta R.T. 0.001 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

Tgt Ion	Ratio	Lower	Upper
108	100		
107	91.6	72.8	109.2
90	23.2	20.2	30.4

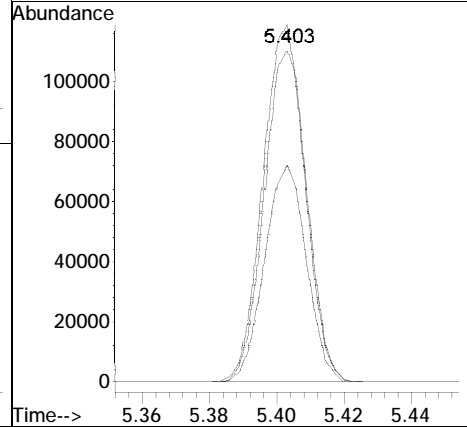
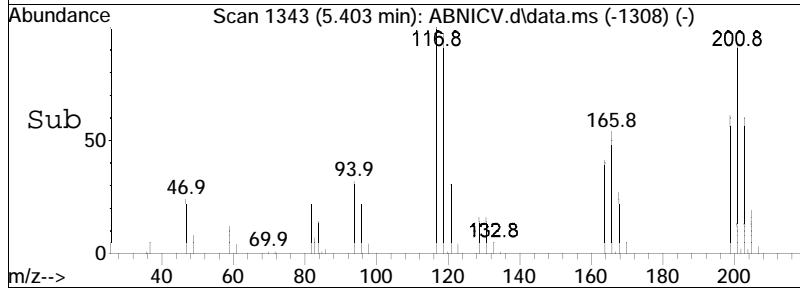


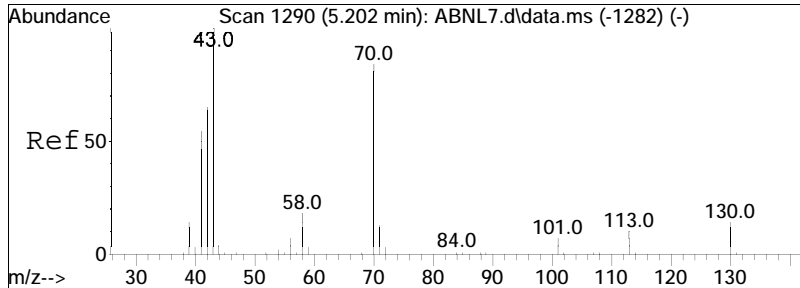


#16
 Hexachloroethane
 Concen: 49.38 ug/ml
 RT: 5.403 min Scan# 1343
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am



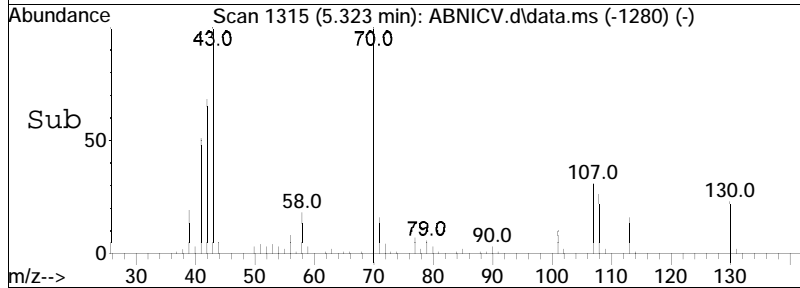
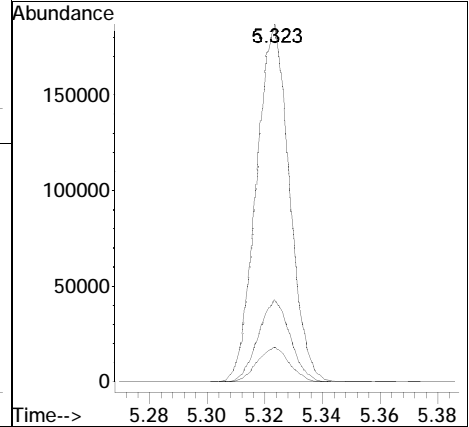
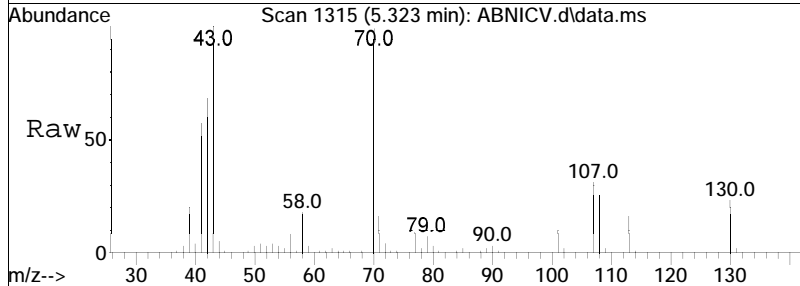
Tgt Ion	Resp	Lower	Upper
117	102223		
201	94.7	64.5	96.7
199	60.4	40.3	60.5

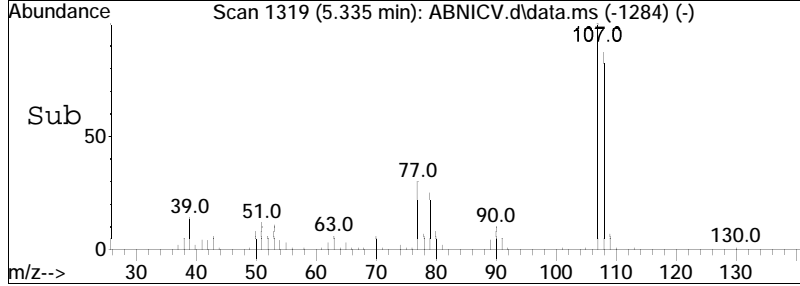
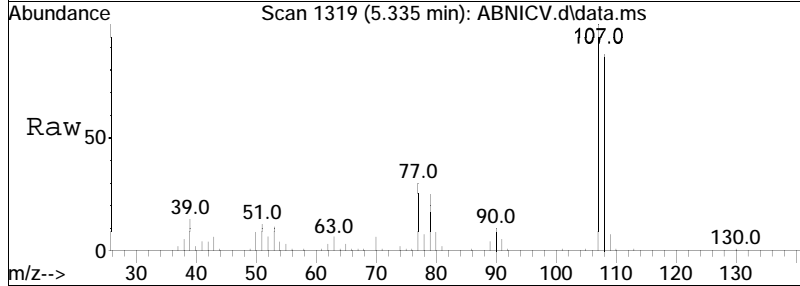
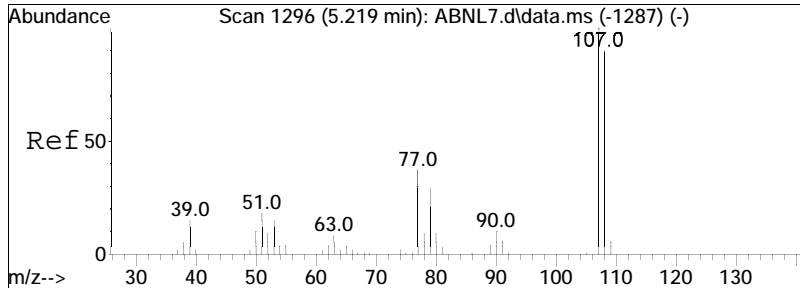




#17
 n-Nitrosodi-n-propylamine
 Concen: 48.99 ug/ml
 RT: 5.323 min Scan# 1315
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

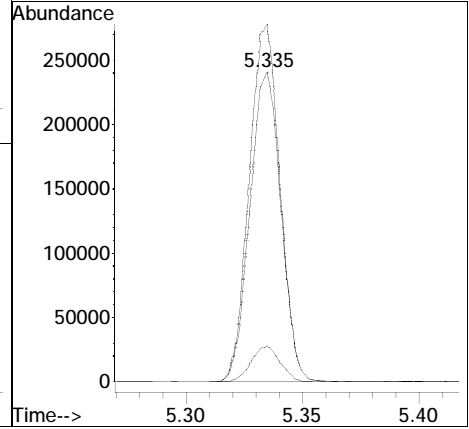
Tgt Ion	Resp	Lower	Upper
70	147810		
130	22.3	15.0	22.4
101	9.6	7.4	11.0

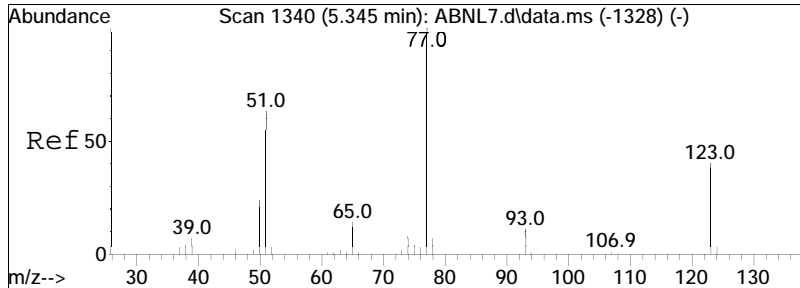




#18
 3-Methylphenol/4-Methylphenol
 Concen: 48.63 ug/ml
 RT: 5.335 min Scan# 1319
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

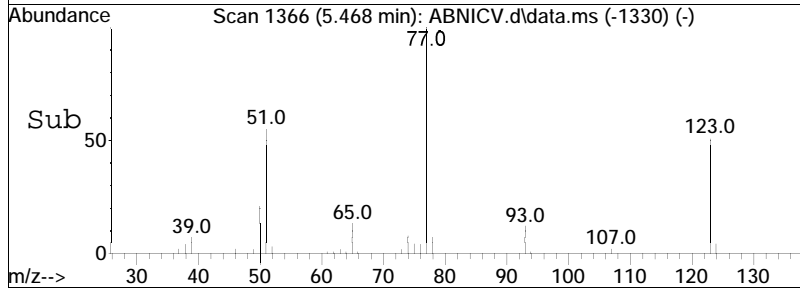
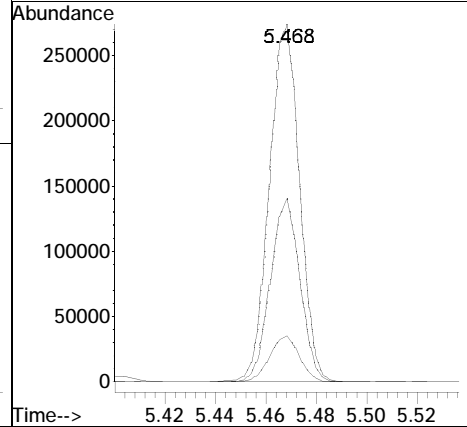
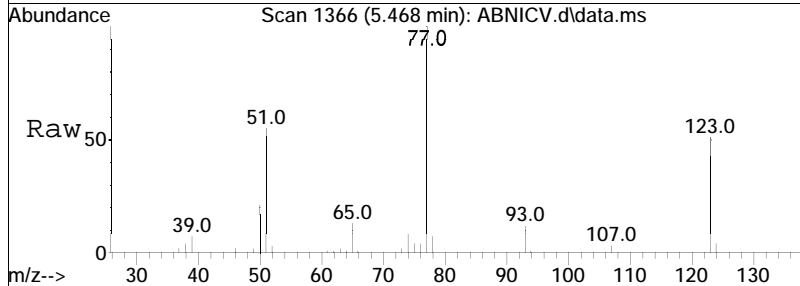
Tgt Ion	Resp	Lower	Upper
108	100		
107	114.3	90.4	135.6
90	10.9	9.2	13.8

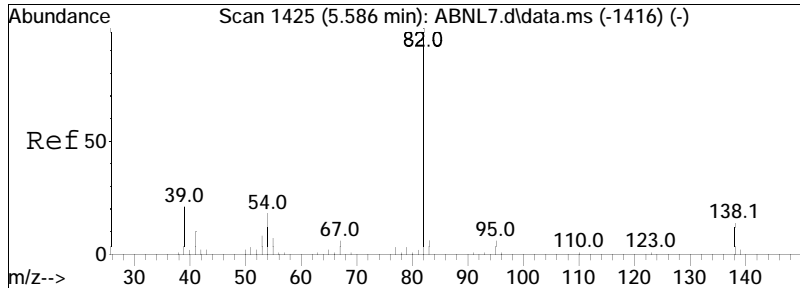




#20
 Nitrobenzene
 Concen: 49.61 ug/ml
 RT: 5.468 min Scan# 1366
 Delta R.T. 0.003 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

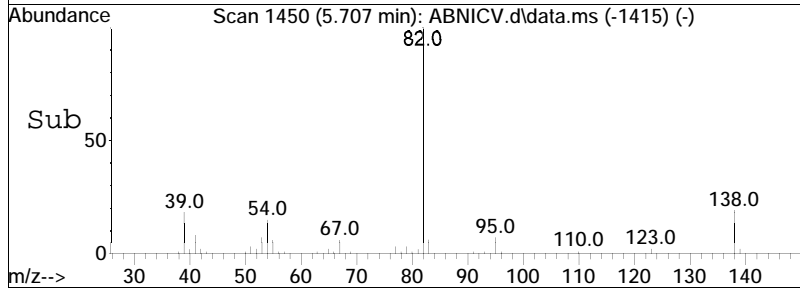
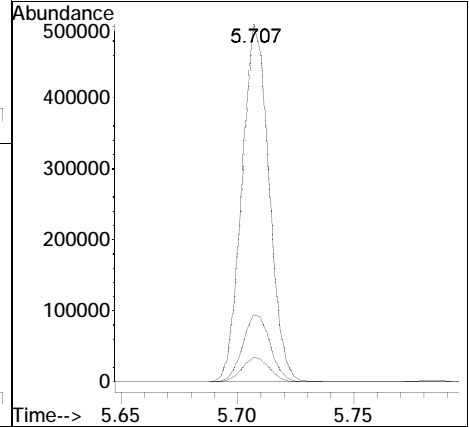
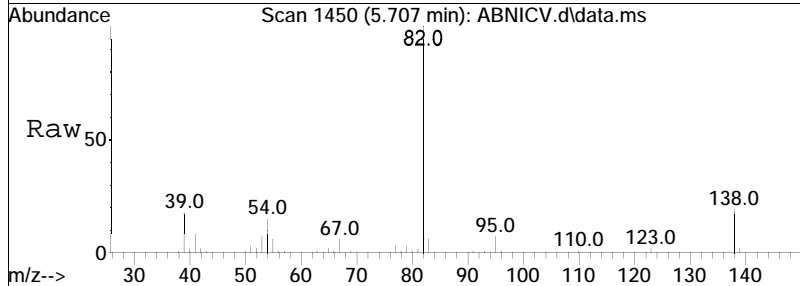
Tgt Ion	Resp	Lower	Upper
77	100		
123	50.2	35.0	52.4
65	12.9	11.5	17.3

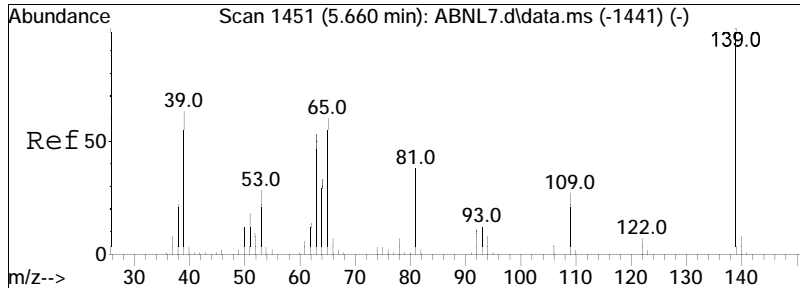




#21
 Isophorone
 Concen: 48.90 ug/ml
 RT: 5.707 min Scan# 1450
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

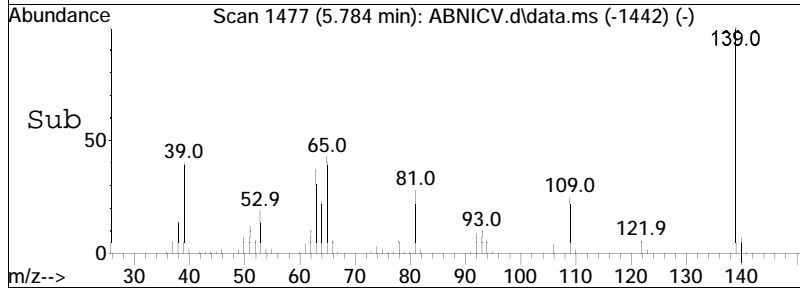
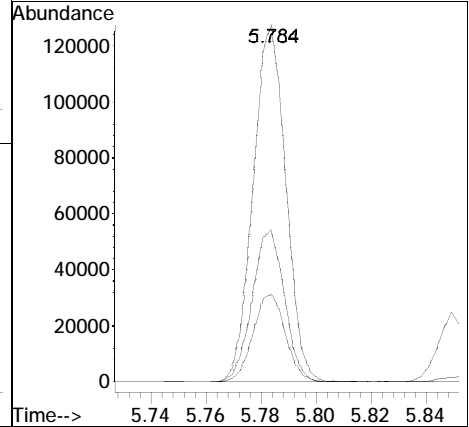
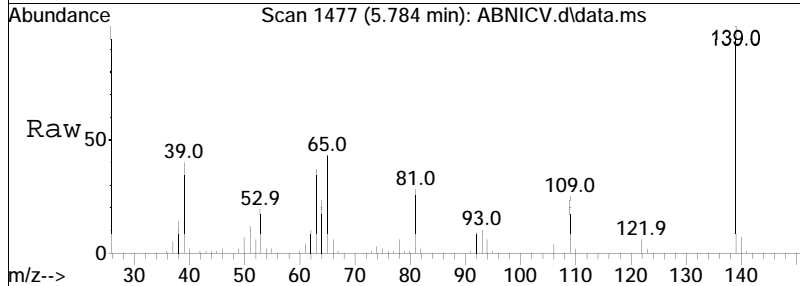
Tgt Ion	Resp	Lower	Upper
82	100		
138	19.1	12.8	19.2
95	7.0	5.5	8.3

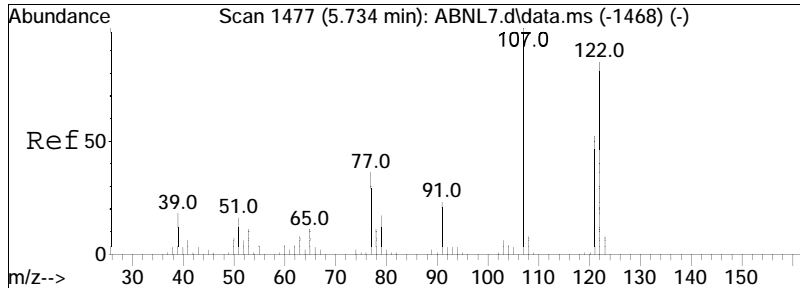




#22
 2-Nitrophenol
 Concen: 46.95 ug/ml
 RT: 5.784 min Scan# 1477
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

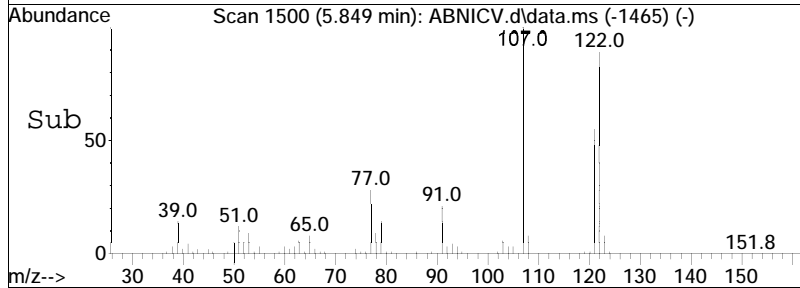
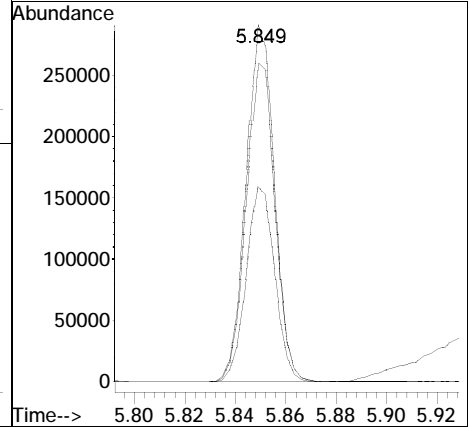
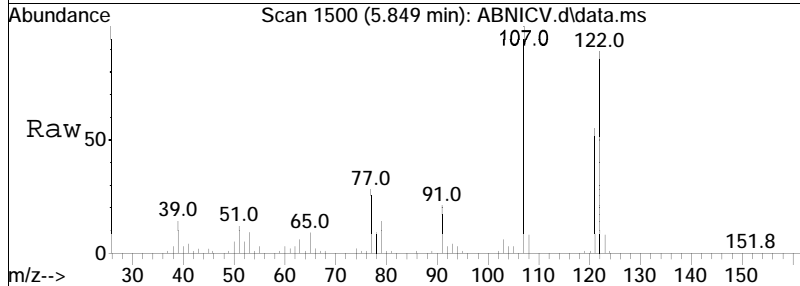
Tgt Ion	Resp	Lower	Upper
139	104160		
109	24.6	24.8	37.2#
65	42.3	45.5	68.3#

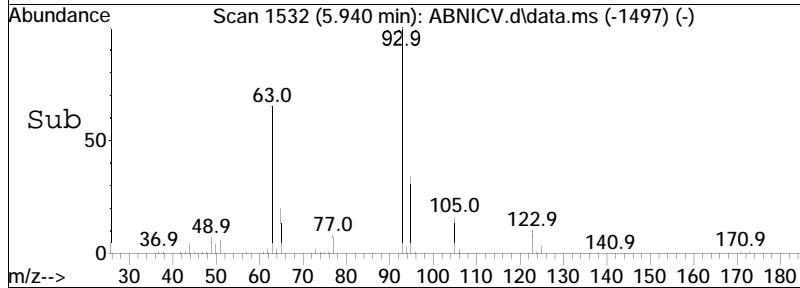
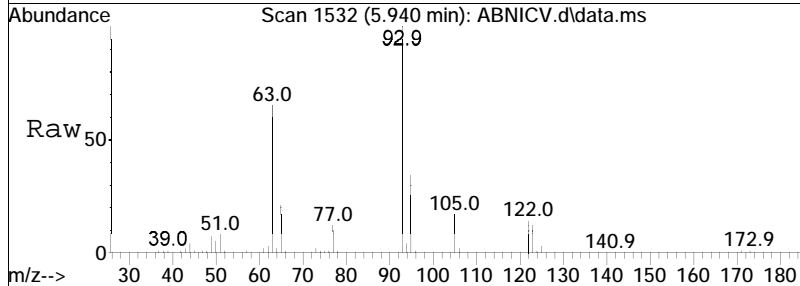
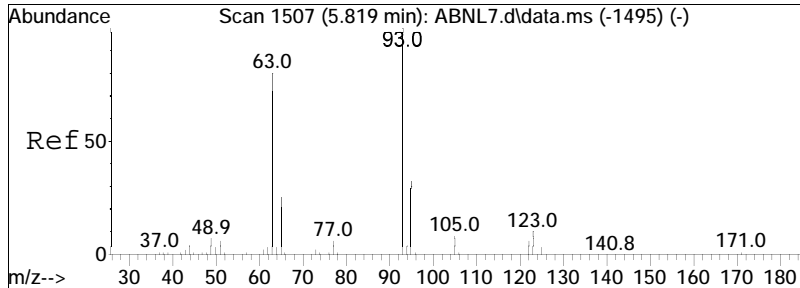




#23
 2,4-Dimethylphenol
 Concen: 48.81 ug/ml
 RT: 5.849 min Scan# 1500
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

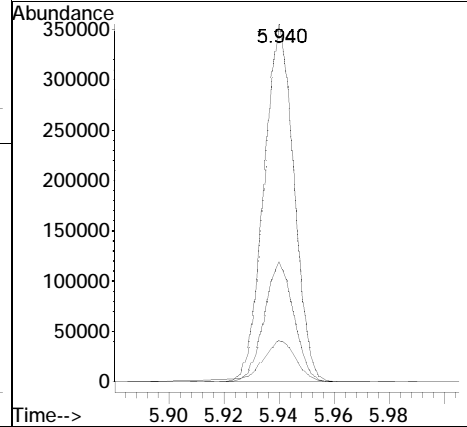
Tgt Ion	Resp	Lower	Upper
107	100		
121	55.1	39.7	59.5
122	90.3	66.8	100.2

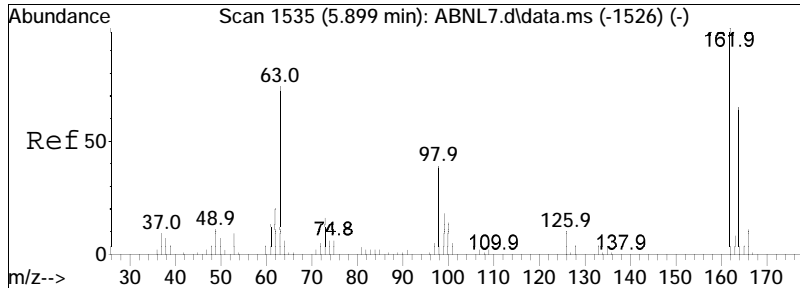




#24
 Bis(2-chloroethoxy)methane
 Concen: 49.83 ug/ml
 RT: 5.940 min Scan# 1532
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

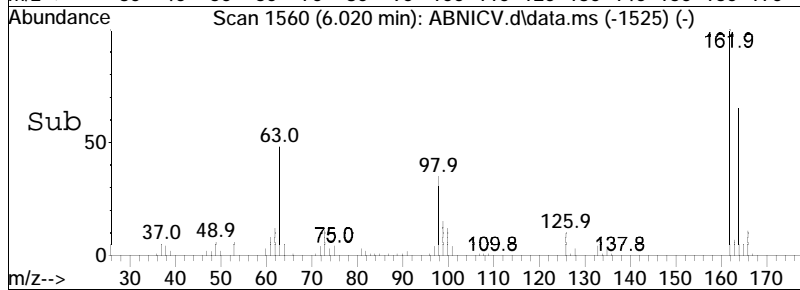
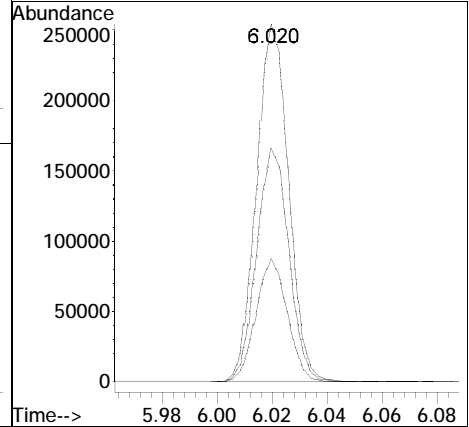
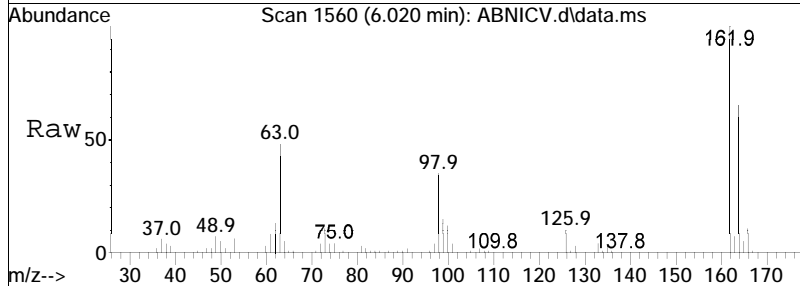
Tgt Ion:	93	Resp:	266162
Ion Ratio	Lower	Upper	
93	100		
95	33.3	26.1	39.1
123	13.9	9.8	14.8

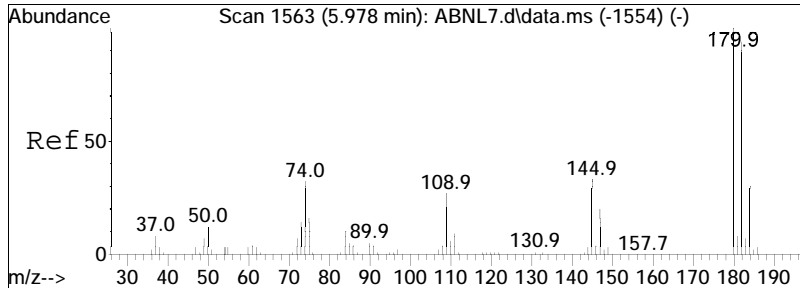




#25
 2,4-Dichlorophenol
 Concen: 49.53 ug/ml
 RT: 6.020 min Scan# 1560
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

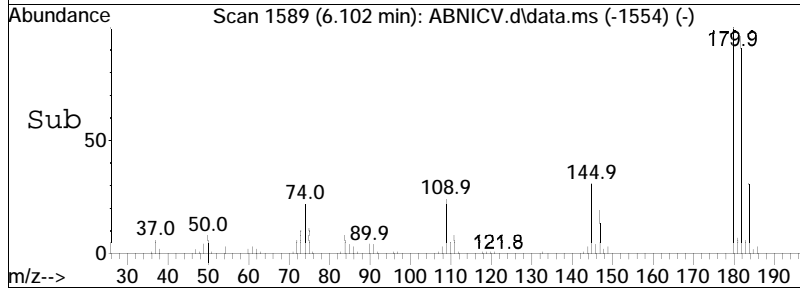
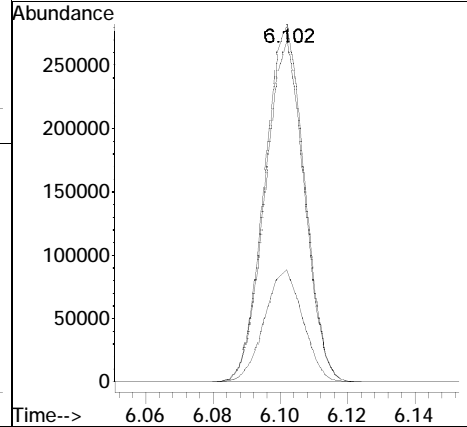
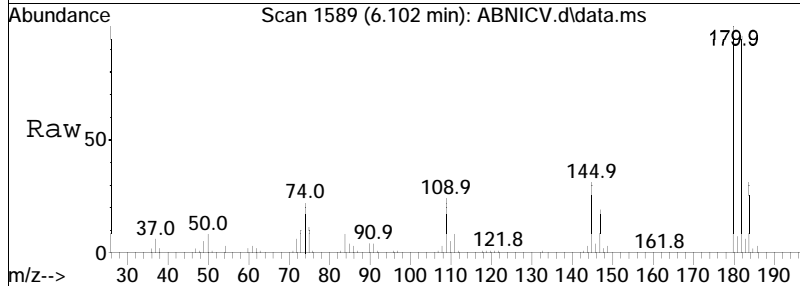
Tgt Ion	Ratio	Lower	Upper
162	100		
164	65.8	50.4	75.6
98	33.9	31.6	47.4

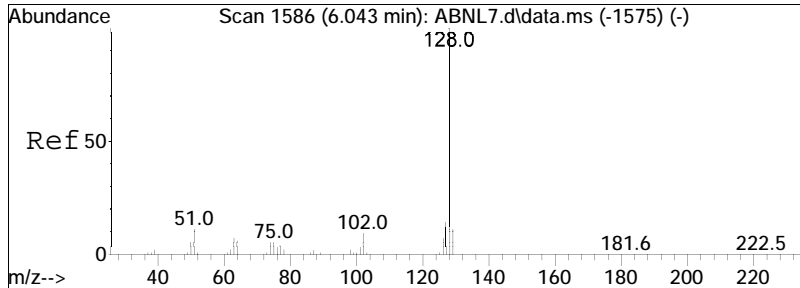




#26
 1,2,4-Trichlorobenzene
 Concen: 49.20 ug/ml
 RT: 6.102 min Scan# 1589
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

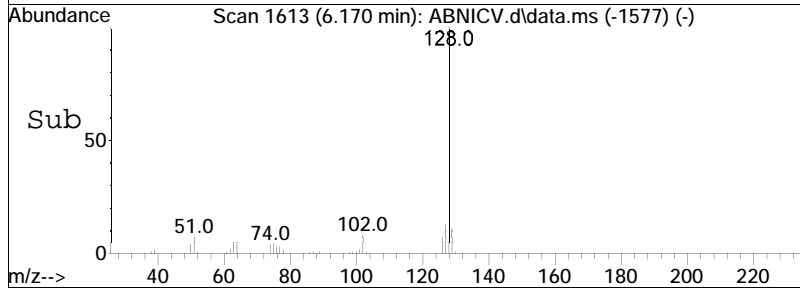
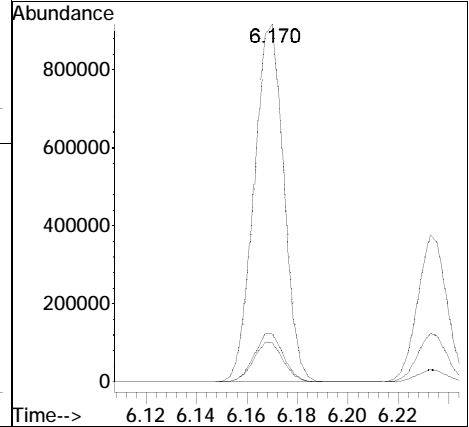
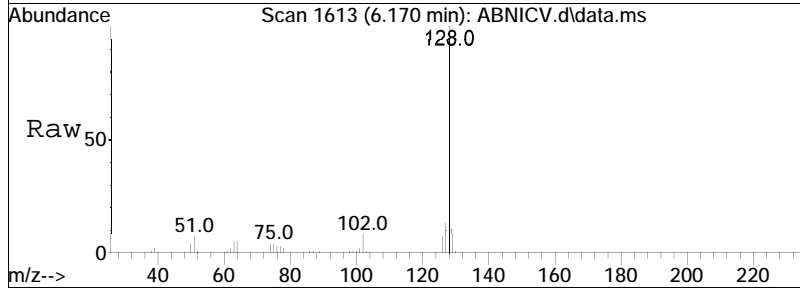
Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.7	74.7	112.1
145	30.5	26.6	39.8

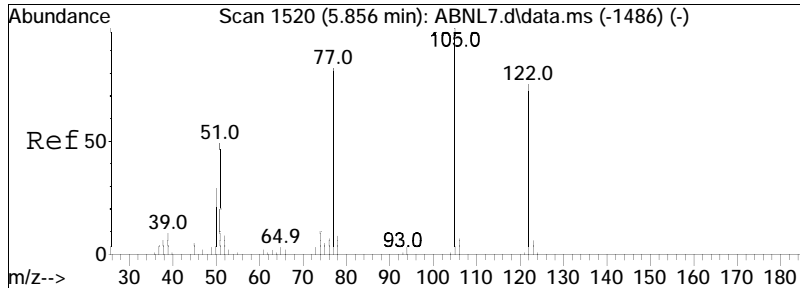




#36
 Naphthalene
 Concen: 48.23 ug/ml
 RT: 6.170 min Scan# 1613
 Delta R.T. 0.003 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

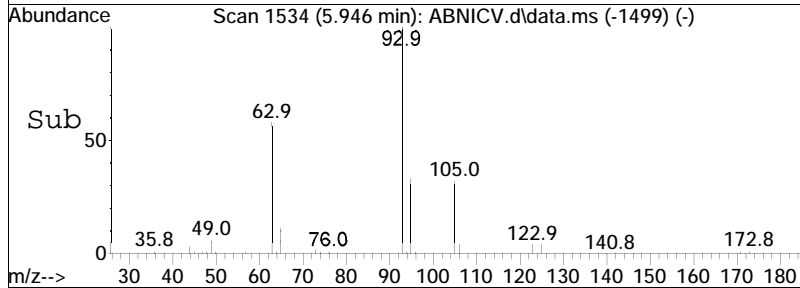
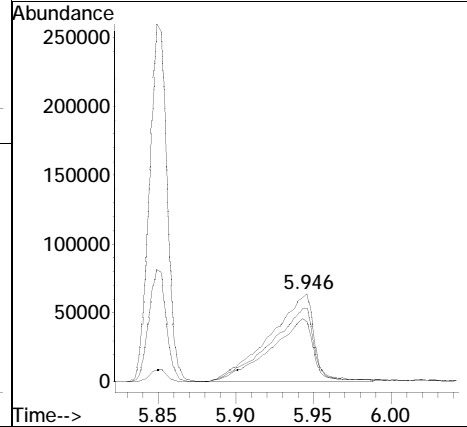
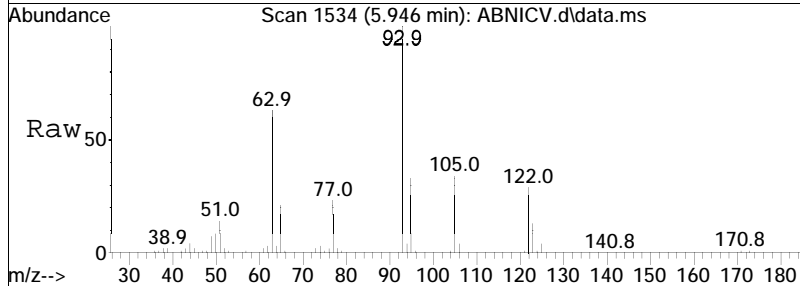
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.7	13.1
127	13.4	10.7	16.1

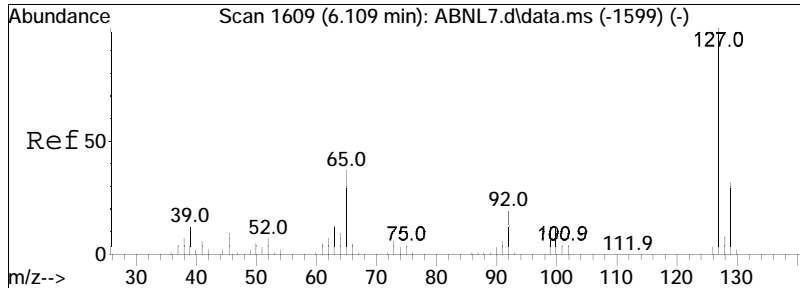




#37
 Benzoic Acid
 Concen: 40.23 ug/ml
 RT: 5.946 min Scan# 1534
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

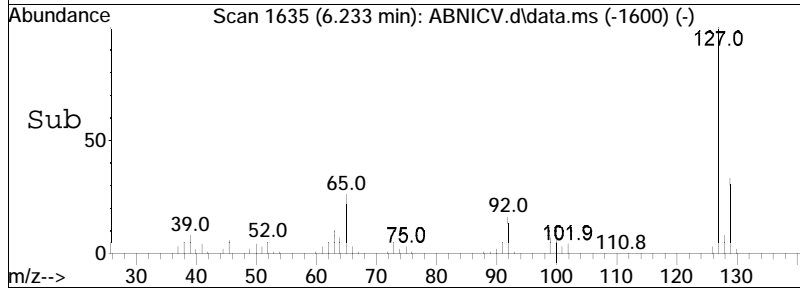
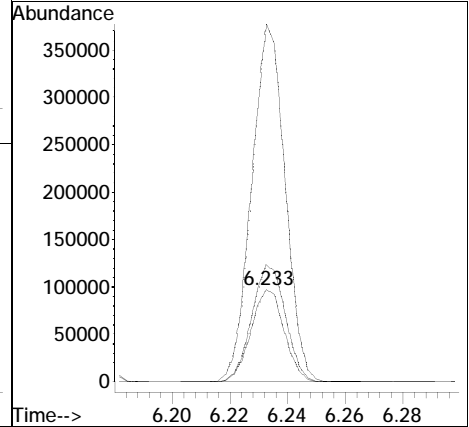
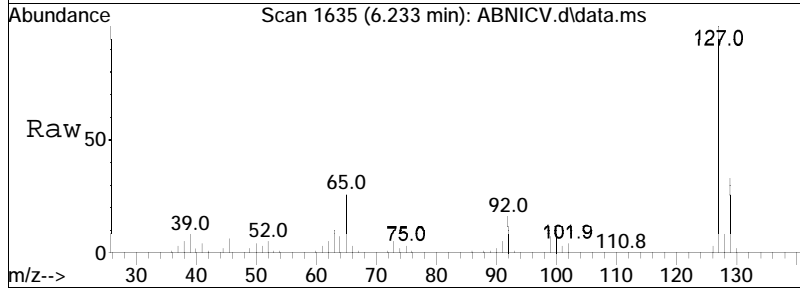
Tgt Ion	Resp	Lower	Upper
105	100		
122	80.0	61.8	92.6
77	70.1	62.2	93.4

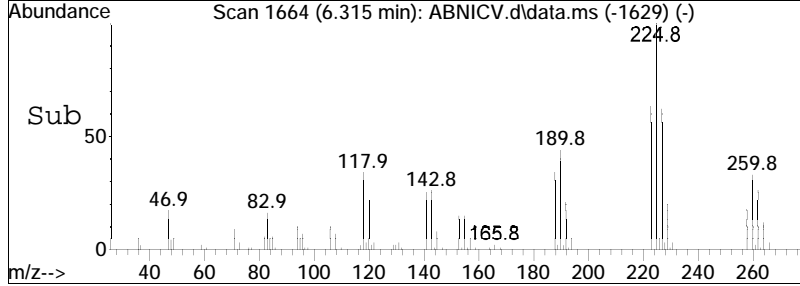
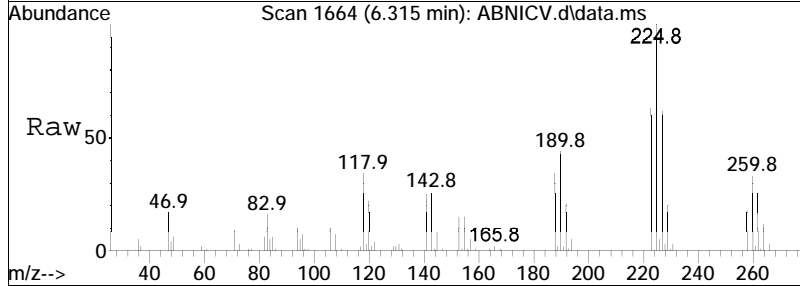
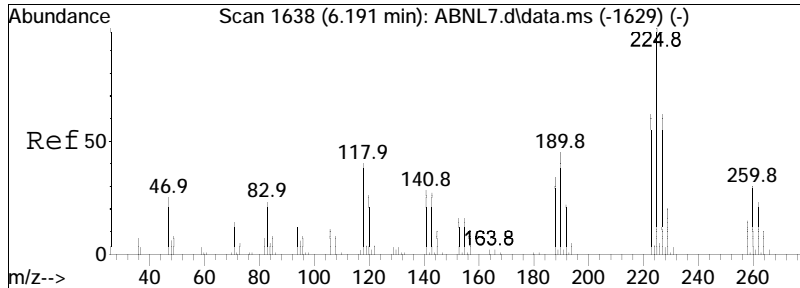




#38
 4-Chloroaniline
 Concen: 48.69 ug/ml
 RT: 6.233 min Scan# 1635
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

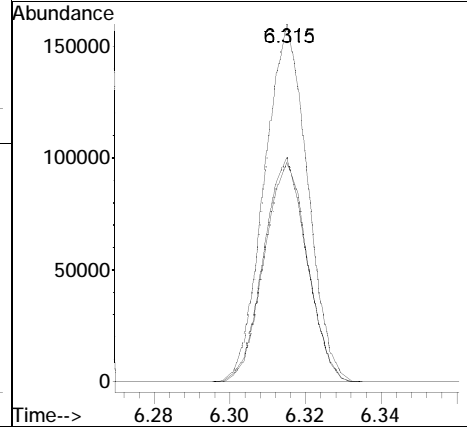
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
65	100		
127	386.4	233.2	349.8#
129	128.3	74.6	111.8#

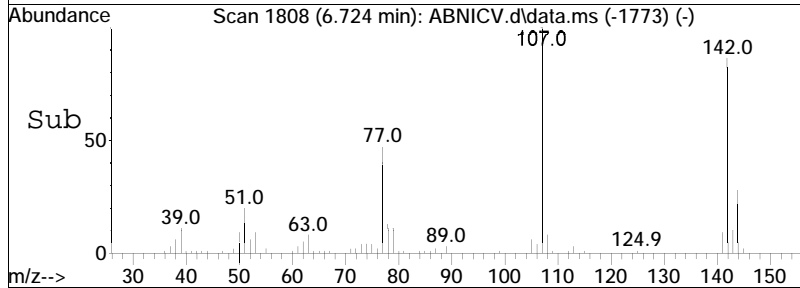
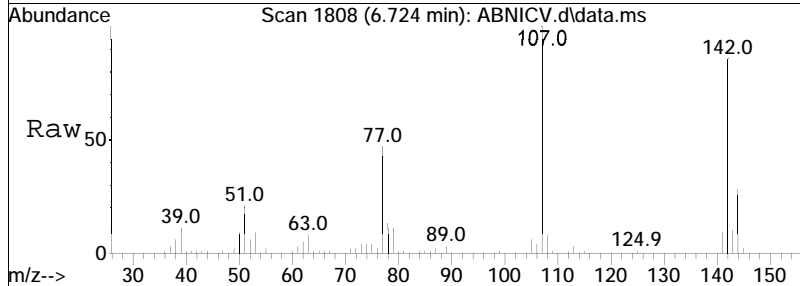
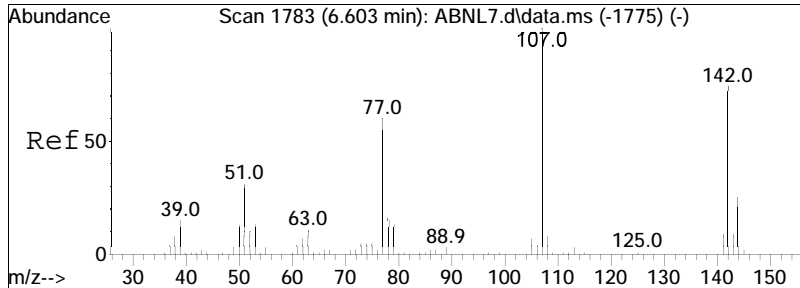




#39
 Hexachlorobutadiene
 Concen: 49.14 ug/ml
 RT: 6.315 min Scan# 1664
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

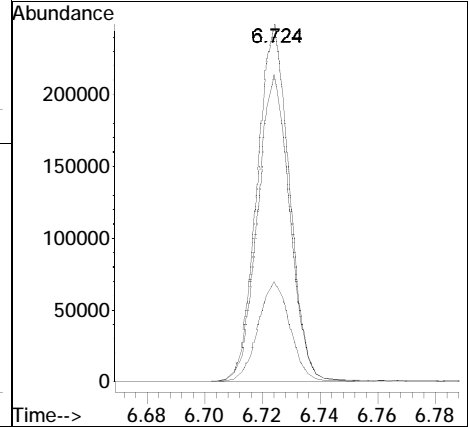
Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	49.4	74.0
227	61.6	50.8	76.2

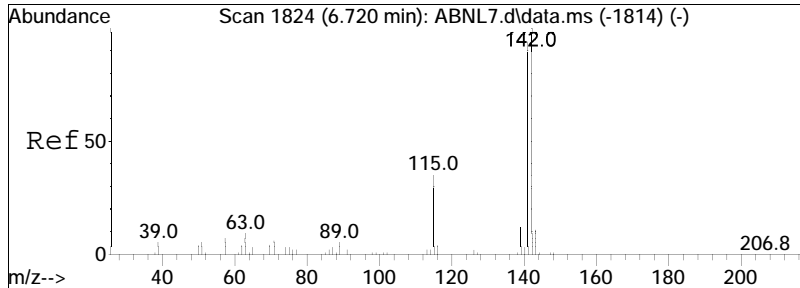




#40
 p-Chloro-m-cresol
 Concen: 49.38 ug/ml
 RT: 6.724 min Scan# 1808
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

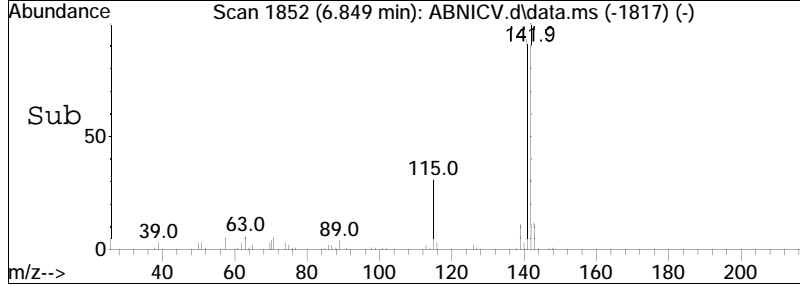
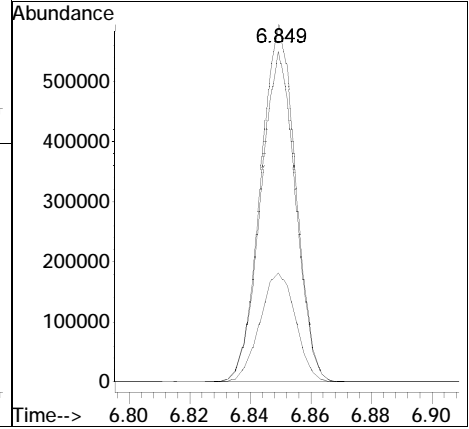
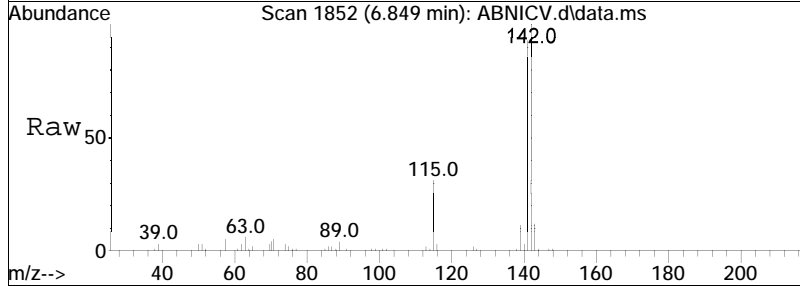
Tgt Ion	Resp	Lower	Upper
107	100		
144	27.9	19.6	29.4
142	85.8	62.2	93.4

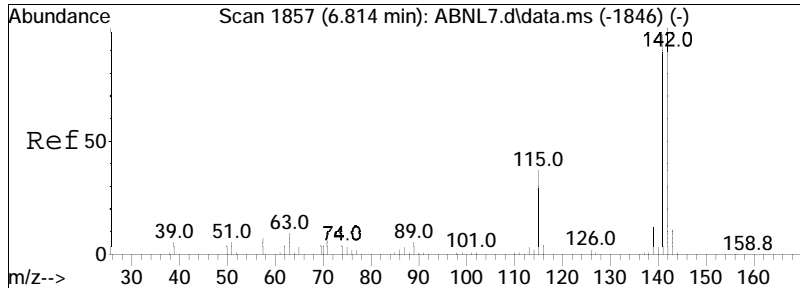




#41
 2-Methylnaphthalene
 Concen: 49.52 ug/ml
 RT: 6.849 min Scan# 1852
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

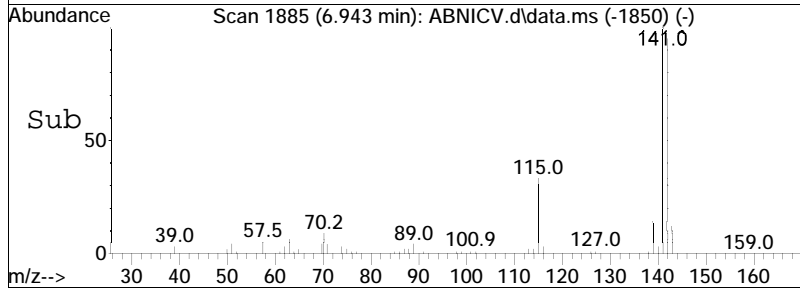
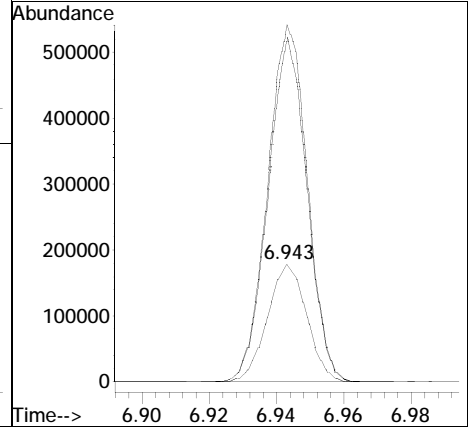
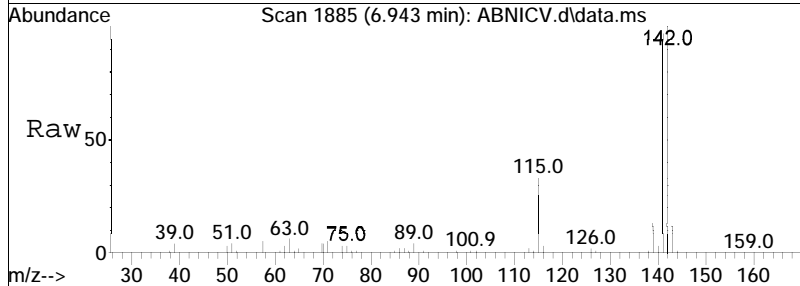
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.6	71.8	107.8
115	31.2	29.1	43.7

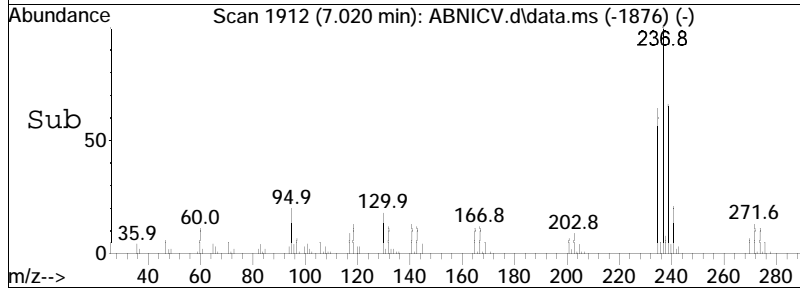
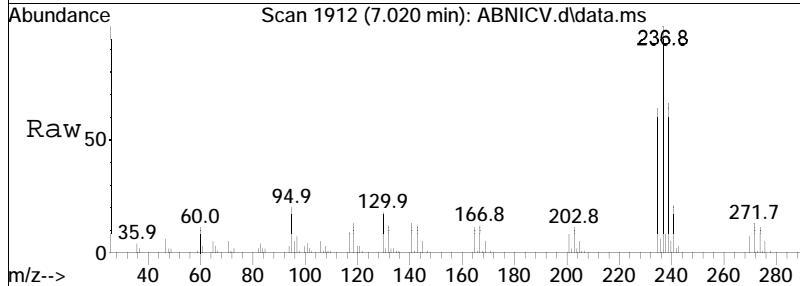
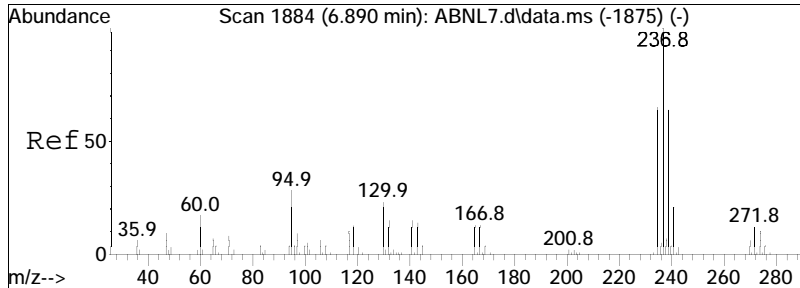




#42
 1-Methylnaphthalene
 Concen: 48.06 ug/ml
 RT: 6.943 min Scan# 1885
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

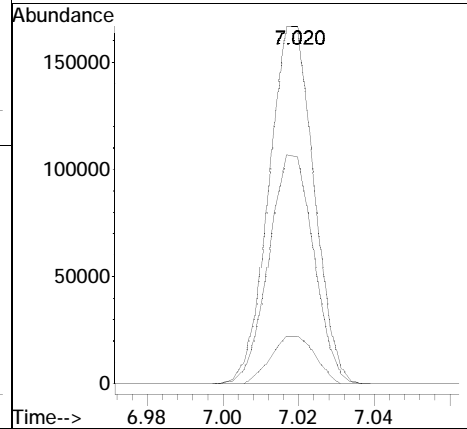
Tgt Ion	Resp	Lower	Upper
115	100		
141	288.8	196.6	294.8
142	307.0	209.2	313.8

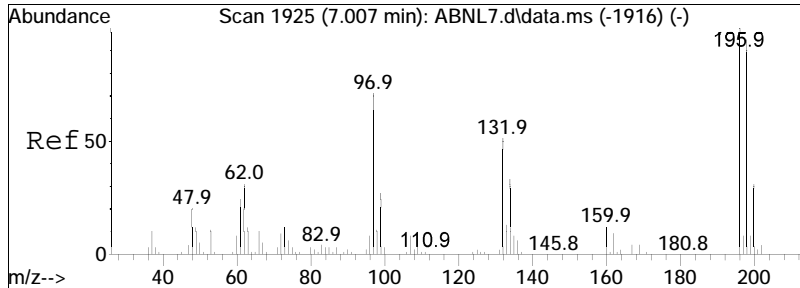




#43
 Hexachlorocyclopentadiene
 Concen: 49.18 ug/ml
 RT: 7.020 min Scan# 1912
 Delta R.T. 0.003 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

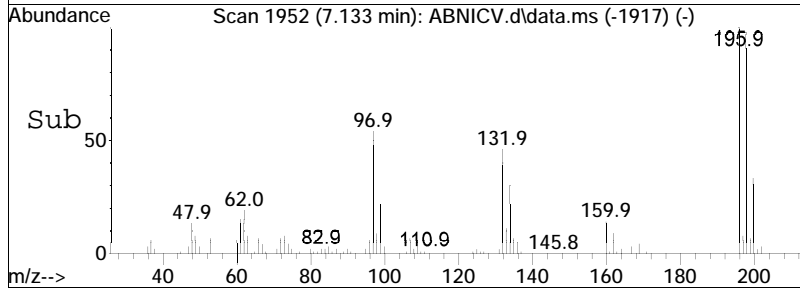
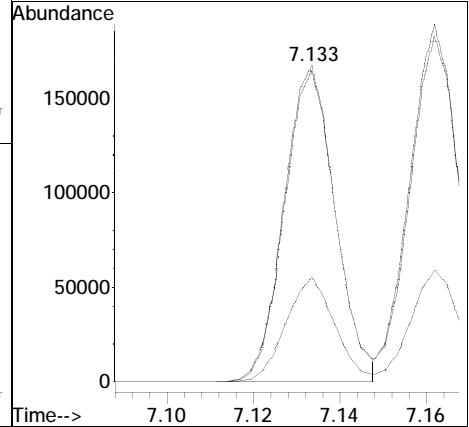
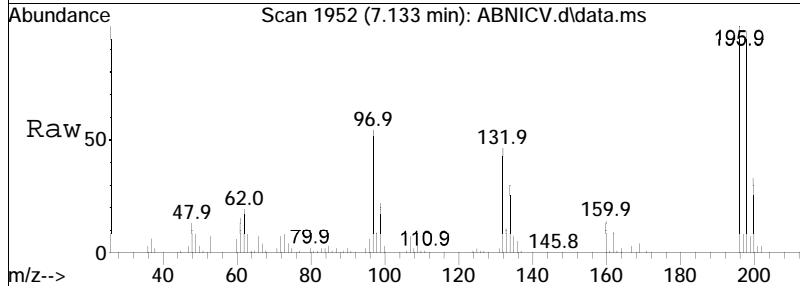
Tgt Ion	Resp	Lower	Upper
237	100		
235	64.3	47.8	71.6
272	13.2	10.4	15.6

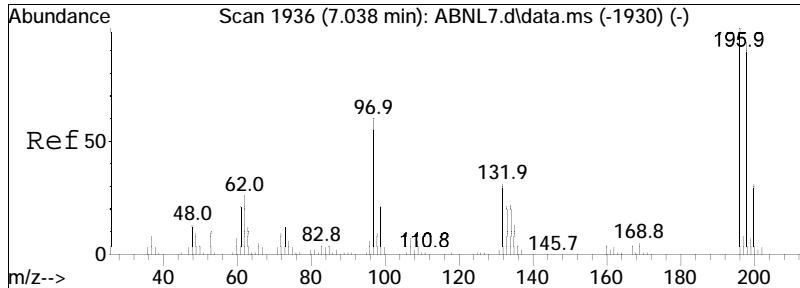




#44
 2,4,6-Trichlorophenol
 Concen: 49.76 ug/ml
 RT: 7.133 min Scan# 1952
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

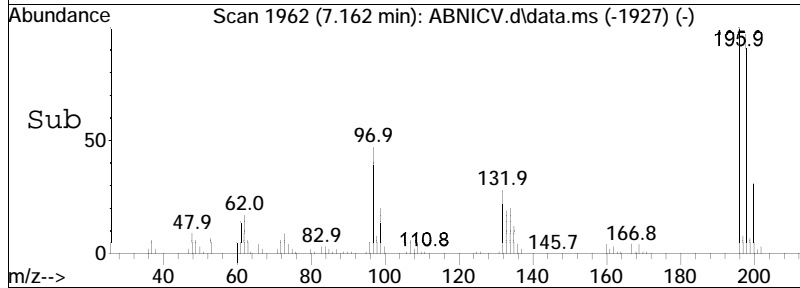
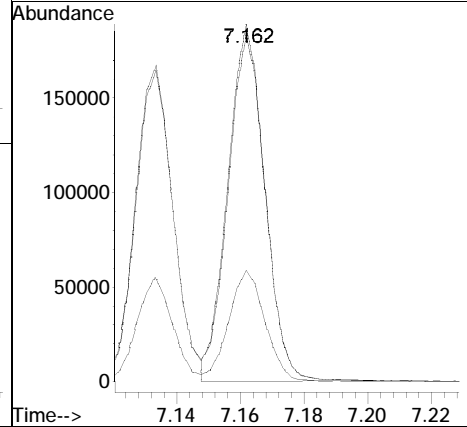
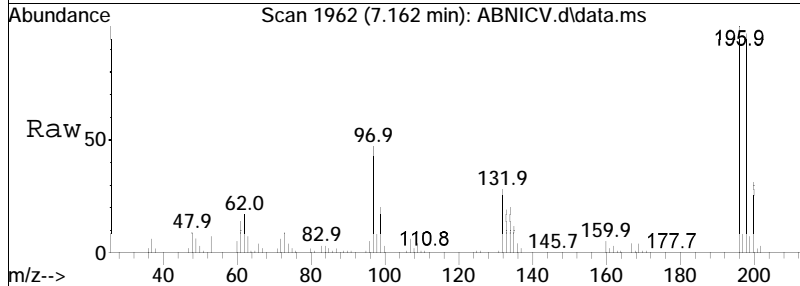
Tgt Ion	Resp	Lower	Upper
196	136838		
196	100		
198	98.1	81.5	122.3
200	31.8	26.2	39.2

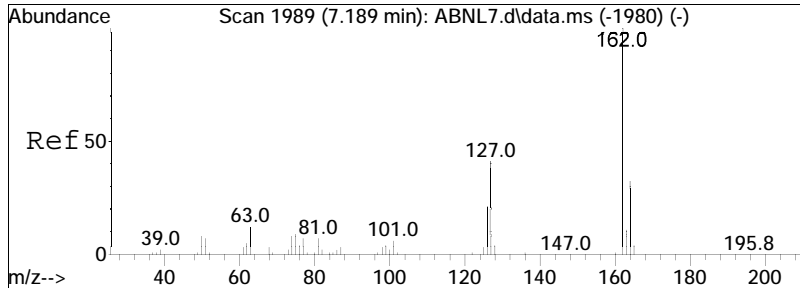




#45
 2,4,5-Trichlorophenol
 Concen: 48.76 ug/ml
 RT: 7.162 min Scan# 1962
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

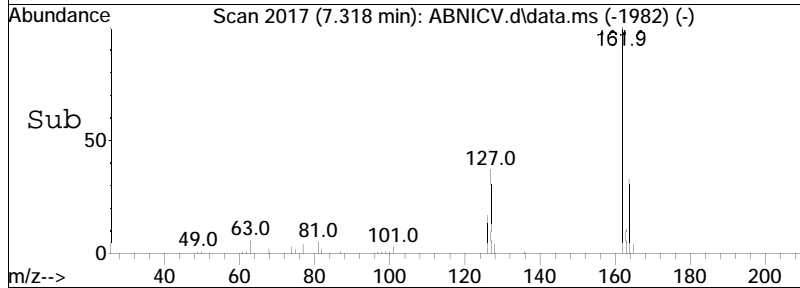
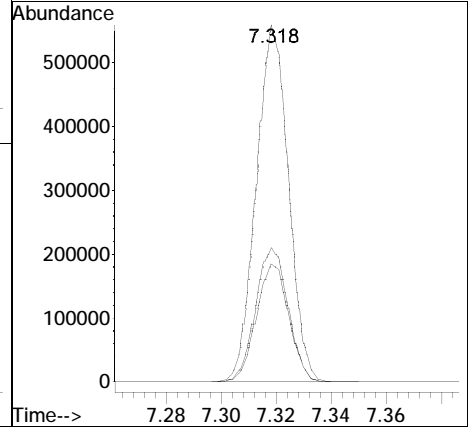
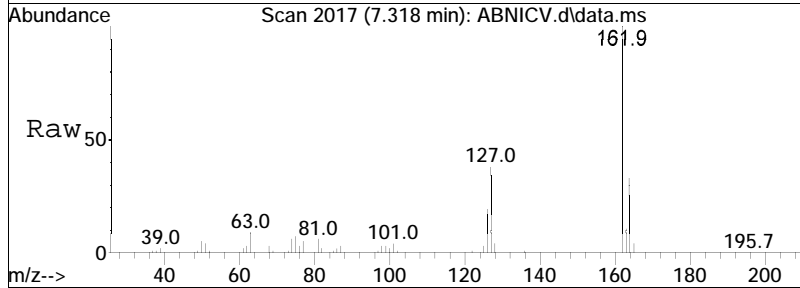
Tgt Ion	Resp	Lower	Upper
196	151532		
196	100		
200	30.6	25.5	38.3
198	97.5	79.2	118.8

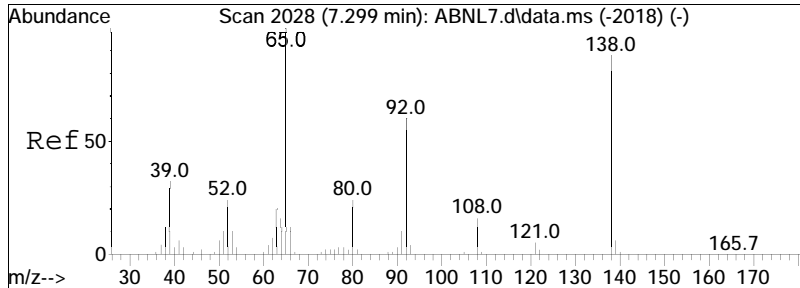




#47
 2-Chloronaphthalene
 Concen: 47.35 ug/ml
 RT: 7.318 min Scan# 2017
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

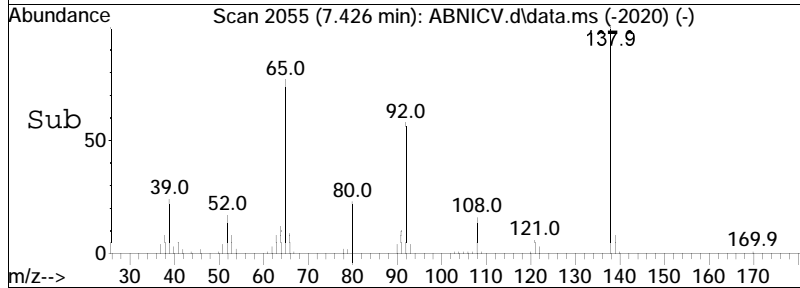
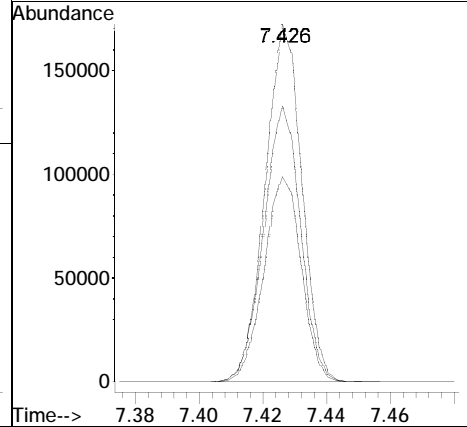
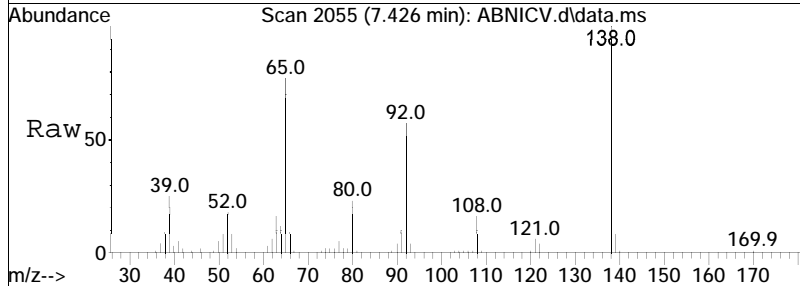
Tgt Ion	Ratio	Lower	Upper
162	100		
127	38.1	33.6	50.4
164	33.5	25.8	38.8

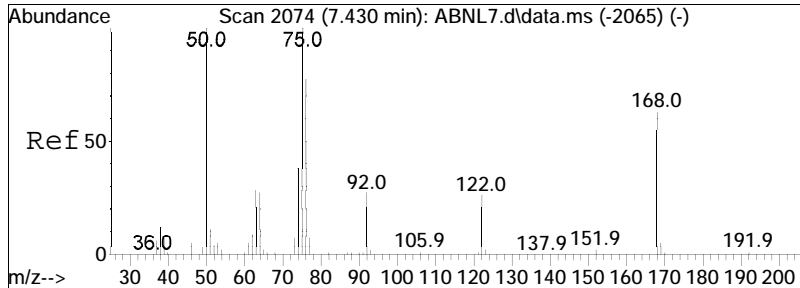




#48
 2-Nitroaniline
 Concen: 45.91 ug/ml
 RT: 7.426 min Scan# 2055
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

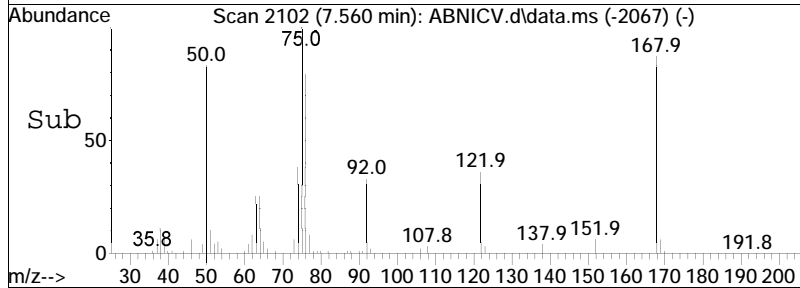
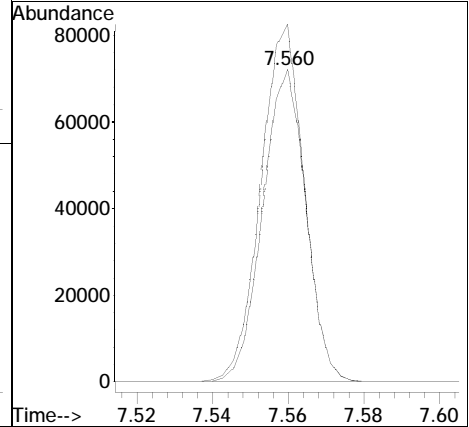
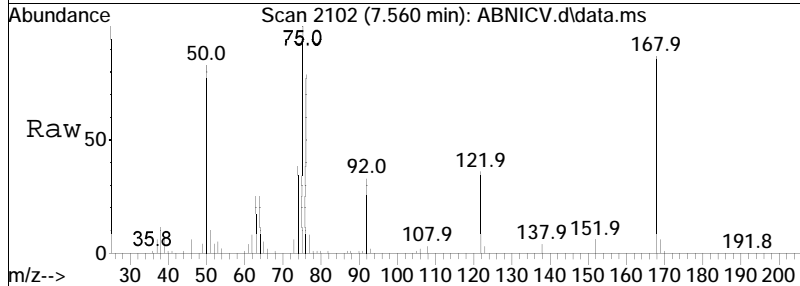
Tgt Ion	Resp	Lower	Upper
138	100		
92	58.5	54.2	81.2
65	77.8	82.8	124.2#

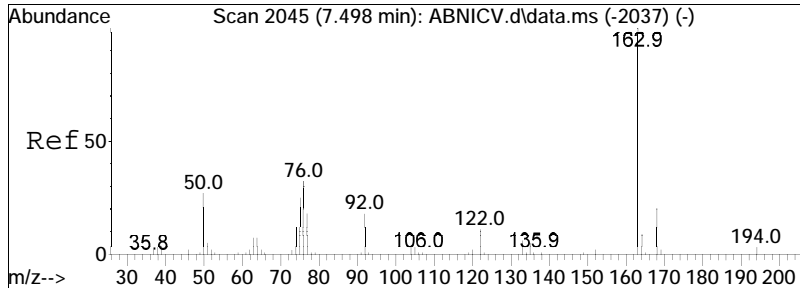




#49
 1,4-Dinitrobenzene
 Concen: 40.48 ug/ml
 RT: 7.560 min Scan# 2102
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

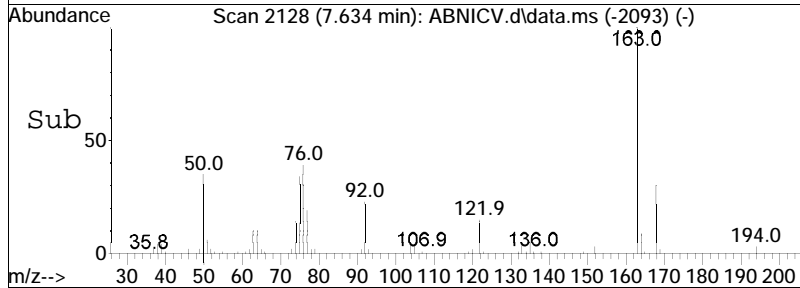
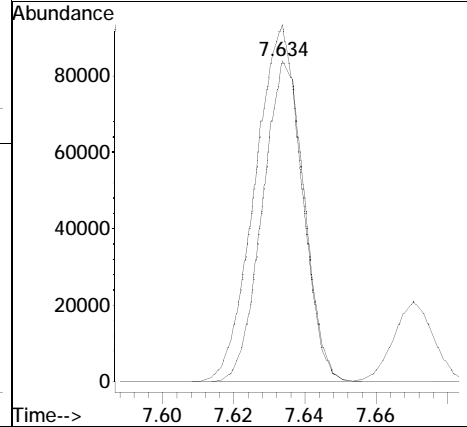
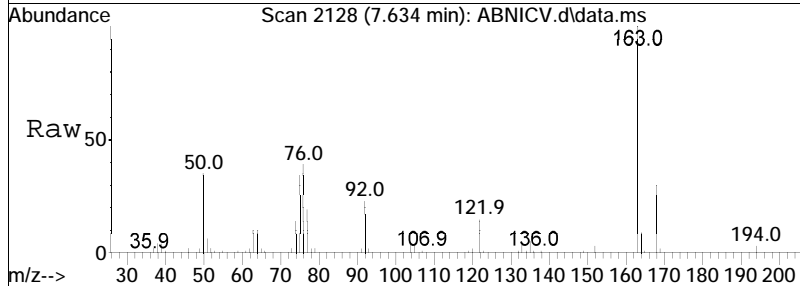
Tgt Ion: 168 Resp: 56905
 Ion Ratio Lower Upper
 168 100
 75 115.1 120.1 180.1#

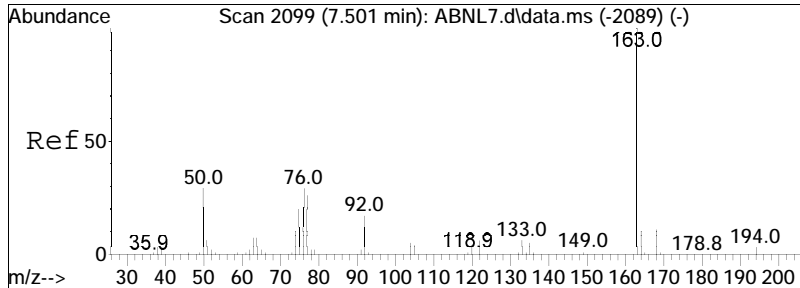




#50
 1,3-Dinitrobenzene
 Concen: 40.19 ug/ml
 RT: 7.634 min Scan# 2128
 Delta R.T. 0.001 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

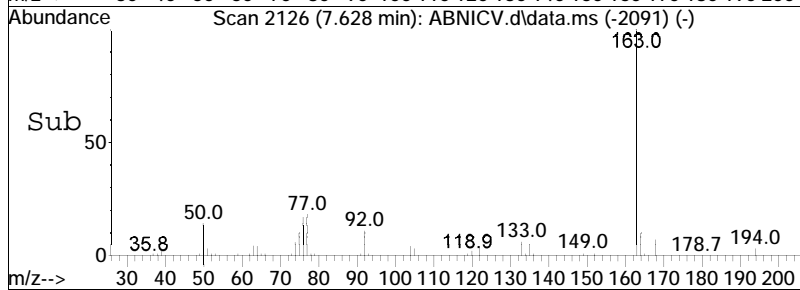
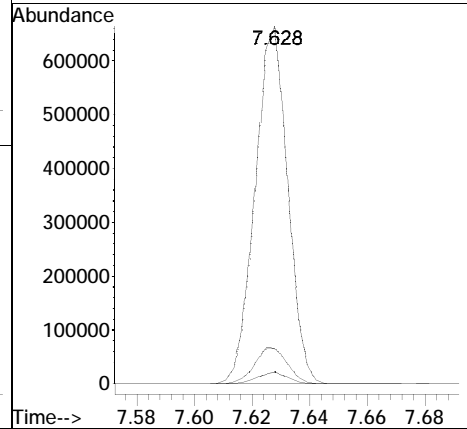
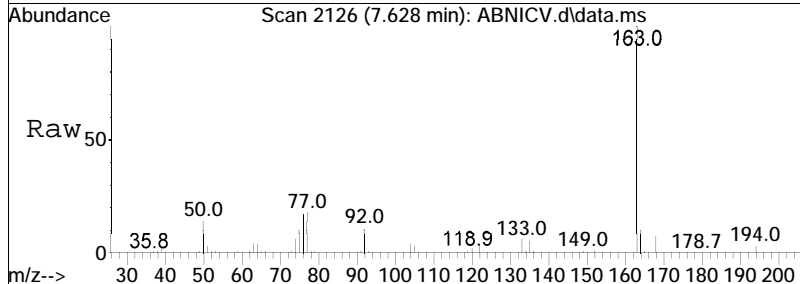
Tgt Ion: 168 Resp: 68118
 Ion Ratio Lower Upper
 168 100
 75 123.2 123.2 184.8

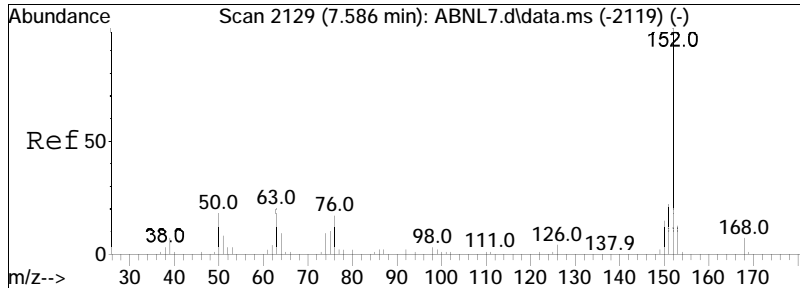




#51
 Dimethyl phthalate
 Concen: 47.20 ug/ml
 RT: 7.628 min Scan# 2126
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

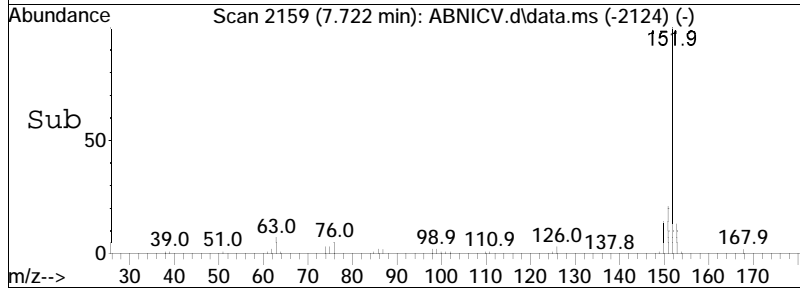
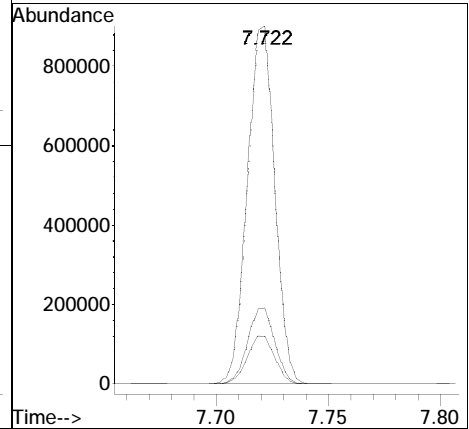
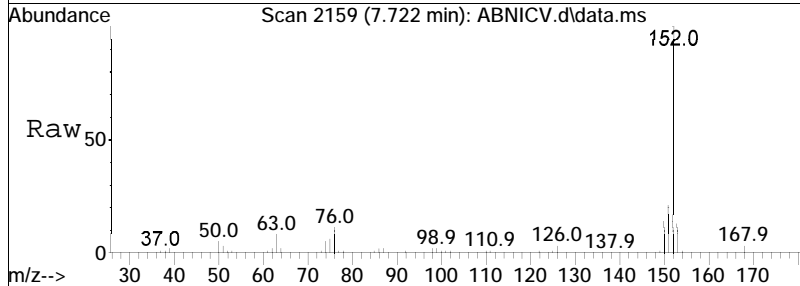
Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.1	2.6	4.0
164	10.3	8.2	12.4

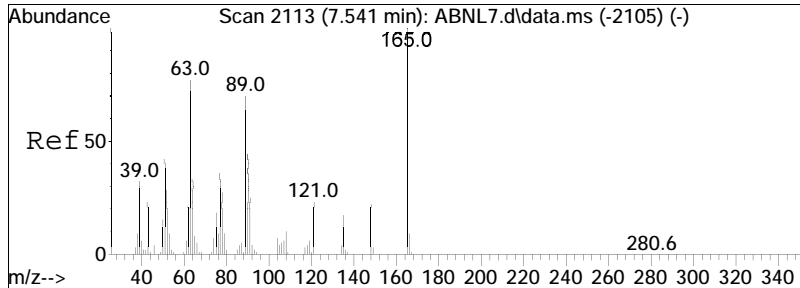




#52
 Acenaphthylene
 Concen: 51.92 ug/ml
 RT: 7.722 min Scan# 2159
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

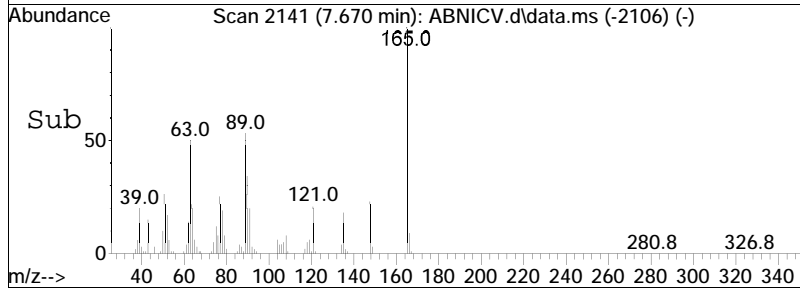
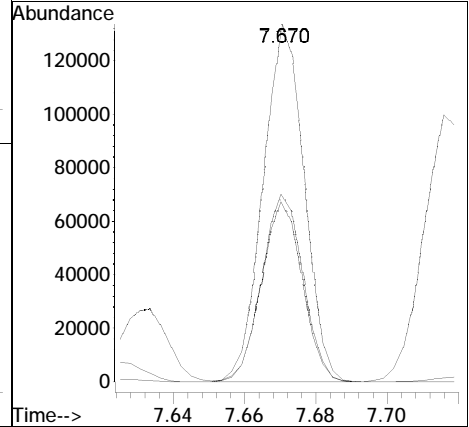
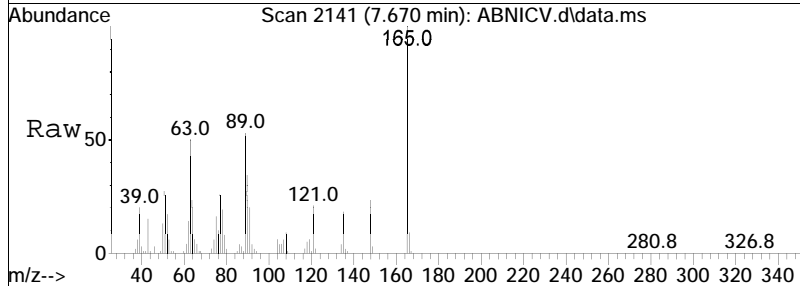
Tgt Ion	Resp	Lower	Upper
152	100		
151	21.1	16.4	24.6
153	13.5	11.0	16.6

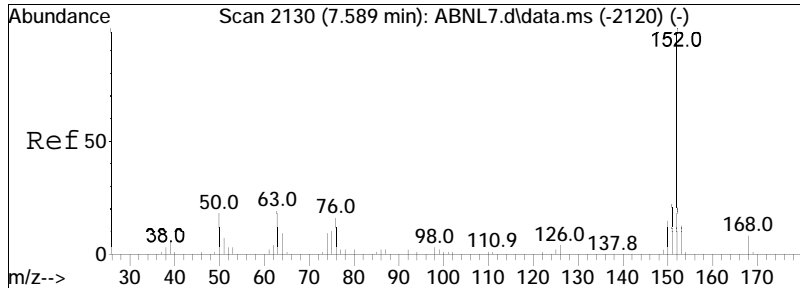




#53
 2,6-Dinitrotoluene
 Concen: 47.74 ug/ml
 RT: 7.670 min Scan# 2141
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

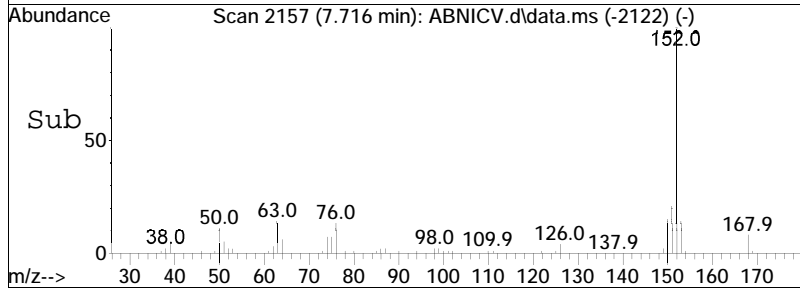
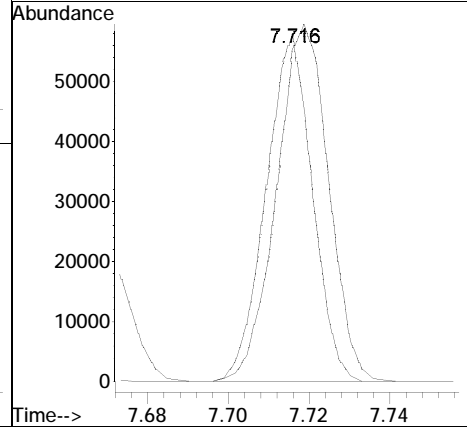
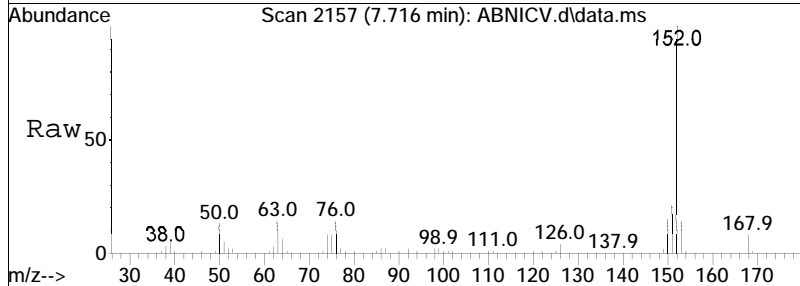
Tgt Ion	Ratio	Lower	Upper
165	100		
89	52.6	50.4	75.6
63	50.1	56.9	85.3#

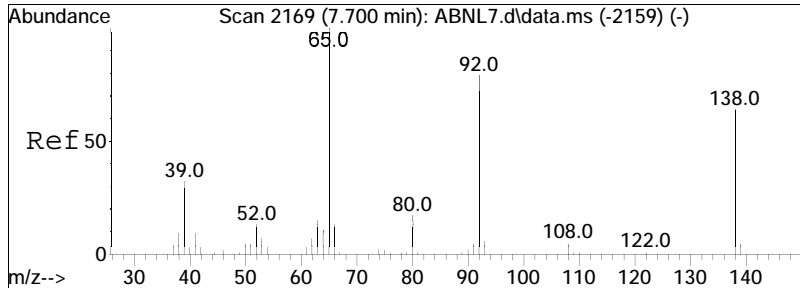




#54
 1,2-Dinitrobenzene
 Concen: 46.36 ug/ml
 RT: 7.716 min Scan# 2157
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

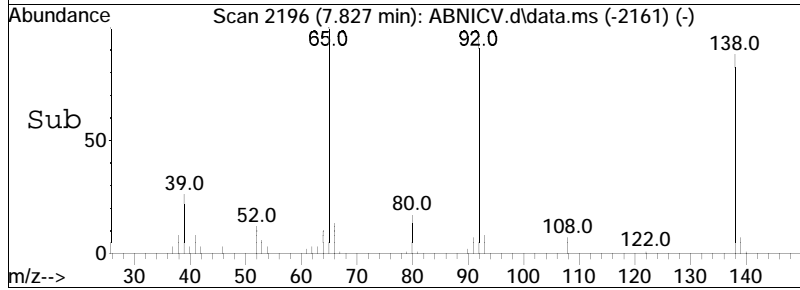
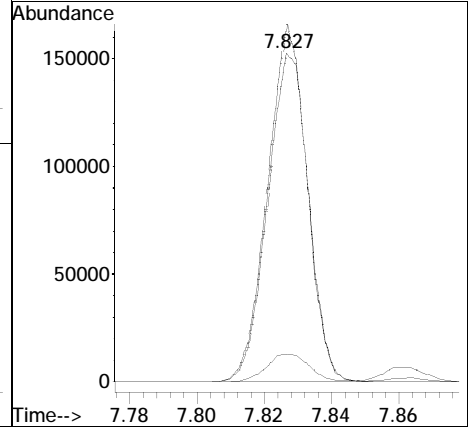
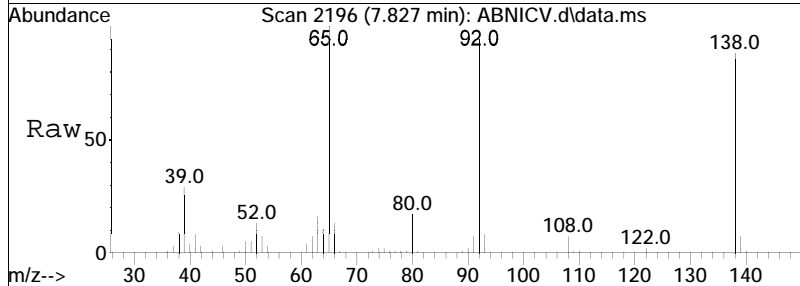
Tgt Ion: 168 Resp: 45841
 Ion Ratio Lower Upper
 168 100
 75 115.5 105.0 157.6

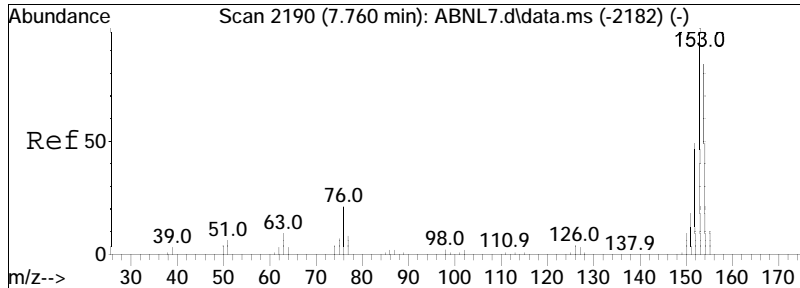




#64
 3-Nitroaniline
 Concen: 47.36 ug/ml
 RT: 7.827 min Scan# 2196
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

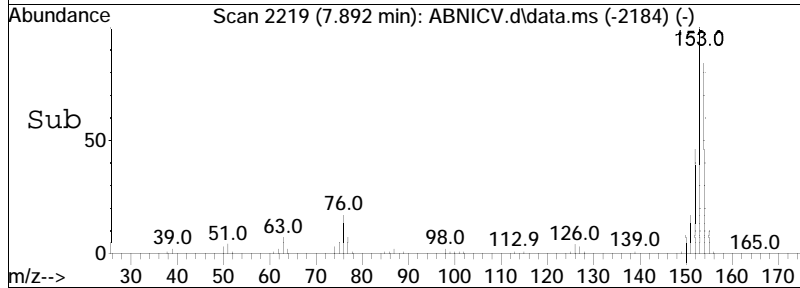
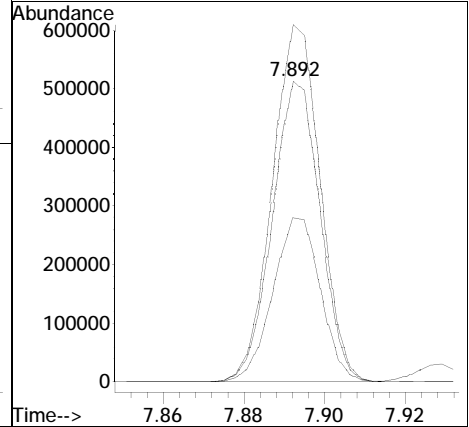
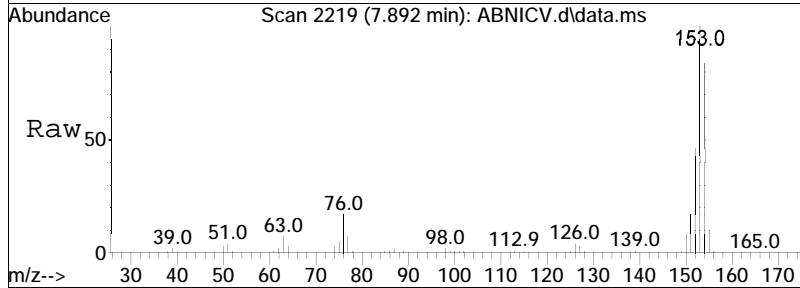
Tgt Ion	Resp	Lower	Upper
138	127463		
Ion Ratio			
138	100		
92	104.7	95.4	143.2
108	9.0	8.6	12.8

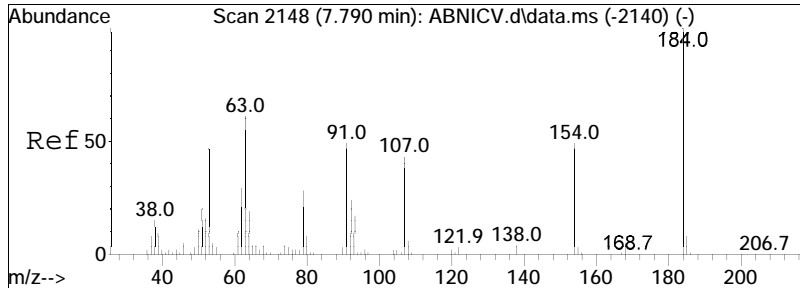




#65
 Acenaphthene
 Concen: 47.31 ug/ml
 RT: 7.892 min Scan# 2219
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

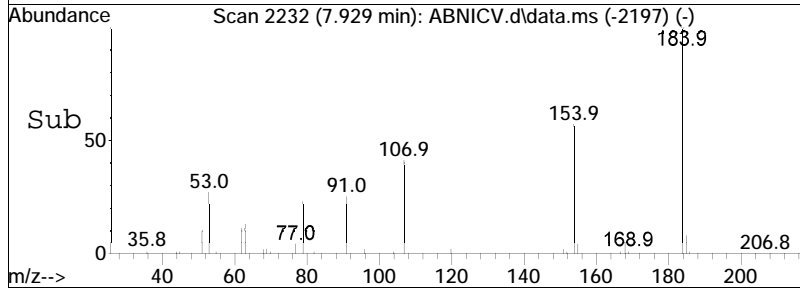
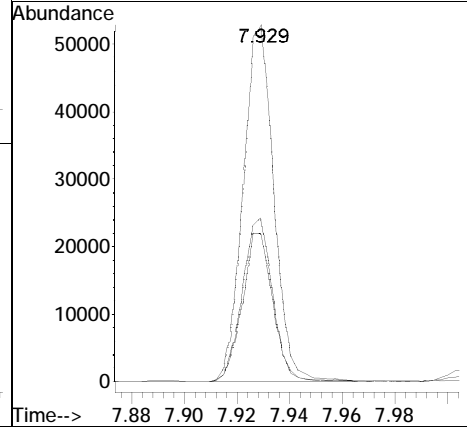
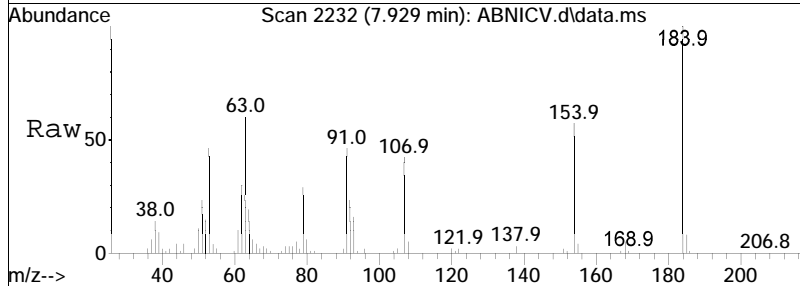
Tgt Ion	Resp	Lower	Upper
154	419646		
153	119.3	91.3	136.9
152	54.8	41.0	61.4

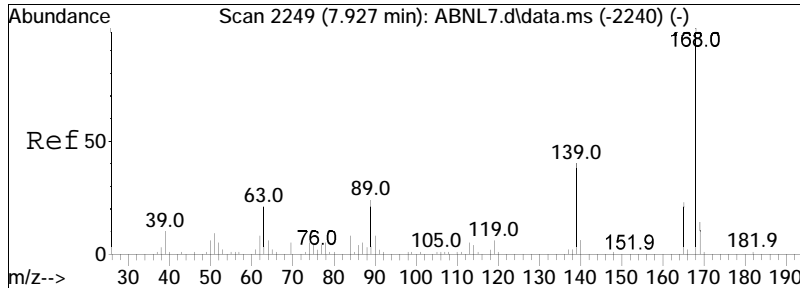




#66
 2,4-Dinitrophenol
 Concen: 36.98 ug/ml
 RT: 7.929 min Scan# 2232
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

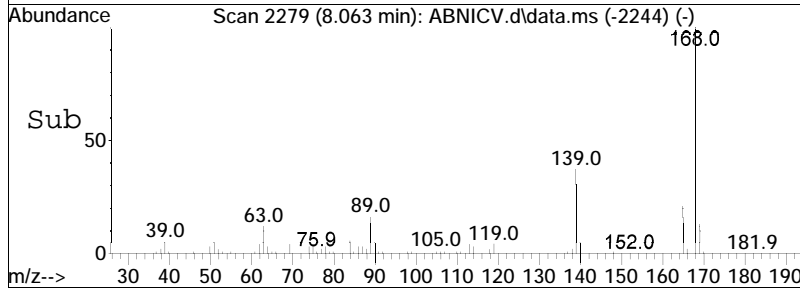
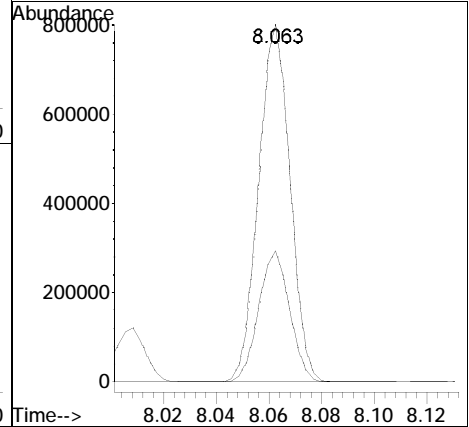
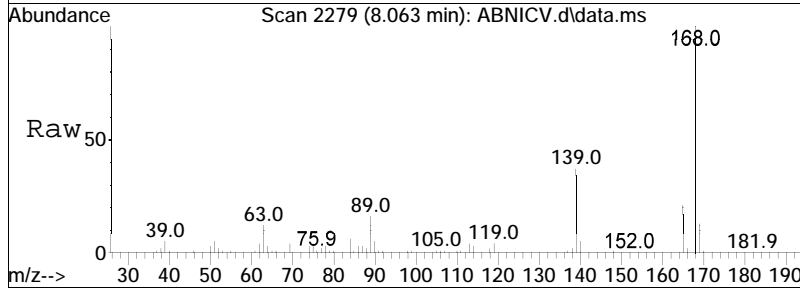
Tgt Ion	Ratio	Lower	Upper
184	100		
107	41.6	41.8	62.6#
91	45.7	46.1	69.1#

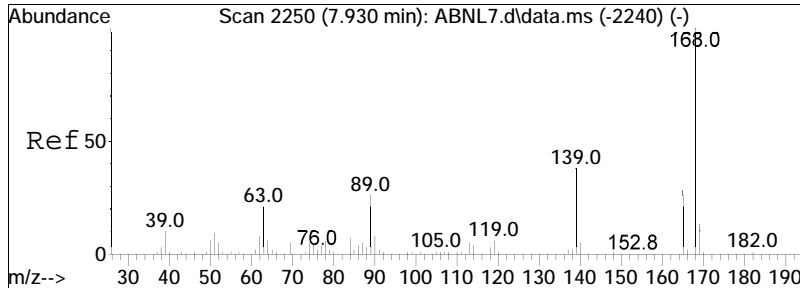




#67
 Dibenzofuran
 Concen: 47.85 ug/ml
 RT: 8.063 min Scan# 2279
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

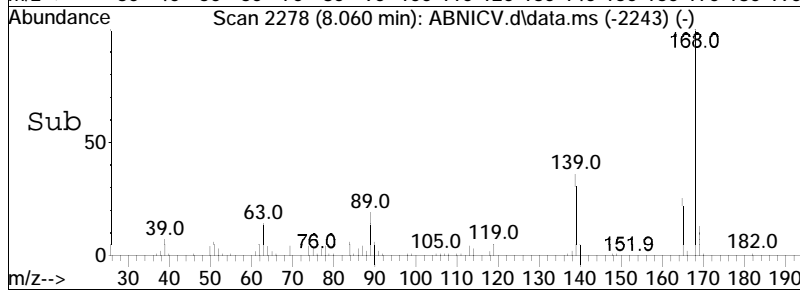
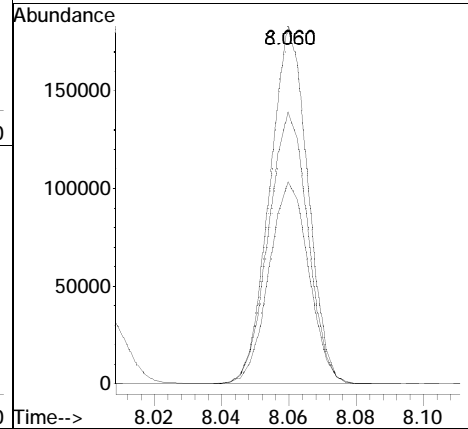
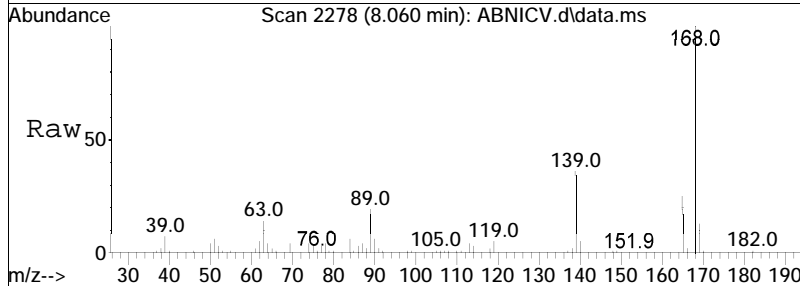
Tgt Ion	Resp	Lower	Upper
168	100		
139	36.3	33.2	49.8

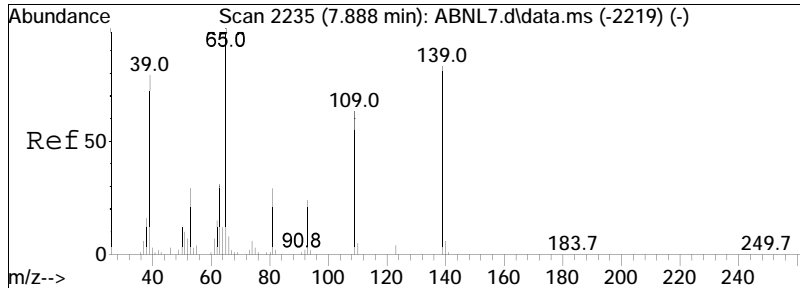




#68
 2,4-Dinitrotoluene
 Concen: 48.65 ug/ml
 RT: 8.060 min Scan# 2278
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

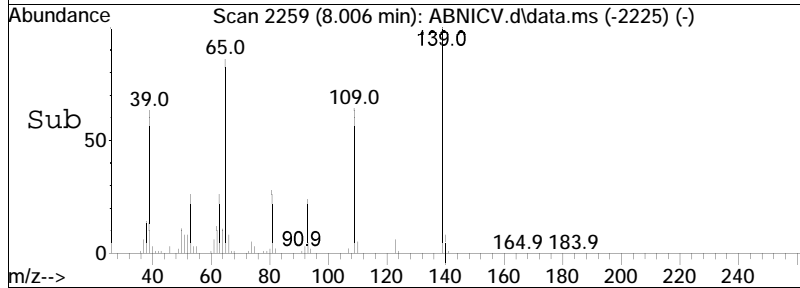
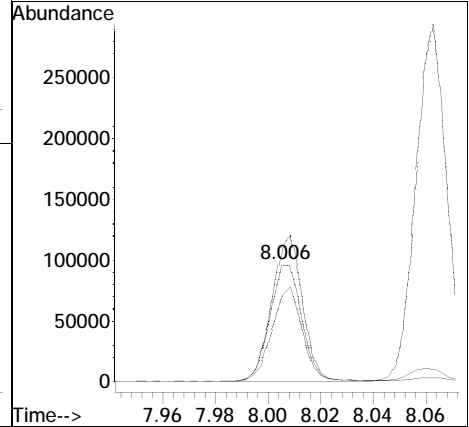
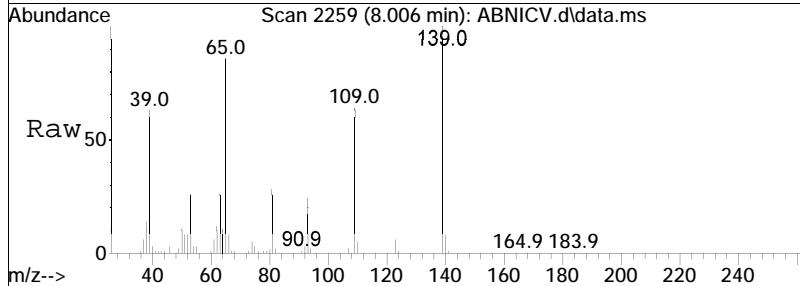
Tgt Ion	Ratio	Lower	Upper
165	100		
89	78.7	75.7	113.5
63	59.5	62.6	94.0#

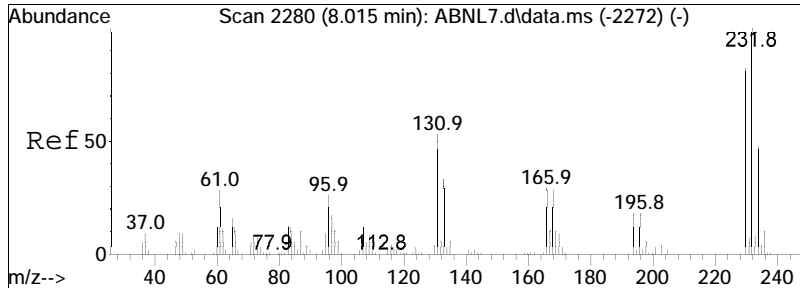




#69
 4-Nitrophenol
 Concen: 46.57 ug/ml
 RT: 8.006 min Scan# 2259
 Delta R.T. -0.003 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

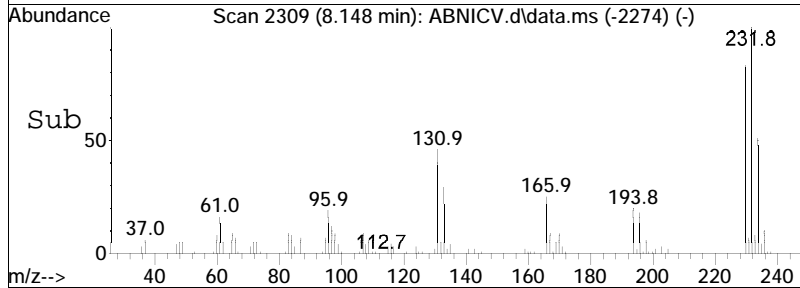
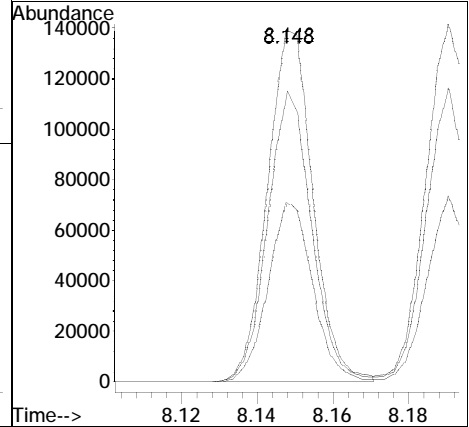
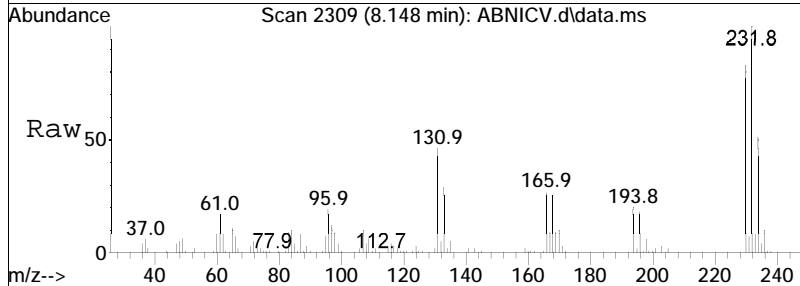
Tgt Ion:	65	Resp:	81503
Ion Ratio	Lower	Upper	
65	100		
109	76.7	55.4	83.2
139	119.9	72.9	109.3#

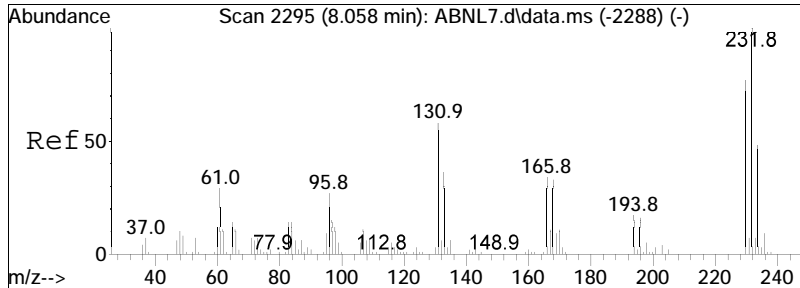




#70
 2,3,5,6-Tetrachlorophenol
 Concen: 48.50 ug/ml
 RT: 8.148 min Scan# 2309
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

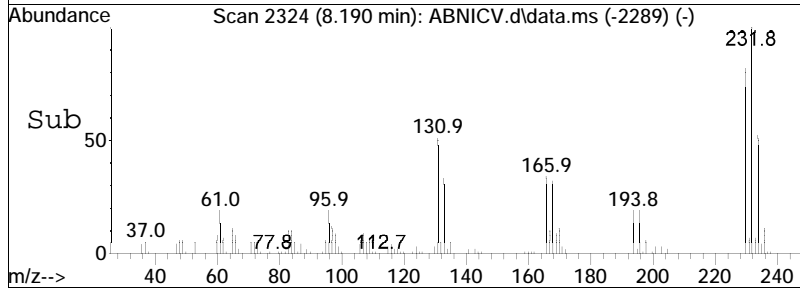
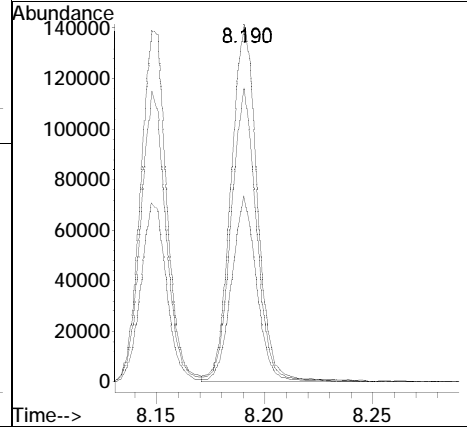
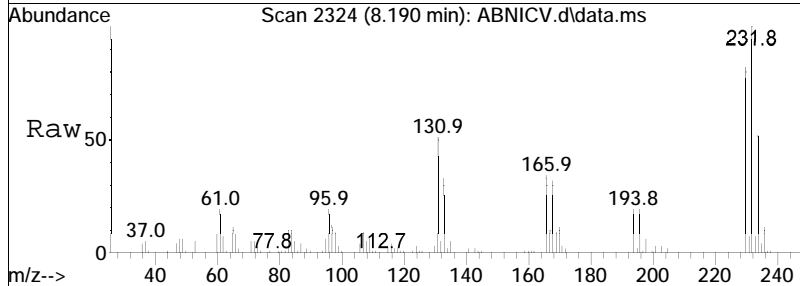
Tgt Ion	232	230	234	Resp:	116142	Lower	Upper
Ion Ratio	100	79.9	50.3				
		65.0	37.8				
		97.6	56.8				

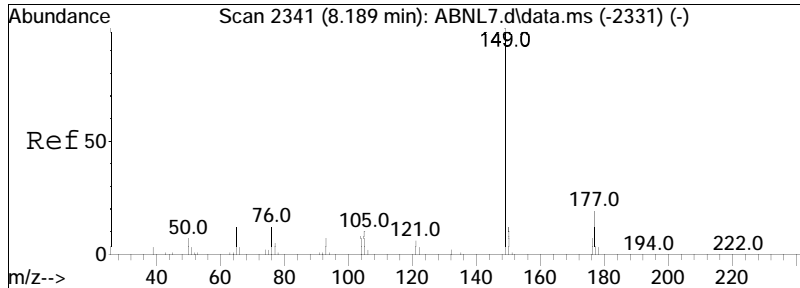




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 48.80 ug/ml
 RT: 8.190 min Scan# 2324
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

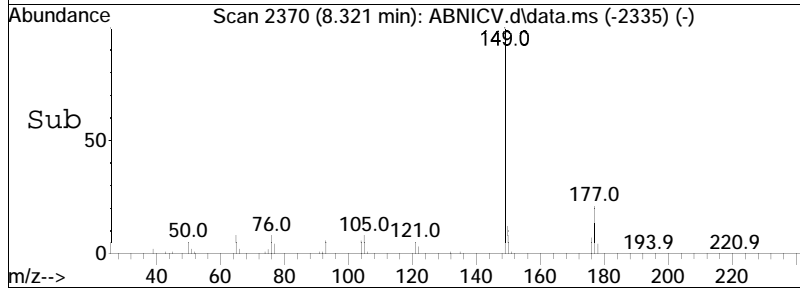
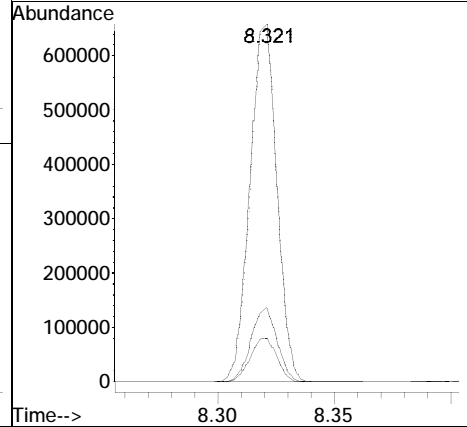
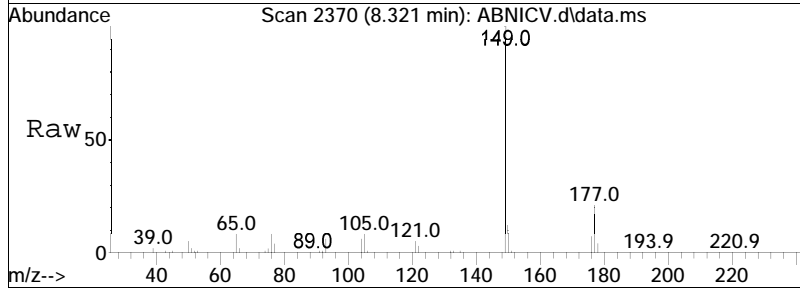
Tgt Ion	Resp	Lower	Upper
232	100		
230	77.1	63.7	95.5
234	49.4	38.4	57.6

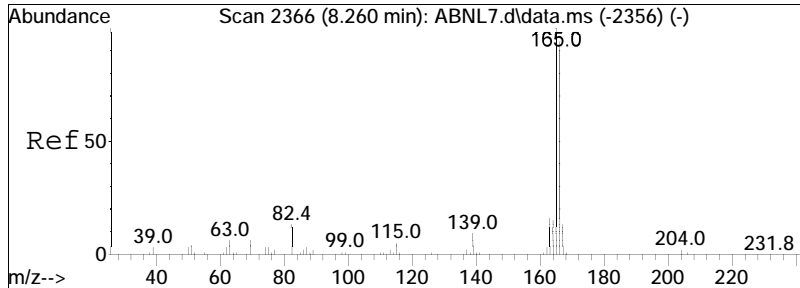




#72
 Diethyl phthalate
 Concen: 48.82 ug/ml
 RT: 8.321 min Scan# 2370
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

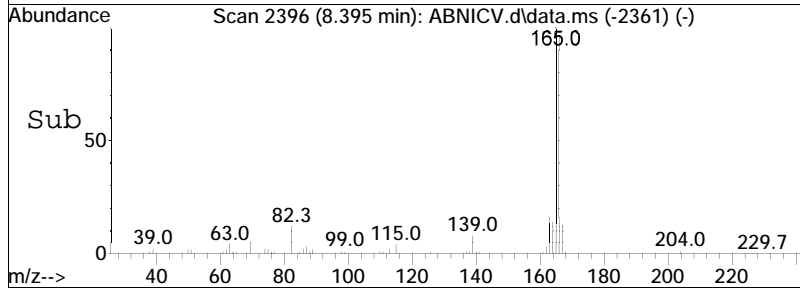
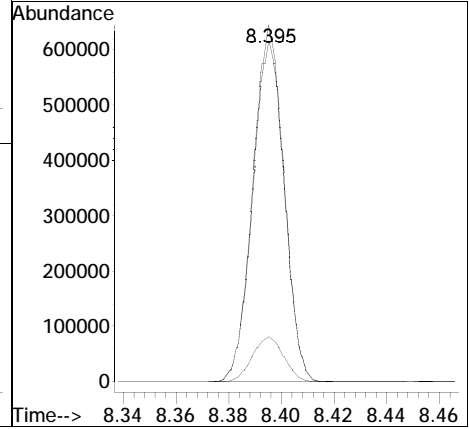
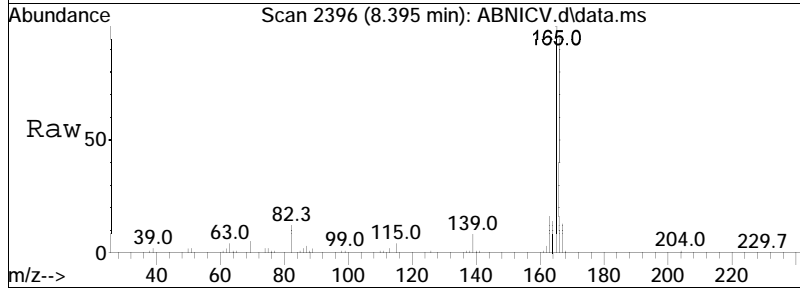
Tgt Ion	Ratio	Lower	Upper
149	100		
177	20.3	15.5	23.3
150	12.3	9.5	14.3

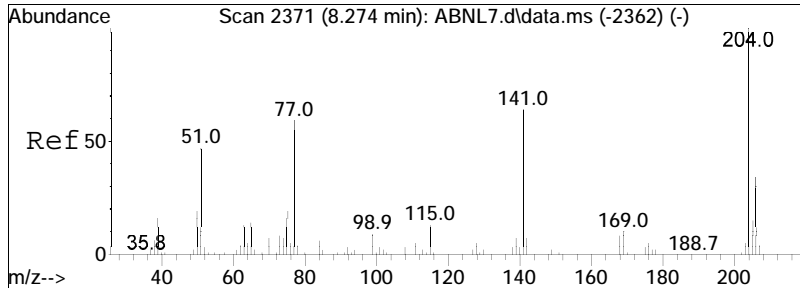




#73
 Fluorene
 Concen: 47.92 ug/ml
 RT: 8.395 min Scan# 2396
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

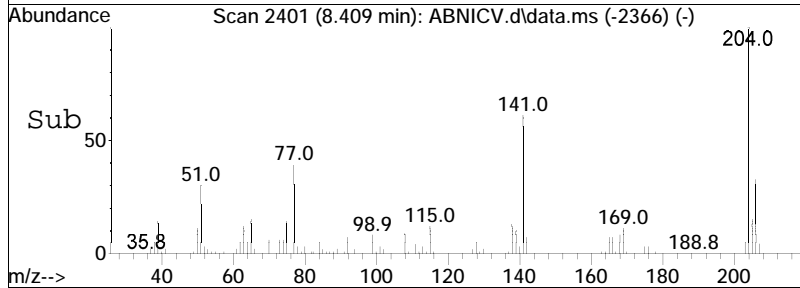
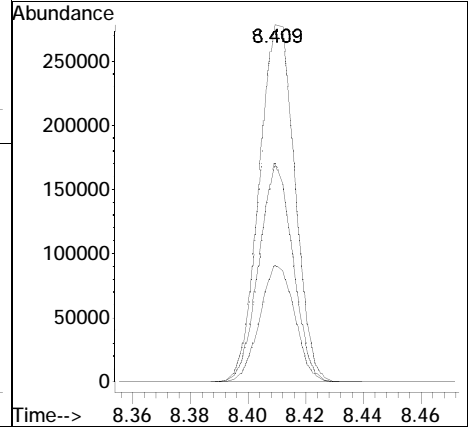
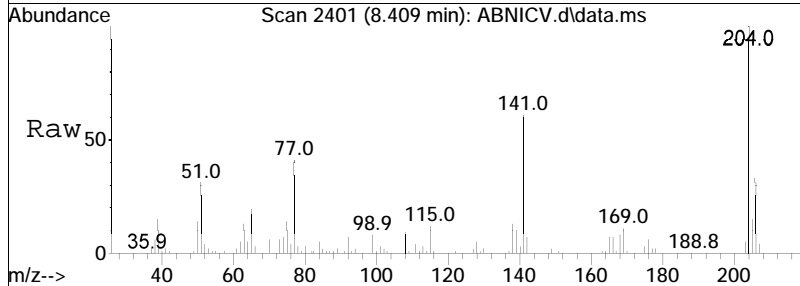
Tgt Ion	Resp	Lower	Upper
166	100		
165	103.6	79.3	118.9
167	13.5	10.6	16.0

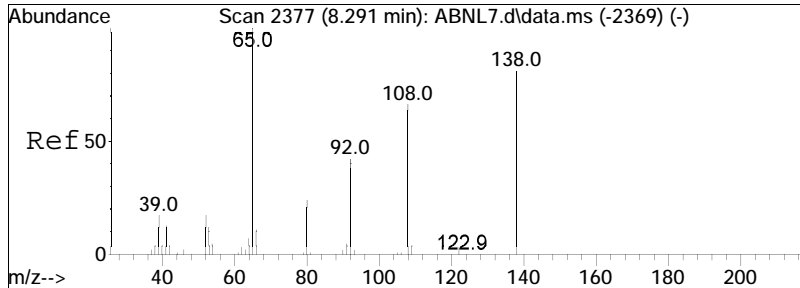




#74
 4-Chlorophenyl phenyl ether
 Concen: 47.19 ug/ml
 RT: 8.409 min Scan# 2401
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

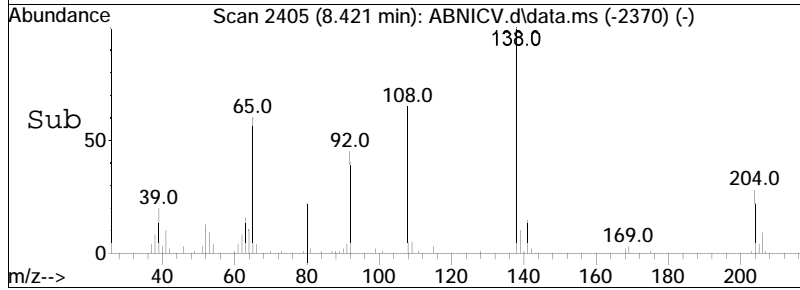
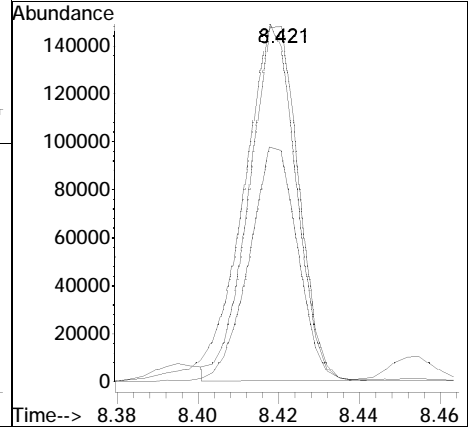
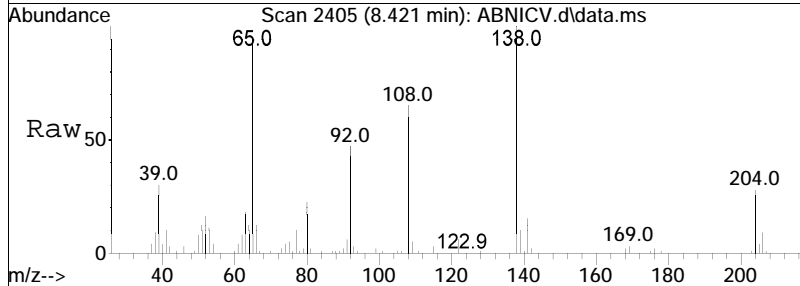
Tgt Ion	Ratio	Lower	Upper
204	100		
206	32.0	26.2	39.4
141	58.2	57.2	85.8

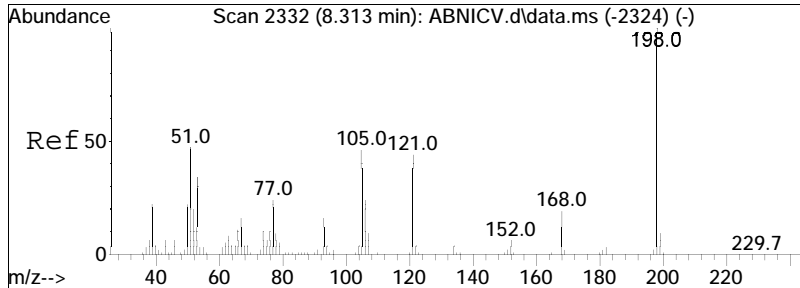




#75
 4-Nitroaniline
 Concen: 45.84 ug/ml
 RT: 8.421 min Scan# 2405
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

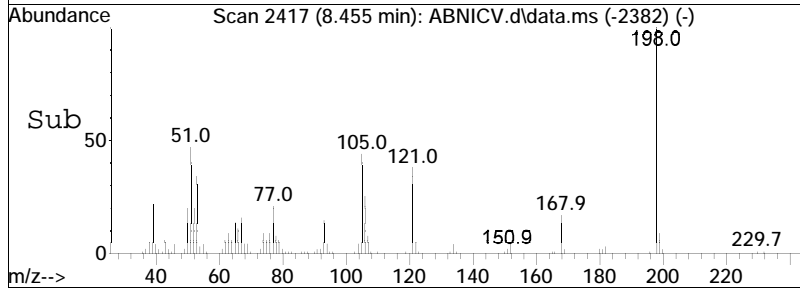
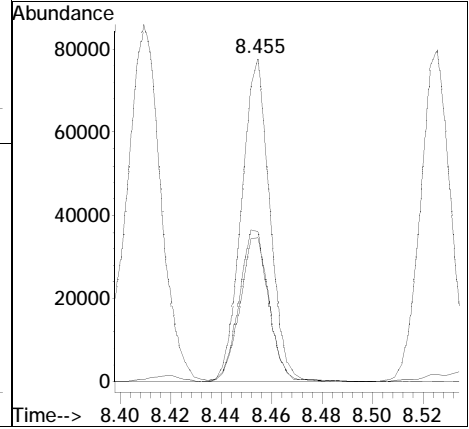
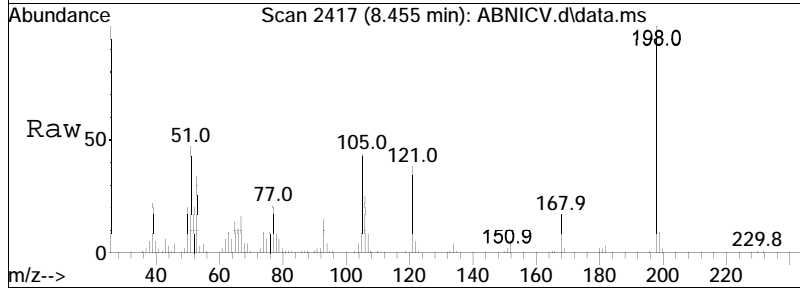
Tgt Ion	Resp	Lower	Upper
138	125118		
108	65.6	62.7	94.1
65	109.1	107.8	161.6

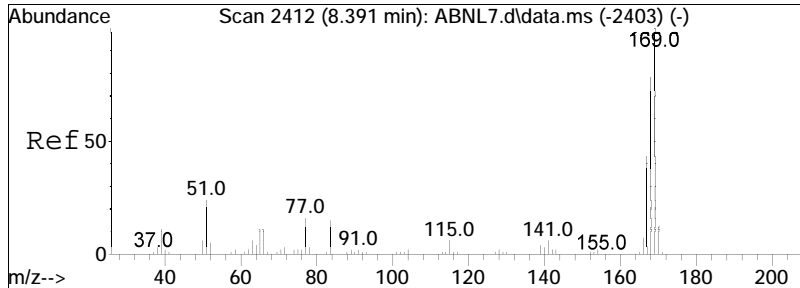




#76
 4,6-Dinitro-o-cresol
 Concen: 40.63 ug/ml
 RT: 8.455 min Scan# 2417
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

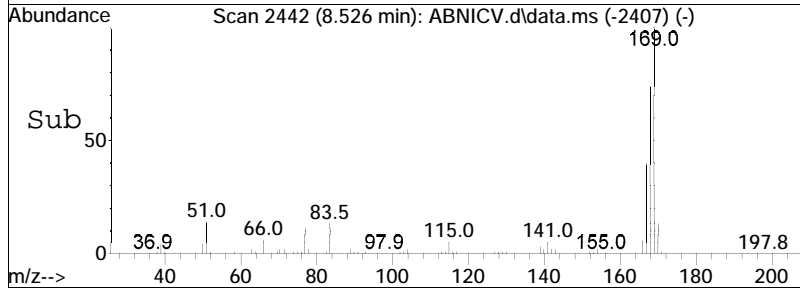
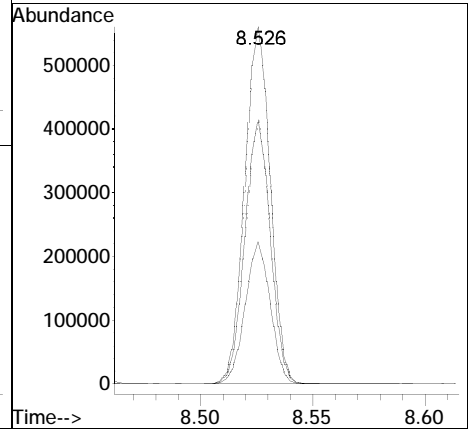
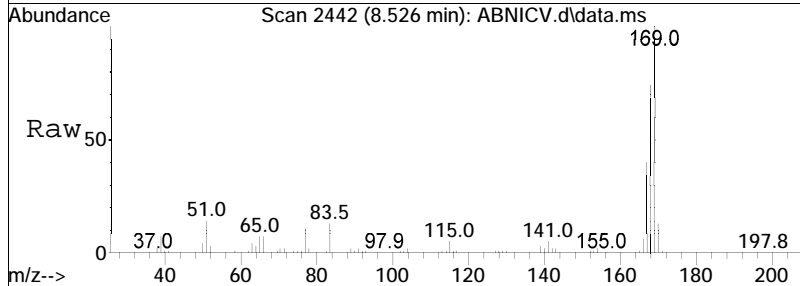
Tgt Ion	Resp	Lower	Upper
198	100		
51	48.1	59.0	88.4#
105	46.5	45.0	67.6

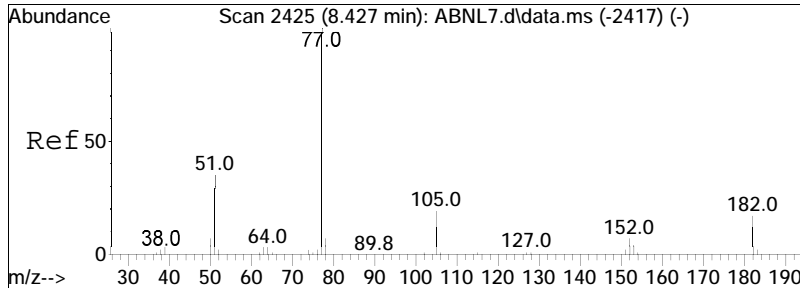




#77
 NDPA/DPA
 Concen: 48.59 ug/ml
 RT: 8.526 min Scan# 2442
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

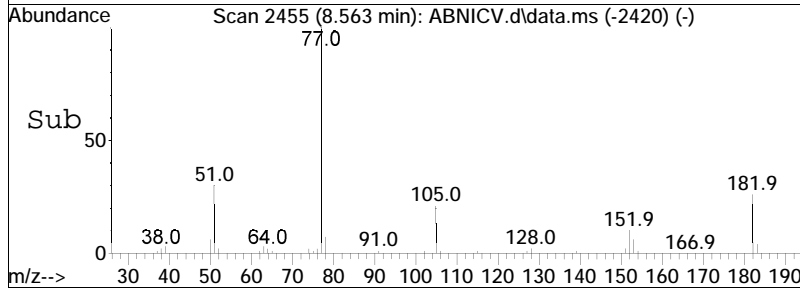
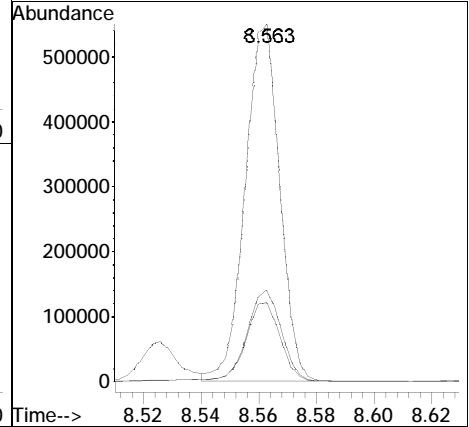
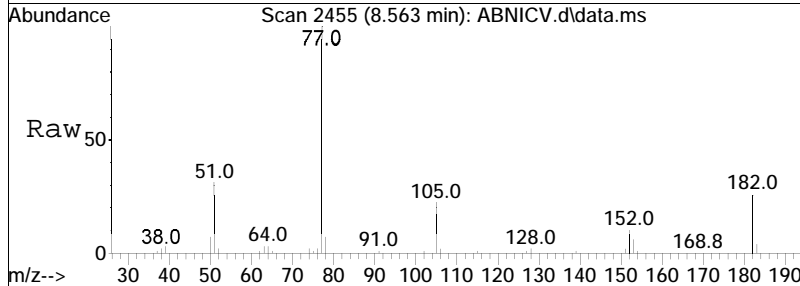
Tgt Ion	Resp	Lower	Upper
169	100		
168	73.4	55.4	83.0
167	39.2	30.3	45.5

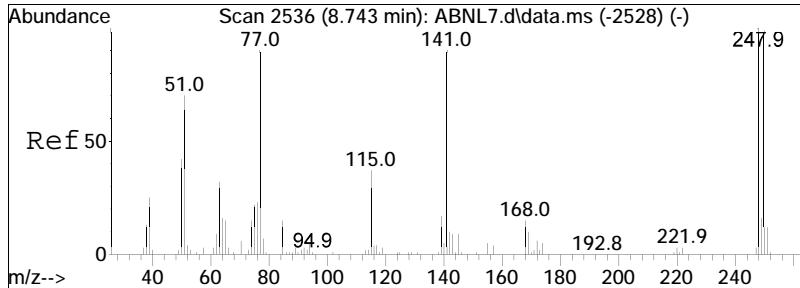




#78
 Azobenzene
 Concen: 49.58 ug/ml
 RT: 8.563 min Scan# 2455
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

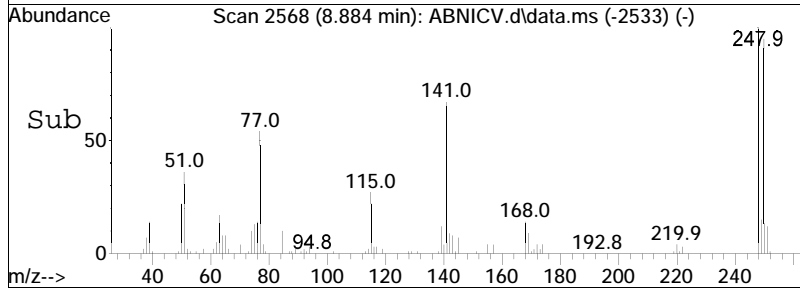
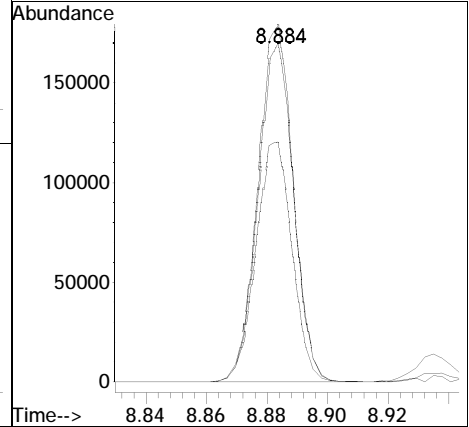
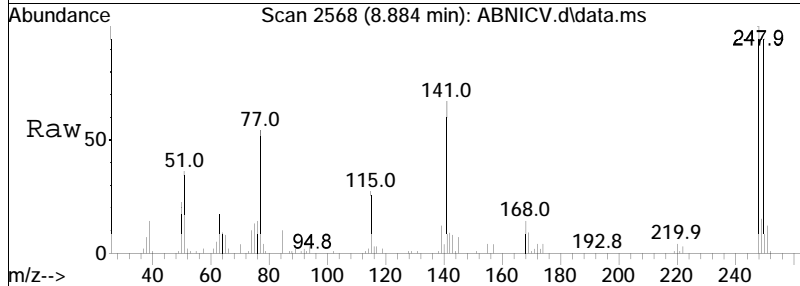
Tgt Ion:	Resp:	Lower	Upper
77	453318		
182	26.0	16.0	24.0#
105	22.9	15.6	23.4

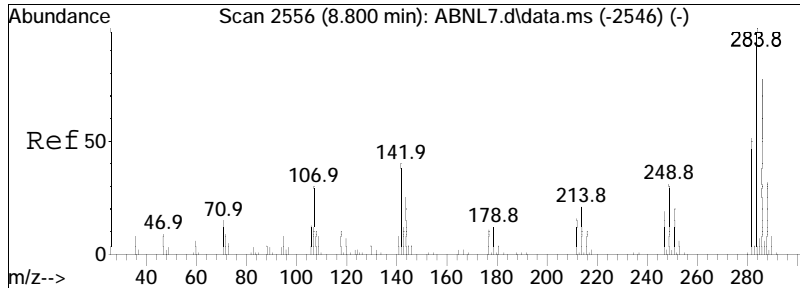




#80
 4-Bromophenyl phenyl ether
 Concen: 48.20 ug/ml
 RT: 8.884 min Scan# 2568
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

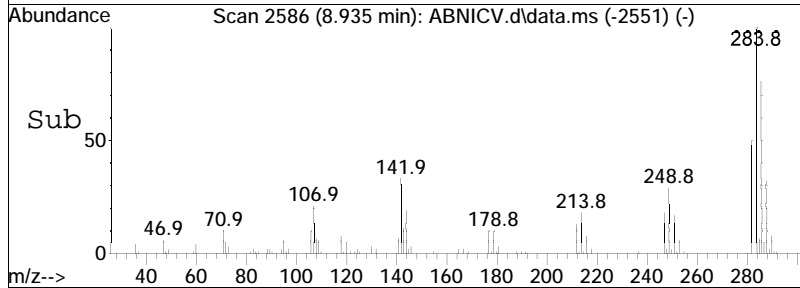
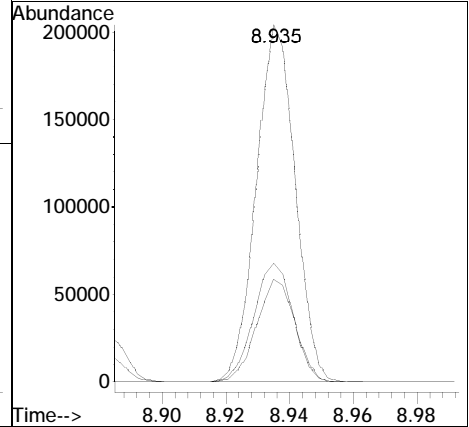
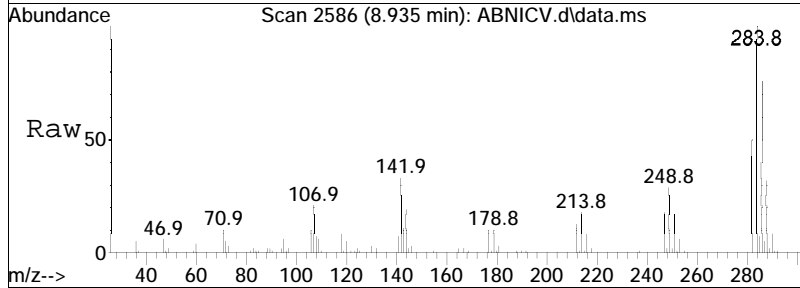
Tgt Ion	Ratio	Lower	Upper
248	100		
141	68.4	76.8	115.2#
250	94.7	79.7	119.5

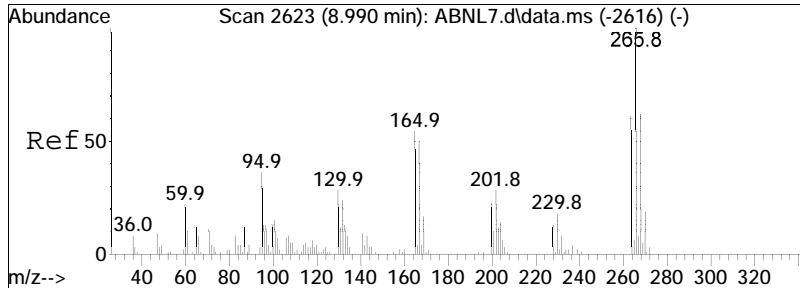




#81
 Hexachlorobenzene
 Concen: 47.04 ug/ml
 RT: 8.935 min Scan# 2586
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

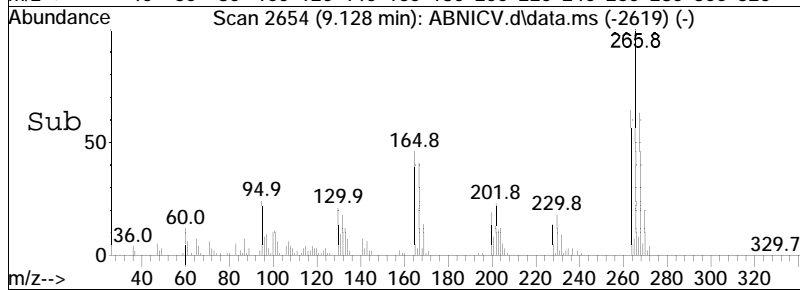
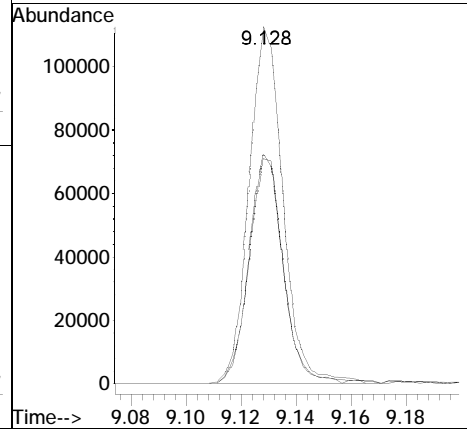
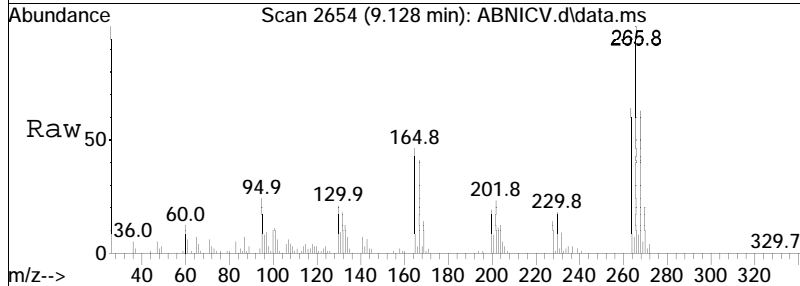
Tgt Ion	Resp	Lower	Upper
284	100		
142	33.8	35.8	53.6#
249	28.6	24.7	37.1

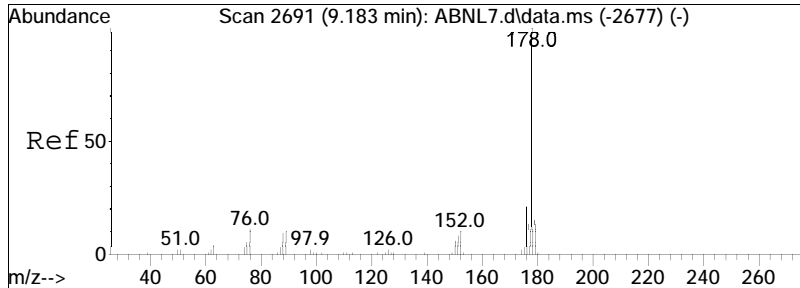




#82
 Pentachlorophenol
 Concen: 42.69 ug/ml
 RT: 9.128 min Scan# 2654
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

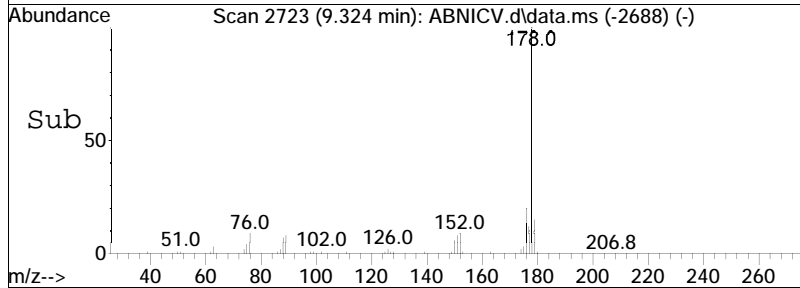
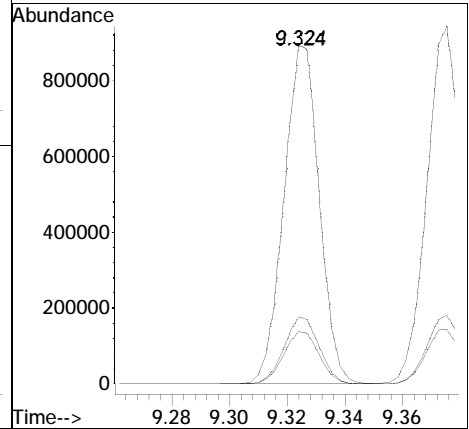
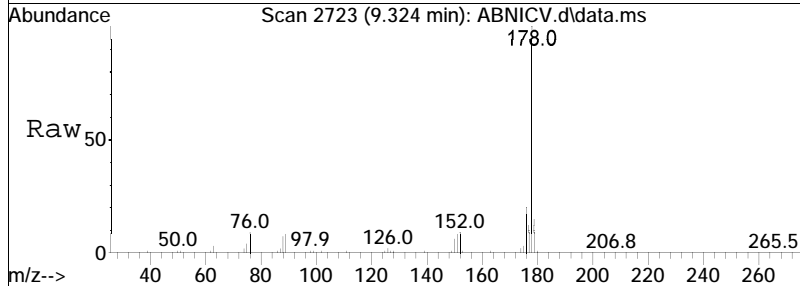
Tgt Ion	Ratio	Lower	Upper
266	100		
264	64.2	51.8	77.6
268	64.5	49.8	74.8

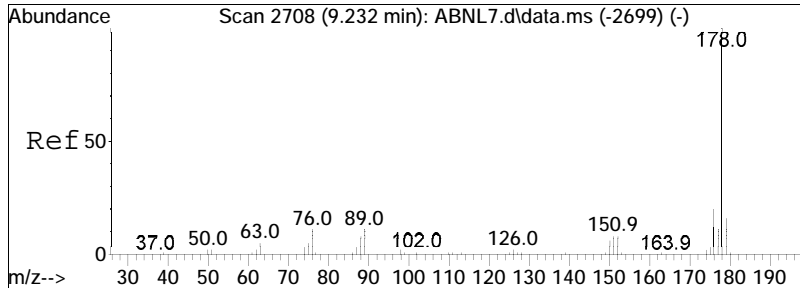




#89
 Phenanthrene
 Concen: 47.37 ug/ml
 RT: 9.324 min Scan# 2723
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

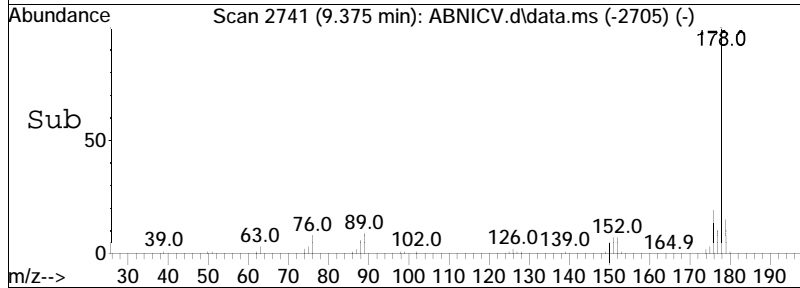
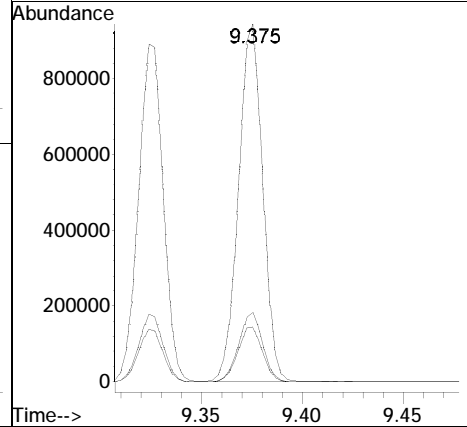
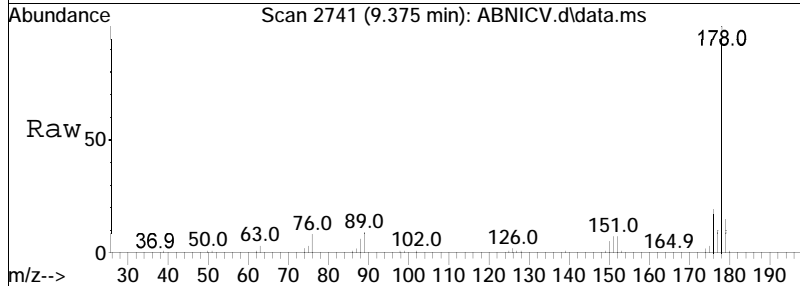
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.2	18.2
176	19.6	15.4	23.2

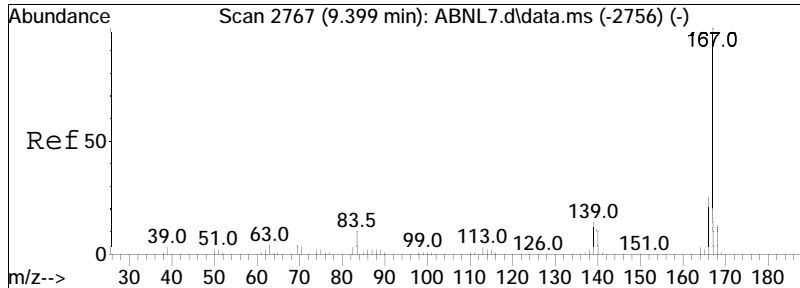




#90
 Anthracene
 Concen: 49.72 ug/ml
 RT: 9.375 min Scan# 2741
 Delta R.T. 0.003 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

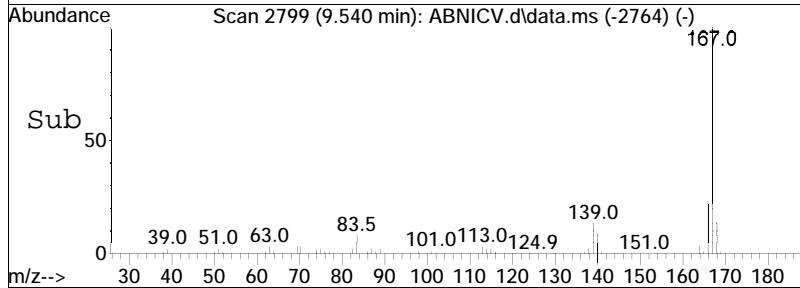
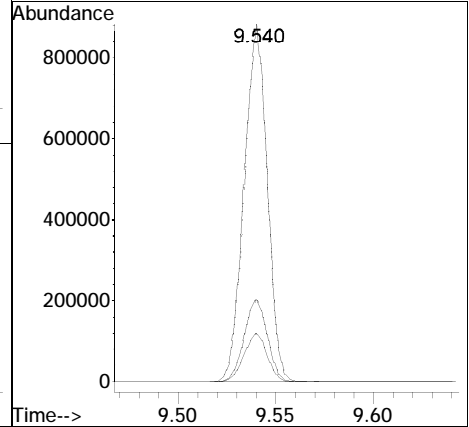
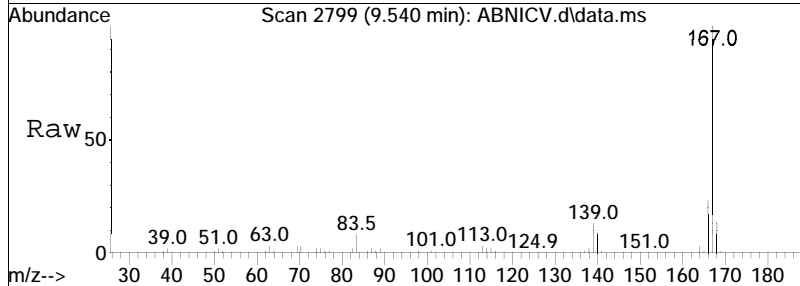
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.1	18.1
176	19.1	14.8	22.2

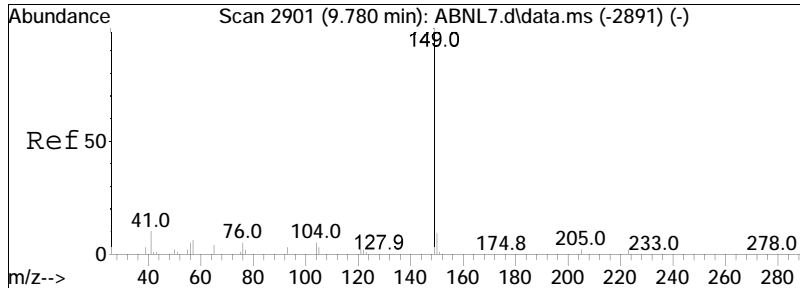




#91
 Carbazole
 Concen: 48.57 ug/ml
 RT: 9.540 min Scan# 2799
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

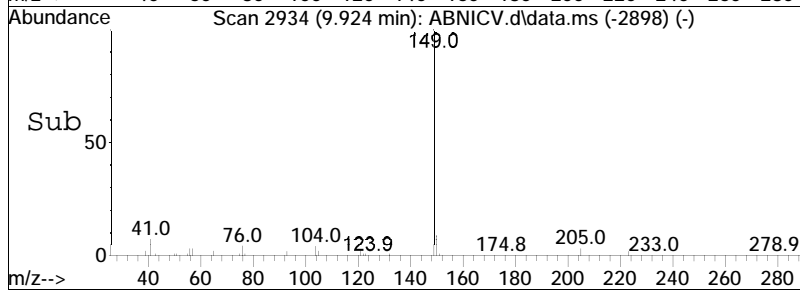
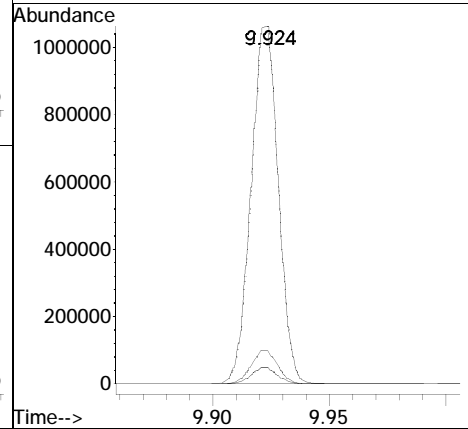
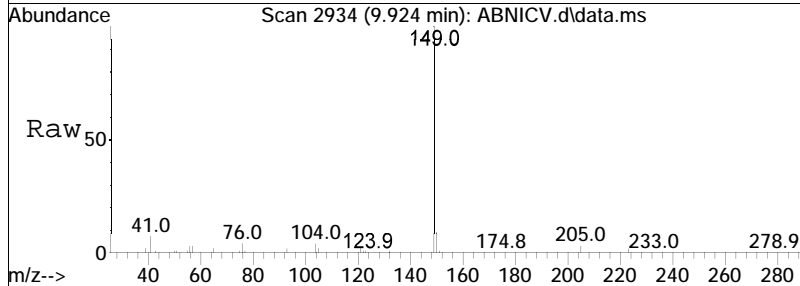
Tgt Ion	Resp	Lower	Upper
167	100		
168	13.7	10.6	15.8
166	23.3	17.7	26.5

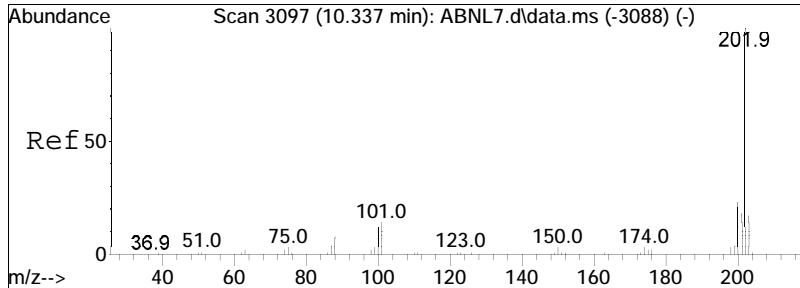




#92
 Di-n-butylphthalate
 Concen: 53.60 ug/ml
 RT: 9.924 min Scan# 2934
 Delta R.T. 0.003 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

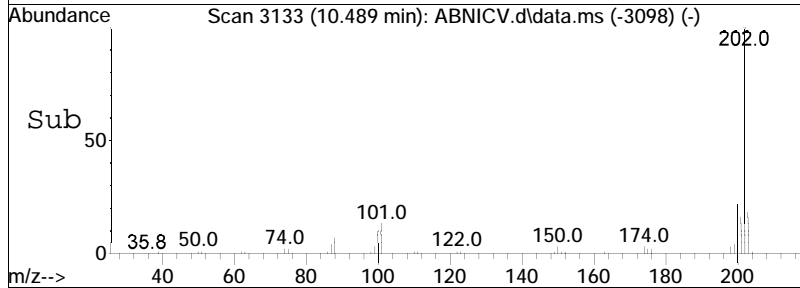
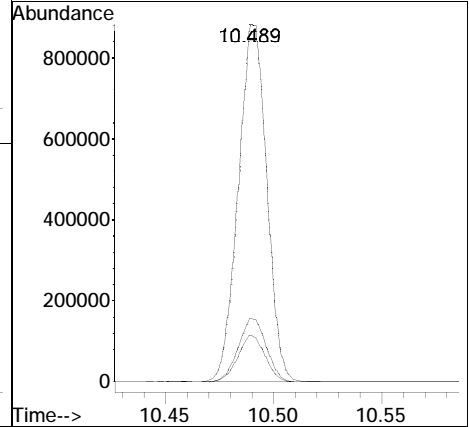
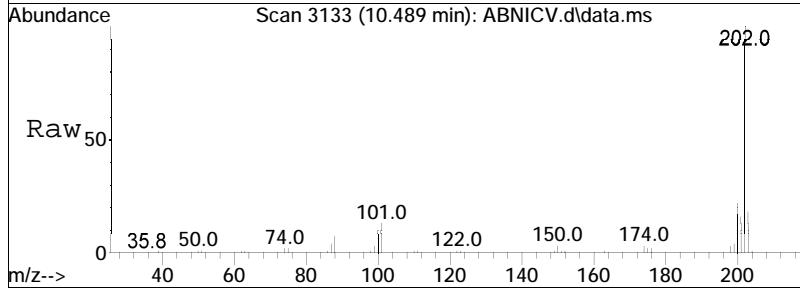
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	4.5	4.2	6.2

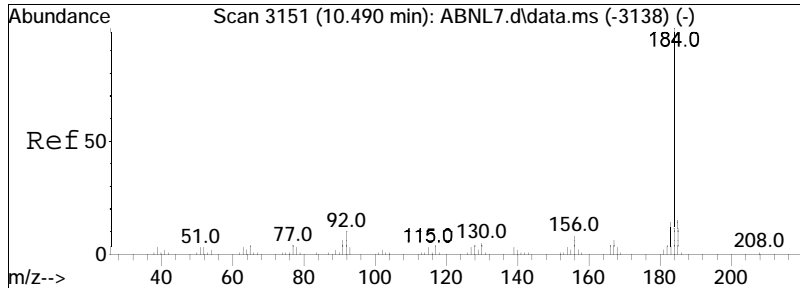




#93
 Fluoranthene
 Concen: 47.48 ug/ml
 RT: 10.489 min Scan# 3133
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

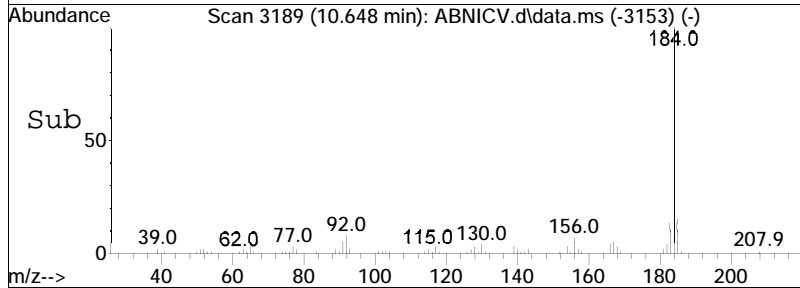
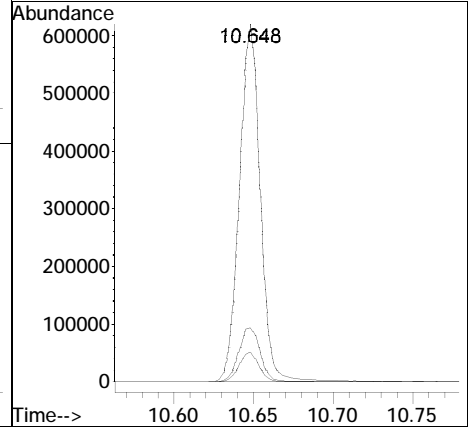
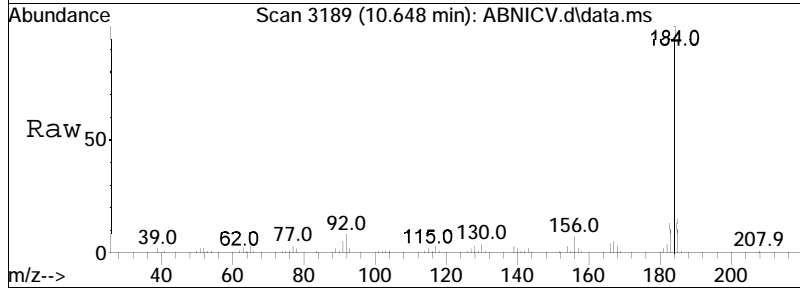
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.5	11.4	17.0
203	17.6	13.9	20.9

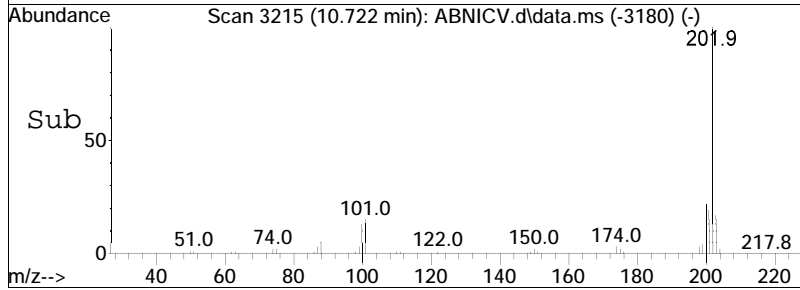
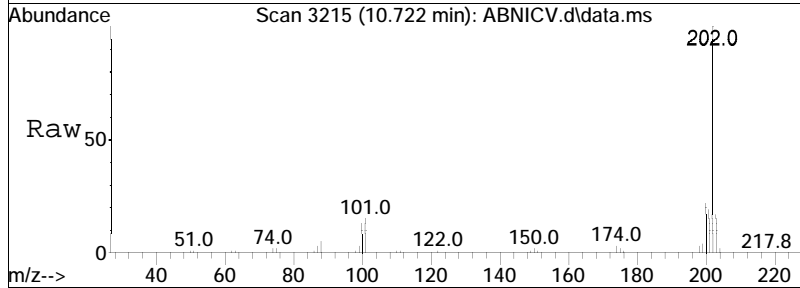
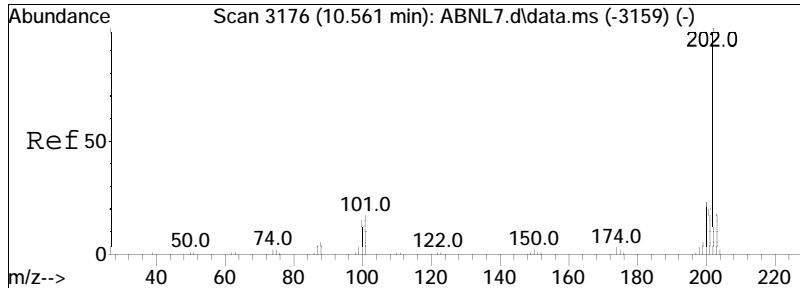




#94
 Benzidine
 Concen: 52.43 ug/ml
 RT: 10.648 min Scan# 3189
 Delta R.T. 0.003 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

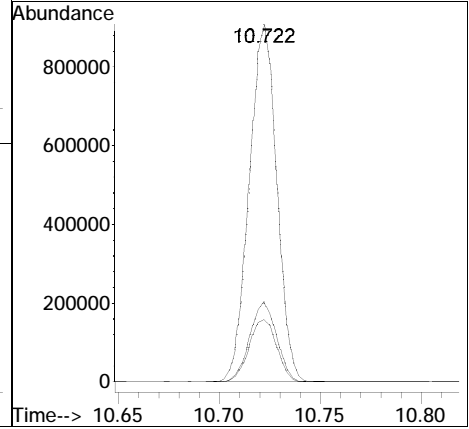
Tgt Ion	Ratio	Lower	Upper
184	100		
92	8.1	7.6	11.4
185	15.8	11.5	17.3

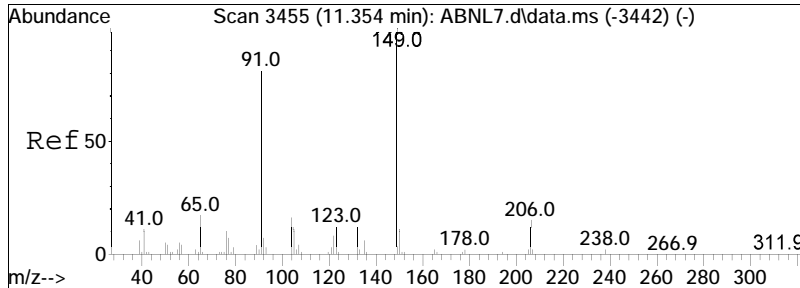




#95
 Pyrene
 Concen: 47.39 ug/ml
 RT: 10.722 min Scan# 3215
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

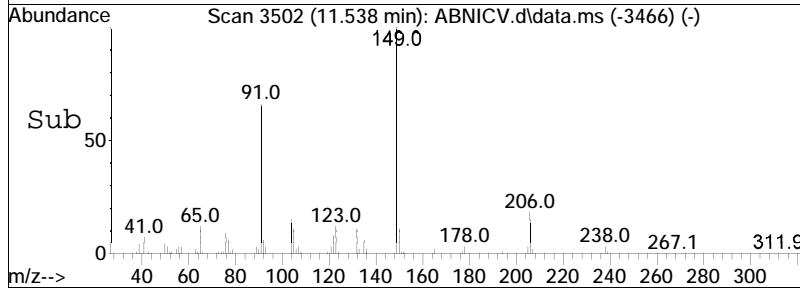
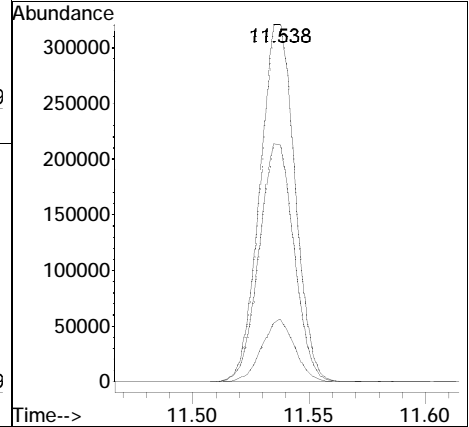
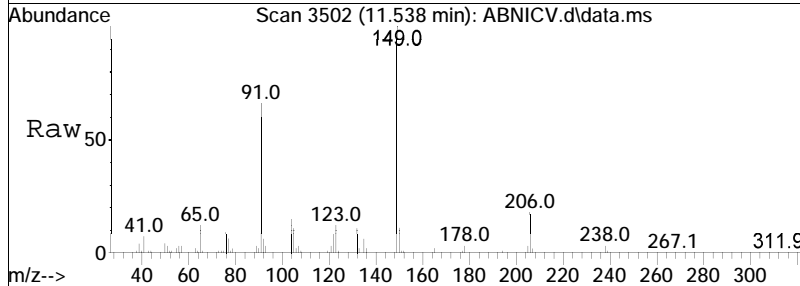
Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.0	17.0	25.4
203	17.7	14.2	21.2

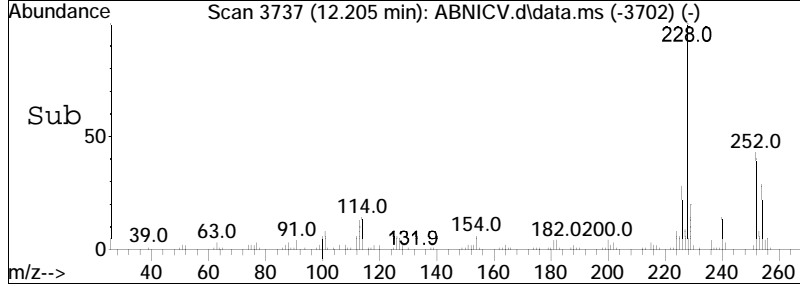
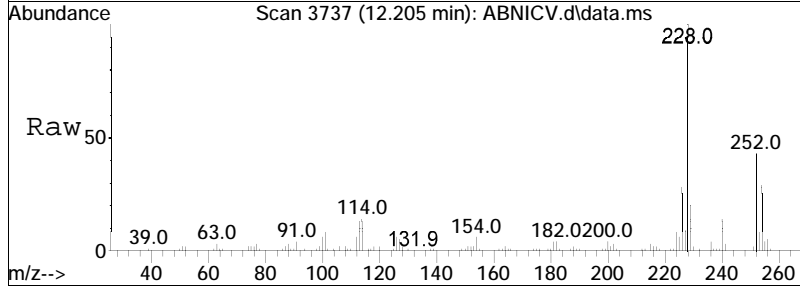
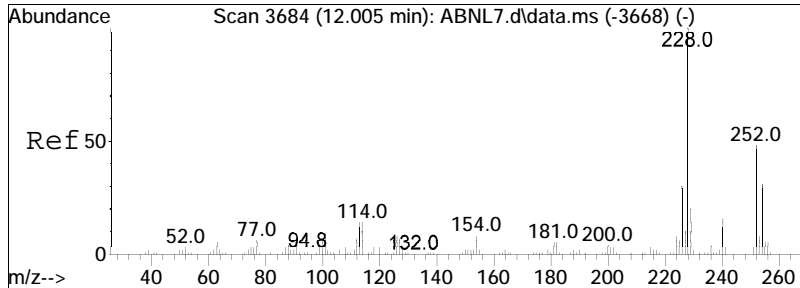




#97
 Butyl benzyl phthalate
 Concen: 42.20 ug/ml
 RT: 11.538 min Scan# 3502
 Delta R.T. 0.003 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

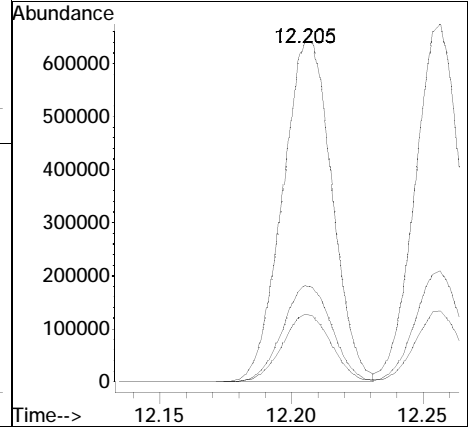
Tgt Ion	Ratio	Lower	Upper
149	100		
91	66.7	61.2	91.8
206	16.6	12.5	18.7

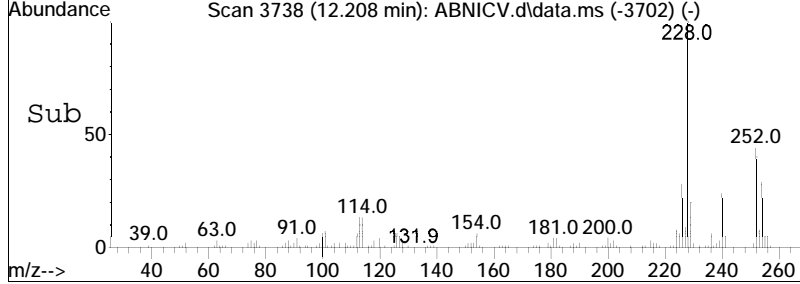
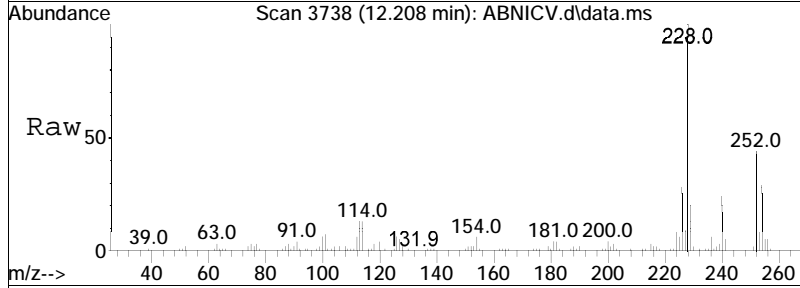
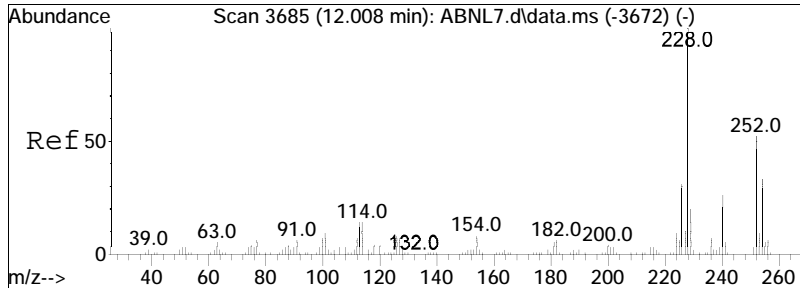




#105
 Benzo(a)anthracene
 Concen: 48.24 ug/ml
 RT: 12.205 min Scan# 3737
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

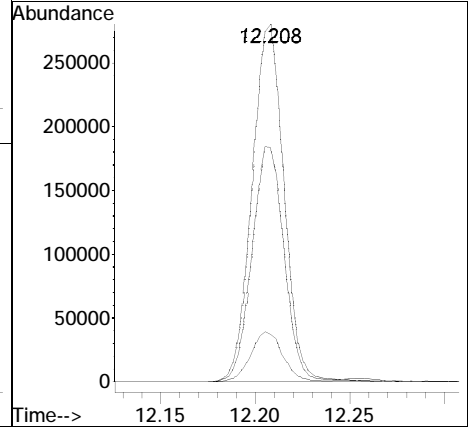
Tgt Ion	Resp	Lower	Upper
228	100		
226	28.1	22.2	33.2
229	19.6	15.6	23.4

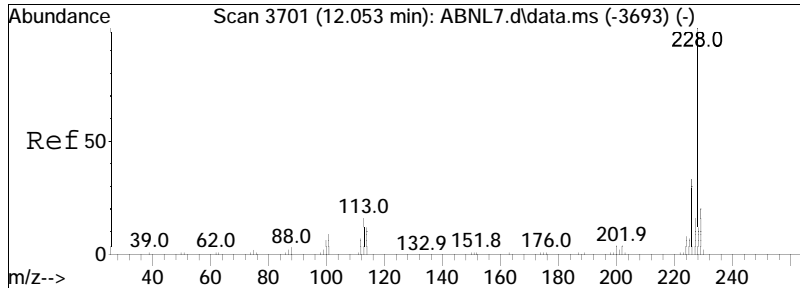




#106
 3,3'-Dichlorobenzidine
 Concen: 51.22 ug/ml
 RT: 12.208 min Scan# 3738
 Delta R.T. 0.003 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

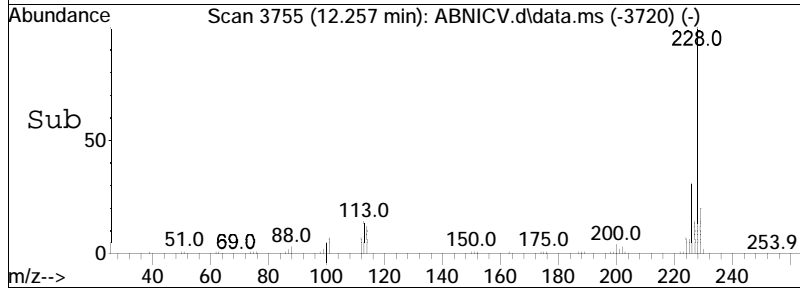
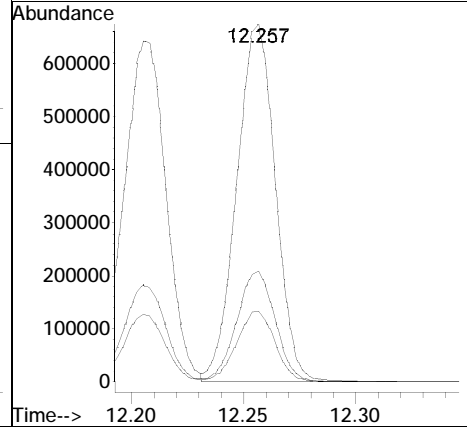
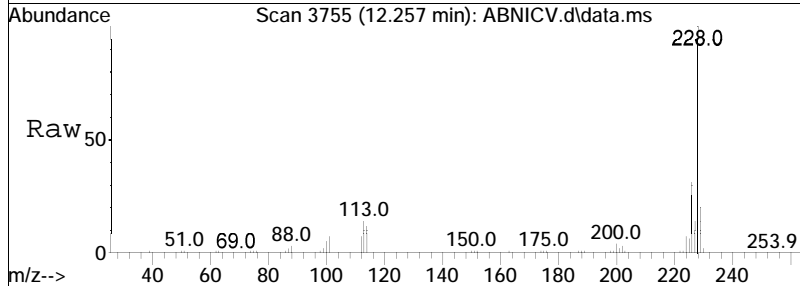
Tgt Ion	Ratio	Lower	Upper
252	100		
126	14.2	13.8	20.6
254	66.4	53.0	79.6

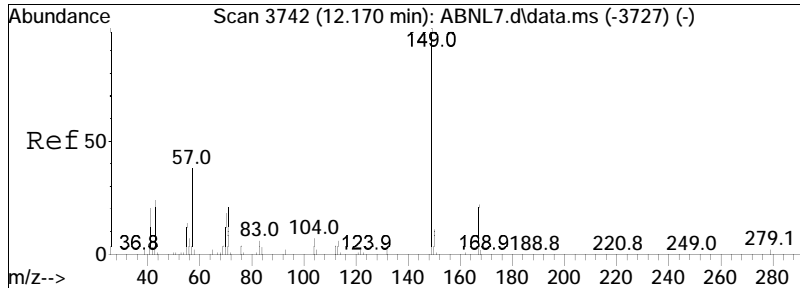




#107
 Chrysene
 Concen: 46.26 ug/ml
 RT: 12.257 min Scan# 3755
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

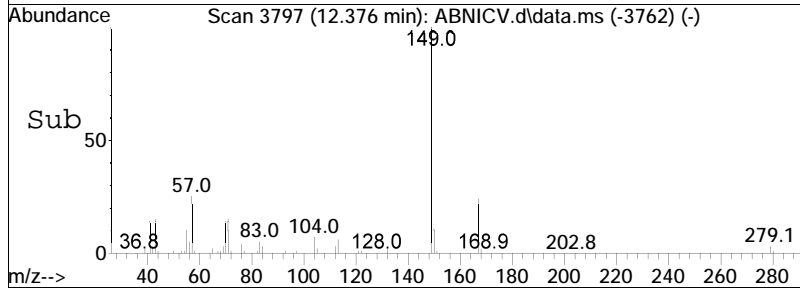
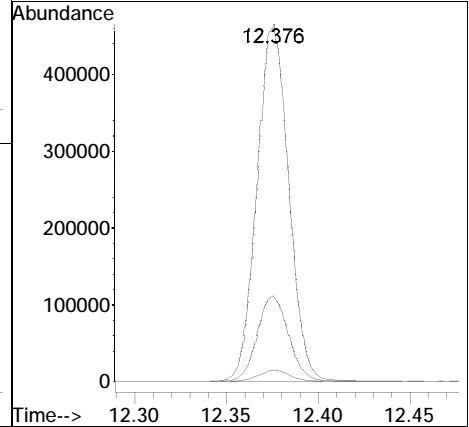
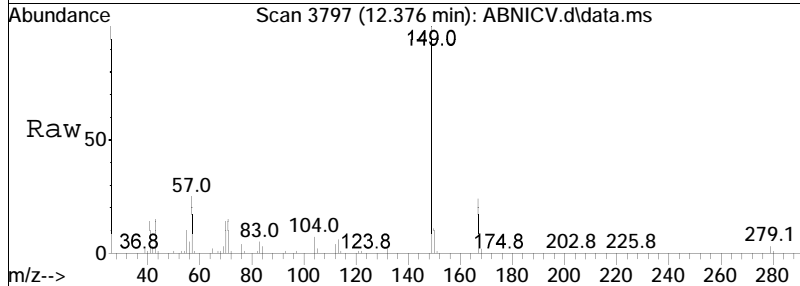
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	19.7	15.8	23.6

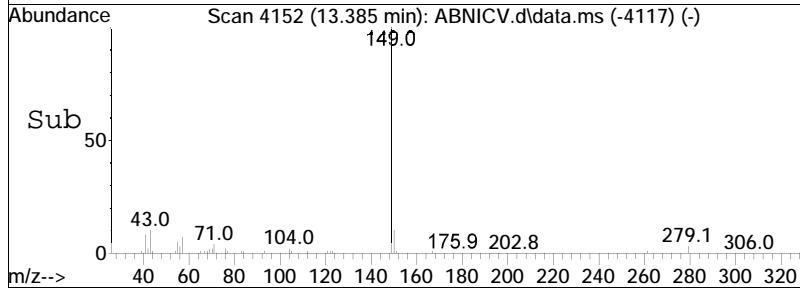
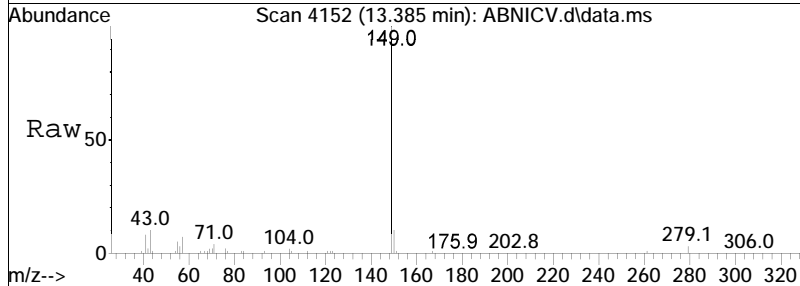
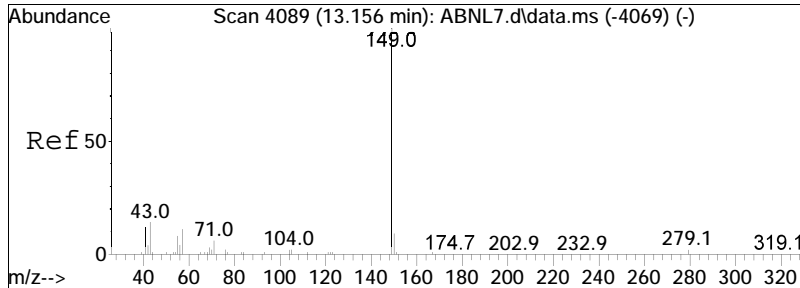




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 44.41 ug/ml
 RT: 12.376 min Scan# 3797
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

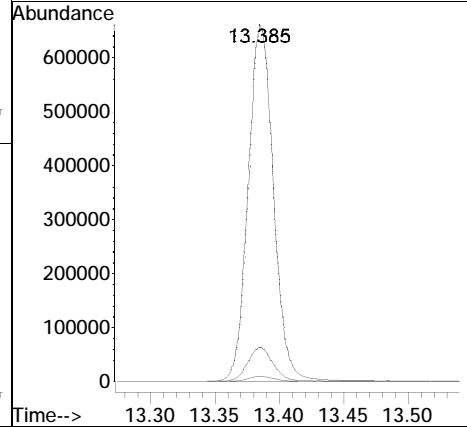
Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.9	19.4	29.0
279	3.0	2.3	3.5

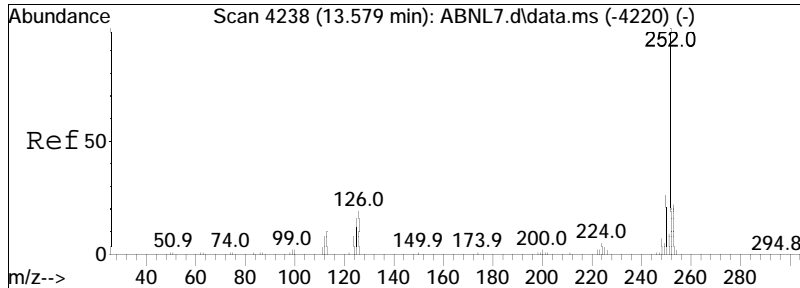




#109
 Di-n-octylphthalate
 Concen: 42.62 ug/ml
 RT: 13.385 min Scan# 4152
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

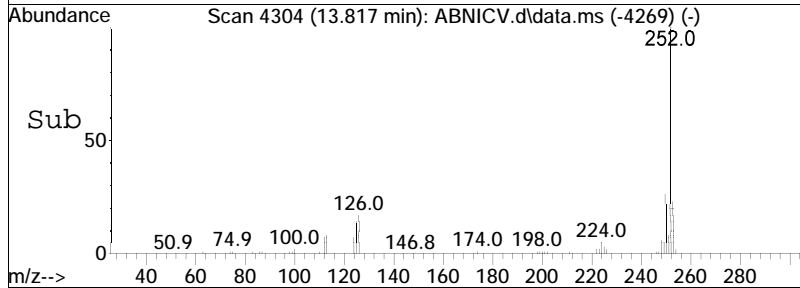
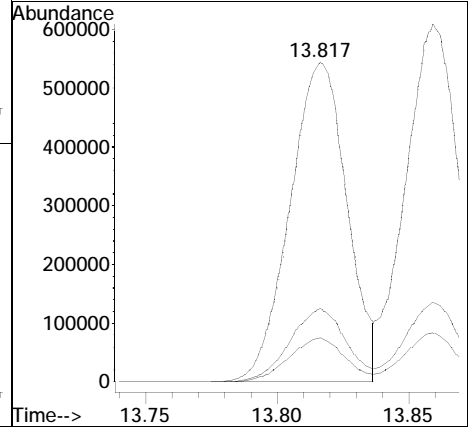
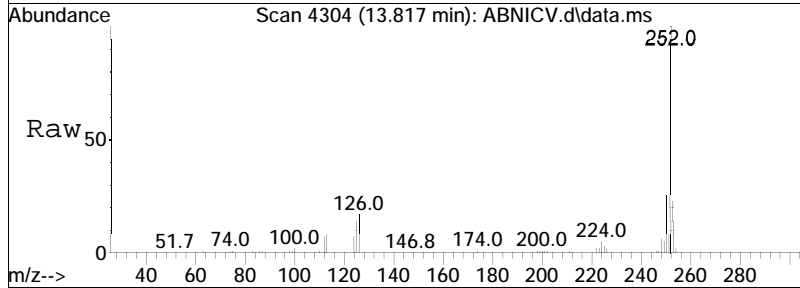
Tgt Ion	Ratio	Lower	Upper
149	100		
43	9.8	10.1	15.1#
167	1.3	1.1	1.7

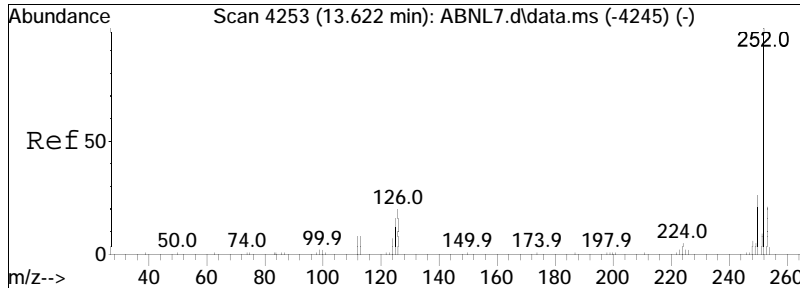




#110
 Benzo(b)fluoranthene
 Concen: 48.61 ug/ml
 RT: 13.817 min Scan# 4304
 Delta R.T. 0.001 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

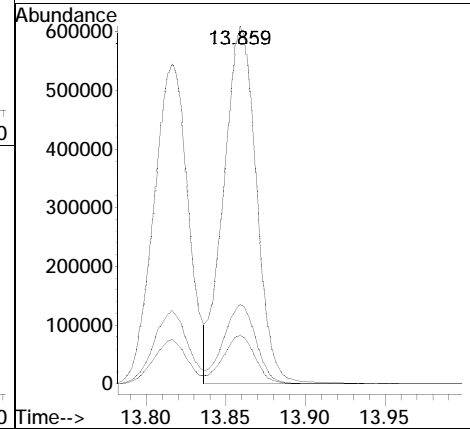
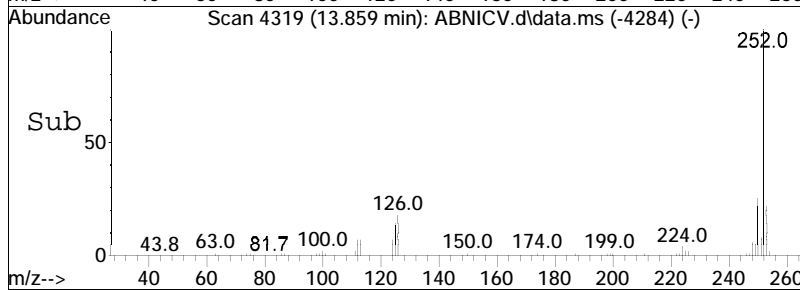
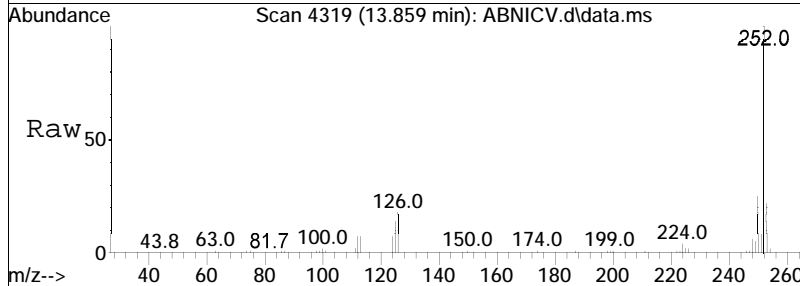
Tgt Ion	Ratio	Lower	Upper
252	100		
125	13.6	11.6	17.4
253	22.5	17.4	26.0

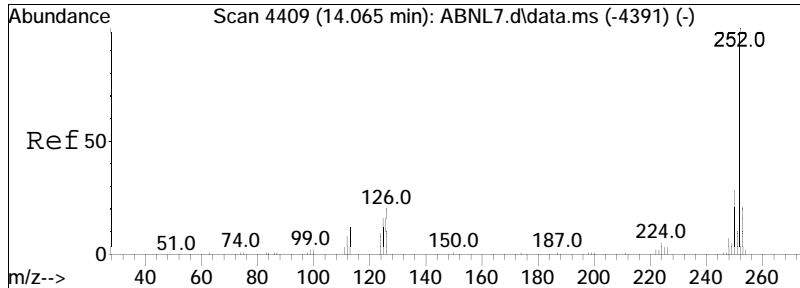




#111
 Benzo(k)fluoranthene
 Concen: 50.09 ug/ml
 RT: 13.859 min Scan# 4319
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

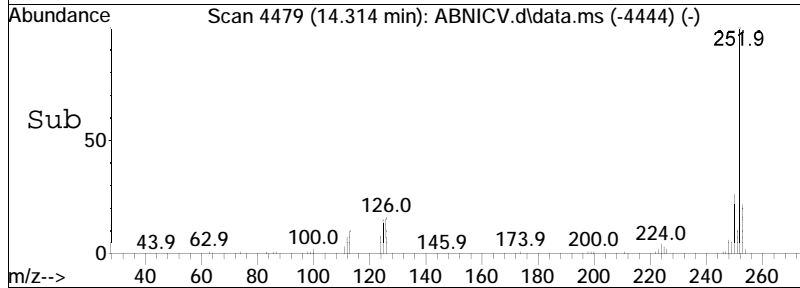
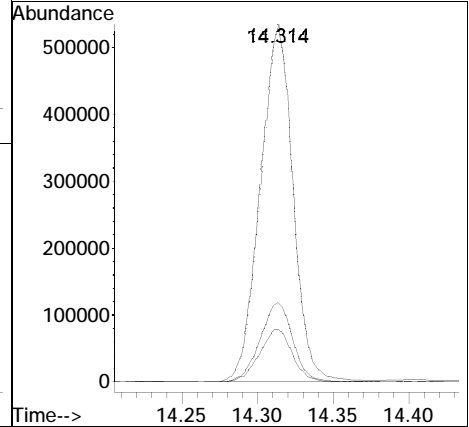
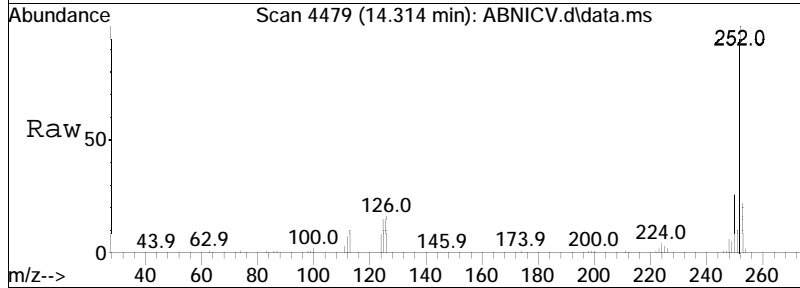
Tgt Ion	Resp	Lower	Upper
252	100		
125	13.3	11.4	17.0
253	22.2	17.2	25.8

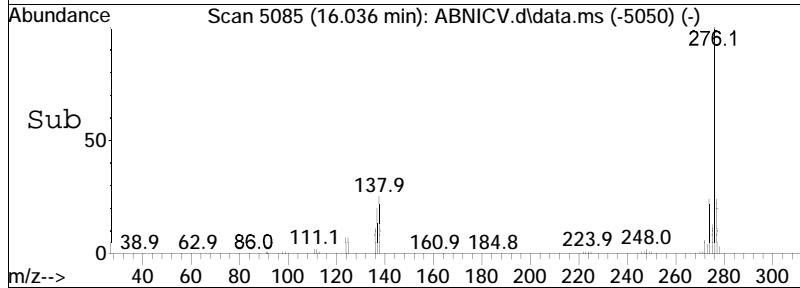
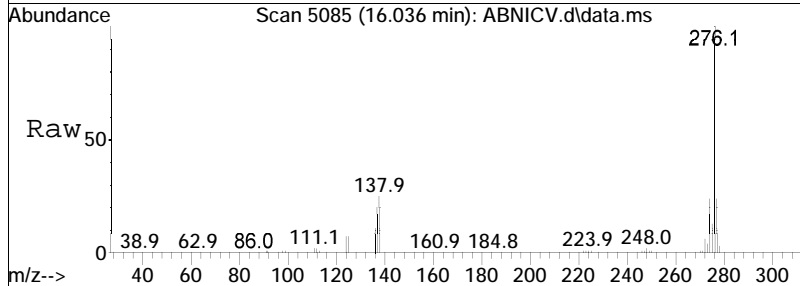
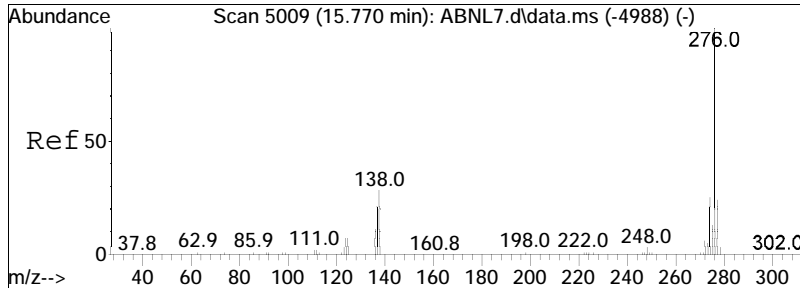




#112
 Benzo(a)pyrene
 Concen: 54.49 ug/ml
 RT: 14.314 min Scan# 4479
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

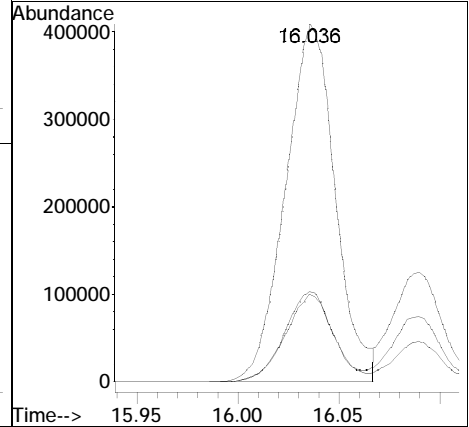
Tgt Ion	Ratio	Lower	Upper
252	100		
125	14.8	12.6	18.8
253	22.2	16.9	25.3

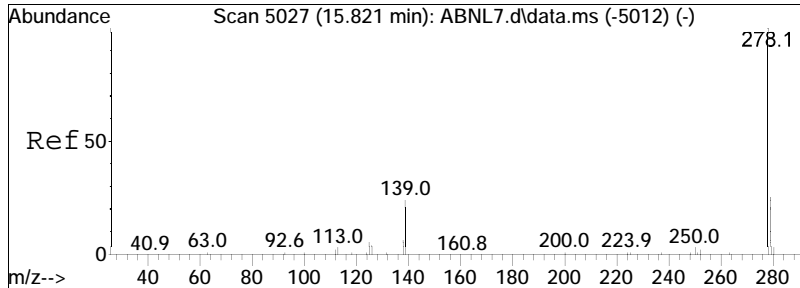




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 51.43 ug/mL
 RT: 16.036 min Scan# 5085
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

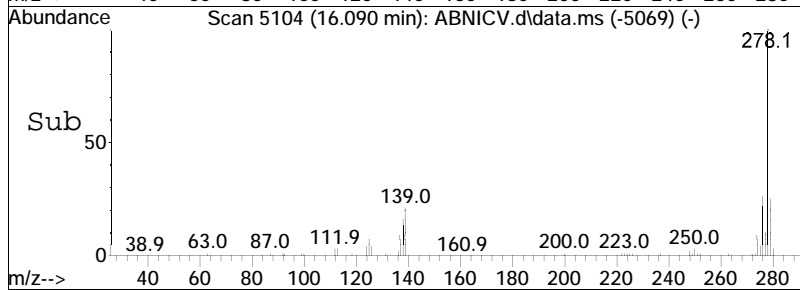
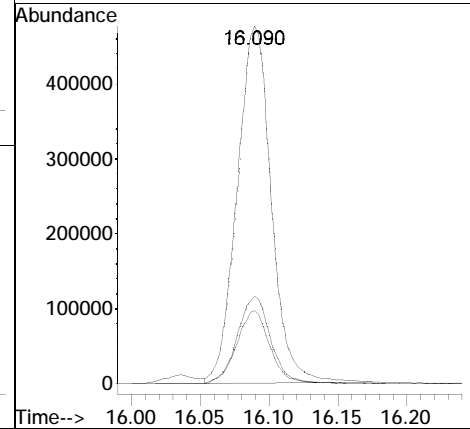
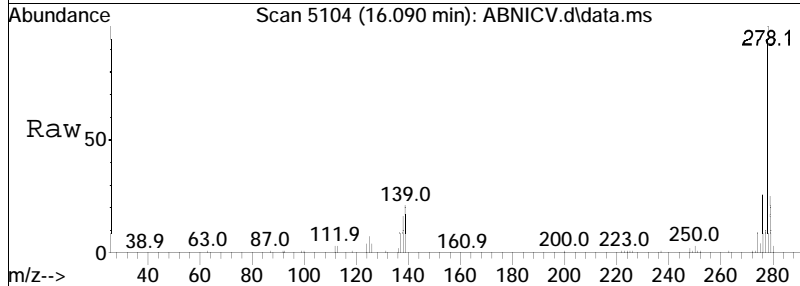
Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.7	21.4	32.0
277	24.0	19.2	28.8

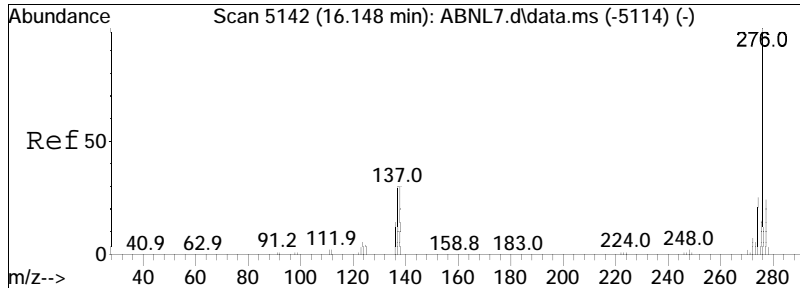




#115
 Dibenzo(a,h)anthracene
 Concen: 50.16 ug/ml
 RT: 16.090 min Scan# 5104
 Delta R.T. -0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

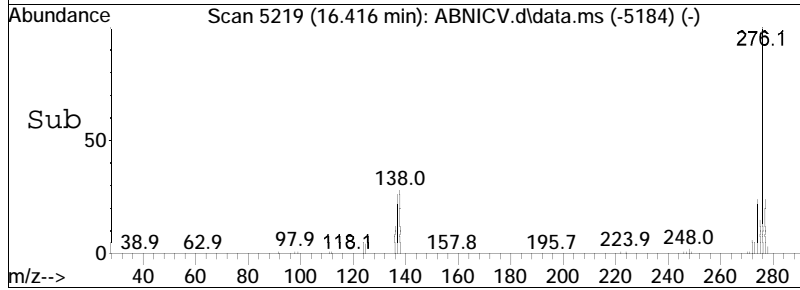
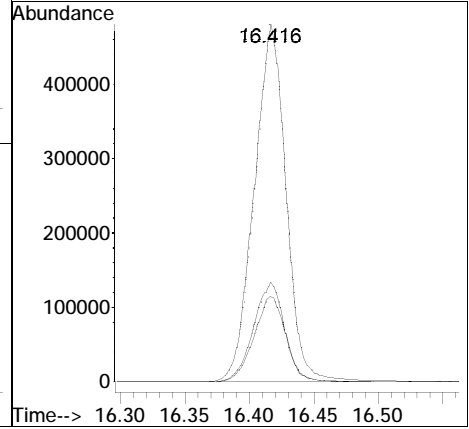
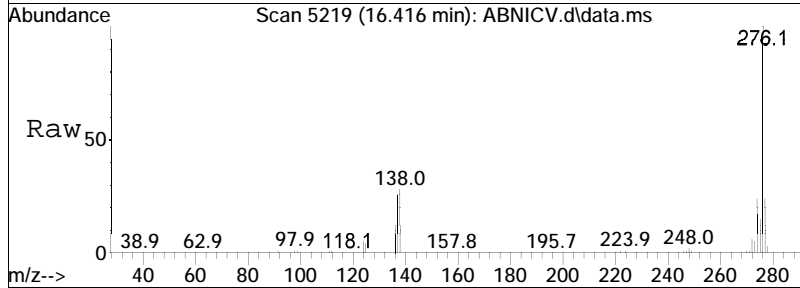
Tgt Ion	Resp	Lower	Upper
278	100		
139	20.3	17.1	25.7
279	24.1	19.3	28.9





#116
 Benzo(ghi)perylene
 Concen: 49.17 ug/ml
 RT: 16.416 min Scan# 5219
 Delta R.T. 0.000 min
 Lab File: ABNICV.d
 Acq: 16 May 2023 5:08 am

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.8	26.7	40.1
277	24.2	19.4	29.2



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ABNICV.d Operator : SV103:jg
Date Inj'd : 5/16/2023 5:08 am Instrument : SV103
Sample : CQICV1,32,,ABNICV Lot# 100Quant Date : 5/16/2023 5:26 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\230515nical\
 Data File : AP9ICV.d
 Acq On : 16 May 2023 5:32 am
 Operator : SV103:jg
 Sample : CQICV2,32,,AP9ICV Lot# 10075
 Misc : WG1779694,,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 16 13:22:24 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:16:52 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27 I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	79	0.00
28 T	Benzaldehyde	0.860	0.963	-12.0	84	0.00
29 T	Acetophenone	1.741	1.828	-5.0	77	0.00
30 T	m-Toluidine	1.485	1.703	-14.7	80	0.00
31 T	2-Chloroaniline	1.570	1.692	-7.8	78	0.00
55 I	IS2_Naphthalene-d8	1.000	1.000	0.0	73	0.00
56 T	a-Terpineol	0.231	0.258	-11.7	77	0.00
57 T	3-Chloroaniline	0.115	0.123	-7.0	76	0.00
58 T	2,6-Dichlorophenol	0.251	0.289	-15.1	75	0.00
59 T	1-chloro-2-nitrobenzene	0.121	0.134	-10.7	76	0.00
60 T	Caprolactam	0.131	0.145	-10.7	72	0.00
61 T	1,2,4,5-Tetrachlorobenzene	0.302	0.322	-6.6	77	0.00
62 T	Biphenyl	0.823	0.869	-5.6	74	0.00
83 I	IS2_Acenaphthene-d10	1.000	1.000	0.0	70	0.00
84 T	Dichloran	0.144	0.160	-11.1	74	0.00
85 T	Pentachloronitrobenzene	0.135	0.155	-14.8	73	0.00
98 I	IS2_Phenanthrene-d10	1.000	1.000	0.0	71	0.00
99 T	Diphenamid	0.416	0.513	-23.3#	78	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : AP9ICV.d
 Acq On : 16 May 2023 5:32 am
 Operator : SV103:jg
 Sample : CQICV2,32,,AP9ICV Lot# 10075
 Misc : WG1779694,,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 16 13:22:24 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:16:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\AP9L7.d
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.906	152	157376	40.000	ug/ml	0.00
Standard Area 1 = 199831			Recovery	=	78.75%	
55) IS2_Naphthalene-d8	6.147	136	600724	40.000	ug/ml	0.00
Standard Area 1 = 817739			Recovery	=	73.46%	
83) IS2_Acenaphthene-d10	7.861	164	318136	40.000	ug/ml	0.00
Standard Area 1 = 455152			Recovery	=	69.90%	
98) IS2_Phenanthrene-d10	9.301	188	647811	40.000	ug/ml	0.00
Standard Area 1 = 918145			Recovery	=	70.56%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.471	105	189445	55.989	ug/ml	99
29) Acetophenone	5.303	105	359640	52.517	ug/ml	95
30) m-Toluidine	5.386	106	335040	57.353	ug/ml	99
31) 2-Chloroaniline	5.750	127	332910	53.903	ug/ml	99
56) a-Terpineol	6.199	59	193405	55.785	ug/ml	89
57) 3-Chloroaniline	6.213	65	92476	53.544	ug/ml	97
58) 2,6-Dichlorophenol	6.241	162	216885	57.508	ug/ml	93
59) 1-chloro-2-nitrobenzene	6.497	111	100782	55.281	ug/ml	97
60) Caprolactam	6.537	55	109191	55.312	ug/ml	95
61) 1,2,4,5-Tetrachloroben...	7.017	216	241424	53.282	ug/ml	98
62) Biphenyl	7.310	154	652869	52.825	ug/ml	99
84) Dichloran	8.992	206	63768	55.605	ug/ml	88
85) Pentachloronitrobenzene	9.142	237	61629	57.592	ug/ml#	87
99) Diphenamid	10.205	167	415089	61.589	ug/ml#	79

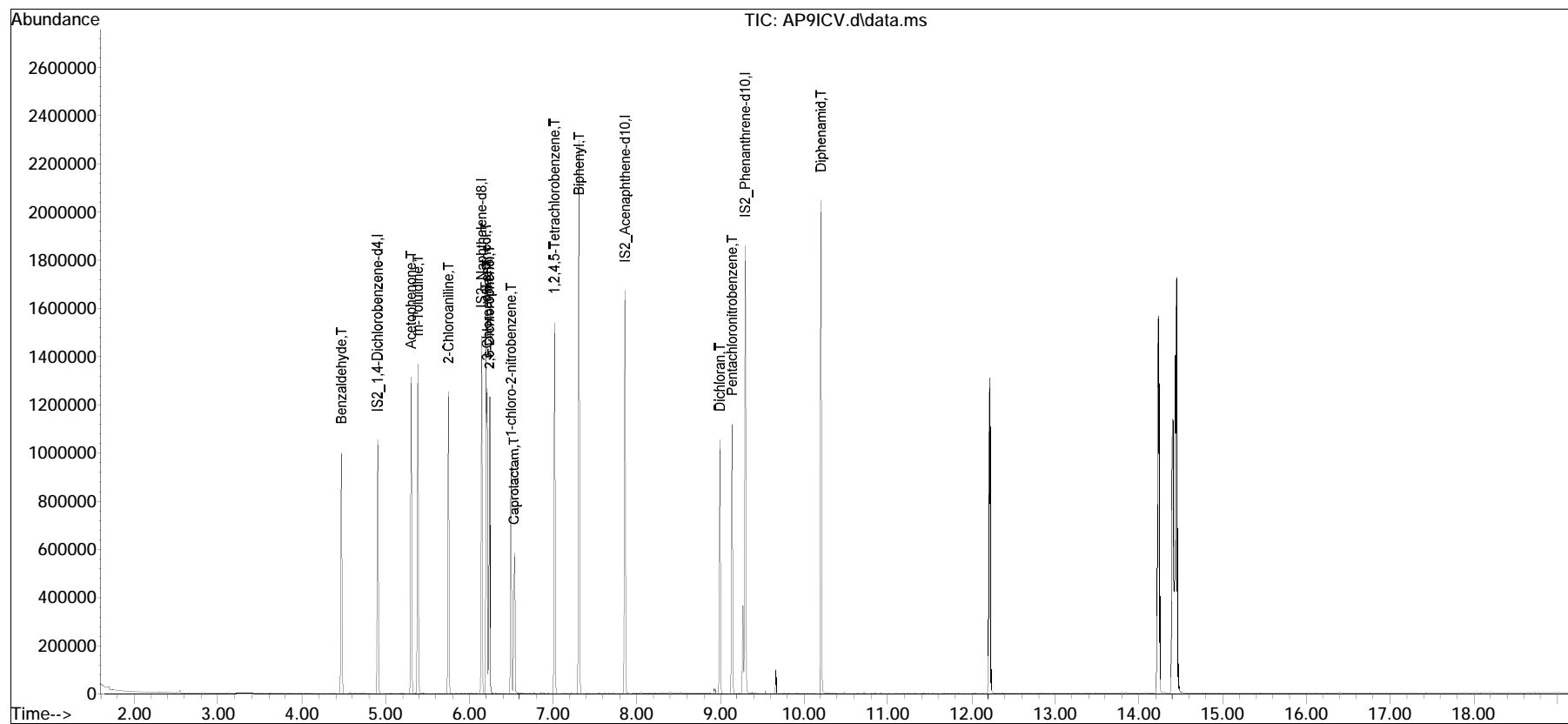
(#) = qualifier out of range (m) = manual integration (+) = signals summed

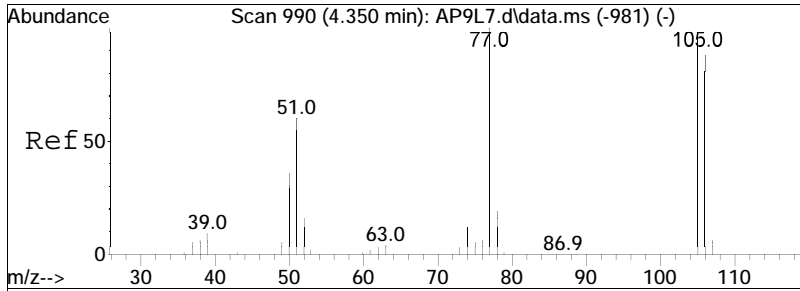
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : AP9ICV.d
Acq On : 16 May 2023 5:32 am
Operator : SV103:jg
Sample : CQICV2,32,,AP9ICV Lot# 10075
Misc : WG1779694,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 16 13:22:24 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 13:16:52 2023
Response via : Initial Calibration

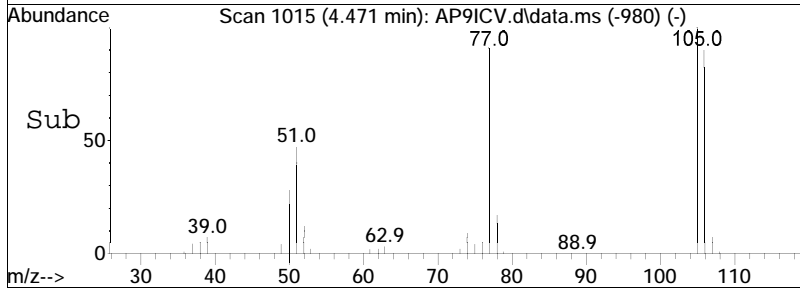
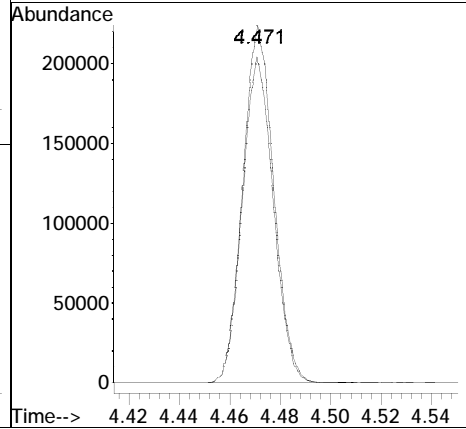
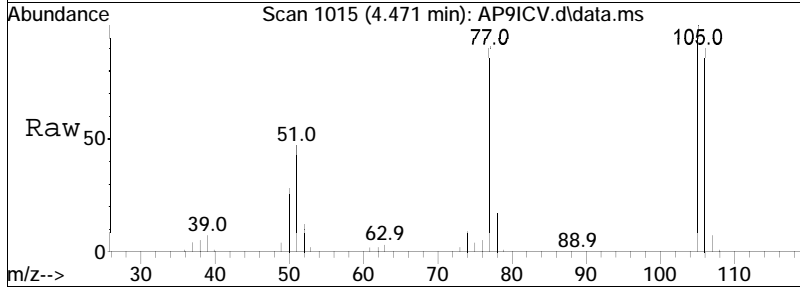
Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•

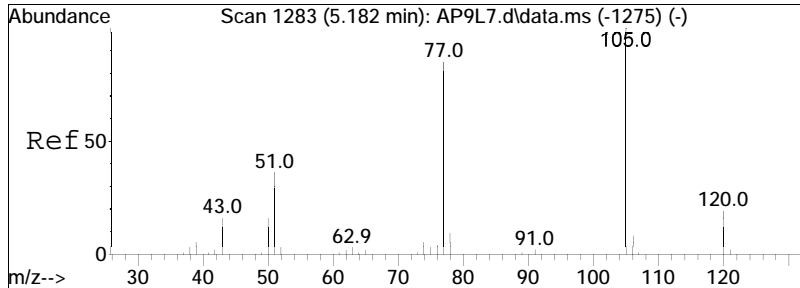




#28
 Benzaldehyde
 Concen: 55.99 ug/ml
 RT: 4.471 min Scan# 1015
 Delta R.T. -0.000 min
 Lab File: AP9ICV.d
 Acq: 16 May 2023 5:32 am

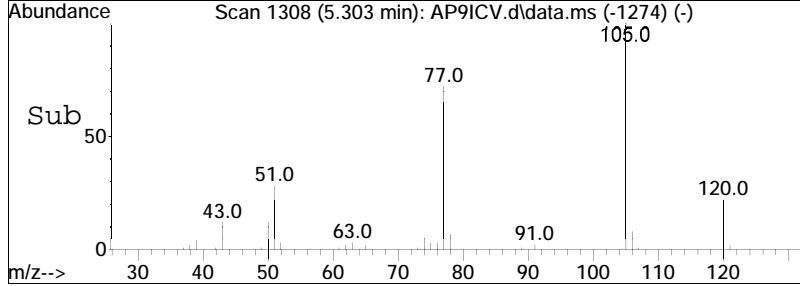
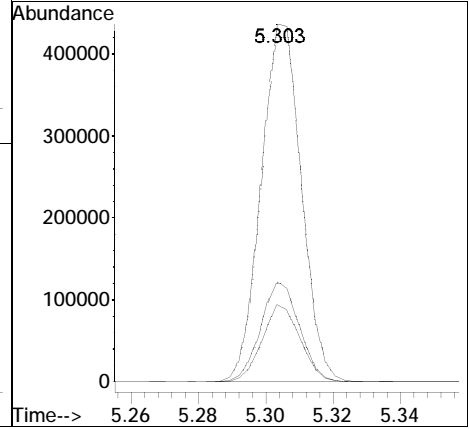
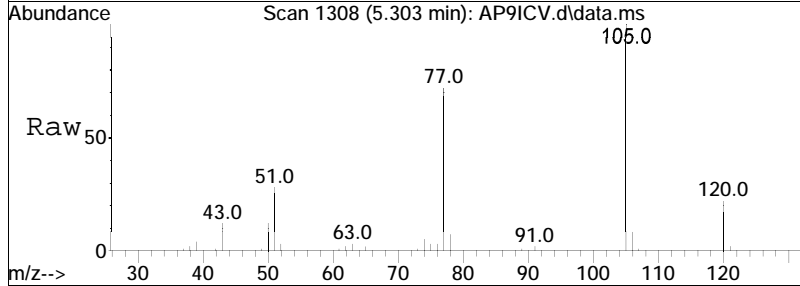
Tgt Ion: 105 Resp: 189445
 Ion Ratio Lower Upper
 105 100
 77 91.3 72.0 108.0

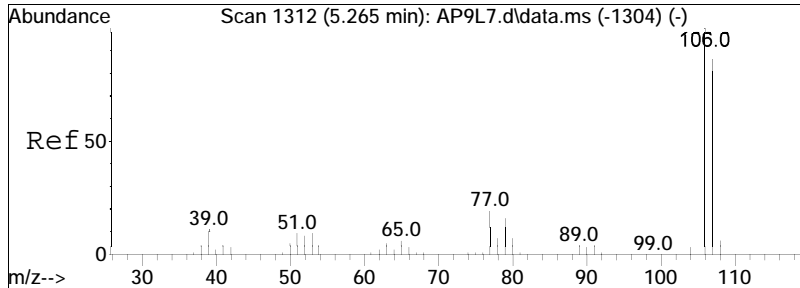




#29
 Acetophenone
 Concen: 52.52 ug/ml
 RT: 5.303 min Scan# 1308
 Delta R.T. -0.003 min
 Lab File: AP9ICV.d
 Acq: 16 May 2023 5:32 am

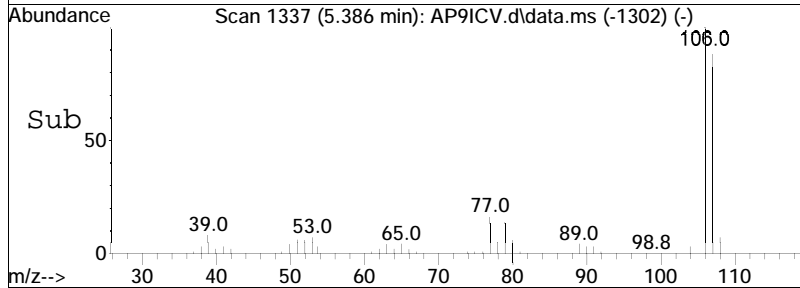
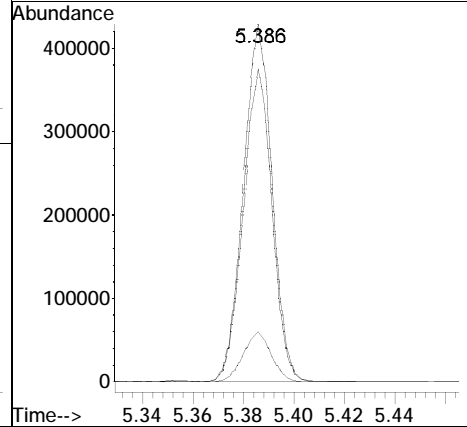
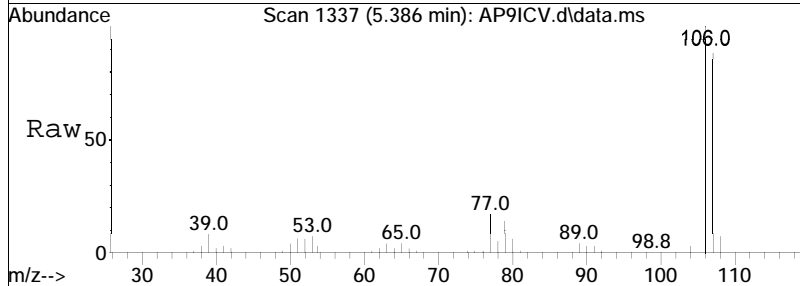
Tgt Ion	Ratio	Lower	Upper
105	100		
120	20.5	18.0	27.0
51	27.1	23.8	35.6

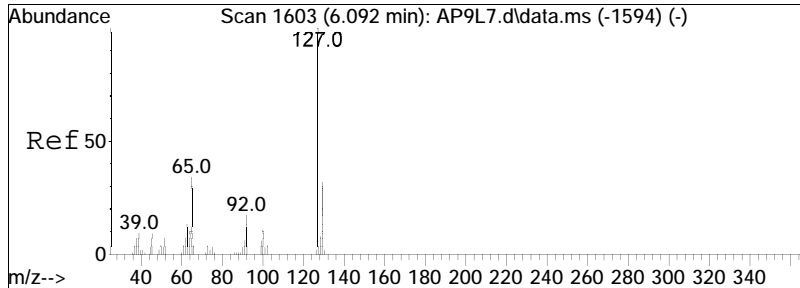




#30
 m-Toluidine
 Concen: 57.35 ug/ml
 RT: 5.386 min Scan# 1337
 Delta R.T. -0.000 min
 Lab File: AP9ICV.d
 Acq: 16 May 2023 5:32 am

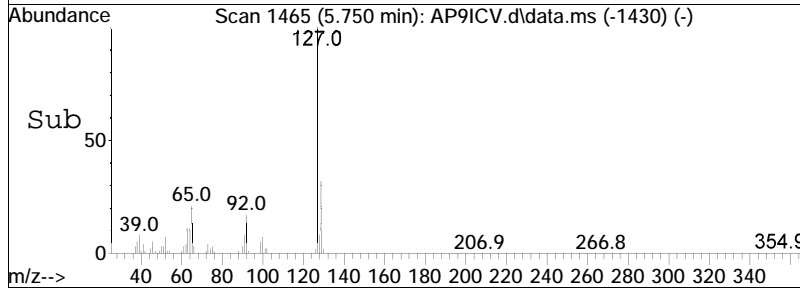
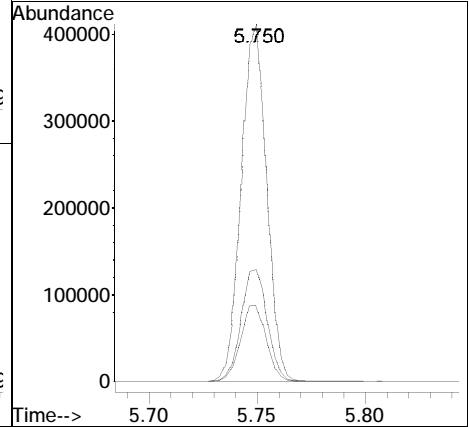
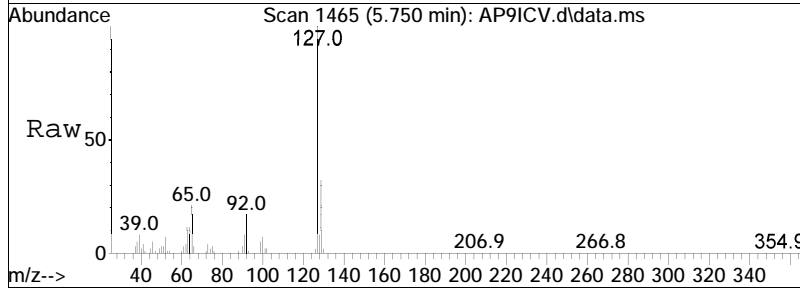
Tgt Ion	Resp	Lower	Upper
106	100		
107	87.9	71.1	106.7
79	13.6	10.5	15.7

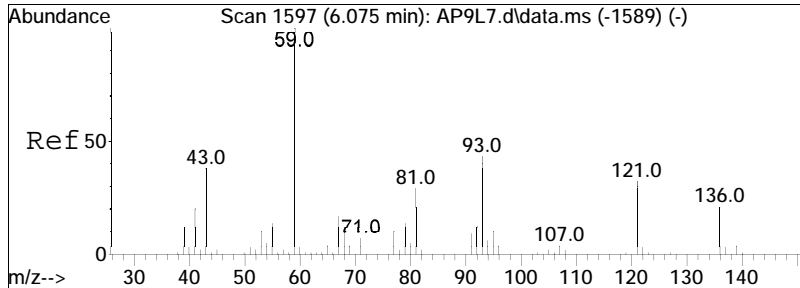




#31
 2-Chloroaniline
 Concen: 53.90 ug/ml
 RT: 5.750 min Scan# 1465
 Delta R.T. 0.001 min
 Lab File: AP9ICV.d
 Acq: 16 May 2023 5:32 am

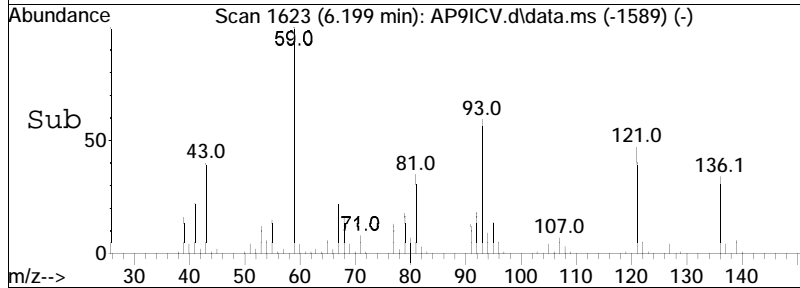
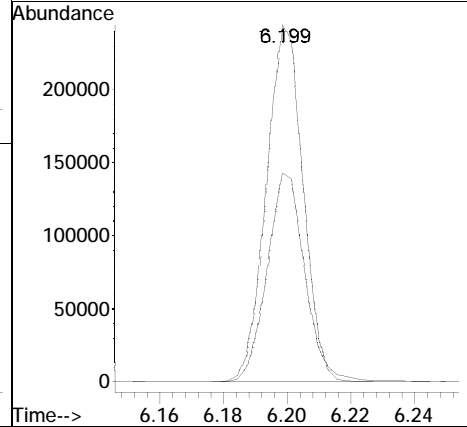
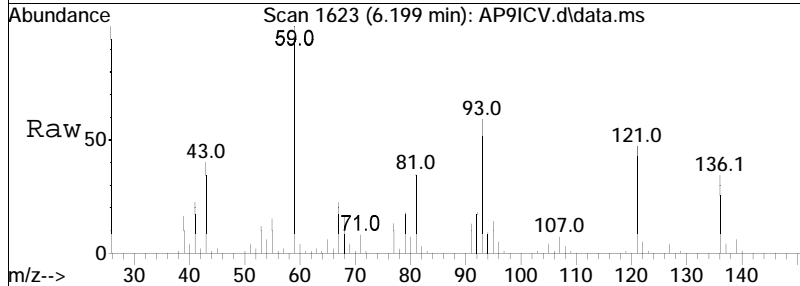
Tgt Ion	Ratio	Lower	Upper
127	100		
129	32.6	25.9	38.9
65	21.9	17.1	25.7

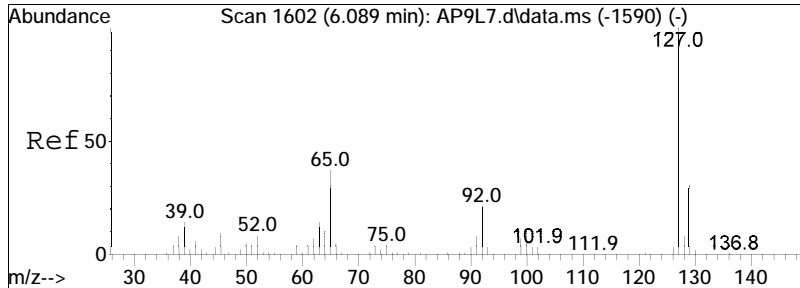




#56
 a-Terpineol
 Concen: 55.79 ug/ml
 RT: 6.199 min Scan# 1623
 Delta R.T. -0.002 min
 Lab File: AP9ICV.d
 Acq: 16 May 2023 5:32 am

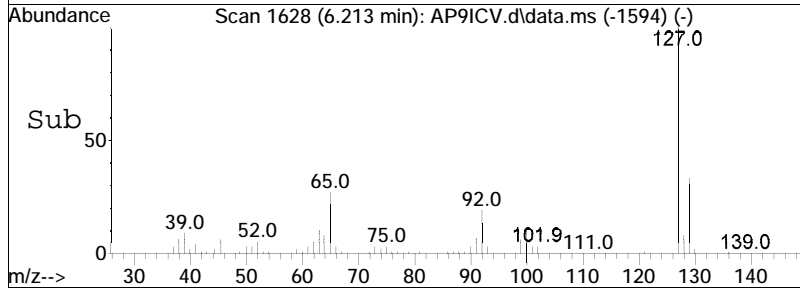
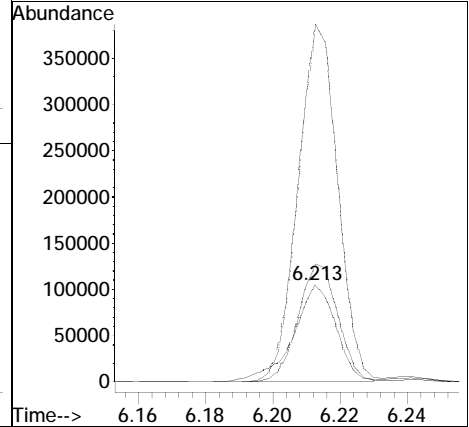
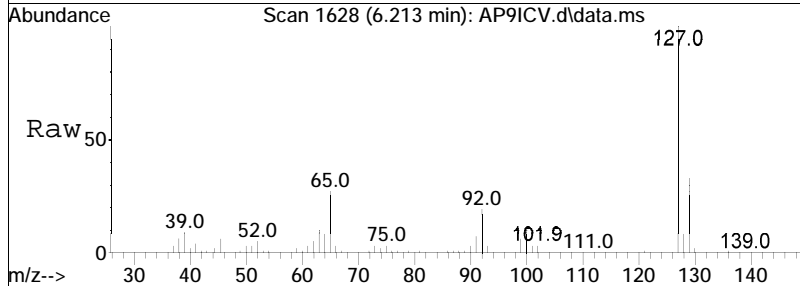
Tgt Ion:	Resp:	Lower	Upper
59	100		
93	60.7	42.2	63.4

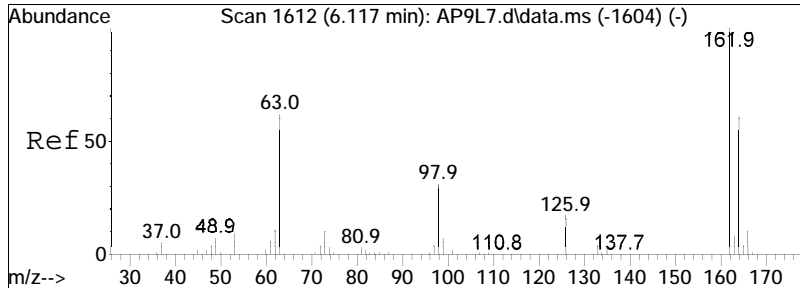




#57
 3-Chloroaniline
 Concen: 53.54 ug/ml
 RT: 6.213 min Scan# 1628
 Delta R.T. -0.002 min
 Lab File: AP9ICV.d
 Acq: 16 May 2023 5:32 am

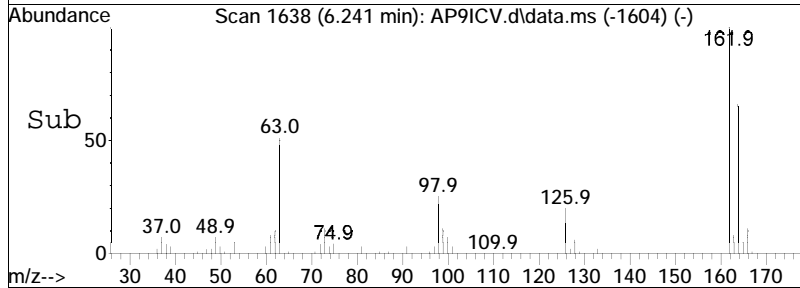
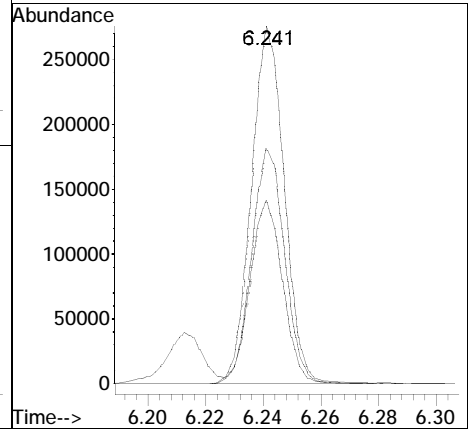
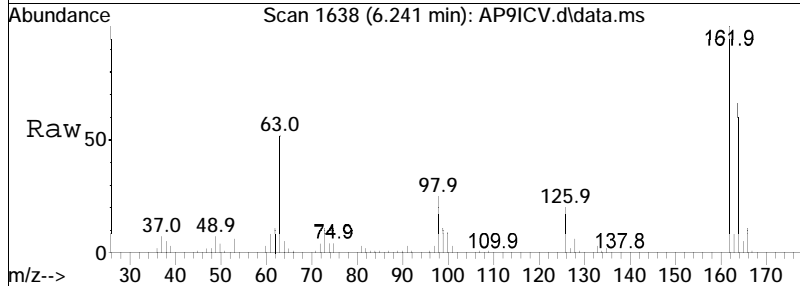
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
65	100		
127	339.6	278.4	417.6
129	113.1	88.9	133.3

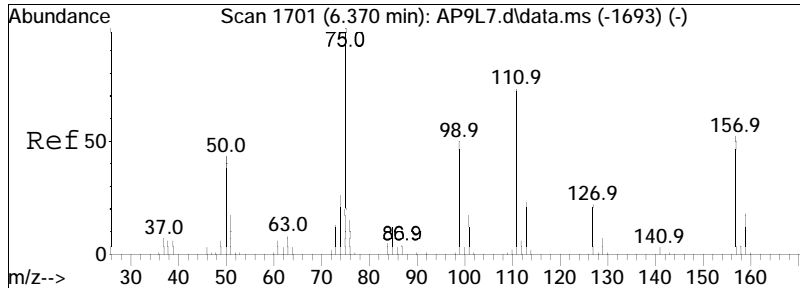




#58
 2,6-Dichlorophenol
 Concen: 57.51 ug/ml
 RT: 6.241 min Scan# 1638
 Delta R.T. -0.003 min
 Lab File: AP9ICV.d
 Acq: 16 May 2023 5:32 am

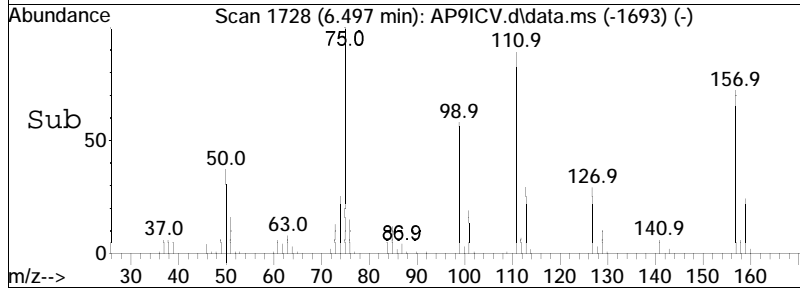
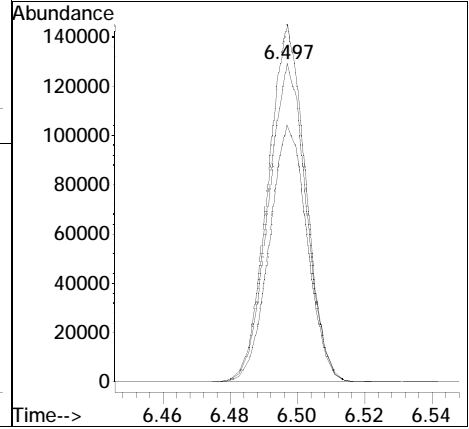
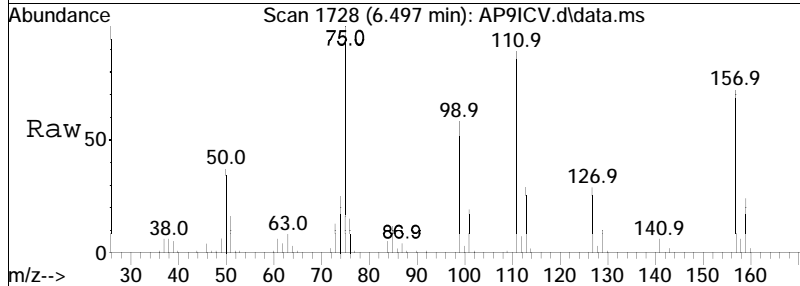
Tgt Ion	Resp	Lower	Upper
162	100		
164	66.0	50.8	76.2
63	50.4	47.4	71.0

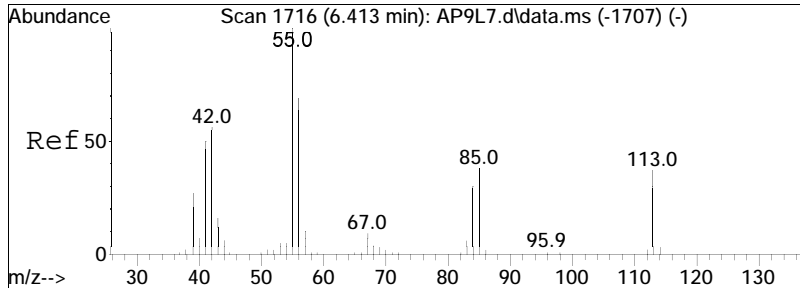




#59
 1-chloro-2-nitrobenzene
 Concen: 55.28 ug/ml
 RT: 6.497 min Scan# 1728
 Delta R.T. -0.000 min
 Lab File: AP9ICV.d
 Acq: 16 May 2023 5:32 am

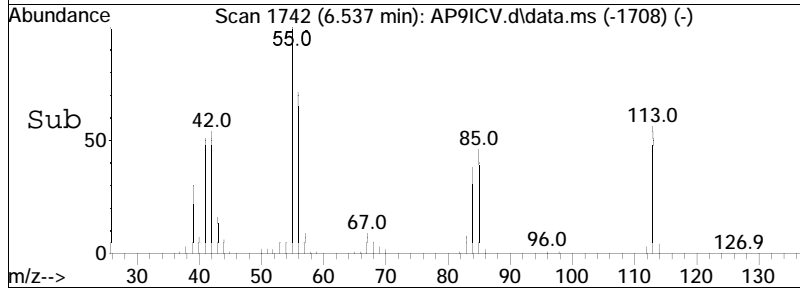
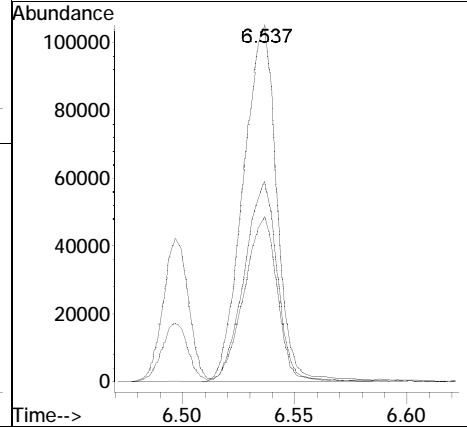
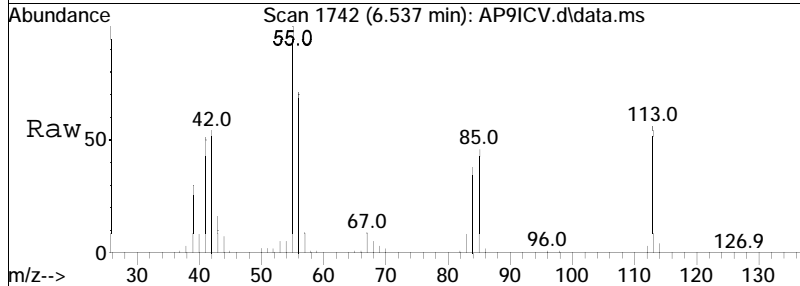
Tgt Ion	Resp	Lower	Upper
111	100		
157	80.3	62.6	94.0
75	111.9	93.0	139.6

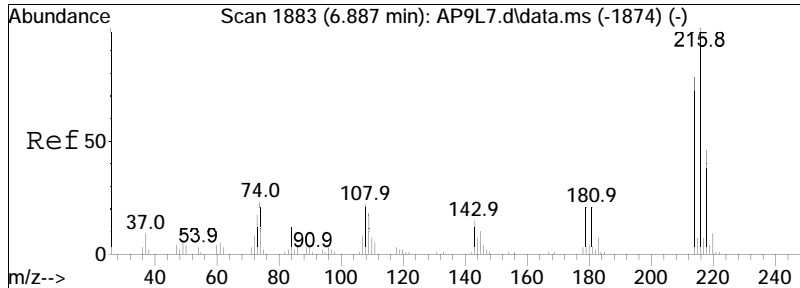




#60
 Caprolactam
 Concen: 55.31 ug/ml
 RT: 6.537 min Scan# 1742
 Delta R.T. -0.002 min
 Lab File: AP9ICV.d
 Acq: 16 May 2023 5:32 am

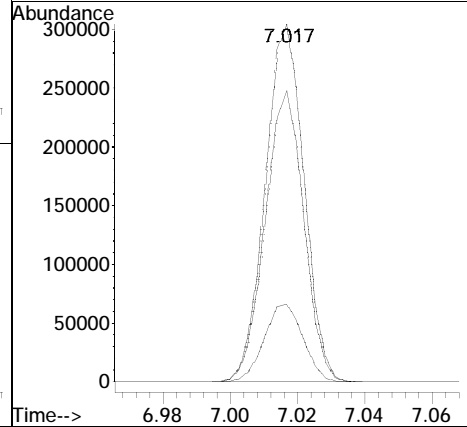
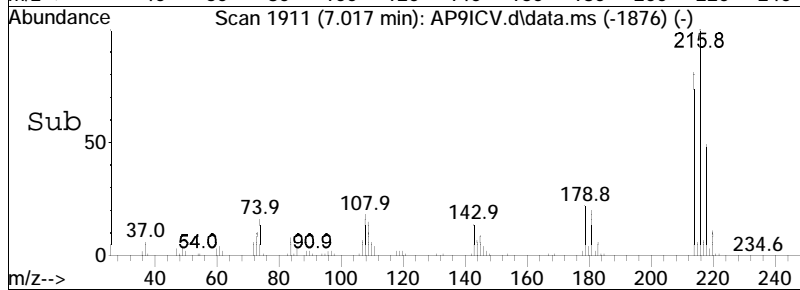
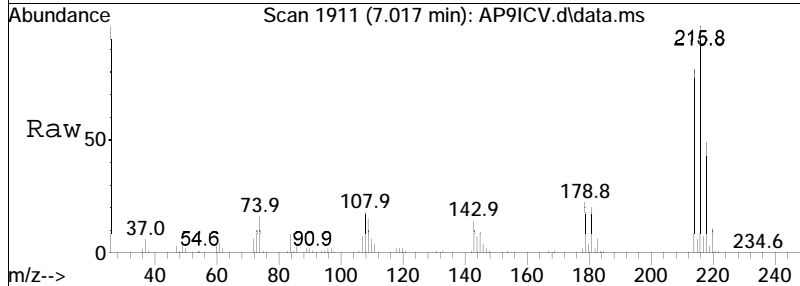
Tgt Ion:	55	Resp:	109191
Ion Ratio	Lower	Upper	
55	100		
85	46.2	32.6	48.8
113	54.2	44.6	66.8

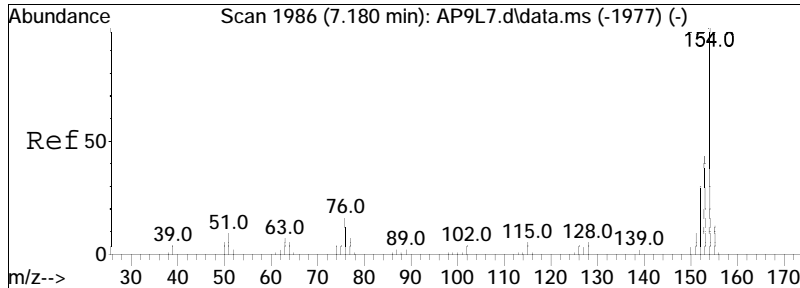




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 53.28 ug/ml
 RT: 7.017 min Scan# 1911
 Delta R.T. -0.000 min
 Lab File: AP9ICV.d
 Acq: 16 May 2023 5:32 am

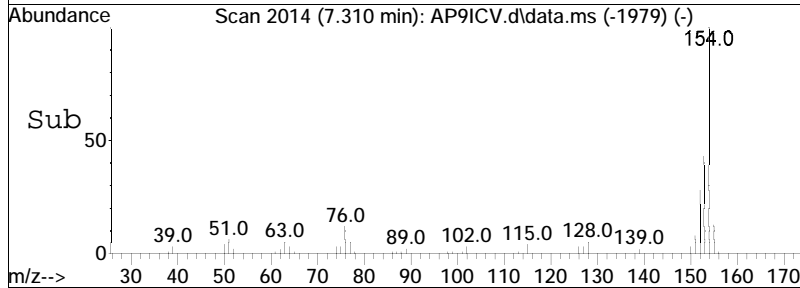
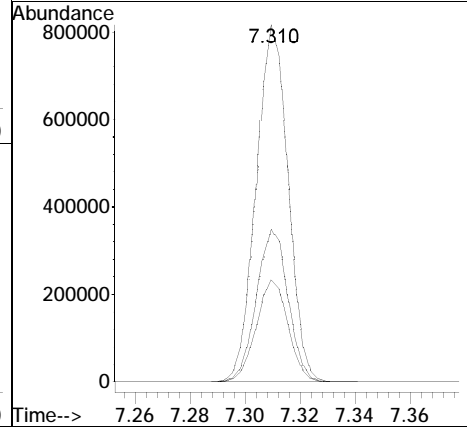
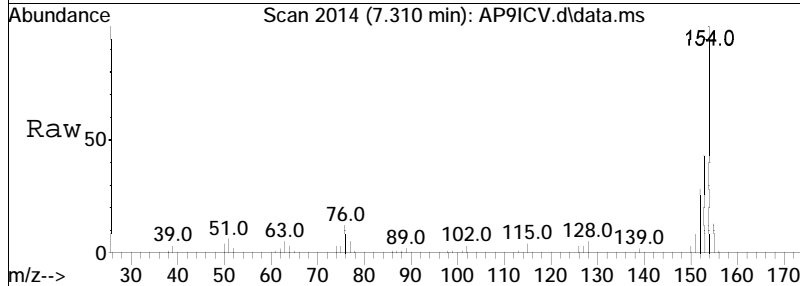
Tgt Ion	Ratio	Lower	Upper
216	100		
214	81.1	63.0	94.6
179	22.0	17.4	26.2

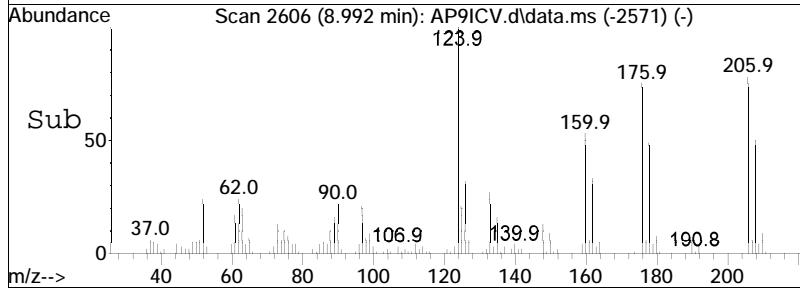
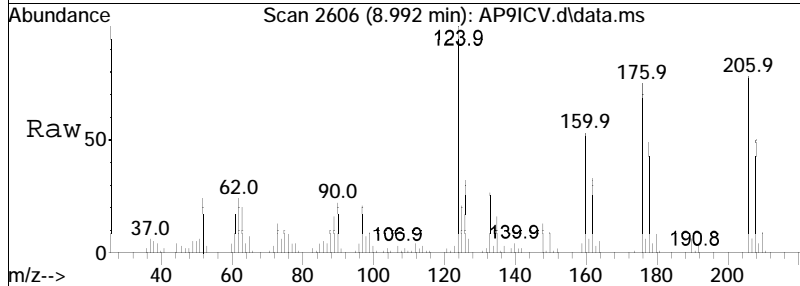
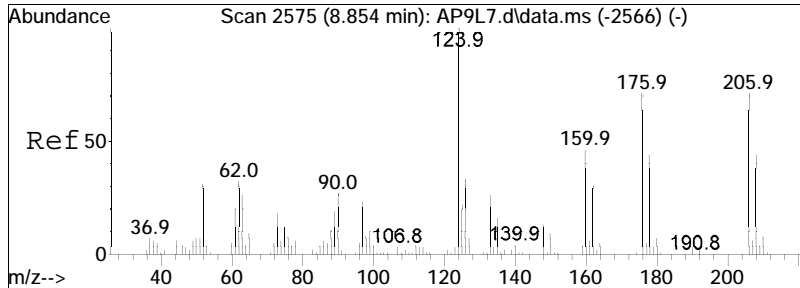




#62
 Biphenyl
 Concen: 52.83 ug/ml
 RT: 7.310 min Scan# 2014
 Delta R.T. 0.001 min
 Lab File: AP9ICV.d
 Acq: 16 May 2023 5:32 am

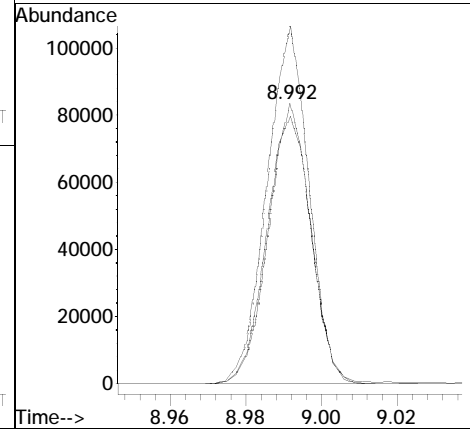
Tgt Ion	Resp	Lower	Upper
154	100		
153	42.6	33.5	50.3
152	28.6	22.6	34.0

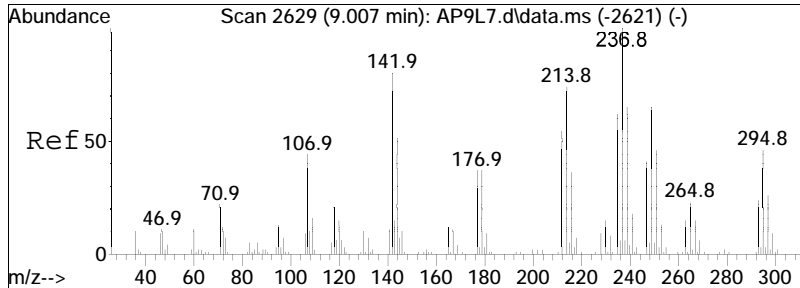




#84
 Dichloran
 Concen: 55.61 ug/ml
 RT: 8.992 min Scan# 2606
 Delta R.T. -0.000 min
 Lab File: AP9ICV.d
 Acq: 16 May 2023 5:32 am

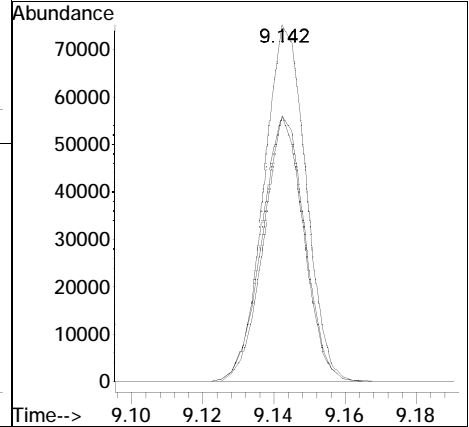
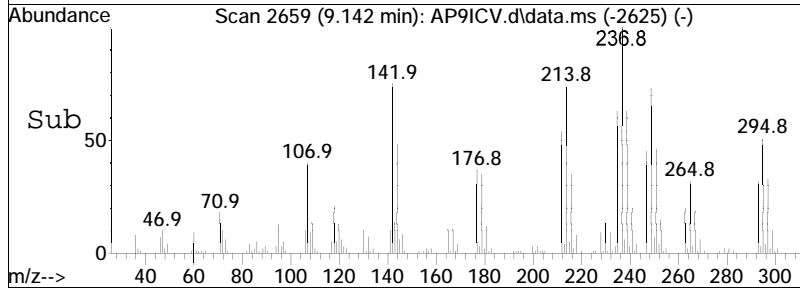
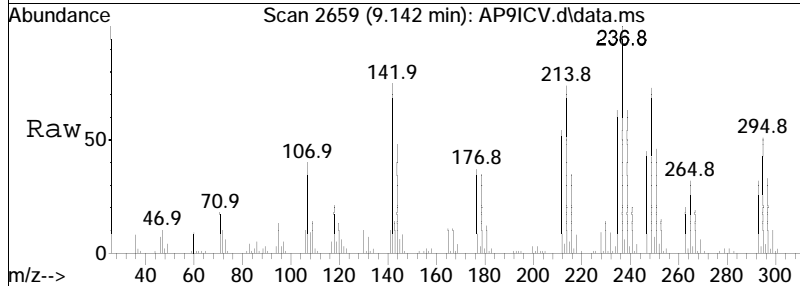
Tgt Ion	Resp	Lower	Upper
206	100		
176	102.9	72.3	108.5
124	127.9	114.0	171.0

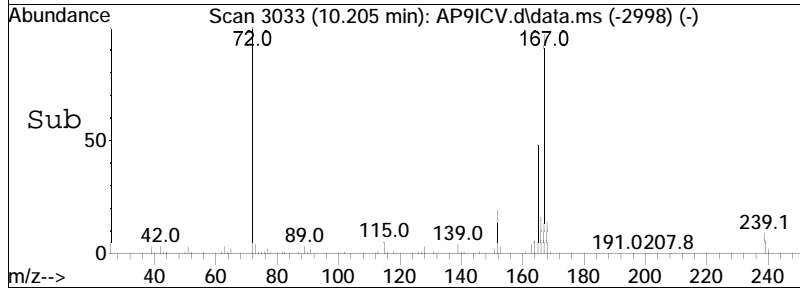
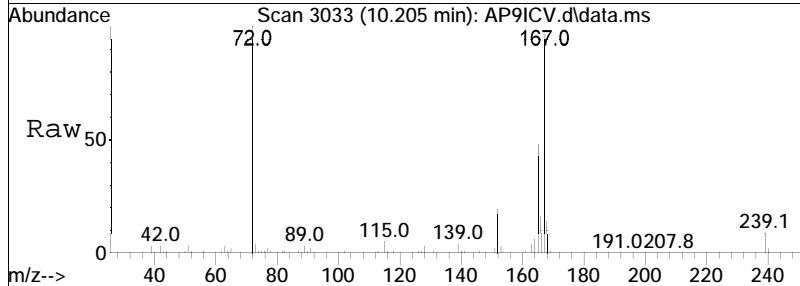
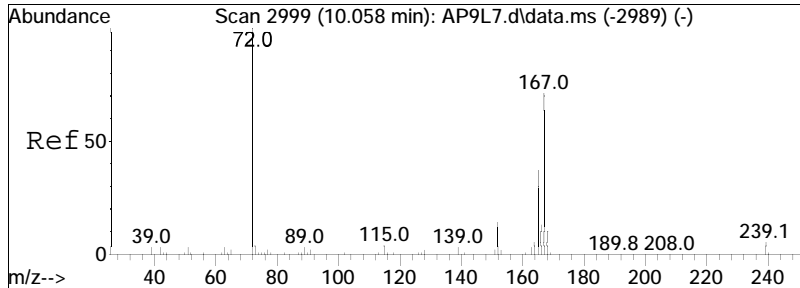




#85
 Pentachloronitrobenzene
 Concen: 57.59 ug/ml
 RT: 9.142 min Scan# 2659
 Delta R.T. -0.003 min
 Lab File: AP9ICV.d
 Acq: 16 May 2023 5:32 am

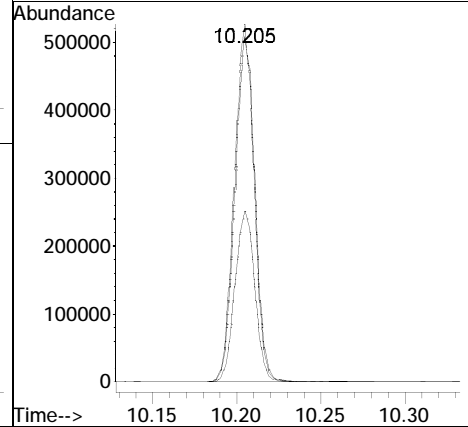
Tgt Ion	Resp	Lower	Upper
237	100		
142	74.1	75.2	112.8#
214	72.8	60.5	90.7





#99
 Diphenamid
 Concen: 61.59 ug/ml
 RT: 10.205 min Scan# 3033
 Delta R.T. -0.000 min
 Lab File: AP9ICV.d
 Acq: 16 May 2023 5:32 am

Tgt Ion	Resp	Lower	Upper
167	100		
72	101.5	105.4	158.2#
165	49.4	36.2	54.4



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : AP9ICV.d Operator : SV103:jg
Date Inj'd : 5/16/2023 5:32 am Instrument : SV103
Sample : CQICV2,32,,AP9ICV Lot# 100Quant Date : 5/16/2023 1:22 pm

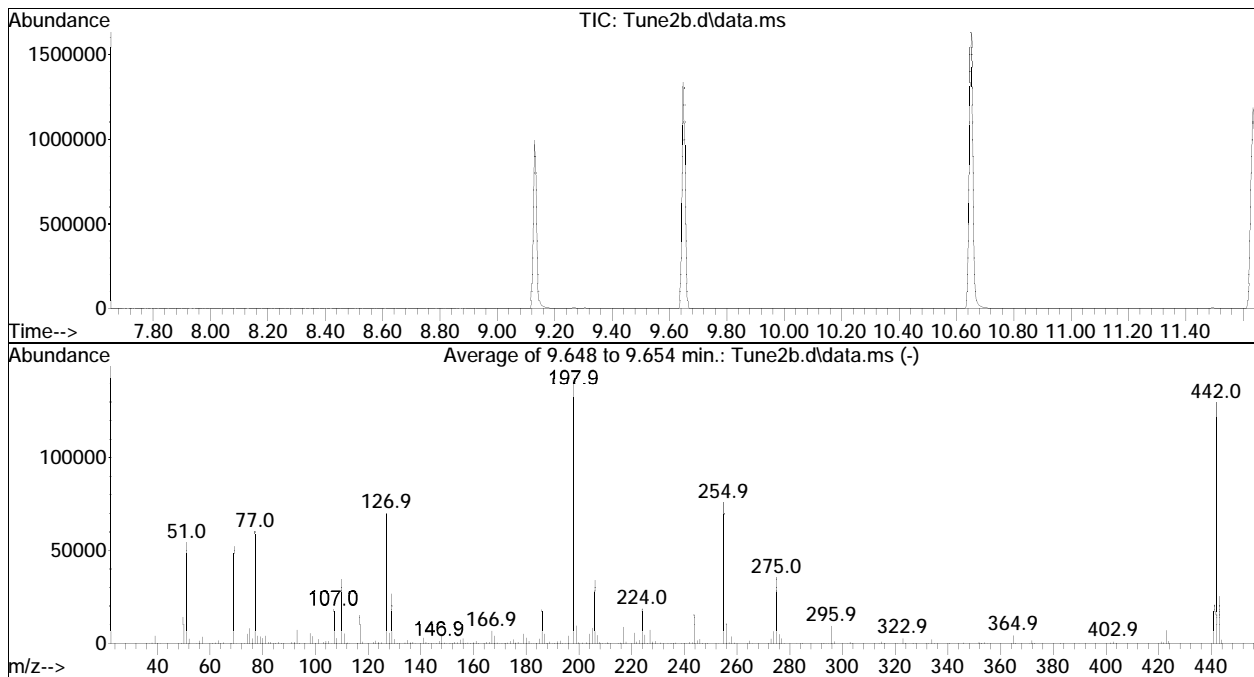
There are no manual integrations or false positives in this file.

DFTPP

Data Path : I:\8270\SV103\230515nical\
 Data File : Tune2b.d
 Acq On : 16 May 2023 9:38 am
 Operator : SV103:jg
 Sample : Tune2
 Misc : WG1779694,,
 ALS Vial : 41 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Tue May 16 15:00:26 2023

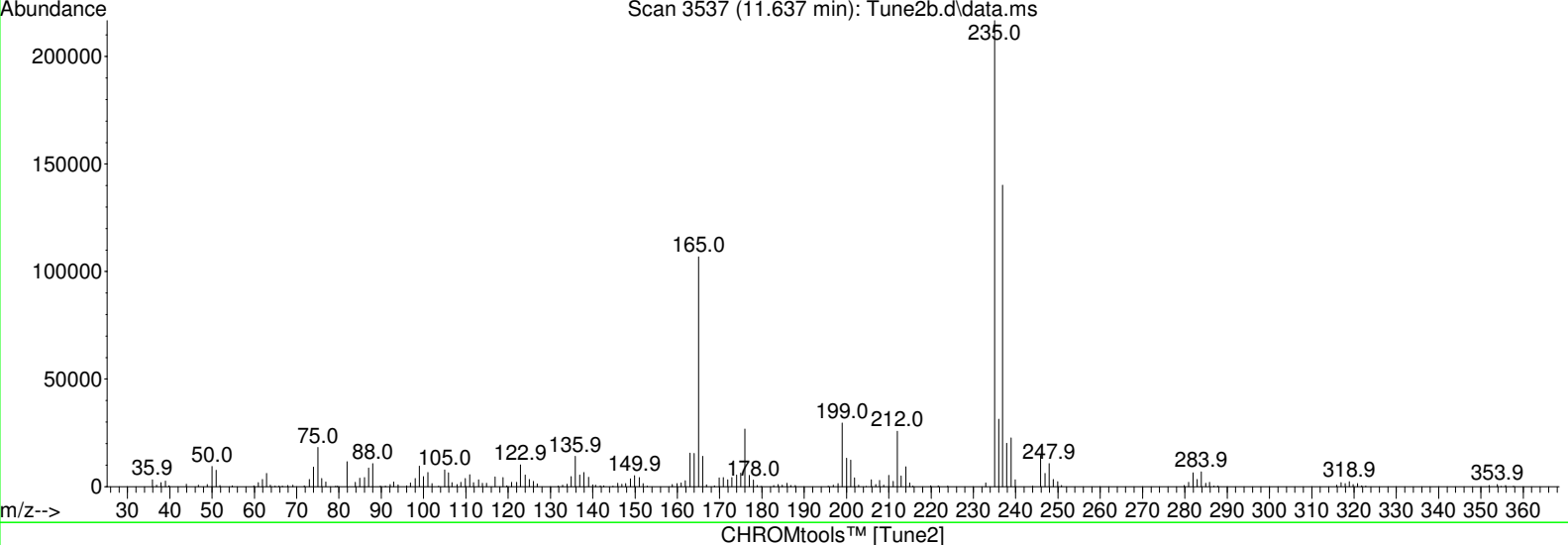
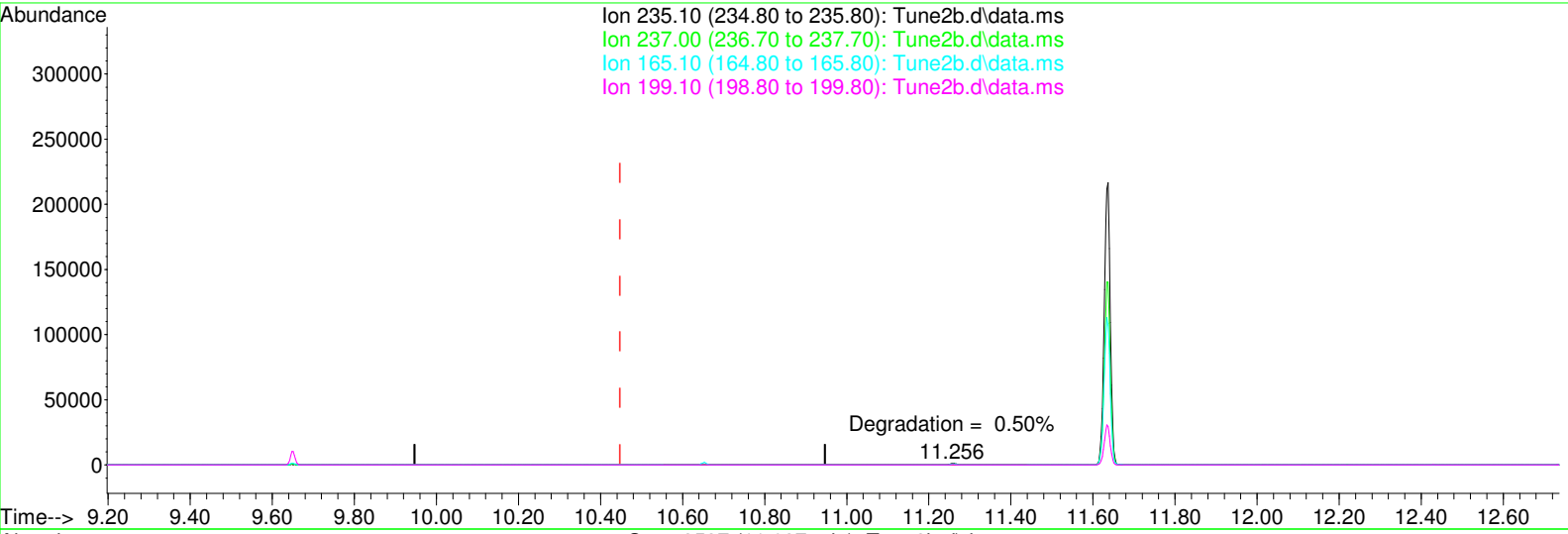


Spectrum Information: Average of 9.648 to 9.654 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.2	54352	PASS
68	69	0.00	2	1.1	571	PASS
69	69	0.20	100	100.0	52256	PASS
70	69	0.00	2	0.4	228	PASS
127	198	10	80	49.3	70091	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	142107	PASS
199	198	5	9	6.5	9226	PASS
275	198	10	60	24.7	35133	PASS
365	198	1	100	3.1	4393	PASS
441	442	0.01	24	16.3	21144	PASS
442	198	50	100	91.3	129744	PASS
443	442	15	24	19.6	25376	PASS

Data Path : I:\8270\SV103\230515nical\
 Data File : Tune2b.d
 Acq On : 16 May 2023 9:38 am
 Operator : SV103:jg
 Sample : Tune2
 Misc : WG1779694,,
 ALS Vial : 41 Sample Multiplier: 1

Quant Time: May 17 11:40:28 2023
 Quant Method : I:\8270\SV103\230515nical\DftppSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Nov 07 09:14:14 2017
 Response via : Initial Calibration



(6) DDT (T)

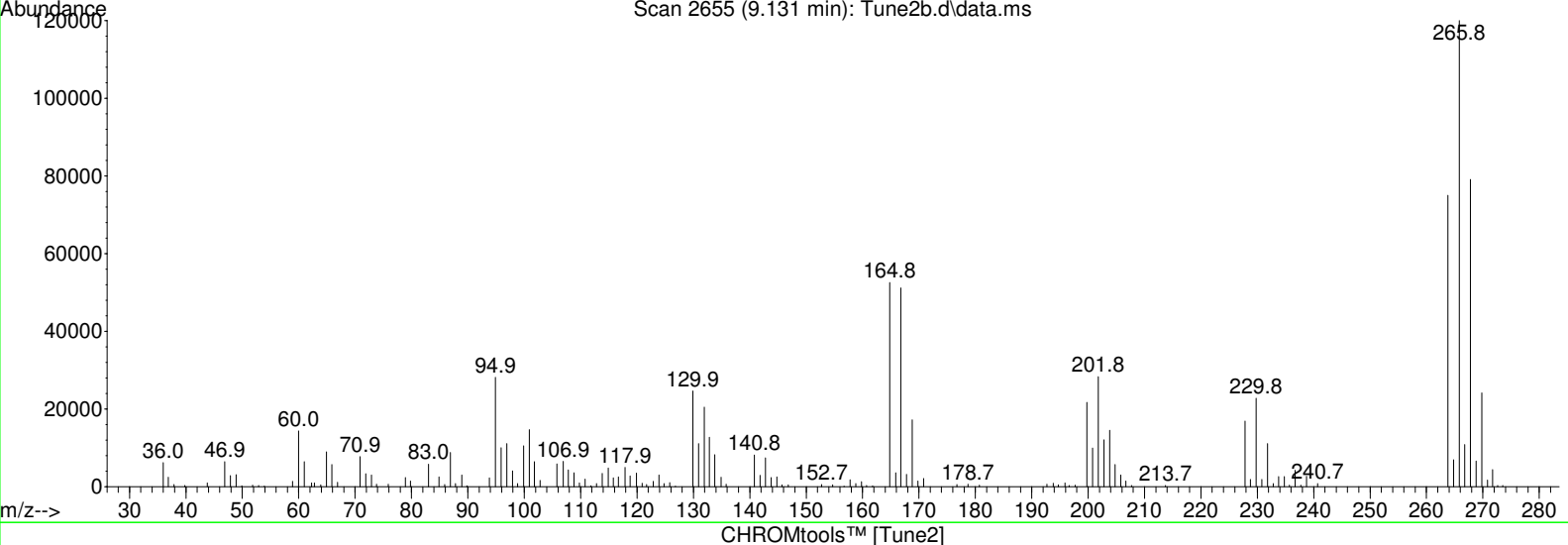
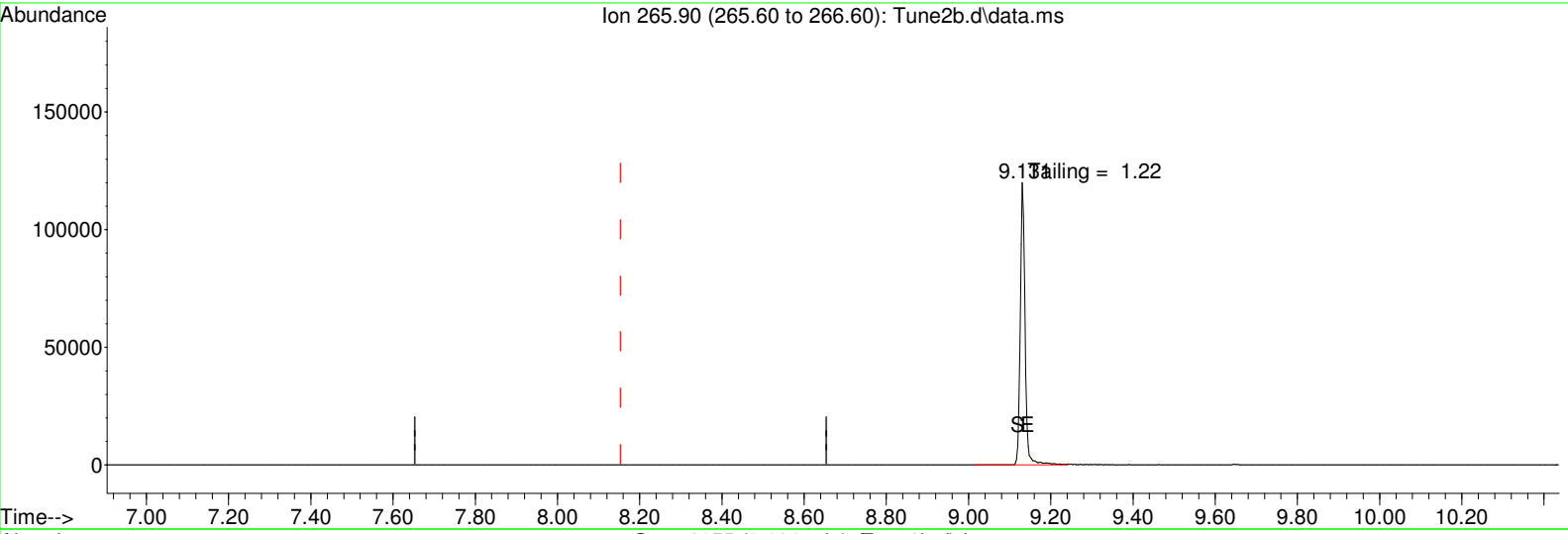
11.637min (+ 1.190) 0.00 M2

response 220893

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	59.90	0.00#
165.10	58.20	0.00#
199.10	14.20	0.00#

Data Path : I:\8270\SV103\230515nical\
 Data File : Tune2b.d
 Acq On : 16 May 2023 9:38 am
 Operator : SV103:jg
 Sample : Tune2
 Misc : WG1779694,,
 ALS Vial : 41 Sample Multiplier: 1

Quant Time: May 17 11:40:28 2023
 Quant Method : I:\8270\SV103\230515nical\DftppSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Nov 07 09:14:14 2017
 Response via : Initial Calibration



(1) Pentachlorophenol (T)

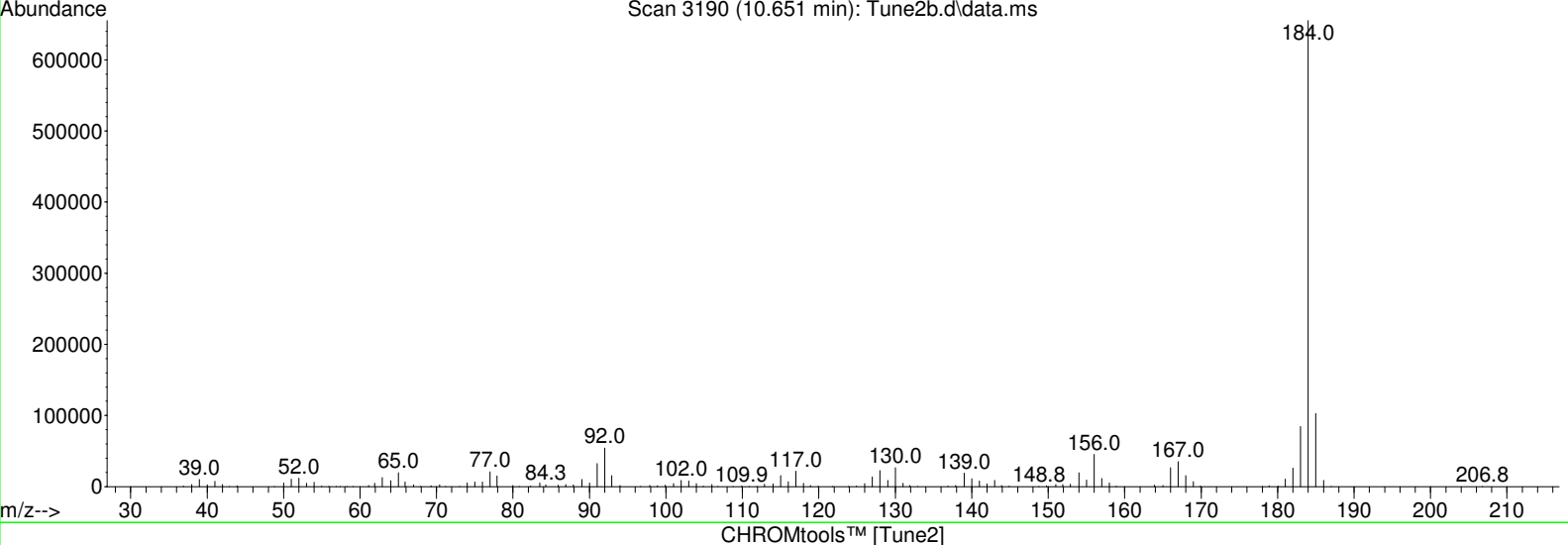
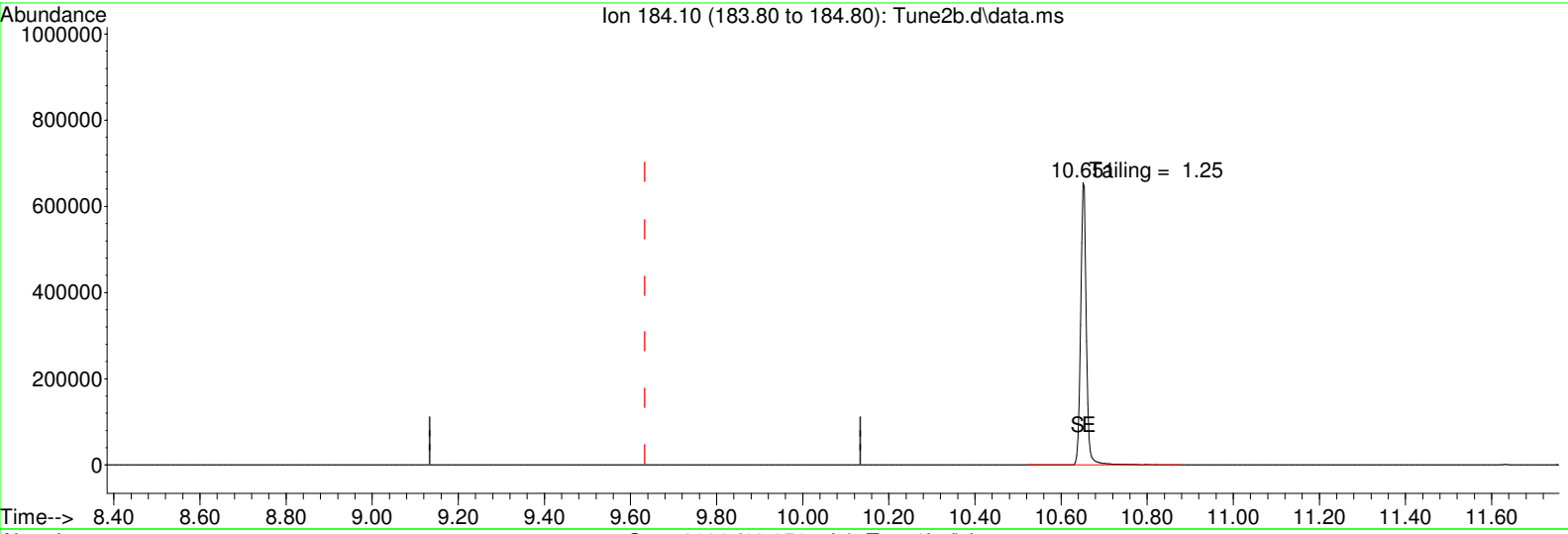
9.131min (+ 0.977) 0.00 M2

response 99266

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\8270\SV103\230515nical\
 Data File : Tune2b.d
 Acq On : 16 May 2023 9:38 am
 Operator : SV103:jg
 Sample : Tune2
 Misc : WG1779694,,
 ALS Vial : 41 Sample Multiplier: 1

Quant Time: May 17 11:40:28 2023
 Quant Method : I:\8270\SV103\230515nical\DftppSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Nov 07 09:14:14 2017
 Response via : Initial Calibration



(3) Benzidine (T)

10.651min (+ 1.017) 0.00 M2

response 601458

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ADPL10b.d
 Acq On : 16 May 2023 10:02 am
 Operator : SV103:jg
 Sample : IL21,32,,ADPL200 Lot# 10054
 Misc : WG1779694,,
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 16 13:24:57 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ADPL7b.d
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.909	152	193180	40.000	ug/ml	0.00
Standard Area 1 = 191045			Recovery	=	101.12%	
86) IS3_Acenaphthene-d10	7.861	164	400815	40.000	ug/ml	0.00
Standard Area 1 = 368328			Recovery	=	108.82%	
100) IS3_Phenanthrene-d10	9.301	188	784824	40.000	ug/ml	0.00
Standard Area 1 = 772972			Recovery	=	101.53%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.976	88	429362	203.007	ug/ml#	82
34) n-Decane	4.792	57	1244396	195.505	ug/ml	94
87) Atrazine	9.071	200	713677	188.021	ug/ml	98
101) n-Octadecane	9.267	57	1779305	218.107	ug/ml	94
102) Parathion	10.089	109	434181	228.346	ug/ml#	93
103) 3,3'-Dimethylbenzidine	11.498	212	2495653	178.745	ug/ml	97

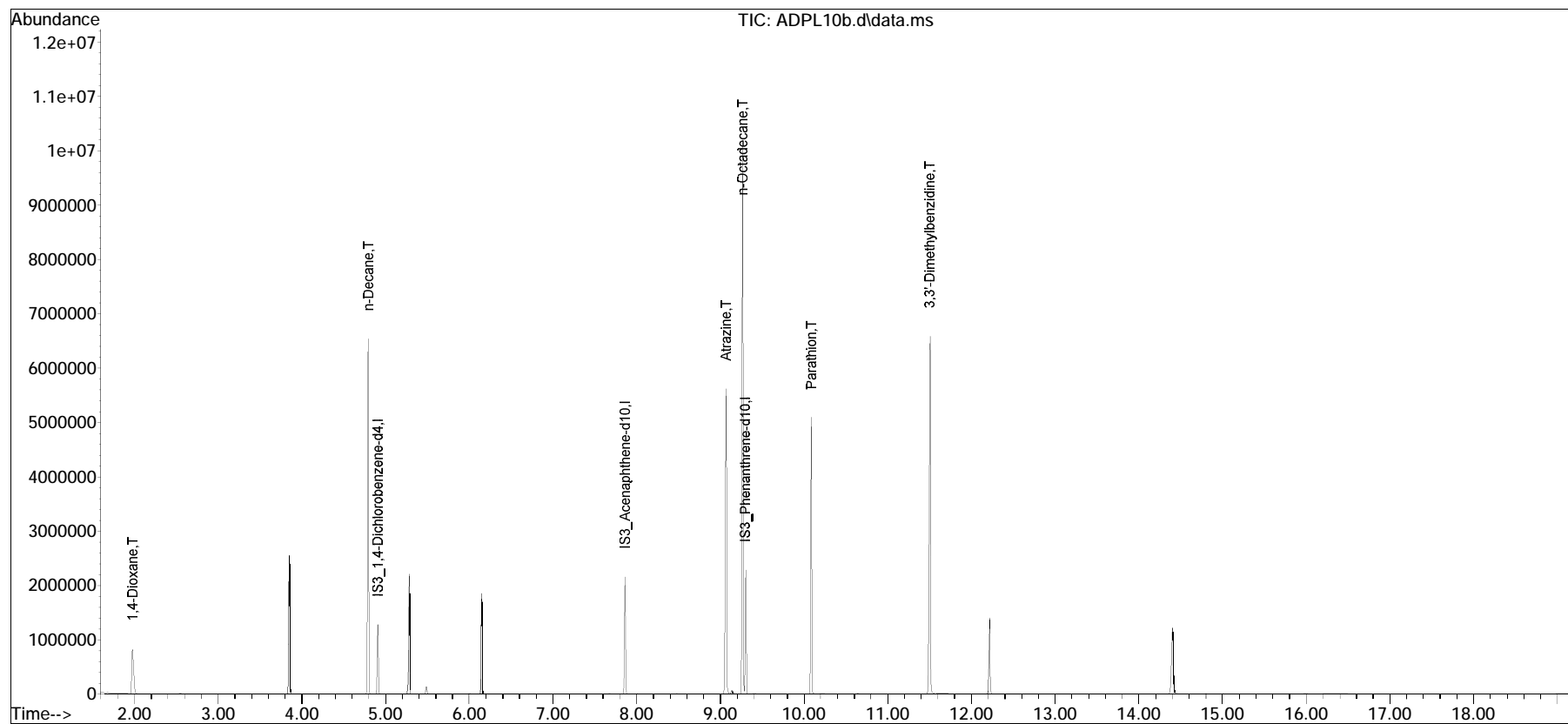
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : ADPL10b.d
Acq On : 16 May 2023 10:02 am
Operator : SV103:jg
Sample : IL21,32,,ADPL200 Lot# 10054
Misc : WG1779694,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 16 13:24:57 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 12:51:16 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL7b.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ADPL10b.d Operator : SV103:jg
Date Inj'd : 5/16/2023 10:02 am Instrument : SV103
Sample : IL21,32,,ADPL200 Lot# 1005Quant Date : 5/16/2023 12:53 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ADPL9b.d
 Acq On : 16 May 2023 10:25 am
 Operator : SV103:jg
 Sample : IL22,32,,ADPL150 Lot# 10055
 Misc : WG1779694,,
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 16 13:28:04 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ADPL7b.d
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.906	152	204621	40.000	ug/ml	0.00
Standard Area 1 = 191045			Recovery	=	107.11%	
86) IS3_Acenaphthene-d10	7.861	164	461409	40.000	ug/ml	0.00
Standard Area 1 = 368328			Recovery	=	125.27%	
100) IS3_Phenanthrene-d10	9.301	188	985981	40.000	ug/ml	0.00
Standard Area 1 = 772972			Recovery	=	127.56%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.973	88	328789	146.763	ug/ml#	82
34) n-Decane	4.792	57	957648	142.042	ug/ml	93
87) Atrazine	9.071	200	711995	162.944	ug/ml	99
101) n-Octadecane	9.264	57	1665718	162.527	ug/ml	94
102) Parathion	10.089	109	456673	191.176	ug/ml#	93
103) 3,3'-Dimethylbenzidine	11.498	212	2450017	139.676	ug/ml	97

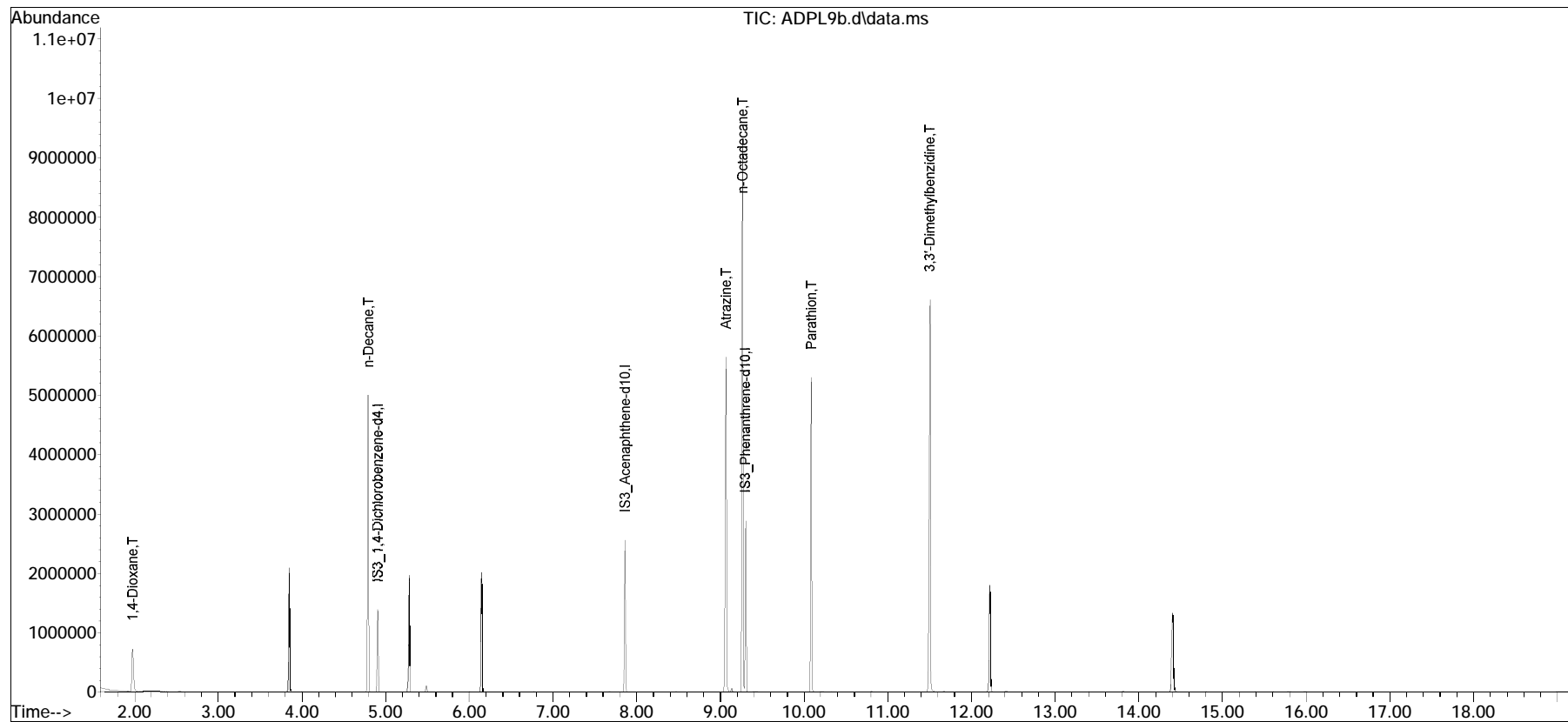
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : ADPL9b.d
Acq On : 16 May 2023 10:25 am
Operator : SV103:jg
Sample : IL22,32,,ADPL150 Lot# 10055
Misc : WG1779694,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 16 13:28:04 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 12:51:16 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL7b.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ADPL9b.d Operator : SV103:jg
Date Inj'd : 5/16/2023 10:25 am Instrument : SV103
Sample : IL22,32,,ADPL150 Lot# 1005Quant Date : 5/16/2023 12:53 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ADPL8b.d
 Acq On : 16 May 2023 10:49 am
 Operator : SV103:jg
 Sample : IL23,32,,ADPL100 Lot# 10056
 Misc : WG1779694,,
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: May 16 13:27:44 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ADPL7b.d
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.906	152	188852	40.000	ug/ml	0.00
Standard Area 1 = 191045			Recovery	=	98.85%	
86) IS3_Acenaphthene-d10	7.861	164	366452	40.000	ug/ml	0.00
Standard Area 1 = 368328			Recovery	=	99.49%	
100) IS3_Phenanthrene-d10	9.301	188	727864	40.000	ug/ml	0.00
Standard Area 1 = 772972			Recovery	=	94.16%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.976	88	207902	100.551	ug/ml#	83
34) n-Decane	4.789	57	612915	98.501	ug/ml	92
87) Atrazine	9.065	200	330359	95.196	ug/ml	98
101) n-Octadecane	9.264	57	818310	108.158	ug/ml	94
102) Parathion	10.086	109	191691	108.704	ug/ml#	93
103) 3,3'-Dimethylbenzidine	11.495	212	1293492	99.893	ug/ml	97

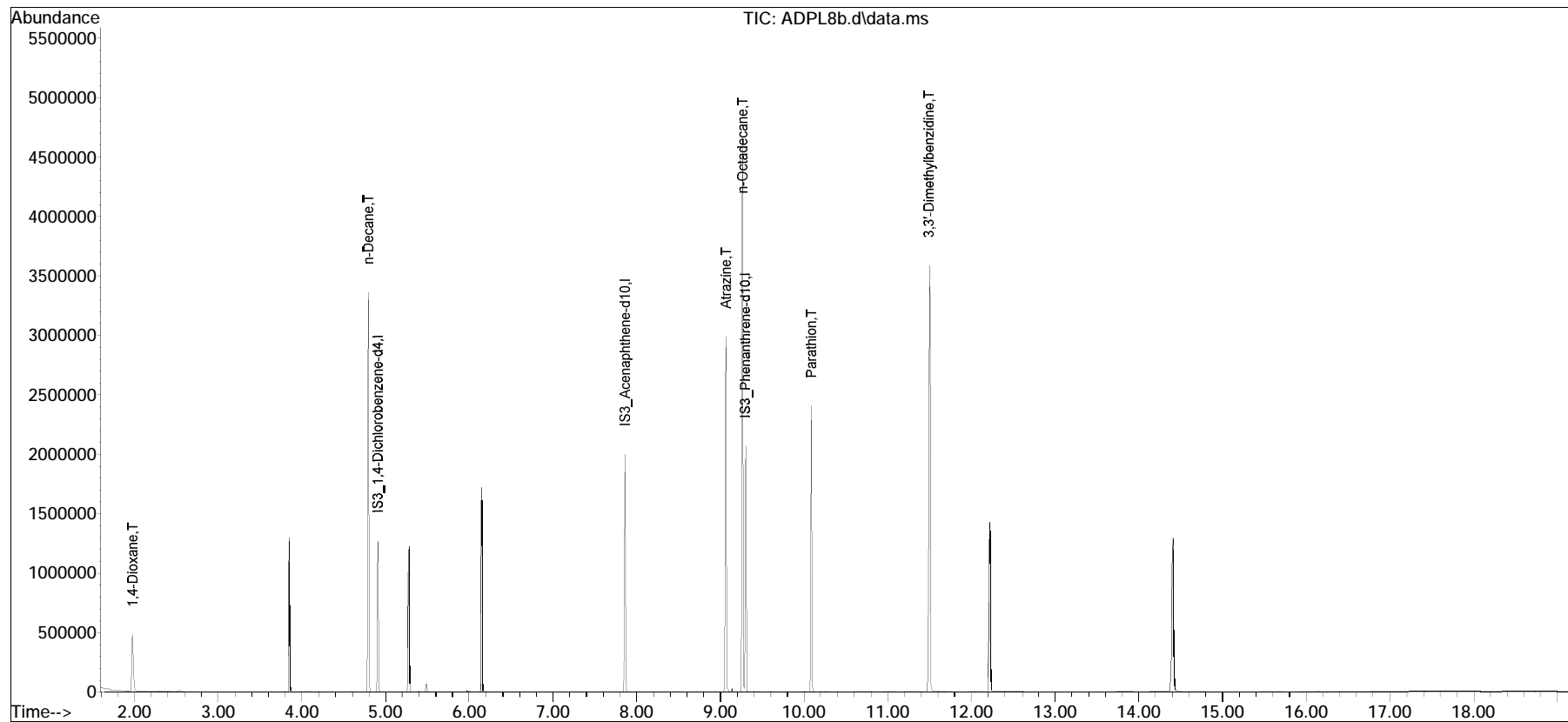
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : ADPL8b.d
Acq On : 16 May 2023 10:49 am
Operator : SV103:jg
Sample : IL23,32,,ADPL100 Lot# 10056
Misc : WG1779694,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: May 16 13:27:44 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 12:51:16 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL7b.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ADPL8b.d Operator : SV103:jg
Date Inj'd : 5/16/2023 10:49 am Instrument : SV103
Sample : IL23,32,,ADPL100 Lot# 1005Quant Date : 5/16/2023 12:53 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ADPL7b.d
 Acq On : 16 May 2023 11:12 am
 Operator : SV103:jg
 Sample : IL24,32,,ADPL50 Lot# 10057
 Misc : WG1779694,,
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 16 13:27:22 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ADPL7b.d
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.906	152	191045	40.000	ug/ml	0.00
Standard Area 1 = 191045			Recovery	=	100.00%	
86) IS3_Acenaphthene-d10	7.861	164	368328	40.000	ug/ml	0.00
Standard Area 1 = 368328			Recovery	=	100.00%	
100) IS3_Phenanthrene-d10	9.301	188	772972	40.000	ug/ml	0.00
Standard Area 1 = 772972			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.976	88	104582	50.000	ug/ml#	83
34) n-Decane	4.789	57	314735	50.000	ug/ml	92
87) Atrazine	9.063	200	174404	50.000	ug/ml	99
101) n-Octadecane	9.264	57	418514	52.088	ug/ml	94
102) Parathion	10.083	109	93635	50.000	ug/ml#	95
103) 3,3'-Dimethylbenzidine	11.492	212	687271	49.979	ug/ml	96

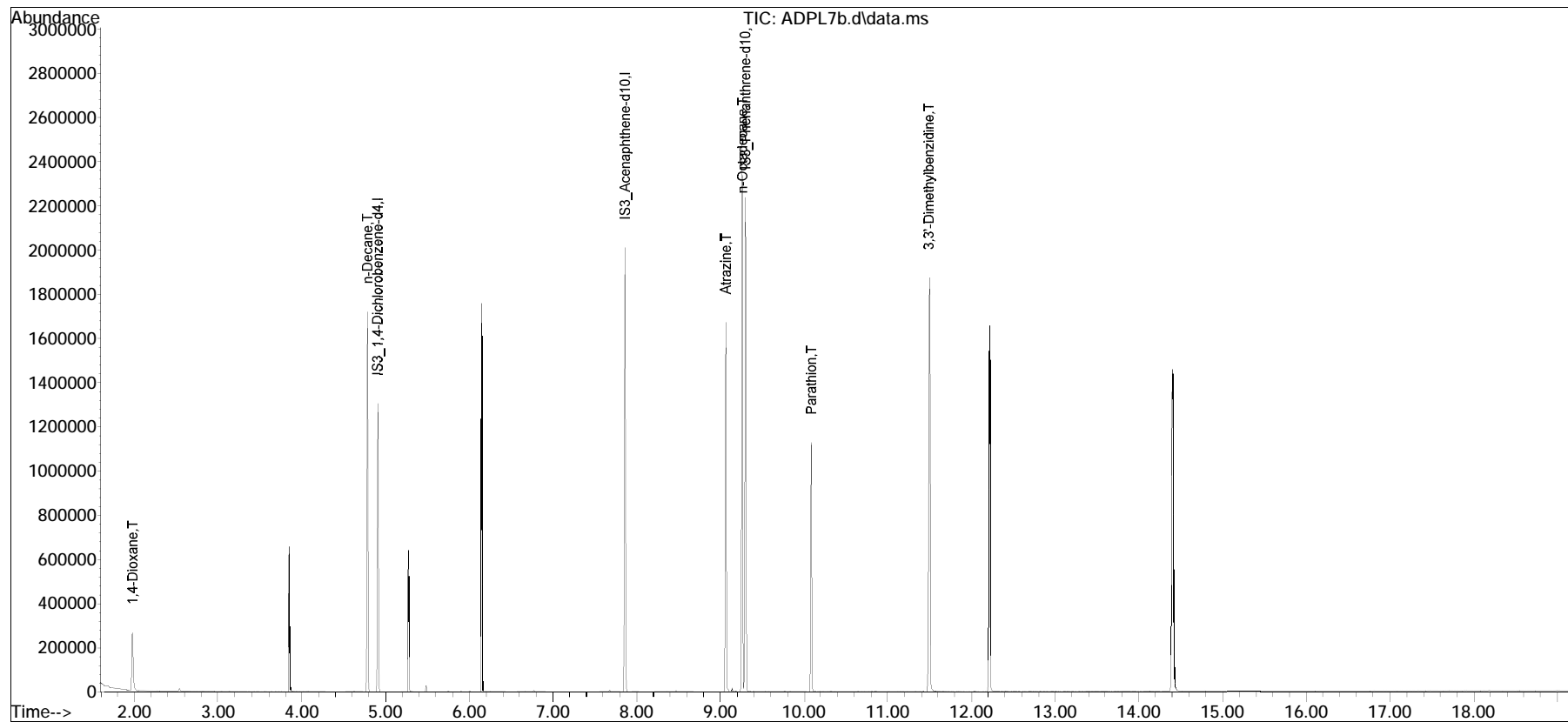
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : ADPL7b.d
Acq On : 16 May 2023 11:12 am
Operator : SV103:jg
Sample : IL24,32,,ADPL50 Lot# 10057
Misc : WG1779694,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 16 13:27:22 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 12:51:16 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL7b.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ADPL7b.d Operator : SV103:jg
Date Inj'd : 5/16/2023 11:12 am Instrument : SV103
Sample : IL24,32,,ADPL50 Lot# 10057 Quant Date : 5/16/2023 12:53 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ADPL6b.d
 Acq On : 16 May 2023 11:35 am
 Operator : SV103:jg
 Sample : IL25,32,,ADPL20 Lot# 10058
 Misc : WG1779694,,
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 16 13:27:01 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ADPL7b.d
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.906	152	163548	40.000	ug/ml	0.00
Standard Area 1 = 191045			Recovery	=	85.61%	
86) IS3_Acenaphthene-d10	7.861	164	317112	40.000	ug/ml	0.00
Standard Area 1 = 368328			Recovery	=	86.10%	
100) IS3_Phenanthrene-d10	9.301	188	643975	40.000	ug/ml	0.00
Standard Area 1 = 772972			Recovery	=	83.31%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.976	88	38124	21.291	ug/ml#	83
34) n-Decane	4.789	57	107772	20.000	ug/ml	90
87) Atrazine	9.060	200	51507	17.151	ug/ml	98
101) n-Octadecane	9.264	57	133017	19.871	ug/ml	94
102) Parathion	10.083	109	22311	14.300	ug/ml#	93
103) 3,3'-Dimethylbenzidine	11.489	212	184712	16.123	ug/ml	96

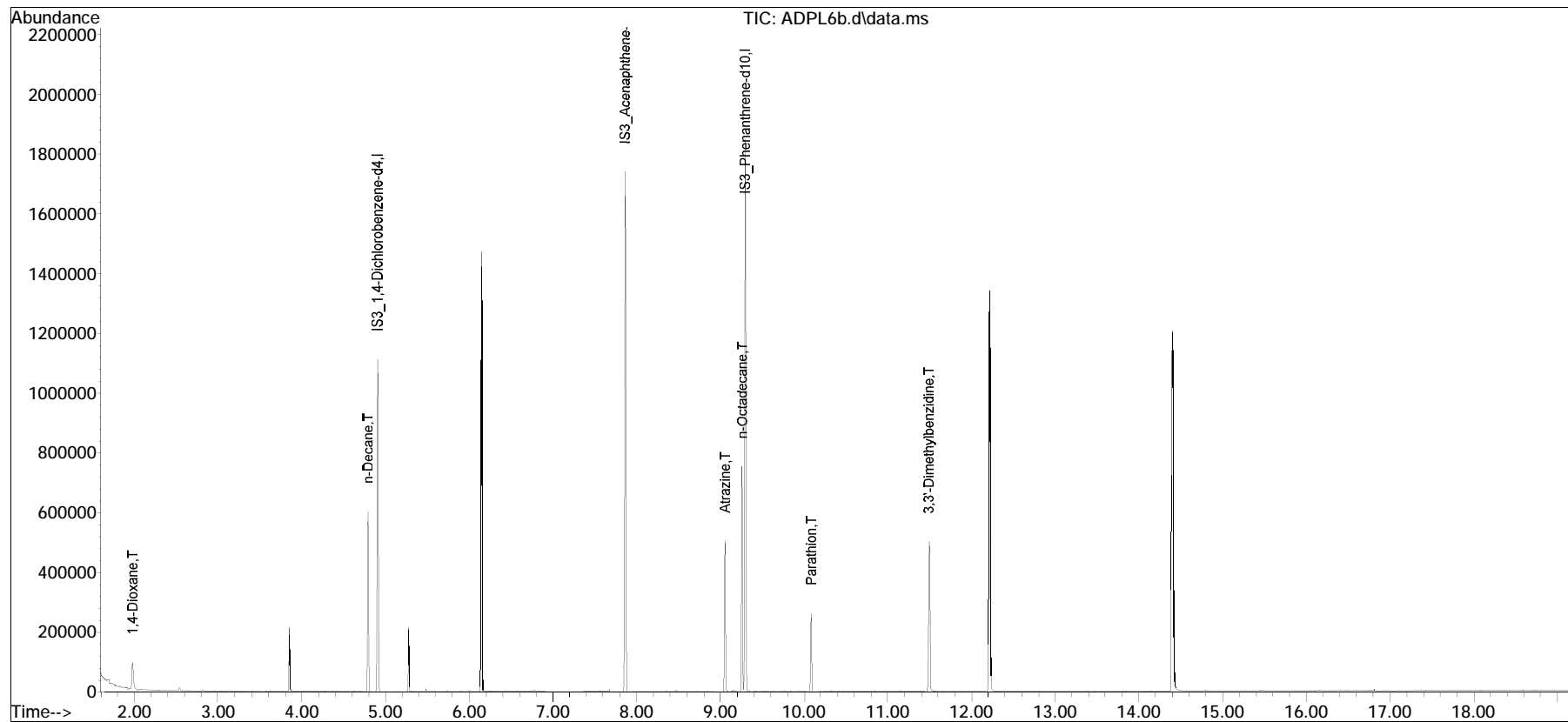
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : ADPL6b.d
Acq On : 16 May 2023 11:35 am
Operator : SV103:jg
Sample : IL25,32,,ADPL20 Lot# 10058
Misc : WG1779694,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 16 13:27:01 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 12:51:16 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL7b.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ADPL6b.d Operator : SV103:jg
Date Inj'd : 5/16/2023 11:35 am Instrument : SV103
Sample : IL25,32,,ADPL20 Lot# 10058 Quant Date : 5/16/2023 12:53 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ADPL5b.d
 Acq On : 16 May 2023 11:59 am
 Operator : SV103:jg
 Sample : IL26,32,,ADPL10 Lot# 10059
 Misc : WG1779694,,
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 16 13:26:30 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 12:51:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ADPL7b.d
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.906	152	166092	40.000	ug/ml	0.00
Standard Area 1 = 191045			Recovery	=	86.94%	
86) IS3_Acenaphthene-d10	7.861	164	328197	40.000	ug/ml	0.00
Standard Area 1 = 368328			Recovery	=	89.10%	
100) IS3_Phenanthrene-d10	9.301	188	648764	40.000	ug/ml	0.00
Standard Area 1 = 772972			Recovery	=	83.93%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.979	88	19694	10.830	ug/ml#	83
34) n-Decane	4.789	57	54372	9.935	ug/ml	91
87) Atrazine	9.057	200	23724	7.633	ug/ml	99
101) n-Octadecane	9.262	57	63062	9.351	ug/ml	94
102) Parathion	10.083	109	8735	5.557	ug/ml#	94
103) 3,3'-Dimethylbenzidine	11.489	212	73476	6.366	ug/ml#	96

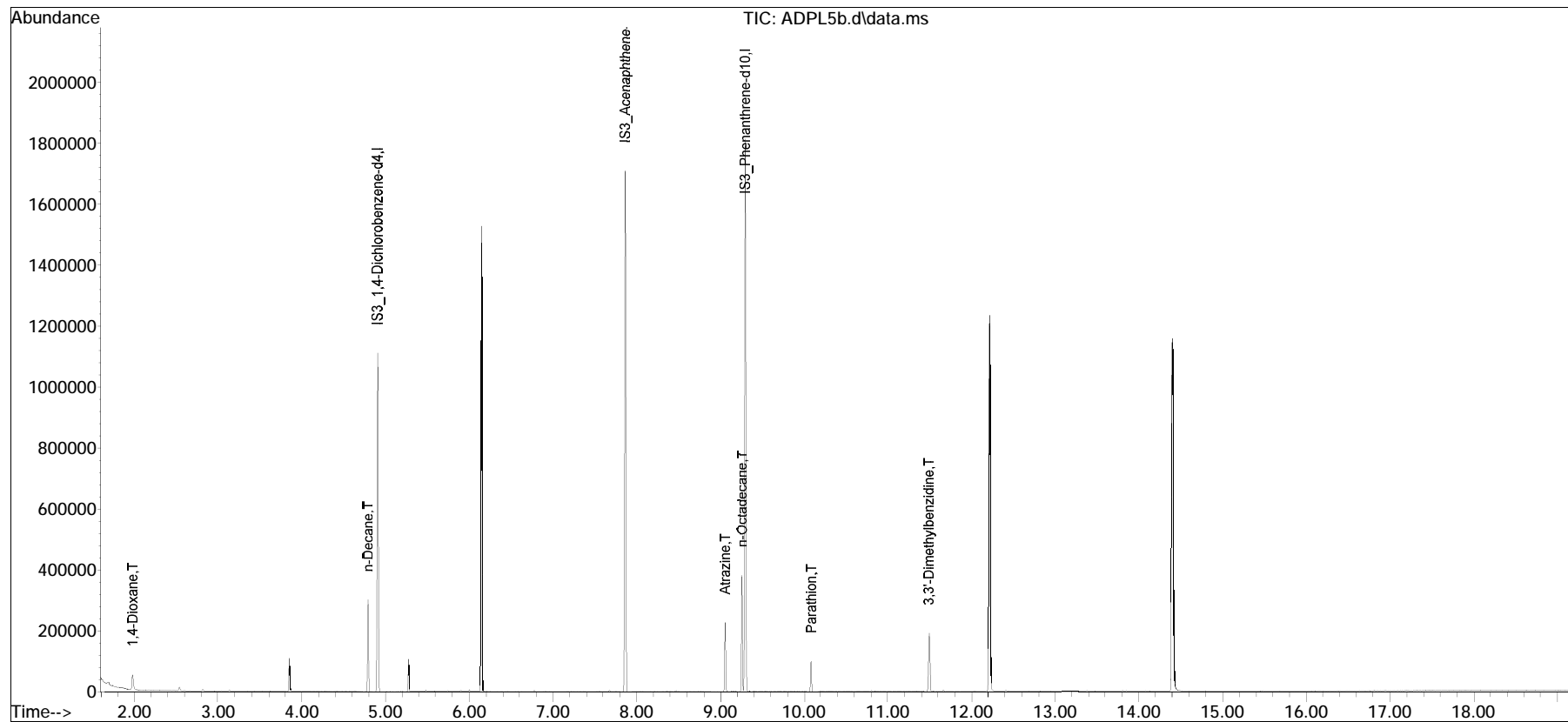
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : ADPL5b.d
Acq On : 16 May 2023 11:59 am
Operator : SV103:jg
Sample : IL26,32,,ADPL10 Lot# 10059
Misc : WG1779694,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 16 13:26:30 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 12:51:16 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL7b.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ADPL5b.d Operator : SV103:jg
Date Inj'd : 5/16/2023 11:59 am Instrument : SV103
Sample : IL26,32,,ADPL10 Lot# 10059 Quant Date : 5/16/2023 12:53 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ADPL4b.d
 Acq On : 16 May 2023 12:22 pm
 Operator : SV103:jg
 Sample : IL27,32,,ADPL5 Lot# 10060
 Misc : WG1779694,,
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: May 16 13:30:16 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:30:30 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ADPL7b.d
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.906	152	195742	40.000	ug/ml	0.00
Standard Area 1 = 191045			Recovery	=	102.46%	
86) IS3_Acenaphthene-d10	7.861	164	388124	40.000	ug/ml	0.00
Standard Area 1 = 368328			Recovery	=	105.37%	
100) IS3_Phenanthrene-d10	9.301	188	759631	40.000	ug/ml	0.00
Standard Area 1 = 772972			Recovery	=	98.27%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.982	88	11661	5.189	ug/ml	89
34) n-Decane	4.789	57	32143	5.065	ug/ml	91
87) Atrazine	9.057	200	13173	4.114	ug/ml	98
101) n-Octadecane	9.264	57	36046	4.602	ug/ml	94
102) Parathion	10.080	109	4851	5.622	ug/ml#	92
103) 3,3'-Dimethylbenzidine	11.489	212	36572	4.734	ug/ml	96

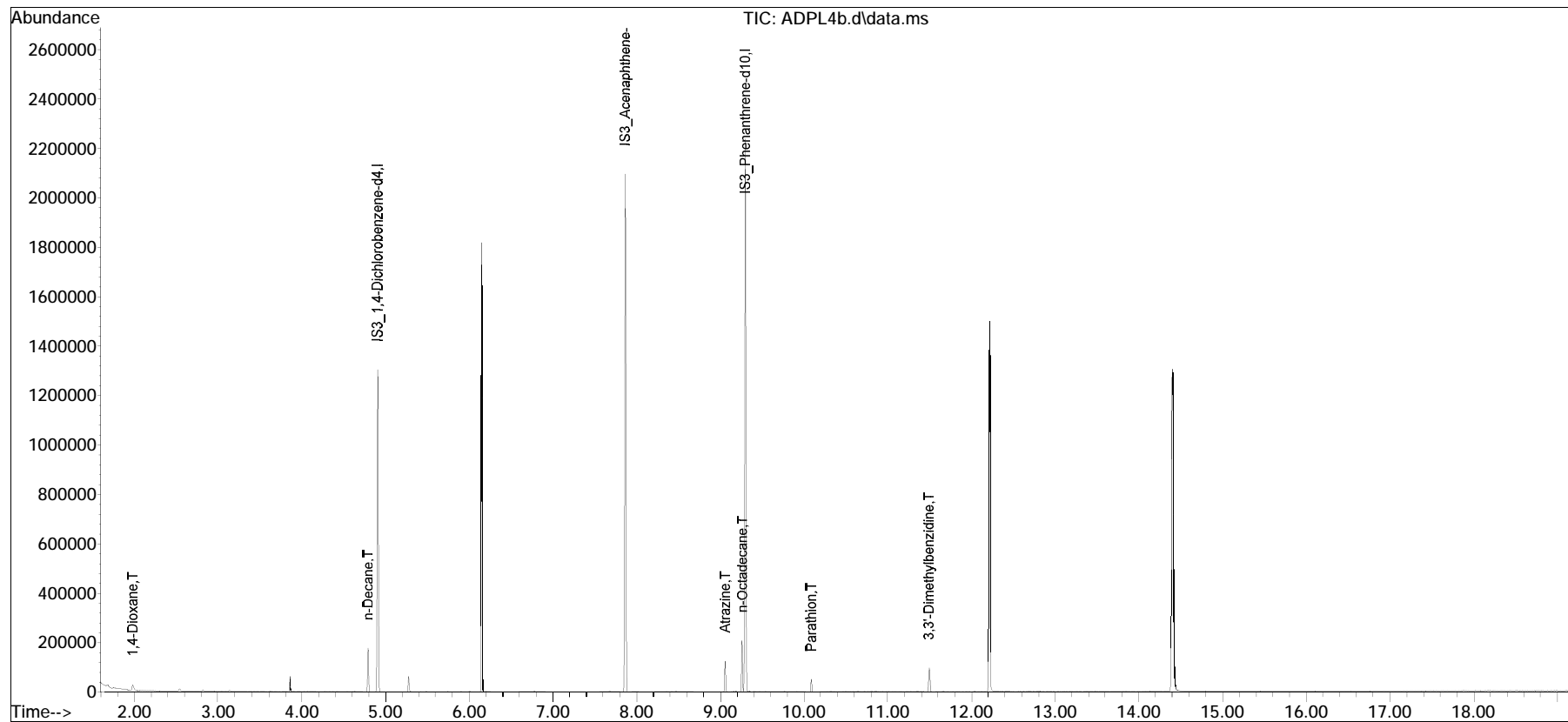
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : ADPL4b.d
Acq On : 16 May 2023 12:22 pm
Operator : SV103:jg
Sample : IL27,32,,ADPL5 Lot# 10060
Misc : WG1779694,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: May 16 13:30:16 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 13:30:30 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL7b.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ADPL4b.d Operator : SV103:jg
Date Inj'd : 5/16/2023 12:22 pm Instrument : SV103
Sample : IL27,32,,ADPL5 Lot# 10060 Quant Date : 5/16/2023 1:30 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ADPL3b.d
 Acq On : 16 May 2023 12:45 pm
 Operator : SV103:jg
 Sample : IL28,32,,ADPL3 Lot# 10061
 Misc : WG1779694,,
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: May 16 13:28:58 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:29:20 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ADPL7b.d
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.906	152	178350	40.000	ug/ml	0.00
Standard Area 1 = 191045			Recovery	=	93.35%	
86) IS3_Acenaphthene-d10	7.861	164	346504	40.000	ug/ml	0.00
Standard Area 1 = 368328			Recovery	=	94.07%	
100) IS3_Phenanthrene-d10	9.301	188	688349	40.000	ug/ml	0.00
Standard Area 1 = 772972			Recovery	=	89.05%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.982	88	6759	3.301	ug/ml	95
34) n-Decane	4.789	57	17145	2.965	ug/ml	91
87) Atrazine	9.057	200	6433	2.250	ug/ml	94
101) n-Octadecane	9.262	57	17084	2.407	ug/ml	93
102) Parathion	10.083	109	2395	5.568	ug/ml#	92
103) 3,3'-Dimethylbenzidine	11.489	212	17527	3.387	ug/ml#	95

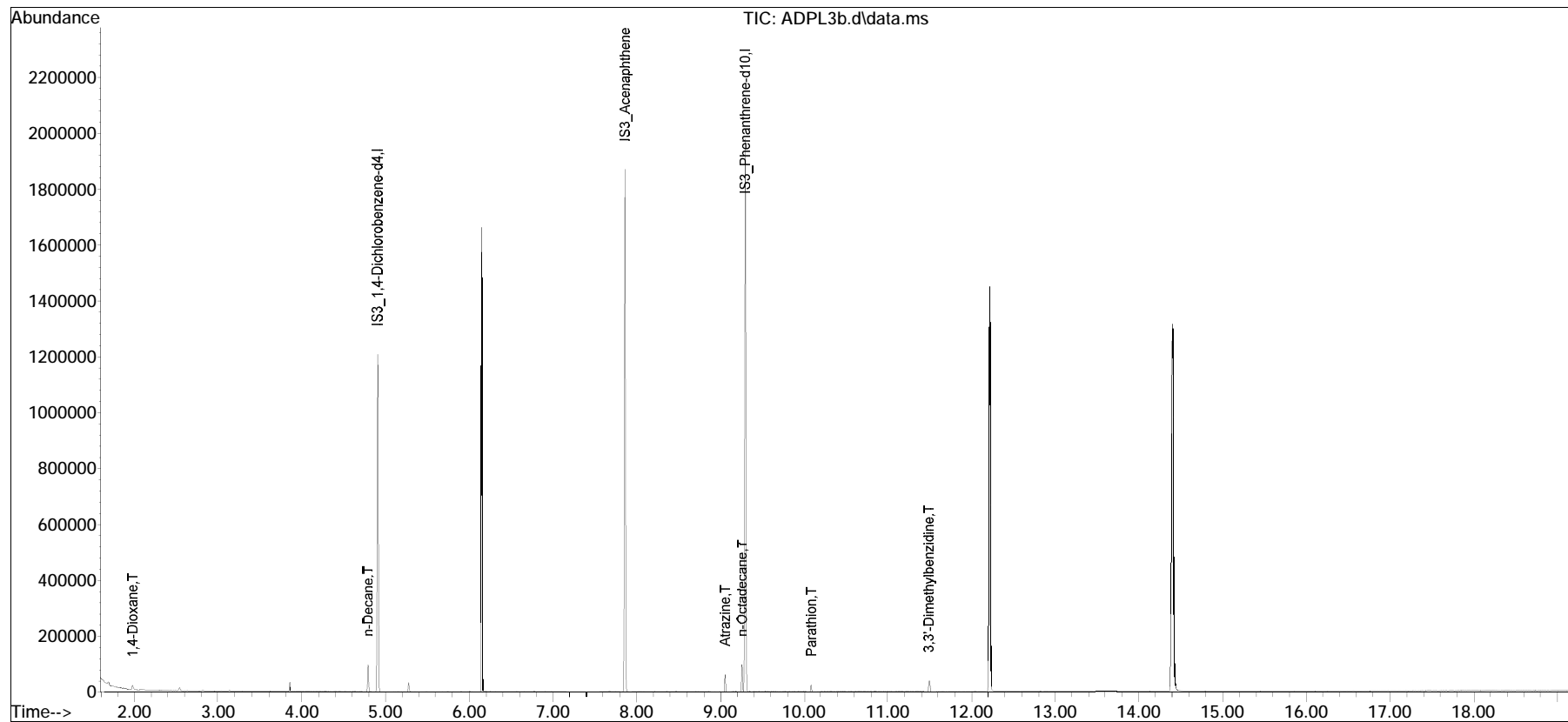
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : ADPL3b.d
Acq On : 16 May 2023 12:45 pm
Operator : SV103:jg
Sample : IL28,32,,ADPL3 Lot# 10061
Misc : WG1779694,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: May 16 13:28:58 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 13:29:20 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL7b.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ADPL3b.d Operator : SV103:jg
Date Inj'd : 5/16/2023 12:45 pm Instrument : SV103
Sample : IL28,32,,ADPL3 Lot# 10061 Quant Date : 5/16/2023 1:29 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ADPL2b.d
 Acq On : 16 May 2023 1:09 pm
 Operator : SV103:jg
 Sample : IL29,32,,ADPL2 Lot# 10062
 Misc : WG1779694,,
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: May 16 13:30:47 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:30:24 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ADPL7b.d
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.906	152	190589	40.000	ug/ml	0.00
Standard Area 1 = 191045			Recovery	=	99.76%	
86) IS3_Acenaphthene-d10	7.861	164	363990	40.000	ug/ml	0.00
Standard Area 1 = 368328			Recovery	=	98.82%	
100) IS3_Phenanthrene-d10	9.301	188	711992	40.000	ug/ml	0.00
Standard Area 1 = 772972			Recovery	=	92.11%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.976	88	4026	1.840	ug/ml#	75
34) n-Decane	4.789	57	12198	1.974	ug/ml	89
87) Atrazine	9.060	200	4285	1.427	ug/ml	95
101) n-Octadecane	9.262	57	11498	1.566	ug/ml	96
102) Parathion	10.080	109	1551	3.580	ug/ml#	92
103) 3,3'-Dimethylbenzidine	11.489	212	10258	2.730	ug/ml	97

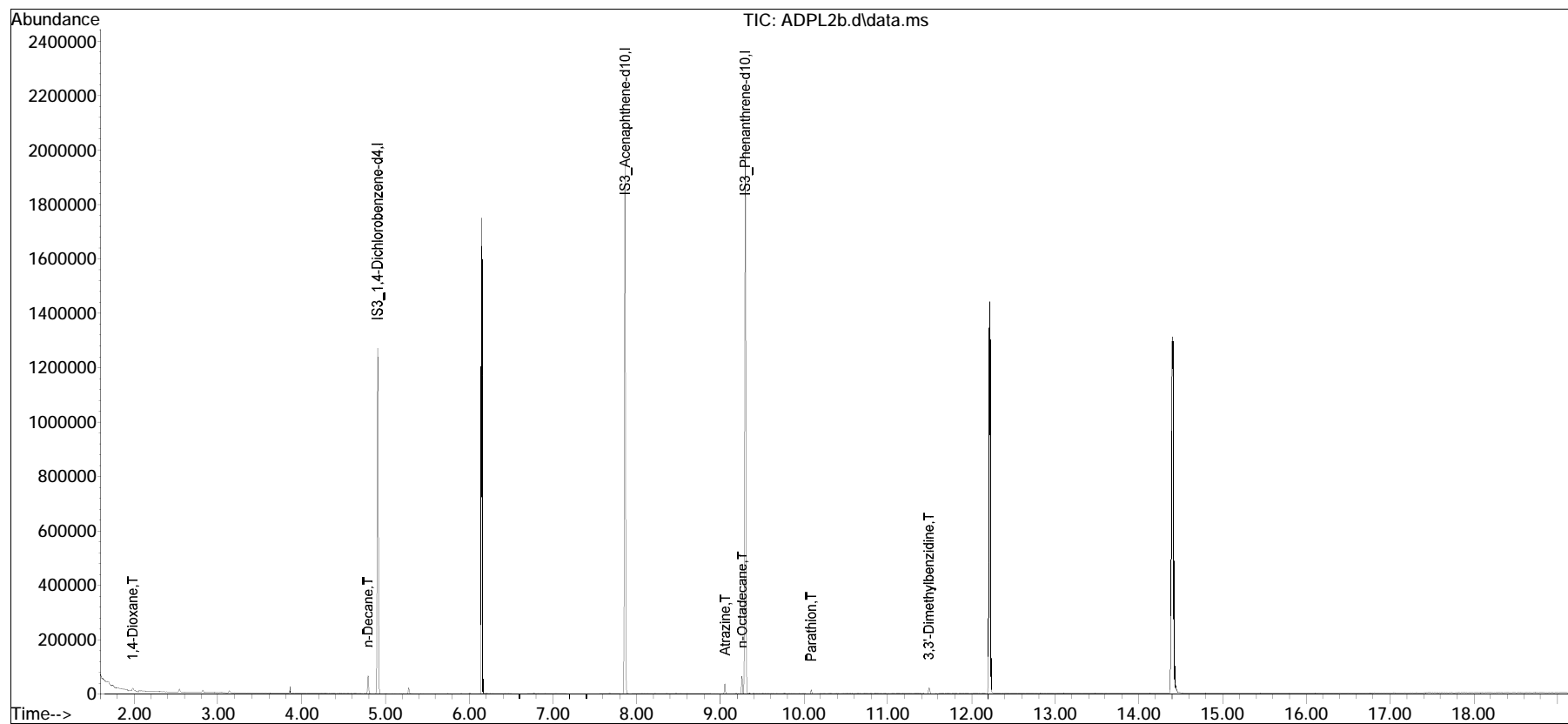
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : ADPL2b.d
Acq On : 16 May 2023 1:09 pm
Operator : SV103:jg
Sample : IL29,32,,ADPL2 Lot# 10062
Misc : WG1779694,,
ALS Vial : 31 Sample Multiplier: 1

Quant Time: May 16 13:30:47 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 13:30:24 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL7b.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ADPL2b.d Operator : SV103:jg
Date Inj'd : 5/16/2023 1:09 pm Instrument : SV103
Sample : IL29,32,,ADPL2 Lot# 10062 Quant Date : 5/16/2023 1:30 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ADPL1b.d
 Acq On : 16 May 2023 1:32 pm
 Operator : SV103:jg
 Sample : IL30,32,,ADPL1 Lot# 10063
 Misc : WG1779694,,
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: May 16 13:57:58 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:31:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ADPL7b.d
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.906	152	177645	40.000	ug/ml	0.00
Standard Area 1 = 191045			Recovery	=	92.99%	
86) IS3_Acenaphthene-d10	7.861	164	369011	40.000	ug/ml	0.00
Standard Area 1 = 368328			Recovery	=	100.19%	
100) IS3_Phenanthrene-d10	9.301	188	731560	40.000	ug/ml	0.00
Standard Area 1 = 772972			Recovery	=	94.64%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.985	88	1206	0.597	ug/ml#	74
34) n-Decane	0.000		0	N.D.	d	
87) Atrazine	0.000		0	N.D.	d	
101) n-Octadecane	0.000		0	N.D.	d	
102) Parathion	0.000		0	N.D.	d	
103) 3,3'-Dimethylbenzidine	0.000		0	N.D.	d	

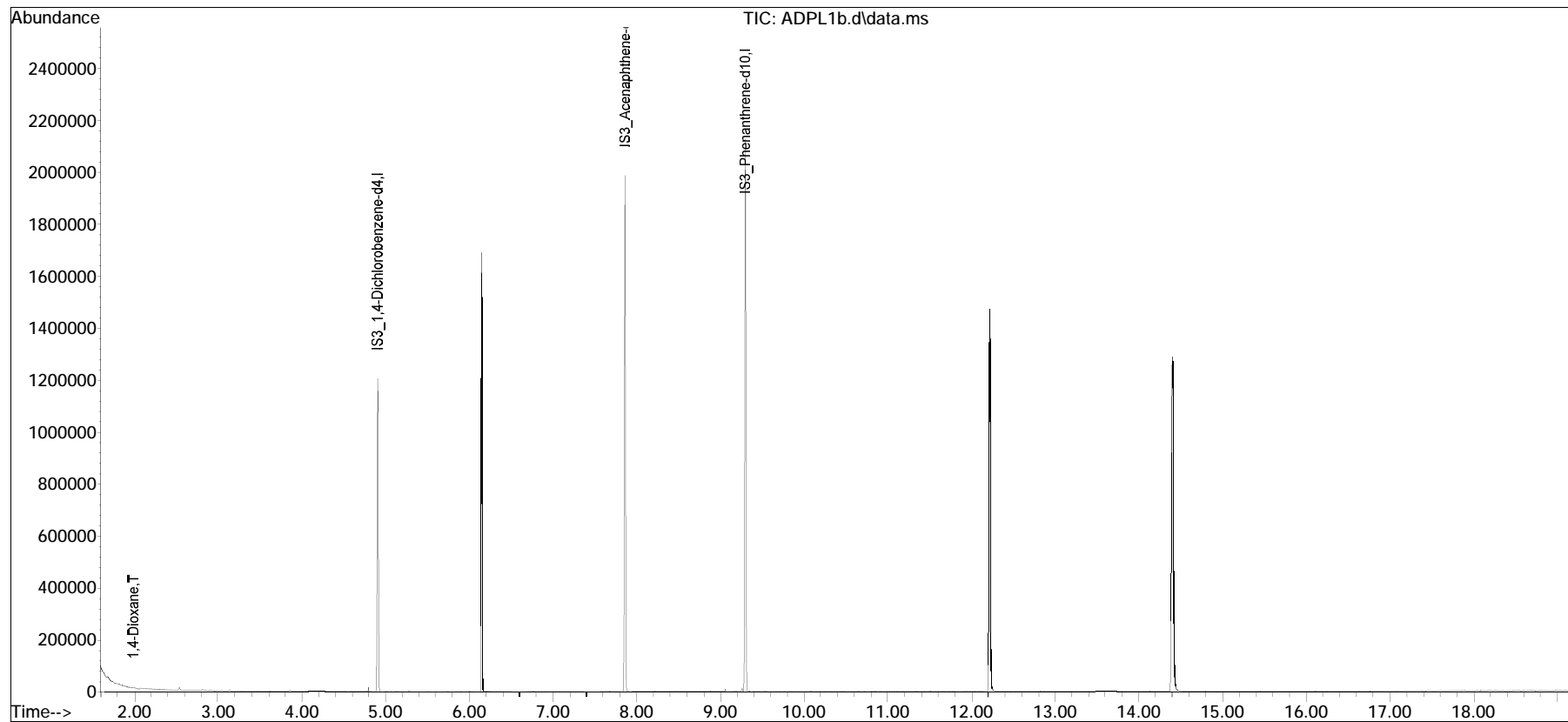
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : ADPL1b.d
Acq On : 16 May 2023 1:32 pm
Operator : SV103:jg
Sample : IL30,32,,ADPL1 Lot# 10063
Misc : WG1779694,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: May 16 13:57:58 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 13:31:26 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL7b.d•



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ADPL1b.d Operator : SV103:jg
Date Inj'd : 5/16/2023 1:32 pm Instrument : SV103
Sample : IL30,32,,ADPL1 Lot# 10063 Quant Date : 5/16/2023 1:57 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\230515nical\
 Data File : ADPICVb.d
 Acq On : 16 May 2023 1:55 pm
 Operator : SV103:jg
 Sample : CQICV3,32,,ADPICV Lot# 10064
 Misc : WG1779694,,
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: May 16 14:16:33 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:58:31 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32 I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
33 T	1,4-Dioxane	0.464	0.425	8.4	91	0.00
34 T	n-Decane	1.295	1.229	5.1	87	0.00
86 I	IS3_Acenaphthene-d10	1.000	1.000	0.0	102	0.00
87 T	Atrazine	0.320	0.290	9.4	78	0.00
100 I	IS3_Phenanthrene-d10	1.000	1.000	0.0	97	0.00
101 T	n-Octadecane	0.402	0.385	4.2	86	0.00
102 T	Parathion	* 50.000	38.337	23.3#	66	0.00
103 T	3,3'-Dimethylbenzidine	* 50.000	41.433	17.1	73	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
 Data File : ADPICVb.d
 Acq On : 16 May 2023 1:55 pm
 Operator : SV103:jg
 Sample : CQICV3,32,,ADPICV Lot# 10064
 Misc : WG1779694,,
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: May 16 14:16:33 2023
 Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 16 13:58:31 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\230515nical\ADPL7b.d
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.906	152	179158	40.000	ug/ml	0.00
Standard Area 1 = 191045			Recovery	=	93.78%	
86) IS3_Acenaphthene-d10	7.861	164	374241	40.000	ug/ml	0.00
Standard Area 1 = 368328			Recovery	=	101.61%	
100) IS3_Phenanthrene-d10	9.301	188	750159	40.000	ug/ml	0.00
Standard Area 1 = 772972			Recovery	=	97.05%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.976	88	95071	45.753	ug/ml#	84
34) n-Decane	4.789	57	275295	47.461	ug/ml	92
87) Atrazine	9.063	200	135683	45.390	ug/ml	98
101) n-Octadecane	9.265	57	361061	47.836	ug/ml	94
102) Parathion	10.086	109	61729	38.337	ug/ml#	93
103) 3,3'-Dimethylbenzidine	11.492	212	499580	41.433	ug/ml	95

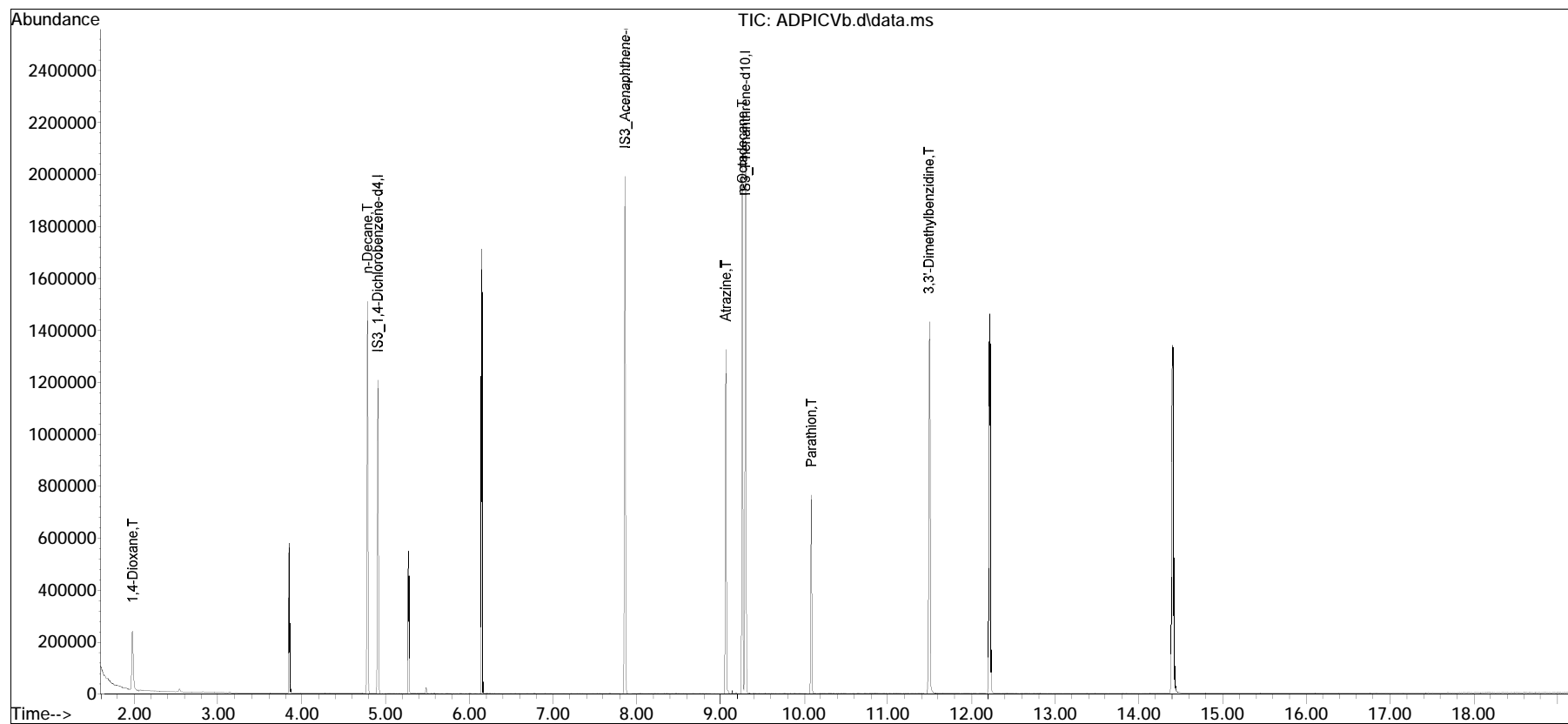
(#) = qualifier out of range (m) = manual integration (+) = signals summed

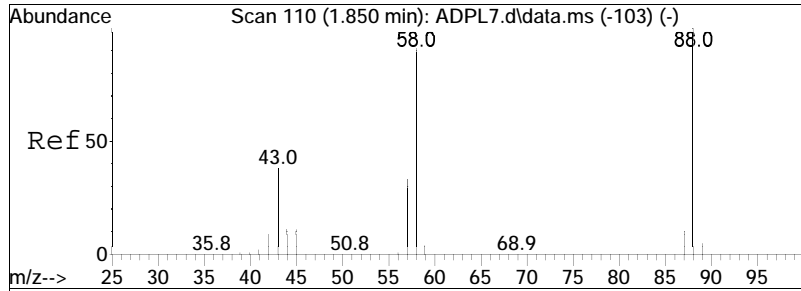
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230515nical\
Data File : ADPICVb.d
Acq On : 16 May 2023 1:55 pm
Operator : SV103:jg
Sample : CQICV3,32,,ADPICV Lot# 10064
Misc : WG1779694,,
ALS Vial : 33 Sample Multiplier: 1

Quant Time: May 16 14:16:33 2023
Quant Method : I:\8270\SV103\230515nical\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 16 13:58:31 2023
Response via : Initial Calibration

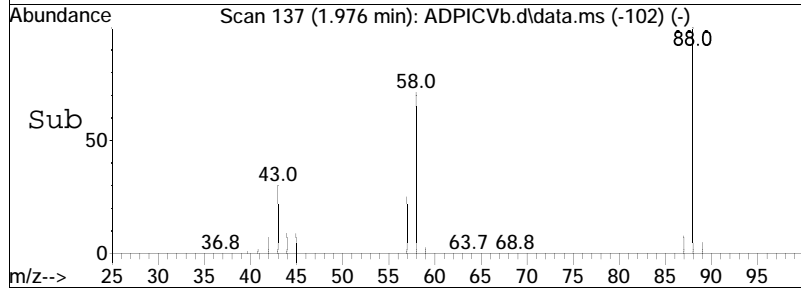
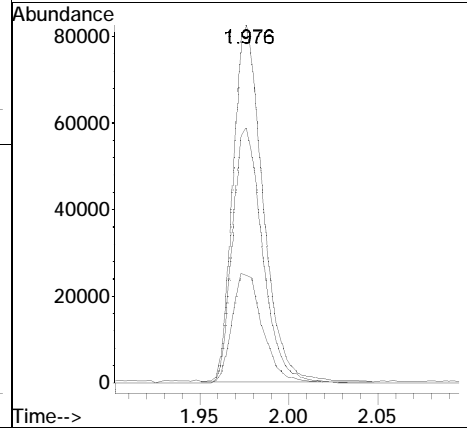
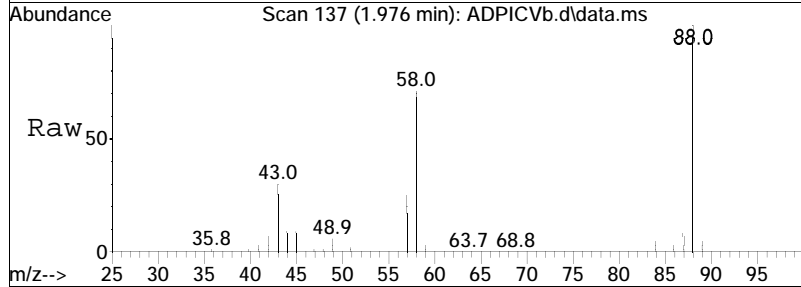
Sub List : ADPical_REV2 - ADP sublistcal\ADPL7b.d•

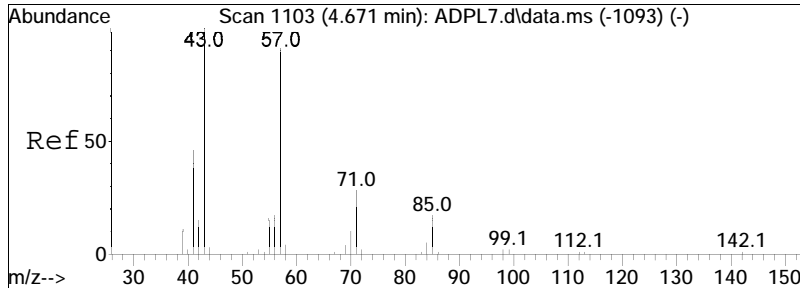




#33
 1,4-Dioxane
 Concen: 45.75 ug/ml
 RT: 1.976 min Scan# 137
 Delta R.T. 0.000 min
 Lab File: ADPICVb.d
 Acq: 16 May 2023 1:55 pm

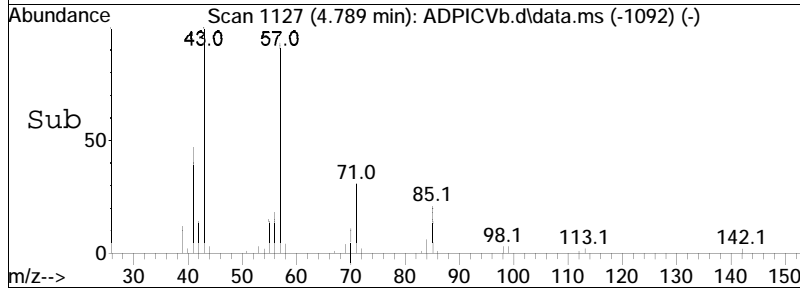
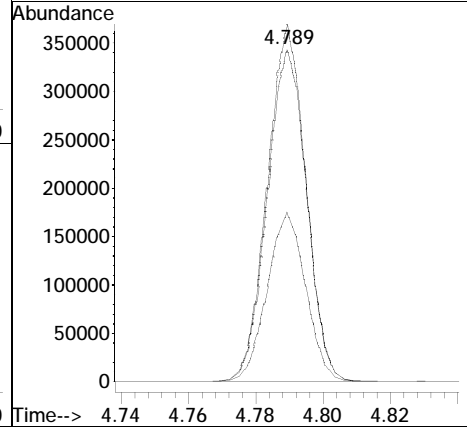
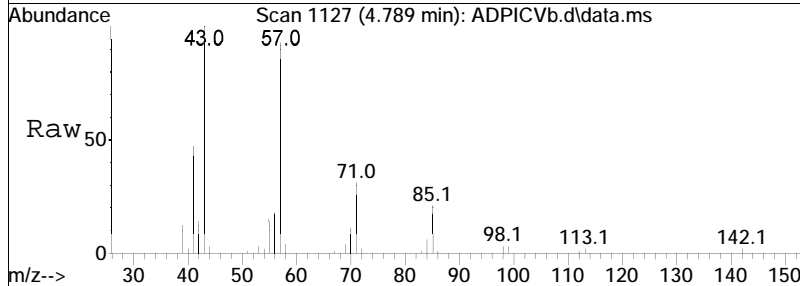
Tgt Ion	Ratio	Lower	Upper
88	100		
58	71.6	44.8	67.2#
43	31.5	22.4	33.6

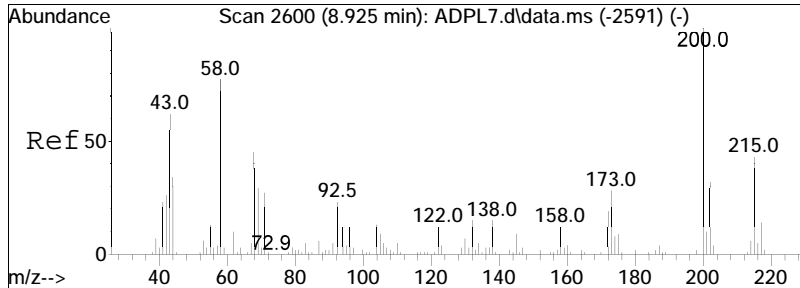




#34
 n-Decane
 Concen: 47.46 ug/ml
 RT: 4.789 min Scan# 1127
 Delta R.T. 0.000 min
 Lab File: ADPICVb.d
 Acq: 16 May 2023 1:55 pm

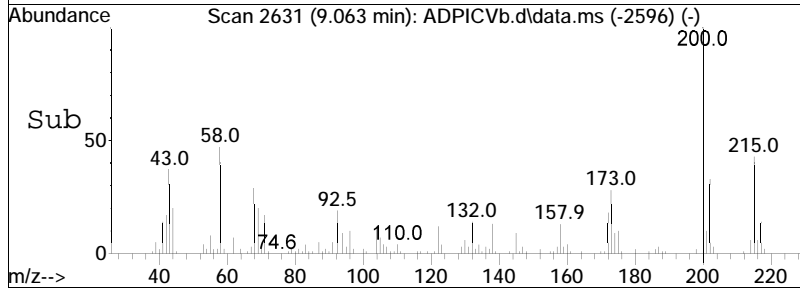
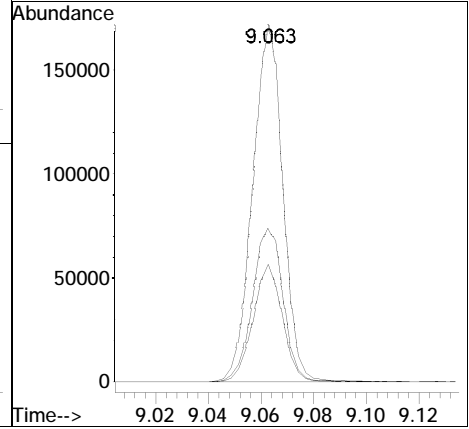
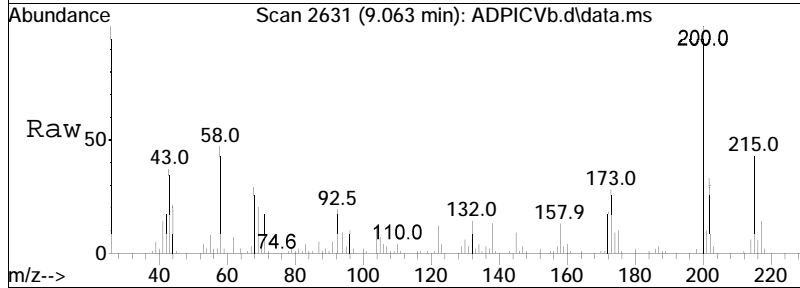
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
43	105.5	77.9	116.9
41	50.3	36.9	55.3

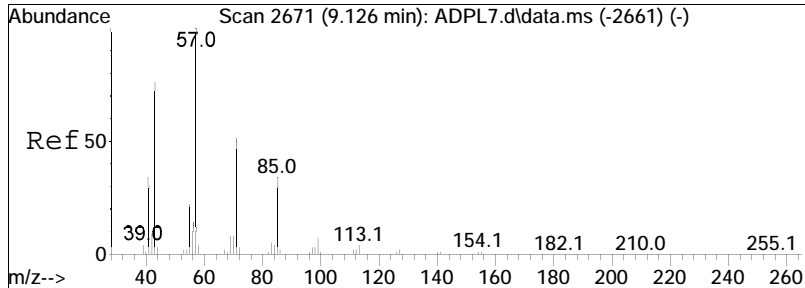




#87
 Atrazine
 Concen: 45.39 ug/ml
 RT: 9.063 min Scan# 2631
 Delta R.T. -0.000 min
 Lab File: ADPICVb.d
 Acq: 16 May 2023 1:55 pm

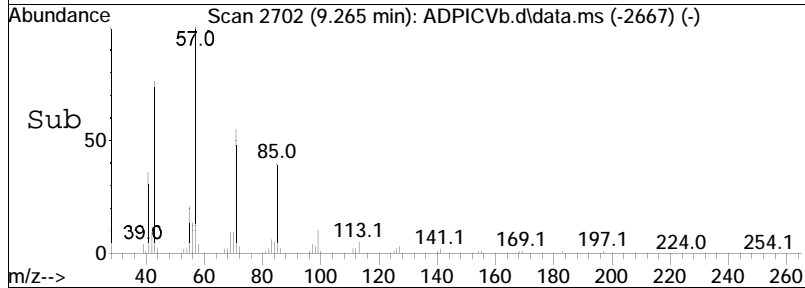
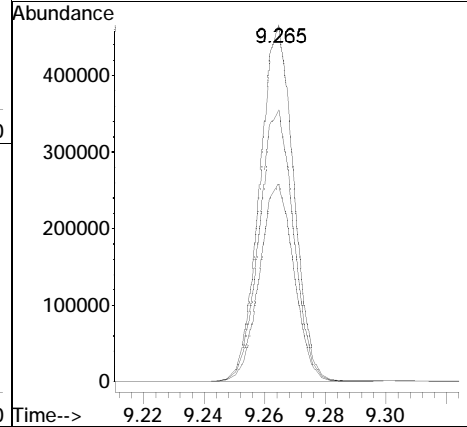
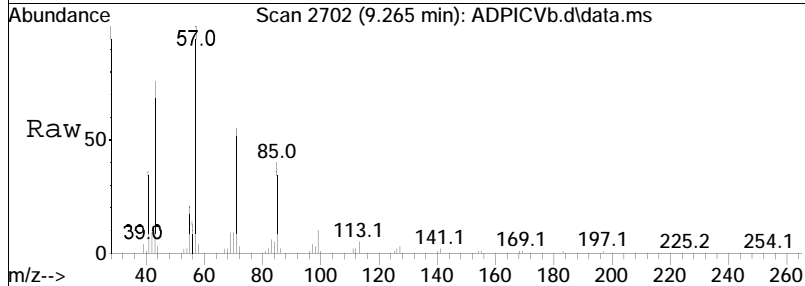
Tgt Ion	Ratio	Lower	Upper
200	100		
202	32.1	24.9	37.3
215	43.8	34.0	51.0

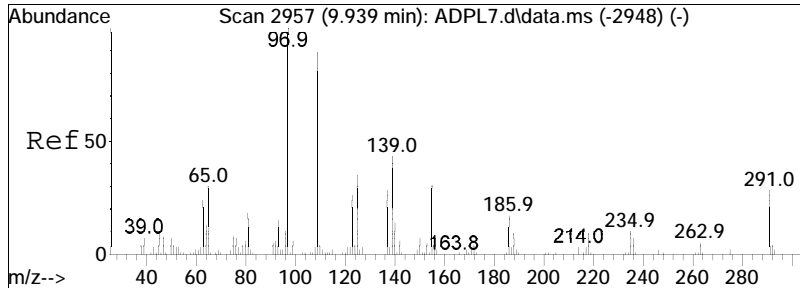




#101
 n-Octadecane
 Concen: 47.84 ug/ml
 RT: 9.265 min Scan# 2702
 Delta R.T. 0.001 min
 Lab File: ADPICVb.d
 Acq: 16 May 2023 1:55 pm

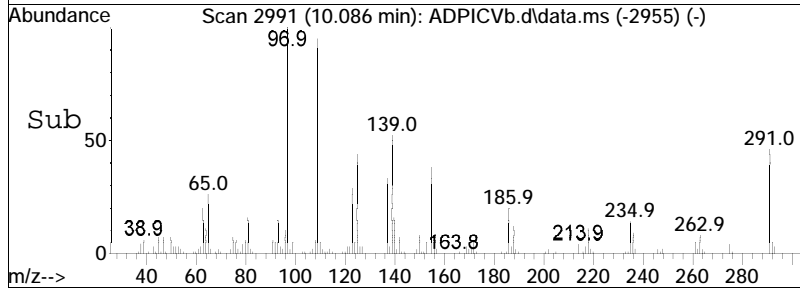
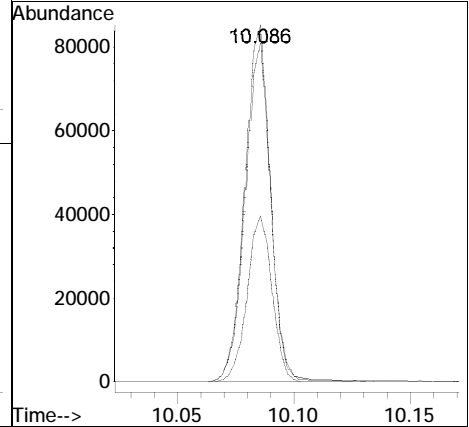
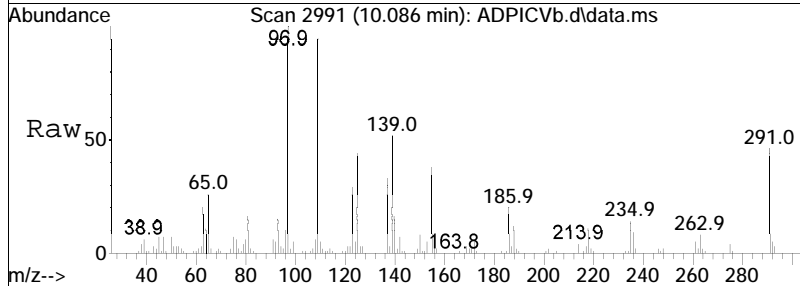
Tgt Ion	Resp	Lower	Upper
57	100		
43	77.2	56.7	85.1
71	56.3	42.8	64.2

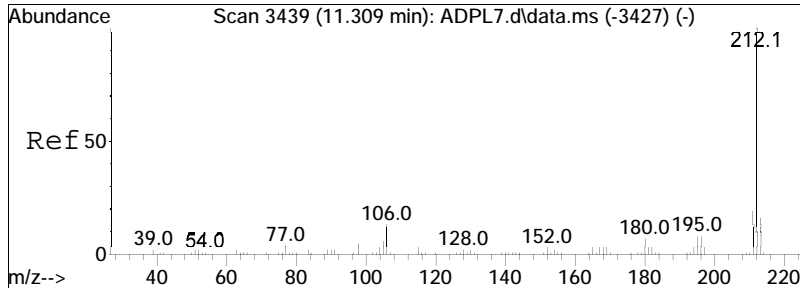




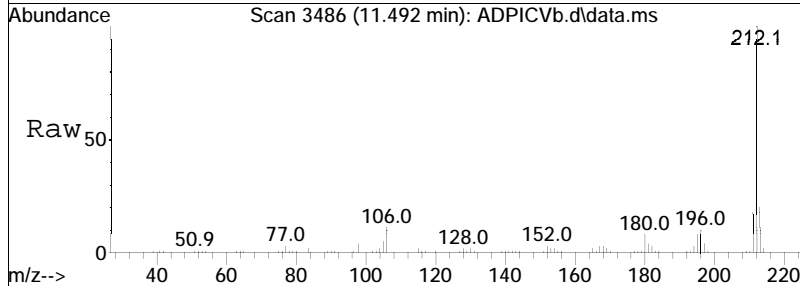
#102
 Parathion
 Concen: 38.34 ug/ml
 RT: 10.086 min Scan# 2991
 Delta R.T. 0.003 min
 Lab File: ADPICVb.d
 Acq: 16 May 2023 1:55 pm

Tgt Ion	109	Resp:	61729
Ion Ratio	Lower	Upper	
109	100		
97	104.0	85.8	128.8
291	47.6	29.8	44.8#

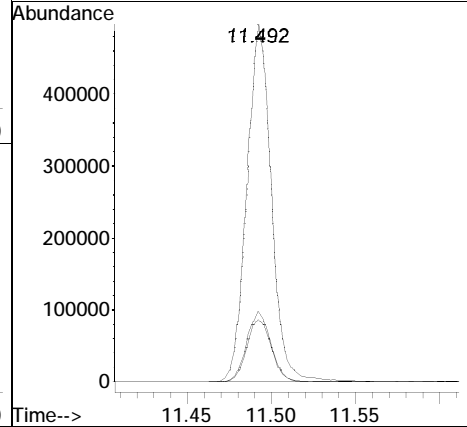
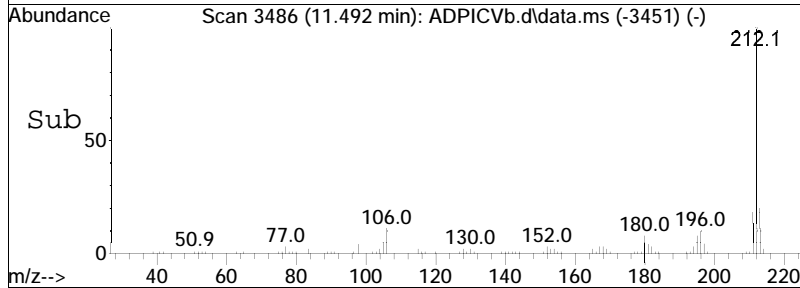




#103
 3,3'-Dimethylbenzidine
 Concen: 41.43 ug/ml
 RT: 11.492 min Scan# 3486
 Delta R.T. 0.000 min
 Lab File: ADPICVb.d
 Acq: 16 May 2023 1:55 pm



Tgt Ion	Ratio	Lower	Upper
212	100		
211	17.9	13.5	20.3
213	19.7	13.4	20.0



Manual Integration Report

Data Path : I:\8270\SV103\230515nical\QMethod : FS230515nSV103.m
Data File : ADPICVb.d Operator : SV103:jg
Date Inj'd : 5/16/2023 1:55 pm Instrument : SV103
Sample : CQICV3,32,,ADPICV Lot# 100Quant Date : 5/16/2023 2:16 pm

There are no manual integrations or false positives in this file.

Method Path : I:\8270\SV103\230515nical\
 Method File : FS230515nSV103.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Tue May 16 15:00:26 2023

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
37	T Benzoic Acid	L	ug/ml	50.0	49.687	-0.6	5.00	5.749	15.0
50	T 1,3-Dinitrobenzene	L	ug/ml	50.0	50.983	2.0	2.00	2.379	18.9
66	T 2,4-Dinitrophenol	L	ug/ml	50.0	48.919	-2.2	5.00	5.901	18.0
76	T 4,6-Dinitro-o-cresol	L	ug/ml	50.0	48.373	-3.3	3.00	3.762	25.4
82	T Pentachlorophenol	L	ug/ml	50.0	49.114	-1.8	3.00	3.672	22.4
97	T Butyl benzyl phthalate	L	ug/ml	50.0	51.139	2.3	3.00	3.553	18.4
102	T Parathion	Q	ug/ml	50.0	52.873	5.7	5.00	5.622	12.4
103	T 3,3'-Dimethylbenzidine	L	ug/ml	50.0	54.689	9.4	3.00	3.387	12.9
108	T Bis(2-ethylhexyl)phthalate	L	ug/ml	50.0	50.992	2.0	2.00	2.401	20.0
109	T Di-n-octylphthalate	L	ug/ml	50.0	50.014	0.0	3.00	3.798	26.6

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
37	T Benzoic Acid	Linear	0.998690	0.000000	0.240966	-0.0223531
50	T 1,3-Dinitrobenzene	Linear	0.997787	0.000000	0.118953	-0.00381549
66	T 2,4-Dinitrophenol	Linear	0.997811	0.000000	0.166618	-0.0149162
76	T 4,6-Dinitro-o-cresol	Linear	0.997192	0.000000	0.208117	-0.0119882
82	T Pentachlorophenol	Linear	0.996979	0.000000	0.308295	-0.0142957
97	T Butyl benzyl phthalate	Linear	0.997977	0.000000	0.56526	-0.0263355
102	T Parathion	Quadratic	0.998642	0.011942	0.0796782	-0.00504837
103	T 3,3'-Dimethylbenzidine	Linear	0.996146	0.000000	0.67339	-0.0315528
108	T Bis(2-ethylhexyl)phthalate	Linear	0.997759	0.000000	0.974742	-0.0346248
109	T Di-n-octylphthalate	Linear	0.996866	0.000000	1.68164	-0.101636

Response Factor Report SV124

Method Path : I:\8270\SV124\230526ical\
 Method File : FS230526SV124.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed May 31 17:31:38 2023
 Response Via : Initial Calibration

Calibration Files

1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =AP9L6.D 50 =AP9L7.D
 100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
1) I IS1_1,4-Dichlorobenzene-d4	-----ISTD-----											
2) t N-Nitrosodimethylamine	0.593	0.585	0.606	0.629	0.680	0.713	0.735	0.751	0.802	0.890	0.698	14.27
3) t Pyridine		0.687	0.837	1.146	0.988	1.161	1.228	1.290	1.349		*L	0.9980
4) S 2-Fluorophenol	0.820	0.909	0.943	1.017	1.052	1.076	1.157	1.159	1.225	1.358	1.072	14.93
5) T Aniline	1.509	1.635	1.618	1.689	1.735	1.792	1.885	1.940	2.057	2.239	1.810	12.31
6) t 2-Chlorophenol	1.088	1.100	1.145	1.226	1.233	1.260	1.351	1.312	1.415	1.535	1.267	11.19
7) S Phenol-d6	1.121	1.163	1.310	1.281	1.342	1.384	1.498	1.507	1.627	1.764	1.400	14.38
8) T Phenol	1.119	1.253	1.299	1.362	1.469	1.538	1.643	1.663	1.795	2.000	1.514	17.76
9) T bis(2-Chloroethyl)ether	1.131	1.248	1.188	1.067	1.171	1.170	1.270	1.255	1.288	1.427	1.221	8.16
10) T 1,3-Dichlorobenzene	1.303	1.528	1.432	1.455	1.447	1.396	1.485	1.447	1.504	1.665	1.466	6.39
11) T 1,4-Dichlorobenzene	1.721	1.539	1.376	1.530	1.444	1.488	1.529	1.496	1.525	1.706	1.535	6.91
12) T 1,2-Dichlorobenzene	1.372	1.499	1.533	1.466	1.416	1.423	1.452	1.418	1.485	1.640	1.470	5.15
13) t Benzyl alcohol		0.550	0.649	0.724	0.824	0.947	1.062	1.121	1.183	1.276		*Q 0.9998
14) T bis(2-chloroisopropyl)ether	2.008	1.998	1.848	1.878	1.992	1.997	2.211	2.192	2.233	2.508	2.086	9.54
15) T 2-Methylphenol	1.172	1.078	1.089	1.102	1.158	1.121	1.225	1.230	1.285	1.404	1.186	8.63
16) T Hexachloroethane	0.531	0.529	0.628	0.546	0.597	0.565	0.620	0.612	0.624	0.698	0.595	8.90
17) T n-Nitrosodi-n-propylamine	0.768	0.890	0.761	0.867	0.873	0.866	1.015	1.060	1.107	1.221	0.943	16.06
18) T 3-Methylphenol/4-Methylphenol	0.974	1.049	1.027	1.125	1.138	1.222	1.278	1.317	1.399	1.531	1.206	14.69
19) S Nitrobenzene-d5	1.155	1.126	1.127	1.280	1.304	1.349	1.490	1.523	1.600	1.709	1.366	15.10
20) T Nitrobenzene	1.172	1.252	1.206	1.327	1.335	1.342	1.476	1.502	1.588	1.721	1.392	12.62
21) T Isophorone	2.116	2.225	2.154	2.027	2.485	2.472	2.671	2.723	2.774	2.991	2.464	13.18
22) T 2-Nitrophenol	0.439	0.541	0.554	0.527	0.589	0.625	0.689	0.701	0.737	0.781	0.618	17.36
23) T 2,4-Dimethylphenol	1.068	1.057	1.105	1.268	1.276	1.291	1.413	1.444	1.511	1.663	1.309	15.30
24) T bis(2-Chloroethoxy)methane	1.384	1.391	1.468	1.436	1.547	1.522	1.685	1.701	1.718	1.887	1.574	10.61
25) T 2,4-Dichlorophenol		0.900	0.959	1.013	1.098	1.101	1.181	1.191	1.213	1.341	1.111	12.39
26) T 1,2,4-Trichlorobenzene	1.381	1.259	1.220	1.294	1.271	1.234	1.314	1.309	1.350	1.458	1.309	5.50
27) I IS2_1,4-Dichlorobenzene-d4	-----ISTD-----											
28) T Benzaldehyde		0.649	0.662	0.834	0.821	0.860	0.837	0.815	0.785		0.783	10.39
29) T Acetophenone	0.989	1.266	1.314	1.474	1.553	1.749	1.828	1.910	1.926	2.016		*Q 0.9998
30) T m-Toluidine	1.053	1.321	1.252	1.371	1.500	1.687	1.692	1.749	1.724	1.662	1.501	16.02
31) T 2-Chloroaniline	1.431	1.444	1.348	1.459	1.516	1.662	1.687	1.764	1.777	1.847	1.593	10.94
32) I IS3_1,4-Dichlorobenzene-d4	-----ISTD-----											
33) T 1,4-Dioxane	0.588	0.584	0.504	0.472	0.450	0.445	0.434	0.440	0.417	0.448	0.478	12.83
34) T n-Decane	0.507	1.295	1.397	1.401	1.365	1.429	1.427	1.494	1.498	1.560		*L 0.9991
35) I IS1_Naphthalene-d8	-----ISTD-----											
36) T Naphthalene	1.018	0.953	0.961	0.986	0.957	0.976	1.039	1.023	1.048	1.154	1.011	6.02
37) T Benzoic Acid				0.039	0.108	0.162	0.237	0.251	0.266	0.283		*L 0.9966
38) T 4-Chloroaniline	0.089	0.102	0.112	0.120	0.123	0.123	0.138	0.140	0.146	0.160	0.125	17.10
39) T Hexachlorobutadiene	0.207	0.192	0.202	0.199	0.193	0.191	0.209	0.202	0.200	0.220	0.202	4.49
40) T p-Chloro-m-cresol	0.231	0.227	0.235	0.244	0.251	0.276	0.302	0.305	0.322	0.340	0.273	15.13
41) T 2-Methylnaphthalene	0.630	0.630	0.616	0.611	0.627	0.630	0.680	0.680	0.691	0.753	0.655	6.87
42) T 1-Methylnaphthalene	0.227	0.229	0.217	0.228	0.227	0.220	0.245	0.247	0.253	0.282	0.237	8.35
43) T Hexachlorocyclopentadiene					0.243	0.239	0.273	0.261	0.258	0.284	0.260	6.60
44) T 2,4,6-Trichlorophenol	0.162	0.168	0.179	0.178	0.200	0.201	0.231	0.229	0.237	0.255	0.204	15.89
45) T 2,4,5-Trichlorophenol	0.172	0.185	0.202	0.198	0.223	0.226	0.250	0.259	0.260	0.270	0.225	15.34

Response Factor Report SV124

Method Path : I:\8270\SV124\230526ical\
 Method File : FS230526SV124.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed May 31 17:31:38 2023
 Response Via : Initial Calibration

Calibration Files

1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =AP9L6.D 50 =AP9L7.D
 100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
46) S 2-Fluorobiphenyl	0.750	0.719	0.747	0.766	0.752	0.734	0.790	0.786	0.779	0.851	0.767	4.82
47) T 2-Chloronaphthalene	0.613	0.603	0.607	0.642	0.656	0.637	0.696	0.689	0.706	0.754	0.660	7.51
48) T 2-Nitroaniline			0.144	0.155	0.174	0.182	0.201	0.214	0.229	0.234	0.192	17.47
49) T 1,4-Dinitrobenzene		0.065	0.067	0.081	0.085	0.087	0.098	0.104	0.109	0.109	0.090	18.87
50) T 1,3-Dinitrobenzene		0.084	0.087	0.088	0.097	0.100	0.111	0.117	0.125	0.125	0.104	15.47
51) T Dimethyl phthalate	0.715	0.703	0.711	0.755	0.754	0.769	0.806	0.822	0.857	0.870	0.776	7.74
52) T Acenaphthylene	0.918	0.973	0.945	0.986	0.994	1.002	1.076	1.089	1.142	1.213	1.034	9.04
53) T 2,6-Dinitrotoluene		0.119	0.125	0.145	0.148	0.151	0.168	0.169	0.180	0.181	0.154	14.59
54) T 1,2-Dinitrobenzene		0.055	0.049	0.067	0.067	0.068	0.074	0.077	0.084	0.087	0.070	17.77
55) I IS2_Naphthalene-d8	-----ISTD-----											
56) T a-Terpineol		0.243	0.240	0.251	0.273	0.297	0.309	0.322	0.330	0.365	0.292	14.90
57) T 3-Chloroaniline		0.126	0.113	0.125	0.133	0.137	0.139	0.133	0.133	0.127	0.129	5.97
58) T 2,6-Dichlorophenol		0.216	0.221	0.240	0.246	0.260	0.274	0.286	0.289	0.313	0.261	12.60
59) T 1-chloro-2-nitrobenzene		0.107	0.127	0.127	0.124	0.132	0.140	0.143	0.147	0.156	0.134	10.88
60) T Caprolactam			0.071	0.101	0.115	0.136	0.153	0.166	0.168	0.178	*L	0.9977
61) T 1,2,4,5-Tetrachlorobenzene		0.344	0.350	0.334	0.352	0.367	0.360	0.364	0.372	0.403	0.361	5.50
62) T Biphenyl	0.735	0.730	0.748	0.787	0.807	0.851	0.847	0.866	0.883	0.967	0.822	9.18
63) I IS1_Acenaphthene-d10	-----ISTD-----											
64) T 3-Nitroaniline			0.243	0.263	0.283	0.309	0.350	0.348	0.386	0.396	0.322	17.62
65) T Acenaphthene	1.101	1.090	1.162	1.065	1.195	1.194	1.234	1.227	1.251	1.377	1.190	7.74
66) T 2,4-Dinitrophenol			0.129	0.144	0.162	0.199	0.209	0.233	0.239	*L	0.9954	
67) T Dibenzofuran	1.765	1.750	1.743	1.738	1.734	1.758	1.905	1.920	2.006	2.194	1.851	8.32
68) T 2,4-Dinitrotoluene		0.309	0.302	0.323	0.364	0.386	0.434	0.459	0.522	0.544	*Q	0.9996
69) T 4-Nitrophenol			0.171	0.225	0.226	0.254	0.293	0.304	0.349	0.369	*Q	0.9996
70) T 2,3,5,6-Tetrachlorophenol		0.293	0.280	0.314	0.352	0.357	0.405	0.407	0.426	0.442	0.364	16.31
71) T 2,3,4,6-Tetrachlorophenol		0.341	0.333	0.320	0.336	0.374	0.403	0.405	0.422	0.448	0.376	12.16
72) T Diethyl phthalate	1.343	1.336	1.358	1.369	1.429	1.445	1.635	1.638	1.702	1.747	1.500	10.80
73) T Fluorene	1.355	1.388	1.395	1.368	1.410	1.423	1.583	1.679	1.780	1.928	1.531	13.20
74) T 4-Chlorophenyl-phenylether	0.677	0.709	0.661	0.699	0.693	0.692	0.780	0.796	0.815	0.879	0.740	9.77
75) T 4-Nitroaniline		0.196	0.218	0.237	0.284	0.303	0.339	0.324	0.375	0.380	*L	0.9955
76) T 4,6-Dinitro-o-cresol			0.181	0.194	0.198	0.244	0.256	0.278	0.284	0.233	18.08	
77) T NDPA/DPA	1.053	1.131	1.072	1.105	1.179	1.151	1.260	1.289	1.365	1.458	1.206	11.03
78) T Azobenzene	1.194	1.245	1.275	1.350	1.402	1.457	1.618	1.668	1.722	1.853	1.478	15.20
79) S 2,4,6-Tribromophenol		0.197	0.216	0.214	0.219	0.235	0.262	0.266	0.276	0.288	0.241	13.35
80) T 4-Bromophenyl-phenylether	0.417	0.430	0.429	0.424	0.418	0.410	0.457	0.459	0.467	0.494	0.440	6.21
81) T Hexachlorobenzene	0.568	0.517	0.540	0.531	0.523	0.497	0.535	0.534	0.564	0.585	0.539	4.86
82) T Pentachlorophenol			0.179	0.222	0.263	0.255	0.309	0.323	0.358	0.363	*L	0.9957
83) I IS2_Acenaphthene-d10	-----ISTD-----											
84) T Dichloran			0.104	0.120	0.144	0.154	0.171	0.188	0.198	0.211	*L	0.9956
85) T Pentachloronitrobenzene			0.151	0.156	0.183	0.193	0.207	0.221	0.226	0.246	0.198	16.94
86) I IS3_Acenaphthene-d10	-----ISTD-----											
87) T Atrazine		0.311	0.311	0.329	0.338	0.369	0.403	0.456	0.474	0.492	0.387	18.55
88) I IS1_Phenanthrene-d10	-----ISTD-----											
89) T Phenanthrene	0.975	0.982	1.005	1.032	0.992	1.015	1.114	1.100	1.140	1.253	1.061	8.42
90) T Anthracene	0.955	0.957	0.951	0.994	0.999	1.039	1.147	1.138	1.189	1.321	1.069	11.64

Response Factor Report SV124

Method Path : I:\8270\SV124\230526ical\
 Method File : FS230526SV124.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed May 31 17:31:38 2023
 Response Via : Initial Calibration

Calibration Files

1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =AP9L6.D 50 =AP9L7.D
 100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
91) T Carbazole	0.731	0.801	0.821	0.883	0.879	0.931	1.021	0.998	1.111	1.194	0.937	15.42
92) T Di-n-butylphthalate	0.950	0.968	0.966	1.057	1.068	1.106	1.383	1.367	1.393	1.471	1.173	17.58
93) T Fluoranthene	1.118	1.146	1.105	1.144	1.143	1.161	1.254	1.206	1.400	1.539	1.222	11.57
94) T Benzidine		0.518	0.478	0.577	0.630	0.669	0.771	0.756	0.936	1.069	*Q	0.9982
95) T Pyrene	1.159	1.107	1.117	1.201	1.204	1.235	1.320	1.283	1.482	1.651	1.276	13.45
96) S 4-Terphenyl-d14	0.867	0.901	0.856	0.932	0.910	0.875	1.007	0.977	1.126	1.214	0.966	12.31
97) T Butyl benzyl phthalate			0.389	0.461	0.456	0.485	0.583	0.568	0.689	0.771	*Q	0.9985
98) I IS2_Phenanthrene-d10	-----ISTD-----											
99) T Diphenamid	0.379	0.356	0.347	0.378	0.434	0.463	0.490	0.525	0.550	0.615	*Q	0.9956
100) I IS3_Phenanthrene-d10	-----ISTD-----											
101) T n-Octadecane		0.341	0.374	0.382	0.416	0.422	0.468	0.513	0.545	0.546	0.445	17.12
102) T Parathion				0.076	0.080	0.089	0.102	0.126	0.136	0.141	*Q	0.9988
103) T 3,3'-Dimethylbenzidine			0.432	0.489	0.565	0.649	0.779	0.906	0.949	0.975	*Q	0.9989
104) I IS1_Chrysene-d12	-----ISTD-----											
105) T Benzo[a]anthracene	1.268	1.286	1.276	1.298	1.292	1.308	1.447	1.397	1.402	1.527	1.350	6.54
106) T 3,3'-Dichlorobenzidine		0.383	0.383	0.401	0.431	0.468	0.529	0.529	0.551	0.610	0.476	17.30
107) T Chrysene	1.195	1.278	1.311	1.264	1.239	1.255	1.372	1.387	1.421	1.529	1.325	7.64
108) T bis(2-Ethylhexyl)phthalate		0.686	0.682	0.719	0.778	0.811	1.113	1.196	1.138	1.181	*Q	0.9968
109) T Di-n-octylphthalate			1.082	1.113	1.231	1.286	1.723	1.723	1.667	1.843	*L	0.9960
110) T Benzo(b)fluoranthene	1.179	1.200	1.203	1.266	1.330	1.411	1.471	1.462	1.562	1.618	1.370	11.52
111) T Benzo(k)fluoranthene	1.109	1.221	1.217	1.296	1.320	1.303	1.518	1.432	1.298	1.585	1.330	10.84
112) T Benzo(a)pyrene	0.899	1.048	1.007	1.095	1.142	1.179	1.333	1.292	1.236	1.393	1.162	13.35
113) I IS1_Perylene-d12	-----ISTD-----											
114) T Indeno(1,2,3-cd)pyrene	0.998	1.083	1.082	1.129	1.169	1.296	1.494	1.526	1.525	1.729	1.303	19.06
115) T Dibenzo[a,h]anthracene	0.881	0.949	0.970	1.001	1.035	1.142	1.332	1.356	1.371	1.557	1.159	19.70
116) T Benzo(g,h,i)perylene	0.945	1.036	1.024	1.058	1.059	1.139	1.287	1.276	1.233	1.386	1.144	12.52

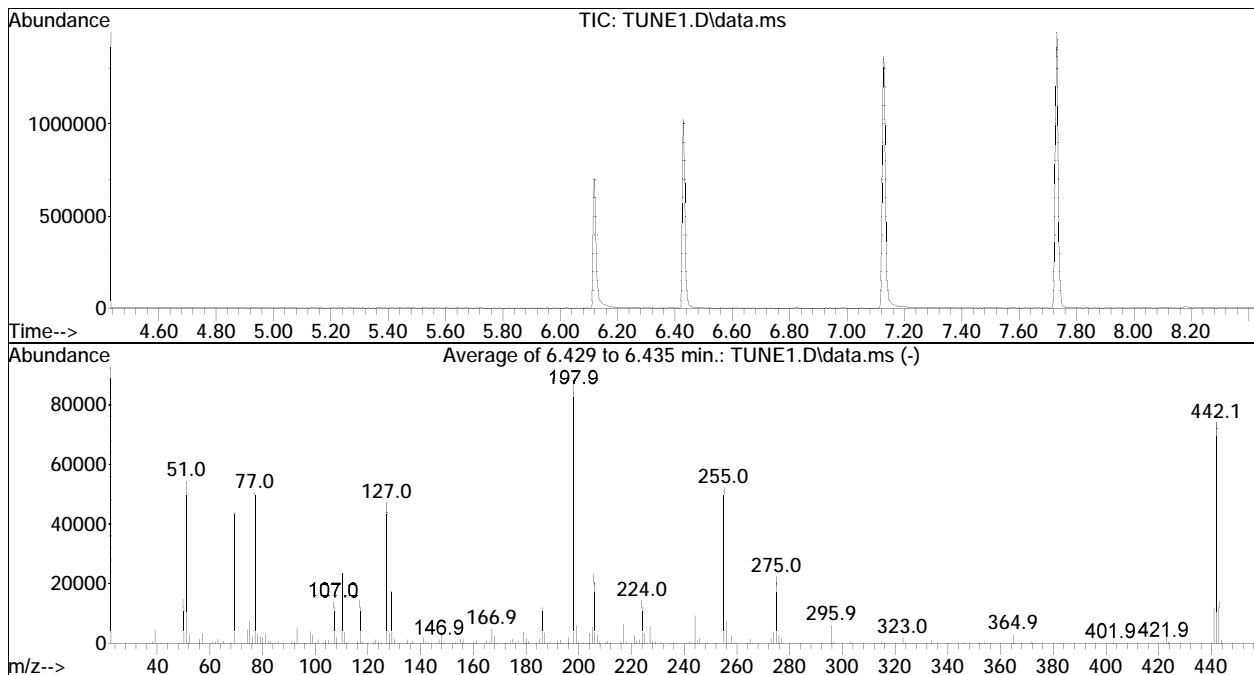
(#) = Out of Range

DFTPP

Data Path : I:\8270\SV124\230526ical\
 Data File : TUNE1.D
 Acq On : 26 May 2023 5:08 pm
 Operator : SV124:jg
 Sample : TUNE1
 Misc : WG1785590,,
 ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed May 31 17:31:38 2023

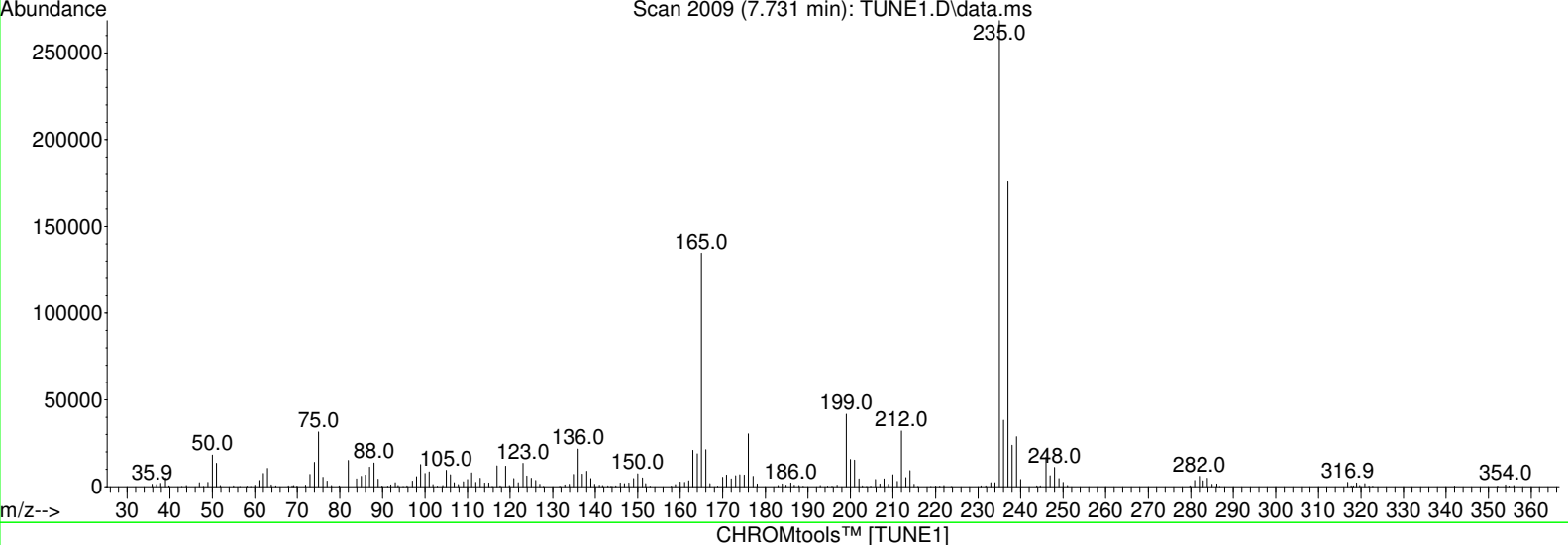
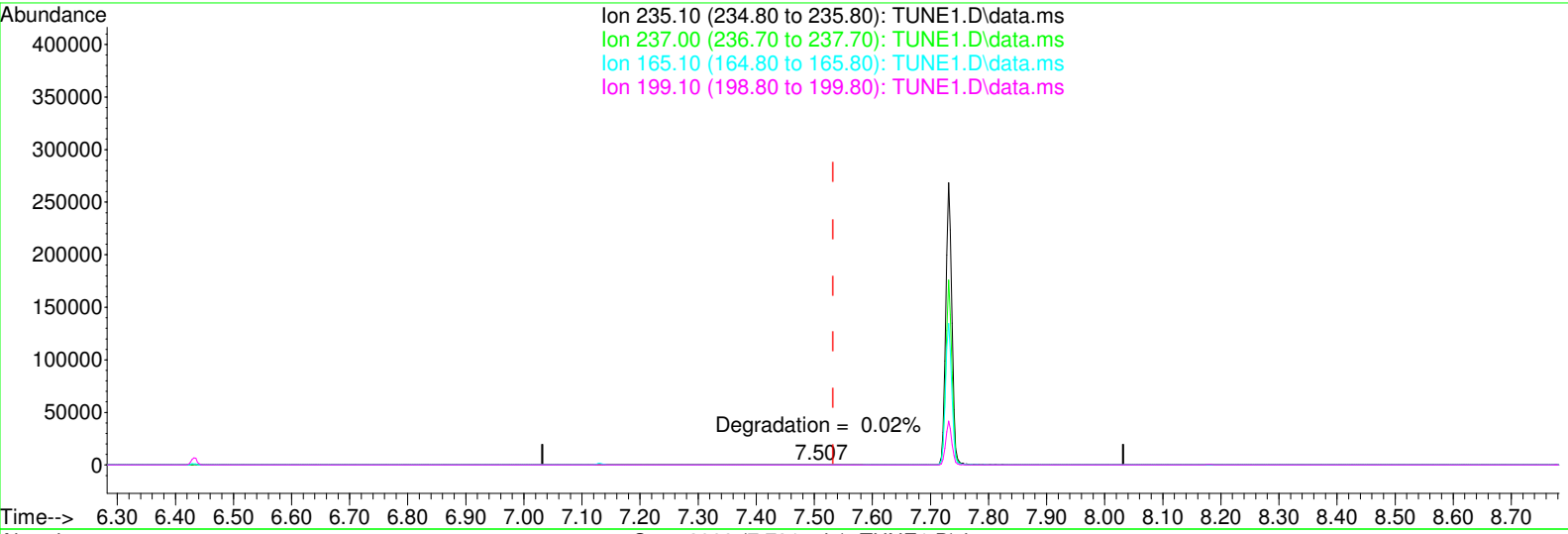


Spectrum Information: Average of 6.429 to 6.435 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	61.4	54325	PASS
68	69	0.00	2	0.9	404	PASS
69	69	0.20	100	100.0	43760	PASS
70	69	0.00	2	0.5	235	PASS
127	198	10	80	53.4	47189	PASS
197	198	0.00	2	0.4	337	PASS
198	198	100	100	100.0	88416	PASS
199	198	5	9	7.0	6169	PASS
275	198	10	60	25.2	22278	PASS
365	198	1	100	3.4	3045	PASS
441	442	0.01	24	16.1	11892	PASS
442	198	50	100	83.6	73872	PASS
443	442	15	24	18.8	13891	PASS

Data Path : I:\8270\SV124\230526ical\
 Data File : TUNE1.D
 Acq On : 26 May 2023 5:08 pm
 Operator : SV124:jg
 Sample : TUNE1
 Misc : WG1785590,,
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: May 26 17:34:48 2023
 Quant Method : I:\8270\SV124\230526ical\DftppSV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 28 13:42:10 2023
 Response via : Initial Calibration



(6) DDT (T)

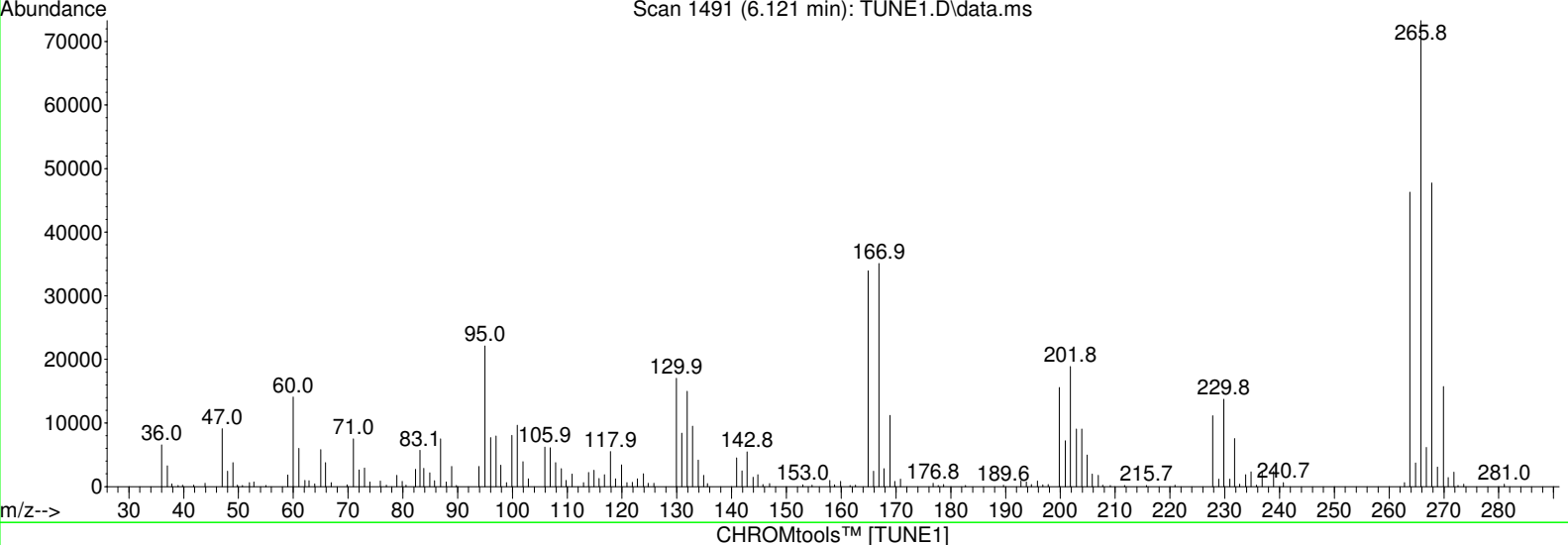
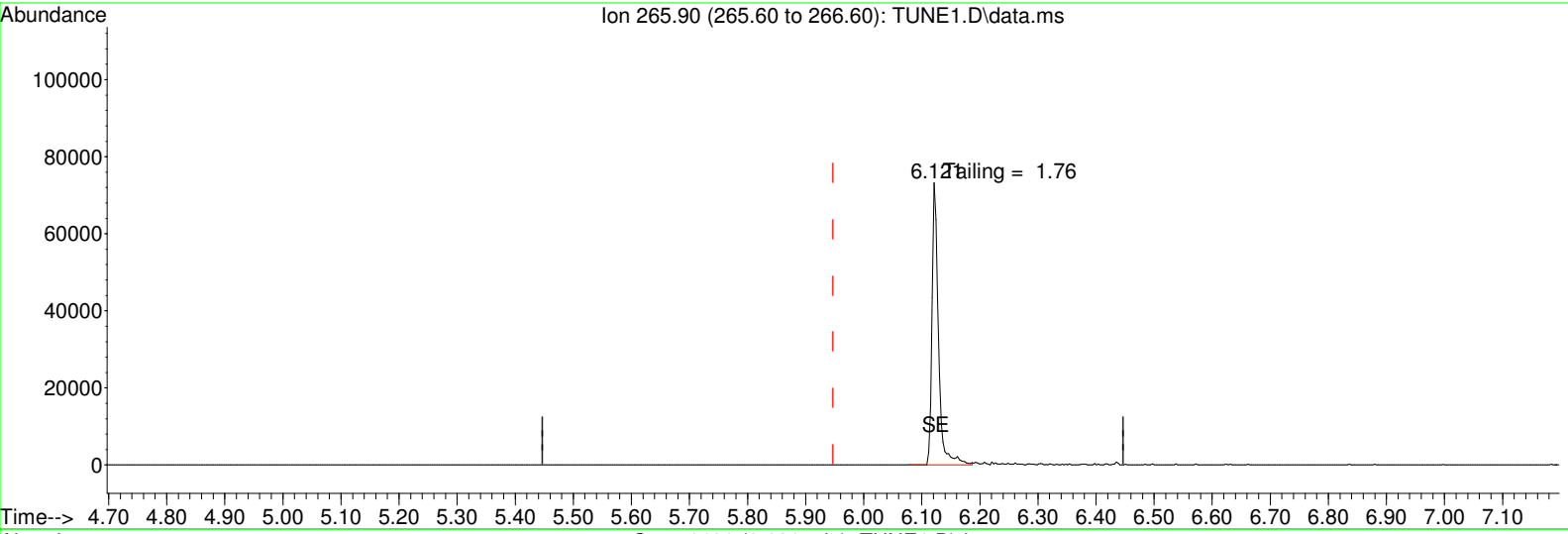
7.731min (+ 0.199) 32.13

response 195843

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	62.00	64.81
165.10	50.90	50.93
199.10	14.80	15.42

Data Path : I:\8270\SV124\230526ical\
 Data File : TUNE1.D
 Acq On : 26 May 2023 5:08 pm
 Operator : SV124:jg
 Sample : TUNE1
 Misc : WG1785590,,
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: May 26 17:34:48 2023
 Quant Method : I:\8270\SV124\230526ical\DftppSV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 28 13:42:10 2023
 Response via : Initial Calibration



CHROMtools™ [TUNE1]

(1) Pentachlorophenol (T)

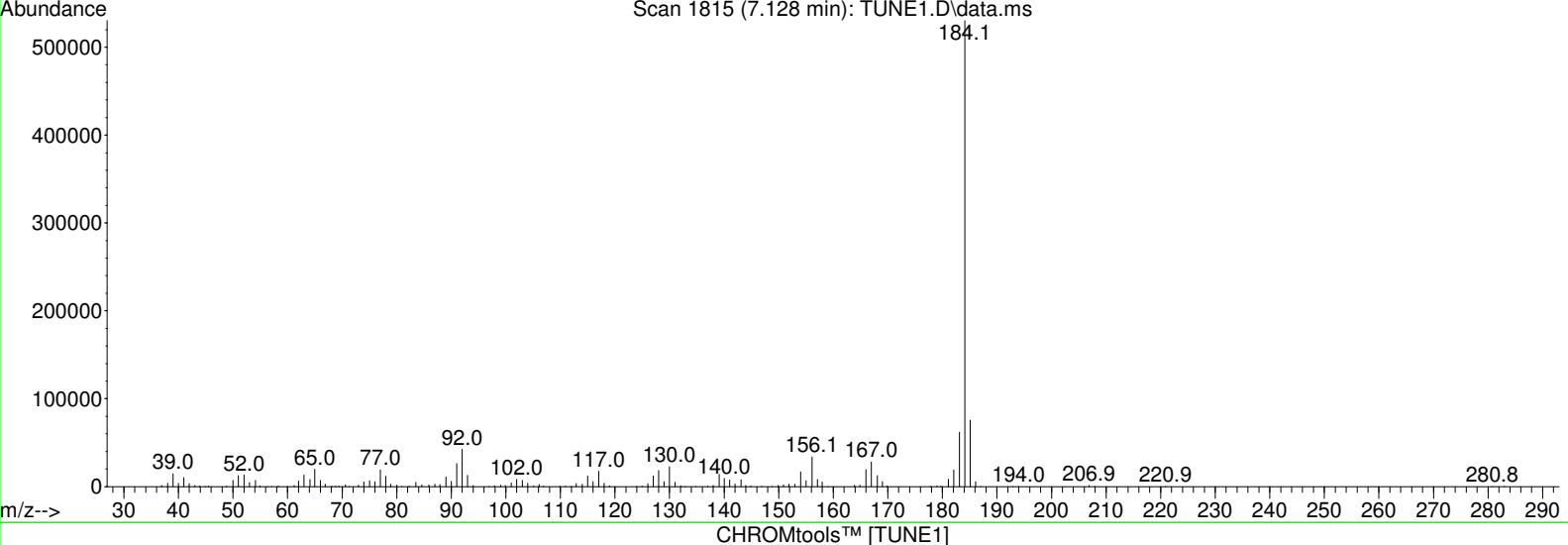
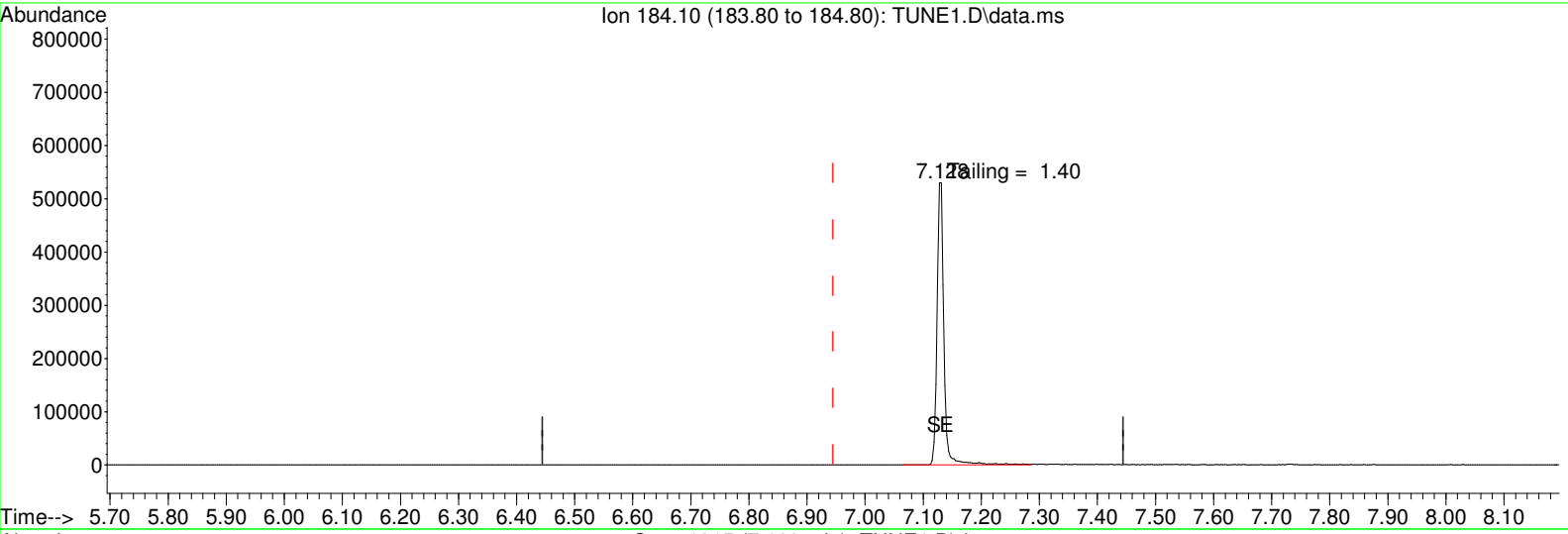
6.121min (+ 0.174) 26.31

response 55262

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\8270\SV124\230526ical\
 Data File : TUNE1.D
 Acq On : 26 May 2023 5:08 pm
 Operator : SV124:jg
 Sample : TUNE1
 Misc : WG1785590,,
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: May 26 17:34:48 2023
 Quant Method : I:\8270\SV124\230526ical\DftppSV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Feb 28 13:42:10 2023
 Response via : Initial Calibration



(3) Benzidine (T)

7.128min (+ 0.183) 41.80

response 425540

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

CHROMtools™ [TUNE1]

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL10.D
 Acq On : 26 May 2023 5:25 pm
 Operator : SV124:jg
 Sample : IL1,32,,ABNL200 Lot# 9914
 Misc : WG1785590,,
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 17:26:45 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.398	152	99954	40.000	ug/ml	# 0.00
Standard Area 1 = 129371			Recovery =	77.26%		
35) IS1_Naphthalene-d8	4.166	136	402832	40.000	ug/ml	# 0.00
Standard Area 1 = 509052			Recovery =	79.13%		
63) IS1_Acenaphthene-d10	5.276	164	210595	40.000	ug/ml	0.00
Standard Area 1 = 267488			Recovery =	78.73%		
88) IS1_Phenanthrene-d10	6.227	188	442569	40.000	ug/ml	0.00
Standard Area 1 = 549271			Recovery =	80.57%		
104) IS1_Chrysene-d12	8.082	240	523157	40.000	ug/ml	0.01
Standard Area 1 = 506716			Recovery =	103.24%		
113) IS1_Perylene-d12	9.154	264	582419	40.000	ug/ml	0.00
Standard Area 1 = 620061			Recovery =	93.93%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.674	112	678641	253.435	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery =	506.87%#		
7) Phenol-d6	3.187	99	881555	252.037	ug/ml	0.02
Spiked Amount 50.000		Range 15 - 110	Recovery =	504.07%#		
19) Nitrobenzene-d5	3.728	82	854275	250.222	ug/ml	0.01
Spiked Amount 25.000		Range 30 - 130	Recovery =	1000.89%#		
46) 2-Fluorobiphenyl	4.843	172	1713418	221.699	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery =	886.80%#		
79) 2,4,6-Tribromophenol	5.779	330	303563	238.771	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery =	477.54%#		
96) 4-Terphenyl-d14	7.299	244	2685597	251.186	ug/ml	0.01
Spiked Amount 25.000		Range 30 - 130	Recovery =	1004.74%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.978	74	444678	254.767	ug/ml#	86
3) Pyridine	2.006	79	750912	229.453	ug/ml	95
5) Aniline	3.212	93	1119125	247.445	ug/ml	92
6) 2-Chlorophenol	3.280	128	767283	242.427	ug/ml	99
8) Phenol	3.193	94	999354M6	261.785	ug/ml	
9) Bis(2-chloroethyl)ether	3.243	93	713310	233.718	ug/ml	94
10) 1,3-Dichlorobenzene	3.367	146	832202	227.150	ug/ml	99
11) 1,4-Dichlorobenzene	3.408	146	852673	222.243	ug/ml	99
12) 1,2-Dichlorobenzene	3.501	146	819374	222.999	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL10.D
 Acq On : 26 May 2023 5:25 pm
 Operator : SV124:jg
 Sample : IL1,32,,ABNL200 Lot# 9914
 Misc : WG1785590,,
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 17:26:45 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	3.479	79	637591	200.553	ug/ml	96
14) Bis(2-chloroisopropyl)...	3.560	45	1253205	240.368	ug/ml#	72
15) 2-Methylphenol	3.544	108	701820	236.740	ug/ml	99
16) Hexachloroethane	3.700	117	348691	234.566	ug/ml	87
17) n-Nitrosodi-n-propylamine	3.644	70	610460	259.076	ug/ml	96
18) 3-Methylphenol/4-Methy...	3.638	108	765234	253.958	ug/ml	99
20) Nitrobenzene	3.737	77	859953	247.188	ug/ml	100
21) Isophorone	3.892	82	1494661	242.770	ug/ml	98
22) 2-Nitrophenol	3.930	139	390145	252.492	ug/ml	100
23) 2,4-Dimethylphenol	3.958	107	830881	253.927	ug/ml	99
24) Bis(2-chloroethoxy)met...	4.014	93	943225	239.825	ug/ml	98
25) 2,4-Dichlorophenol	4.079	162	670047	241.374	ug/ml	99
26) 1,2,4-Trichlorobenzene	4.132	180	728696	222.780	ug/ml	98
36) Naphthalene	4.178	128	2323629	228.112	ug/ml	100
37) Benzoic Acid	4.045	105	569017	209.152	ug/ml	95
38) 4-Chloroaniline	4.213	65	322127	255.128	ug/ml	98
39) Hexachlorobutadiene	4.262	225	443540	218.409	ug/ml	99
40) p-Chloro-m-cresol	4.514	107	683873	248.504	ug/ml	98
41) 2-Methylnaphthalene	4.613	142	1516105	229.862	ug/ml	97
42) 1-Methylnaphthalene	4.676	115	568308	237.653	ug/ml	97
43) Hexachlorocyclopentadiene	4.716	237	571303	218.533	ug/ml	95
44) 2,4,6-Trichlorophenol	4.791	196	514144	250.344	ug/ml	93
45) 2,4,5-Trichlorophenol	4.812	196	543691	240.472	ug/ml	97
47) 2-Chloronaphthalene	4.918	162	1518142	228.278	ug/ml	98
48) 2-Nitroaniline	4.990	138	471086	244.228	ug/ml	98
49) 1,4-Dinitrobenzene	5.067	168	220464	244.487	ug/ml	93
50) 1,3-Dinitrobenzene	5.123	168	251078	239.793	ug/ml	97
51) Dimethyl phthalate	5.108	163	1751332	224.082	ug/ml	100
52) Acenaphthylene	5.185	152	2443980	234.703	ug/ml	99
53) 2,6-Dinitrotoluene	5.142	165	365558	235.416	ug/ml#	74
54) 1,2-Dinitrobenzene	5.179	168	175427	249.404	ug/ml	100
64) 3-Nitroaniline	5.254	138	416927	245.817	ug/ml	97
65) Acenaphthene	5.297	154	1450243	231.545	ug/ml	95
66) 2,4-Dinitrophenol	5.319	184	251945	208.789	ug/ml	93
67) Dibenzofuran	5.406	168	2310407	237.018	ug/ml	96
68) 2,4-Dinitrotoluene	5.403	165	572603	198.550	ug/ml	97
69) 4-Nitrophenol	5.359	65	388601	199.267	ug/ml	98
70) 2,3,5,6-Tetrachlorophenol	5.459	232	465167	242.708	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL10.D
 Acq On : 26 May 2023 5:25 pm
 Operator : SV124:jg
 Sample : IL1,32,,ABNL200 Lot# 9914
 Misc : WG1785590,,
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 17:26:45 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	5.487	232	472075	238.550	ug/ml	99
72) Diethyl phthalate	5.555	149	1839188	232.875	ug/ml	100
73) Fluorene	5.624	166	2030657	251.937	ug/ml	100
74) 4-Chlorophenyl phenyl ...	5.624	204	925821	237.581	ug/ml	93
75) 4-Nitroaniline	5.652	138	400592	209.476	ug/ml	92
76) 4,6-Dinitro-o-cresol	5.667	198	298983	243.243	ug/ml	91
77) NDPA/DPA	5.701	169	1535187	241.709	ug/ml	96
78) Azobenzene	5.726	77	1951250	250.690	ug/ml	99
80) 4-Bromophenyl phenyl e...	5.938	248	520548	224.467	ug/ml#	86
81) Hexachlorobenzene	5.987	284	615847	216.840	ug/ml	94
82) Pentachlorophenol	6.108	266	381802	208.242	ug/ml	99
89) Phenanthrene	6.242	178	2771782	236.187	ug/ml	98
90) Anthracene	6.276	178	2922403	247.077	ug/ml	98
91) Carbazole	6.379	167	2642420	254.908	ug/ml	98
92) Di-n-butylphthalate	6.606	149	3255258	250.830	ug/ml	100
93) Fluoranthene	7.032	202	3406314	252.006	ug/ml	98
94) Benzidine	7.125	184	2364680	201.688	ug/ml	98
95) Pyrene	7.190	202	3652583	258.759	ug/ml	100
97) Butyl benzyl phthalate	7.653	149	1705596	201.112	ug/ml	96
105) Benzo(a)anthracene	8.073	228	3995430	226.288	ug/ml	98
106) 3,3'-Dichlorobenzidine	8.057	252	1596634	256.332	ug/ml#	94
107) Chrysene	8.104	228	4000474	230.817	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	8.095	149	3088199	198.536	ug/ml#	97
109) Di-n-octylphthalate	8.586	149	4821479	210.405	ug/ml	99
110) Benzo(b)fluoranthene	8.887	252	4231861	236.120	ug/ml	97
111) Benzo(k)fluoranthene	8.909	252	4146226	238.358	ug/ml	97
112) Benzo(a)pyrene	9.123	252	3643762	239.673	ug/ml	97
114) Indeno(1,2,3-cd)pyrene	9.879	276	5033682	265.317	ug/mL	95
115) Dibenzo(a,h)anthracene	9.882	278	4532778	268.541	ug/ml	97
116) Benzo(ghi)perylene	10.053	276	4036055	242.240	ug/ml#	90

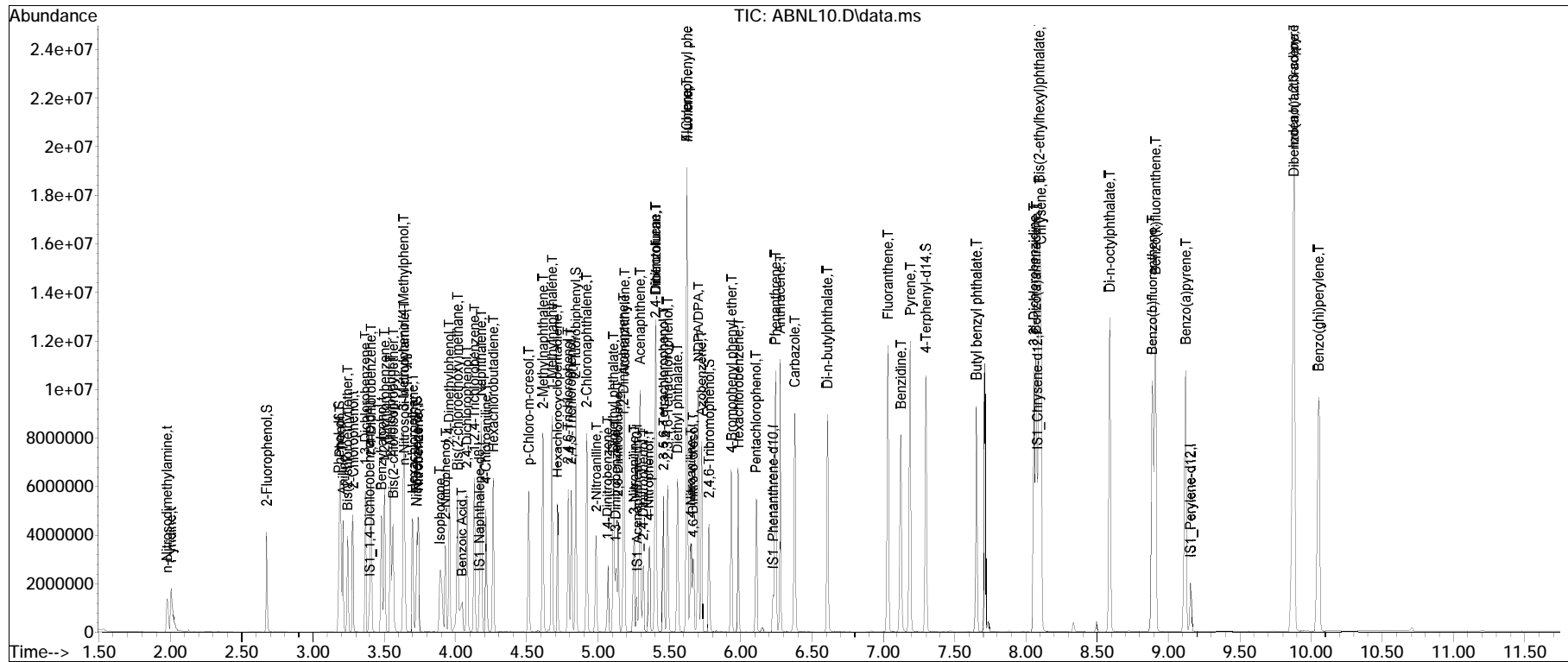
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL10.D
 Acq On : 26 May 2023 5:25 pm
 Operator : SV124:jg
 Sample : IL1,32,,ABNL200 Lot# 9914
 Misc : WG1785590,,
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 17:26:45 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

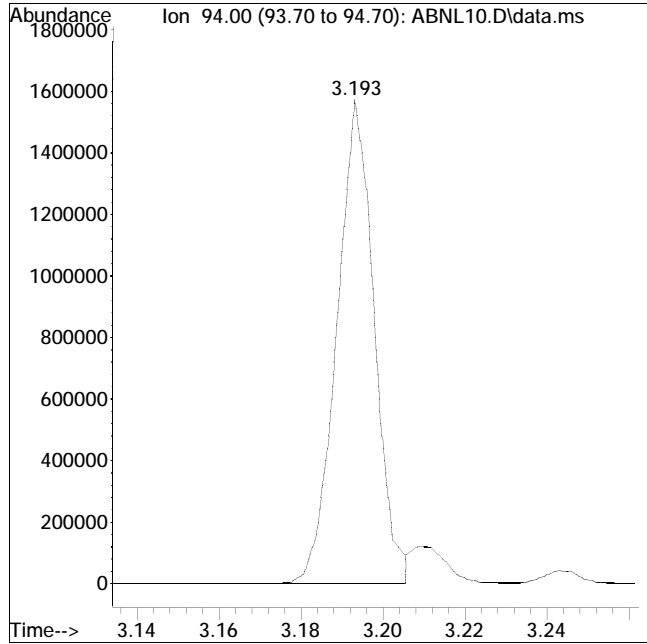
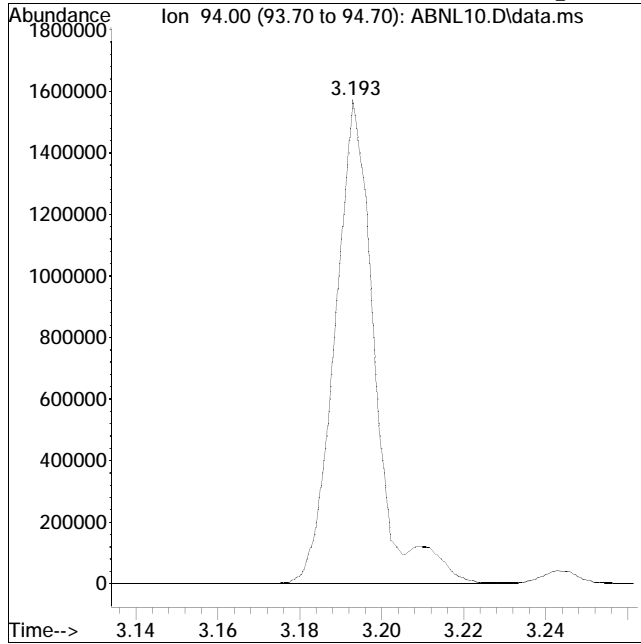
Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ABNL10.D Operator : SV124:jg
Date Inj'd : 5/26/2023 5:25 pm Instrument : SV124
Sample : IL1,32,,ABNL200 Lot# 9914 Quant Date : 5/31/2023 5:11 pm

Compound #8: Phenol



Original Peak Response = 1068041

Manual Peak Response = 999354 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL9.D
 Acq On : 26 May 2023 5:42 pm
 Operator : SV124:jg
 Sample : IL2,32,,ABNL150 Lot# 9942
 Misc : WG1785590,,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 17:15:09 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.395	152	111734	40.000	ug/ml	# 0.00
Standard Area 1 = 129371			Recovery =	86.37%		
35) IS1_Naphthalene-d8	4.160	136	455126	40.000	ug/ml	# 0.00
Standard Area 1 = 509052			Recovery =	89.41%		
63) IS1_Acenaphthene-d10	5.269	164	245975	40.000	ug/ml	0.00
Standard Area 1 = 267488			Recovery =	91.96%		
88) IS1_Phenanthrene-d10	6.224	188	558237	40.000	ug/ml	0.00
Standard Area 1 = 549271			Recovery =	101.63%		
104) IS1_Chrysene-d12	8.079	240	616543	40.000	ug/ml	0.00
Standard Area 1 = 506716			Recovery =	121.67%		
113) IS1_Perylene-d12	9.152	264	677723	40.000	ug/ml	0.00
Standard Area 1 = 620061			Recovery =	109.30%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.671	112	513363	171.501	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	343.00%#		
7) Phenol-d6	3.181	99	681562	174.315	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	348.63%#		
19) Nitrobenzene-d5	3.722	82	670249	175.622	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	702.49%#		
46) 2-Fluorobiphenyl	4.841	172	1330135	152.331	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	609.32%#		
79) 2,4,6-Tribromophenol	5.776	330	254643	171.483	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	342.97%#		
96) 4-Terphenyl-d14	7.293	244	2356153	174.711	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	698.84%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.975	74	336203	172.311	ug/ml	85
3) Pyridine	2.003	79	565163	154.863	ug/ml	97
5) Aniline	3.206	93	861894	170.478	ug/ml	93
6) 2-Chlorophenol	3.274	128	592983	167.603	ug/ml	97
8) Phenol	3.187	94	751916	176.202	ug/ml#	87
9) Bis(2-chloroethyl)ether	3.240	93	539718	158.196	ug/ml	95
10) 1,3-Dichlorobenzene	3.364	146	630187	153.875	ug/ml	98
11) 1,4-Dichlorobenzene	3.405	146	638837	148.954	ug/ml	99
12) 1,2-Dichlorobenzene	3.495	146	622161	151.474	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL9.D
 Acq On : 26 May 2023 5:42 pm
 Operator : SV124:jg
 Sample : IL2,32,,ABNL150 Lot# 9942
 Misc : WG1785590,,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 17:15:09 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	3.476	79	495764	148.729	ug/ml	96
14) Bis(2-chloroisopropyl)...	3.554	45	935602	160.532	ug/ml#	73
15) 2-Methylphenol	3.538	108	538338	162.448	ug/ml	99
16) Hexachloroethane	3.697	117	261501	157.366	ug/ml	87
17) n-Nitrosodi-n-propylamine	3.638	70	463796	176.081	ug/ml	96
18) 3-Methylphenol/4-Methy...	3.632	108	586165	174.021	ug/ml	98
20) Nitrobenzene	3.734	77	665388	171.097	ug/ml	100
21) Isophorone	3.886	82	1162313	168.884	ug/ml	98
22) 2-Nitrophenol	3.927	139	308969	178.876	ug/ml	98
23) 2,4-Dimethylphenol	3.955	107	632990	173.054	ug/ml	99
24) Bis(2-chloroethoxy)met...	4.008	93	719937	163.753	ug/ml	98
25) 2,4-Dichlorophenol	4.076	162	508271	163.793	ug/ml	98
26) 1,2,4-Trichlorobenzene	4.126	180	565511	154.663	ug/ml	98
36) Naphthalene	4.175	128	1788735	155.425	ug/ml	100
37) Benzoic Acid	4.032	105	453212	149.069	ug/ml	94
38) 4-Chloroaniline	4.210	65	249777	175.096	ug/ml	94
39) Hexachlorobutadiene	4.256	225	341069	148.652	ug/ml	99
40) p-Chloro-m-cresol	4.508	107	549438	176.713	ug/ml	98
41) 2-Methylnaphthalene	4.607	142	1179800	158.321	ug/ml	97
42) 1-Methylnaphthalene	4.670	115	432241	159.985	ug/ml	94
43) Hexachlorocyclopentadiene	4.713	237	440399	149.104	ug/ml	96
44) 2,4,6-Trichlorophenol	4.788	196	403998	174.110	ug/ml	94
45) 2,4,5-Trichlorophenol	4.809	196	443538	173.634	ug/ml	96
47) 2-Chloronaphthalene	4.915	162	1205432	160.431	ug/ml	97
48) 2-Nitroaniline	4.984	138	391037	179.435	ug/ml	98
49) 1,4-Dinitrobenzene	5.064	168	186688	183.243	ug/ml	93
50) 1,3-Dinitrobenzene	5.117	168	213937	180.845	ug/ml	99
51) Dimethyl phthalate	5.102	163	1462100	165.580	ug/ml	99
52) Acenaphthylene	5.179	152	1949318	165.690	ug/ml	99
53) 2,6-Dinitrotoluene	5.136	165	306983	174.979	ug/ml	99
54) 1,2-Dinitrobenzene	5.176	168	143677	180.795	ug/ml	98
64) 3-Nitroaniline	5.248	138	355954	179.682	ug/ml	95
65) Acenaphthene	5.291	154	1153727	157.709	ug/ml	94
66) 2,4-Dinitrophenol	5.313	184	215103	153.548	ug/ml	92
67) Dibenzofuran	5.400	168	1850281	162.513	ug/ml	95
68) 2,4-Dinitrotoluene	5.397	165	481057	152.978	ug/ml	98
69) 4-Nitrophenol	5.353	65	321701	152.210	ug/ml	98
70) 2,3,5,6-Tetrachlorophenol	5.453	232	393144	175.624	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL9.D
 Acq On : 26 May 2023 5:42 pm
 Operator : SV124:jg
 Sample : IL2,32,,ABNL150 Lot# 9942
 Misc : WG1785590,,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 17:15:09 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	5.481	232	389236	168.399	ug/ml	99
72) Diethyl phthalate	5.552	149	1569701	170.165	ug/ml	100
73) Fluorene	5.621	166	1641964	174.412	ug/ml	100
74) 4-Chlorophenyl phenyl ...	5.618	204	752181	165.258	ug/ml	92
75) 4-Nitroaniline	5.642	138	345744	155.161	ug/ml	94
76) 4,6-Dinitro-o-cresol	5.661	198	256259	178.497	ug/ml	95
77) NDPA/DPA	5.695	169	1259056	169.720	ug/ml	96
78) Azobenzene	5.720	77	1588375	174.717	ug/ml	99
80) 4-Bromophenyl phenyl e...	5.931	248	431007	159.123	ug/ml#	87
81) Hexachlorobenzene	5.981	284	520356	156.864	ug/ml	93
82) Pentachlorophenol	6.106	266	330008	154.658	ug/ml	98
89) Phenanthrene	6.239	178	2386120	161.195	ug/ml	99
90) Anthracene	6.270	178	2488128	166.774	ug/ml	98
91) Carbazole	6.376	167	2324940	177.810	ug/ml	99
92) Di-n-butylphthalate	6.603	149	2915686	178.114	ug/ml	100
93) Fluoranthene	7.026	202	2930137	171.861	ug/ml	97
94) Benzidine	7.119	184	1959637	149.721	ug/ml	98
95) Pyrene	7.184	202	3101786	174.209	ug/ml	100
97) Butyl benzyl phthalate	7.650	149	1441901	150.297	ug/ml	96
105) Benzo(a)anthracene	8.070	228	3242321	155.820	ug/ml	98
106) 3,3'-Dichlorobenzidine	8.051	252	1274649	173.643	ug/ml#	96
107) Chrysene	8.098	228	3285713	160.862	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	8.092	149	2630315	147.893	ug/ml#	97
109) Di-n-octylphthalate	8.583	149	3854603	143.355	ug/ml	100
110) Benzo(b)fluoranthene	8.881	252	3611844	171.001	ug/ml#	94
111) Benzo(k)fluoranthene	8.903	252	3001731	146.426	ug/ml	95
112) Benzo(a)pyrene	9.117	252	2858706	159.554	ug/ml	96
114) Indeno(1,2,3-cd)pyrene	9.869	276	3876108	175.573	ug/mL	96
115) Dibenzo(a,h)anthracene	9.876	278	3483221	177.342	ug/ml	96
116) Benzo(ghi)perylene	10.047	276	3132728	161.582	ug/ml#	90

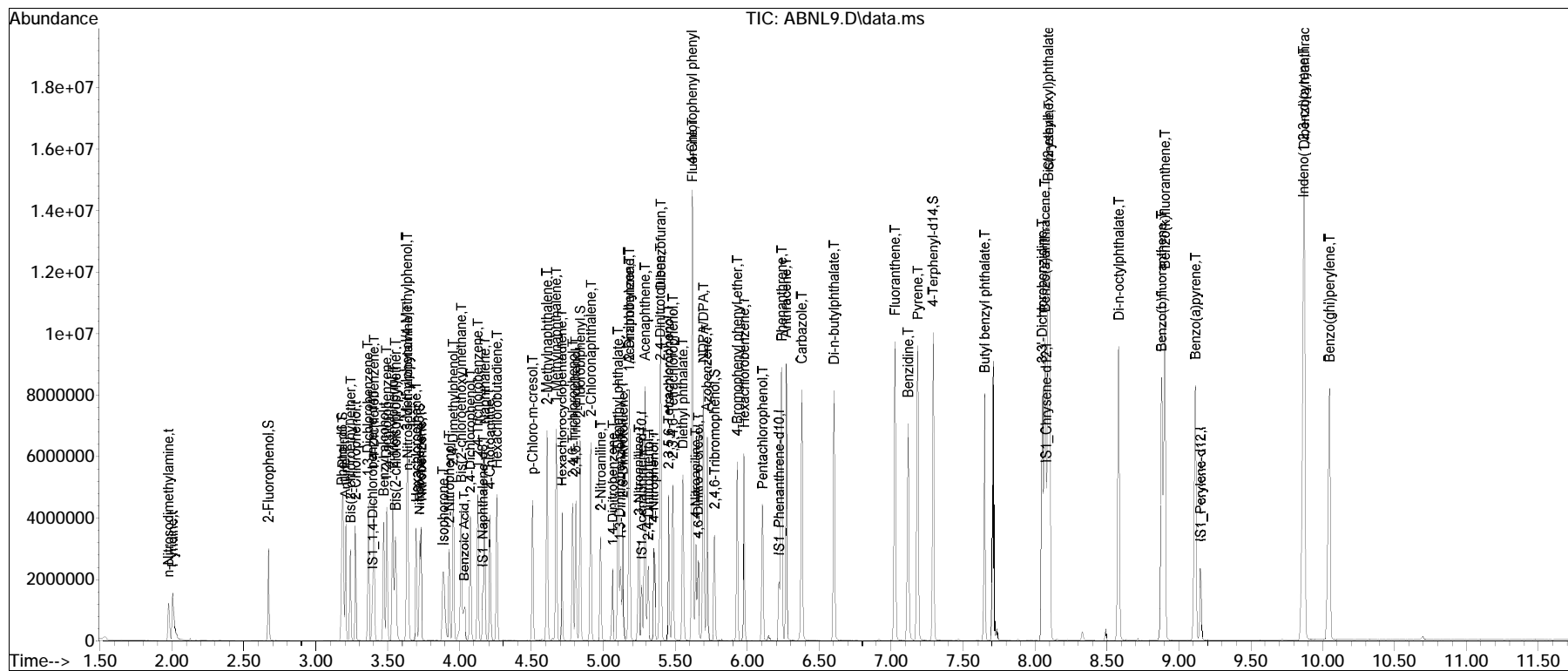
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL9.D
 Acq On : 26 May 2023 5:42 pm
 Operator : SV124:jg
 Sample : IL2,32,,ABNL150 Lot# 9942
 Misc : WG1785590,,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 17:15:09 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ABNL9.D Operator : SV124:jg
Date Inj'd : 5/26/2023 5:42 pm Instrument : SV124
Sample : IL2,32,,ABNL150 Lot# 9942 Quant Date : 5/31/2023 5:15 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL8.D
 Acq On : 26 May 2023 5:59 pm
 Operator : SV124:jg
 Sample : IL3,32,,ABNL100 Lot# 9943
 Misc : WG1785590,,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 17:14:58 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.392	152	133261	40.000	ug/ml	# 0.00
Standard Area 1 = 129371			Recovery = 103.01%			
35) IS1_Naphthalene-d8	4.157	136	538734	40.000	ug/ml	# 0.00
Standard Area 1 = 509052			Recovery = 105.83%			
63) IS1_Acenaphthene-d10	5.266	164	290616	40.000	ug/ml	0.00
Standard Area 1 = 267488			Recovery = 108.65%			
88) IS1_Phenanthrene-d10	6.221	188	611618	40.000	ug/ml	0.00
Standard Area 1 = 549271			Recovery = 111.35%			
104) IS1_Chrysene-d12	8.073	240	535921	40.000	ug/ml	0.00
Standard Area 1 = 506716			Recovery = 105.76%			
113) IS1_Perylene-d12	9.148	264	635339	40.000	ug/ml	0.00
Standard Area 1 = 620061			Recovery = 102.46%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.668	112	386196	108.176	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 216.35%#			
7) Phenol-d6	3.178	99	501962	107.642	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 215.28%#			
19) Nitrobenzene-d5	3.719	82	507329	111.459	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery = 445.84%#			
46) 2-Fluorobiphenyl	4.837	172	1058636	102.423	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery = 409.69%#			
79) 2,4,6-Tribromophenol	5.773	330	192953	109.980	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 219.96%#			
96) 4-Terphenyl-d14	7.290	244	1493541	101.082	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery = 404.33%#			
Target Compounds						
2) n-Nitrosodimethylamine	1.975	74	250262	107.545	ug/ml#	87
3) Pyridine	2.003	79	429758	99.153	ug/ml	94
5) Aniline	3.203	93	646481	107.214	ug/ml	92
6) 2-Chlorophenol	3.271	128	437041	103.572	ug/ml	99
8) Phenol	3.184	94	554096	108.870	ug/ml#	86
9) Bis(2-chloroethyl)ether	3.237	93	418074	102.746	ug/ml	95
10) 1,3-Dichlorobenzene	3.361	146	482132	98.707	ug/ml	99
11) 1,4-Dichlorobenzene	3.401	146	498465	97.449	ug/ml	98
12) 1,2-Dichlorobenzene	3.492	146	472434	96.440	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL8.D
 Acq On : 26 May 2023 5:59 pm
 Operator : SV124:jg
 Sample : IL3,32,,ABNL100 Lot# 9943
 Misc : WG1785590,,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 17:14:58 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	3.470	79	373400	100.269	ug/ml	96
14) Bis(2-chloroisopropyl)...	3.551	45	730354	105.072	ug/ml#	74
15) 2-Methylphenol	3.535	108	409915	103.714	ug/ml	99
16) Hexachloroethane	3.694	117	203814	102.838	ug/ml	86
17) n-Nitrosodi-n-propylamine	3.635	70	353192	112.429	ug/ml	97
18) 3-Methylphenol/4-Methy...	3.628	108	438616	109.181	ug/ml	98
20) Nitrobenzene	3.731	77	500253	107.855	ug/ml	100
21) Isophorone	3.883	82	907187	110.521	ug/ml	98
22) 2-Nitrophenol	3.924	139	233467	113.330	ug/ml	99
23) 2,4-Dimethylphenol	3.952	107	480917	110.240	ug/ml	99
24) Bis(2-chloroethoxy)met...	4.004	93	566799	108.095	ug/ml	98
25) 2,4-Dichlorophenol	4.073	162	396922	107.248	ug/ml	98
26) 1,2,4-Trichlorobenzene	4.126	180	435981	99.976	ug/ml	98
36) Naphthalene	4.172	128	1378067	101.158	ug/ml	100
37) Benzoic Acid	4.023	105	337524	95.830	ug/ml	94
38) 4-Chloroaniline	4.206	65	188794	111.807	ug/ml	94
39) Hexachlorobutadiene	4.253	225	272511	100.339	ug/ml	99
40) p-Chloro-m-cresol	4.505	107	411247	111.740	ug/ml	96
41) 2-Methylnaphthalene	4.604	142	916488	103.900	ug/ml	97
42) 1-Methylnaphthalene	4.666	115	332601	104.000	ug/ml	94
43) Hexachlorocyclopentadiene	4.710	237	352004	100.681	ug/ml	95
44) 2,4,6-Trichlorophenol	4.785	196	308253	112.230	ug/ml	94
45) 2,4,5-Trichlorophenol	4.806	196	348191	115.154	ug/ml	96
47) 2-Chloronaphthalene	4.912	162	928499	104.396	ug/ml	97
48) 2-Nitroaniline	4.980	138	288315	111.767	ug/ml	96
49) 1,4-Dinitrobenzene	5.061	168	139665	115.812	ug/ml	91
50) 1,3-Dinitrobenzene	5.114	168	157574	112.528	ug/ml	99
51) Dimethyl phthalate	5.098	163	1106552	105.867	ug/ml	99
52) Acenaphthylene	5.176	152	1467071	105.347	ug/ml	99
53) 2,6-Dinitrotoluene	5.133	165	228229	109.901	ug/ml	99
54) 1,2-Dinitrobenzene	5.170	168	103139	109.643	ug/ml	98
64) 3-Nitroaniline	5.241	138	253191	108.176	ug/ml	94
65) Acenaphthene	5.288	154	891320	103.123	ug/ml	96
66) 2,4-Dinitrophenol	5.310	184	152011	93.232	ug/ml	93
67) Dibenzofuran	5.400	168	1395206	103.719	ug/ml	94
68) 2,4-Dinitrotoluene	5.394	165	333817	98.331	ug/ml	97
69) 4-Nitrophenol	5.347	65	221113	97.497	ug/ml	97
70) 2,3,5,6-Tetrachlorophenol	5.453	232	295519	111.735	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL8.D
 Acq On : 26 May 2023 5:59 pm
 Operator : SV124:jg
 Sample : IL3,32,,ABNL100 Lot# 9943
 Misc : WG1785590,,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 17:14:58 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	5.481	232	294205	107.733	ug/ml	99
72) Diethyl phthalate	5.549	149	1190288	109.214	ug/ml	99
73) Fluorene	5.618	166	1219663	109.654	ug/ml	100
74) 4-Chlorophenyl phenyl ...	5.618	204	578084	107.499	ug/ml	91
75) 4-Nitroaniline	5.639	138	235547	90.071	ug/ml	95
76) 4,6-Dinitro-o-cresol	5.655	198	185822	109.552	ug/ml	94
77) NDPA/DPA	5.692	169	936748	106.877	ug/ml	96
78) Azobenzene	5.717	77	1212060	112.844	ug/ml	99
80) 4-Bromophenyl phenyl e...	5.928	248	333489	104.208	ug/ml#	86
81) Hexachlorobenzene	5.978	284	388031	99.006	ug/ml	93
82) Pentachlorophenol	6.102	266	234527	93.877	ug/ml	98
89) Phenanthrene	6.236	178	1681949	103.708	ug/ml	99
90) Anthracene	6.267	178	1740728	106.494	ug/ml	99
91) Carbazole	6.373	167	1526209	106.536	ug/ml	98
92) Di-n-butylphthalate	6.600	149	2090738	116.572	ug/ml	100
93) Fluoranthene	7.022	202	1844034	98.718	ug/ml	97
94) Benzidine	7.116	184	1155767	93.741	ug/ml	98
95) Pyrene	7.181	202	1962042	100.578	ug/ml	99
97) Butyl benzyl phthalate	7.644	149	867749	94.519	ug/ml	96
105) Benzo(a)anthracene	8.064	228	1871708	103.482	ug/ml	98
106) 3,3'-Dichlorobenzidine	8.045	252	708780	111.081	ug/ml#	95
107) Chrysene	8.095	228	1858643	104.685	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	8.088	149	1602785	106.500	ug/ml#	97
109) Di-n-octylphthalate	8.580	149	2308334	99.364	ug/ml	99
110) Benzo(b)fluoranthene	8.875	252	1958561	106.677	ug/ml#	97
111) Benzo(k)fluoranthene	8.897	252	1918538	107.666	ug/ml#	97
112) Benzo(a)pyrene	9.108	252	1730827	111.136	ug/ml#	96
114) Indeno(1,2,3-cd)pyrene	9.863	276	2423301	117.089	ug/mL	97
115) Dibenzo(a,h)anthracene	9.866	278	2153203	116.940	ug/ml#	95
116) Benzo(ghi)perylene	10.037	276	2027030	111.527	ug/ml#	89

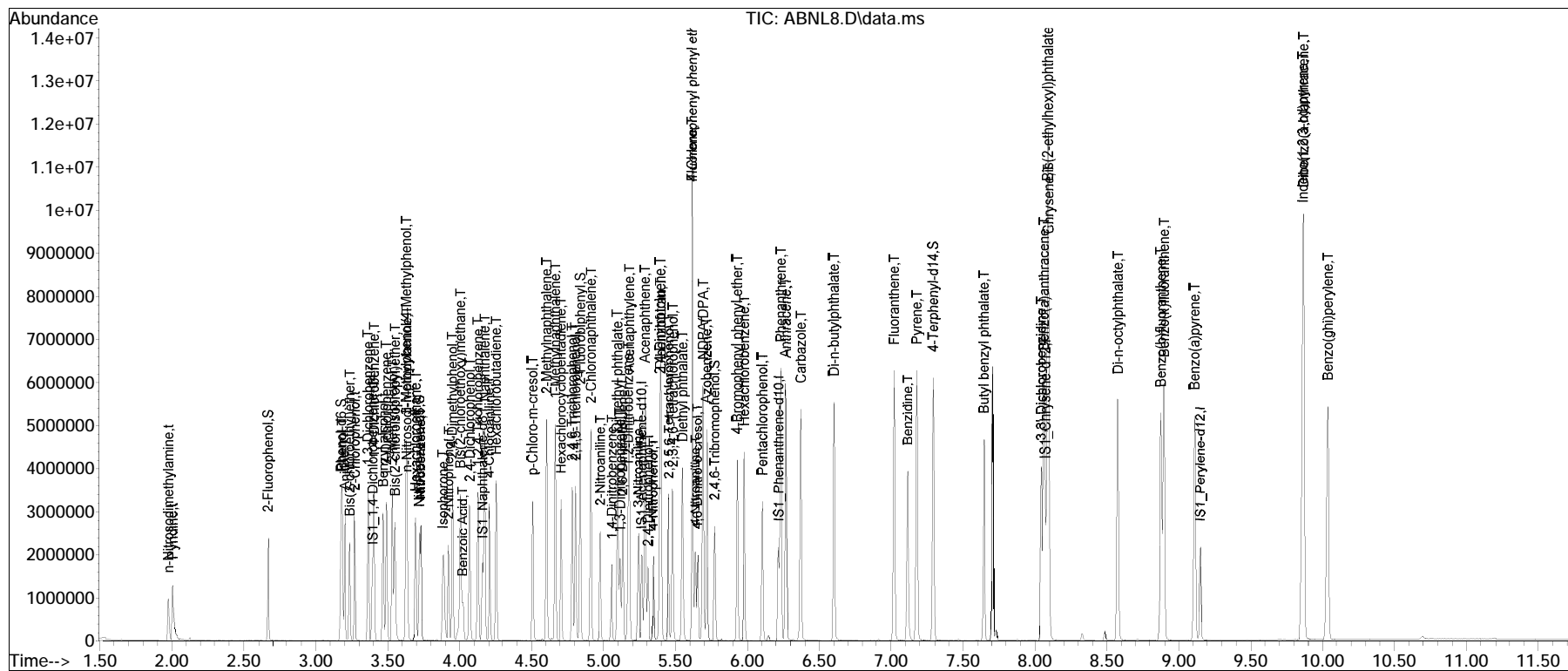
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL8.D
 Acq On : 26 May 2023 5:59 pm
 Operator : SV124:jg
 Sample : IL3,32,,ABNL100 Lot# 9943
 Misc : WG1785590,,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 17:14:58 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ABNL8.D Operator : SV124:jg
Date Inj'd : 5/26/2023 5:59 pm Instrument : SV124
Sample : IL3,32,,ABNL100 Lot# 9943 Quant Date : 5/31/2023 5:14 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL7.D
 Acq On : 26 May 2023 6:16 pm
 Operator : SV124:jg
 Sample : IL4,32,,ABNL50 Lot# 9944
 Misc : WG1785590,,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 17:14:46 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.389	152	129371	40.000	ug/ml	0.00
Standard Area 1 = 129371			Recovery = 100.00%			
35) IS1_Naphthalene-d8	4.157	136	509052	40.000	ug/ml	0.00
Standard Area 1 = 509052			Recovery = 100.00%			
63) IS1_Acenaphthene-d10	5.266	164	267488	40.000	ug/ml	0.00
Standard Area 1 = 267488			Recovery = 100.00%			
88) IS1_Phenanthrene-d10	6.217	188	549271	40.000	ug/ml	0.00
Standard Area 1 = 549271			Recovery = 100.00%			
104) IS1_Chrysene-d12	8.070	240	506716	40.000	ug/ml	0.00
Standard Area 1 = 506716			Recovery = 100.00%			
113) IS1_Perylene-d12	9.145	264	620061	40.000	ug/ml	0.00
Standard Area 1 = 620061			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.665	112	187164	54.002	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 108.00%			
7) Phenol-d6	3.171	99	242286	53.519	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 107.04%			
19) Nitrobenzene-d5	3.715	82	240973	54.533	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 218.13%#			
46) 2-Fluorobiphenyl	4.837	172	502460	51.448	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 205.79%#			
79) 2,4,6-Tribromophenol	5.770	330	87718	54.321	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 108.64%			
96) 4-Terphenyl-d14	7.286	244	691256	52.094	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 208.38%#			
Target Compounds						
2) n-Nitrosodimethylamine	1.972	74	118895	52.629	ug/ml	86
3) Pyridine	2.003	79	198535	47.785	ug/ml	95
5) Aniline	3.199	93	304803	52.069	ug/ml	93
6) 2-Chlorophenol	3.268	128	218508	53.340	ug/ml	97
8) Phenol	3.181	94	265770	53.789	ug/ml#	88
9) Bis(2-chloroethyl)ether	3.233	93	205321	51.977	ug/ml	96
10) 1,3-Dichlorobenzene	3.358	146	240088	50.631	ug/ml	98
11) 1,4-Dichlorobenzene	3.398	146	247223	49.785	ug/ml	97
12) 1,2-Dichlorobenzene	3.491	146	234876	49.388	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL7.D
 Acq On : 26 May 2023 6:16 pm
 Operator : SV124:jg
 Sample : IL4,32,,ABNL50 Lot# 9944
 Misc : WG1785590,,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 17:14:46 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	3.467	79	171765	51.311	ug/ml	94
14) Bis(2-chloroisopropyl)...	3.550	45	357581	52.990	ug/ml#	75
15) 2-Methylphenol	3.532	108	198027	51.610	ug/ml	99
16) Hexachloroethane	3.693	117	100297	52.128	ug/ml	85
17) n-Nitrosodi-n-propylamine	3.634	70	164191	53.837	ug/ml	97
18) 3-Methylphenol/4-Methy...	3.625	108	206606	52.975	ug/ml	97
20) Nitrobenzene	3.728	77	238700	53.011	ug/ml	98
21) Isophorone	3.880	82	431995	54.212	ug/ml	99
22) 2-Nitrophenol	3.923	139	111462	55.733	ug/ml	97
23) 2,4-Dimethylphenol	3.948	107	228497	53.953	ug/ml	99
24) Bis(2-chloroethoxy)met...	4.007	93	272447	53.521	ug/ml	98
25) 2,4-Dichlorophenol	4.070	162	190927	53.139	ug/ml	97
26) 1,2,4-Trichlorobenzene	4.122	180	212475	50.188	ug/ml	97
36) Naphthalene	4.169	128	661315	51.375	ug/ml	100
37) Benzoic Acid	4.007	105	150691	48.183	ug/ml	96
38) 4-Chloroaniline	4.206	65	88063	55.193	ug/ml	93
39) Hexachlorobutadiene	4.253	225	133239	51.920	ug/ml	98
40) p-Chloro-m-cresol	4.505	107	191889	55.178	ug/ml	96
41) 2-Methylnaphthalene	4.604	142	432654	51.909	ug/ml	97
42) 1-Methylnaphthalene	4.666	115	156123	51.664	ug/ml	92
43) Hexachlorocyclopentadiene	4.710	237	173555	52.535	ug/ml	96
44) 2,4,6-Trichlorophenol	4.784	196	146889	56.598	ug/ml	94
45) 2,4,5-Trichlorophenol	4.806	196	159297	55.755	ug/ml	97
47) 2-Chloronaphthalene	4.912	162	442809	52.690	ug/ml	97
48) 2-Nitroaniline	4.977	138	128019	52.521	ug/ml	98
49) 1,4-Dinitrobenzene	5.055	168	62622	54.955	ug/ml	92
50) 1,3-Dinitrobenzene	5.111	168	70648	53.394	ug/ml	96
51) Dimethyl phthalate	5.095	163	512762	51.918	ug/ml	99
52) Acenaphthylene	5.176	152	684658	52.030	ug/ml	99
53) 2,6-Dinitrotoluene	5.126	165	106820	54.437	ug/ml	98
54) 1,2-Dinitrobenzene	5.167	168	47331	53.249	ug/ml	98
64) 3-Nitroaniline	5.238	138	116963	54.293	ug/ml	94
65) Acenaphthene	5.288	154	412548	51.858	ug/ml	98
66) 2,4-Dinitrophenol	5.303	184	66672	46.236	ug/ml	90
67) Dibenzofuran	5.397	168	637034	51.452	ug/ml	93
68) 2,4-Dinitrotoluene	5.387	165	145254	50.834	ug/ml	97
69) 4-Nitrophenol	5.344	65	97845	51.514	ug/ml	96
70) 2,3,5,6-Tetrachlorophenol	5.450	232	135380	55.613	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL7.D
 Acq On : 26 May 2023 6:16 pm
 Operator : SV124:jg
 Sample : IL4,32,,ABNL50 Lot# 9944
 Misc : WG1785590,,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 17:14:46 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	5.478	232	134738	53.605	ug/ml	99
72) Diethyl phthalate	5.546	149	546763	54.505	ug/ml	100
73) Fluorene	5.614	166	529388	51.710	ug/ml	100
74) 4-Chlorophenyl phenyl ...	5.614	204	260755	52.682	ug/ml	88
75) 4-Nitroaniline	5.633	138	113392	47.786	ug/ml	94
76) 4,6-Dinitro-o-cresol	5.652	198	81493	52.199	ug/ml	85
77) NDPA/DPA	5.689	169	421284	52.222	ug/ml	96
78) Azobenzene	5.714	77	540977	54.720	ug/ml	99
80) 4-Bromophenyl phenyl e...	5.928	248	152667	51.830	ug/ml#	86
81) Hexachlorobenzene	5.975	284	178955	49.608	ug/ml	92
82) Pentachlorophenol	6.099	266	103376	46.068	ug/ml	98
89) Phenanthrene	6.233	178	764657	52.500	ug/ml	99
90) Anthracene	6.267	178	787640	53.656	ug/ml	99
91) Carbazole	6.370	167	700854	54.476	ug/ml	99
92) Di-n-butylphthalate	6.600	149	949876	58.973	ug/ml	99
93) Fluoranthene	7.019	202	861204	51.336	ug/ml	96
94) Benzidine	7.112	184	529687	54.127	ug/ml#	96
95) Pyrene	7.178	202	906577	51.748	ug/ml	100
97) Butyl benzyl phthalate	7.644	149	400577	54.304	ug/ml	95
105) Benzo(a)anthracene	8.060	228	916268	53.578	ug/ml	99
106) 3,3'-Dichlorobenzidine	8.042	252	334992	55.526	ug/ml#	95
107) Chrysene	8.088	228	868859	51.757	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	8.085	149	705113	51.816	ug/ml#	96
109) Di-n-octylphthalate	8.576	149	1091388	50.654	ug/ml	98
110) Benzo(b)fluoranthene	8.868	252	931887	53.682	ug/ml#	97
111) Benzo(k)fluoranthene	8.890	252	961361	57.060	ug/ml#	97
112) Benzo(a)pyrene	9.105	252	844501	57.351	ug/ml#	96
114) Indeno(1,2,3-cd)pyrene	9.857	276	1157783	57.320	ug/mL	98
115) Dibenzo(a,h)anthracene	9.860	278	1032609	57.462	ug/ml#	93
116) Benzo(ghi)perylene	10.028	276	997860	56.255	ug/ml#	89

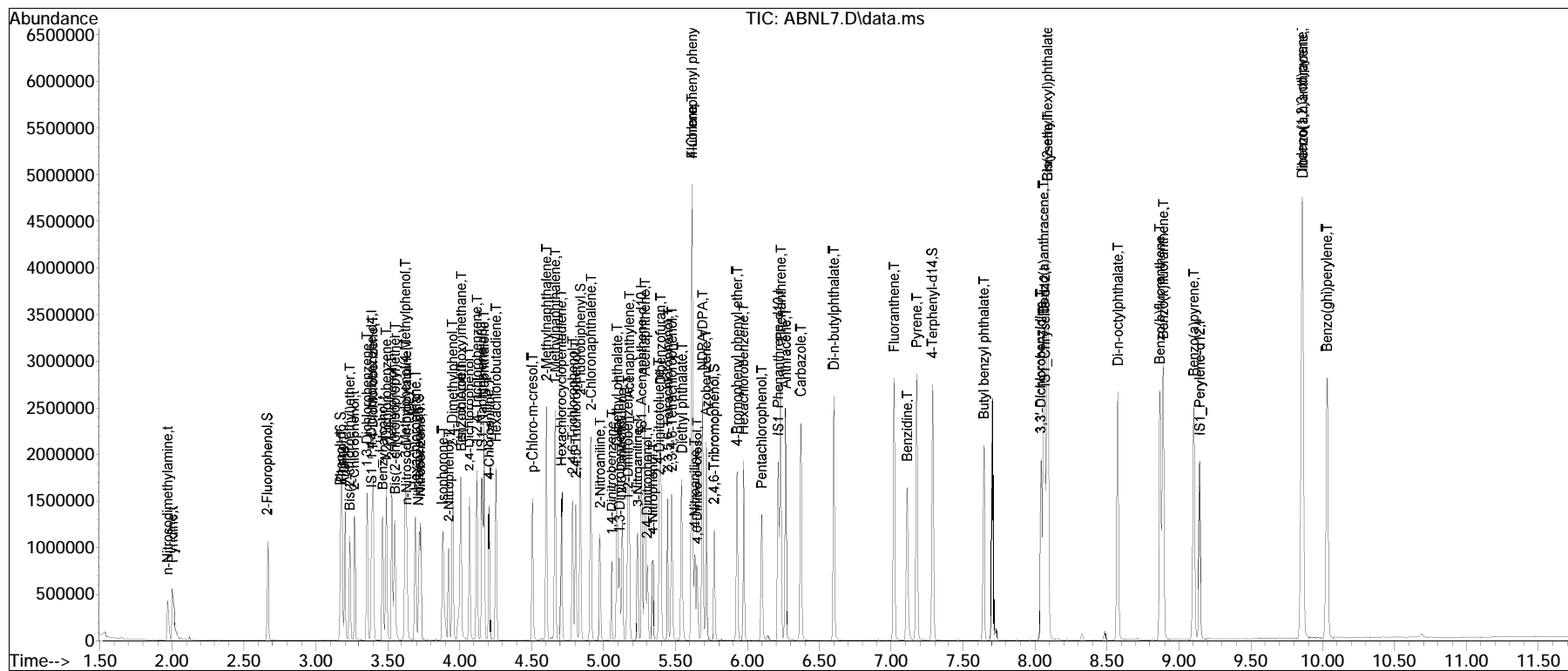
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL7.D
 Acq On : 26 May 2023 6:16 pm
 Operator : SV124:jg
 Sample : IL4,32,,ABNL50 Lot# 9944
 Misc : WG1785590,,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 17:14:46 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ABNL7.D Operator : SV124:jg
Date Inj'd : 5/26/2023 6:16 pm Instrument : SV124
Sample : IL4,32,,ABNL50 Lot# 9944 Quant Date : 5/31/2023 5:14 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL6.D
 Acq On : 26 May 2023 6:33 pm
 Operator : SV124:jg
 Sample : IL5,32,,ABNL20 Lot# 9945
 Misc : WG1785590,,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 17:14:37 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.392	152	113189	40.000	ug/ml	0.00
Standard Area 1 = 129371			Recovery =	87.49%		
35) IS1_Naphthalene-d8	4.157	136	451556	40.000	ug/ml	# 0.00
Standard Area 1 = 509052			Recovery =	88.71%		
63) IS1_Acenaphthene-d10	5.266	164	242878	40.000	ug/ml	0.00
Standard Area 1 = 267488			Recovery =	90.80%		
88) IS1_Phenanthrene-d10	6.217	188	510316	40.000	ug/ml	0.00
Standard Area 1 = 549271			Recovery =	92.91%		
104) IS1_Chrysene-d12	8.067	240	488200	40.000	ug/ml	0.00
Standard Area 1 = 506716			Recovery =	96.35%		
113) IS1_Perylene-d12	9.145	264	600397	40.000	ug/ml	0.00
Standard Area 1 = 620061			Recovery =	96.83%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.665	112	60873	20.075	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	40.15%		
7) Phenol-d6	3.171	99	78338	19.778	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	39.56%		
19) Nitrobenzene-d5	3.718	82	76326	19.742	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	78.97%		
46) 2-Fluorobiphenyl	4.840	172	165830	19.142	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	76.57%		
79) 2,4,6-Tribromophenol	5.770	330	28491	19.431	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	38.86%		
96) 4-Terphenyl-d14	7.286	244	223365	18.118	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	72.47%		
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.972	74	40361	20.420	ug/ml	89
3) Pyridine	2.015	79	65723	18.794	ug/ml	88
5) Aniline	3.202	93	101445	19.807	ug/ml	93
6) 2-Chlorophenol	3.271	128	71318	19.898	ug/ml	96
8) Phenol	3.178	94	87056	20.138	ug/ml#	89
9) Bis(2-chloroethyl)ether	3.237	93	66193	19.152	ug/ml	95
10) 1,3-Dichlorobenzene	3.361	146	78985	19.038	ug/ml	97
11) 1,4-Dichlorobenzene	3.401	146	84239	19.389	ug/ml	98
12) 1,2-Dichlorobenzene	3.495	146	80544	19.358	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL6.D
 Acq On : 26 May 2023 6:33 pm
 Operator : SV124:jg
 Sample : IL5,32,,ABNL20 Lot# 9945
 Misc : WG1785590,,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 17:14:37 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	3.470	79	53611	19.821	ug/ml	93
14) Bis(2-chloroisopropyl)...	3.554	45	112996	19.139	ug/ml#	76
15) 2-Methylphenol	3.532	108	63430	18.895	ug/ml	97
16) Hexachloroethane	3.693	117	31986	19.001	ug/ml#	82
17) n-Nitrosodi-n-propylamine	3.641	70	49034	18.377	ug/ml	99
18) 3-Methylphenol/4-Methy...	3.625	108	69143	20.263	ug/ml	98
20) Nitrobenzene	3.731	77	75966	19.283	ug/ml	97
21) Isophorone	3.889	82	139922	20.069	ug/ml	98
22) 2-Nitrophenol	3.927	139	35365	20.211	ug/ml	96
23) 2,4-Dimethylphenol	3.951	107	73038	19.711	ug/ml	99
24) Bis(2-chloroethoxy)met...	4.014	93	86130	19.339	ug/ml	98
25) 2,4-Dichlorophenol	4.073	162	62302	19.819	ug/ml	96
26) 1,2,4-Trichlorobenzene	4.125	180	69852	18.858	ug/ml	98
36) Naphthalene	4.169	128	220471	19.308	ug/ml	100
37) Benzoic Acid	3.995	105	36551	17.175	ug/ml	97
38) 4-Chloroaniline	4.209	65	27805	19.646	ug/ml	88
39) Hexachlorobutadiene	4.256	225	43042	18.908	ug/ml	100
40) p-Chloro-m-cresol	4.505	107	62419	20.234	ug/ml	97
41) 2-Methylnaphthalene	4.607	142	142162	19.228	ug/ml	98
42) 1-Methylnaphthalene	4.669	115	49565	18.490	ug/ml	86
43) Hexachlorocyclopentadiene	4.713	237	53932	18.404	ug/ml	95
44) 2,4,6-Trichlorophenol	4.788	196	45468	19.750	ug/ml	97
45) 2,4,5-Trichlorophenol	4.806	196	51080	20.155	ug/ml	96
47) 2-Chloronaphthalene	4.912	162	143842	19.295	ug/ml	97
48) 2-Nitroaniline	4.980	138	41016	18.970	ug/ml	95
49) 1,4-Dinitrobenzene	5.058	168	19645	19.435	ug/ml	92
50) 1,3-Dinitrobenzene	5.111	168	22651	19.299	ug/ml	96
51) Dimethyl phthalate	5.095	163	173710	19.828	ug/ml	98
52) Acenaphthylene	5.176	152	226283	19.386	ug/ml	98
53) 2,6-Dinitrotoluene	5.129	165	34191	19.643	ug/ml	98
54) 1,2-Dinitrobenzene	5.167	168	15367	19.490	ug/ml	97
64) 3-Nitroaniline	5.238	138	37476	19.159	ug/ml	93
65) Acenaphthene	5.288	154	144968	20.069	ug/ml	97
66) 2,4-Dinitrophenol	5.303	184	19628	17.327	ug/ml	93
67) Dibenzofuran	5.397	168	213507	18.992	ug/ml	91
68) 2,4-Dinitrotoluene	5.390	165	46881	19.568	ug/ml	98
69) 4-Nitrophenol	5.341	65	30883	19.714	ug/ml	96
70) 2,3,5,6-Tetrachlorophenol	5.450	232	43387	19.629	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL6.D
 Acq On : 26 May 2023 6:33 pm
 Operator : SV124:jg
 Sample : IL5,32,,ABNL20 Lot# 9945
 Misc : WG1785590,,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 17:14:37 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	5.478	232	45463	19.920	ug/ml	96
72) Diethyl phthalate	5.549	149	175505	19.268	ug/ml	100
73) Fluorene	5.614	166	172819	18.591	ug/ml	98
74) 4-Chlorophenyl phenyl ...	5.614	204	84057	18.703	ug/ml	89
75) 4-Nitroaniline	5.630	138	36762	17.975	ug/ml	93
76) 4,6-Dinitro-o-cresol	5.652	198	24062	16.974	ug/ml	93
77) NDPA/DPA	5.689	169	139770	19.081	ug/ml	94
78) Azobenzene	5.714	77	176930	19.710	ug/ml	99
80) 4-Bromophenyl phenyl e...	5.928	248	49793	18.617	ug/ml#	85
81) Hexachlorobenzene	5.975	284	60333	18.420	ug/ml#	92
82) Pentachlorophenol	6.099	266	30925	16.607	ug/ml	96
89) Phenanthrene	6.233	178	259060	19.144	ug/ml	99
90) Anthracene	6.267	178	265152	19.441	ug/ml	98
91) Carbazole	6.370	167	237587	19.877	ug/ml	99
92) Di-n-butylphthalate	6.600	149	282250	18.861	ug/ml	100
93) Fluoranthene	7.019	202	296219	19.006	ug/ml#	96
94) Benzidine	7.112	184	170586	21.161	ug/ml#	97
95) Pyrene	7.178	202	315173	19.364	ug/ml	99
97) Butyl benzyl phthalate	7.641	149	123816	20.173	ug/ml	95
105) Benzo(a)anthracene	8.057	228	319202	19.373	ug/ml	98
106) 3,3'-Dichlorobenzidine	8.042	252	114345	19.672	ug/ml#	95
107) Chrysene	8.085	228	306454	18.948	ug/ml	100
108) Bis(2-ethylhexyl)phtha...	8.085	149	198040	16.314	ug/ml	97
109) Di-n-octylphthalate	8.576	149	313903	16.477	ug/ml	97
110) Benzo(b)fluoranthene	8.868	252	344540	20.600	ug/ml#	95
111) Benzo(k)fluoranthene	8.887	252	318161	19.600	ug/ml	97
112) Benzo(a)pyrene	9.102	252	287815	20.287	ug/ml#	95
114) Indeno(1,2,3-cd)pyrene	9.851	276	389037	19.891	ug/mL	98
115) Dibenzo(a,h)anthracene	9.857	278	342697	19.695	ug/ml#	93
116) Benzo(ghi)perylene	10.025	276	341859	19.904	ug/ml#	87

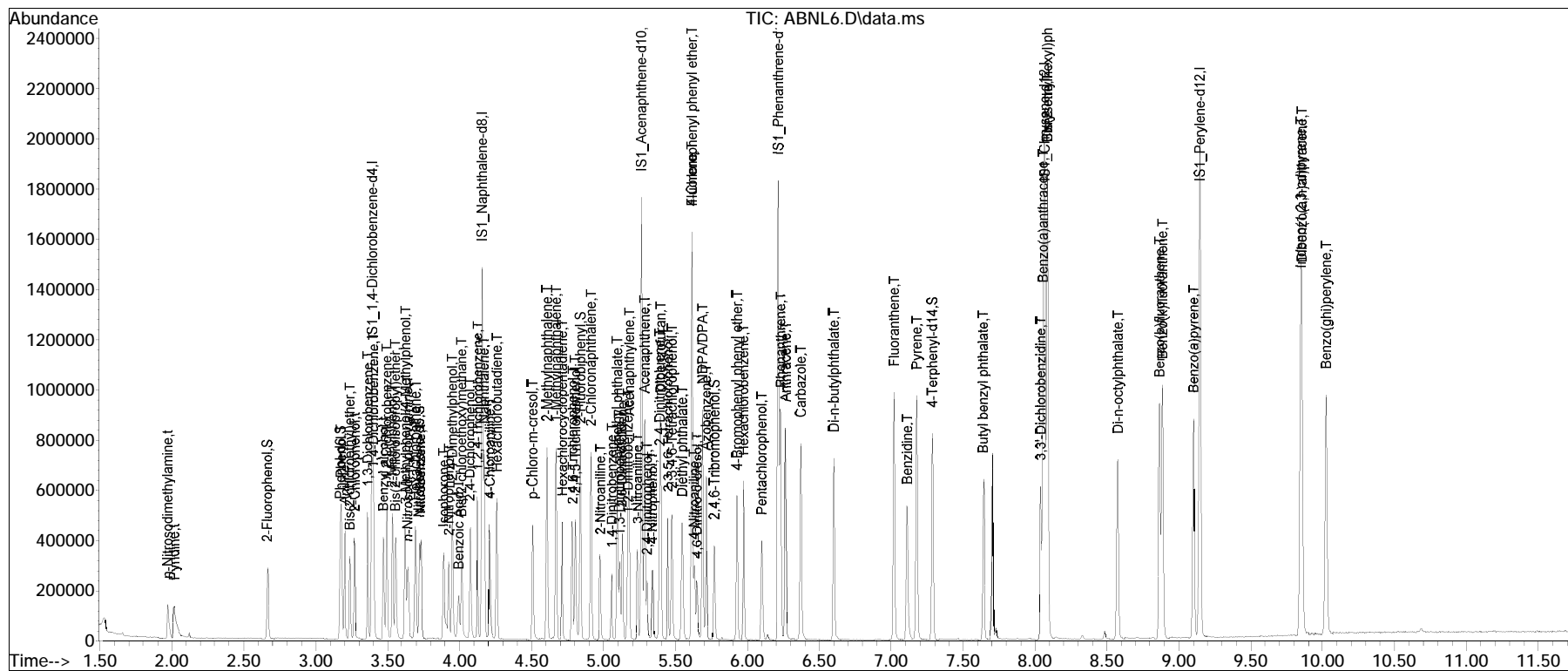
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL6.D
 Acq On : 26 May 2023 6:33 pm
 Operator : SV124:jg
 Sample : IL5,32,,ABNL20 Lot# 9945
 Misc : WG1785590,,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 17:14:37 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ABNL6.D Operator : SV124:jg
Date Inj'd : 5/26/2023 6:33 pm Instrument : SV124
Sample : IL5,32,,ABNL20 Lot# 9945 Quant Date : 5/31/2023 5:14 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL5.D
 Acq On : 26 May 2023 6:50 pm
 Operator : SV124:jg
 Sample : IL6,32,,ABNL10 Lot# 9946
 Misc : WG1785590,,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 17:14:27 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.392	152	120317	40.000	ug/ml	0.00
Standard Area 1 = 129371			Recovery =	93.00%		
35) IS1_Naphthalene-d8	4.160	136	493900	40.000	ug/ml	# 0.00
Standard Area 1 = 509052			Recovery =	97.02%		
63) IS1_Acenaphthene-d10	5.266	164	273528	40.000	ug/ml	0.00
Standard Area 1 = 267488			Recovery =	102.26%		
88) IS1_Phenanthrene-d10	6.217	188	603640	40.000	ug/ml	0.00
Standard Area 1 = 549271			Recovery =	109.90%		
104) IS1_Chrysene-d12	8.067	240	580562	40.000	ug/ml	0.00
Standard Area 1 = 506716			Recovery =	114.57%		
113) IS1_Perylene-d12	9.145	264	709683	40.000	ug/ml	0.00
Standard Area 1 = 620061			Recovery =	114.45%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.658	112	31632	9.814	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	19.63%		
7) Phenol-d6	3.171	99	40357	9.585	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	19.17%		
19) Nitrobenzene-d5	3.721	82	39221	9.544	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	38.18%		
46) 2-Fluorobiphenyl	4.840	172	92904	9.804	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	39.22%		
79) 2,4,6-Tribromophenol	5.770	330	14988	9.077	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	18.15%		
96) 4-Terphenyl-d14	7.286	244	137300	9.415	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	37.66%		
Target Compounds						
2) n-Nitrosodimethylamine	1.972	74	20465	9.741	ug/ml	89
3) Pyridine	2.031	79	29712	8.653	ug/ml	91
5) Aniline	3.202	93	52181	9.585	ug/ml	94
6) 2-Chlorophenol	3.271	128	37099	9.738	ug/ml	96
8) Phenol	3.178	94	44177	9.614	ug/ml#	90
9) Bis(2-chloroethyl)ether	3.240	93	35219	9.587	ug/ml	97
10) 1,3-Dichlorobenzene	3.361	146	43515	9.867	ug/ml	96
11) 1,4-Dichlorobenzene	3.401	146	43445	9.407	ug/ml	100
12) 1,2-Dichlorobenzene	3.495	146	42605	9.633	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL5.D
 Acq On : 26 May 2023 6:50 pm
 Operator : SV124:jg
 Sample : IL6,32,,ABNL10 Lot# 9946
 Misc : WG1785590,,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 17:14:27 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	3.473	79	24800	9.354	ug/ml	90
14) Bis(2-chloroisopropyl)...	3.557	45	59907	9.546	ug/ml#	76
15) 2-Methylphenol	3.535	108	34836	9.762	ug/ml	99
16) Hexachloroethane	3.693	117	17954	10.034	ug/ml	86
17) n-Nitrosodi-n-propylamine	3.650	70	26250	9.255	ug/ml	99
18) 3-Methylphenol/4-Methy...	3.625	108	34230	9.437	ug/ml	99
20) Nitrobenzene	3.731	77	40170	9.592	ug/ml	97
21) Isophorone	3.895	82	74752	10.087	ug/ml	97
22) 2-Nitrophenol	3.930	139	17731	9.533	ug/ml	98
23) 2,4-Dimethylphenol	3.951	107	38395	9.748	ug/ml	97
24) Bis(2-chloroethoxy)met...	4.020	93	46547	9.832	ug/ml#	98
25) 2,4-Dichlorophenol	4.076	162	33039	9.887	ug/ml	96
26) 1,2,4-Trichlorobenzene	4.125	180	38244	9.713	ug/ml	97
36) Naphthalene	4.172	128	118156	9.461	ug/ml	99
37) Benzoic Acid	3.989	105	13294	9.385	ug/ml	91
38) 4-Chloroaniline	4.209	65	15188	9.811	ug/ml	89
39) Hexachlorobutadiene	4.259	225	23786	9.553	ug/ml	99
40) p-Chloro-m-cresol	4.508	107	31041	9.200	ug/ml	91
41) 2-Methylnaphthalene	4.607	142	77446	9.577	ug/ml	98
42) 1-Methylnaphthalene	4.669	115	28029	9.560	ug/ml	93
43) Hexachlorocyclopentadiene	4.713	237	29989	9.356	ug/ml	98
44) 2,4,6-Trichlorophenol	4.787	196	24634	9.783	ug/ml	93
45) 2,4,5-Trichlorophenol	4.806	196	27571	9.946	ug/ml	95
47) 2-Chloronaphthalene	4.912	162	80996	9.933	ug/ml	95
48) 2-Nitroaniline	4.980	138	21429	9.061	ug/ml	97
49) 1,4-Dinitrobenzene	5.058	168	10532	9.526	ug/ml	93
50) 1,3-Dinitrobenzene	5.114	168	12027	9.369	ug/ml	99
51) Dimethyl phthalate	5.098	163	93110	9.717	ug/ml	100
52) Acenaphthylene	5.176	152	122765	9.616	ug/ml	100
53) 2,6-Dinitrotoluene	5.129	165	18331	9.628	ug/ml	95
54) 1,2-Dinitrobenzene	5.167	168	8311	9.637	ug/ml	96
64) 3-Nitroaniline	5.238	138	19377	8.796	ug/ml	96
65) Acenaphthene	5.288	154	81741	10.048	ug/ml	96
66) 2,4-Dinitrophenol	5.303	184	9865	9.647	ug/ml	96
67) Dibenzofuran	5.397	168	118586	9.366	ug/ml	92
68) 2,4-Dinitrotoluene	5.390	165	24898	9.744	ug/ml	95
69) 4-Nitrophenol	5.341	65	15472	9.510	ug/ml	94
70) 2,3,5,6-Tetrachlorophenol	5.450	232	24083	9.675	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL5.D
 Acq On : 26 May 2023 6:50 pm
 Operator : SV124:jg
 Sample : IL6,32,,ABNL10 Lot# 9946
 Misc : WG1785590,,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 17:14:27 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	5.478	232	22957	8.932	ug/ml	97
72) Diethyl phthalate	5.552	149	97725	9.527	ug/ml	99
73) Fluorene	5.614	166	96385	9.207	ug/ml	100
74) 4-Chlorophenyl phenyl ...	5.614	204	47409	9.367	ug/ml	90
75) 4-Nitroaniline	5.630	138	19405	9.179	ug/ml	99
76) 4,6-Dinitro-o-cresol	5.652	198	13264	8.308	ug/ml#	85
77) NDPA/DPA	5.689	169	80650	9.776	ug/ml	98
78) Azobenzene	5.717	77	95850	9.481	ug/ml	98
80) 4-Bromophenyl phenyl e...	5.928	248	28573	9.486	ug/ml#	84
81) Hexachlorobenzene	5.975	284	35760	9.694	ug/ml#	90
82) Pentachlorophenol	6.099	266	17968	9.600	ug/ml	94
89) Phenanthrene	6.233	178	149651	9.349	ug/ml	100
90) Anthracene	6.267	178	150781	9.346	ug/ml	99
91) Carbazole	6.370	167	132623	9.380	ug/ml	99
92) Di-n-butylphthalate	6.600	149	161191	9.106	ug/ml	98
93) Fluoranthene	7.019	202	172553	9.359	ug/ml#	96
94) Benzidine	7.112	184	95063	10.485	ug/ml	97
95) Pyrene	7.178	202	181649	9.435	ug/ml	100
97) Butyl benzyl phthalate	7.644	149	68767	9.905	ug/ml	96
105) Benzo(a)anthracene	8.057	228	187494	9.569	ug/ml	98
106) 3,3'-Dichlorobenzidine	8.039	252	62549	9.049	ug/ml#	98
107) Chrysene	8.085	228	179865	9.352	ug/ml	100
108) Bis(2-ethylhexyl)phtha...	8.085	149	112959	8.514	ug/ml	97
109) Di-n-octylphthalate	8.576	149	178711	8.896	ug/ml	97
110) Benzo(b)fluoranthene	8.865	252	193000	9.704	ug/ml#	96
111) Benzo(k)fluoranthene	8.887	252	191545	9.923	ug/ml#	96
112) Benzo(a)pyrene	9.102	252	165774	9.826	ug/ml#	96
114) Indeno(1,2,3-cd)pyrene	9.851	276	207390	8.971	ug/mL	99
115) Dibenzo(a,h)anthracene	9.854	278	183608	8.927	ug/ml#	93
116) Benzo(ghi)perylene	10.022	276	187858	9.253	ug/ml#	89

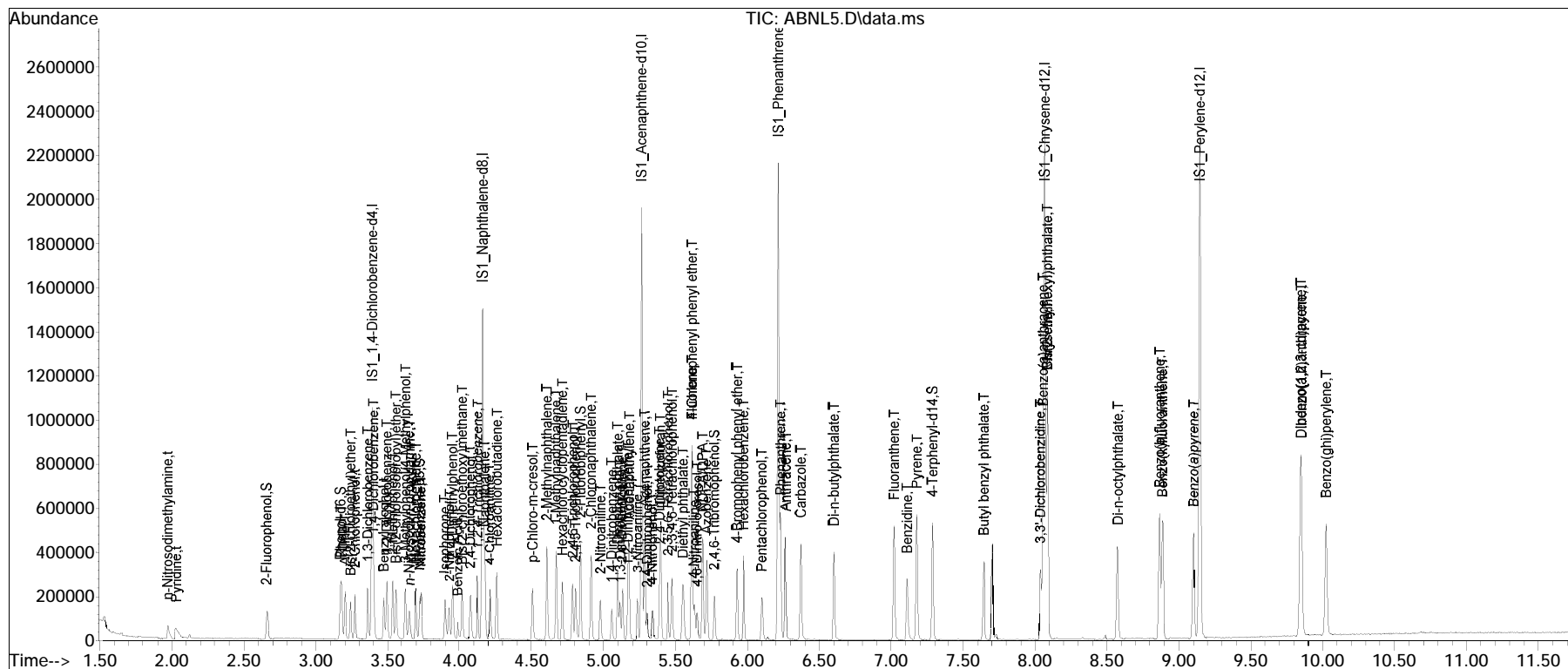
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL5.D
 Acq On : 26 May 2023 6:50 pm
 Operator : SV124:jg
 Sample : IL6,32,,ABNL10 Lot# 9946
 Misc : WG1785590,,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 17:14:27 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ABNL5.D Operator : SV124:jg
Date Inj'd : 5/26/2023 6:50 pm Instrument : SV124
Sample : IL6,32,,ABNL10 Lot# 9946 Quant Date : 5/31/2023 5:14 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL4.D
 Acq On : 26 May 2023 7:07 pm
 Operator : SV124:jg
 Sample : IL7,32,,ABNL5 Lot# 9947
 Misc : WG1785590,,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 17:14:15 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.392	152	105466	40.000	ug/ml	0.00
Standard Area 1 = 129371			Recovery =	81.52%		
35) IS1_Naphthalene-d8	4.160	136	427247	40.000	ug/ml	0.00
Standard Area 1 = 509052			Recovery =	83.93%		
63) IS1_Acenaphthene-d10	5.266	164	236620	40.000	ug/ml	0.00
Standard Area 1 = 267488			Recovery =	88.46%		
88) IS1_Phenanthrene-d10	6.217	188	524717	40.000	ug/ml	0.00
Standard Area 1 = 549271			Recovery =	95.53%		
104) IS1_Chrysene-d12	8.067	240	509300	40.000	ug/ml	# 0.00
Standard Area 1 = 506716			Recovery =	100.51%		
113) IS1_Perylene-d12	9.142	264	623857	40.000	ug/ml	0.00
Standard Area 1 = 620061			Recovery =	100.61%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.659	112	13410	4.746	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	9.49%#		
7) Phenol-d6	3.172	99	16892	4.577	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	9.15%#		
19) Nitrobenzene-d5	3.725	82	16873	4.684	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	18.74%#		
46) 2-Fluorobiphenyl	4.841	172	40905	4.990	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	19.96%#		
79) 2,4,6-Tribromophenol	5.770	330	6321	4.425	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	8.85%#		
96) 4-Terphenyl-d14	7.287	244	61132	4.823	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	19.29%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.978	74	8288	4.500	ug/ml	87
3) Pyridine	2.046	79	15112M1	5.503	ug/ml	
5) Aniline	3.206	93	22264	4.665	ug/ml	91
6) 2-Chlorophenol	3.271	128	16166	4.841	ug/ml	94
8) Phenol	3.178	94	17949	4.456	ug/ml#	92
9) Bis(2-chloroethyl)ether	3.246	93	14066	4.368	ug/ml#	91
10) 1,3-Dichlorobenzene	3.361	146	19182	4.962	ug/ml	95
11) 1,4-Dichlorobenzene	3.402	146	20164	4.981	ug/ml	97
12) 1,2-Dichlorobenzene	3.498	146	19326	4.985	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL4.D
 Acq On : 26 May 2023 7:07 pm
 Operator : SV124:jg
 Sample : IL7,32,,ABNL5 Lot# 9947
 Misc : WG1785590,,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 17:14:15 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	3.479	79	9549	4.731	ug/ml	94
14) Bis(2-chloroisopropyl)...	3.560	45	24757	4.500	ug/ml#	75
15) 2-Methylphenol	3.535	108	14529	4.645	ug/ml	97
16) Hexachloroethane	3.697	117	7201	4.591	ug/ml#	75
17) n-Nitrosodi-n-propylamine	3.666	70	11425	4.595	ug/ml	95
18) 3-Methylphenol/4-Methy...	3.628	108	14833	4.665	ug/ml#	98
20) Nitrobenzene	3.737	77	17498	4.767	ug/ml	96
21) Isophorone	3.908	82	26720	4.113	ug/ml	97
22) 2-Nitrophenol	3.936	139	6951	4.263	ug/ml	93
23) 2,4-Dimethylphenol	3.958	107	16718	4.842	ug/ml	93
24) Bis(2-chloroethoxy)met...	4.026	93	18928	4.561	ug/ml	98
25) 2,4-Dichlorophenol	4.079	162	13360	4.561	ug/ml	93
26) 1,2,4-Trichlorobenzene	4.132	180	17055	4.942	ug/ml	98
36) Naphthalene	4.172	128	52632	4.872	ug/ml	98
37) Benzoic Acid	3.992	105	2079	6.206	ug/ml#	67
38) 4-Chloroaniline	4.216	65	6419	4.793	ug/ml	91
39) Hexachlorobutadiene	4.266	225	10638	4.939	ug/ml	98
40) p-Chloro-m-cresol	4.508	107	13040	4.468	ug/ml	98
41) 2-Methylnaphthalene	4.611	142	32627	4.664	ug/ml	95
42) 1-Methylnaphthalene	4.673	115	12188	4.805	ug/ml	92
43) Hexachlorocyclopentadiene	4.716	237	12740	4.595	ug/ml#	95
44) 2,4,6-Trichlorophenol	4.788	196	9504	4.363	ug/ml	97
45) 2,4,5-Trichlorophenol	4.810	196	10577	4.411	ug/ml	100
47) 2-Chloronaphthalene	4.915	162	34263	4.858	ug/ml	97
48) 2-Nitroaniline	4.984	138	8258	4.037	ug/ml	96
49) 1,4-Dinitrobenzene	5.061	168	4303	4.499	ug/ml	90
50) 1,3-Dinitrobenzene	5.114	168	4725	4.255	ug/ml	85
51) Dimethyl phthalate	5.102	163	40320	4.864	ug/ml	98
52) Acenaphthylene	5.176	152	52665	4.769	ug/ml	99
53) 2,6-Dinitrotoluene	5.133	165	7758	4.711	ug/ml	98
54) 1,2-Dinitrobenzene	5.173	168	3560	4.772	ug/ml	98
64) 3-Nitroaniline	5.238	138	7765	4.075	ug/ml	95
65) Acenaphthene	5.288	154	31511	4.478	ug/ml	91
66) 2,4-Dinitrophenol	5.307	184	3812	6.222	ug/ml	89
67) Dibenzofuran	5.400	168	51406	4.694	ug/ml	94
68) 2,4-Dinitrotoluene	5.391	165	9566	4.730	ug/ml	91
69) 4-Nitrophenol	5.341	65	6667	5.283	ug/ml	91
70) 2,3,5,6-Tetrachlorophenol	5.453	232	9299	4.318	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL4.D
 Acq On : 26 May 2023 7:07 pm
 Operator : SV124:jg
 Sample : IL7,32,,ABNL5 Lot# 9947
 Misc : WG1785590,,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 17:14:15 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	5.478	232	9463	4.256	ug/ml	95
72) Diethyl phthalate	5.555	149	40477	4.561	ug/ml	99
73) Fluorene	5.618	166	40468	4.469	ug/ml	96
74) 4-Chlorophenyl phenyl ...	5.618	204	20667	4.720	ug/ml	88
75) 4-Nitroaniline	5.633	138	6999	4.655	ug/ml	93
76) 4,6-Dinitro-o-cresol	5.655	198	5350	3.874	ug/ml#	90
77) NDPA/DPA	5.692	169	32671	4.578	ug/ml	92
78) Azobenzene	5.714	77	39919	4.565	ug/ml	99
80) 4-Bromophenyl phenyl e...	5.928	248	12527	4.808	ug/ml#	85
81) Hexachlorobenzene	5.975	284	15715	4.925	ug/ml#	92
82) Pentachlorophenol	6.099	266	6572	5.289	ug/ml	97
89) Phenanthrene	6.230	178	67672	4.864	ug/ml	99
90) Anthracene	6.267	178	65222	4.651	ug/ml	99
91) Carbazole	6.370	167	57902	4.711	ug/ml	99
92) Di-n-butylphthalate	6.603	149	69315	4.505	ug/ml	100
93) Fluoranthene	7.019	202	75018	4.681	ug/ml#	96
94) Benzidine	7.113	184	37855	5.020	ug/ml#	96
95) Pyrene	7.178	202	78754	4.706	ug/ml	99
97) Butyl benzyl phthalate	7.644	149	30247	5.197	ug/ml	92
105) Benzo(a)anthracene	8.057	228	82615	4.806	ug/ml	99
106) 3,3'-Dichlorobenzidine	8.039	252	25518	4.208	ug/ml#	97
107) Chrysene	8.085	228	80451	4.768	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	8.085	149	45756	4.616	ug/ml	97
109) Di-n-octylphthalate	8.577	149	70873	5.081	ug/ml	97
110) Benzo(b)fluoranthene	8.866	252	80622	4.621	ug/ml#	96
111) Benzo(k)fluoranthene	8.884	252	82528	4.873	ug/ml#	96
112) Benzo(a)pyrene	9.102	252	69679	4.708	ug/ml#	96
114) Indeno(1,2,3-cd)pyrene	9.848	276	88003	4.330	ug/mL	96
115) Dibenzo(a,h)anthracene	9.854	278	78064	4.318	ug/ml#	95
116) Benzo(ghi)perylene	10.025	276	82486	4.622	ug/ml#	88

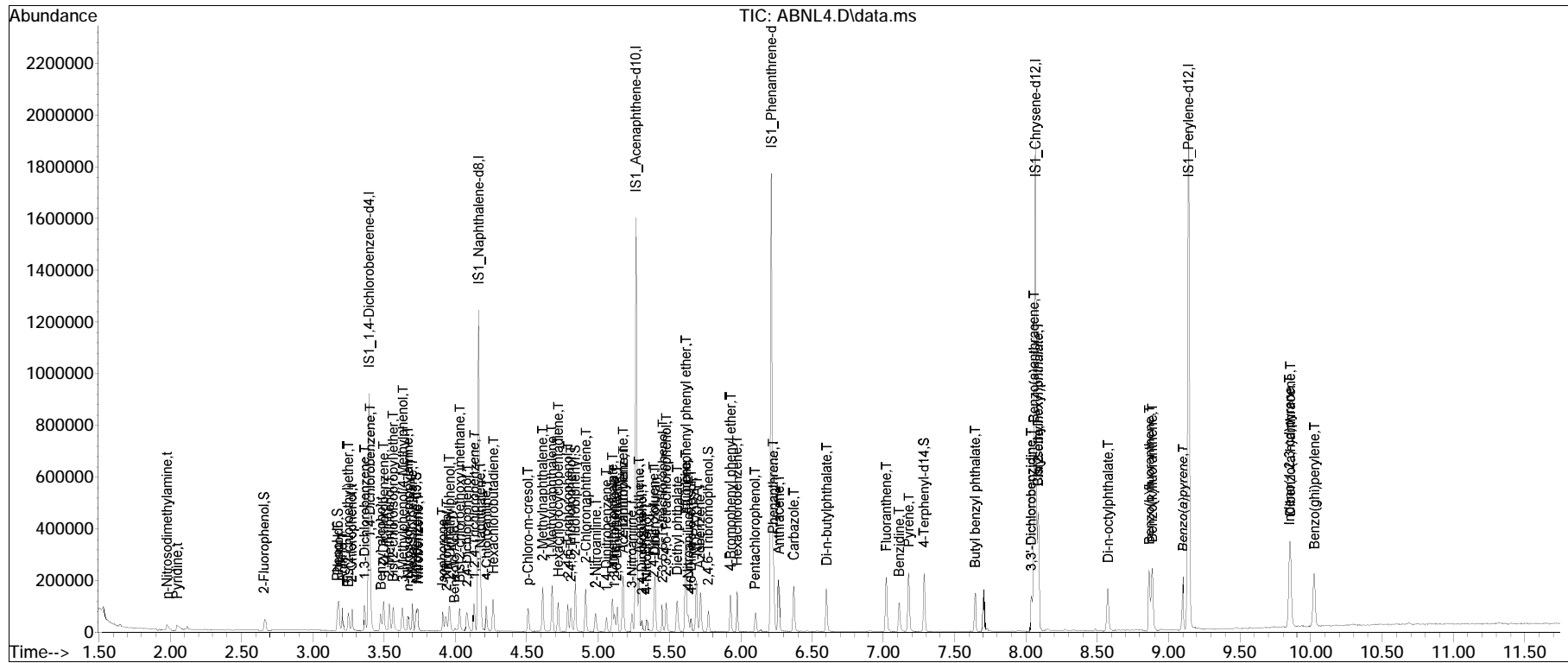
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL4.D
 Acq On : 26 May 2023 7:07 pm
 Operator : SV124:jg
 Sample : IL7,32,,ABNL5 Lot# 9947
 Misc : WG1785590,,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 17:14:15 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

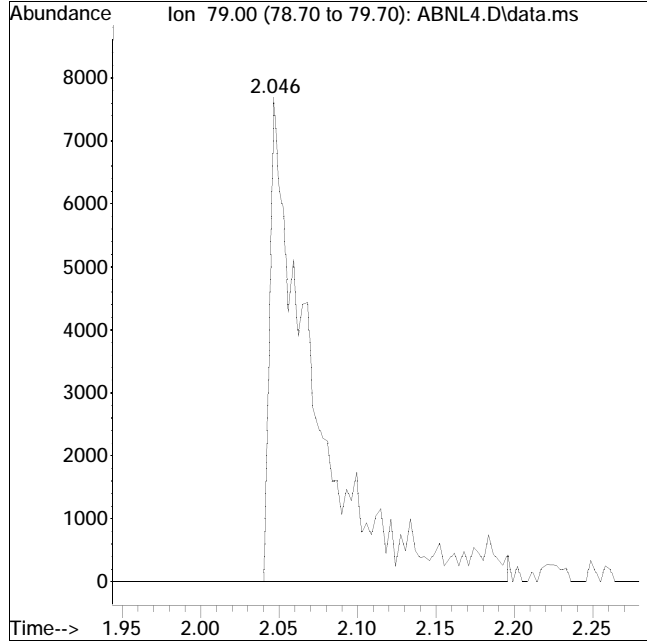
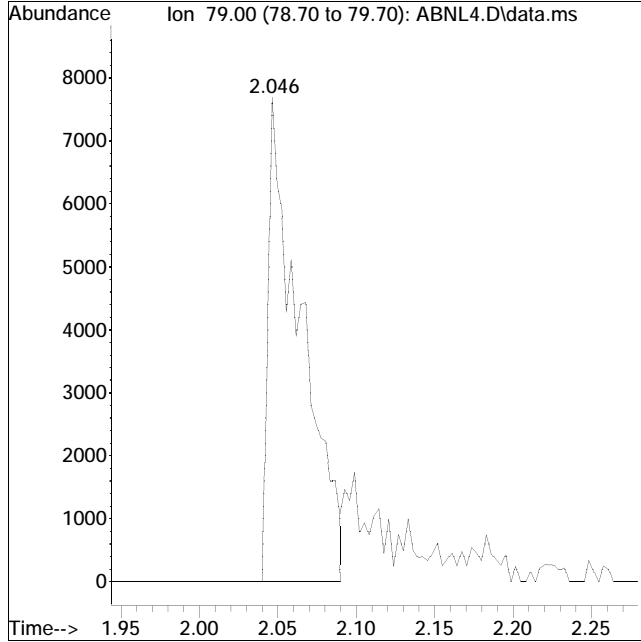
Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ABNL4.D Operator : SV124:jg
Date Inj'd : 5/26/2023 7:07 pm Instrument : SV124
Sample : IL7,32,,ABNL5 Lot# 9947 Quant Date : 5/31/2023 5:14 pm

Compound #3: Pyridine



Original Peak Response = 11126

Manual Peak Response = 15112 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL3.D
 Acq On : 26 May 2023 7:23 pm
 Operator : SV124:jg
 Sample : IL8,32,,ABNL3 Lot# 9948
 Misc : WG1785590,,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 17:14:04 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.392	152	116272	40.000	ug/ml	0.00
Standard Area 1 = 129371			Recovery =	89.87%		
35) IS1_Naphthalene-d8	4.160	136	467014	40.000	ug/ml	0.00
Standard Area 1 = 509052			Recovery =	91.74%		
63) IS1_Acenaphthene-d10	5.266	164	252799	40.000	ug/ml	0.00
Standard Area 1 = 267488			Recovery =	94.51%		
88) IS1_Phenanthrene-d10	6.217	188	544486	40.000	ug/ml	0.00
Standard Area 1 = 549271			Recovery =	99.13%		
104) IS1_Chrysene-d12	8.067	240	473597	40.000	ug/ml	0.00
Standard Area 1 = 506716			Recovery =	93.46%		
113) IS1_Perylene-d12	9.142	264	555137	40.000	ug/ml	0.00
Standard Area 1 = 620061			Recovery =	89.53%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.665	112	8226	2.641	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	5.28%#		
7) Phenol-d6	3.171	99	11425	2.808	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	5.62%#		
19) Nitrobenzene-d5	3.725	82	9826	2.474	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	9.90%#		
46) 2-Fluorobiphenyl	4.840	172	26160	2.920	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	11.68%#		
79) 2,4,6-Tribromophenol	5.773	330	4104	2.689	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	5.38%#		
96) 4-Terphenyl-d14	7.287	244	34937	2.656	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	10.62%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.978	74	5286	2.603	ug/ml#	80
3) Pyridine	2.065	79	7296M1	3.056	ug/ml	
5) Aniline	3.206	93	14106	2.681	ug/ml	93
6) 2-Chlorophenol	3.271	128	9981	2.711	ug/ml	94
8) Phenol	3.181	94	11327	2.551	ug/ml#	85
9) Bis(2-chloroethyl)ether	3.249	93	10357	2.917	ug/ml	92
10) 1,3-Dichlorobenzene	3.364	146	12489	2.930	ug/ml	99
11) 1,4-Dichlorobenzene	3.401	146	11997	2.688	ug/ml#	80
12) 1,2-Dichlorobenzene	3.501	146	13371	3.128	ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL3.D
 Acq On : 26 May 2023 7:23 pm
 Operator : SV124:jg
 Sample : IL8,32,,ABNL3 Lot# 9948
 Misc : WG1785590,,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 17:14:04 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	3.479	79	5662	3.041	ug/ml	93
14) Bis(2-chloroisopropyl)...	3.563	45	16114	2.657	ug/ml#	81
15) 2-Methylphenol	3.538	108	9495	2.753	ug/ml	98
16) Hexachloroethane	3.700	117	5473	3.165	ug/ml	91
17) n-Nitrosodi-n-propylamine	3.675	70	6639	2.422	ug/ml#	85
18) 3-Methylphenol/4-Methy...	3.628	108	8952	2.554	ug/ml#	97
20) Nitrobenzene	3.737	77	10521	2.600	ug/ml#	98
21) Isophorone	3.914	82	18783	2.623	ug/ml#	98
22) 2-Nitrophenol	3.939	139	4830	2.687	ug/ml	92
23) 2,4-Dimethylphenol	3.958	107	9639	2.532	ug/ml	94
24) Bis(2-chloroethoxy)met...	4.029	93	12802	2.798	ug/ml#	94
25) 2,4-Dichlorophenol	4.082	162	8364	2.590	ug/ml	95
26) 1,2,4-Trichlorobenzene	4.129	180	10643	2.797	ug/ml	94
36) Naphthalene	4.172	128	33659	2.850	ug/ml	99
37) Benzoic Acid	0.000		0	N.D.		
38) 4-Chloroaniline	4.219	65	3922	2.679	ug/ml	91
39) Hexachlorobutadiene	4.265	225	7089	3.011	ug/ml	96
40) p-Chloro-m-cresol	4.511	107	8219	2.576	ug/ml	97
41) 2-Methylnaphthalene	4.614	142	21591	2.824	ug/ml	95
42) 1-Methylnaphthalene	4.676	115	7588	2.737	ug/ml	85
43) Hexachlorocyclopentadiene	4.719	237	8106	2.675	ug/ml#	94
44) 2,4,6-Trichlorophenol	4.791	196	6263	2.630	ug/ml	92
45) 2,4,5-Trichlorophenol	4.809	196	7064	2.695	ug/ml	99
47) 2-Chloronaphthalene	4.915	162	21272	2.759	ug/ml	99
48) 2-Nitroaniline	4.987	138	5049	2.258	ug/ml	98
49) 1,4-Dinitrobenzene	5.064	168	2359	2.257	ug/ml	97
50) 1,3-Dinitrobenzene	5.117	168	3052	2.514	ug/ml	94
51) Dimethyl phthalate	5.102	163	24895	2.748	ug/ml	99
52) Acenaphthylene	5.176	152	33095	2.741	ug/ml	99
53) 2,6-Dinitrotoluene	5.133	165	4387	2.437	ug/ml	98
54) 1,2-Dinitrobenzene	5.176	168	1721	2.110	ug/ml	81
64) 3-Nitroaniline	5.241	138	4599	2.259	ug/ml#	90
65) Acenaphthene	5.288	154	22036	2.931	ug/ml	95
66) 2,4-Dinitrophenol	5.310	184	1877	4.731	ug/ml	95
67) Dibenzofuran	5.400	168	33053	2.825	ug/ml	95
68) 2,4-Dinitrotoluene	5.394	165	5720	2.942	ug/ml#	88
69) 4-Nitrophenol	5.341	65	3251	2.971	ug/ml	97
70) 2,3,5,6-Tetrachlorophenol	5.450	232	5302	2.305	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL3.D
 Acq On : 26 May 2023 7:23 pm
 Operator : SV124:jg
 Sample : IL8,32,,ABNL3 Lot# 9948
 Misc : WG1785590,,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 17:14:04 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	5.481	232	6317	2.659	ug/ml	94
72) Diethyl phthalate	5.555	149	25743	2.715	ug/ml	99
73) Fluorene	5.617	166	26442	2.733	ug/ml	98
74) 4-Chlorophenyl phenyl ...	5.617	204	12535	2.680	ug/ml	90
75) 4-Nitroaniline	5.633	138	4131	3.207	ug/ml#	81
76) 4,6-Dinitro-o-cresol	5.655	198	2842	1.926	ug/ml	93
77) NDPA/DPA	5.692	169	20329	2.666	ug/ml	93
78) Azobenzene	5.717	77	24168	2.587	ug/ml	97
80) 4-Bromophenyl phenyl e...	5.928	248	8142	2.925	ug/ml#	77
81) Hexachlorobenzene	5.978	284	10234	3.002	ug/ml#	84
82) Pentachlorophenol	6.105	266	3394	3.658	ug/ml	93
89) Phenanthrene	6.233	178	41041	2.843	ug/ml	97
90) Anthracene	6.267	178	38842	2.669	ug/ml	98
91) Carbazole	6.370	167	33512	2.628	ug/ml	99
92) Di-n-butylphthalate	6.603	149	39465	2.472	ug/ml	98
93) Fluoranthene	7.022	202	45140	2.714	ug/ml#	95
94) Benzidine	7.112	184	19502	2.623	ug/ml	98
95) Pyrene	7.178	202	45617	2.627	ug/ml	99
97) Butyl benzyl phthalate	7.644	149	15870	2.756	ug/ml	95
105) Benzo(a)anthracene	8.057	228	45306	2.834	ug/ml	98
106) 3,3'-Dichlorobenzidine	8.042	252	13607	2.413	ug/ml	94
107) Chrysene	8.085	228	46576	2.969	ug/ml	100
108) Bis(2-ethylhexyl)phtha...	8.085	149	24242	3.173	ug/ml#	98
109) Di-n-octylphthalate	8.573	149	38415	3.768	ug/ml#	98
110) Benzo(b)fluoranthene	8.865	252	42745	2.635	ug/ml#	97
111) Benzo(k)fluoranthene	8.884	252	43213	2.744	ug/ml	97
112) Benzo(a)pyrene	9.102	252	35786	2.600	ug/ml#	94
114) Indeno(1,2,3-cd)pyrene	9.848	276	45070	2.492	ug/mL	93
115) Dibenzo(a,h)anthracene	9.854	278	40373	2.509	ug/ml#	94
116) Benzo(ghi)perylene	10.019	276	42625	2.684	ug/ml#	92

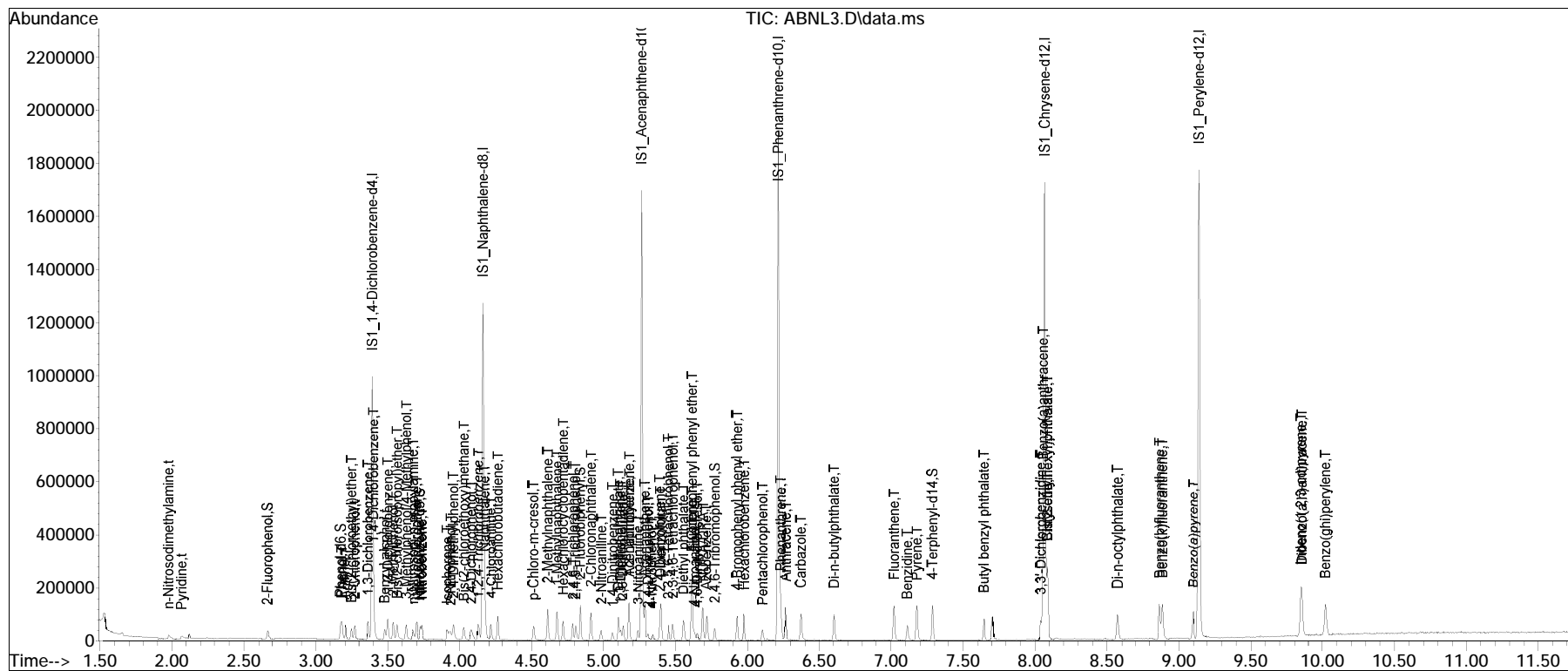
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL3.D
 Acq On : 26 May 2023 7:23 pm
 Operator : SV124:jg
 Sample : IL8,32,,ABNL3 Lot# 9948
 Misc : WG1785590,,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 17:14:04 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

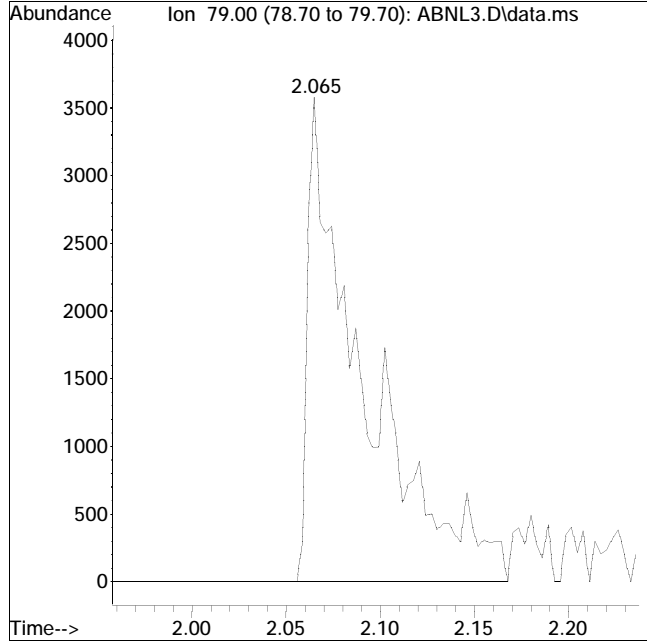
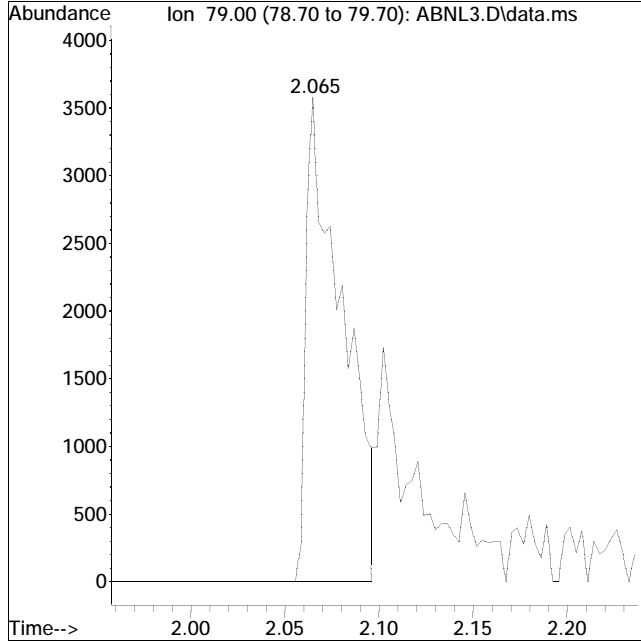
Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ABNL3.D Operator : SV124:jg
Date Inj'd : 5/26/2023 7:23 pm Instrument : SV124
Sample : IL8,32,,ABNL3 Lot# 9948 Quant Date : 5/31/2023 5:14 pm

Compound #3: Pyridine



Original Peak Response = 4785

Manual Peak Response = 7296 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL2.D
 Acq On : 26 May 2023 7:40 pm
 Operator : SV124:jg
 Sample : IL9,32,,ABNL2 Lot# 9949
 Misc : WG1785590,,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 17:13:09 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.392	152	104811	40.000	ug/ml	0.00
Standard Area 1 = 129371			Recovery =	81.02%		
35) IS1_Naphthalene-d8	4.163	136	429807	40.000	ug/ml	# 0.00
Standard Area 1 = 509052			Recovery =	84.43%		
63) IS1_Acenaphthene-d10	5.266	164	231891	40.000	ug/ml	0.00
Standard Area 1 = 267488			Recovery =	86.69%		
88) IS1_Phenanthrene-d10	6.217	188	529823	40.000	ug/ml	0.00
Standard Area 1 = 549271			Recovery =	96.46%		
104) IS1_Chrysene-d12	8.067	240	507067	40.000	ug/ml	# 0.00
Standard Area 1 = 506716			Recovery =	100.07%		
113) IS1_Perylene-d12	9.142	264	632395	40.000	ug/ml	0.00
Standard Area 1 = 620061			Recovery =	101.99%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.662	112	4762	1.696	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	3.39%#		
7) Phenol-d6	3.171	99	6095	1.662	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	3.32%#		
19) Nitrobenzene-d5	3.728	82	5901	1.648	ug/ml	0.01
Spiked Amount 25.000	Range 30 - 130		Recovery =	6.59%#		
46) 2-Fluorobiphenyl	4.844	172	15446	1.873	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	7.49%#		
79) 2,4,6-Tribromophenol	5.776	330	2285	1.632	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	3.26%#		
96) 4-Terphenyl-d14	7.287	244	23874	1.865	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	7.46%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.984	74	3067	1.676	ug/ml#	98
3) Pyridine	2.099	79	3599M1	2.192	ug/ml	
5) Aniline	3.209	93	8566	1.806	ug/ml#	95
6) 2-Chlorophenol	3.274	128	5764	1.737	ug/ml	94
8) Phenol	3.181	94	6565	1.640	ug/ml#	97
9) Bis(2-chloroethyl)ether	3.255	93	6539	2.043	ug/ml	86
10) 1,3-Dichlorobenzene	3.364	146	8009	2.085	ug/ml	96
11) 1,4-Dichlorobenzene	3.404	146	8063	2.004	ug/ml#	92
12) 1,2-Dichlorobenzene	3.501	146	7855	2.039	ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL2.D
 Acq On : 26 May 2023 7:40 pm
 Operator : SV124:jg
 Sample : IL9,32,,ABNL2 Lot# 9949
 Misc : WG1785590,,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 17:13:09 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	3.482	79	2880	2.181	ug/ml	90
14) Bis(2-chloroisopropyl)...	3.566	45	10473	1.916	ug/ml#	77
15) 2-Methylphenol	3.541	108	5648	1.817	ug/ml	95
16) Hexachloroethane	3.703	117	2770	1.777	ug/ml#	77
17) n-Nitrosodi-n-propylamine	3.681	70	4665	1.888	ug/ml#	85
18) 3-Methylphenol/4-Methy...	3.631	108	5495	1.739	ug/ml#	94
20) Nitrobenzene	3.740	77	6563	1.799	ug/ml#	91
21) Isophorone	3.927	82	11659	1.806	ug/ml	95
22) 2-Nitrophenol	3.939	139	2833	1.748	ug/ml#	72
23) 2,4-Dimethylphenol	3.964	107	5537	1.614	ug/ml#	80
24) Bis(2-chloroethoxy)met...	4.035	93	7287	1.767	ug/ml#	95
25) 2,4-Dichlorophenol	4.085	162	4719	1.621	ug/ml	95
26) 1,2,4-Trichlorobenzene	4.132	180	6596	1.923	ug/ml	97
36) Naphthalene	4.175	128	20472	1.884	ug/ml	99
37) Benzoic Acid	0.000		0	N.D.		
38) 4-Chloroaniline	4.222	65	2189	1.625	ug/ml#	85
39) Hexachlorobutadiene	4.272	225	4135	1.908	ug/ml	97
40) p-Chloro-m-cresol	4.514	107	4874	1.660	ug/ml	92
41) 2-Methylnaphthalene	4.617	142	13547	1.925	ug/ml	97
42) 1-Methylnaphthalene	4.676	115	4916	1.927	ug/ml	95
43) Hexachlorocyclopentadiene	4.719	237	5075	1.819	ug/ml#	89
44) 2,4,6-Trichlorophenol	4.791	196	3620	1.652	ug/ml	90
45) 2,4,5-Trichlorophenol	4.812	196	3980M4	1.650	ug/ml	
47) 2-Chloronaphthalene	4.918	162	12964	1.827	ug/ml	95
48) 2-Nitroaniline	4.987	138	3266	1.587	ug/ml	92
49) 1,4-Dinitrobenzene	5.067	168	1390	1.445	ug/ml	90
50) 1,3-Dinitrobenzene	5.120	168	1813	1.623	ug/ml#	74
51) Dimethyl phthalate	5.105	163	15109	1.812	ug/ml#	97
52) Acenaphthylene	5.176	152	20917	1.883	ug/ml	98
53) 2,6-Dinitrotoluene	5.136	165	2549	1.539	ug/ml#	74
54) 1,2-Dinitrobenzene	5.176	168	1186	1.580	ug/ml	83
64) 3-Nitroaniline	5.244	138	2490	1.333	ug/ml#	94
65) Acenaphthene	5.291	154	12635	1.832	ug/ml	87
66) 2,4-Dinitrophenol	5.313	184	832	4.072	ug/ml#	53
67) Dibenzofuran	5.403	168	20294	1.891	ug/ml	92
68) 2,4-Dinitrotoluene	5.397	165	3581	2.216	ug/ml	92
69) 4-Nitrophenol	5.341	65	1703	2.132	ug/ml	93
70) 2,3,5,6-Tetrachlorophenol	5.453	232	3399	1.611	ug/ml#	90

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL2.D
 Acq On : 26 May 2023 7:40 pm
 Operator : SV124:jg
 Sample : IL9,32,,ABNL2 Lot# 9949
 Misc : WG1785590,,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 17:13:09 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	5.481	232	3959	1.817	ug/ml#	84
72) Diethyl phthalate	5.558	149	15487	1.781	ug/ml	98
73) Fluorene	5.621	166	16096	1.814	ug/ml	97
74) 4-Chlorophenyl phenyl ...	5.617	204	8223	1.916	ug/ml#	87
75) 4-Nitroaniline	5.633	138	2271	2.491	ug/ml#	77
76) 4,6-Dinitro-o-cresol	5.658	198	1649	1.218	ug/ml#	83
77) NDPA/DPA	5.692	169	13115	1.875	ug/ml	92
78) Azobenzene	5.717	77	14441	1.685	ug/ml	95
80) 4-Bromophenyl phenyl e...	5.928	248	4982	1.951	ug/ml#	88
81) Hexachlorobenzene	5.978	284	5997	1.918	ug/ml	97
82) Pentachlorophenol	6.102	266	2305	3.262	ug/ml	96
89) Phenanthrene	6.233	178	26018	1.852	ug/ml	99
90) Anthracene	6.267	178	25343	1.790	ug/ml	98
91) Carbazole	6.373	167	21222	1.710	ug/ml	98
92) Di-n-butylphthalate	6.603	149	25633	1.650	ug/ml	97
93) Fluoranthene	7.022	202	30363	1.876	ug/ml#	96
94) Benzidine	7.116	184	13722	1.961	ug/ml#	95
95) Pyrene	7.181	202	29314	1.735	ug/ml	96
97) Butyl benzyl phthalate	7.644	149	10878	2.010	ug/ml	95
105) Benzo(a)anthracene	8.060	228	32595	1.905	ug/ml	98
106) 3,3'-Dichlorobenzidine	8.042	252	9718	1.610	ug/ml#	93
107) Chrysene	8.085	228	32392	1.928	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	8.085	149	17397	2.542	ug/ml#	99
109) Di-n-octylphthalate	8.576	149	27492	3.159	ug/ml#	99
110) Benzo(b)fluoranthene	8.865	252	30428	1.752	ug/ml	98
111) Benzo(k)fluoranthene	8.884	252	30969	1.837	ug/ml#	93
112) Benzo(a)pyrene	9.099	252	26562	1.803	ug/ml	95
114) Indeno(1,2,3-cd)pyrene	9.851	276	34249	1.663	ug/mL	99
115) Dibenzo(a,h)anthracene	9.854	278	30007	1.637	ug/ml	95
116) Benzo(ghi)perylene	10.022	276	32772	1.811	ug/ml#	86

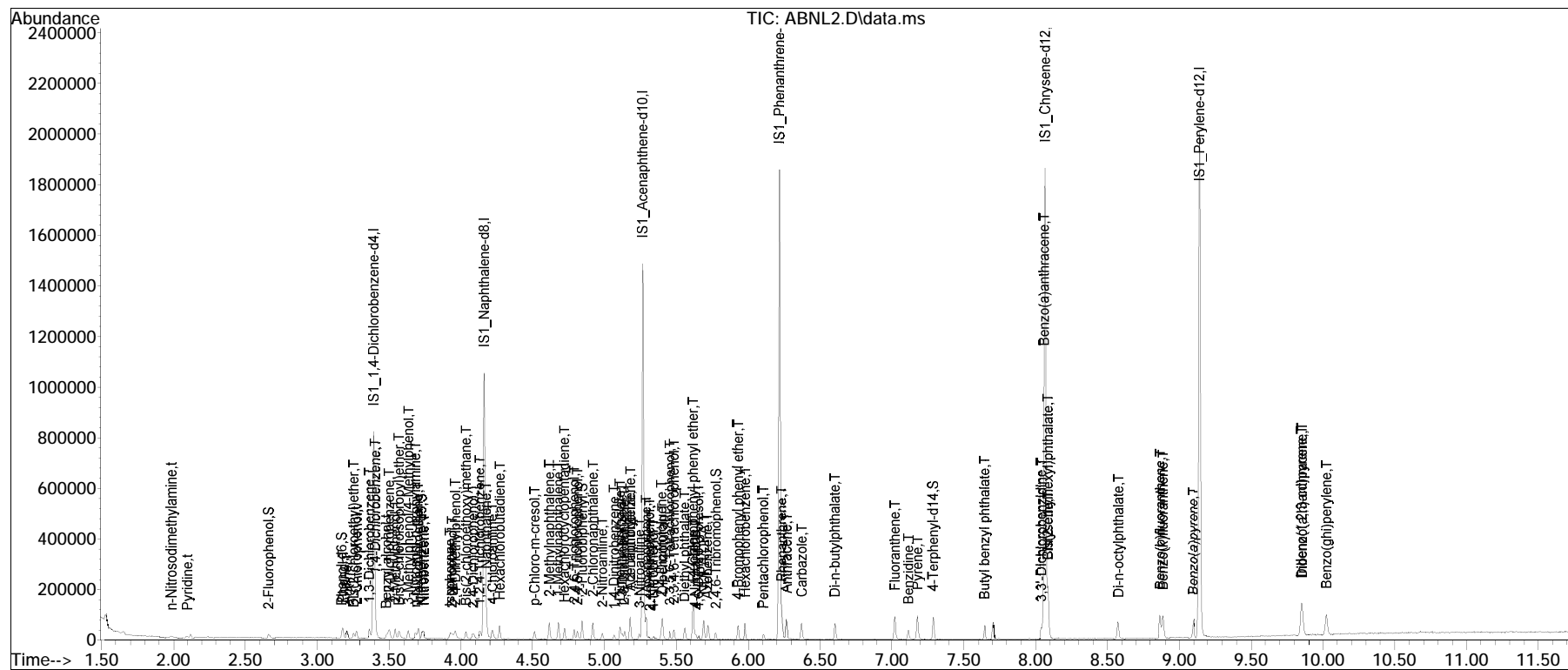
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL2.D
 Acq On : 26 May 2023 7:40 pm
 Operator : SV124:jg
 Sample : IL9,32,,ABNL2 Lot# 9949
 Misc : WG1785590,,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 17:13:09 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

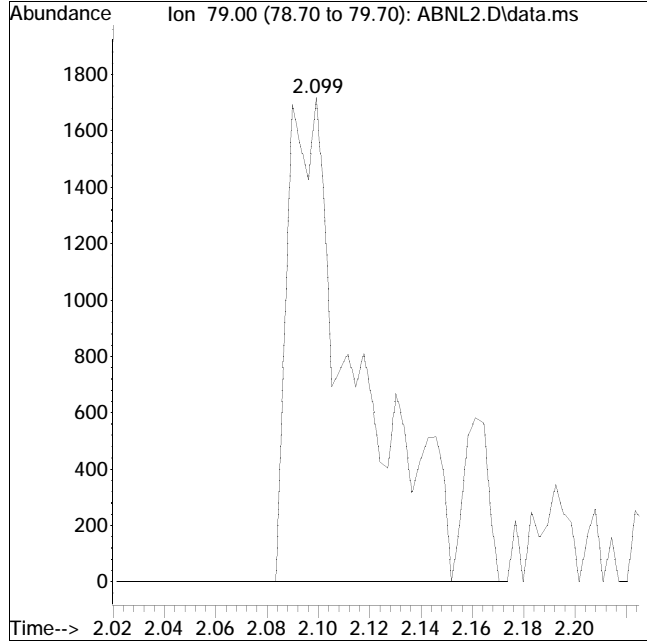
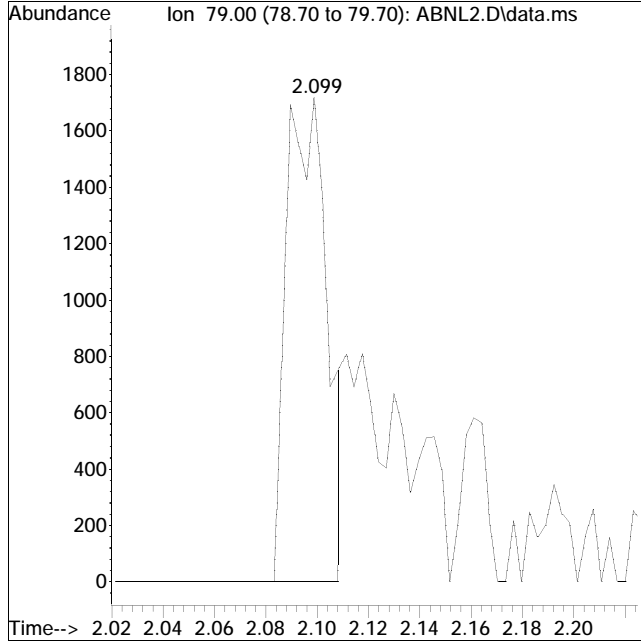
Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ABNL2.D Operator : SV124:jg
Date Inj'd : 5/26/2023 7:40 pm Instrument : SV124
Sample : IL9,32,,ABNL2 Lot# 9949 Quant Date : 5/31/2023 5:13 pm

Compound #3: Pyridine



Original Peak Response = 1874

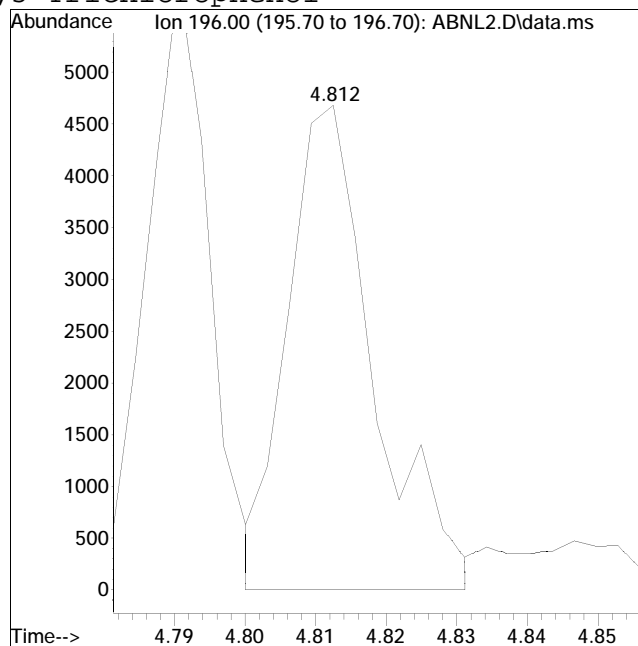
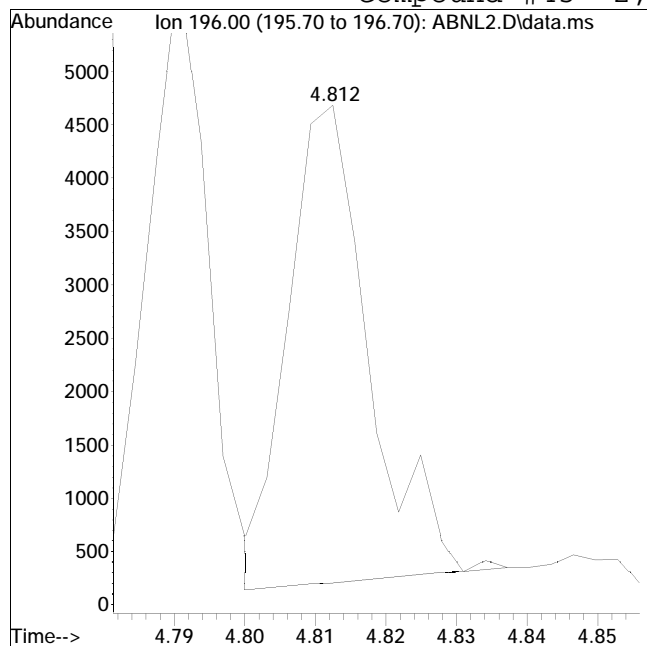
Manual Peak Response = 3599 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ABNL2.D Operator : SV124:jg
Date Inj'd : 5/26/2023 7:40 pm Instrument : SV124
Sample : IL9,32,,ABNL2 Lot# 9949 Quant Date : 5/31/2023 5:13 pm

Compound #45: 2,4,5-Trichlorophenol



Original Peak Response = 3574

Manual Peak Response = 3980 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL1.D
 Acq On : 26 May 2023 7:57 pm
 Operator : SV124:jg
 Sample : IL10,32,,ABNL1 Lot# 9950
 Misc : WG1785590,,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 17:09:21 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.392	152	123627	40.000	ug/ml	0.00
Standard Area 1 = 129371			Recovery =	95.56%		
35) IS1_Naphthalene-d8	4.160	136	516357	40.000	ug/ml	0.00
Standard Area 1 = 509052			Recovery =	101.44%		
63) IS1_Acenaphthene-d10	5.266	164	291229	40.000	ug/ml	0.00
Standard Area 1 = 267488			Recovery =	108.88%		
88) IS1_Phenanthrene-d10	6.217	188	667207	40.000	ug/ml	0.00
Standard Area 1 = 549271			Recovery =	121.47%		
104) IS1_Chrysene-d12	8.067	240	631142	40.000	ug/ml	# 0.00
Standard Area 1 = 506716			Recovery =	124.56%		
113) IS1_Perylene-d12	9.142	264	726014	40.000	ug/ml	0.00
Standard Area 1 = 620061			Recovery =	117.09%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.665	112	2534	0.765	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	1.53%#		
7) Phenol-d6	3.171	99	3466	0.801	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	1.60%#		
19) Nitrobenzene-d5	3.728	82	3571	0.846	ug/ml	0.01
Spiked Amount 25.000	Range 30 - 130		Recovery =	3.38%#		
46) 2-Fluorobiphenyl	4.841	172	9683	0.977	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	3.91%#		
79) 2,4,6-Tribromophenol	5.773	330	1543	0.878	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	1.76%#		
96) 4-Terphenyl-d14	7.290	244	14454	0.897	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	3.59%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.981	74	1832M1	0.849	ug/ml	
3) Pyridine	0.000		0	N.D.		
5) Aniline	3.209	93	4665	0.834	ug/ml#	93
6) 2-Chlorophenol	3.274	128	3363	0.859	ug/ml	88
8) Phenol	3.184	94	3457	0.732	ug/ml#	80
9) Bis(2-chloroethyl)ether	3.259	93	3495	0.926	ug/ml#	75
10) 1,3-Dichlorobenzene	3.367	146	4026	0.888	ug/ml#	89
11) 1,4-Dichlorobenzene	3.405	146	5320	1.121	ug/ml#	88
12) 1,2-Dichlorobenzene	3.507	146	4239	0.933	ug/ml#	88

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL1.D
 Acq On : 26 May 2023 7:57 pm
 Operator : SV124:jg
 Sample : IL10,32,,ABNL1 Lot# 9950
 Misc : WG1785590,,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 17:09:21 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	3.489	79	1185	1.454	ug/ml#	84
14) Bis(2-chloroisopropyl)...	3.566	45	6206	0.962	ug/ml#	74
15) 2-Methylphenol	3.541	108	3622	0.988	ug/ml	84
16) Hexachloroethane	3.706	117	1640	0.892	ug/ml	87
17) n-Nitrosodi-n-propylamine	3.687	70	2375	0.815	ug/ml#	64
18) 3-Methylphenol/4-Methy...	3.631	108	3011	0.808	ug/ml#	92
20) Nitrobenzene	3.740	77	3622	0.842	ug/ml	95
21) Isophorone	3.933	82	6540	0.859	ug/ml#	89
22) 2-Nitrophenol	3.945	139	1358	0.711	ug/ml#	49
23) 2,4-Dimethylphenol	3.967	107	3300	0.815	ug/ml	88
24) Bis(2-chloroethoxy)met...	4.039	93	4277	0.879	ug/ml#	91
25) 2,4-Dichlorophenol	4.088	162	3108	0.905	ug/ml#	82
26) 1,2,4-Trichlorobenzene	4.135	180	4268	1.055	ug/ml#	95
36) Naphthalene	4.175	128	13142	1.007	ug/ml	99
37) Benzoic Acid	0.000		0	N.D.		
38) 4-Chloroaniline	4.222	65	1145	0.707	ug/ml#	75
39) Hexachlorobutadiene	4.272	225	2678	1.029	ug/ml	95
40) p-Chloro-m-cresol	4.514	107	2979	0.845	ug/ml	89
41) 2-Methylnaphthalene	4.617	142	8137	0.962	ug/ml#	92
42) 1-Methylnaphthalene	4.679	115	2926	0.955	ug/ml	98
43) Hexachlorocyclopentadiene	4.719	237	3069	0.916	ug/ml#	89
44) 2,4,6-Trichlorophenol	4.791	196	2085	0.792	ug/ml	92
45) 2,4,5-Trichlorophenol	4.809	196	2219	0.766	ug/ml	92
47) 2-Chloronaphthalene	4.918	162	7915	0.928	ug/ml	96
48) 2-Nitroaniline	4.987	138	2131	0.862	ug/ml#	73
49) 1,4-Dinitrobenzene	5.067	168	903	0.781	ug/ml#	74
50) 1,3-Dinitrobenzene	5.120	168	805	0.600	ug/ml#	73
51) Dimethyl phthalate	5.108	163	9227	0.921	ug/ml#	97
52) Acenaphthylene	5.176	152	11854	0.888	ug/ml	96
53) 2,6-Dinitrotoluene	5.139	165	1520	0.764	ug/ml	93
54) 1,2-Dinitrobenzene	5.176	168	706	0.783	ug/ml#	69
64) 3-Nitroaniline	5.245	138	1308	0.558	ug/ml#	93
65) Acenaphthene	5.288	154	8018	0.926	ug/ml	96
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	5.403	168	12852	0.953	ug/ml	91
68) 2,4-Dinitrotoluene	5.394	165	2027	1.357	ug/ml	86
69) 4-Nitrophenol	5.347	65	653	1.354	ug/ml#	55
70) 2,3,5,6-Tetrachlorophenol	5.456	232	1938	0.731	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL1.D
 Acq On : 26 May 2023 7:57 pm
 Operator : SV124:jg
 Sample : IL10,32,,ABNL1 Lot# 9950
 Misc : WG1785590,,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 17:09:21 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	5.484	232	1949	0.712	ug/ml#	81
72) Diethyl phthalate	5.559	149	9775	0.895	ug/ml	97
73) Fluorene	5.621	166	9866	0.885	ug/ml	98
74) 4-Chlorophenyl phenyl ...	5.618	204	4928	0.914	ug/ml	88
75) 4-Nitroaniline	5.636	138	1640	2.035	ug/ml#	52
76) 4,6-Dinitro-o-cresol	5.661	198	849	0.499	ug/ml#	2
77) NDPA/DPA	5.692	169	7668	0.873	ug/ml	96
78) Azobenzene	5.717	77	8694	0.808	ug/ml	96
80) 4-Bromophenyl phenyl e...	5.928	248	3036	0.947	ug/ml#	82
81) Hexachlorobenzene	5.978	284	4136	1.053	ug/ml	93
82) Pentachlorophenol	6.106	266	1028	2.533	ug/ml#	18
89) Phenanthrene	6.230	178	16259	0.919	ug/ml	96
90) Anthracene	6.267	178	15927	0.893	ug/ml	98
91) Carbazole	6.373	167	12192	0.780	ug/ml	96
92) Di-n-butylphthalate	6.606	149	15843	0.810	ug/ml	99
93) Fluoranthene	7.022	202	18643	0.915	ug/ml	96
94) Benzidine	7.116	184	6209	0.846	ug/ml#	81
95) Pyrene	7.181	202	19330	0.908	ug/ml	99
97) Butyl benzyl phthalate	7.644	149	6751	1.104	ug/ml	93
105) Benzo(a)anthracene	8.057	228	20010	0.939	ug/ml	96
106) 3,3'-Dichlorobenzidine	8.042	252	5545	0.738	ug/ml#	98
107) Chrysene	8.085	228	18854	0.902	ug/ml	95
108) Bis(2-ethylhexyl)phtha...	8.085	149	10088	1.857	ug/ml#	99
109) Di-n-octylphthalate	8.573	149	15786	2.499	ug/ml#	95
110) Benzo(b)fluoranthene	8.866	252	18604	0.860	ug/ml	98
111) Benzo(k)fluoranthene	8.884	252	17503	0.834	ug/ml	96
112) Benzo(a)pyrene	9.099	252	14178	0.773	ug/ml	96
114) Indeno(1,2,3-cd)pyrene	9.848	276	18112	0.766	ug/mL	98
115) Dibenzo(a,h)anthracene	9.854	278	15997	0.760	ug/ml#	92
116) Benzo(ghi)perylene	10.022	276	17154	0.826	ug/ml#	88

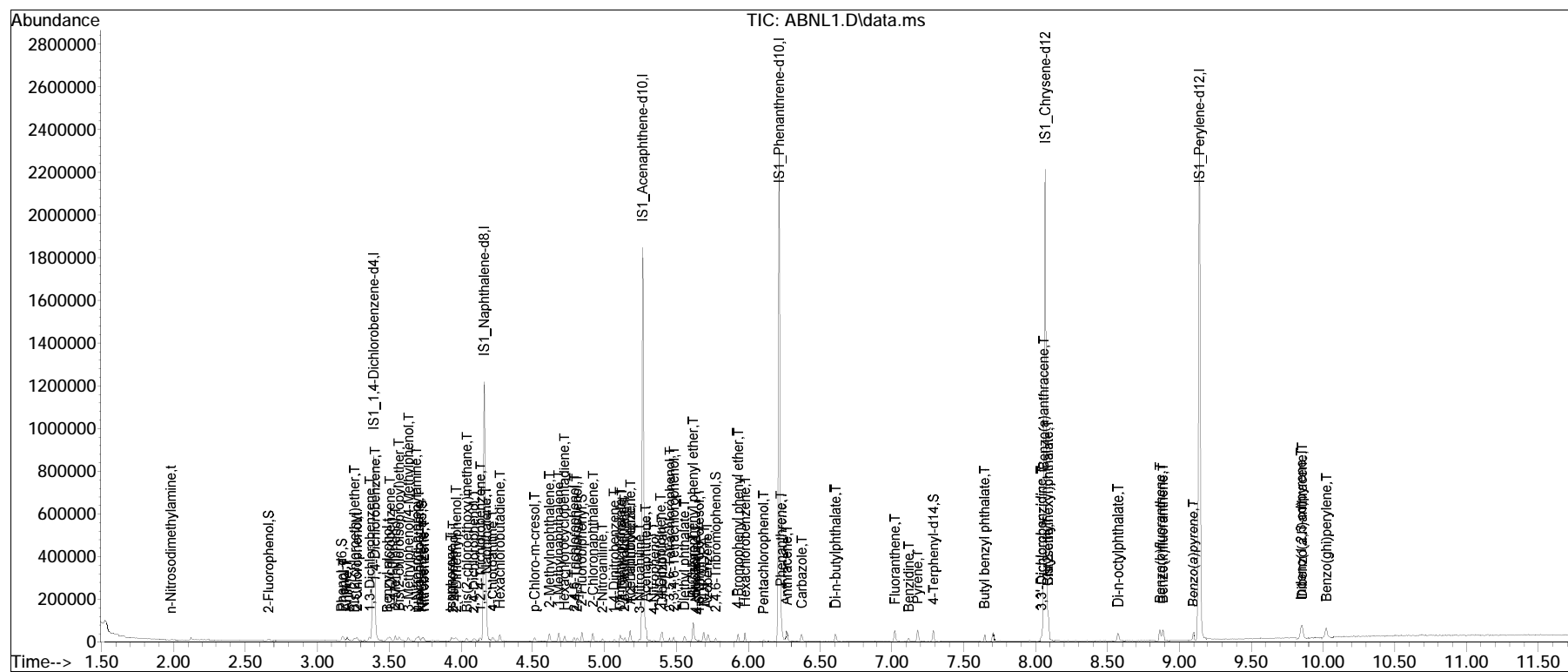
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNL1.D
 Acq On : 26 May 2023 7:57 pm
 Operator : SV124:jg
 Sample : IL10,32,,ABNL1 Lot# 9950
 Misc : WG1785590,,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 17:09:21 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

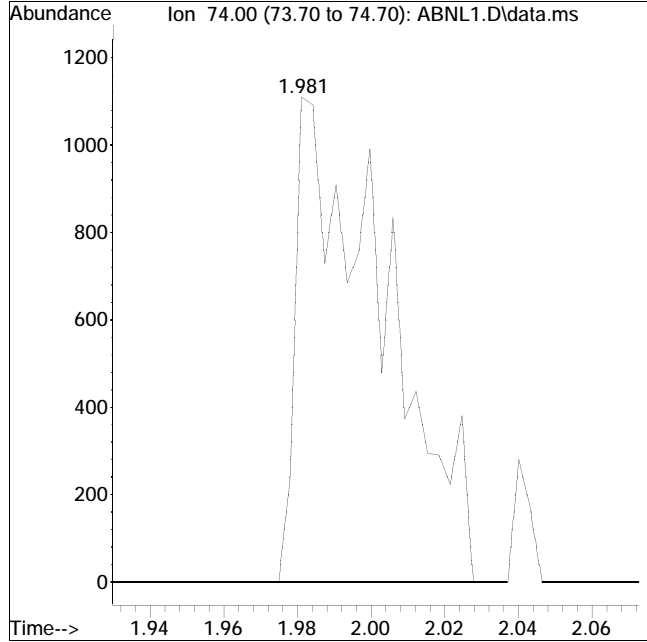
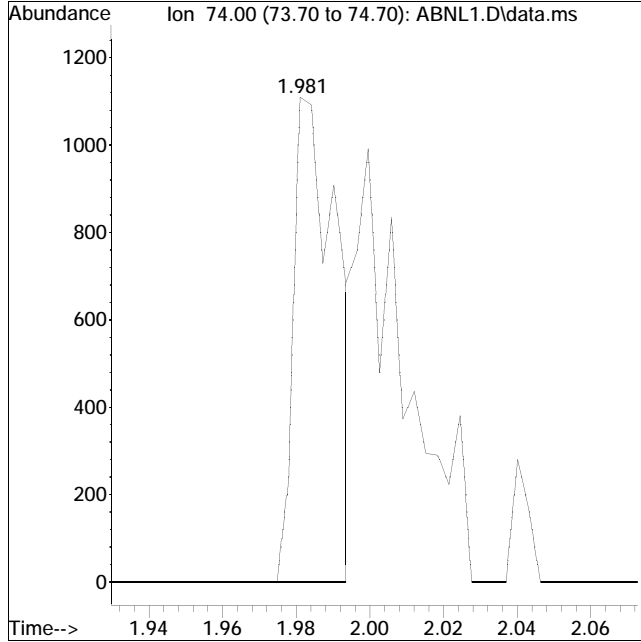
Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ABNL1.D Operator : SV124:jg
Date Inj'd : 5/26/2023 7:57 pm Instrument : SV124
Sample : IL10,32,,ABNL1 Lot# 9950 Quant Date : 5/31/2023 5:08 pm

Compound #2: n-Nitrosodimethylamine



Original Peak Response = 888

Manual Peak Response = 1832 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9L10.D
 Acq On : 26 May 2023 8:14 pm
 Operator : SV124:jg
 Sample : IL11,32,,AP9L200 Lot# 10065
 Misc : WG1785590,,
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 17:17:32 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.389	152	131504	40.000	ug/ml	0.00
Standard Area 3 = 120958			Recovery	=	108.72%	
55) IS2_Naphthalene-d8	4.154	136	533948	40.000	ug/ml	0.00
Standard Area 3 = 501069			Recovery	=	106.56%	
83) IS2_Acenaphthene-d10	5.260	164	297847	40.000	ug/ml	0.00
Standard Area 3 = 282807			Recovery	=	105.32%	
98) IS2_Phenanthrene-d10	6.214	188	660632	40.000	ug/ml	0.00
Standard Area 3 = 640773			Recovery	=	103.10%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.137	105	413120	160.534	ug/ml	87
29) Acetophenone	3.622	105	1325425	200.317	ug/ml	93
30) m-Toluidine	3.669	106	1093032	221.491	ug/ml	99
31) 2-Chloroaniline	3.896	127	1214339	231.815	ug/ml#	95
56) a-Terpineol	4.172	59	975345	250.075	ug/ml	95
57) 3-Chloroaniline	4.185	65	339163	196.300	ug/ml#	68
58) 2,6-Dichlorophenol	4.206	162	836047	240.250	ug/ml	97
59) 1-chloro-2-nitrobenzene	4.371	111	415469	232.874	ug/ml	92
60) Caprolactam	4.418	55	475506	208.600	ug/ml#	90
61) 1,2,4,5-Tetrachloroben...	4.710	216	1075793	223.351	ug/ml	99
62) Biphenyl	4.896	154	2581443	235.215	ug/ml	99
84) Dichloran	6.009	206	313915	211.839	ug/ml	83
85) Pentachloronitrobenzene	6.109	237	365722	248.241	ug/ml#	84
99) Diphenamid	6.802	167	2030281	199.339	ug/ml	87

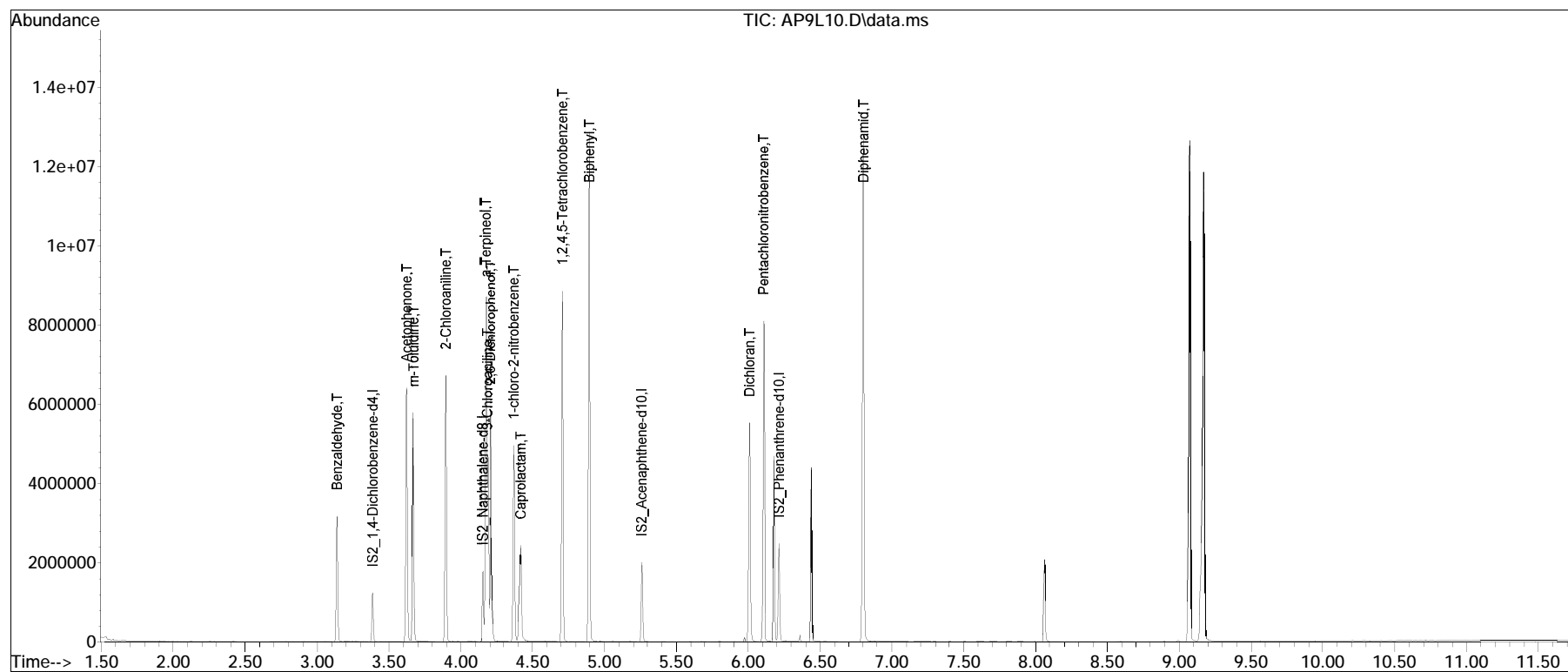
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
Data File : AP9L10.D
Acq On : 26 May 2023 8:14 pm
Operator : SV124:jg
Sample : IL11,32,,AP9L200 Lot# 10065
Misc : WG1785590,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 17:17:32 2023
Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 30 10:21:43 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : AP9L10.D Operator : SV124:jg
Date Inj'd : 5/26/2023 8:14 pm Instrument : SV124
Sample : IL11,32,,AP9L200 Lot# 1006Quant Date : 5/31/2023 5:17 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9L9.D
 Acq On : 26 May 2023 8:31 pm
 Operator : SV124:jg
 Sample : IL12,32,,AP9L150 Lot# 10066
 Misc : WG1785590,,
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 17:19:08 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.389	152	108550	40.000	ug/ml	0.00
Standard Area 3 = 120958			Recovery	=	89.74%	
55) IS2_Naphthalene-d8	4.154	136	452582	40.000	ug/ml	0.00
Standard Area 3 = 501069			Recovery	=	90.32%	
83) IS2_Acenaphthene-d10	5.263	164	246210	40.000	ug/ml	0.00
Standard Area 3 = 282807			Recovery	=	87.06%	
98) IS2_Phenanthrene-d10	6.214	188	551318	40.000	ug/ml	0.00
Standard Area 3 = 640773			Recovery	=	86.04%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.137	105	319475	150.396	ug/ml	89
29) Acetophenone	3.622	105	784141	148.516	ug/ml	93
30) m-Toluidine	3.669	106	701599	172.235	ug/ml	98
31) 2-Chloroaniline	3.896	127	723213	167.254	ug/ml#	95
56) a-Terpineol	4.172	59	559769	169.325	ug/ml	96
57) 3-Chloroaniline	4.185	65	225163	153.748	ug/ml	72
58) 2,6-Dichlorophenol	4.206	162	491167	166.519	ug/ml	96
59) 1-chloro-2-nitrobenzene	4.374	111	249235	164.814	ug/ml	95
60) Caprolactam	4.412	55	285050	148.217	ug/ml#	89
61) 1,2,4,5-Tetrachloroben...	4.710	216	632064	154.818	ug/ml	99
62) Biphenyl	4.896	154	1498970	161.138	ug/ml	99
84) Dichloran	6.009	206	182975	150.018	ug/ml	82
85) Pentachloronitrobenzene	6.109	237	208818	171.466	ug/ml#	84
99) Diphenamid	6.799	167	1136171	146.566	ug/ml	87

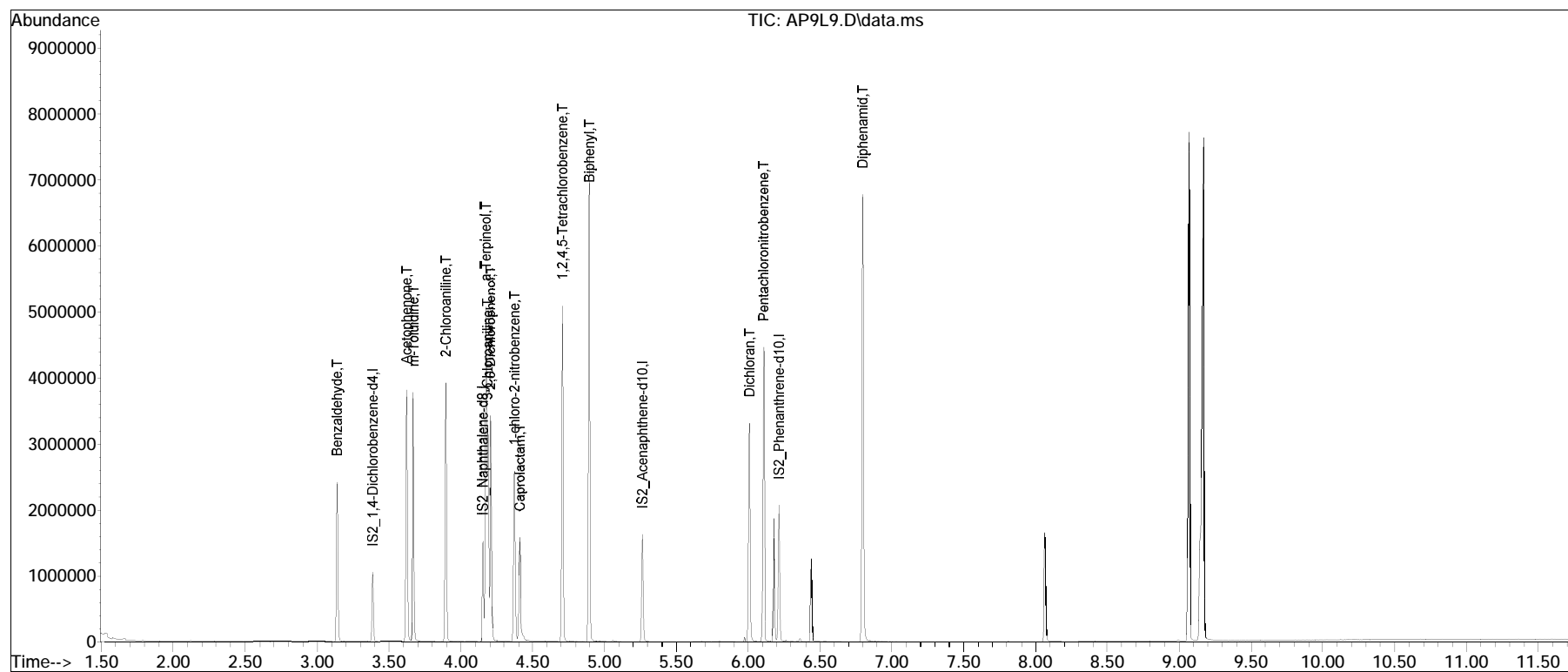
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9L9.D
 Acq On : 26 May 2023 8:31 pm
 Operator : SV124:jg
 Sample : IL12,32,,AP9L150 Lot# 10066
 Misc : WG1785590,,
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 17:19:08 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : AP9L9.D Operator : SV124:jg
Date Inj'd : 5/26/2023 8:31 pm Instrument : SV124
Sample : IL12,32,,AP9L150 Lot# 1006Quant Date : 5/31/2023 5:19 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9L8.D
 Acq On : 26 May 2023 8:47 pm
 Operator : SV124:jg
 Sample : IL13,32,,AP9L100 Lot# 10067
 Misc : WG1785590,,
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 31 17:18:55 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.389	152	131797	40.000	ug/ml	0.00
Standard Area 3 = 120958			Recovery	=	108.96%	
55) IS2_Naphthalene-d8	4.154	136	554265	40.000	ug/ml	0.00
Standard Area 3 = 501069			Recovery	=	110.62%	
83) IS2_Acenaphthene-d10	5.263	164	308494	40.000	ug/ml	0.00
Standard Area 3 = 282807			Recovery	=	109.08%	
98) IS2_Phenanthrene-d10	6.214	188	701035	40.000	ug/ml	0.00
Standard Area 3 = 640773			Recovery	=	109.40%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.137	105	268546	104.122	ug/ml	89
29) Acetophenone	3.622	105	629445	101.447	ug/ml	93
30) m-Toluidine	3.669	106	576384	116.538	ug/ml	99
31) 2-Chloroaniline	3.896	127	581186	110.701	ug/ml#	96
56) a-Terpineol	4.175	59	446156	110.200	ug/ml	96
57) 3-Chloroaniline	4.185	65	183961	102.570	ug/ml	74
58) 2,6-Dichlorophenol	4.206	162	396820	109.852	ug/ml	97
59) 1-chloro-2-nitrobenzene	4.374	111	198269	107.058	ug/ml	94
60) Caprolactam	4.412	55	230195	98.534	ug/ml	91
61) 1,2,4,5-Tetrachloroben...	4.710	216	504935	100.990	ug/ml	99
62) Biphenyl	4.896	154	1200406	105.369	ug/ml	99
84) Dichloran	6.009	206	145087	95.740	ug/ml#	83
85) Pentachloronitrobenzene	6.109	237	170130	111.493	ug/ml#	85
99) Diphenamid	6.802	167	920417	101.731	ug/ml	88

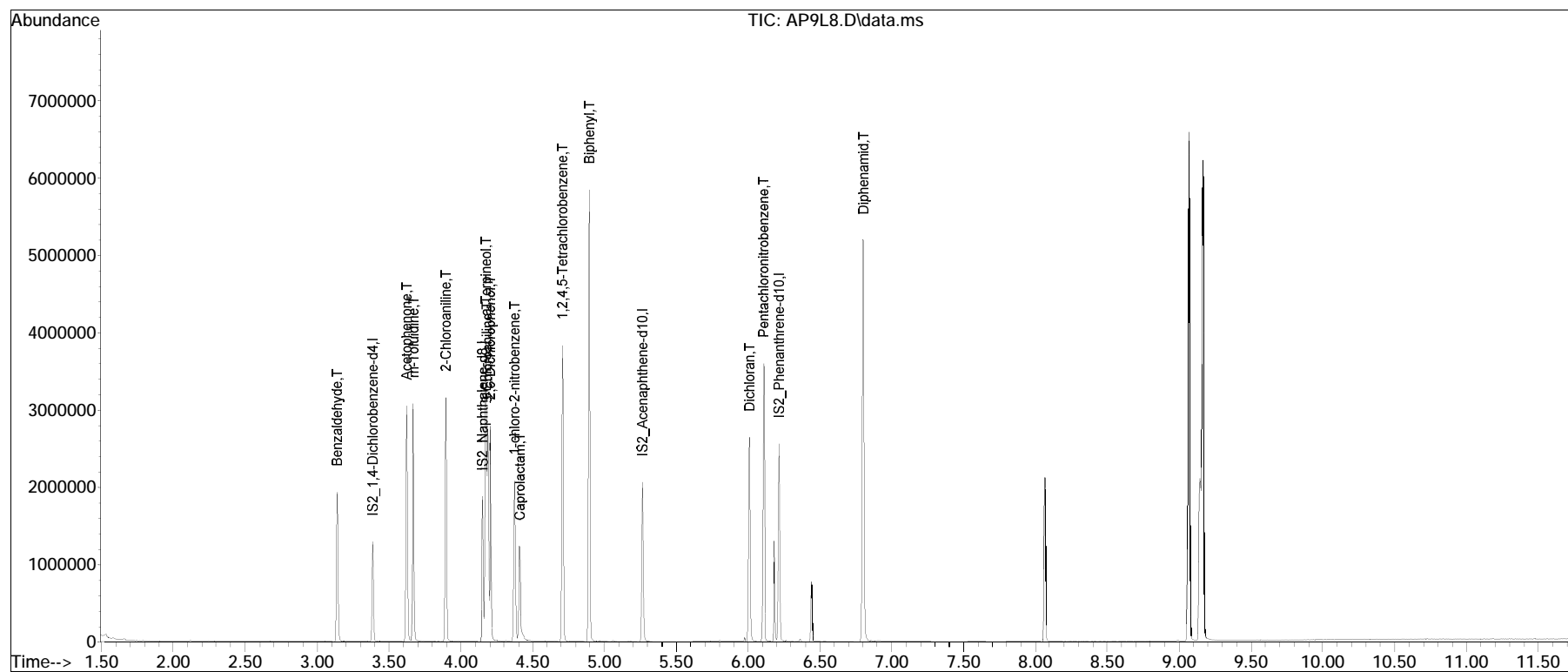
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
Data File : AP9L8.D
Acq On : 26 May 2023 8:47 pm
Operator : SV124:jg
Sample : IL13,32,,AP9L100 Lot# 10067
Misc : WG1785590,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 31 17:18:55 2023
Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 30 10:21:43 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : AP9L8.D Operator : SV124:jg
Date Inj'd : 5/26/2023 8:47 pm Instrument : SV124
Sample : IL13,32,,AP9L100 Lot# 1006Quant Date : 5/31/2023 5:18 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9L7.D
 Acq On : 26 May 2023 9:04 pm
 Operator : SV124:jg
 Sample : IL14,32,,AP9L50 Lot# 10068
 Misc : WG1785590,,
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 31 17:18:43 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.392	152	120958	40.000	ug/ml	0.00
Standard Area 3 = 120958			Recovery	=	100.00%	
55) IS2_Naphthalene-d8	4.157	136	501069	40.000	ug/ml	0.00
Standard Area 3 = 501069			Recovery	=	100.00%	
83) IS2_Acenaphthene-d10	5.266	164	282807	40.000	ug/ml	0.00
Standard Area 3 = 282807			Recovery	=	100.00%	
98) IS2_Phenanthrene-d10	6.214	188	640773	40.000	ug/ml	0.00
Standard Area 3 = 640773			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.140	105	126498	53.442	ug/ml	89
29) Acetophenone	3.625	105	276445	50.544	ug/ml	94
30) m-Toluidine	3.672	106	255776	56.349	ug/ml	99
31) 2-Chloroaniline	3.899	127	255042	52.932	ug/ml#	96
56) a-Terpineol	4.178	59	193505	52.869	ug/ml	96
57) 3-Chloroaniline	4.188	65	87247	53.810	ug/ml#	70
58) 2,6-Dichlorophenol	4.210	162	171745	52.592	ug/ml	97
59) 1-chloro-2-nitrobenzene	4.380	111	87654	52.355	ug/ml	96
60) Caprolactam	4.408	55	96054	46.743	ug/ml#	90
61) 1,2,4,5-Tetrachloroben...	4.713	216	225724	49.939	ug/ml	99
62) Biphenyl	4.896	154	530768	51.536	ug/ml	98
84) Dichloran	6.009	206	60357	44.639	ug/ml	82
85) Pentachloronitrobenzene	6.109	237	73205	52.332	ug/ml#	83
99) Diphenamid	6.802	167	392664	52.677	ug/ml	88

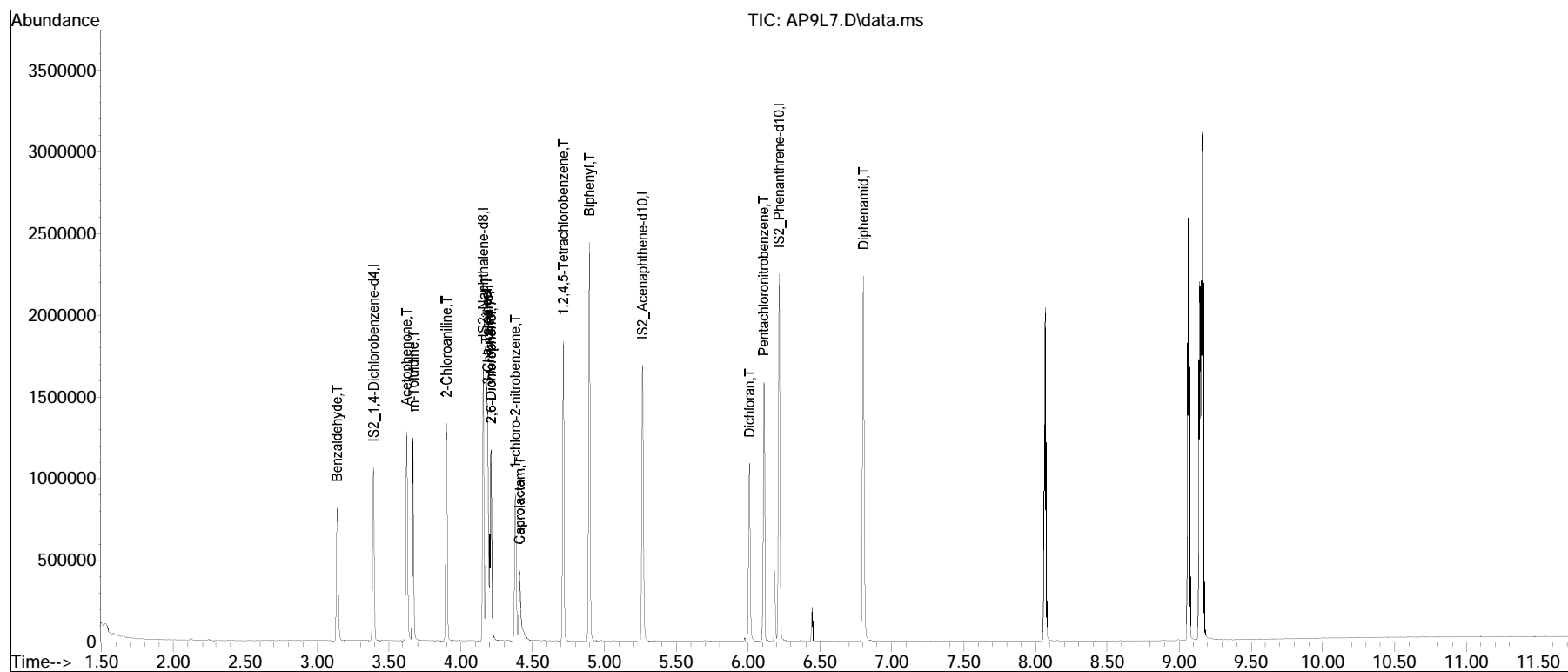
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
Data File : AP9L7.D
Acq On : 26 May 2023 9:04 pm
Operator : SV124:jg
Sample : IL14,32,,AP9L50 Lot# 10068
Misc : WG1785590,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 31 17:18:43 2023
Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 30 10:21:43 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : AP9L7.D Operator : SV124:jg
Date Inj'd : 5/26/2023 9:04 pm Instrument : SV124
Sample : IL14,32,,AP9L50 Lot# 10068Quant Date : 5/31/2023 5:18 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9L6.D
 Acq On : 26 May 2023 9:21 pm
 Operator : SV124:jg
 Sample : IL15,32,,AP9L20 Lot# 10069
 Misc : WG1785590,,
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 31 17:18:31 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.392	152	126098	40.000	ug/ml	0.00
Standard Area 3 = 120958			Recovery	=	104.25%	
55) IS2_Naphthalene-d8	4.160	136	522329	40.000	ug/ml	0.00
Standard Area 3 = 501069			Recovery	=	104.24%	
83) IS2_Acenaphthene-d10	5.269	164	297670	40.000	ug/ml	0.00
Standard Area 3 = 282807			Recovery	=	105.26%	
98) IS2_Phenanthrene-d10	6.220	188	690017	40.000	ug/ml	0.00
Standard Area 3 = 640773			Recovery	=	107.69%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.143	105	54195	21.962	ug/ml	89
29) Acetophenone	3.631	105	110274	20.112	ug/ml	95
30) m-Toluidine	3.675	106	106386	22.482	ug/ml	98
31) 2-Chloroaniline	3.902	127	104778	20.859	ug/ml	95
56) a-Terpineol	4.188	59	77450	20.300	ug/ml	98
57) 3-Chloroaniline	4.197	65	35666	21.102	ug/ml	72
58) 2,6-Dichlorophenol	4.213	162	67918	19.951	ug/ml	97
59) 1-chloro-2-nitrobenzene	4.387	111	34518	19.778	ug/ml	93
60) Caprolactam	4.415	55	35446	18.061	ug/ml	94
61) 1,2,4,5-Tetrachloroben...	4.719	216	95899	20.353	ug/ml	98
62) Biphenyl	4.903	154	222362	20.712	ug/ml	97
84) Dichloran	6.012	206	22935	17.511	ug/ml	85
85) Pentachloronitrobenzene	6.115	237	28775	19.543	ug/ml#	85
99) Diphenamid	6.805	167	159821	21.470	ug/ml	89

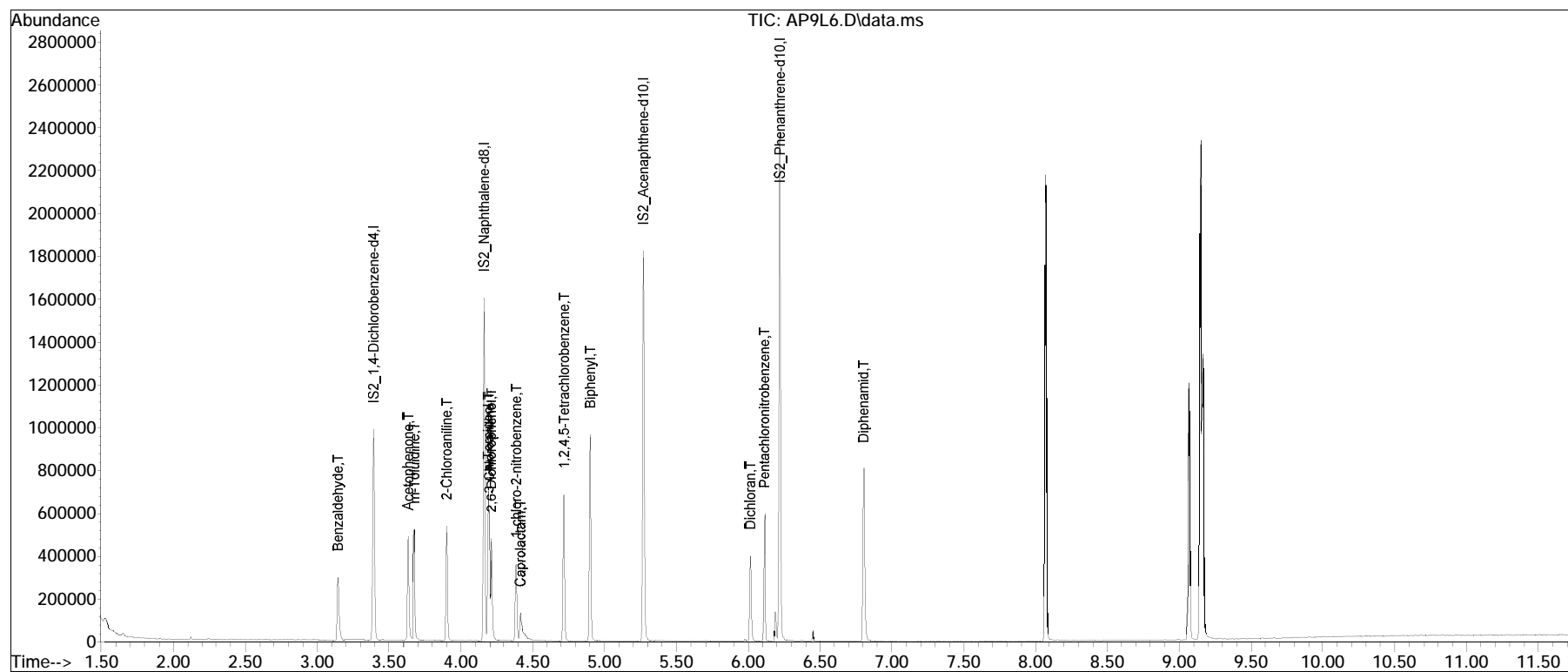
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9L6.D
 Acq On : 26 May 2023 9:21 pm
 Operator : SV124:jg
 Sample : IL15,32,,AP9L20 Lot# 10069
 Misc : WG1785590,,
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 31 17:18:31 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : AP9L6.D Operator : SV124:jg
Date Inj'd : 5/26/2023 9:21 pm Instrument : SV124
Sample : IL15,32,,AP9L20 Lot# 10069 Quant Date : 5/31/2023 5:18 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9L5.D
 Acq On : 26 May 2023 9:37 pm
 Operator : SV124:jg
 Sample : IL16,32,,AP9L10 Lot# 10070
 Misc : WG1785590,,
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 31 17:18:18 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.392	152	137121	40.000	ug/ml	0.00
Standard Area 3 = 120958			Recovery	=	113.36%	
55) IS2_Naphthalene-d8	4.160	136	538519	40.000	ug/ml	0.00
Standard Area 3 = 501069			Recovery	=	107.47%	
83) IS2_Acenaphthene-d10	5.269	164	293666	40.000	ug/ml	0.00
Standard Area 3 = 282807			Recovery	=	103.84%	
98) IS2_Phenanthrene-d10	6.217	188	676673	40.000	ug/ml	0.00
Standard Area 3 = 640773			Recovery	=	105.60%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.146	105	28139	10.487	ug/ml	89
29) Acetophenone	3.634	105	53231	9.321	ug/ml	93
30) m-Toluidine	3.675	106	51410	9.991	ug/ml	98
31) 2-Chloroaniline	3.902	127	51975	9.515	ug/ml	95
56) a-Terpineol	4.194	59	36758	9.345	ug/ml	98
57) 3-Chloroaniline	4.200	65	17839	10.237	ug/ml#	67
58) 2,6-Dichlorophenol	4.219	162	33117	9.436	ug/ml	97
59) 1-chloro-2-nitrobenzene	4.390	111	16758	9.313	ug/ml	93
60) Caprolactam	4.424	55	15497	9.009	ug/ml	90
61) 1,2,4,5-Tetrachloroben...	4.719	216	47419	9.761	ug/ml	97
62) Biphenyl	4.903	154	108648	9.816	ug/ml	98
84) Dichloran	6.015	206	10570	9.345	ug/ml	84
85) Pentachloronitrobenzene	6.115	237	13427	9.244	ug/ml#	82
99) Diphenamid	6.808	167	73441	10.411	ug/ml	86

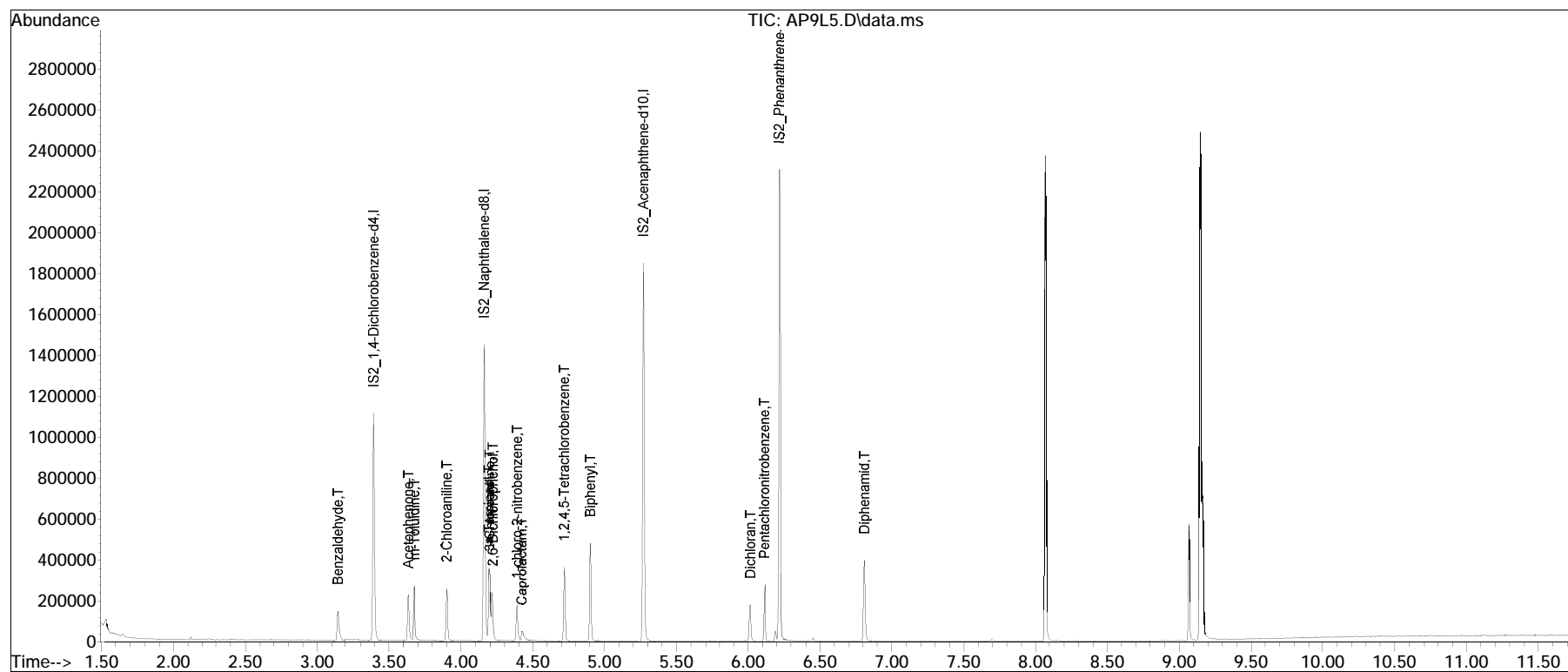
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9L5.D
 Acq On : 26 May 2023 9:37 pm
 Operator : SV124:jg
 Sample : IL16,32,,AP9L10 Lot# 10070
 Misc : WG1785590,,
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 31 17:18:18 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : AP9L5.D Operator : SV124:jg
Date Inj'd : 5/26/2023 9:37 pm Instrument : SV124
Sample : IL16,32,,AP9L10 Lot# 10070Quant Date : 5/31/2023 5:18 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9L4.D
 Acq On : 26 May 2023 9:54 pm
 Operator : SV124:jg
 Sample : IL17,32,,AP9L5 Lot# 10071
 Misc : WG1785590,,
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 31 17:18:02 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.392	152	109960	40.000	ug/ml	0.00
Standard Area 3 = 120958			Recovery	=	90.91%	
55) IS2_Naphthalene-d8	4.163	136	434921	40.000	ug/ml	0.00
Standard Area 3 = 501069			Recovery	=	86.80%	
83) IS2_Acenaphthene-d10	5.269	164	241300	40.000	ug/ml	0.00
Standard Area 3 = 282807			Recovery	=	85.32%	
98) IS2_Phenanthrene-d10	6.221	188	538230	40.000	ug/ml	0.00
Standard Area 3 = 640773			Recovery	=	84.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.153	105	11461	5.326	ug/ml	94
29) Acetophenone	3.638	105	20264	4.747	ug/ml#	88
30) m-Toluidine	3.681	106	18843	4.566	ug/ml	99
31) 2-Chloroaniline	3.905	127	20056	4.579	ug/ml#	93
56) a-Terpineol	4.203	59	13659	4.300	ug/ml	97
57) 3-Chloroaniline	4.203	65	6802	4.833	ug/ml#	66
58) 2,6-Dichlorophenol	4.225	162	13040	4.600	ug/ml	96
59) 1-chloro-2-nitrobenzene	4.393	111	6900	4.748	ug/ml	93
60) Caprolactam	4.443	55	5467M1	5.256	ug/ml	
61) 1,2,4,5-Tetrachloroben...	4.726	216	18177	4.633	ug/ml	94
62) Biphenyl	4.906	154	42778	4.785	ug/ml	99
84) Dichloran	6.019	206	3617	5.166	ug/ml#	83
85) Pentachloronitrobenzene	6.115	237	4719	3.954	ug/ml	86
99) Diphenamid	6.811	167	25402	4.679	ug/ml#	91

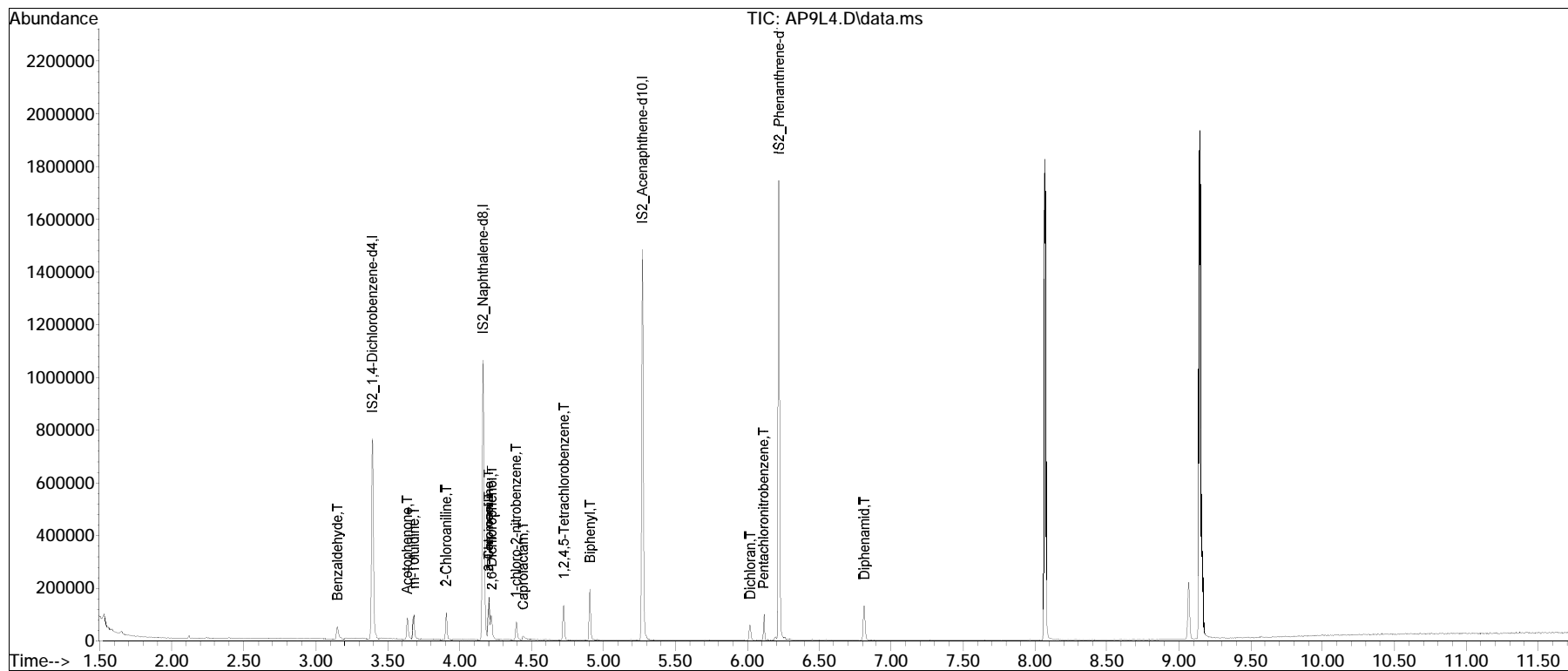
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
Data File : AP9L4.D
Acq On : 26 May 2023 9:54 pm
Operator : SV124:jg
Sample : IL17,32,,AP9L5 Lot# 10071
Misc : WG1785590,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 31 17:18:02 2023
Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 30 10:21:43 2023
Response via : Initial Calibration

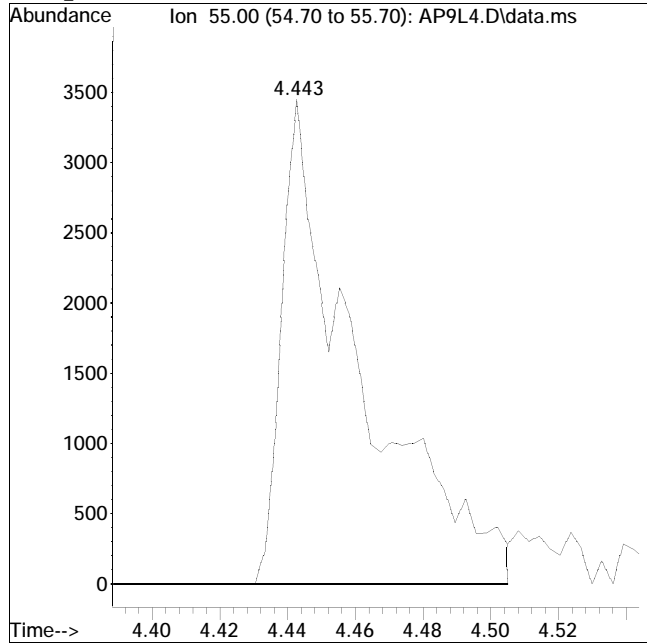
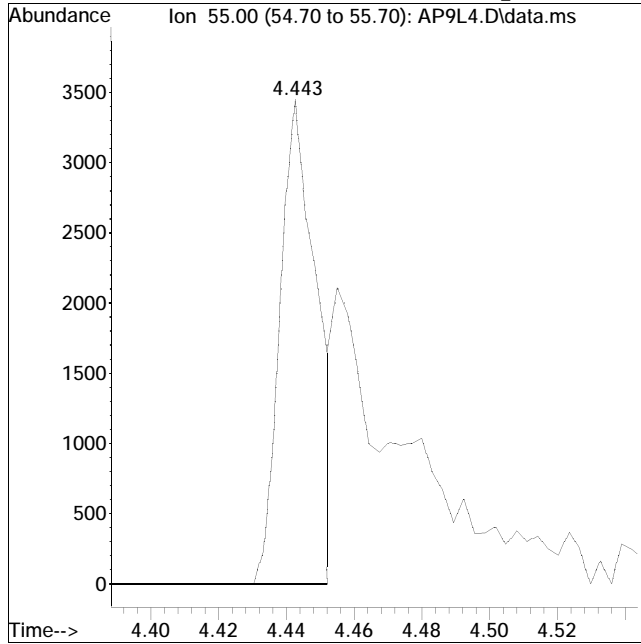
Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : AP9L4.D Operator : SV124:jg
Date Inj'd : 5/26/2023 9:54 pm Instrument : SV124
Sample : IL17,32,,AP9L5 Lot# 10071 Quant Date : 5/31/2023 5:18 pm

Compound #60: Caprolactam



Original Peak Response = 2598

Manual Peak Response = 5467 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9L3.D
 Acq On : 26 May 2023 10:11 pm
 Operator : SV124:jg
 Sample : IL18,32,,AP9L3 Lot# 10072
 Misc : WG1785590,,
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 31 17:17:52 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.395	152	123776	40.000	ug/ml	0.00
Standard Area 3 = 120958			Recovery	=	102.33%	
55) IS2_Naphthalene-d8	4.163	136	486656	40.000	ug/ml	0.00
Standard Area 3 = 501069			Recovery	=	97.12%	
83) IS2_Acenaphthene-d10	5.269	164	271378	40.000	ug/ml	0.00
Standard Area 3 = 282807			Recovery	=	95.96%	
98) IS2_Phenanthrene-d10	6.217	188	609071	40.000	ug/ml	0.00
Standard Area 3 = 640773			Recovery	=	95.05%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.153	105	6148	2.538	ug/ml#	70
29) Acetophenone	3.641	105	12202	2.816	ug/ml	94
30) m-Toluidine	3.681	106	11622	2.502	ug/ml	99
31) 2-Chloroaniline	3.905	127	12512	2.538	ug/ml#	93
56) a-Terpineol	4.206	59	8750	2.461	ug/ml	100
57) 3-Chloroaniline	4.206	65	4135	2.626	ug/ml#	78
58) 2,6-Dichlorophenol	4.228	162	8083	2.548	ug/ml	95
59) 1-chloro-2-nitrobenzene	4.399	111	4644	2.856	ug/ml	89
60) Caprolactam	4.458	55	2598	3.581	ug/ml#	62
61) 1,2,4,5-Tetrachloroben...	4.726	216	12761	2.907	ug/ml	91
62) Biphenyl	4.906	154	27287	2.728	ug/ml	99
84) Dichloran	6.018	206	2124	3.742	ug/ml#	79
85) Pentachloronitrobenzene	6.118	237	3068	2.286	ug/ml#	82
99) Diphenamid	6.811	167	15829	2.659	ug/ml#	87

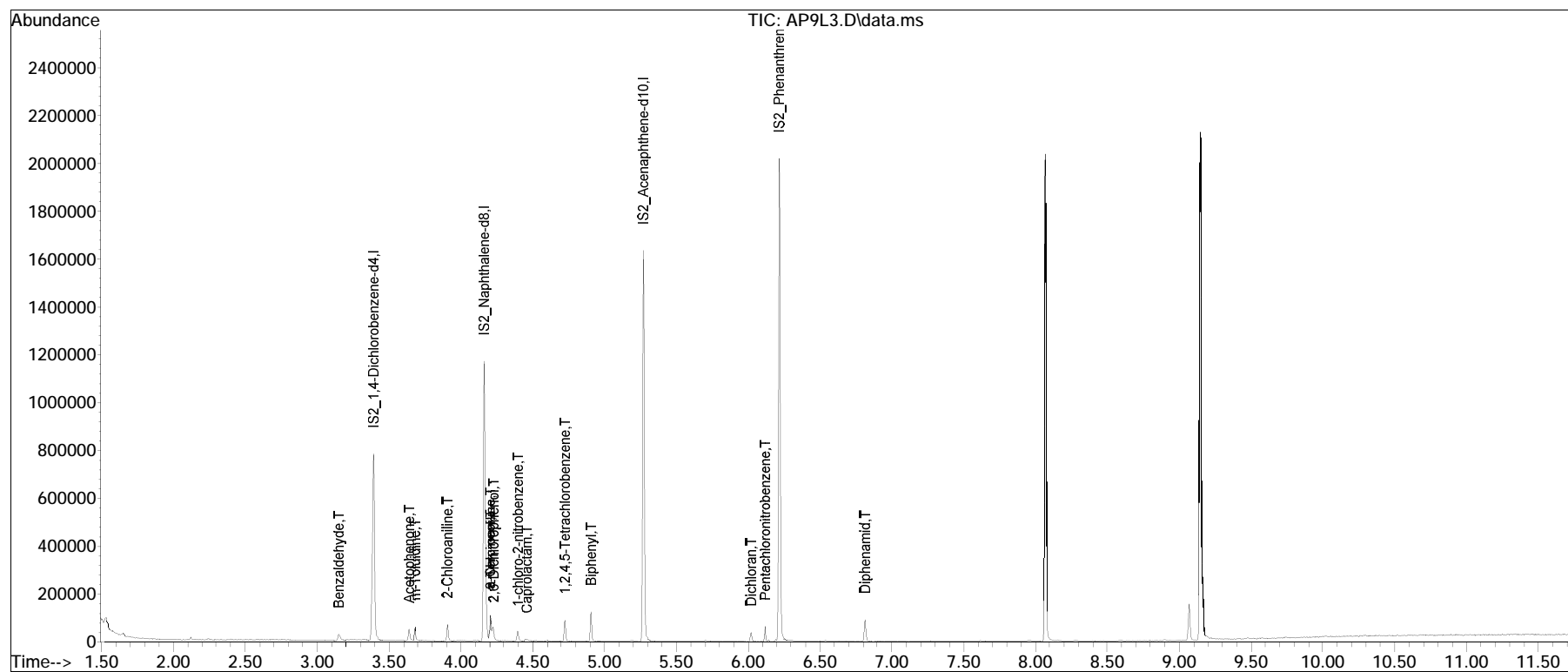
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9L3.D
 Acq On : 26 May 2023 10:11 pm
 Operator : SV124:jg
 Sample : IL18,32,,AP9L3 Lot# 10072
 Misc : WG1785590,,
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 31 17:17:52 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : AP9L3.D Operator : SV124:jg
Date Inj'd : 5/26/2023 10:11 pm Instrument : SV124
Sample : IL18,32,,AP9L3 Lot# 10072 Quant Date : 5/31/2023 5:17 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9L2.D
 Acq On : 26 May 2023 10:27 pm
 Operator : SV124:jg
 Sample : IL19,32,,AP9L2 Lot# 10073
 Misc : WG1785590,,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 31 17:17:41 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.395	152	112161	40.000	ug/ml	0.00
Standard Area 3 = 120958			Recovery	=	92.73%	
55) IS2_Naphthalene-d8	4.163	136	447220	40.000	ug/ml	0.00
Standard Area 3 = 501069			Recovery	=	89.25%	
83) IS2_Acenaphthene-d10	5.269	164	244989	40.000	ug/ml	0.00
Standard Area 3 = 282807			Recovery	=	86.63%	
98) IS2_Phenanthrene-d10	6.220	188	551929	40.000	ug/ml	0.00
Standard Area 3 = 640773			Recovery	=	86.13%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.153	105	3640	1.658	ug/ml	93
29) Acetophenone	3.641	105	7102	2.020	ug/ml#	91
30) m-Toluidine	3.684	106	7406	1.760	ug/ml	94
31) 2-Chloroaniline	3.908	127	8096	1.812	ug/ml	96
56) a-Terpineol	4.209	59	5433	1.663	ug/ml	98
57) 3-Chloroaniline	4.209	65	2810	1.942	ug/ml#	63
58) 2,6-Dichlorophenol	4.228	162	4824	1.655	ug/ml	98
59) 1-chloro-2-nitrobenzene	4.399	111	2383	1.595	ug/ml#	79
60) Caprolactam	4.467	55	1430	3.085	ug/ml	95
61) 1,2,4,5-Tetrachloroben...	4.729	216	7690	1.906	ug/ml	98
62) Biphenyl	4.906	154	16317	1.775	ug/ml	97
84) Dichloran	6.015	206	1377	3.303	ug/ml	93
85) Pentachloronitrobenzene	6.118	237	1647	1.359	ug/ml#	85
99) Diphenamid	6.811	167	9818	1.873	ug/ml#	90

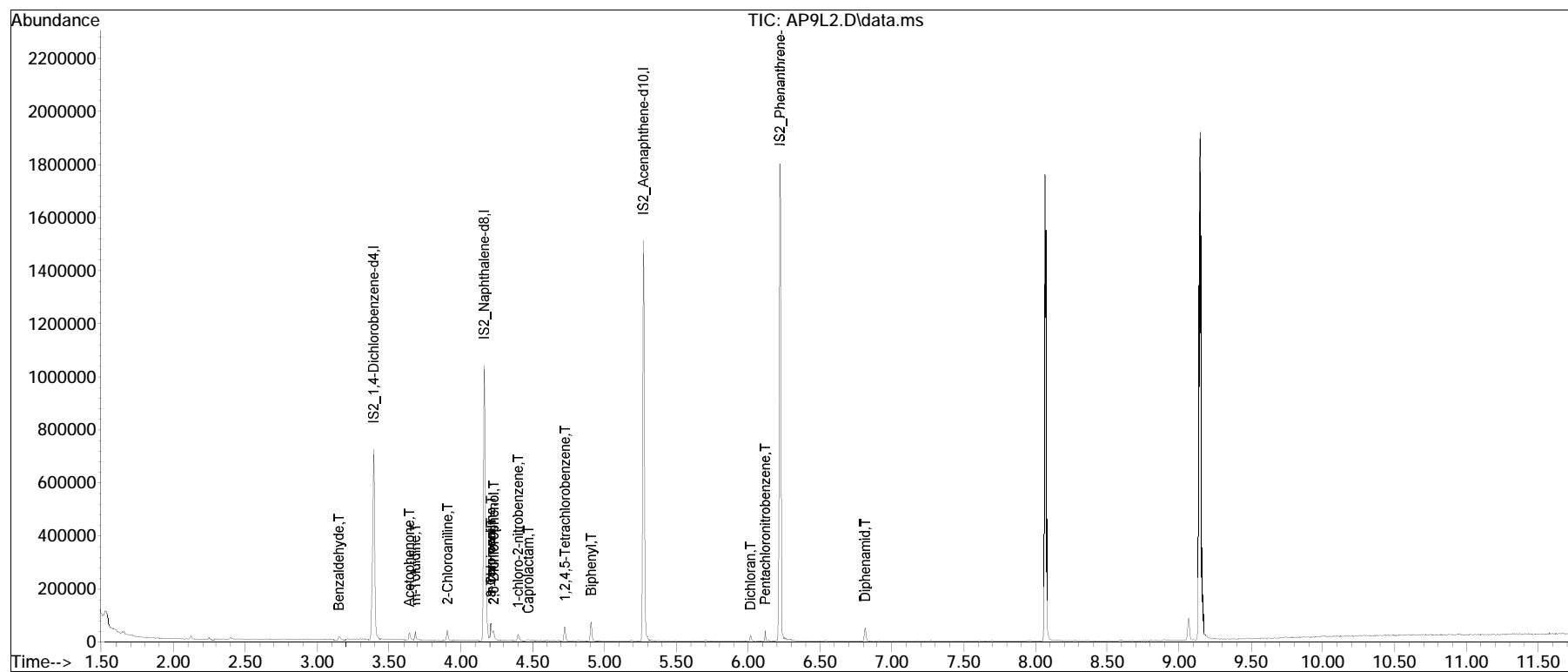
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9L2.D
 Acq On : 26 May 2023 10:27 pm
 Operator : SV124:jg
 Sample : IL19,32,,AP9L2 Lot# 10073
 Misc : WG1785590,,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 31 17:17:41 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : AP9L2.D Operator : SV124:jg
Date Inj'd : 5/26/2023 10:27 pm Instrument : SV124
Sample : IL19,32,,AP9L2 Lot# 10073 Quant Date : 5/31/2023 5:17 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9L1.D
 Acq On : 26 May 2023 10:44 pm
 Operator : SV124:jg
 Sample : IL20,32,,AP9L1 Lot# 10074
 Misc : WG1785590,,
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 31 17:17:20 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.395	152	115531	40.000	ug/ml	0.00
Standard Area 3 = 120958			Recovery	=	95.51%	
55) IS2_Naphthalene-d8	4.163	136	458900	40.000	ug/ml	0.00
Standard Area 3 = 501069			Recovery	=	91.58%	
83) IS2_Acenaphthene-d10	5.269	164	252033	40.000	ug/ml	0.00
Standard Area 3 = 282807			Recovery	=	89.12%	
98) IS2_Phenanthrene-d10	6.220	188	565300	40.000	ug/ml	0.00
Standard Area 3 = 640773			Recovery	=	88.22%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.165	105	1653M3	0.731	ug/ml	
29) Acetophenone	3.644	105	2856	1.147	ug/ml#	90
30) m-Toluidine	3.684	106	3042	0.702	ug/ml#	91
31) 2-Chloroaniline	3.908	127	4133	0.898	ug/ml	95
56) a-Terpineol	4.213	59	2603	0.777	ug/ml	100
57) 3-Chloroaniline	4.213	65	1182	0.796	ug/ml#	73
58) 2,6-Dichlorophenol	4.231	162	2195	0.734	ug/ml#	85
59) 1-chloro-2-nitrobenzene	4.405	111	1081	0.705	ug/ml	88
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	4.729	216	3645	0.881	ug/ml	98
62) Biphenyl	4.906	154	8434	0.894	ug/ml	93
84) Dichloran	6.018	206	581	2.643	ug/ml#	75
85) Pentachloronitrobenzene	6.118	237	987	0.792	ug/ml#	80
99) Diphenamid	6.814	167	5361	1.074	ug/ml#	78

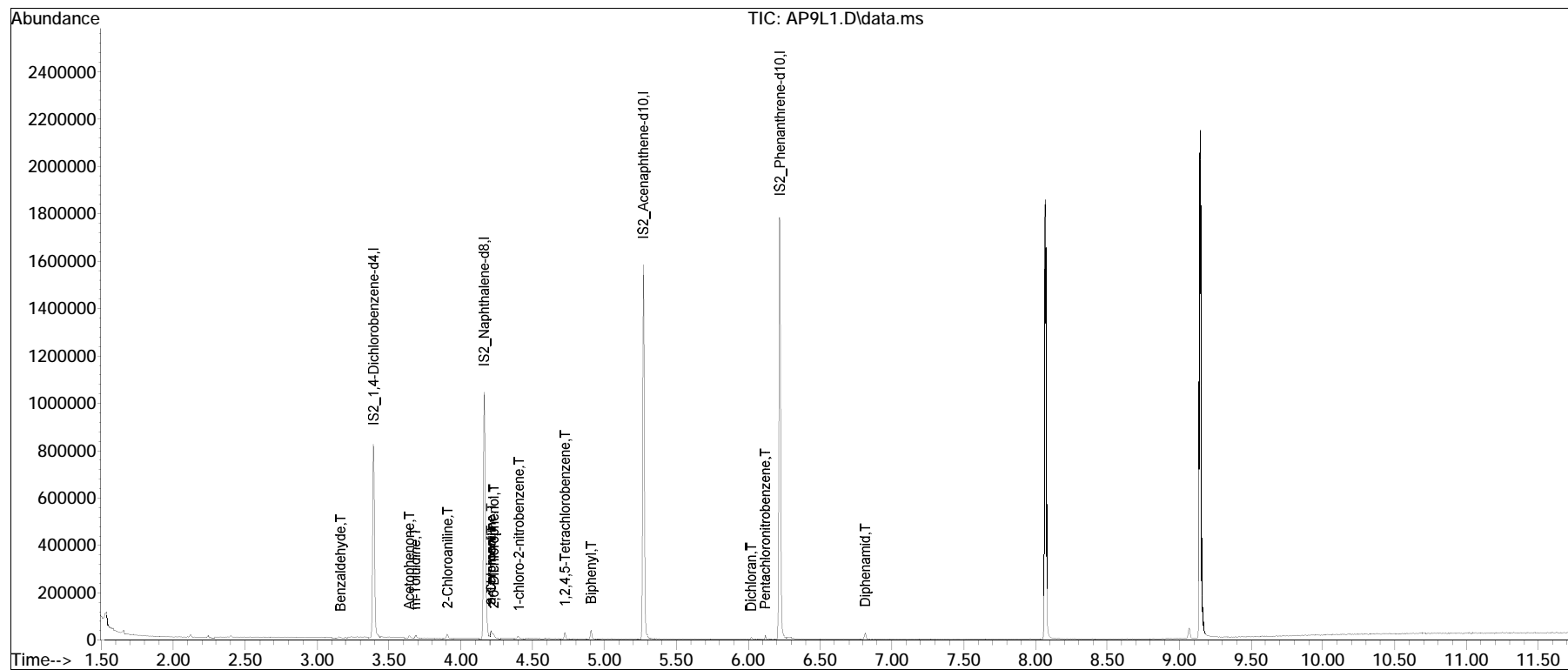
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9L1.D
 Acq On : 26 May 2023 10:44 pm
 Operator : SV124:jg
 Sample : IL20,32,,AP9L1 Lot# 10074
 Misc : WG1785590,,
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 31 17:17:20 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

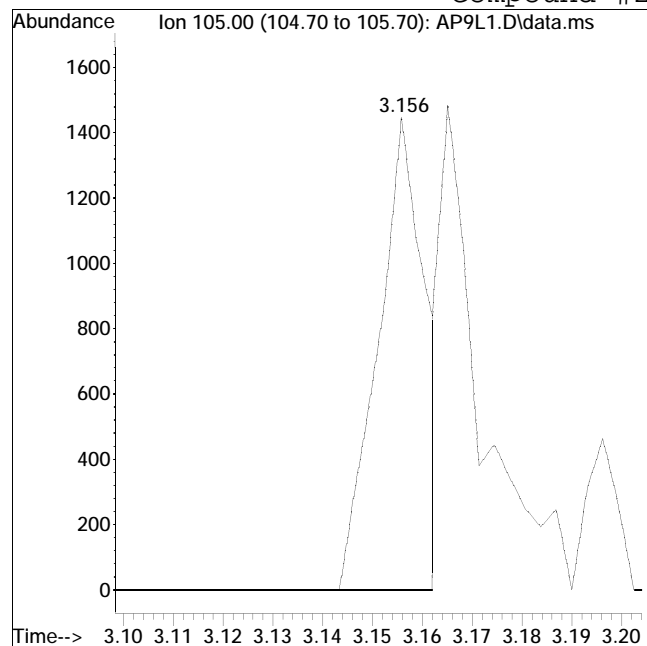
Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



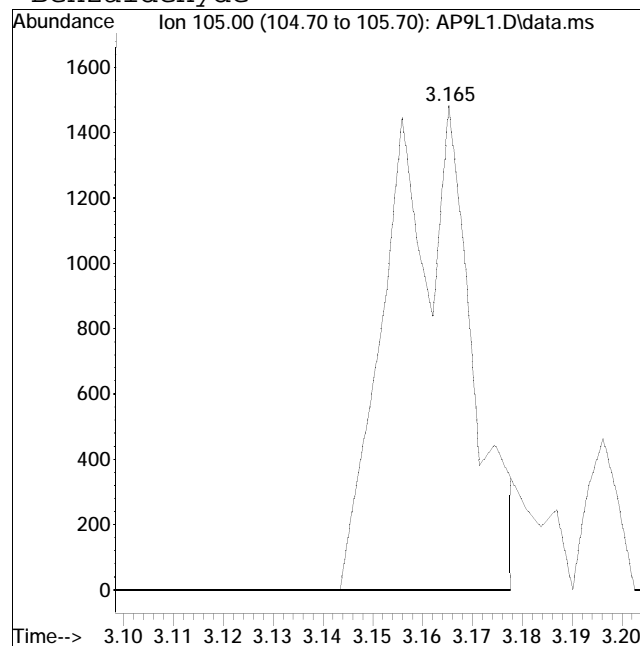
Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : AP9L1.D Operator : SV124:jg
Date Inj'd : 5/26/2023 10:44 pm Instrument : SV124
Sample : IL20,32,,AP9L1 Lot# 10074 Quant Date : 5/31/2023 5:17 pm

Compound #28: Benzaldehyde



Original Peak Response = 961



Manual Peak Response = 1653 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNICV.D
 Acq On : 26 May 2023 11:01 pm
 Operator : SV124:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1785590,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 31 17:38:59 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed May 31 17:39:00 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	IS1_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
2 t	n-Nitrosodimethylamine	0.698	0.669	4.2	92	0.00
3 t	Pyridine	* 50.000	45.647	8.7	97	0.00
4 S	2-Fluorophenol	1.072	1.103	-2.9	97	0.00
5 T	Aniline	1.810	1.864	-3.0	100	0.00
6 t	2-Chlorophenol	1.267	1.281	-1.1	96	0.00
7 S	Phenol-d6	1.400	1.457	-4.1	99	0.00
8 T	Phenol	1.514	1.524	-0.7	94	0.00
9 T	Bis(2-chloroethyl)ether	1.221	1.195	2.1	95	0.00
10 T	1,3-Dichlorobenzene	1.466	1.424	2.9	97	0.00
11 T	1,4-Dichlorobenzene	1.535	1.479	3.6	98	0.00
12 T	1,2-Dichlorobenzene	1.470	1.399	4.8	98	0.00
13 t	Benzyl alcohol	* 50.000	47.716	4.6	94	0.00
14 T	Bis(2-chloroisopropyl)ether	2.086	1.761	15.6	81	0.00
15 T	2-Methylphenol	1.186	1.169	1.4	97	0.00
16 T	Hexachloroethane	0.595	0.583	2.0	95	0.00
17 T	n-Nitrosodi-n-propylamine	0.943	0.924	2.0	92	0.00
18 T	3-Methylphenol/4-Methylphen	1.206	1.235	-2.4	98	0.00
19 S	Nitrobenzene-d5	1.366	1.366	0.0	93	0.00
20 T	Nitrobenzene	1.392	1.346	3.3	92	0.00
21 T	Isophorone	2.464	2.503	-1.6	95	0.00
22 T	2-Nitrophenol	0.618	0.646	-4.5	95	0.00
23 T	2,4-Dimethylphenol	1.309	1.350	-3.1	97	0.00
24 T	Bis(2-chloroethoxy)methane	1.574	1.634	-3.8	98	0.00
25 T	2,4-Dichlorophenol	1.111	1.152	-3.7	99	0.00
26 T	1,2,4-Trichlorobenzene	1.309	1.340	-2.4	103	0.00
35 I	IS1_Naphthalene-d8	1.000	1.000	0.0	107	0.00
36 T	Naphthalene	1.011	0.974	3.7	101	0.00
37 T	Benzoic Acid	* 50.000	42.415	15.2	93	0.00
38 T	4-Chloroaniline	0.125	0.123	1.6	95	0.00
39 T	Hexachlorobutadiene	0.202	0.199	1.5	102	0.00
40 T	p-Chloro-m-cresol	0.273	0.280	-2.6	100	0.00
41 T	2-Methylnaphthalene	0.655	0.665	-1.5	105	0.00
42 T	1-Methylnaphthalene	0.237	0.222	6.3	97	0.00
43 T	Hexachlorocyclopentadiene	0.260	0.261	-0.4	103	0.00
44 T	2,4,6-Trichlorophenol	0.204	0.227	-11.3	105	0.00
45 T	2,4,5-Trichlorophenol	0.225	0.252	-12.0	108	0.00
46 S	2-Fluorobiphenyl	0.767	0.760	0.9	103	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNICV.D
 Acq On : 26 May 2023 11:01 pm
 Operator : SV124:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1785590,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 31 17:38:59 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed May 31 17:39:00 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47 T	2-Chloronaphthalene	0.660	0.666	-0.9	103	0.00
48 T	2-Nitroaniline	0.192	0.193	-0.5	103	0.00
49 T	1,4-Dinitrobenzene	0.090	0.095	-5.6	104	0.00
50 T	1,3-Dinitrobenzene	0.104	0.110	-5.8	106	0.00
51 T	Dimethyl phthalate	0.776	0.809	-4.3	108	0.00
52 T	Acenaphthylene	1.034	1.133	-9.6	113	0.00
53 T	2,6-Dinitrotoluene	0.154	0.163	-5.8	104	0.00
54 T	1,2-Dinitrobenzene	0.070	0.076	-8.6	109	0.00
63 I	IS1_Acenaphthene-d10	1.000	1.000	0.0	112	0.00
64 T	3-Nitroaniline	0.322	0.339	-5.3	109	0.00
65 T	Acenaphthene	1.190	1.128	5.2	103	0.00
66 T	2,4-Dinitrophenol	* 50.000	43.137	13.7	104	0.00
67 T	Dibenzofuran	1.851	1.817	1.8	107	0.00
68 T	2,4-Dinitrotoluene	* 50.000	49.317	1.4	109	0.00
69 T	4-Nitrophenol	* 50.000	46.304	7.4	100	0.00
70 T	2,3,5,6-Tetrachlorophenol	0.364	0.400	-9.9	111	0.00
71 T	2,3,4,6-Tetrachlorophenol	0.376	0.397	-5.6	111	0.00
72 T	Diethyl phthalate	1.500	1.560	-4.0	107	0.00
73 T	Fluorene	1.531	1.524	0.5	108	0.00
74 T	4-Chlorophenyl phenyl ether	0.740	0.746	-0.8	108	0.00
75 T	4-Nitroaniline	* 50.000	47.511	5.0	112	0.00
76 T	4,6-Dinitro-o-cresol	0.233	0.251	-7.7	116	0.00
77 T	NDPA/DPA	1.206	1.266	-5.0	113	0.00
78 T	Azobenzene	1.478	1.514	-2.4	105	0.00
79 S	2,4,6-Tribromophenol	0.241	0.272	-12.9	116	0.00
80 T	4-Bromophenyl phenyl ether	0.440	0.458	-4.1	113	0.00
81 T	Hexachlorobenzene	0.539	0.551	-2.2	116	0.00
82 T	Pentachlorophenol	* 50.000	49.758	0.5	122	0.00
88 I	IS1_Phenanthrene-d10	1.000	1.000	0.0	121	0.00
89 T	Phenanthrene	1.061	1.027	3.2	112	0.00
90 T	Anthracene	1.069	1.066	0.3	113	0.00
91 T	Carbazole	0.937	0.965	-3.0	114	0.00
92 T	Di-n-butylphthalate	1.173	1.243	-6.0	109	0.00
93 T	Fluoranthene	1.222	1.216	0.5	117	0.00
94 T	Benzidine	* 50.000	54.086	-8.2	121	0.00
95 T	Pyrene	1.276	1.308	-2.5	120	0.00
96 S	4-Terphenyl-d14	0.966	1.028	-6.4	124	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNICV.D
 Acq On : 26 May 2023 11:01 pm
 Operator : SV124:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1785590,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 31 17:38:59 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed May 31 17:39:00 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97 T	Butyl benzyl phthalate	* 50.000	51.806	-3.6	115	0.00
104 I	IS1_Chrysene-d12	1.000	1.000	0.0	131	0.00
105 T	Benzo(a)anthracene	1.350	1.365	-1.1	124	0.00
106 T	3,3'-Dichlorobenzidine	0.476	0.506	-6.3	126	0.00
107 T	Chrysene	1.325	1.285	3.0	123	0.00
108 T	Bis(2-ethylhexyl)phthalate	* 50.000	45.558	8.9	114	0.00
109 T	Di-n-octylphthalate	* 50.000	43.513	13.0	112	0.00
110 T	Benzo(b)fluoranthene	1.370	1.394	-1.8	124	0.00
111 T	Benzo(k)fluoranthene	1.330	1.256	5.6	108	0.00
112 T	Benzo(a)pyrene	1.162	1.231	-5.9	121	0.00
113 I	IS1_Perylene-d12	1.000	1.000	0.0	122	0.00
114 T	Indeno(1,2,3-cd)pyrene	1.303	1.330	-2.1	109	0.00
115 T	Dibenzo(a,h)anthracene	1.159	1.153	0.5	106	0.00
116 T	Benzo(ghi)perylene	1.144	1.107	3.2	105	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNICV.D
 Acq On : 26 May 2023 11:01 pm
 Operator : SV124:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1785590,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 31 17:38:59 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed May 31 17:39:00 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.386	152	131194	40.000	ug/ml	0.00
Standard Area 1 = 129371			Recovery = 101.41%			
35) IS1_Naphthalene-d8	4.154	136	546149	40.000	ug/ml	0.00
Standard Area 1 = 509052			Recovery = 107.29%			
63) IS1_Acenaphthene-d10	5.263	164	300764	40.000	ug/ml	0.00
Standard Area 1 = 267488			Recovery = 112.44%			
88) IS1_Phenanthrene-d10	6.214	188	665568	40.000	ug/ml	0.00
Standard Area 1 = 549271			Recovery = 121.17%			
104) IS1_Chrysene-d12	8.070	240	664422	40.000	ug/ml	# 0.00
Standard Area 1 = 506716			Recovery = 131.12%			
113) IS1_Perylene-d12	9.145	264	758819	40.000	ug/ml	0.00
Standard Area 1 = 620061			Recovery = 122.38%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.662	112	180937	51.480	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 102.96%			
7) Phenol-d6	3.168	99	238865	52.030	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 104.06%			
19) Nitrobenzene-d5	3.712	82	224085	50.006	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery = 200.02%#			
46) 2-Fluorobiphenyl	4.834	172	519178	49.548	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery = 198.19%#			
79) 2,4,6-Tribromophenol	5.770	330	102122	56.244	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 112.49%#			
96) 4-Terphenyl-d14	7.287	244	855079	53.180	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery = 212.72%#			
Target Compounds						
2) n-Nitrosodimethylamine	1.972	74	109763	47.911	ug/ml#	96
3) Pyridine	2.003	79	192100	45.647	ug/ml	83
5) Aniline	3.196	93	305731	51.502	ug/ml	92
6) 2-Chlorophenol	3.268	128	210024	50.557	ug/ml	93
8) Phenol	3.178	94	249960	50.339	ug/ml#	90
9) Bis(2-chloroethyl)ether	3.231	93	196044	48.939	ug/ml	99
10) 1,3-Dichlorobenzene	3.355	146	233519	48.562	ug/ml	98
11) 1,4-Dichlorobenzene	3.398	146	242512	48.158	ug/ml	97
12) 1,2-Dichlorobenzene	3.489	146	229506	47.588	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNICV.D
 Acq On : 26 May 2023 11:01 pm
 Operator : SV124:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1785590,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 31 17:38:59 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed May 31 17:39:00 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	3.464	79	160904	47.716	ug/ml	94
14) Bis(2-chloroisopropyl)...	3.548	45	288836	42.208	ug/ml#	75
15) 2-Methylphenol	3.529	108	191697	49.266	ug/ml	99
16) Hexachloroethane	3.691	117	95682	49.039	ug/ml#	83
17) n-Nitrosodi-n-propylamine	3.631	70	151453	48.970	ug/ml	99
18) 3-Methylphenol/4-Methy...	3.622	108	202456	51.190	ug/ml	99
20) Nitrobenzene	3.725	77	220773	48.349	ug/ml	97
21) Isophorone	3.877	82	410540	50.803	ug/ml	99
22) 2-Nitrophenol	3.921	139	105914	52.223	ug/ml	93
23) 2,4-Dimethylphenol	3.945	107	221394	51.549	ug/ml	99
24) Bis(2-chloroethoxy)met...	4.001	93	267978	51.912	ug/ml	97
25) 2,4-Dichlorophenol	4.067	162	188915	51.849	ug/ml	96
26) 1,2,4-Trichlorobenzene	4.119	180	219690	51.171	ug/ml	98
36) Naphthalene	4.166	128	665020	48.154	ug/ml	100
37) Benzoic Acid	4.004	105	139825	42.415	ug/ml	95
38) 4-Chloroaniline	4.200	65	83868	48.994	ug/ml	81
39) Hexachlorobutadiene	4.250	225	135645	49.267	ug/ml	99
40) p-Chloro-m-cresol	4.502	107	191345	51.285	ug/ml	94
41) 2-Methylnaphthalene	4.601	142	453893	50.758	ug/ml	97
42) 1-Methylnaphthalene	4.663	115	151571	46.751	ug/ml	91
43) Hexachlorocyclopentadiene	4.707	237	178003	50.222	ug/ml	95
44) 2,4,6-Trichlorophenol	4.781	196	154938	55.645	ug/ml	94
45) 2,4,5-Trichlorophenol	4.803	196	171701	56.014	ug/ml	95
47) 2-Chloronaphthalene	4.909	162	454386	50.395	ug/ml	96
48) 2-Nitroaniline	4.974	138	131901	50.438	ug/ml	90
49) 1,4-Dinitrobenzene	5.055	168	64951	53.127	ug/ml	82
50) 1,3-Dinitrobenzene	5.108	168	74983	52.821	ug/ml	93
51) Dimethyl phthalate	5.092	163	552536	52.145	ug/ml	99
52) Acenaphthylene	5.173	152	773482	54.788	ug/ml	99
53) 2,6-Dinitrotoluene	5.126	165	111460	52.943	ug/ml	94
54) 1,2-Dinitrobenzene	5.164	168	51605	54.114	ug/ml	94
64) 3-Nitroaniline	5.235	138	127312	52.559	ug/ml	90
65) Acenaphthene	5.285	154	423995	47.400	ug/ml	96
66) 2,4-Dinitrophenol	5.304	184	69534	43.137	ug/ml	88
67) Dibenzofuran	5.394	168	682990	49.060	ug/ml	93
68) 2,4-Dinitrotoluene	5.388	165	157950	49.317	ug/ml	93
69) 4-Nitrophenol	5.341	65	97675	46.304	ug/ml	88
70) 2,3,5,6-Tetrachlorophenol	5.447	232	150239	54.888	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNICV.D
 Acq On : 26 May 2023 11:01 pm
 Operator : SV124:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1785590,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 31 17:38:59 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed May 31 17:39:00 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	5.475	232	149267	52.815	ug/ml	100
72) Diethyl phthalate	5.543	149	586559	52.003	ug/ml	100
73) Fluorene	5.614	166	573074	49.784	ug/ml	100
74) 4-Chlorophenyl phenyl ...	5.611	204	280328	50.370	ug/ml#	87
75) 4-Nitroaniline	5.630	138	126741	47.511	ug/ml	90
76) 4,6-Dinitro-o-cresol	5.649	198	94212	53.669	ug/ml#	81
77) NDPA/DPA	5.689	169	476109	52.488	ug/ml	97
78) Azobenzene	5.714	77	569195	51.204	ug/ml	98
80) 4-Bromophenyl phenyl e...	5.925	248	172174	51.985	ug/ml#	83
81) Hexachlorobenzene	5.975	284	207189	51.080	ug/ml#	90
82) Pentachlorophenol	6.099	266	125997	49.758	ug/ml	97
89) Phenanthrene	6.230	178	854589	48.422	ug/ml	99
90) Anthracene	6.264	178	886640	49.846	ug/ml	99
91) Carbazole	6.370	167	802468	51.475	ug/ml	99
92) Di-n-butylphthalate	6.600	149	1033822	52.970	ug/ml	99
93) Fluoranthene	7.019	202	1011739	49.772	ug/ml#	95
94) Benzidine	7.113	184	641269	54.086	ug/ml#	97
95) Pyrene	7.178	202	1088193	51.261	ug/ml	99
97) Butyl benzyl phthalate	7.644	149	459648	51.806	ug/ml	92
105) Benzo(a)anthracene	8.061	228	1134014	50.571	ug/ml	99
106) 3,3'-Dichlorobenzidine	8.042	252	420550	53.162	ug/ml#	95
107) Chrysene	8.092	228	1067461	48.495	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	8.085	149	807113	45.558	ug/ml	97
109) Di-n-octylphthalate	8.576	149	1221308	43.513	ug/ml	95
110) Benzo(b)fluoranthene	8.872	252	1157674	50.860	ug/ml#	93
111) Benzo(k)fluoranthene	8.890	252	1042942	47.209	ug/ml	95
112) Benzo(a)pyrene	9.105	252	1022465	52.955	ug/ml#	95
114) Indeno(1,2,3-cd)pyrene	9.854	276	1261771	51.045	ug/mL	98
115) Dibenzo(a,h)anthracene	9.860	278	1093321	49.715	ug/ml#	93
116) Benzo(ghi)perylene	10.028	276	1050431	48.390	ug/ml#	88

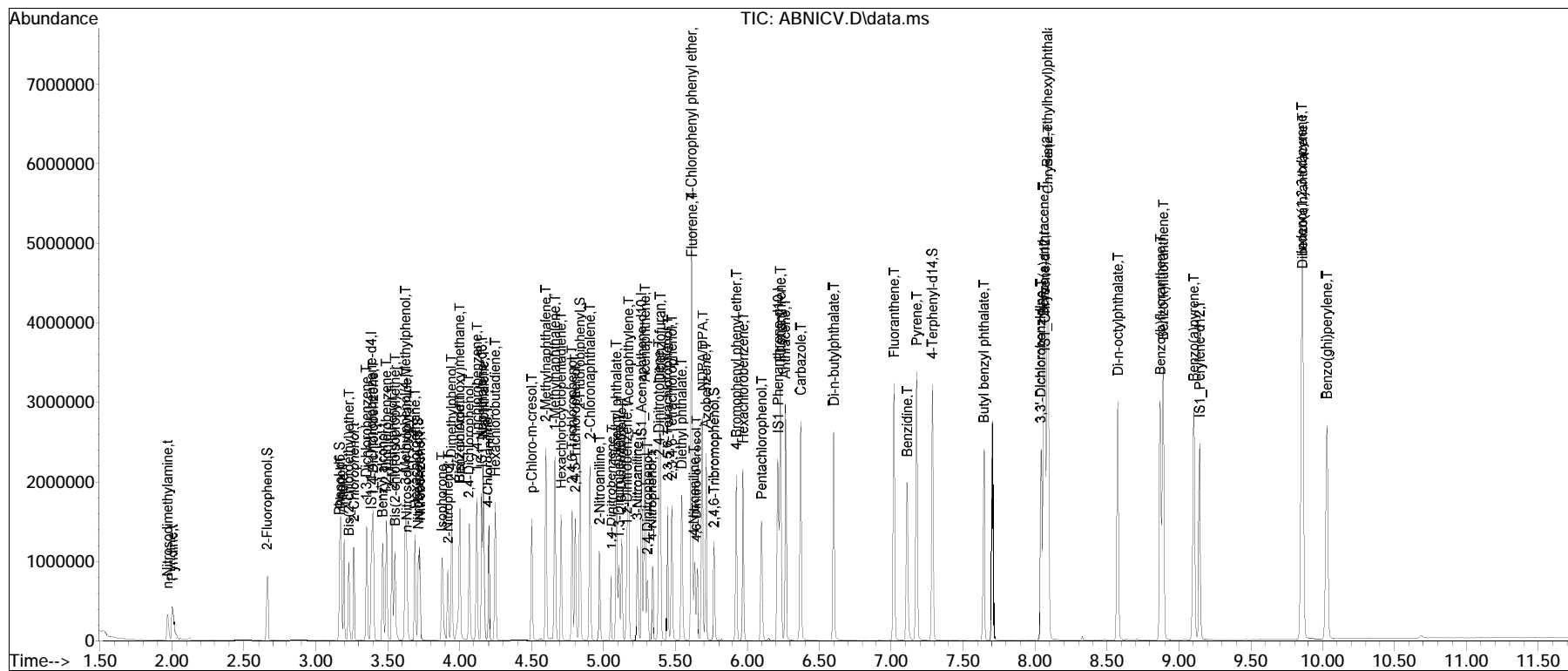
(#) = qualifier out of range (m) = manual integration (+) = signals summed

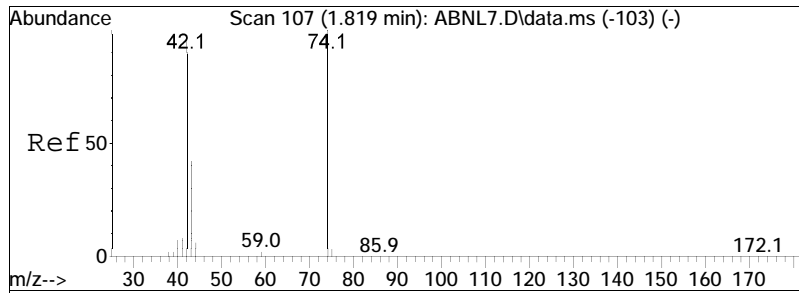
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ABNICV.D
 Acq On : 26 May 2023 11:01 pm
 Operator : SV124:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1785590,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 31 17:38:59 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed May 31 17:39:00 2023
 Response via : Initial Calibration

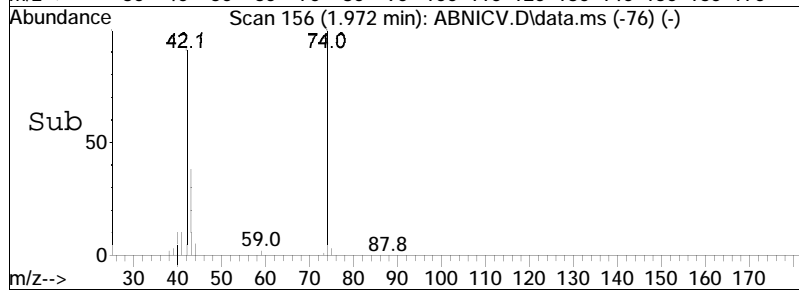
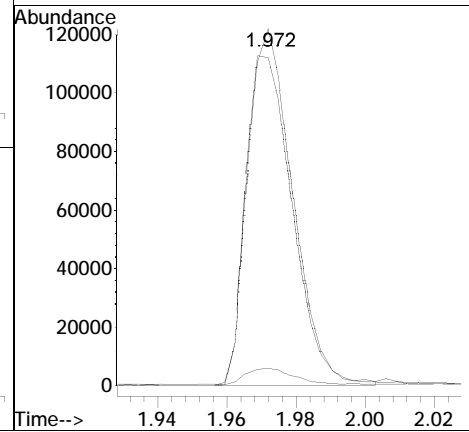
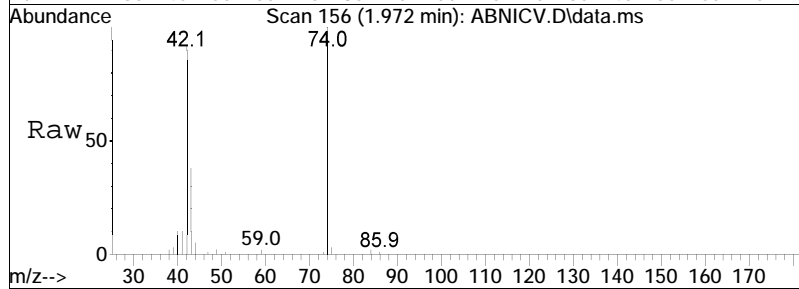
Sub List : ABNical_REV1 - ABN ical sublist9L7.D•

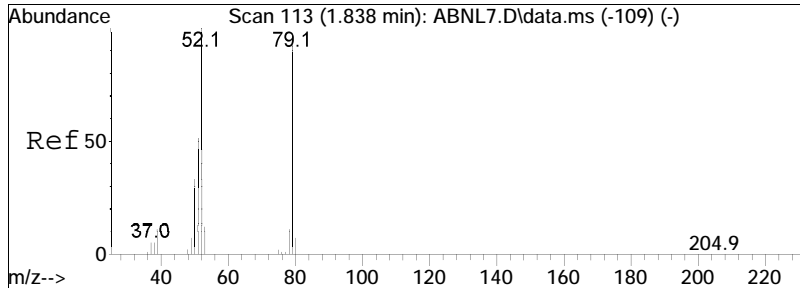




#2
 n-Nitrosodimethylamine
 Concen: 47.91 ug/ml
 RT: 1.972 min Scan# 156
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

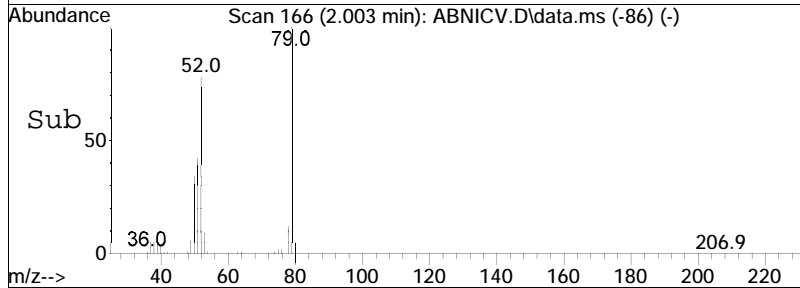
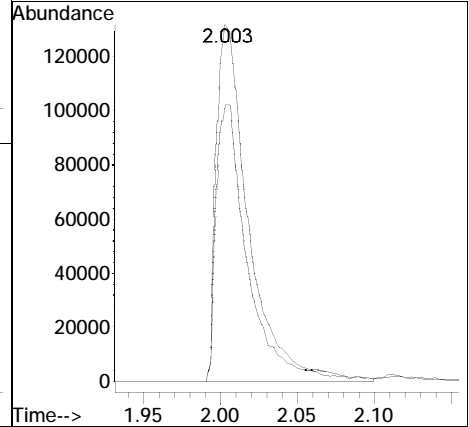
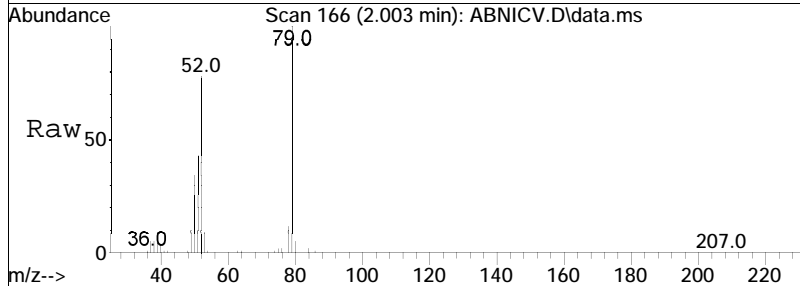
Tgt Ion	Ratio	Lower	Upper
74	100		
42	96.4	74.5	111.7
44	4.8	5.5	8.3#

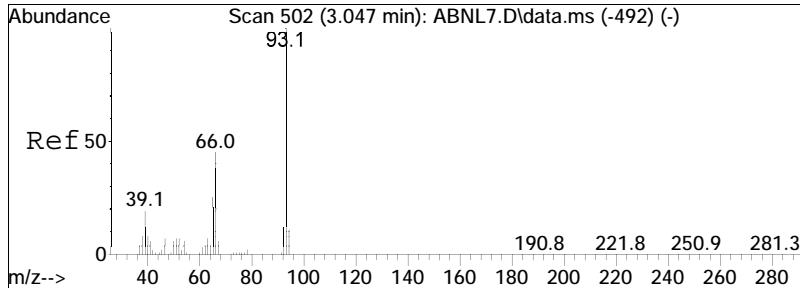




#3
 Pyridine
 Concen: 45.65 ug/ml
 RT: 2.003 min Scan# 166
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

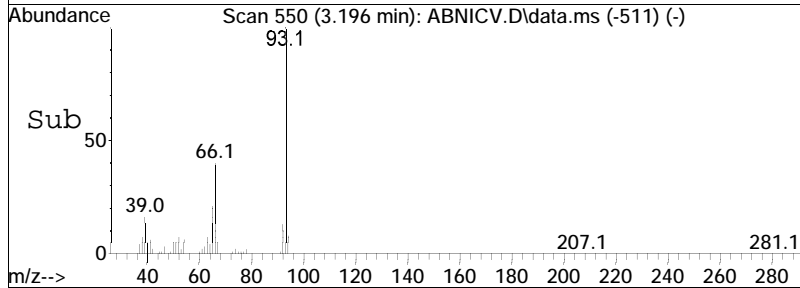
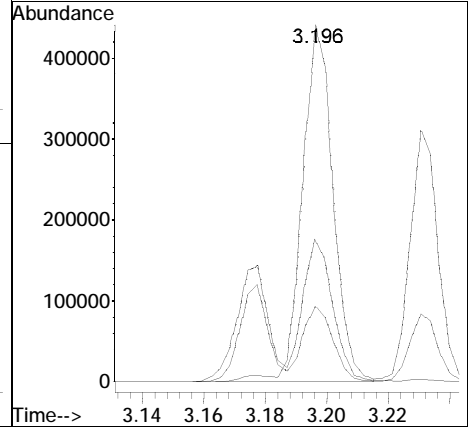
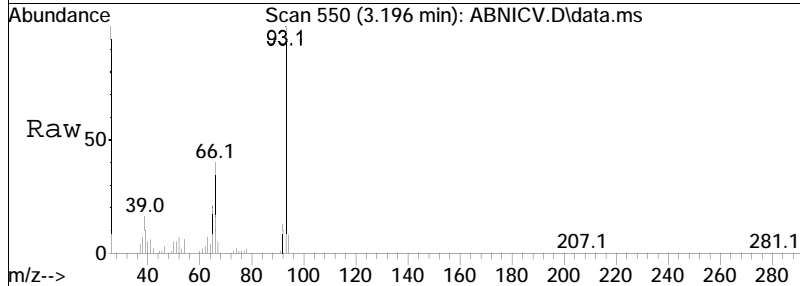
Tgt Ion:	79	Resp:	192100
Ion Ratio	Lower	Upper	
79	100		
52	75.0	72.9	109.3

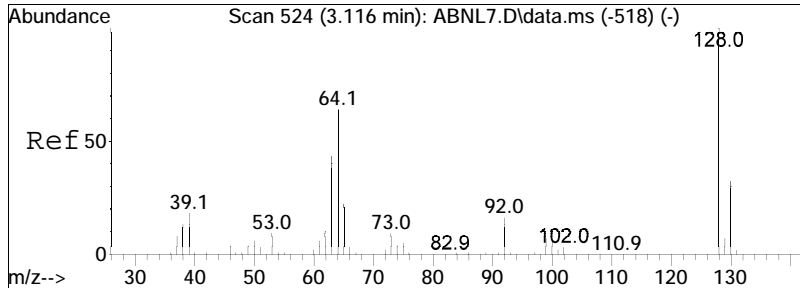




#5
 Aniline
 Concen: 51.50 ug/ml
 RT: 3.196 min Scan# 550
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

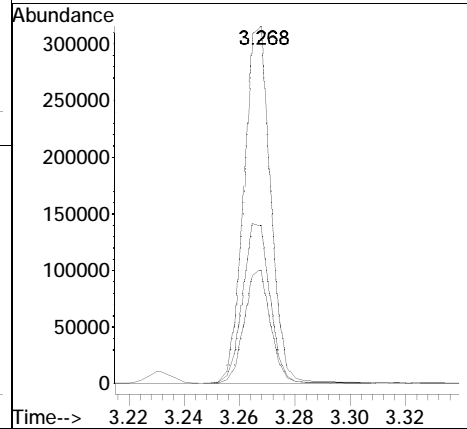
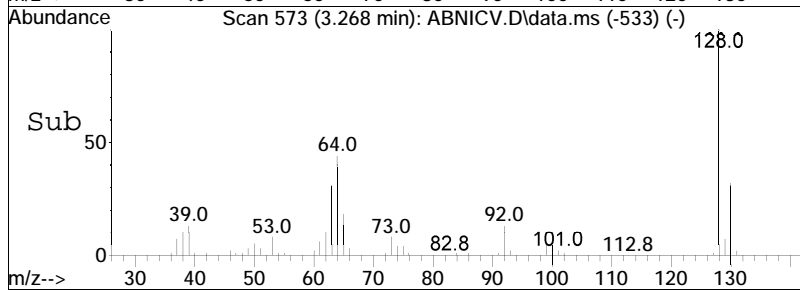
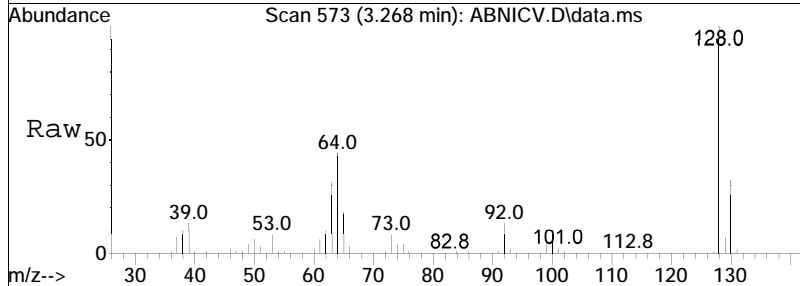
Tgt Ion:	93	Resp:	305731
Ion Ratio	100	Lower	Upper
66	38.8	37.3	55.9
65	21.0	16.7	25.1

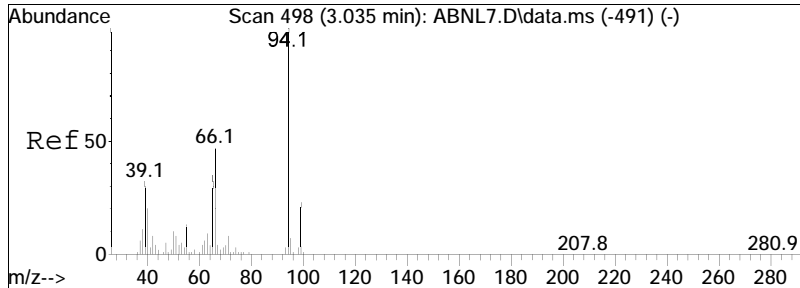




#6
 2-Chlorophenol
 Concen: 50.56 ug/ml
 RT: 3.268 min Scan# 573
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

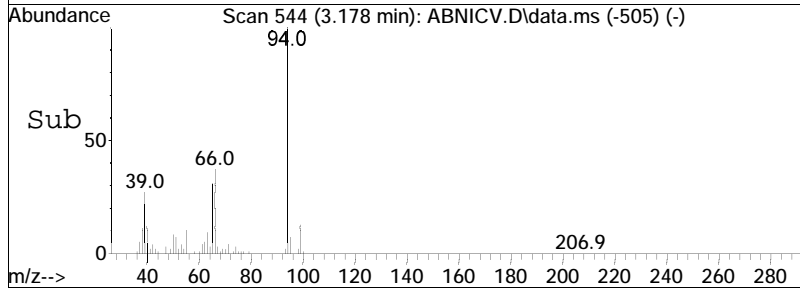
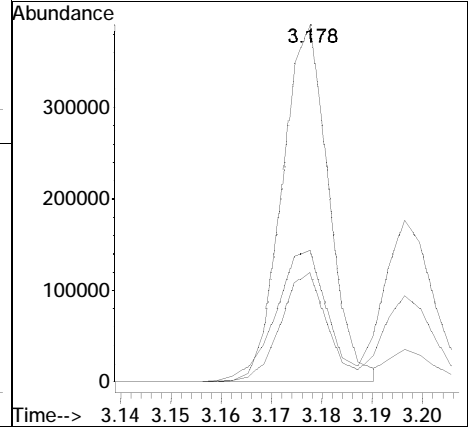
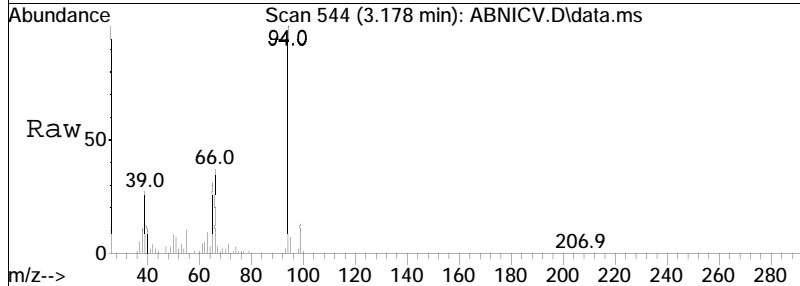
Tgt Ion	Ratio	Lower	Upper
128	100		
64	46.2	42.7	64.1
130	31.4	25.8	38.6

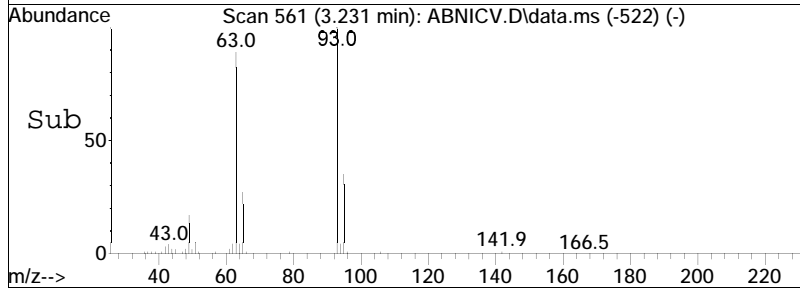
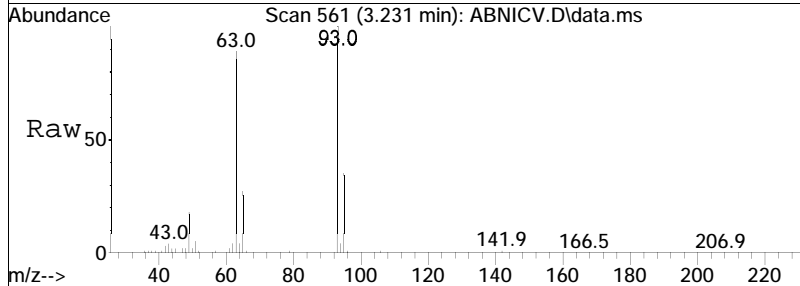
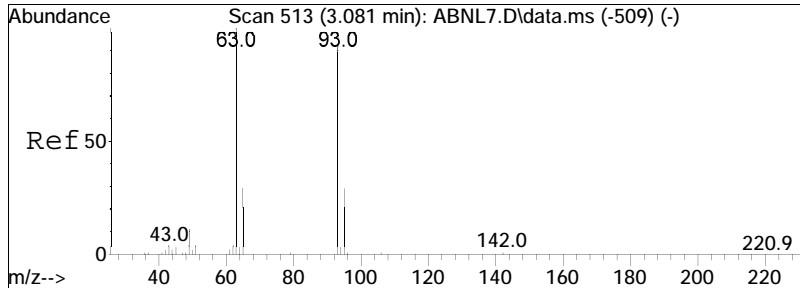




#8
 Phenol
 Concen: 50.34 ug/ml
 RT: 3.178 min Scan# 544
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

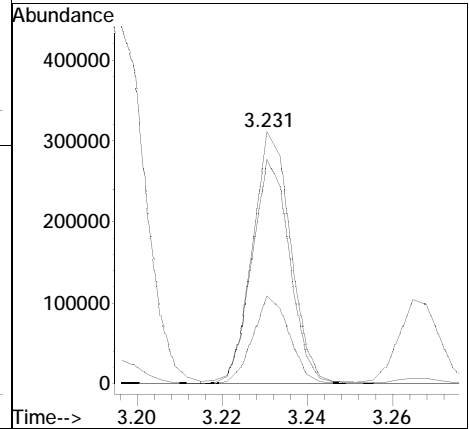
Tgt Ion:	94	Resp:	249960
Ion Ratio	100	Lower	Upper
65	30.9	20.5	30.7#
66	41.4	0.0	0.0#

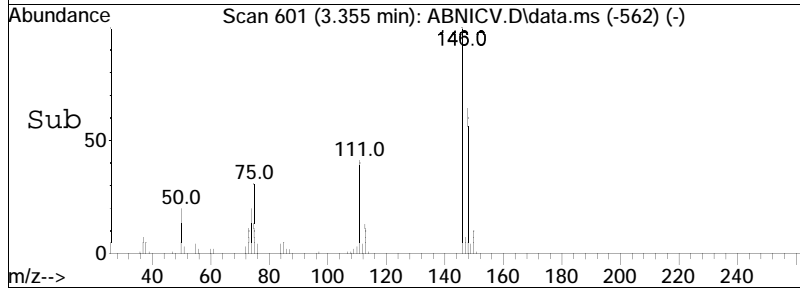
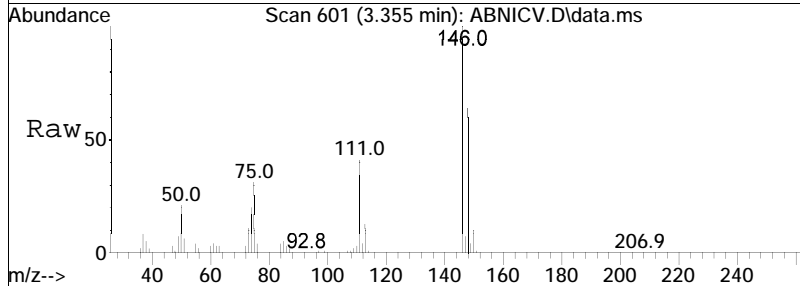
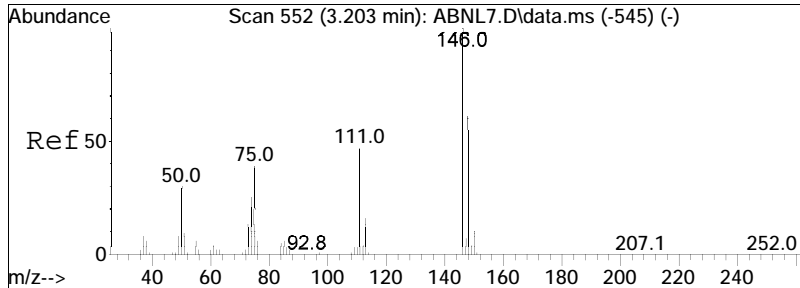




#9
 Bis(2-chloroethyl)ether
 Concen: 48.94 ug/ml
 RT: 3.231 min Scan# 561
 Delta R.T. -0.002 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

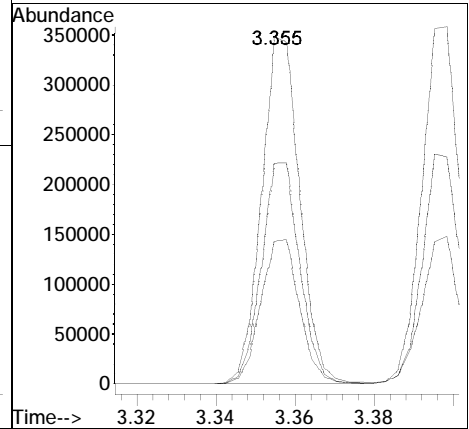
Tgt Ion	Resp	Lower	Upper
93	196044		
63	87.4	70.4	105.6
95	33.2	25.8	38.6

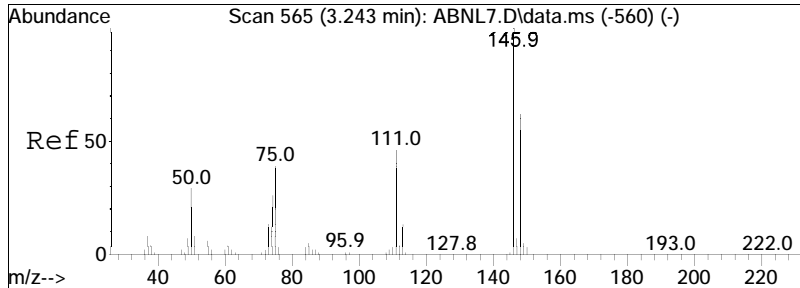




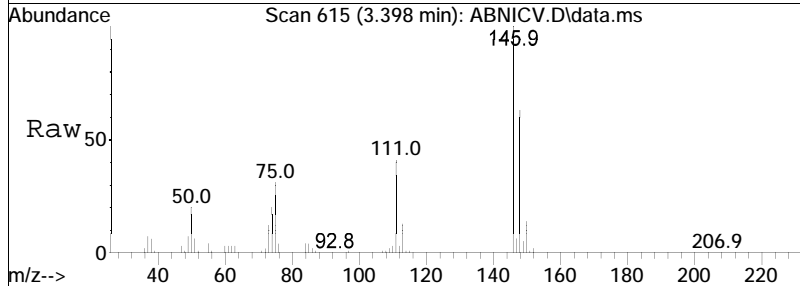
#10
 1,3-Dichlorobenzene
 Concen: 48.56 ug/ml
 RT: 3.355 min Scan# 601
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.1	35.8	53.6
148	63.7	51.2	76.8

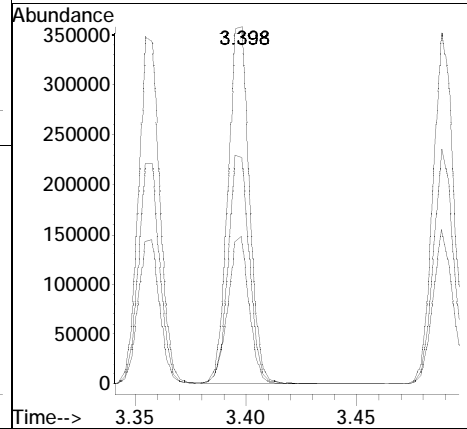
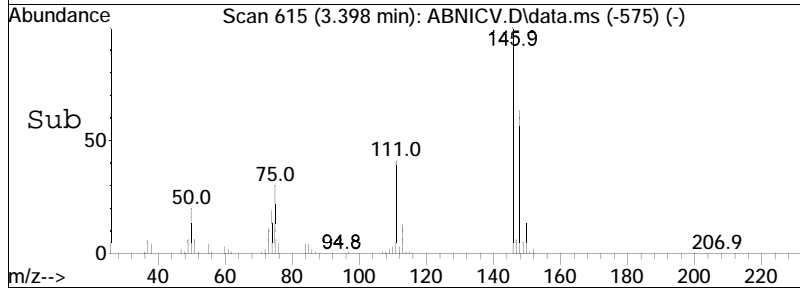


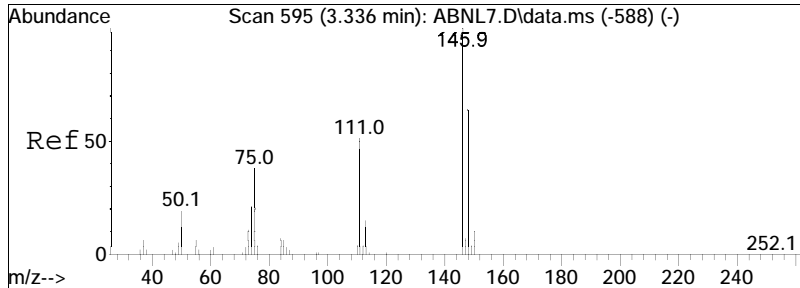


#11
 1,4-Dichlorobenzene
 Concen: 48.16 ug/ml
 RT: 3.398 min Scan# 615
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm



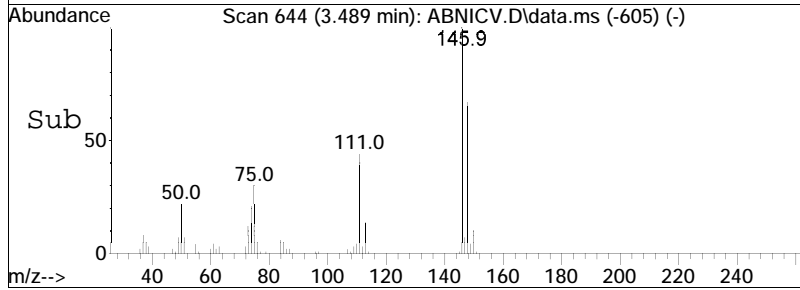
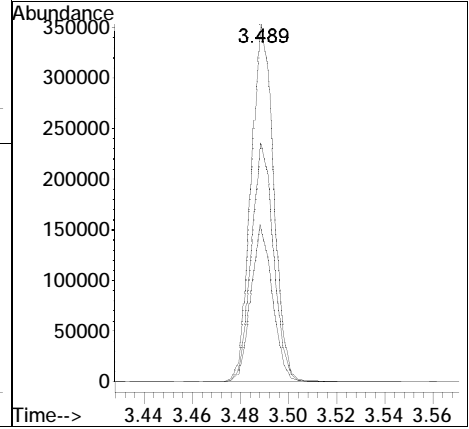
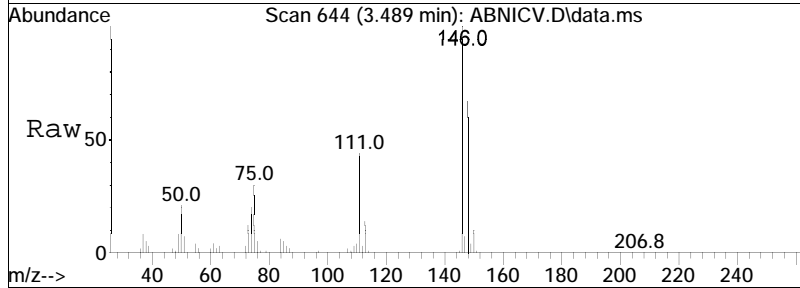
Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.6	77.4
111	40.9	35.3	52.9

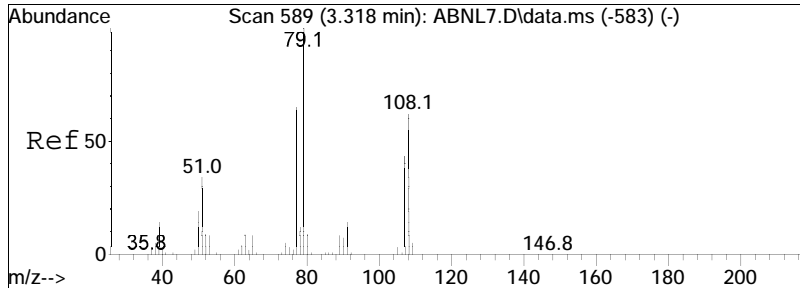




#12
 1,2-Dichlorobenzene
 Concen: 47.59 ug/ml
 RT: 3.489 min Scan# 644
 Delta R.T. -0.002 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

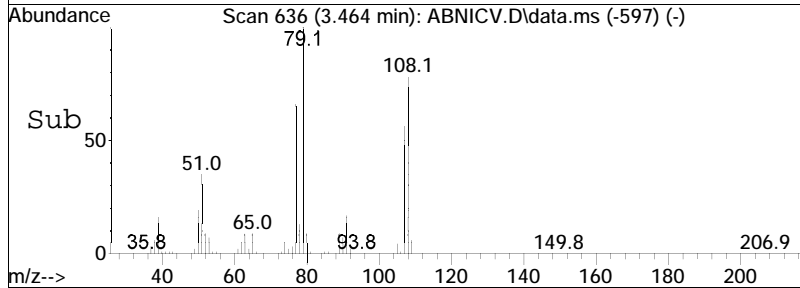
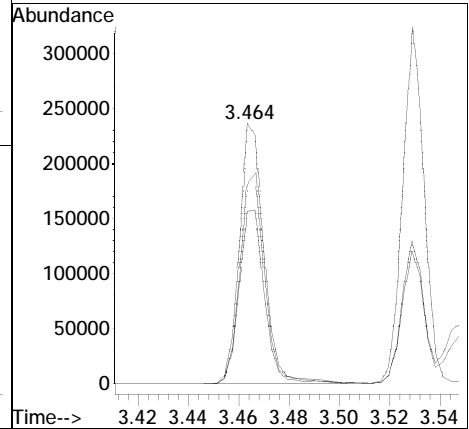
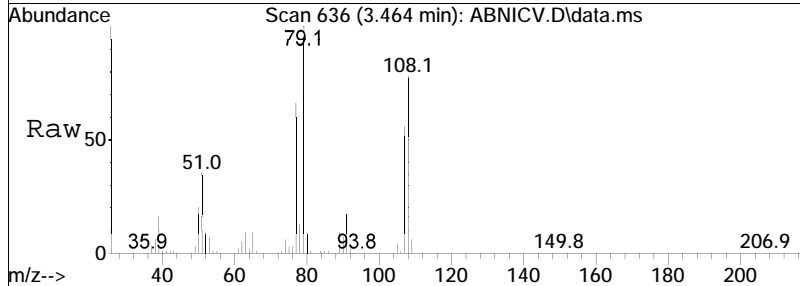
Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.0	36.0	54.0
148	65.2	49.9	74.9

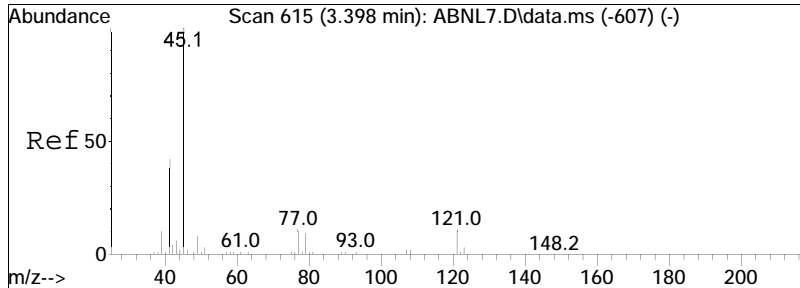




#13
 Benzyl alcohol
 Concen: 47.72 ug/ml
 RT: 3.464 min Scan# 636
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

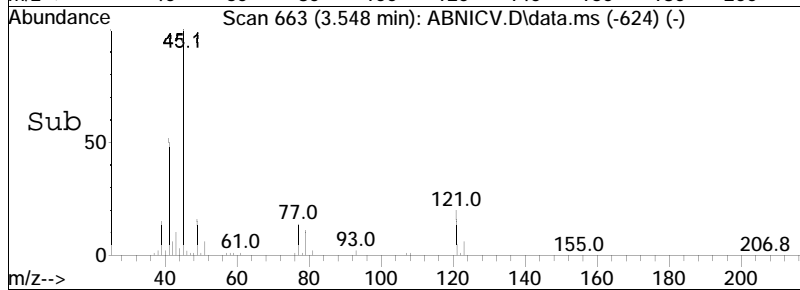
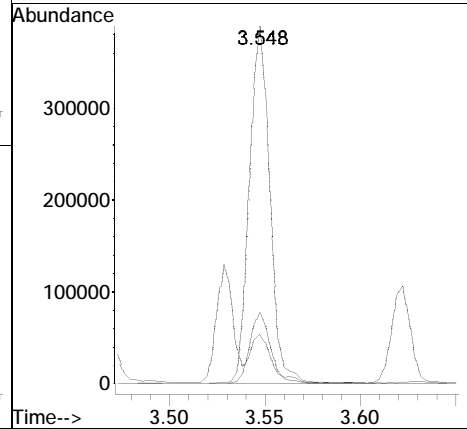
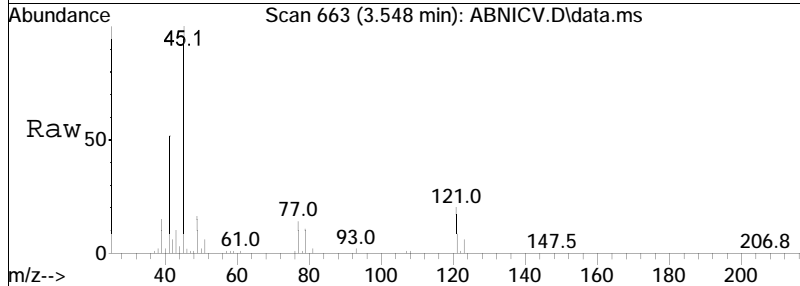
Tgt Ion:	79	Resp:	160904
Ion Ratio	Lower	Upper	
79	100		
77	69.0	52.3	78.5
108	82.3	60.2	90.4

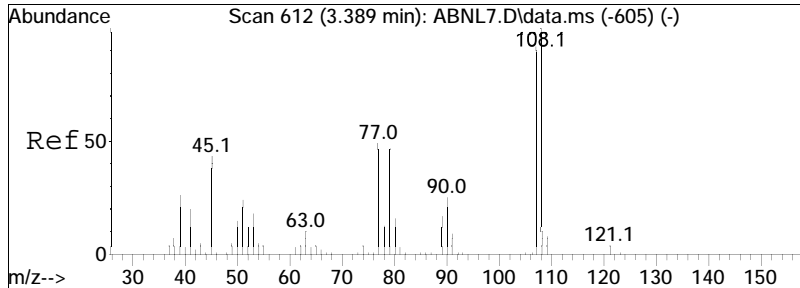




#14
 Bis(2-chloroisopropyl) ether
 Concen: 42.21 ug/ml
 RT: 3.548 min Scan# 663
 Delta R.T. -0.002 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

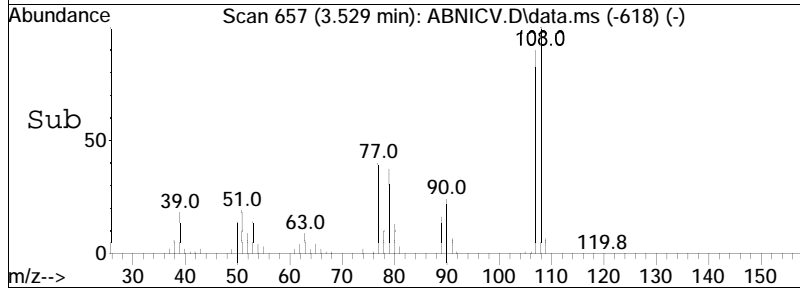
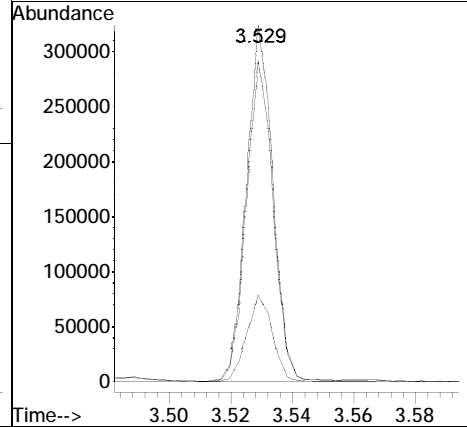
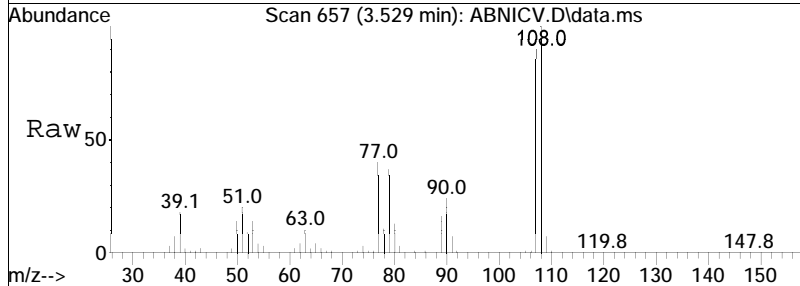
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
45	100		
121	20.0	12.6	19.0#
77	14.7	26.4	39.6#

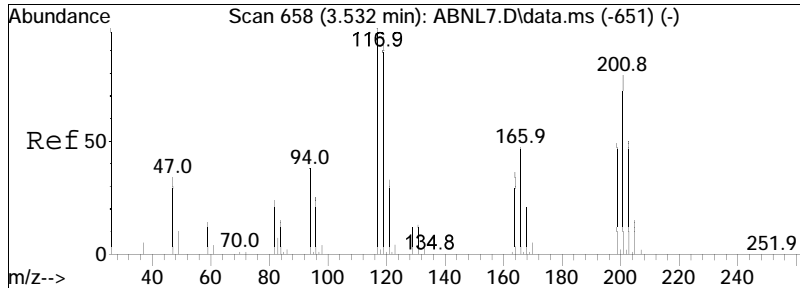




#15
 2-Methylphenol
 Concen: 49.27 ug/ml
 RT: 3.529 min Scan# 657
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

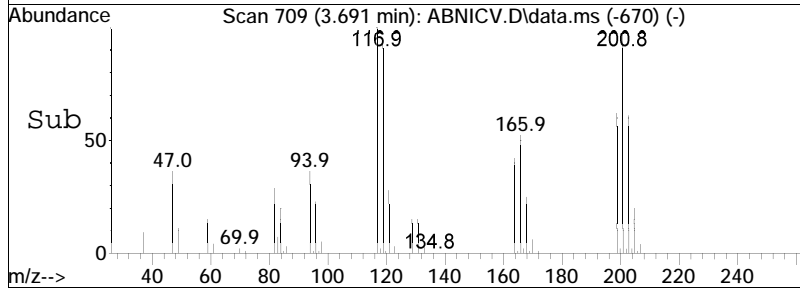
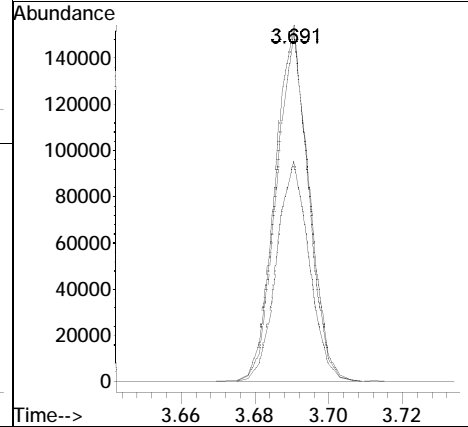
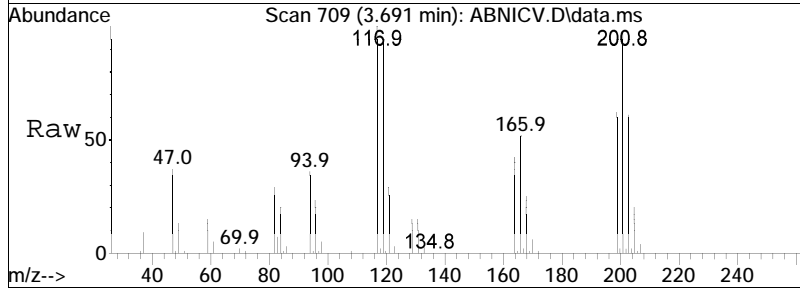
Tgt Ion	Resp	Lower	Upper
108	100		
107	90.7	72.8	109.2
90	24.1	20.2	30.4

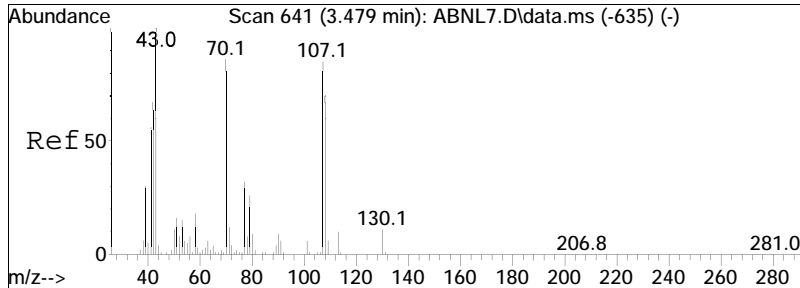




#16
 Hexachloroethane
 Concen: 49.04 ug/ml
 RT: 3.691 min Scan# 709
 Delta R.T. -0.002 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

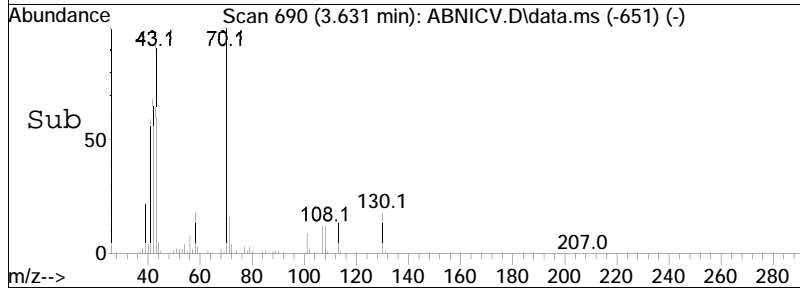
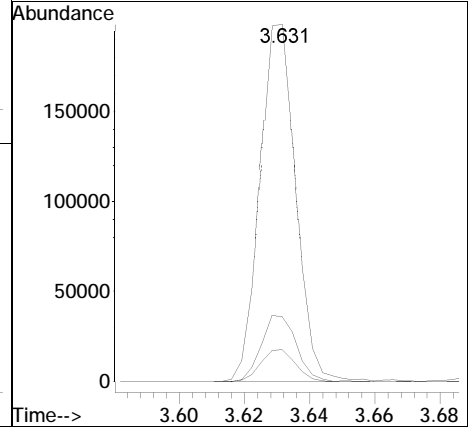
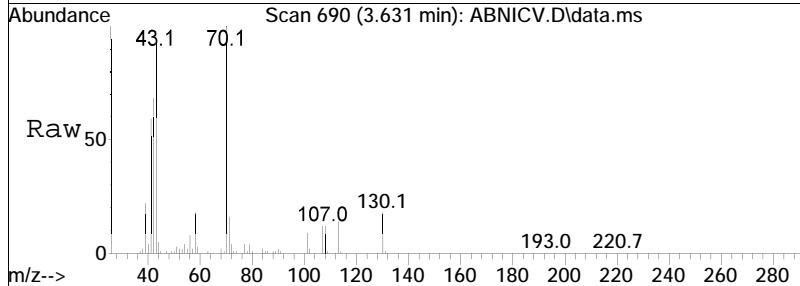
Tgt Ion	Resp	Lower	Upper
117	100		
201	97.1	64.5	96.7#
199	61.2	40.3	60.5#

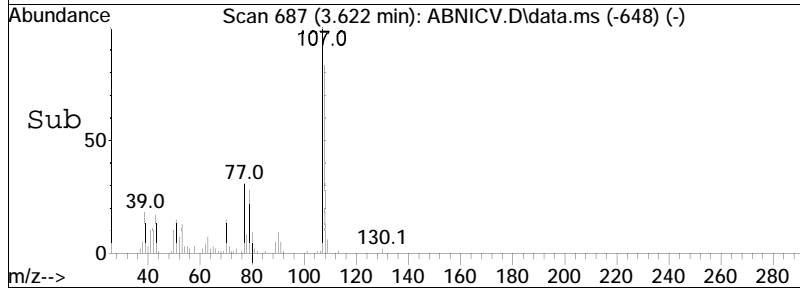
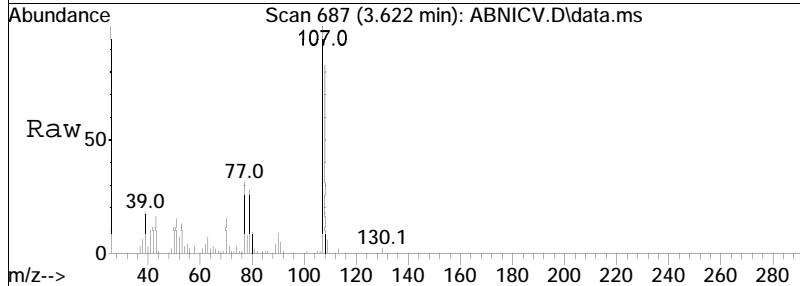
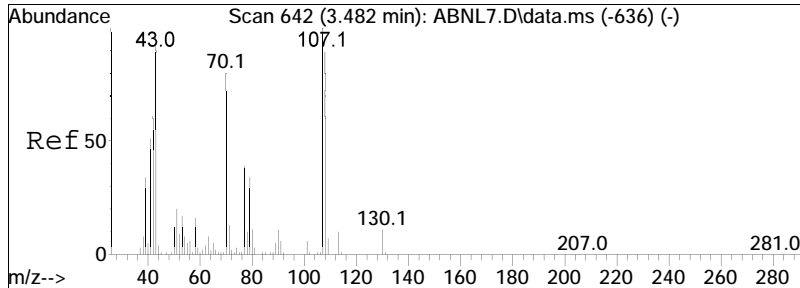




#17
 n-Nitrosodi-n-propylamine
 Concen: 48.97 ug/ml
 RT: 3.631 min Scan# 690
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

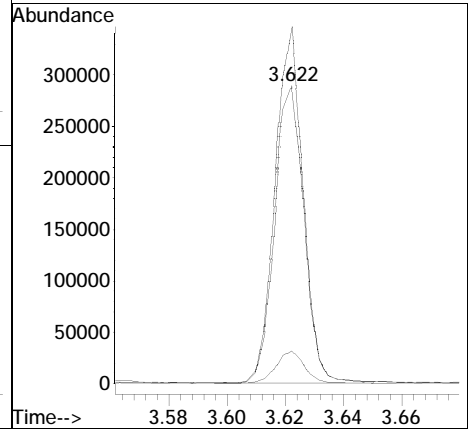
Tgt Ion	Resp	Lower	Upper
70	151453		
130	18.2	15.0	22.4
101	8.8	7.4	11.0

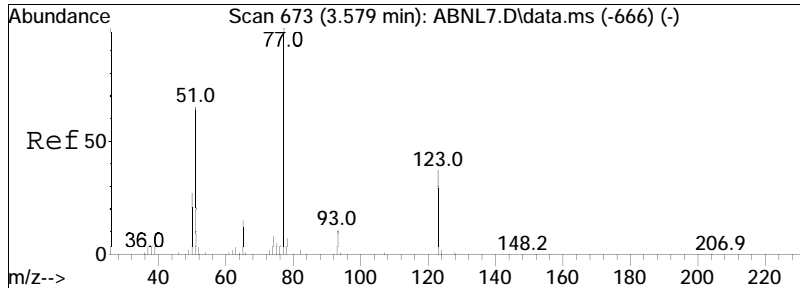




#18
 3-Methylphenol/4-Methylphenol
 Concen: 51.19 ug/ml
 RT: 3.622 min Scan# 687
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

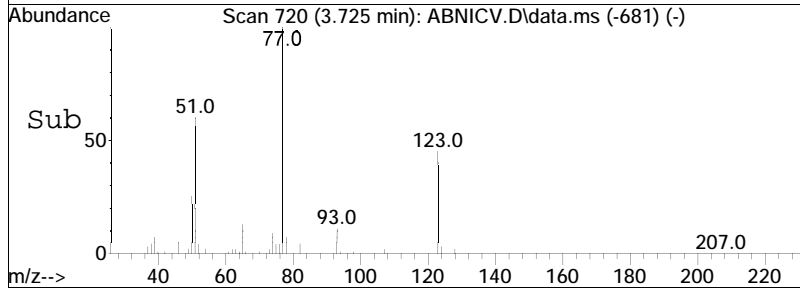
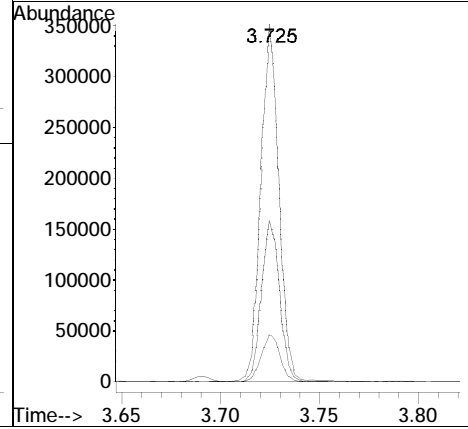
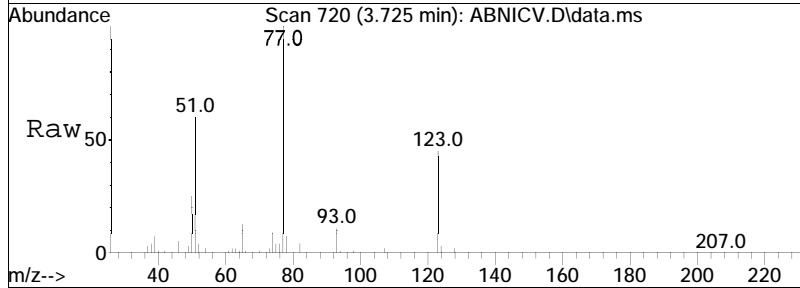
Tgt Ion	Ratio	Lower	Upper
108	100		
107	114.4	90.4	135.6
90	10.7	9.2	13.8

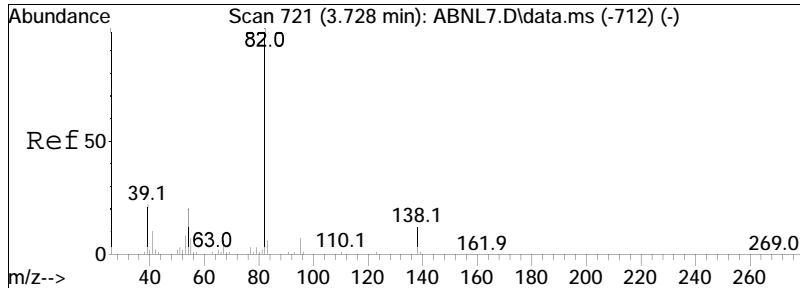




#20
 Nitrobenzene
 Concen: 48.35 ug/ml
 RT: 3.725 min Scan# 720
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

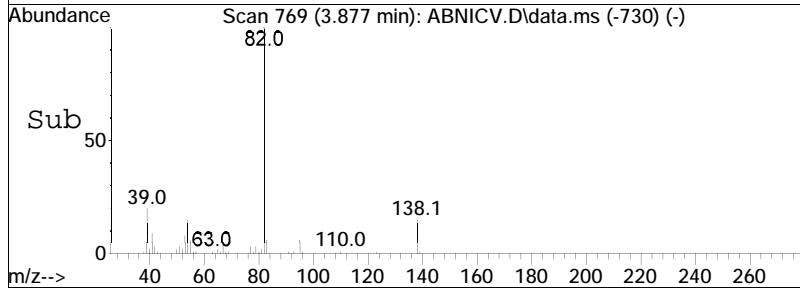
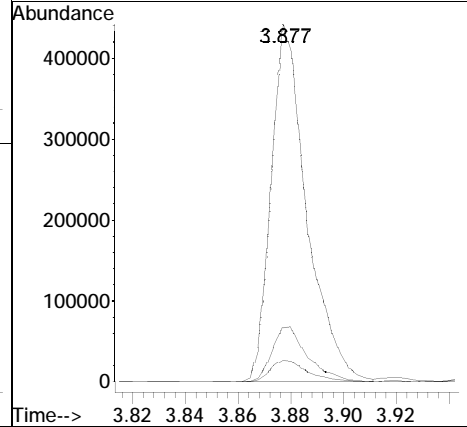
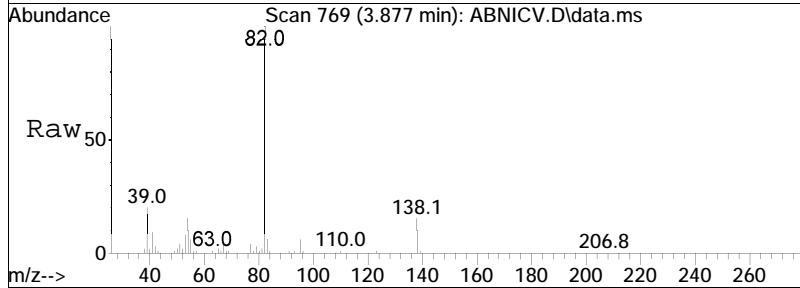
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
77	100		
123	45.7	35.0	52.4
65	13.9	11.5	17.3

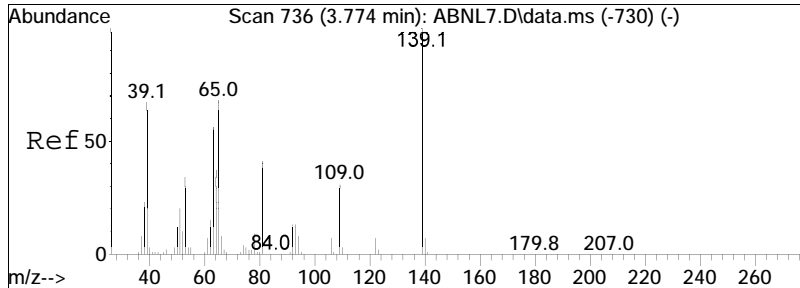




#21
 Isophorone
 Concen: 50.80 ug/ml
 RT: 3.877 min Scan# 769
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

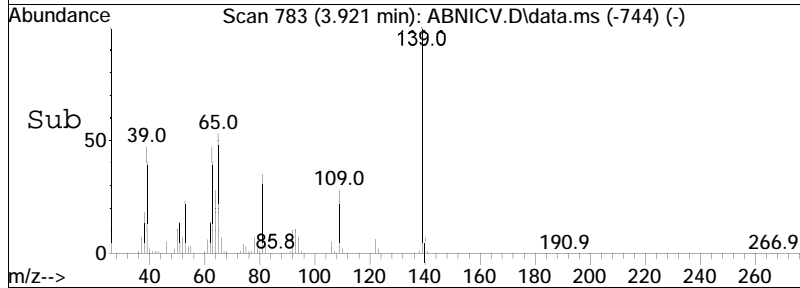
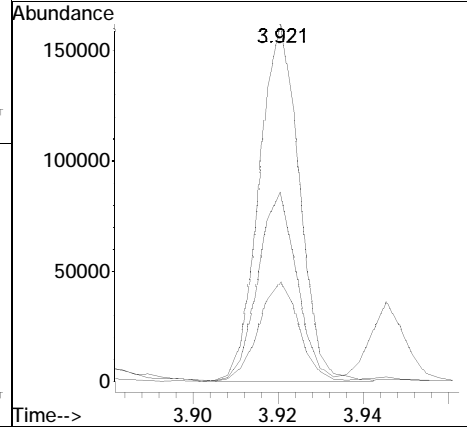
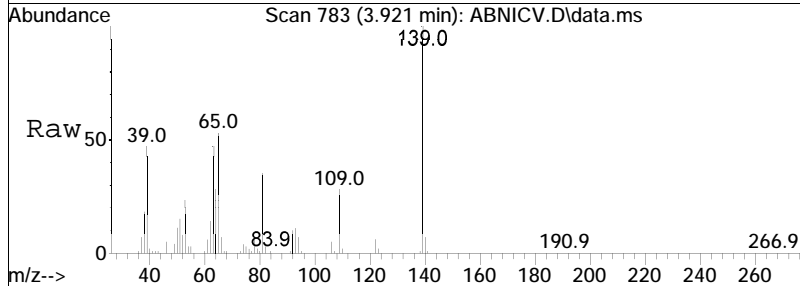
Tgt Ion	Resp	Lower	Upper
82	410540		
138	15.6	12.8	19.2
95	6.5	5.5	8.3

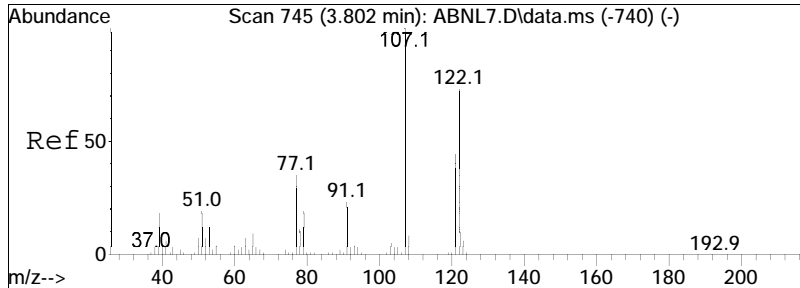




#22
 2-Nitrophenol
 Concen: 52.22 ug/ml
 RT: 3.921 min Scan# 783
 Delta R.T. -0.002 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

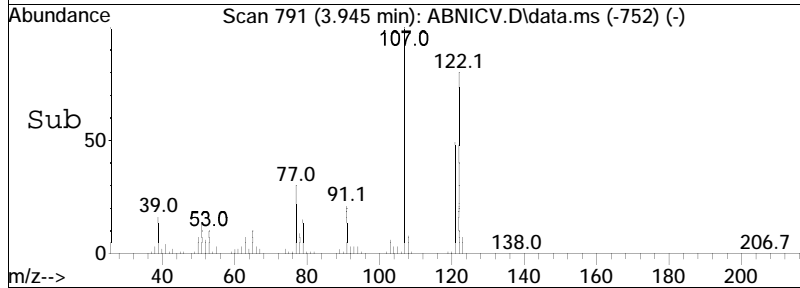
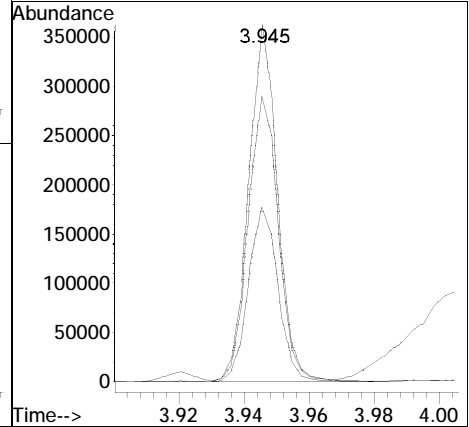
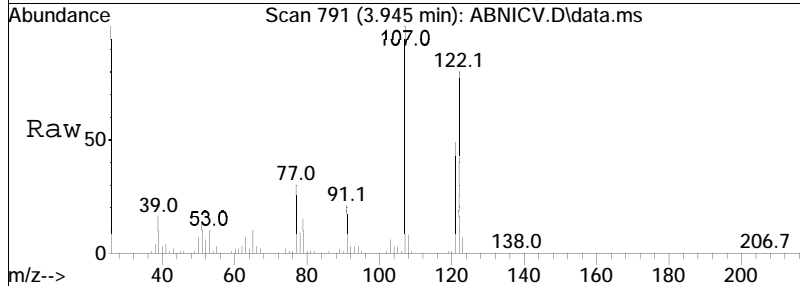
Tgt Ion	Ratio	Lower	Upper
139	100		
109	28.2	24.8	37.2
65	51.3	45.5	68.3

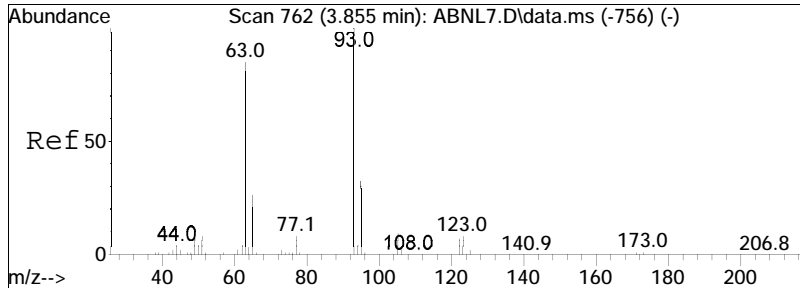




#23
 2,4-Dimethylphenol
 Concen: 51.55 ug/ml
 RT: 3.945 min Scan# 791
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

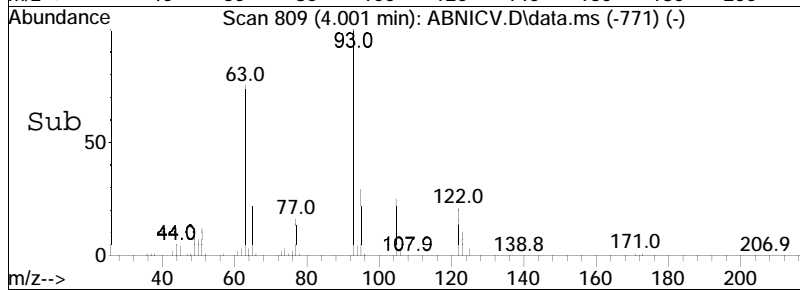
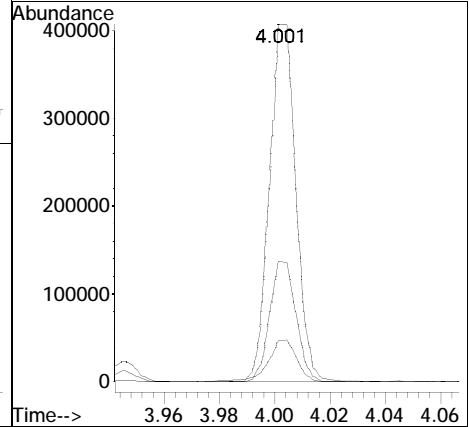
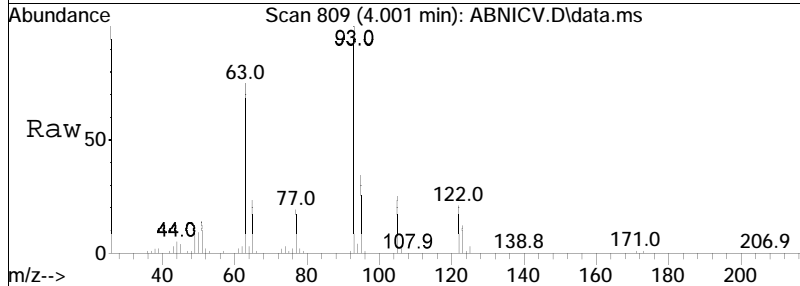
Tgt Ion	Resp	Lower	Upper
107	100		
121	50.8	39.7	59.5
122	83.6	66.8	100.2

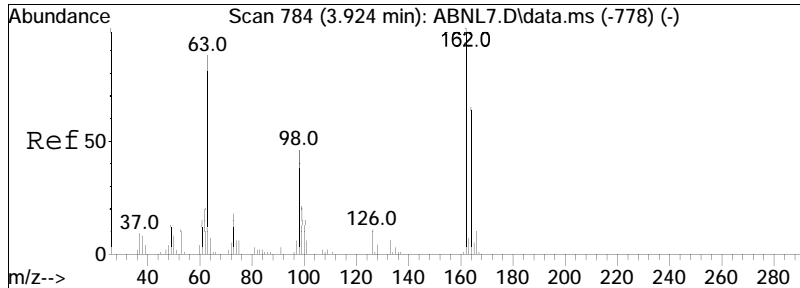




#24
 Bis(2-chloroethoxy)methane
 Concen: 51.91 ug/ml
 RT: 4.001 min Scan# 809
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

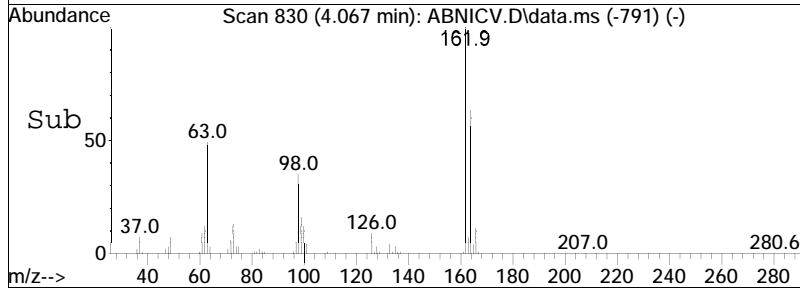
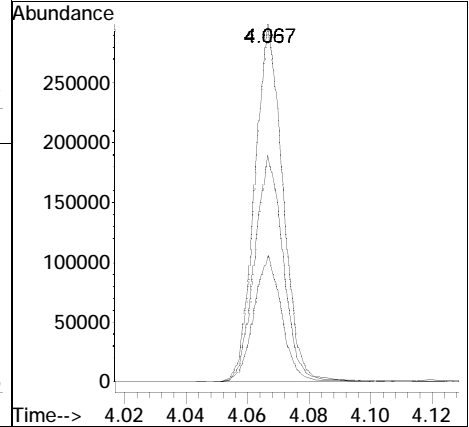
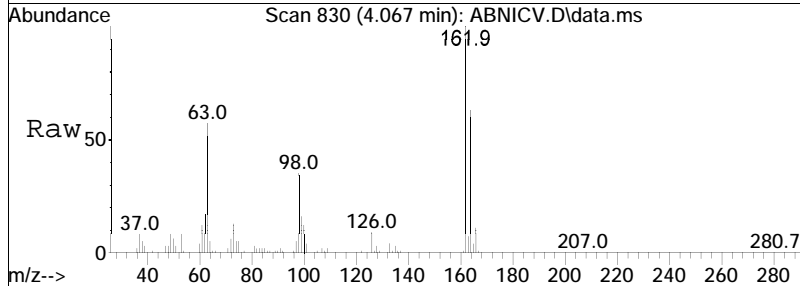
Tgt Ion:	93	Resp:	267978
Ion Ratio	Lower	Upper	
93	100		
95	34.0	26.1	39.1
123	13.6	9.8	14.8

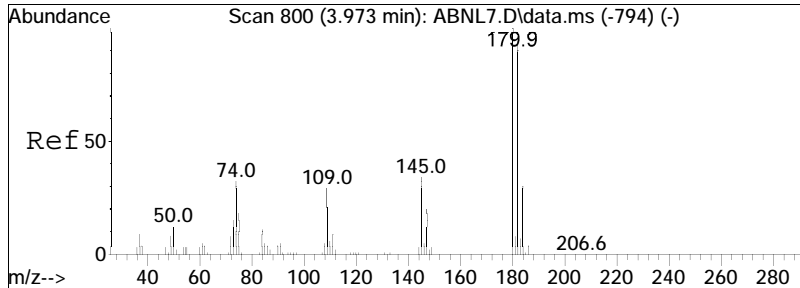




#25
 2,4-Dichlorophenol
 Concen: 51.85 ug/ml
 RT: 4.067 min Scan# 830
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

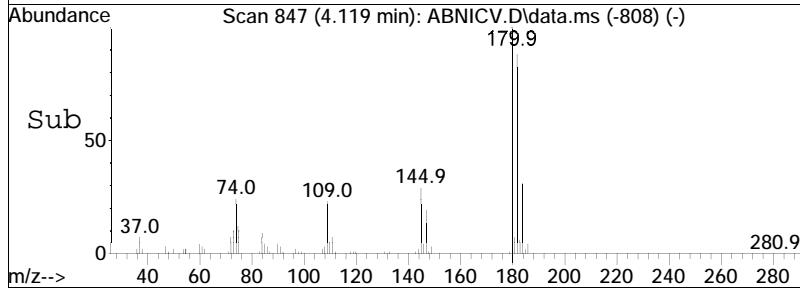
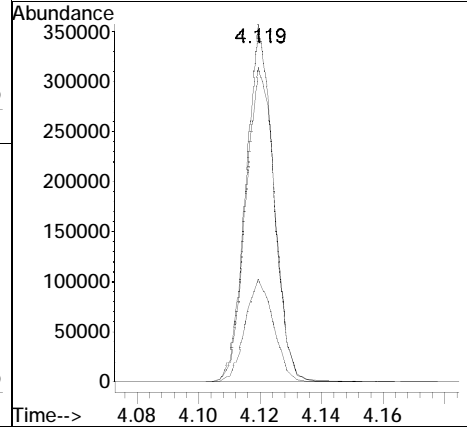
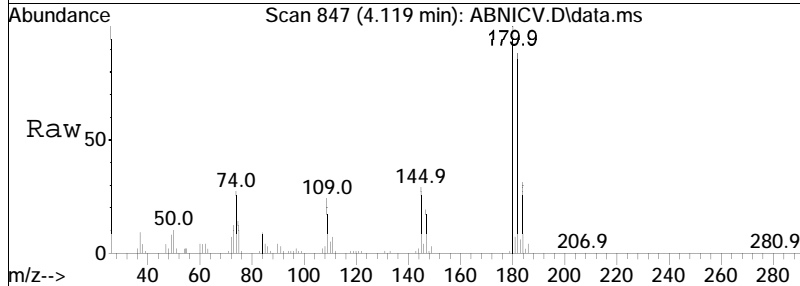
Tgt Ion	Resp	Lower	Upper
162	188915		
164	64.6	50.4	75.6
98	35.2	31.6	47.4

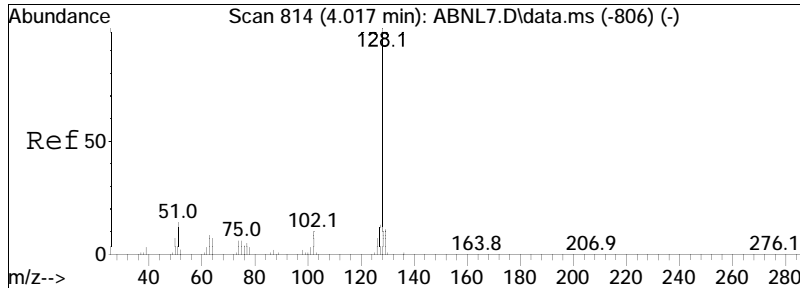




#26
 1,2,4-Trichlorobenzene
 Concen: 51.17 ug/ml
 RT: 4.119 min Scan# 847
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

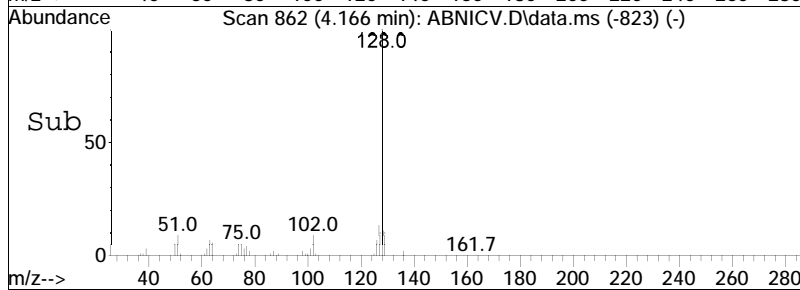
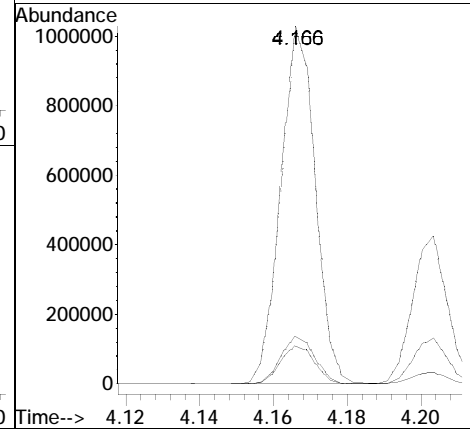
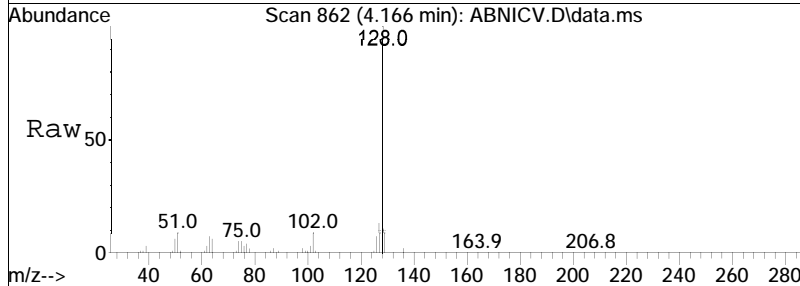
Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.3	74.7	112.1
145	29.7	26.6	39.8

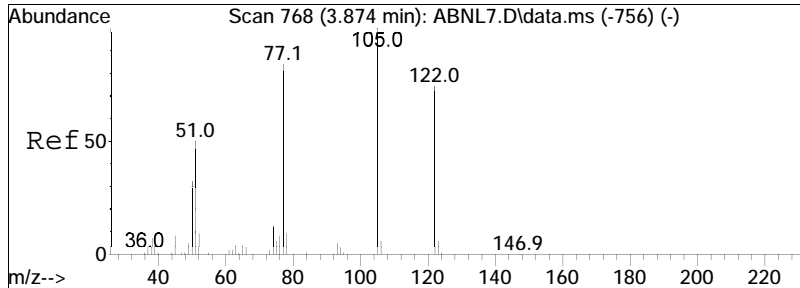




#36
 Naphthalene
 Concen: 48.15 ug/ml
 RT: 4.166 min Scan# 862
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

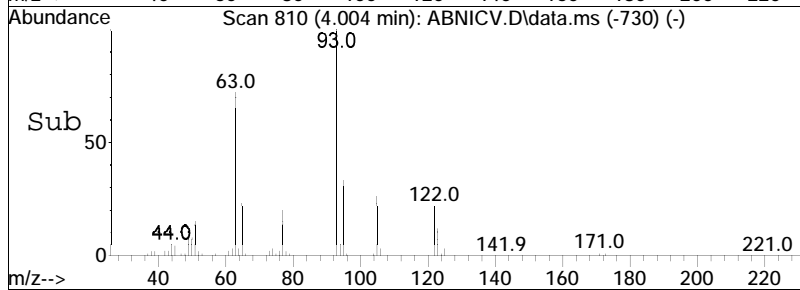
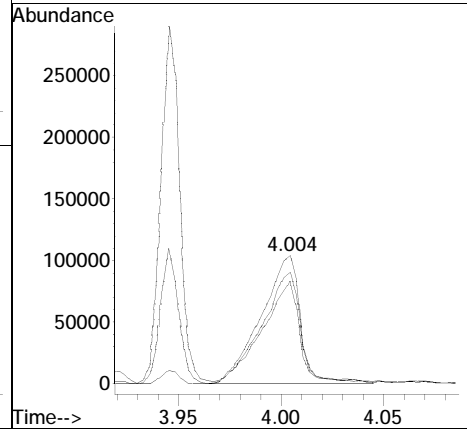
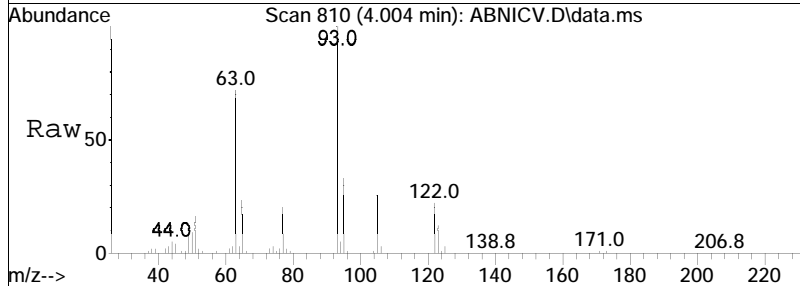
Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.7	13.1
127	13.3	10.7	16.1

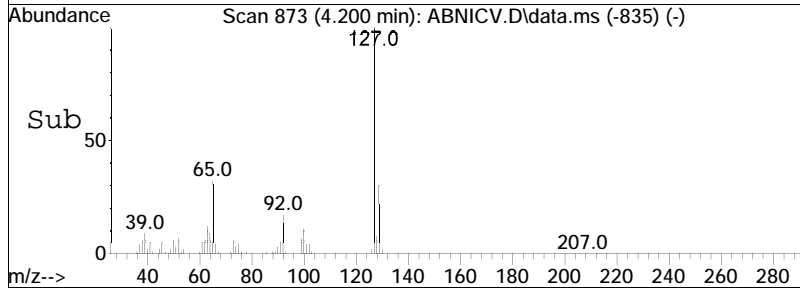
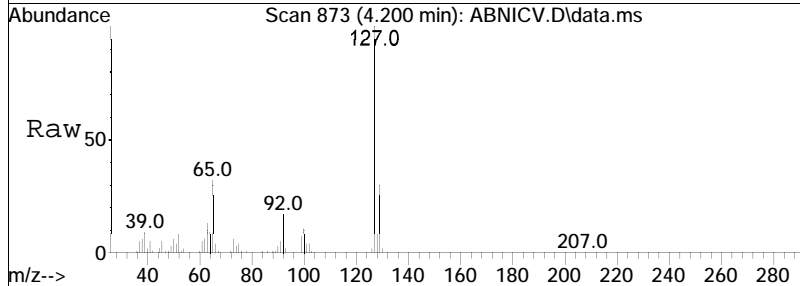
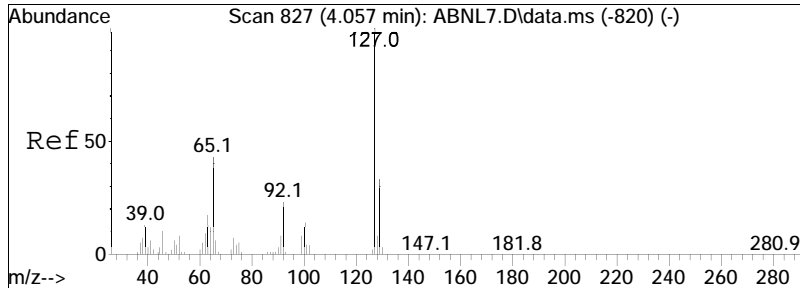




#37
 Benzoic Acid
 Concen: 42.42 ug/ml
 RT: 4.004 min Scan# 810
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

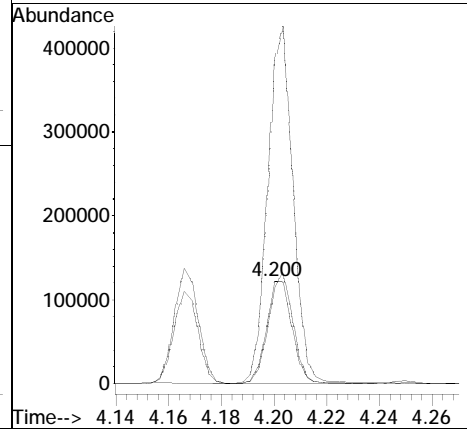
Tgt Ion	Ratio	Lower	Upper
105	100		
122	83.9	61.8	92.6
77	76.2	62.2	93.4

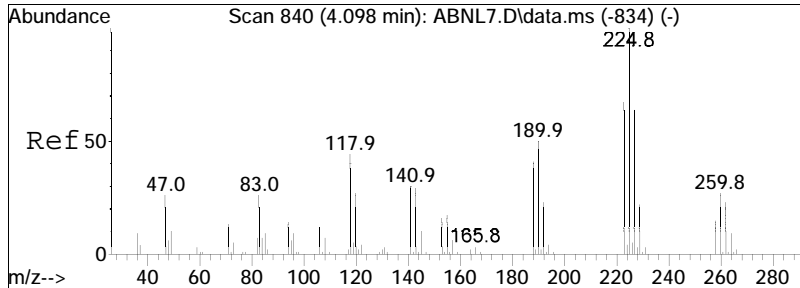




#38
 4-Chloroaniline
 Concen: 48.99 ug/ml
 RT: 4.200 min Scan# 873
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

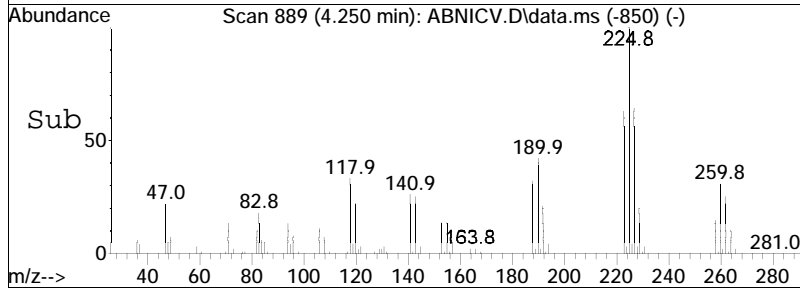
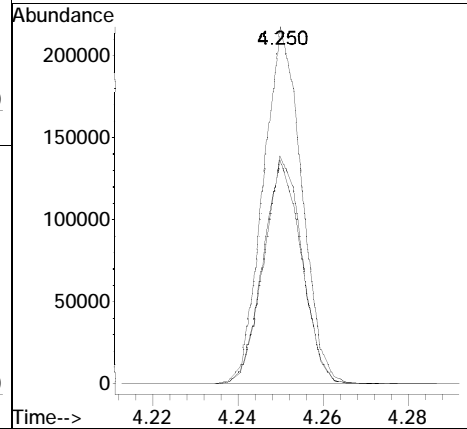
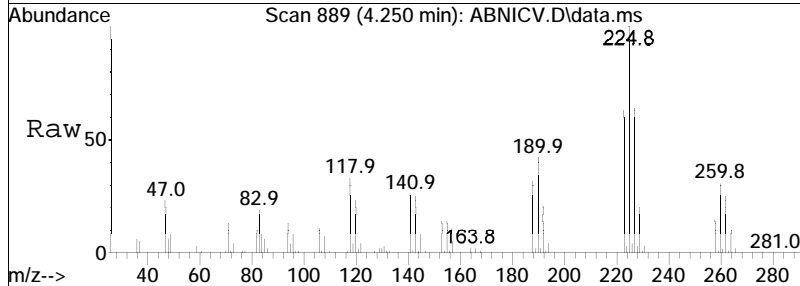
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
65	100		
127	335.0	233.2	349.8
129	102.0	74.6	111.8

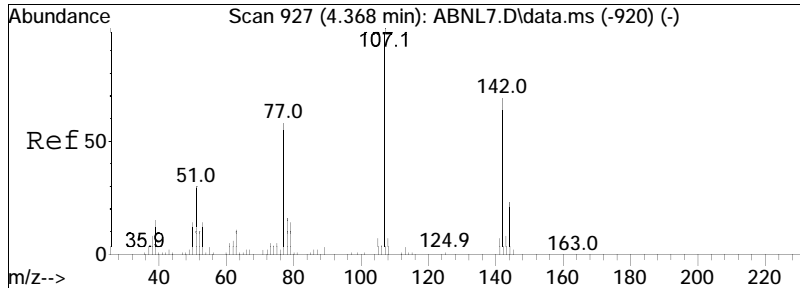




#39
 Hexachlorobutadiene
 Concen: 49.27 ug/ml
 RT: 4.250 min Scan# 889
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

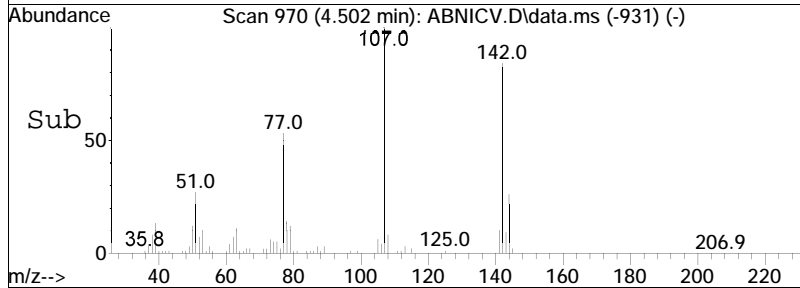
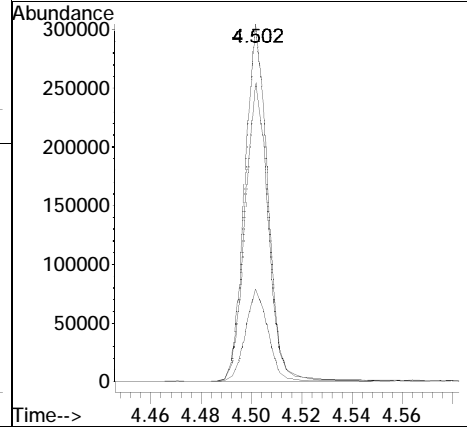
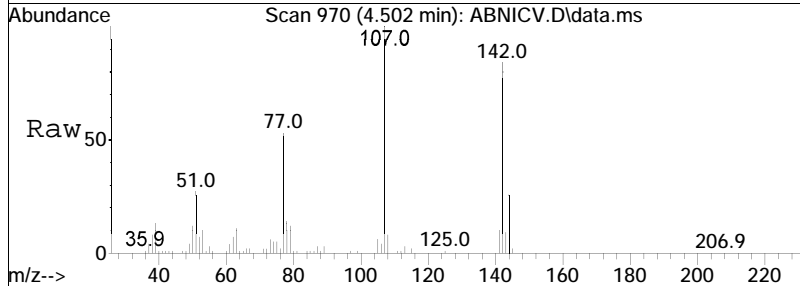
Tgt Ion	Resp	Lower	Upper
225	100		
223	63.1	49.4	74.0
227	63.5	50.8	76.2

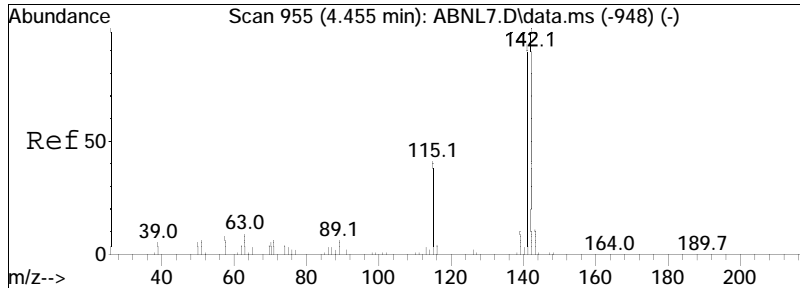




#40
 p-Chloro-m-cresol
 Concen: 51.28 ug/ml
 RT: 4.502 min Scan# 970
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

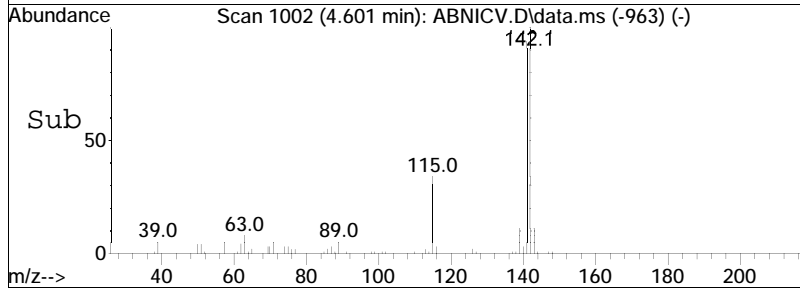
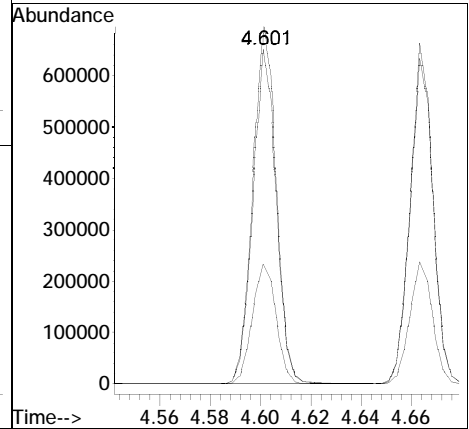
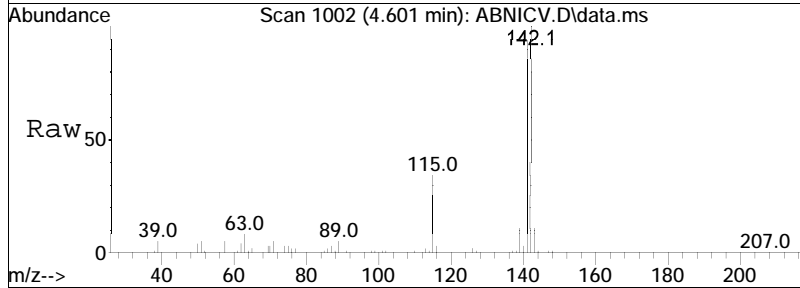
Tgt Ion	Ratio	Lower	Upper
107	100		
144	25.8	19.6	29.4
142	84.1	62.2	93.4

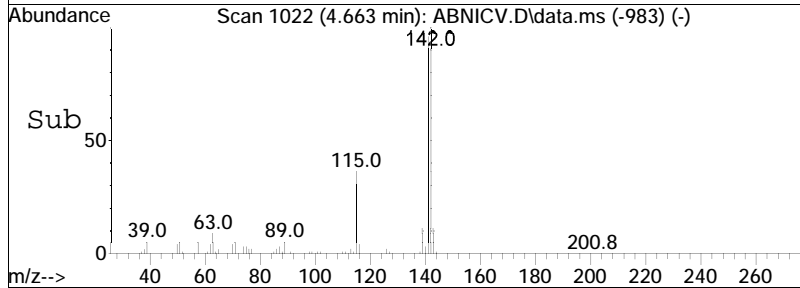
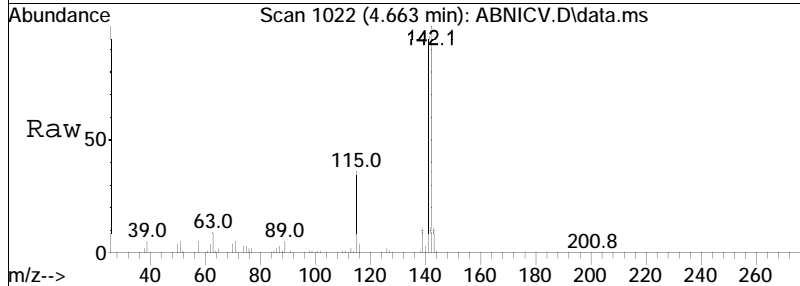
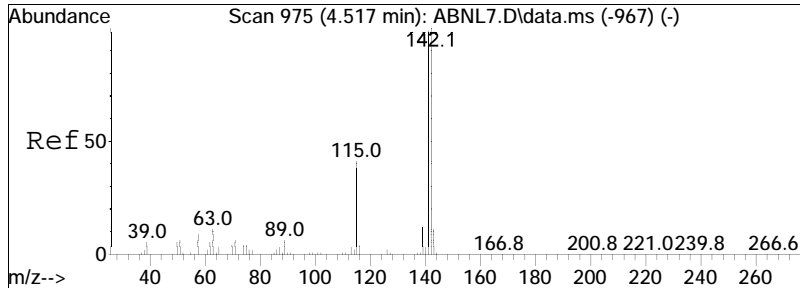




#41
 2-Methylnaphthalene
 Concen: 50.76 ug/ml
 RT: 4.601 min Scan# 1002
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

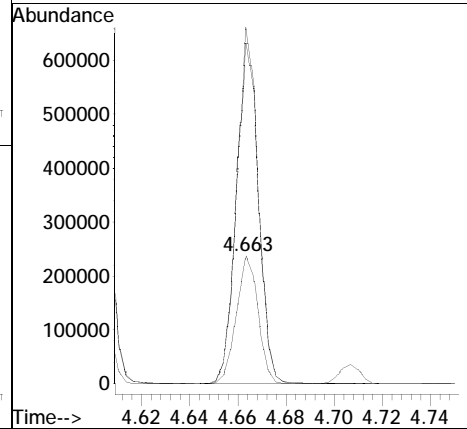
Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.4	71.8	107.8
115	34.0	29.1	43.7

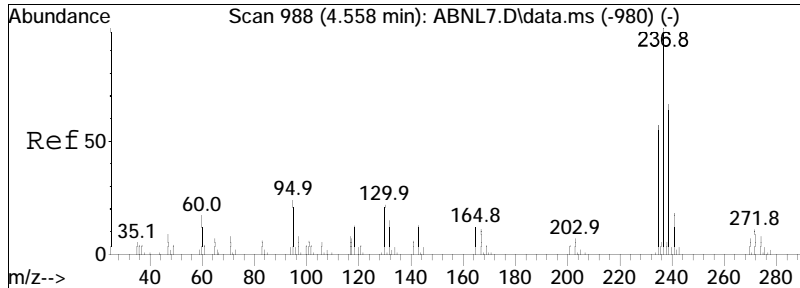




#42
 1-Methylnaphthalene
 Concen: 46.75 ug/ml
 RT: 4.663 min Scan# 1022
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

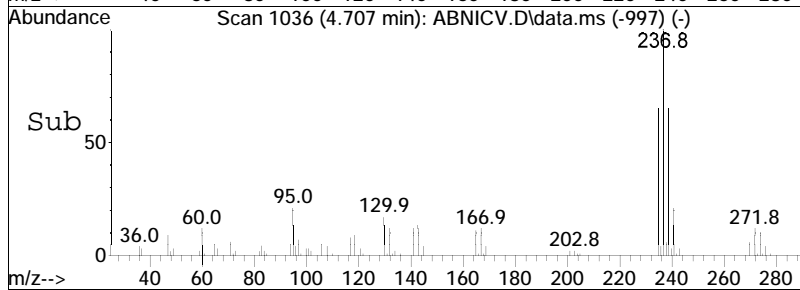
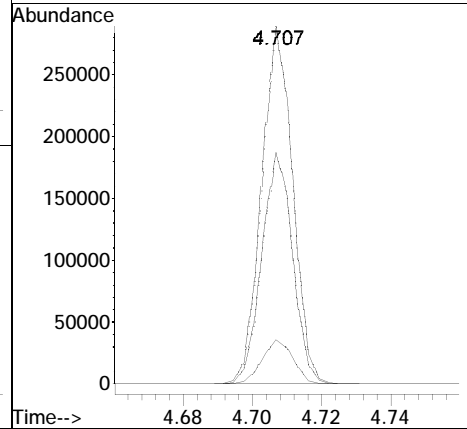
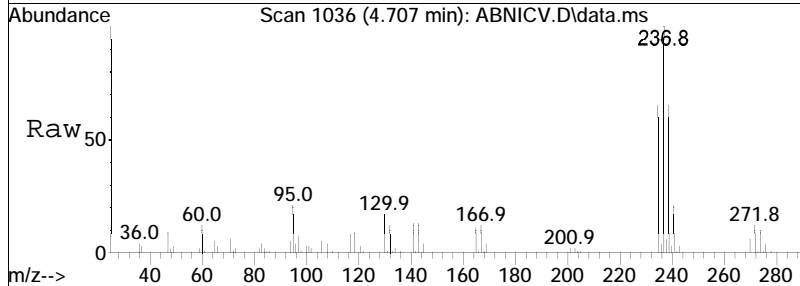
Tgt Ion	Resp	Lower	Upper
115	100		
141	265.6	196.6	294.8
142	274.5	209.2	313.8

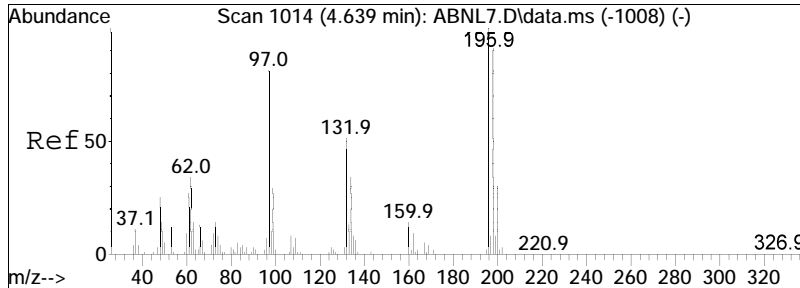




#43
 Hexachlorocyclopentadiene
 Concen: 50.22 ug/ml
 RT: 4.707 min Scan# 1036
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

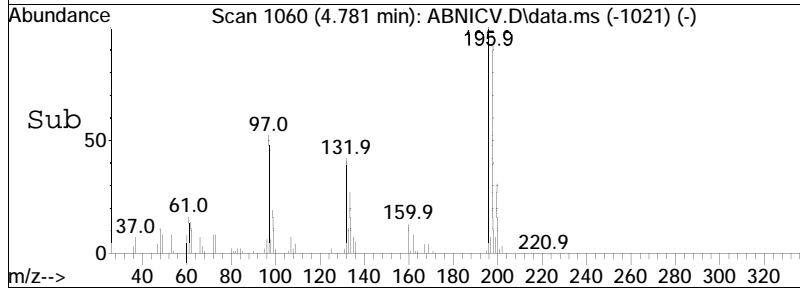
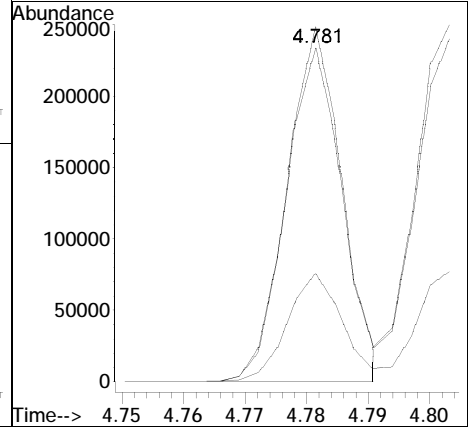
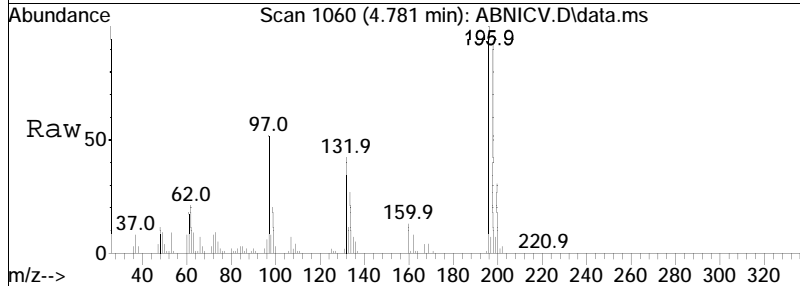
Tgt Ion	Resp	Lower	Upper
237	100		
235	64.3	47.8	71.6
272	12.5	10.4	15.6

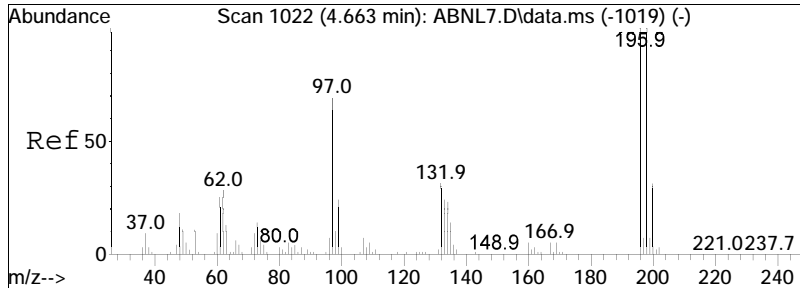




#44
 2,4,6-Trichlorophenol
 Concen: 55.64 ug/ml
 RT: 4.781 min Scan# 1060
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

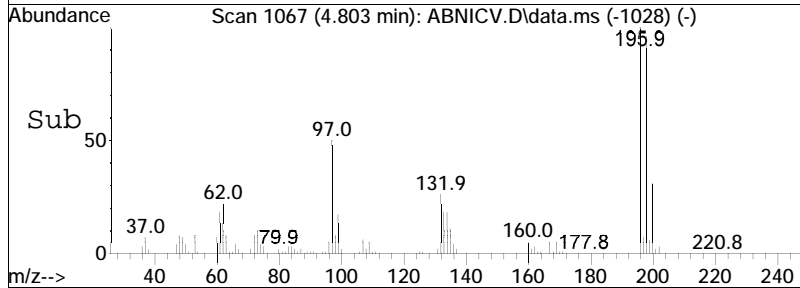
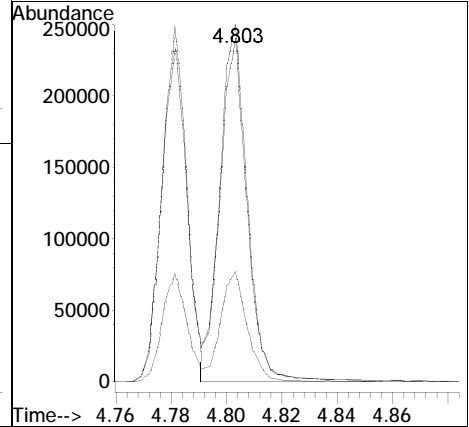
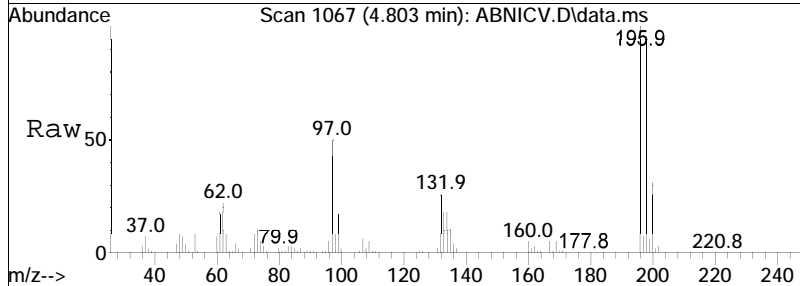
Tgt Ion	Resp	Lower	Upper
196	154938		
196	100		
198	95.8	81.5	122.3
200	30.4	26.2	39.2

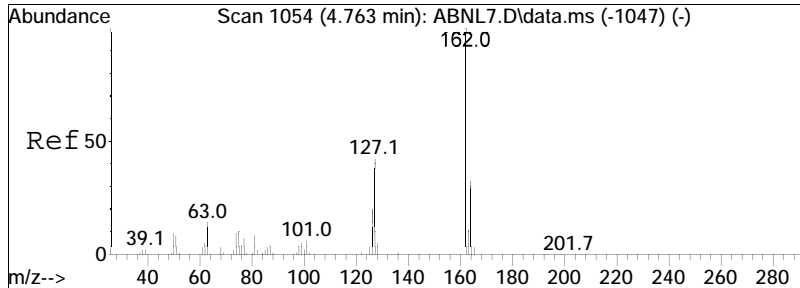




#45
 2,4,5-Trichlorophenol
 Concen: 56.01 ug/ml
 RT: 4.803 min Scan# 1067
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

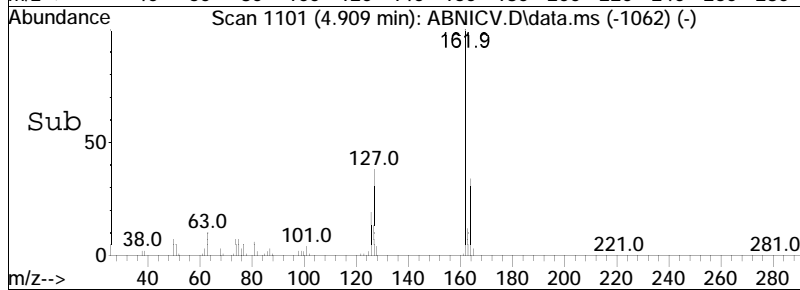
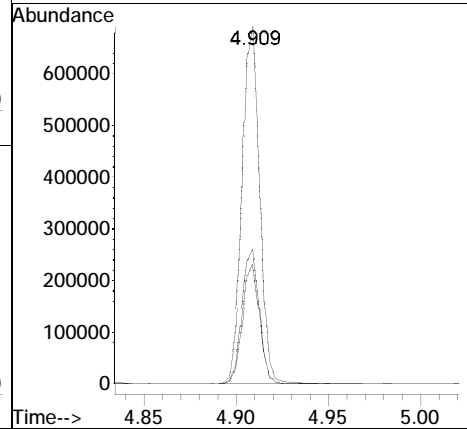
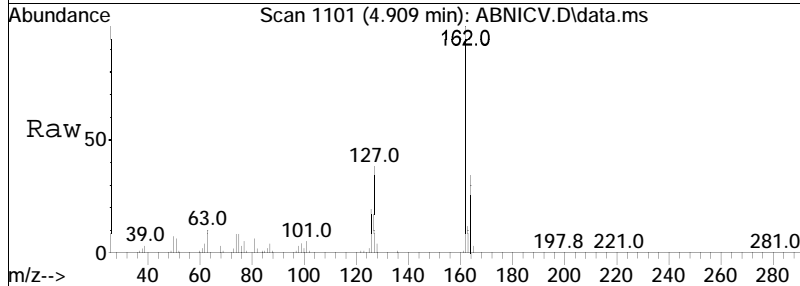
Tgt Ion	Ratio	Lower	Upper
196	100		
200	29.5	25.5	38.3
198	93.4	79.2	118.8

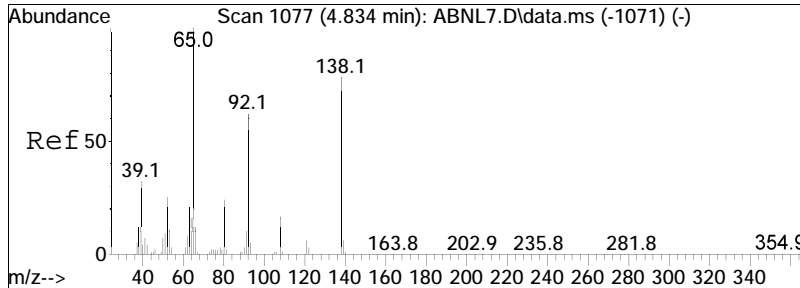




#47
 2-Chloronaphthalene
 Concen: 50.40 ug/ml
 RT: 4.909 min Scan# 1101
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

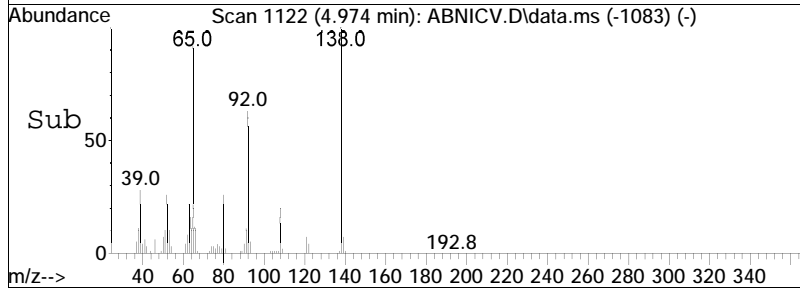
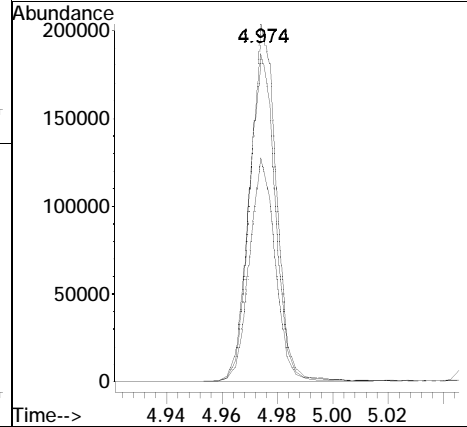
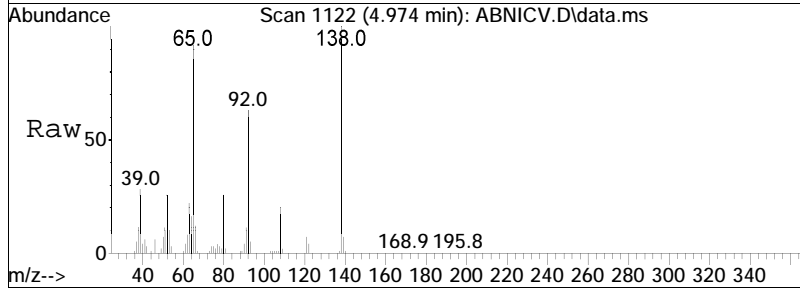
Tgt Ion	Ratio	Lower	Upper
162	100		
127	37.3	33.6	50.4
164	32.7	25.8	38.8

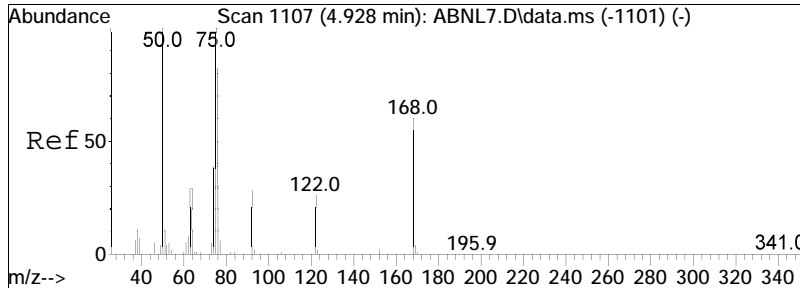




#48
 2-Nitroaniline
 Concen: 50.44 ug/ml
 RT: 4.974 min Scan# 1122
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

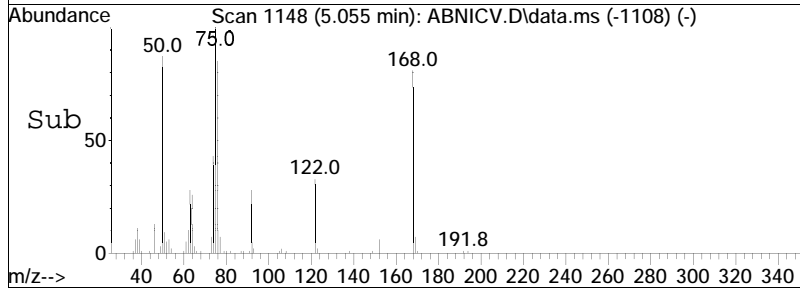
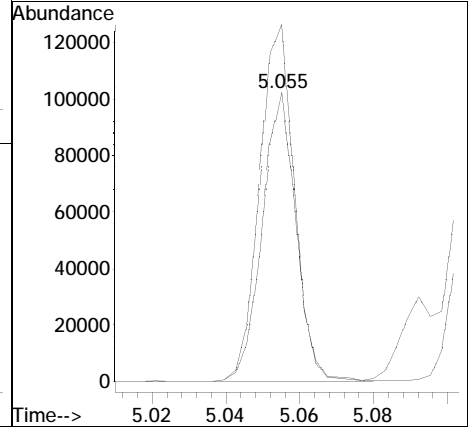
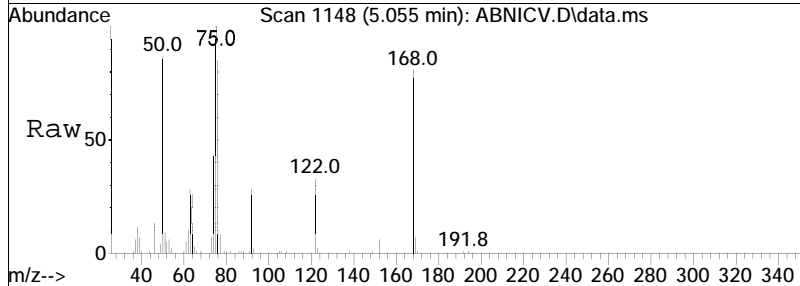
Tgt Ion	Ratio	Lower	Upper
138	100		
92	61.9	54.2	81.2
65	92.2	82.8	124.2

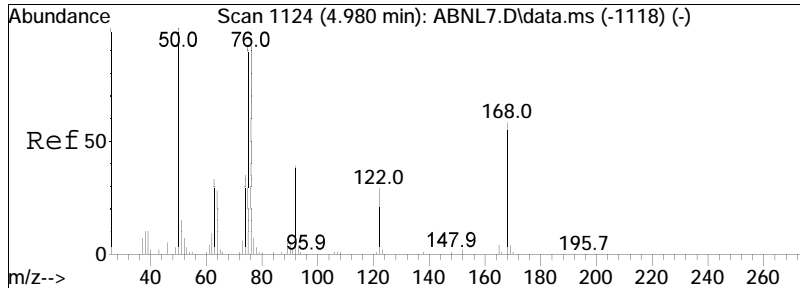




#49
 1,4-Dinitrobenzene
 Concen: 53.13 ug/ml
 RT: 5.055 min Scan# 1148
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

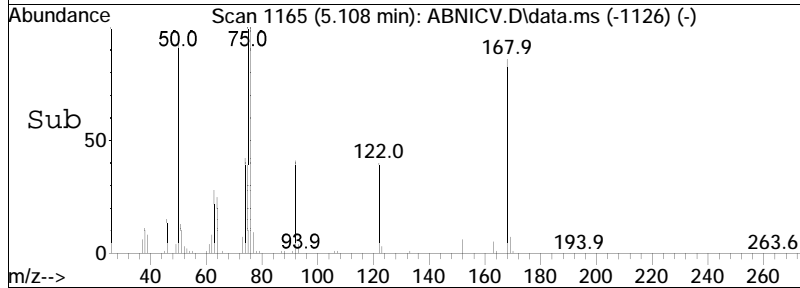
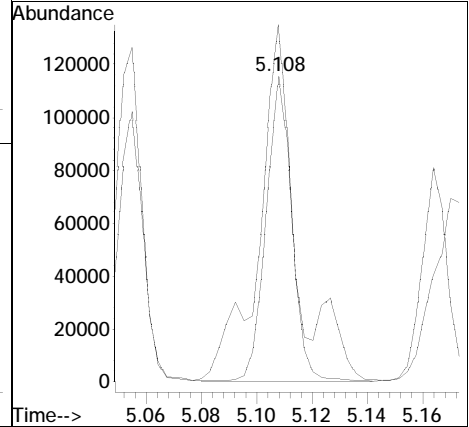
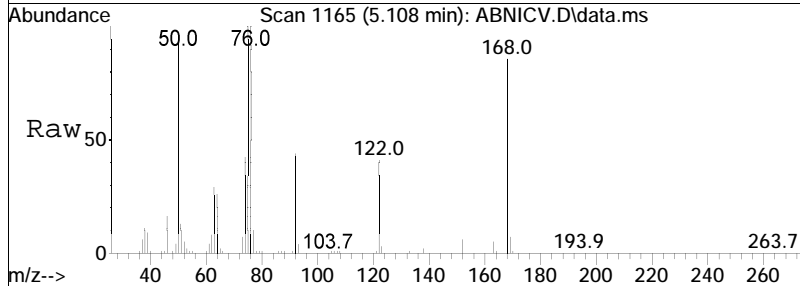
Tgt Ion: 168 Resp: 64951
 Ion Ratio Lower Upper
 168 100
 75 127.4 120.1 180.1

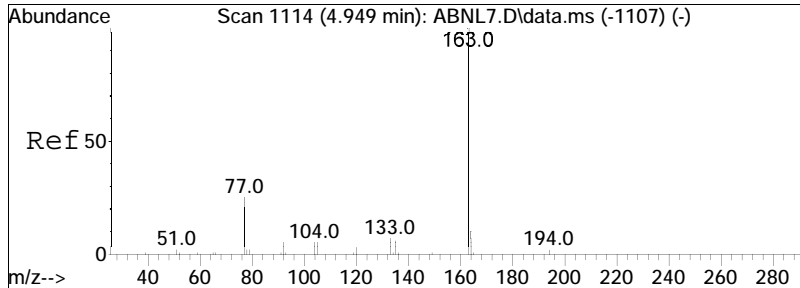




#50
 1,3-Dinitrobenzene
 Concen: 52.82 ug/ml
 RT: 5.108 min Scan# 1165
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

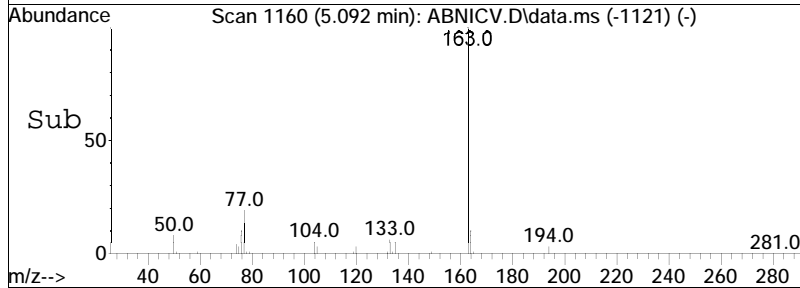
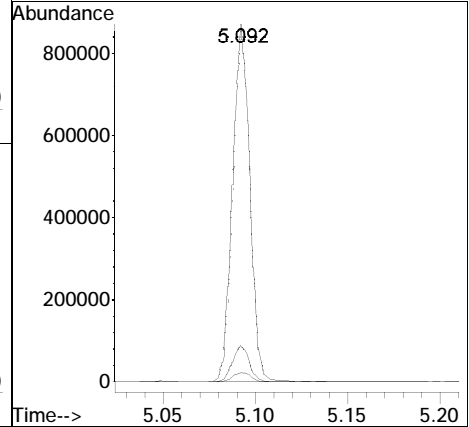
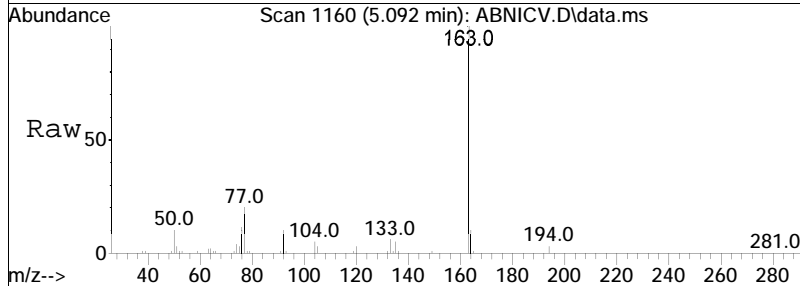
Tgt Ion: 168 Resp: 74983
 Ion Ratio Lower Upper
 168 100
 75 145.1 123.2 184.8

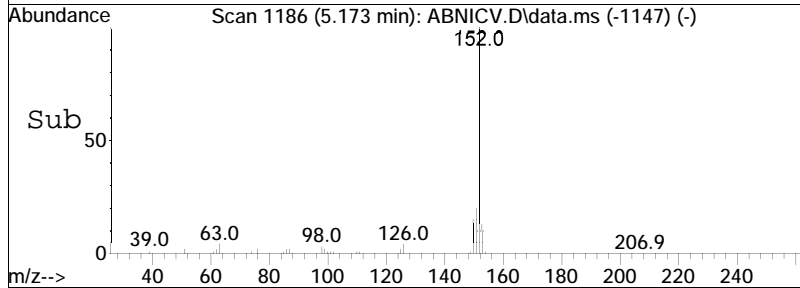
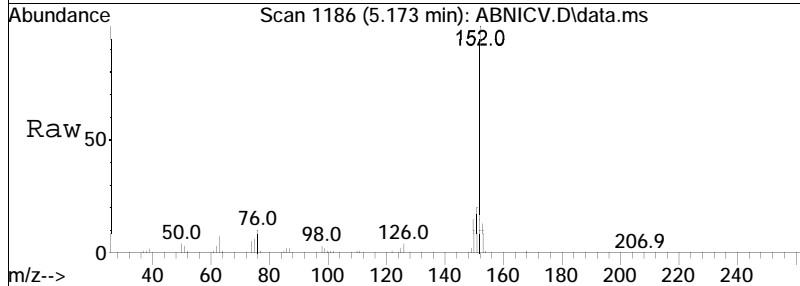
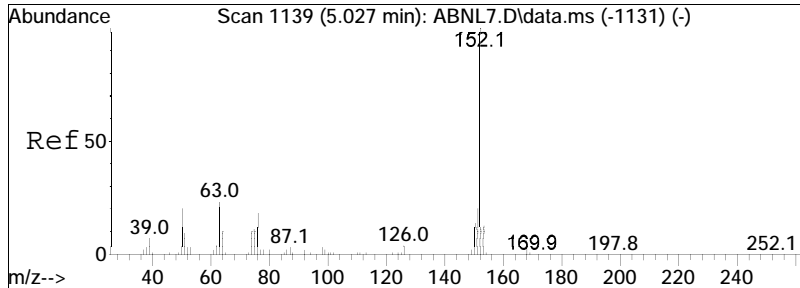




#51
 Dimethyl phthalate
 Concen: 52.14 ug/ml
 RT: 5.092 min Scan# 1160
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

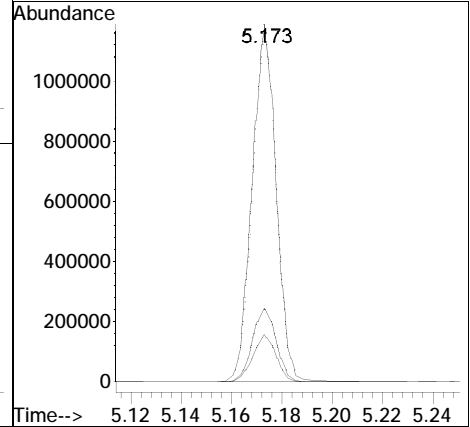
Tgt Ion	Resp	Lower	Upper
163	100		
194	2.9	2.6	4.0
164	10.1	8.2	12.4

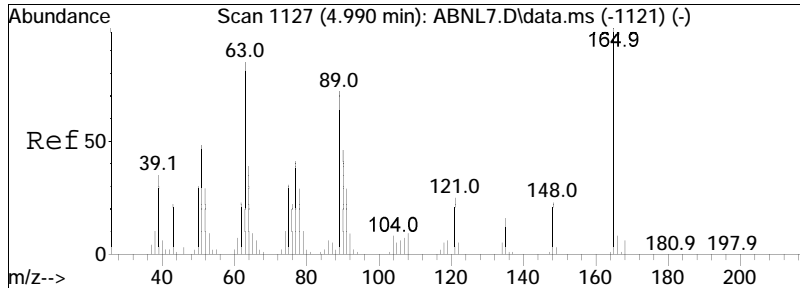




#52
 Acenaphthylene
 Concen: 54.79 ug/ml
 RT: 5.173 min Scan# 1186
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

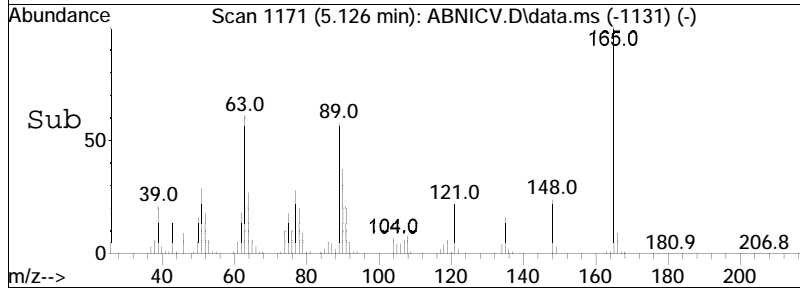
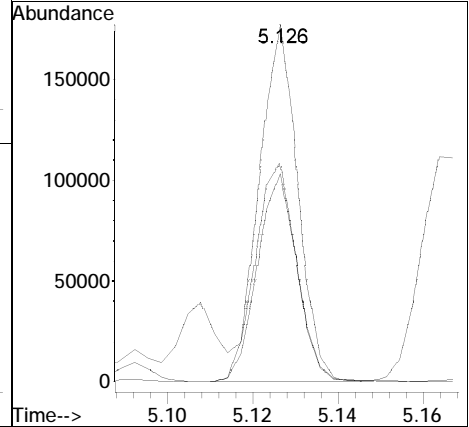
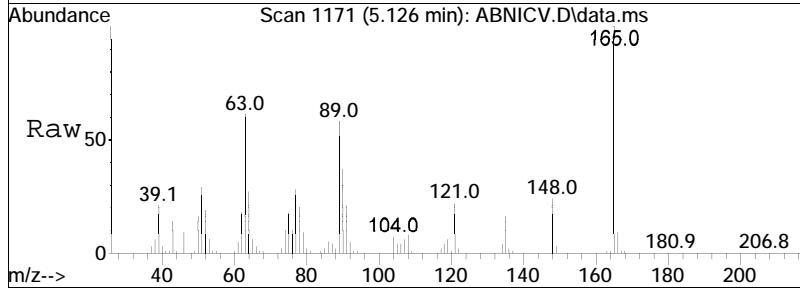
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.4	24.6
153	13.0	11.0	16.6

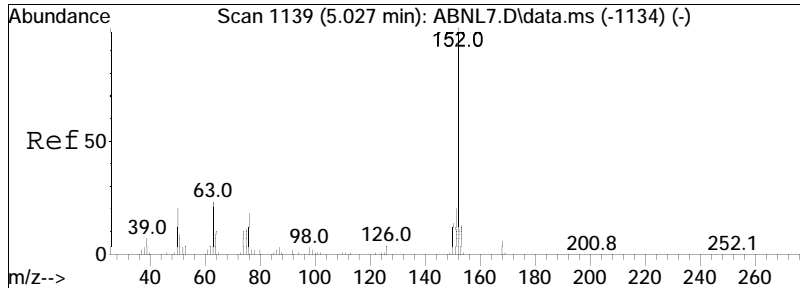




#53
 2,6-Dinitrotoluene
 Concen: 52.94 ug/ml
 RT: 5.126 min Scan# 1171
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

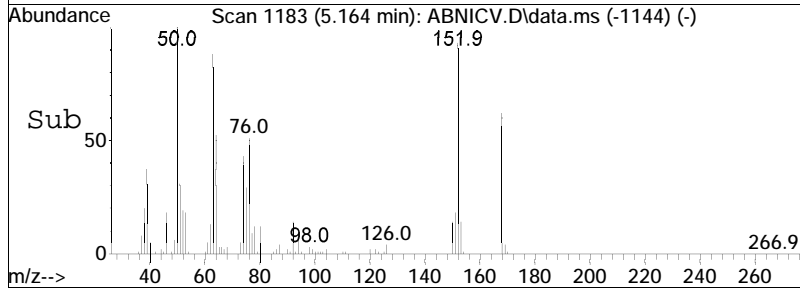
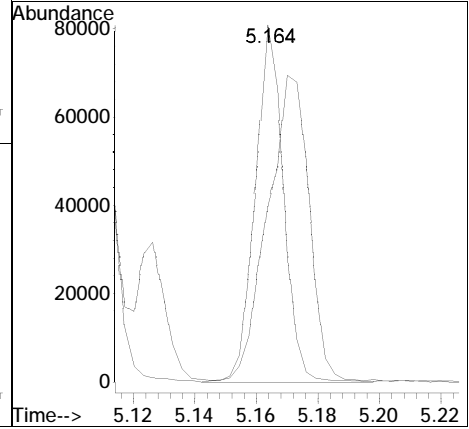
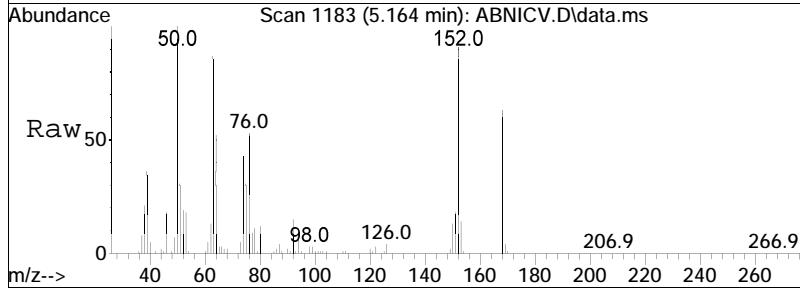
Tgt Ion	Ratio	Lower	Upper
165	100		
89	60.0	50.4	75.6
63	65.1	56.9	85.3

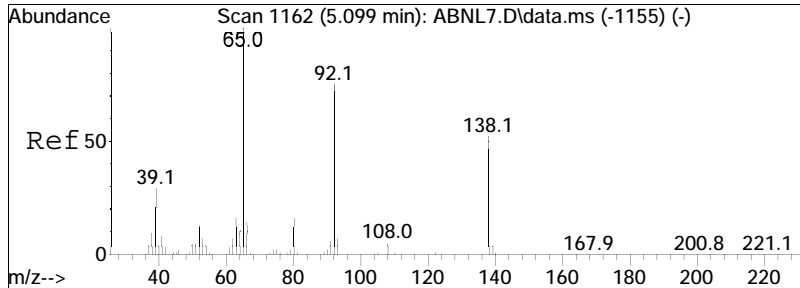




#54
 1,2-Dinitrobenzene
 Concen: 54.11 ug/ml
 RT: 5.164 min Scan# 1183
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

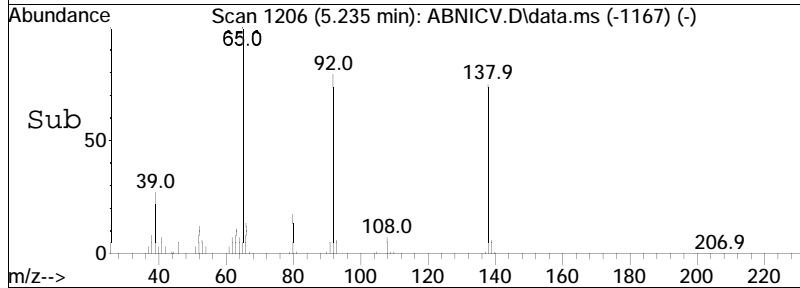
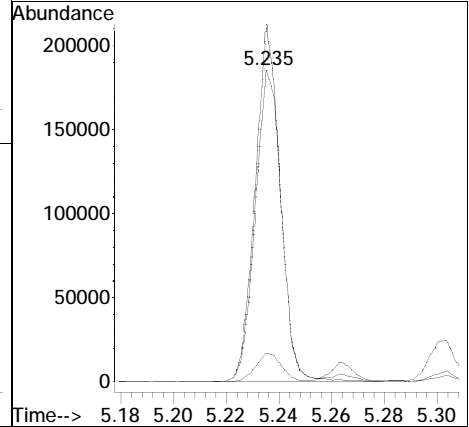
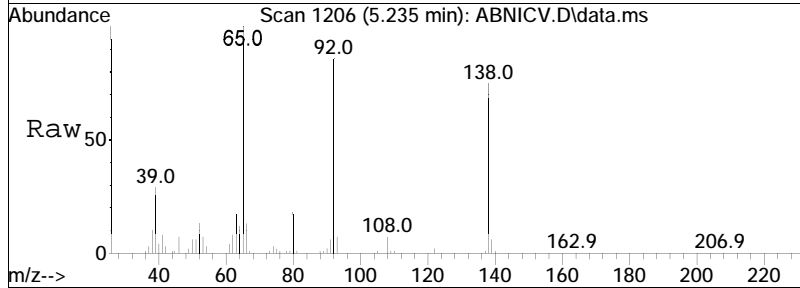
Tgt Ion	Ratio	Lower	Upper
168	100		
75	124.4	105.0	157.6

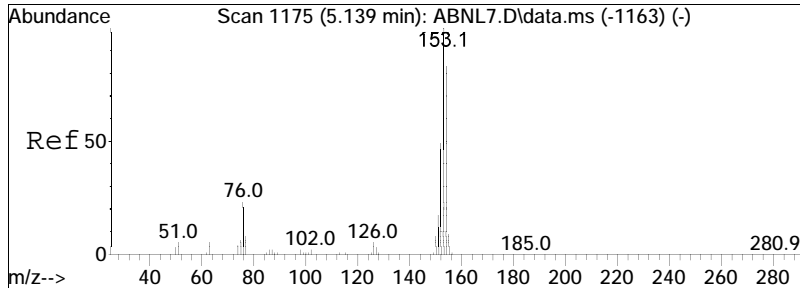




#64
 3-Nitroaniline
 Concen: 52.56 ug/ml
 RT: 5.235 min Scan# 1206
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

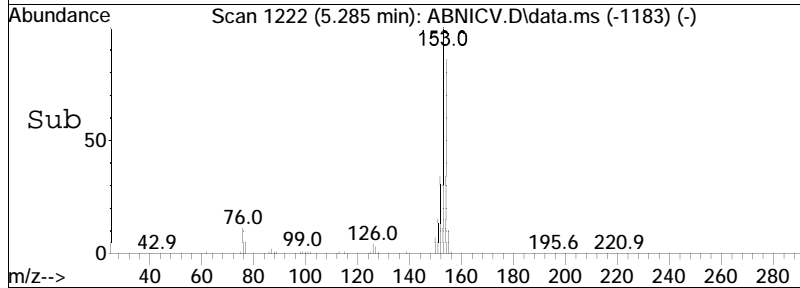
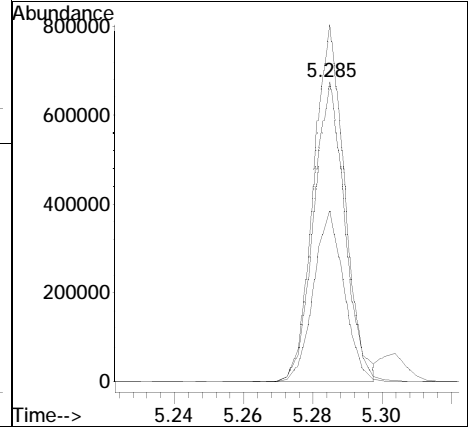
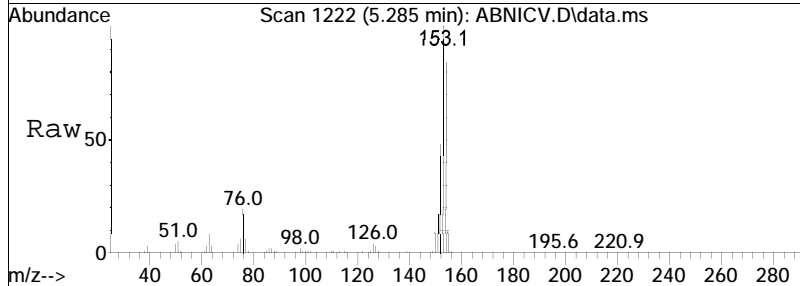
Tgt Ion	Ratio	Lower	Upper
138	100		
92	107.5	95.4	143.2
108	9.3	8.6	12.8

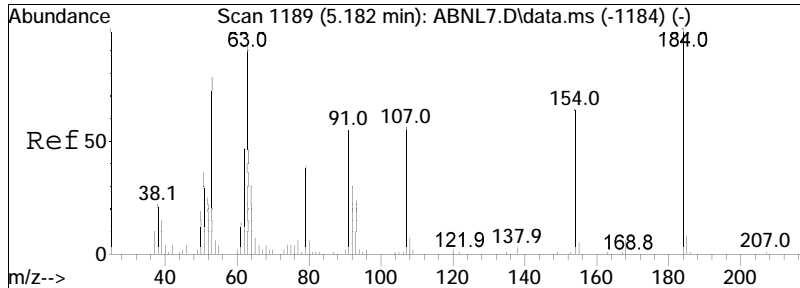




#65
 Acenaphthene
 Concen: 47.40 ug/ml
 RT: 5.285 min Scan# 1222
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

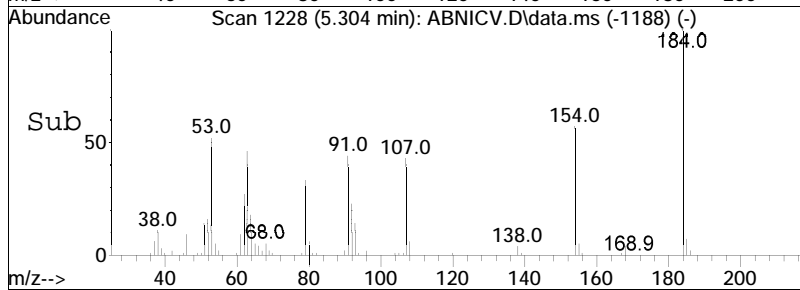
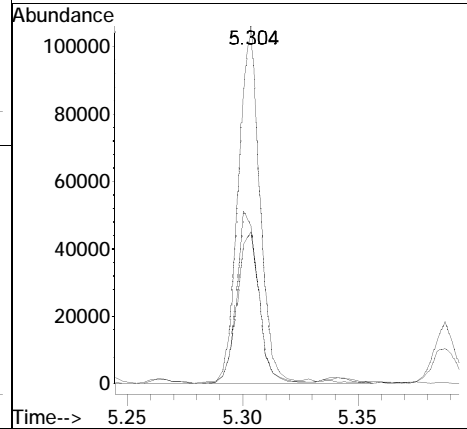
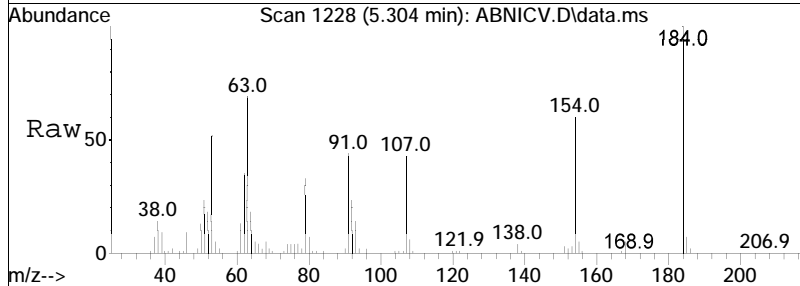
Tgt Ion	Resp	Lower	Upper
154	423995		
153	117.0	91.3	136.9
152	56.2	41.0	61.4

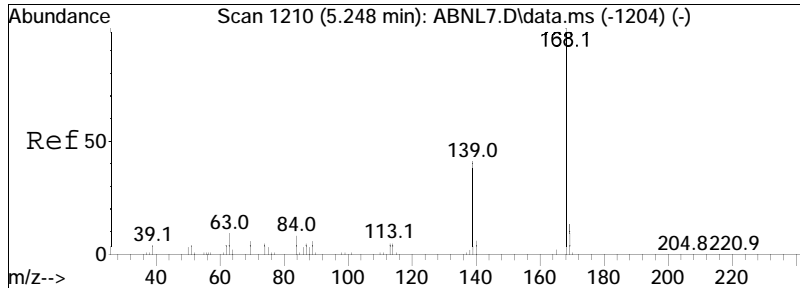




#66
 2,4-Dinitrophenol
 Concen: 43.14 ug/ml
 RT: 5.304 min Scan# 1228
 Delta R.T. 0.001 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

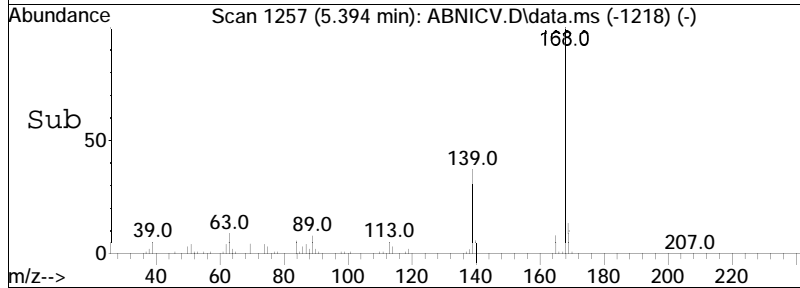
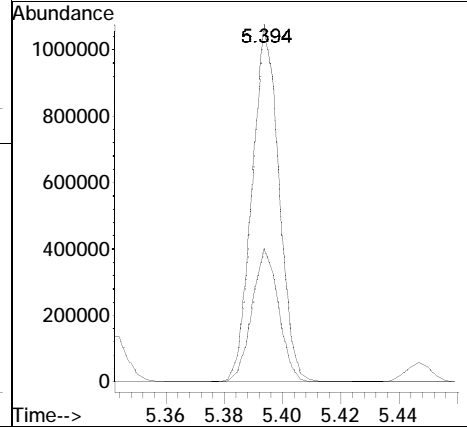
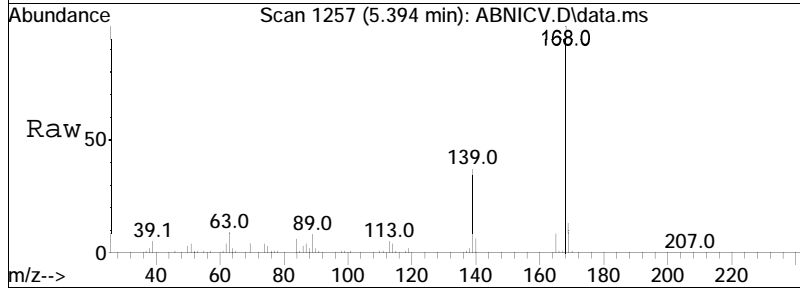
Tgt Ion	Ratio	Lower	Upper
184	100		
107	43.9	41.8	62.6
91	48.1	46.1	69.1

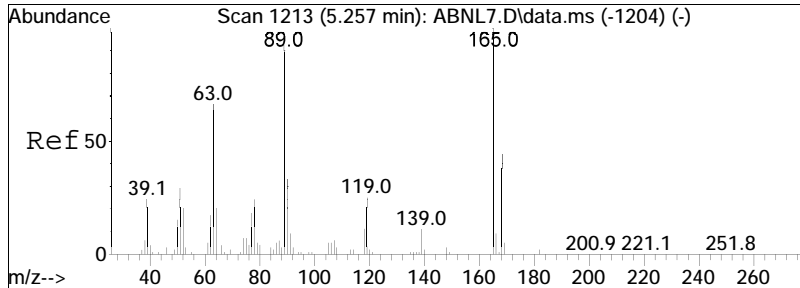




#67
 Dibenzofuran
 Concen: 49.06 ug/ml
 RT: 5.394 min Scan# 1257
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

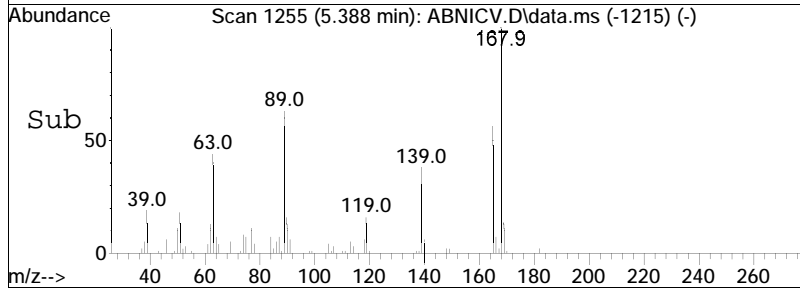
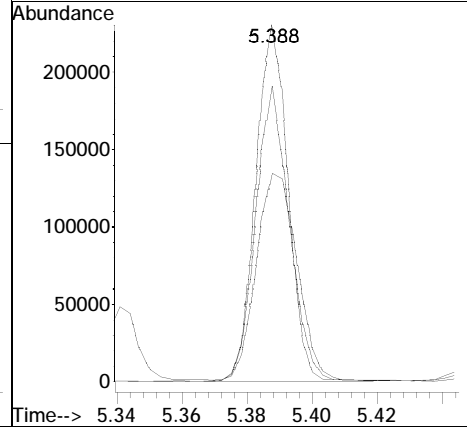
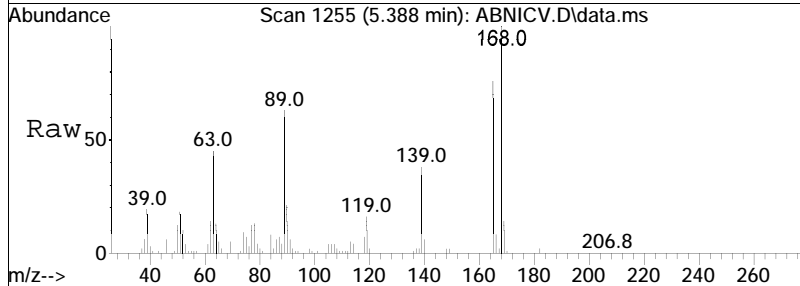
Tgt Ion	Resp	Lower	Upper
168	682990		
168	100		
139	37.2	33.2	49.8

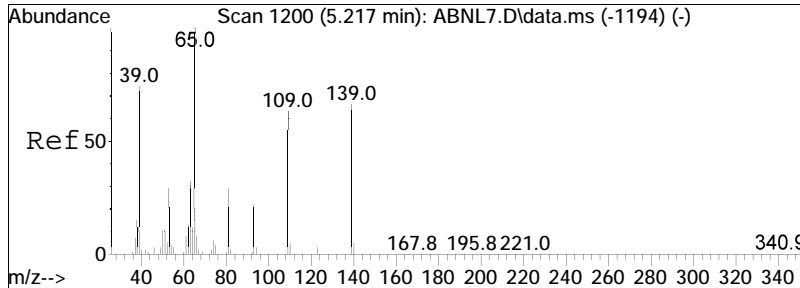




#68
 2,4-Dinitrotoluene
 Concen: 49.32 ug/ml
 RT: 5.388 min Scan# 1255
 Delta R.T. 0.001 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

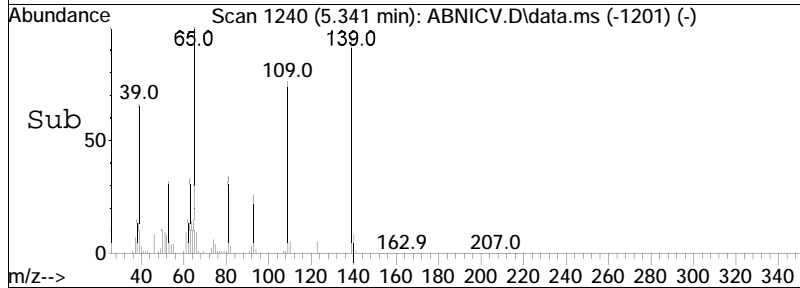
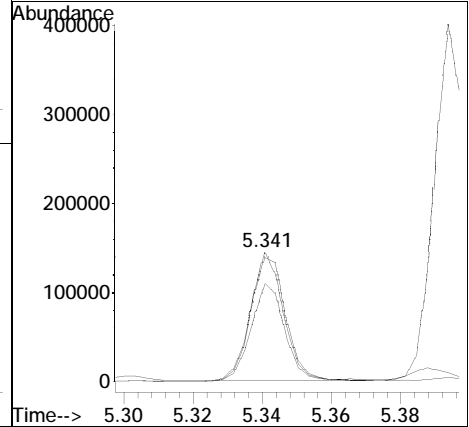
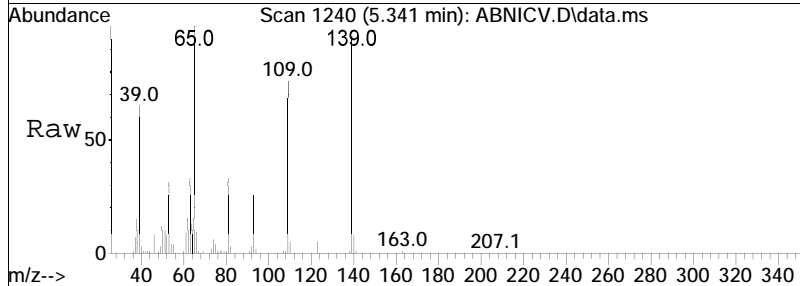
Tgt Ion	Resp	Lower	Upper
165	100		
89	86.7	75.7	113.5
63	73.0	62.6	94.0

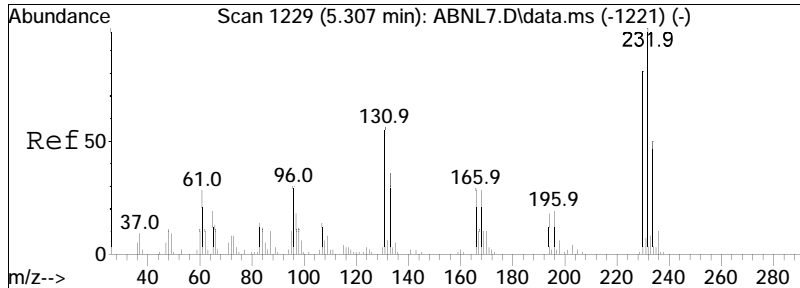




#69
 4-Nitrophenol
 Concen: 46.30 ug/ml
 RT: 5.341 min Scan# 1240
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

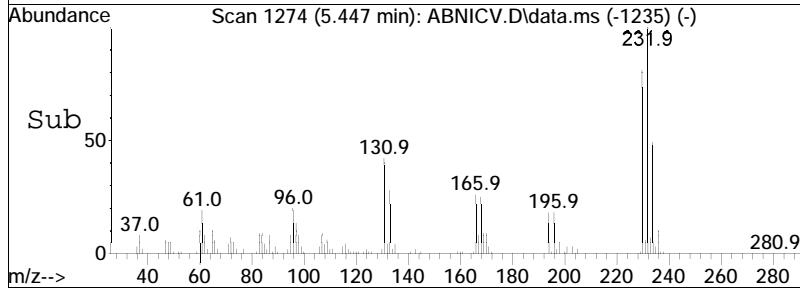
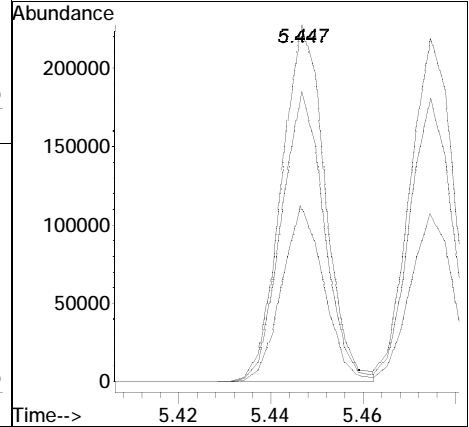
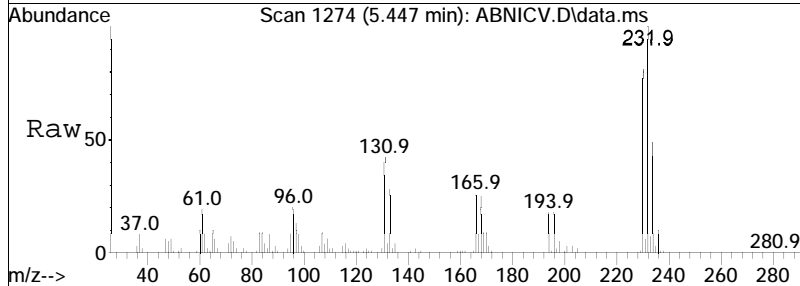
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
65	100		
109	78.0	55.4	83.2
139	102.7	72.9	109.3

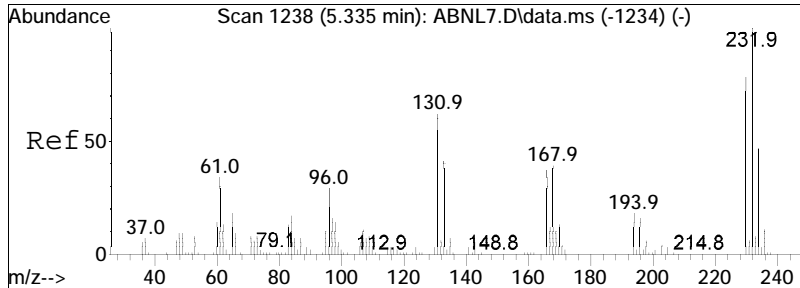




#70
 2,3,5,6-Tetrachlorophenol
 Concen: 54.89 ug/ml
 RT: 5.447 min Scan# 1274
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

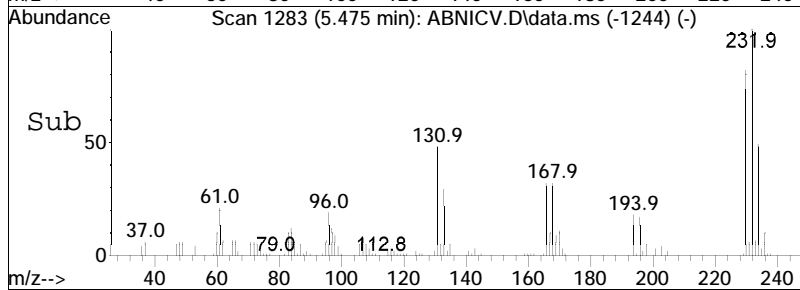
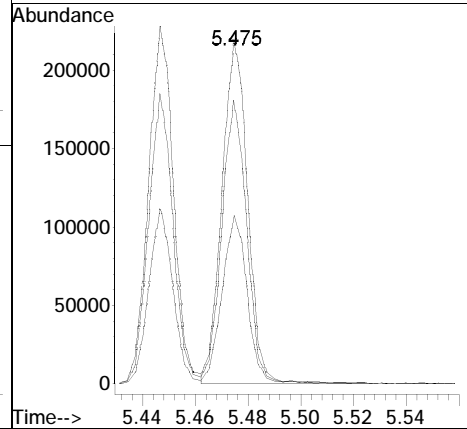
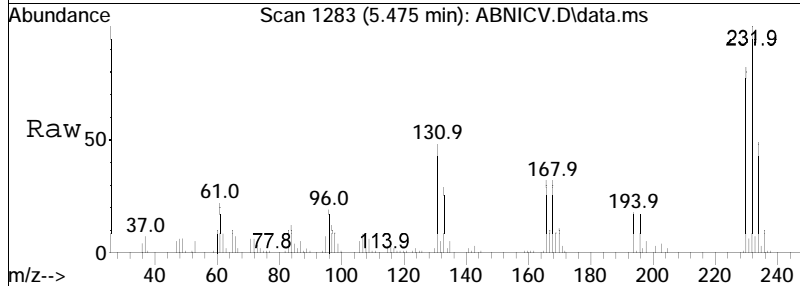
Tgt Ion	Ratio	Lower	Upper
232	100		
230	79.5	65.0	97.6
234	47.4	37.8	56.8

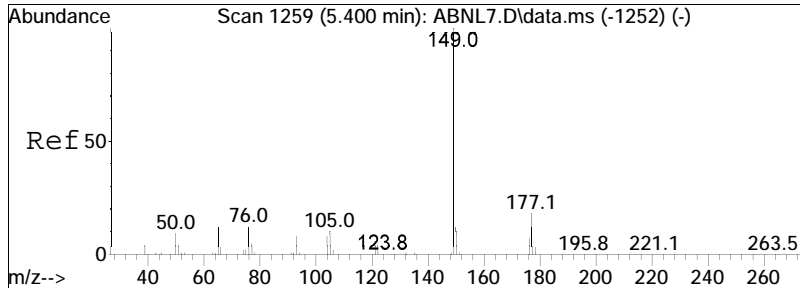




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 52.81 ug/ml
 RT: 5.475 min Scan# 1283
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

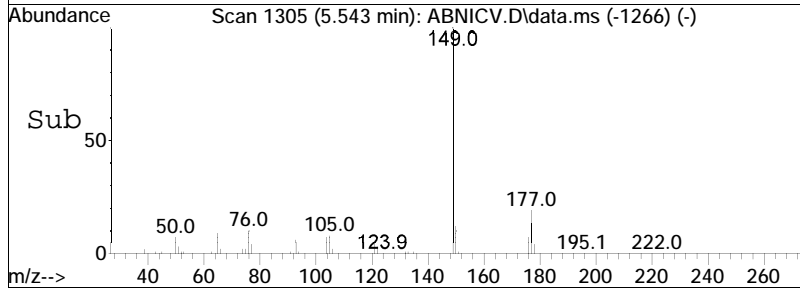
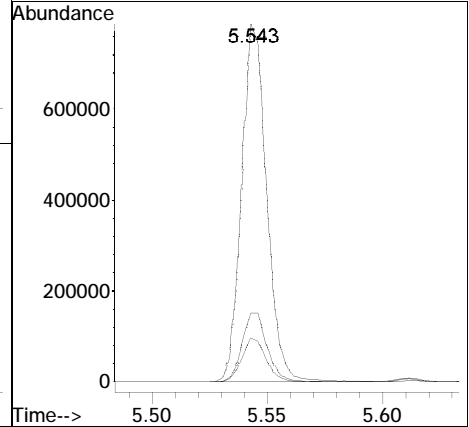
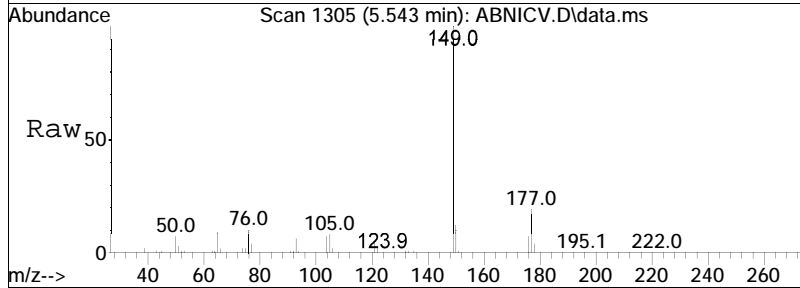
Tgt Ion	Resp	Lower	Upper
232	149267		
232	100		
230	80.1	63.7	95.5
234	48.0	38.4	57.6

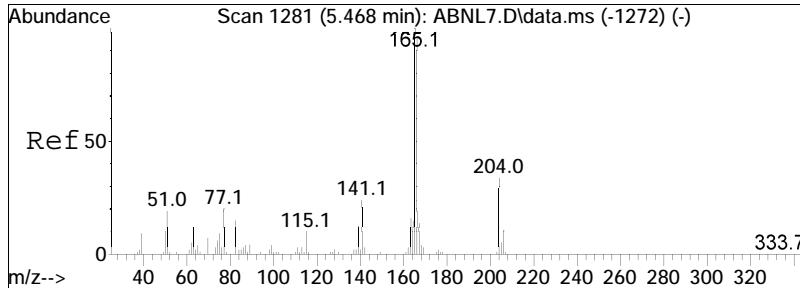




#72
 Diethyl phthalate
 Concen: 52.00 ug/ml
 RT: 5.543 min Scan# 1305
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

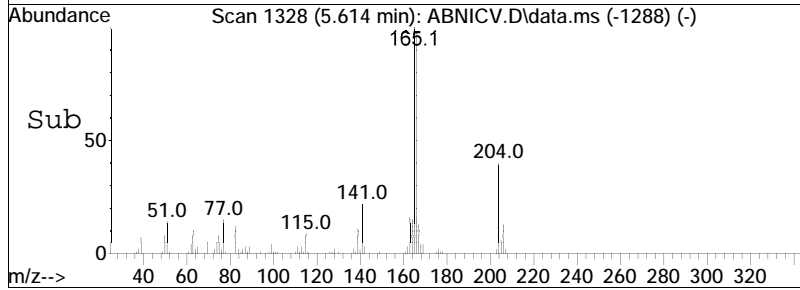
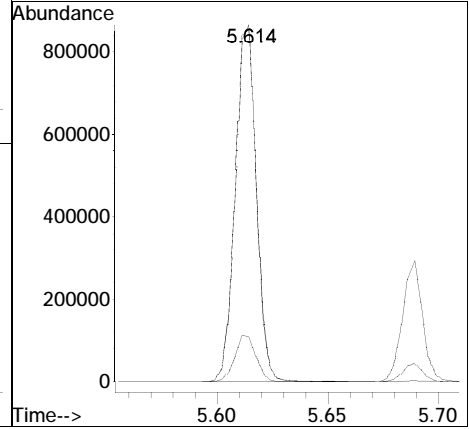
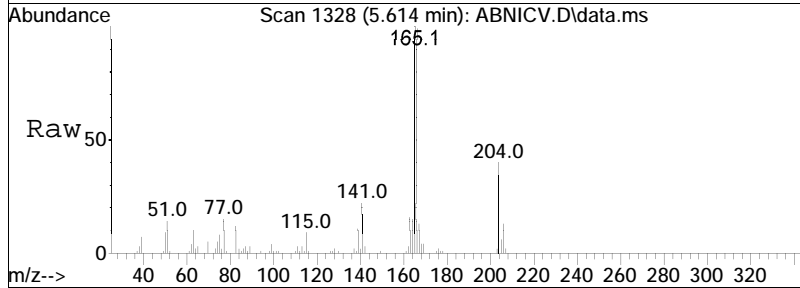
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.5	15.5	23.3
150	12.1	9.5	14.3

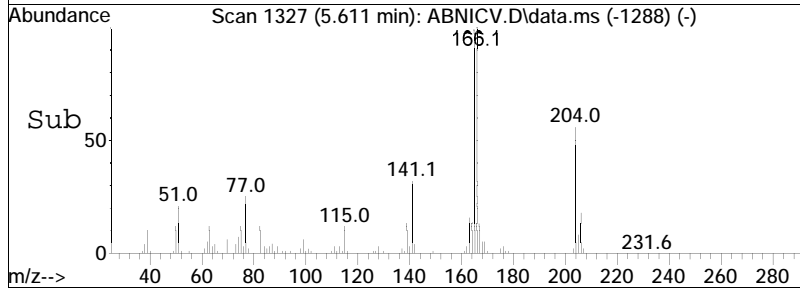
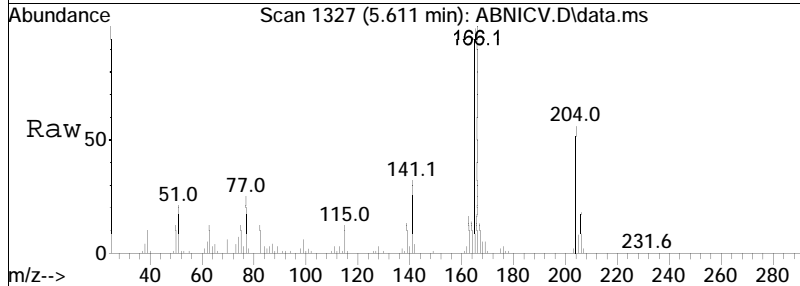
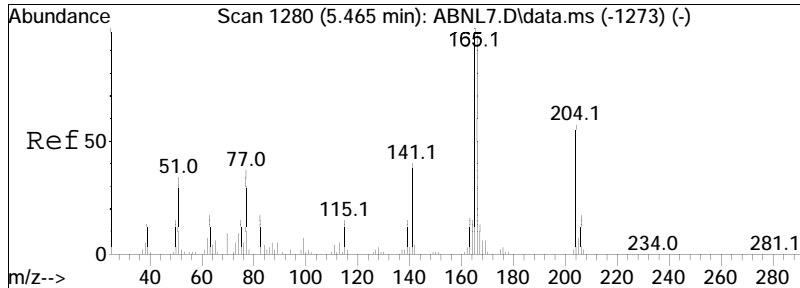




#73
 Fluorene
 Concen: 49.78 ug/ml
 RT: 5.614 min Scan# 1328
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

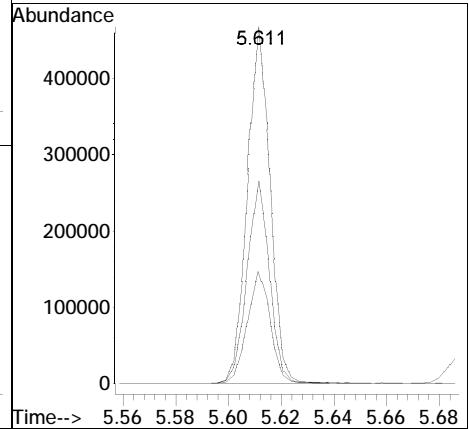
Tgt Ion	Resp	Lower	Upper
166	100		
165	98.7	79.3	118.9
167	13.1	10.6	16.0

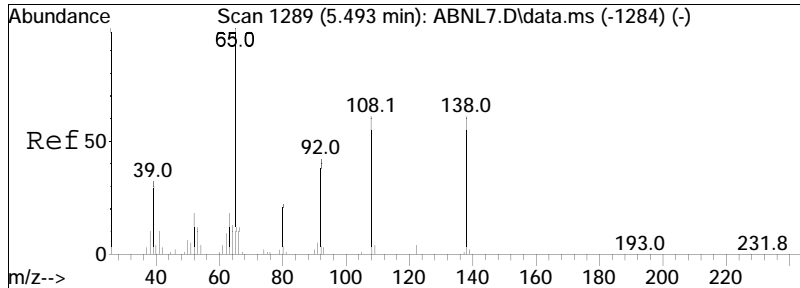




#74
 4-Chlorophenyl phenyl ether
 Concen: 50.37 ug/ml
 RT: 5.611 min Scan# 1327
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

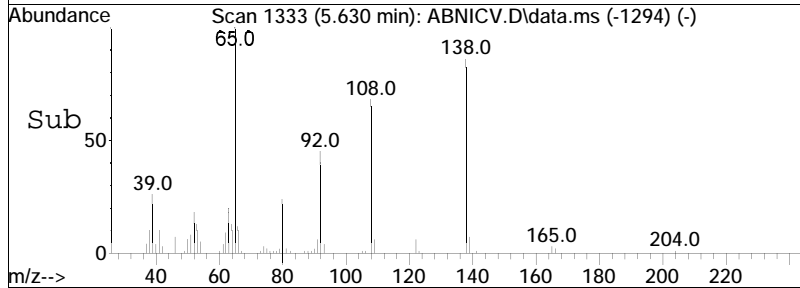
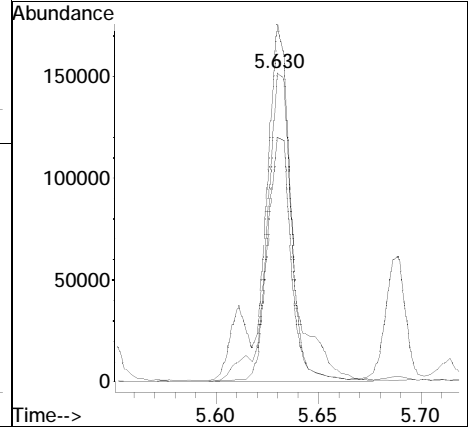
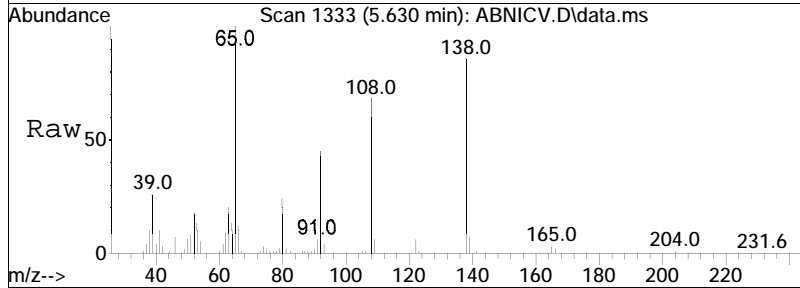
Tgt Ion	Ratio	Lower	Upper
204	100		
206	31.9	26.2	39.4
141	56.3	57.2	85.8#

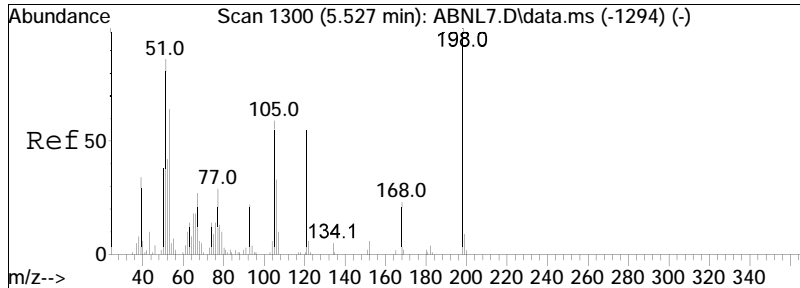




#75
 4-Nitroaniline
 Concen: 47.51 ug/ml
 RT: 5.630 min Scan# 1333
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

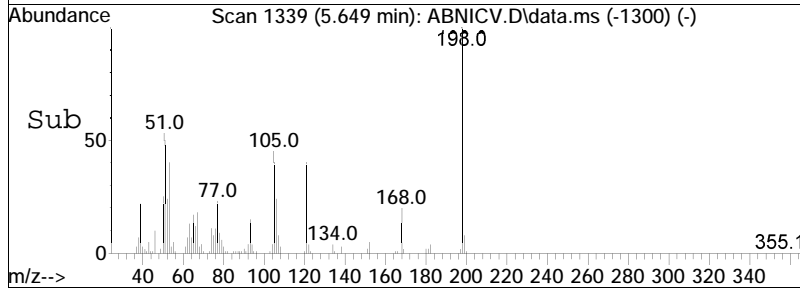
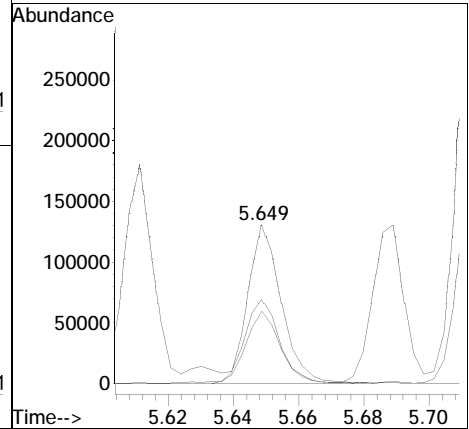
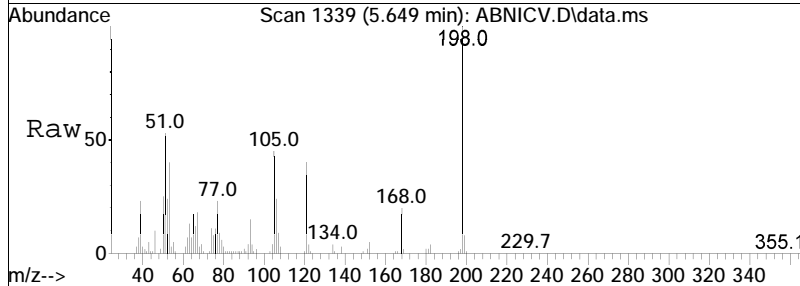
Tgt Ion	Resp	Lower	Upper
138	100		
108	76.5	62.7	94.1
65	116.7	107.8	161.6

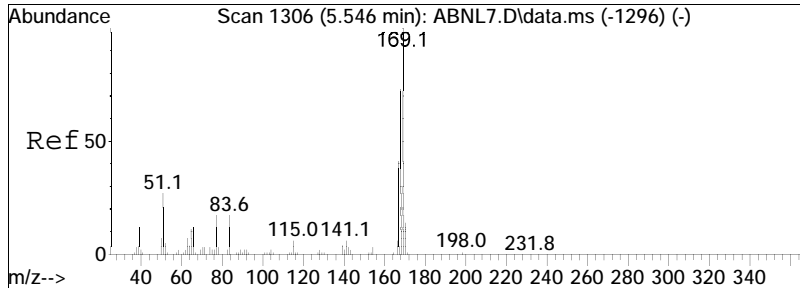




#76
 4,6-Dinitro-o-cresol
 Concen: 53.67 ug/ml
 RT: 5.649 min Scan# 1339
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

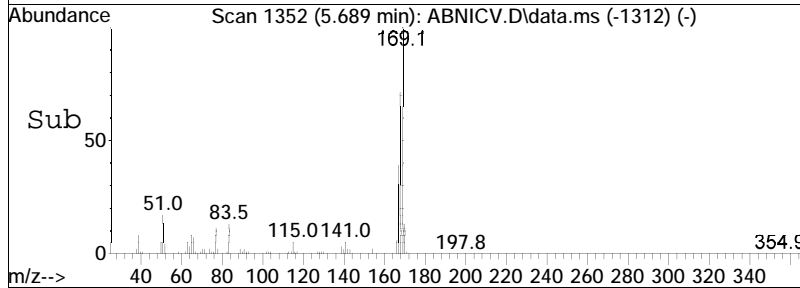
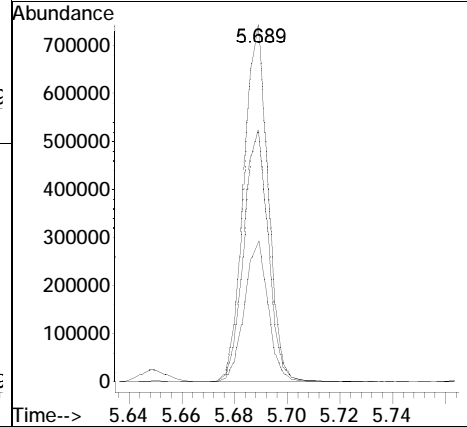
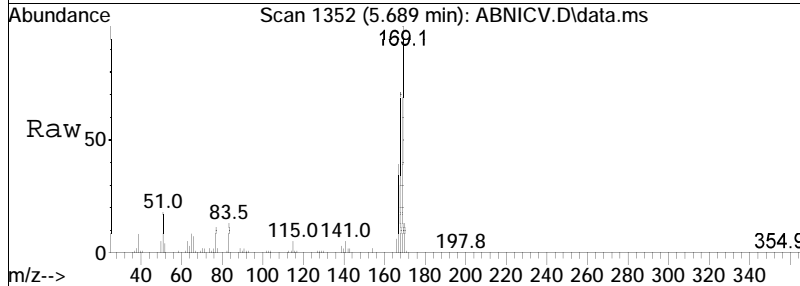
Tgt Ion	Ratio	Lower	Upper
198	100		
51	53.5	59.0	88.4#
105	46.8	45.0	67.6

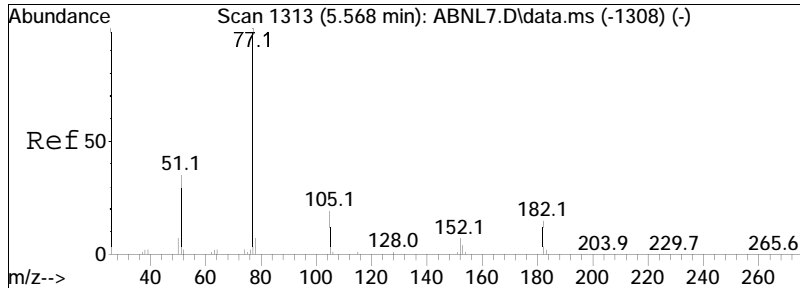




#77
 NDPA/DPA
 Concen: 52.49 ug/ml
 RT: 5.689 min Scan# 1352
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

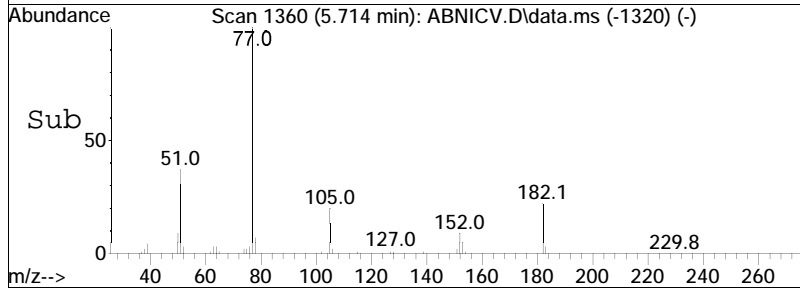
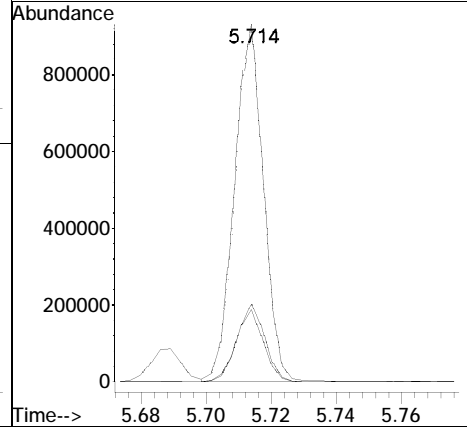
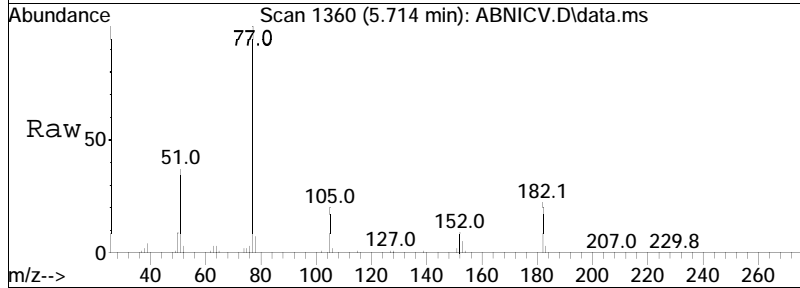
Tgt Ion	Resp	Lower	Upper
169	100		
168	71.5	55.4	83.0
167	39.1	30.3	45.5

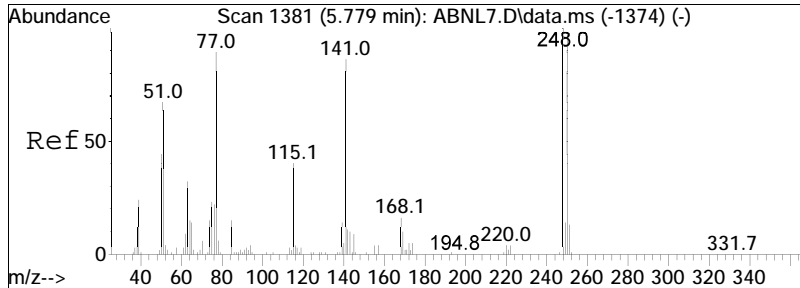




#78
 Azobenzene
 Concen: 51.20 ug/ml
 RT: 5.714 min Scan# 1360
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

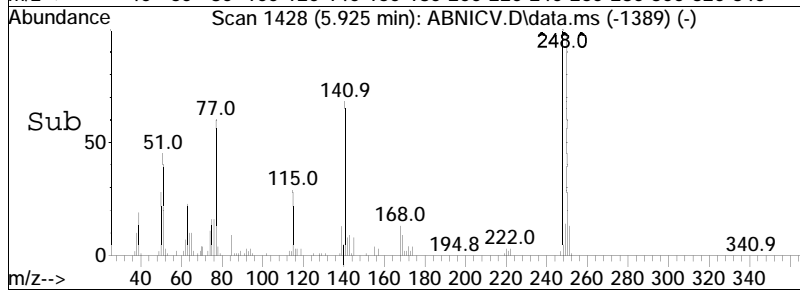
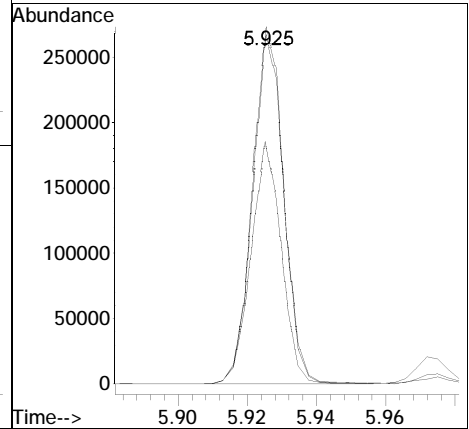
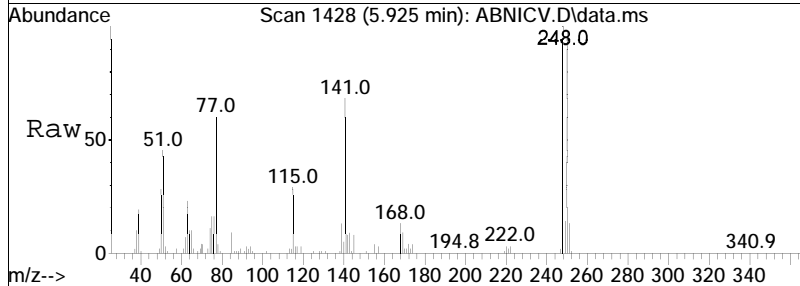
Tgt Ion	Resp	Lower	Upper
77	100		
182	21.3	16.0	24.0
105	19.4	15.6	23.4

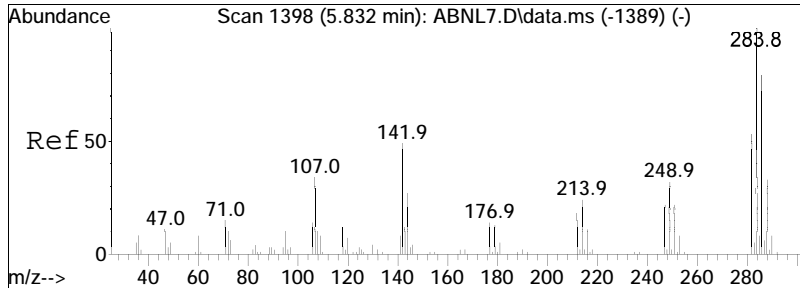




#80
 4-Bromophenyl phenyl ether
 Concen: 51.99 ug/ml
 RT: 5.925 min Scan# 1428
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

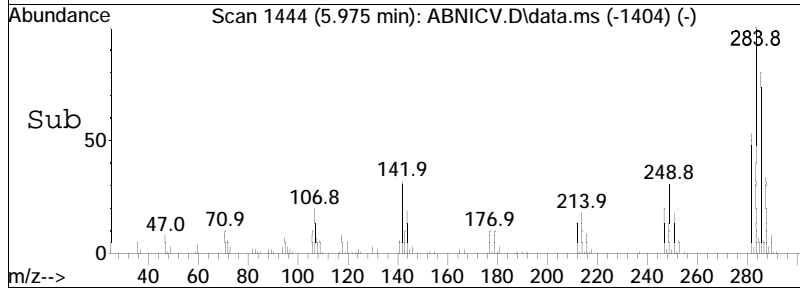
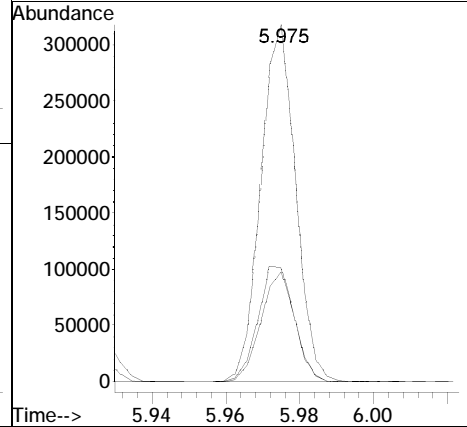
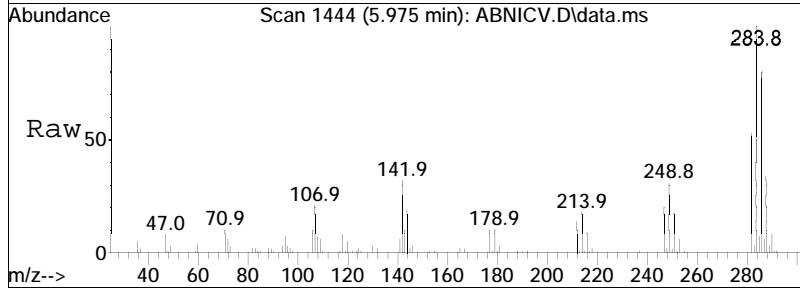
Tgt Ion	Ratio	Lower	Upper
248	100		
141	65.3	76.8	115.2#
250	96.3	79.7	119.5

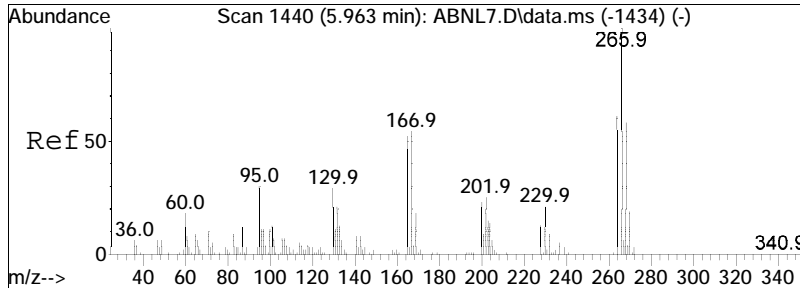




#81
 Hexachlorobenzene
 Concen: 51.08 ug/ml
 RT: 5.975 min Scan# 1444
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

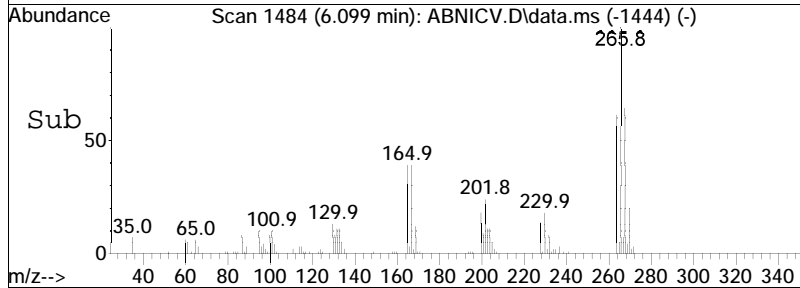
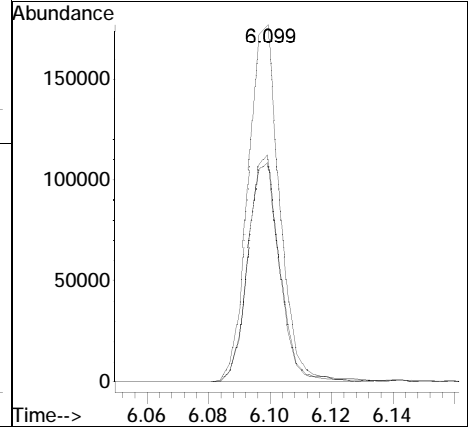
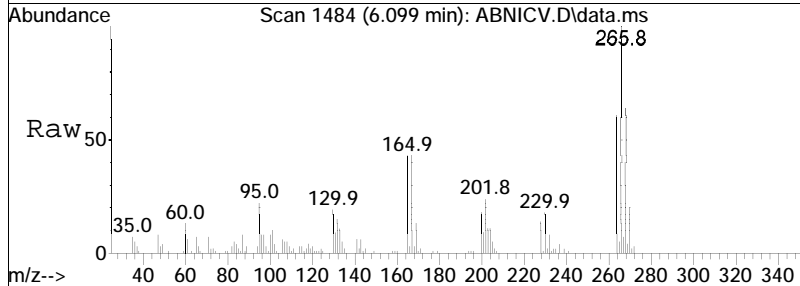
Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.1	35.8	53.6#
249	30.4	24.7	37.1

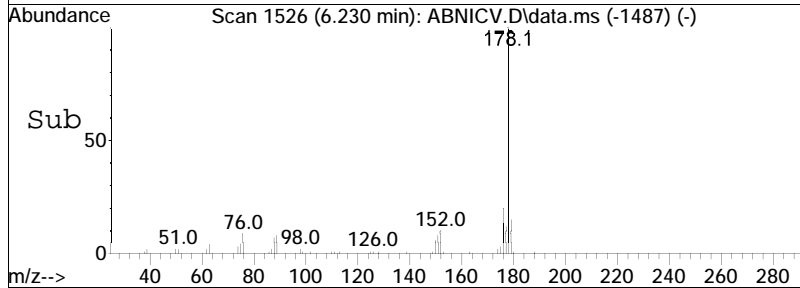
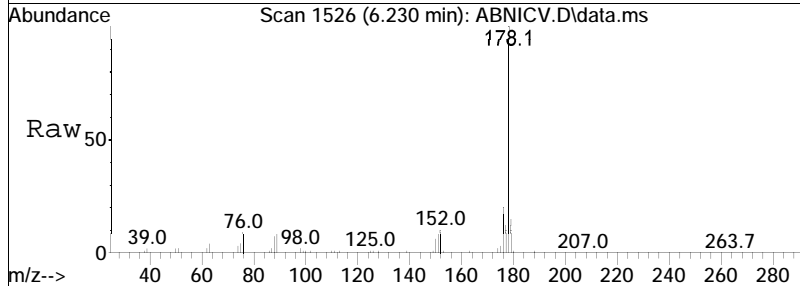
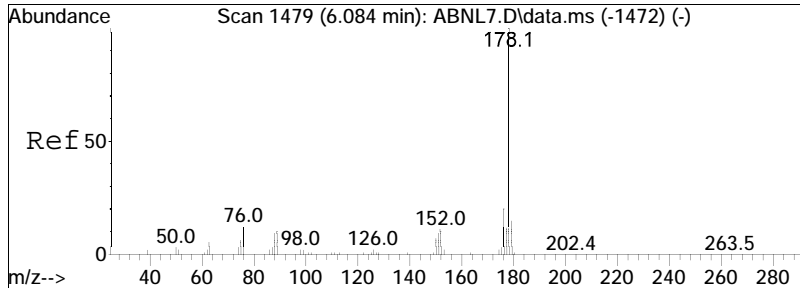




#82
 Pentachlorophenol
 Concen: 49.76 ug/ml
 RT: 6.099 min Scan# 1484
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

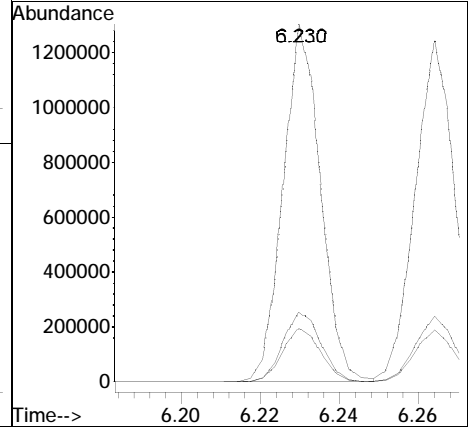
Tgt Ion	Resp	Lower	Upper
266	125997		
266	100		
264	61.7	51.8	77.6
268	63.5	49.8	74.8

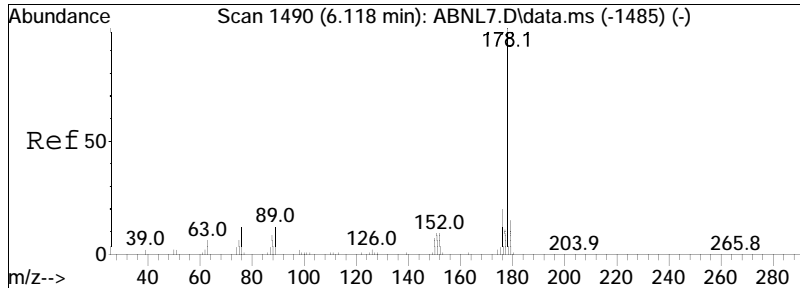




#89
 Phenanthrene
 Concen: 48.42 ug/ml
 RT: 6.230 min Scan# 1526
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

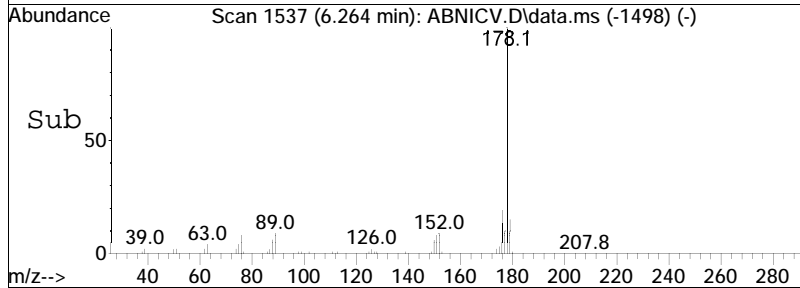
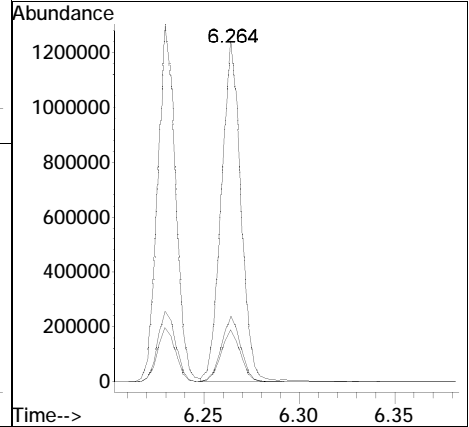
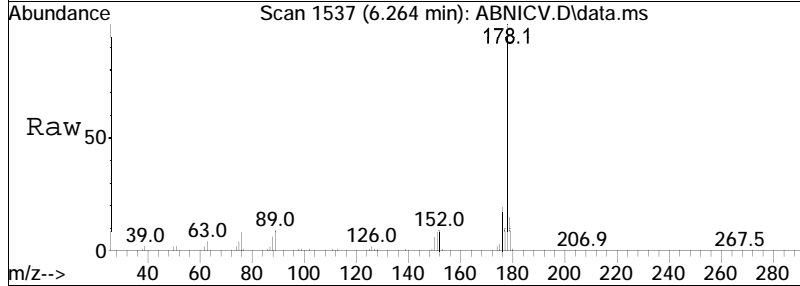
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2
176	19.8	15.4	23.2

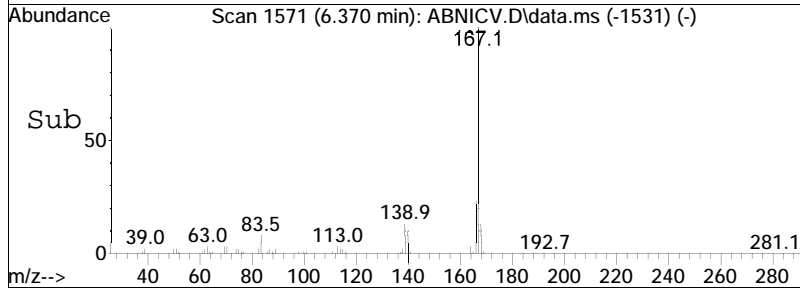
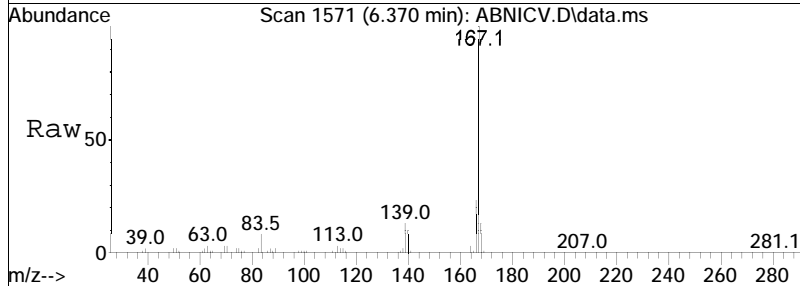
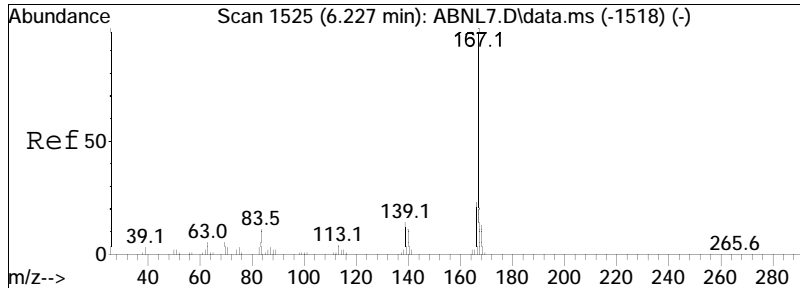




#90
 Anthracene
 Concen: 49.85 ug/ml
 RT: 6.264 min Scan# 1537
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

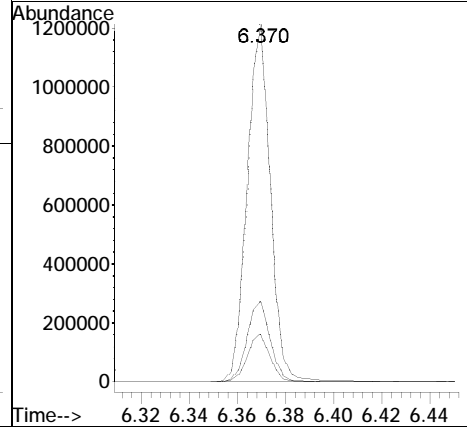
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.1	18.1
176	19.0	14.8	22.2

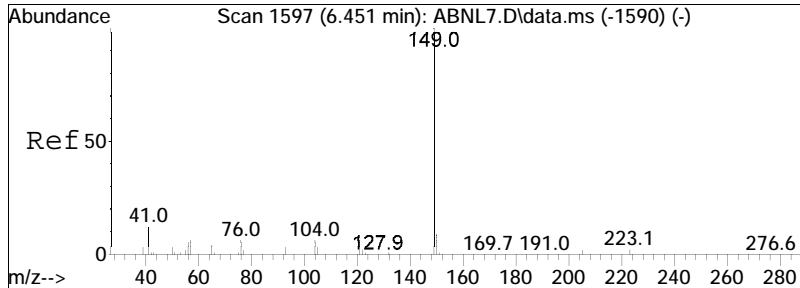




#91
 Carbazole
 Concen: 51.48 ug/ml
 RT: 6.370 min Scan# 1571
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

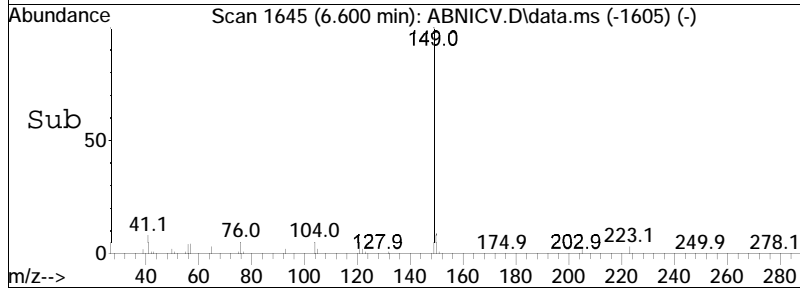
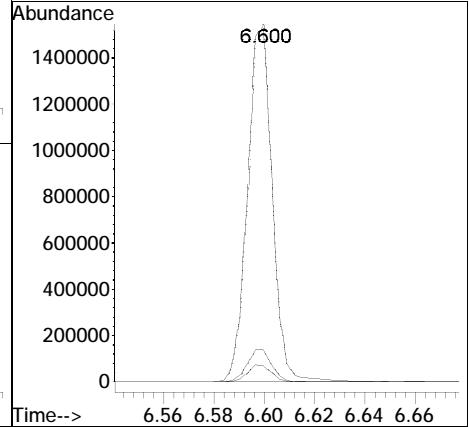
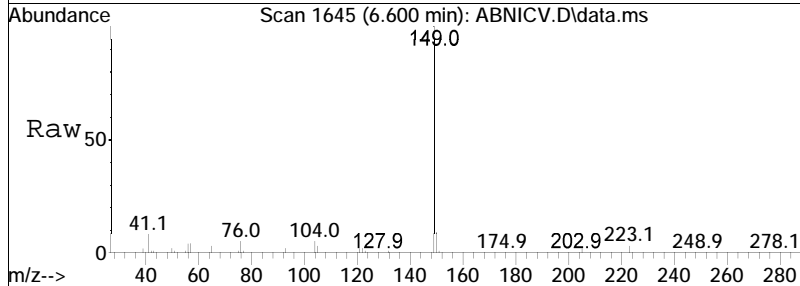
Tgt Ion	Resp	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	22.9	17.7	26.5

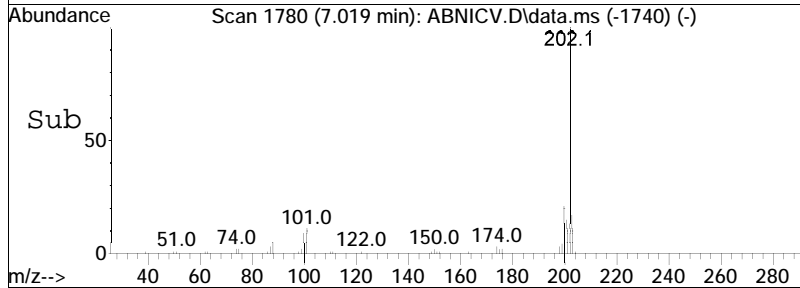
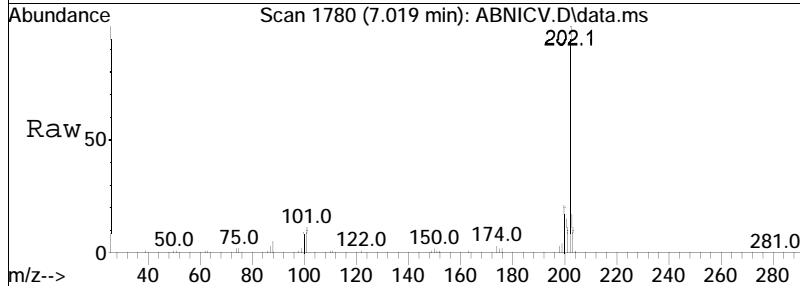
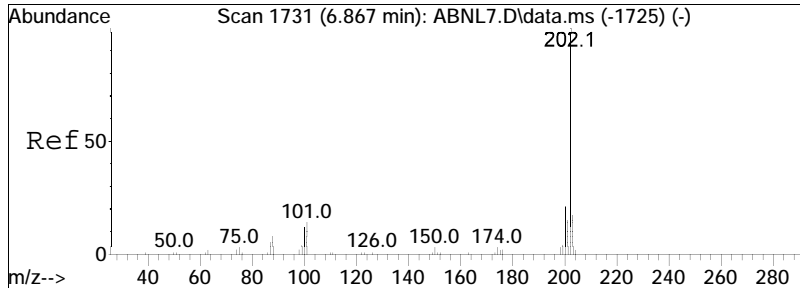




#92
 Di-n-butylphthalate
 Concen: 52.97 ug/ml
 RT: 6.600 min Scan# 1645
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

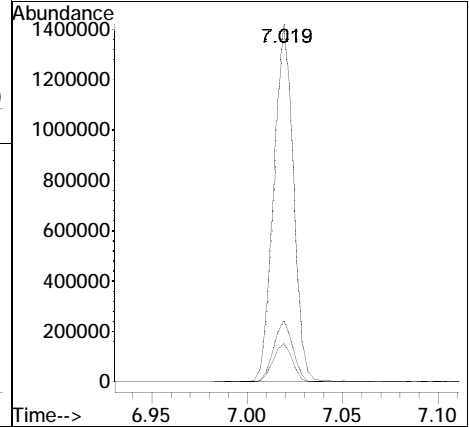
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.4	11.0
104	4.8	4.2	6.2

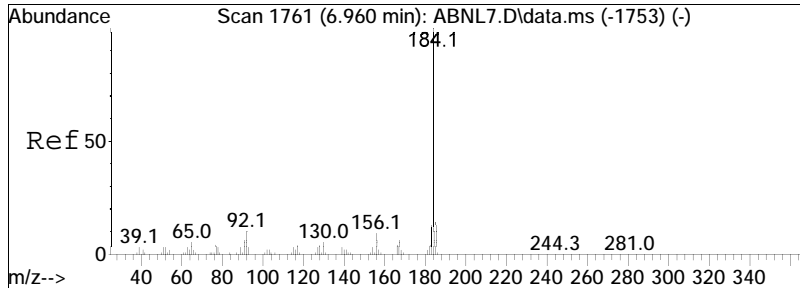




#93
 Fluoranthene
 Concen: 49.77 ug/ml
 RT: 7.019 min Scan# 1780
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

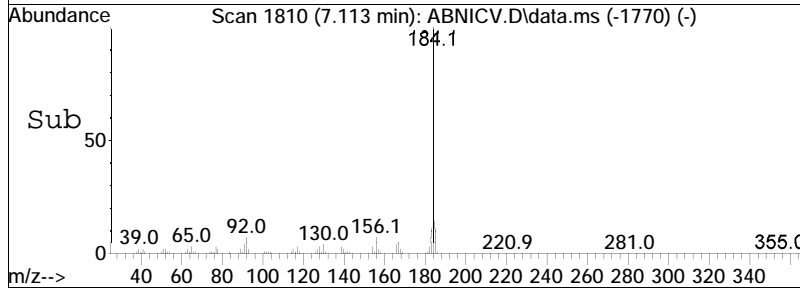
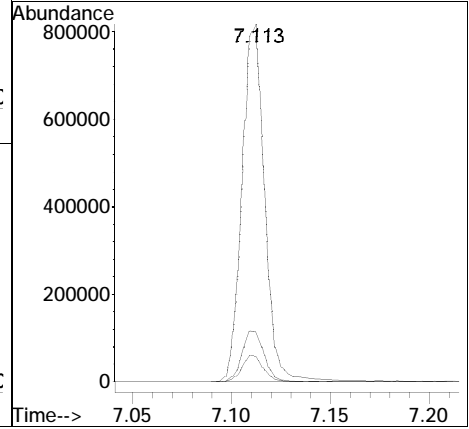
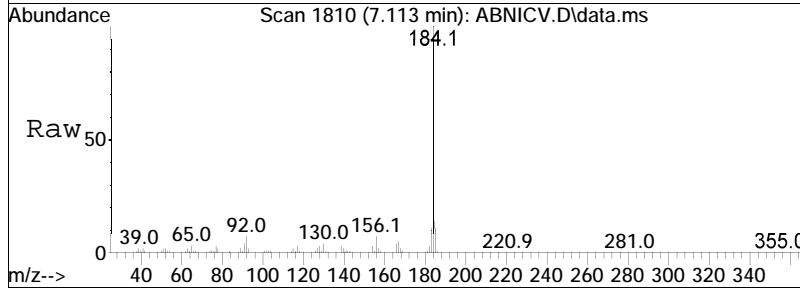
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.7	11.4	17.0#
203	16.8	13.9	20.9

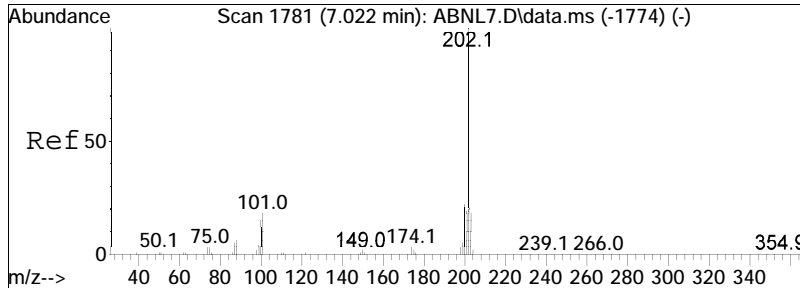




#94
 Benzidine
 Concen: 54.09 ug/ml
 RT: 7.113 min Scan# 1810
 Delta R.T. 0.001 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

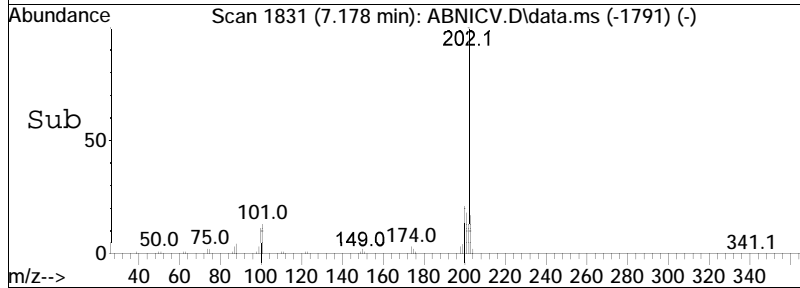
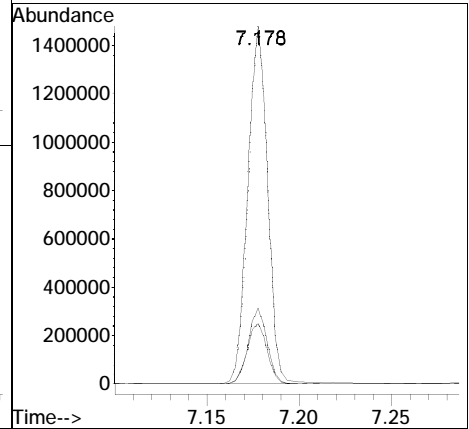
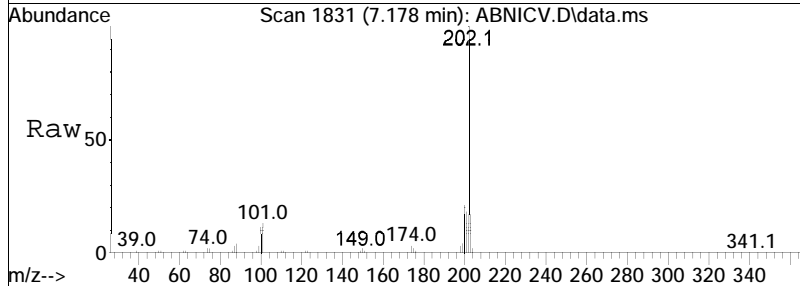
Tgt Ion	Ratio	Lower	Upper
184	100		
92	7.1	7.6	11.4#
185	14.0	11.5	17.3

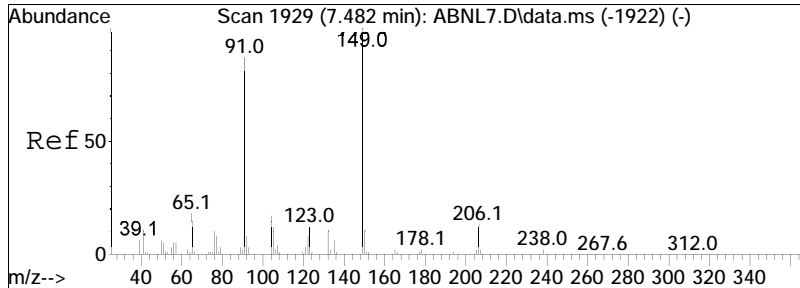




#95
 Pyrene
 Concen: 51.26 ug/ml
 RT: 7.178 min Scan# 1831
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

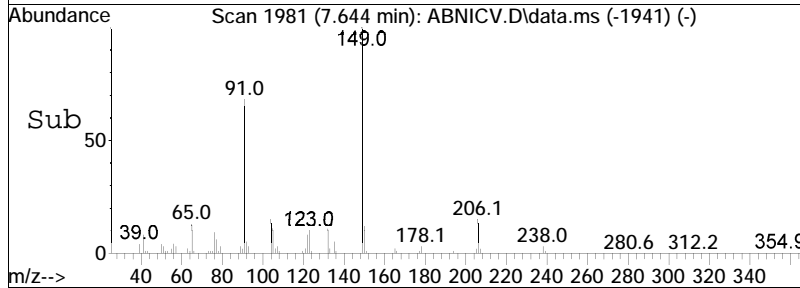
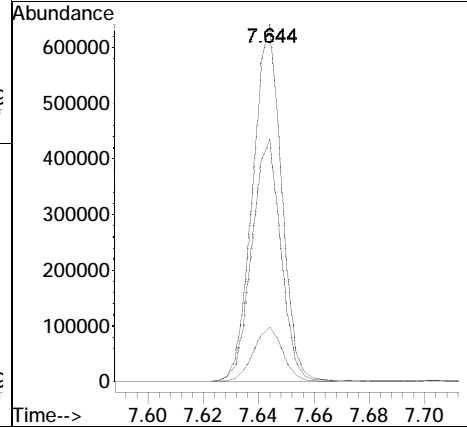
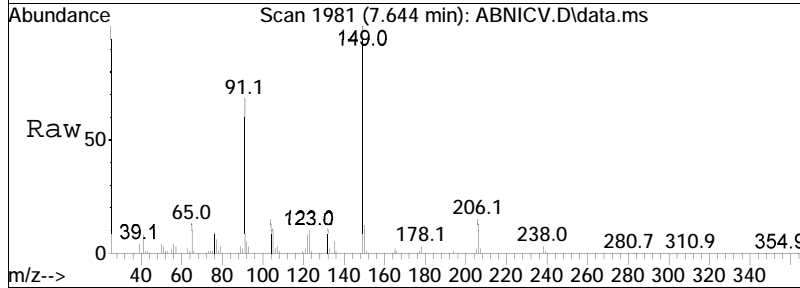
Tgt Ion	Resp	Lower	Upper
202	1088193		
200	20.6	17.0	25.4
203	17.4	14.2	21.2

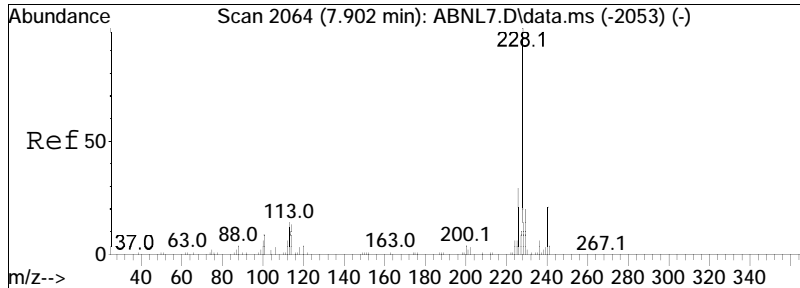




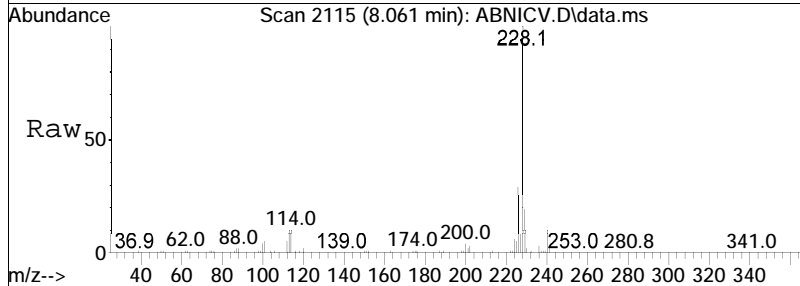
#97
 Butyl benzyl phthalate
 Concen: 51.81 ug/ml
 RT: 7.644 min Scan# 1981
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

Tgt Ion	Resp	Lower	Upper
149	459648		
149	100		
91	68.5	61.2	91.8
206	15.6	12.5	18.7

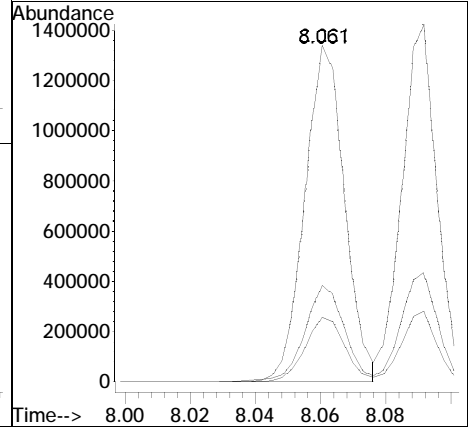
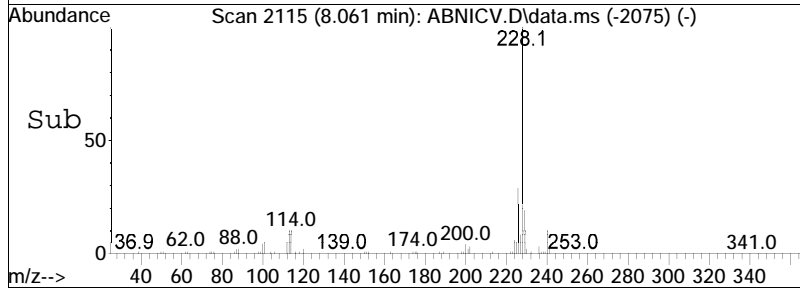


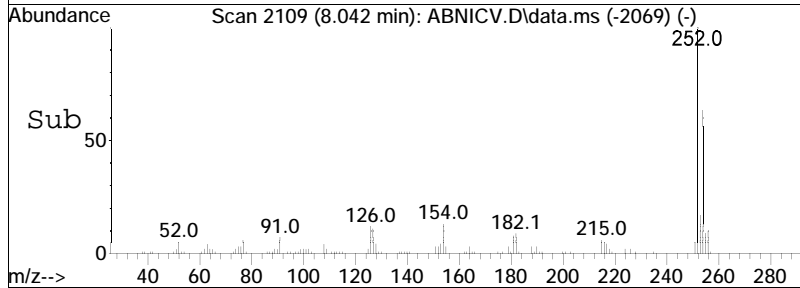
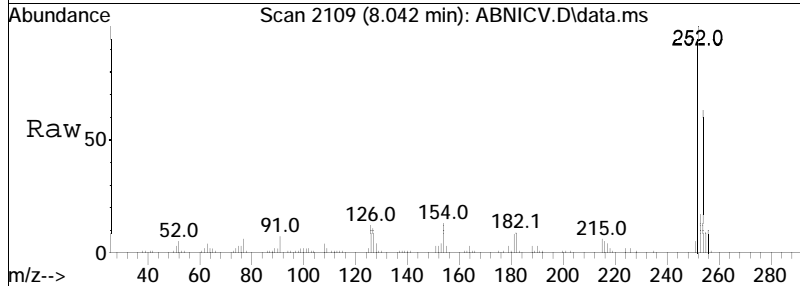
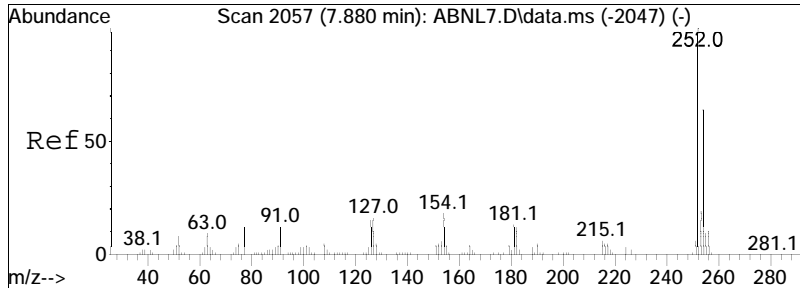


#105
 Benzo(a)anthracene
 Concen: 50.57 ug/ml
 RT: 8.061 min Scan# 2115
 Delta R.T. 0.001 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm



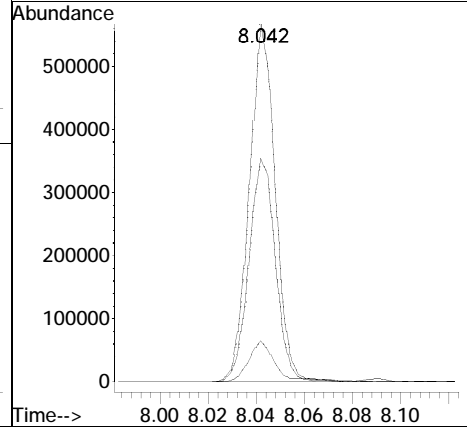
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.2	33.2
229	19.2	15.6	23.4

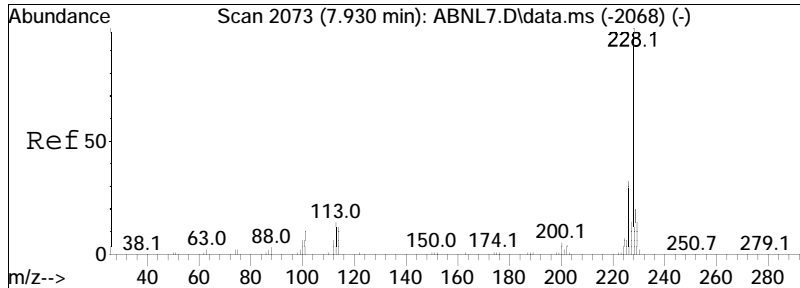




#106
 3,3'-Dichlorobenzidine
 Concen: 53.16 ug/ml
 RT: 8.042 min Scan# 2109
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

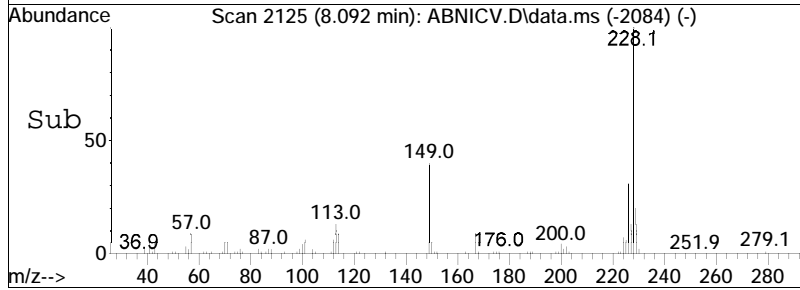
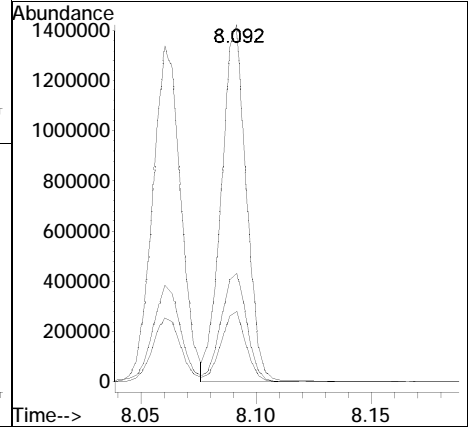
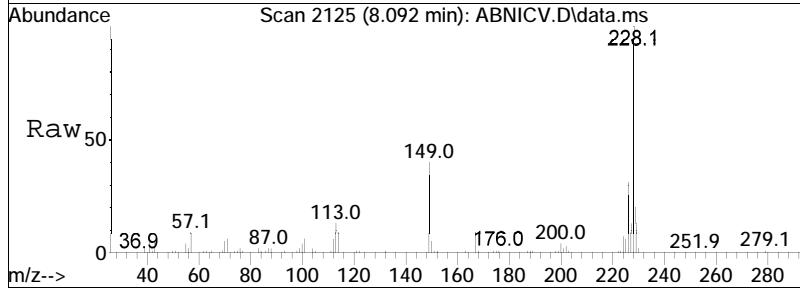
Tgt Ion	Ratio	Lower	Upper
252	100		
126	12.3	13.8	20.6#
254	64.0	53.0	79.6

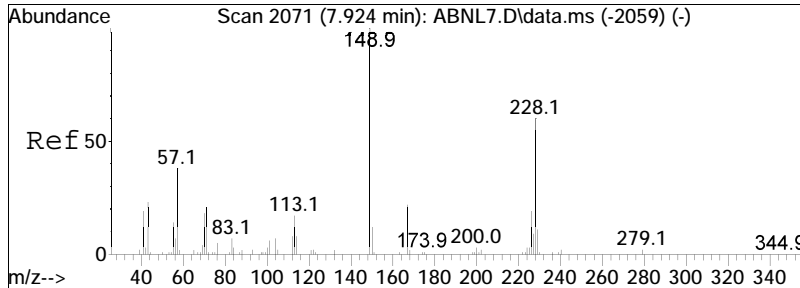




#107
 Chrysene
 Concen: 48.49 ug/ml
 RT: 8.092 min Scan# 2125
 Delta R.T. 0.004 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

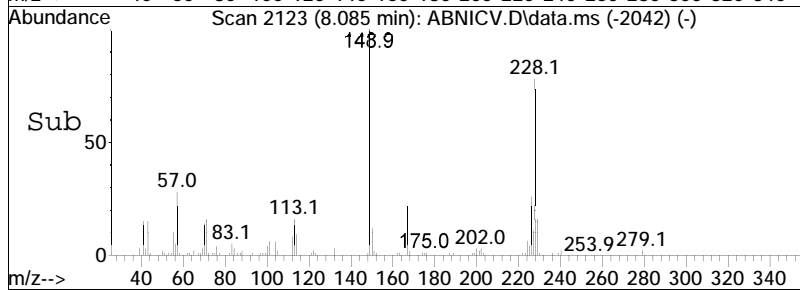
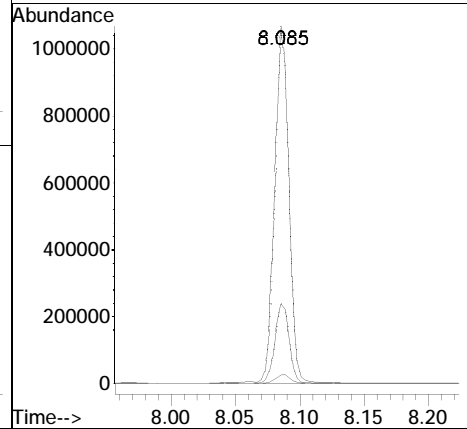
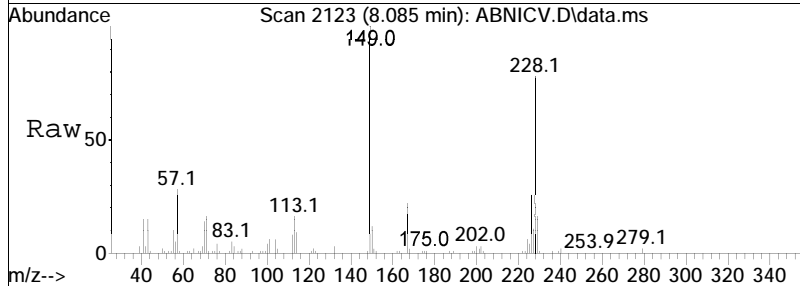
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.6	37.0
229	19.6	15.8	23.6

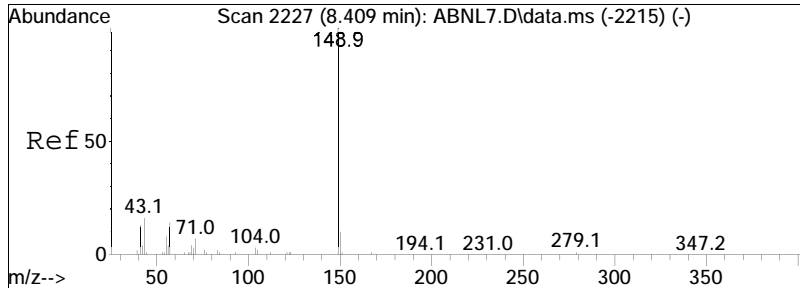




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 45.56 ug/ml
 RT: 8.085 min Scan# 2123
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

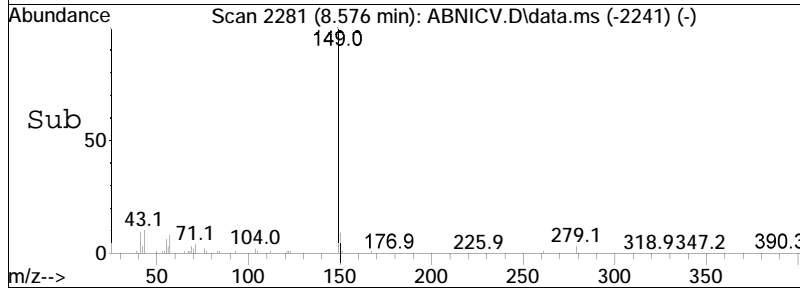
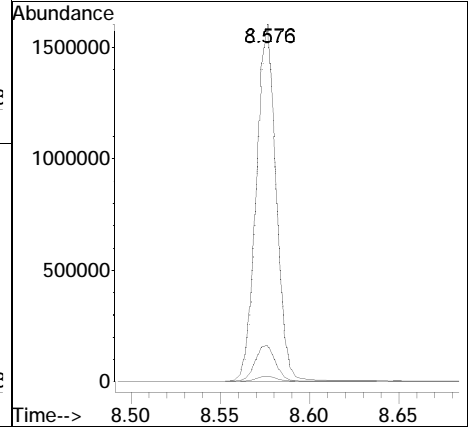
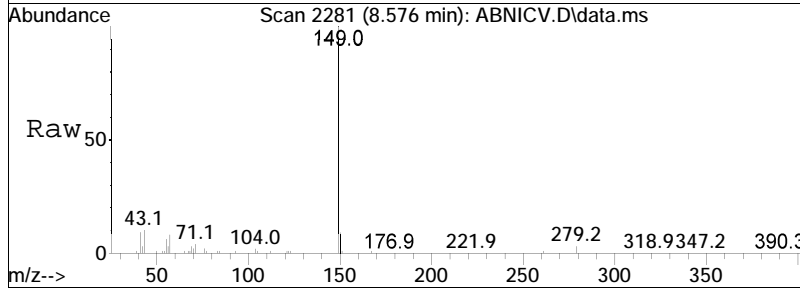
Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.7	19.4	29.0
279	2.4	2.3	3.5

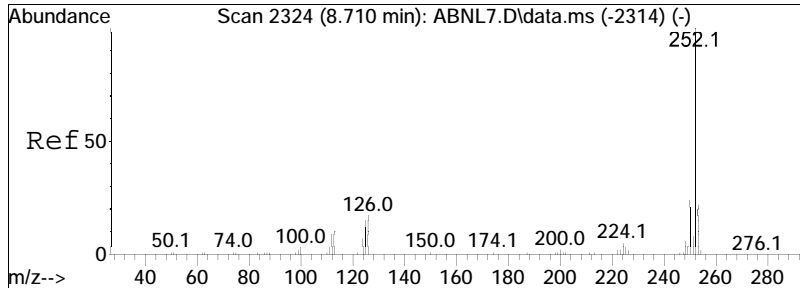




#109
 Di-n-octylphthalate
 Concen: 43.51 ug/ml
 RT: 8.576 min Scan# 2281
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

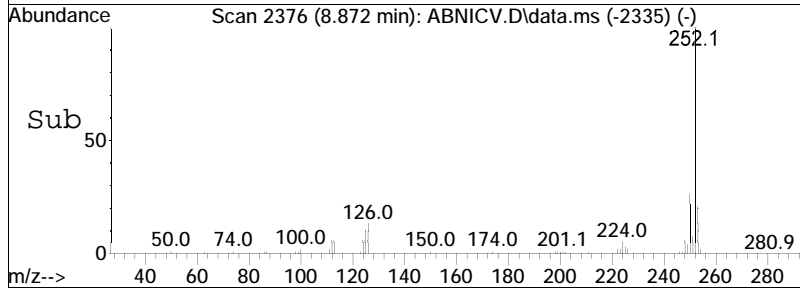
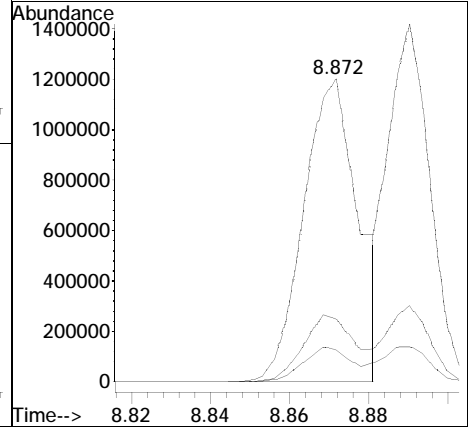
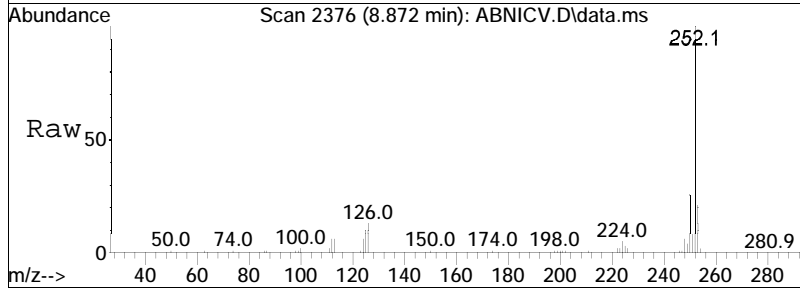
Tgt Ion	Ratio	Lower	Upper
149	100		
43	10.5	10.1	15.1
167	1.4	1.1	1.7

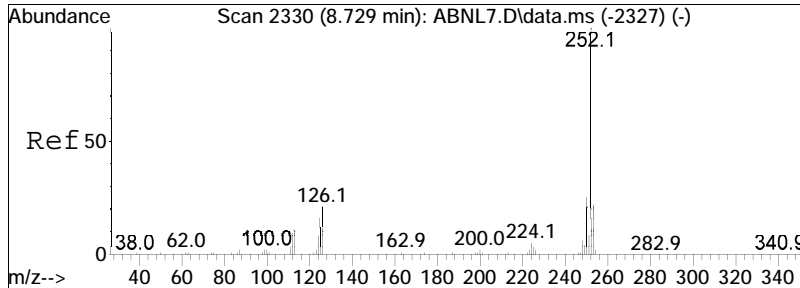




#110
 Benzo(b)fluoranthene
 Concen: 50.86 ug/ml
 RT: 8.872 min Scan# 2376
 Delta R.T. 0.004 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

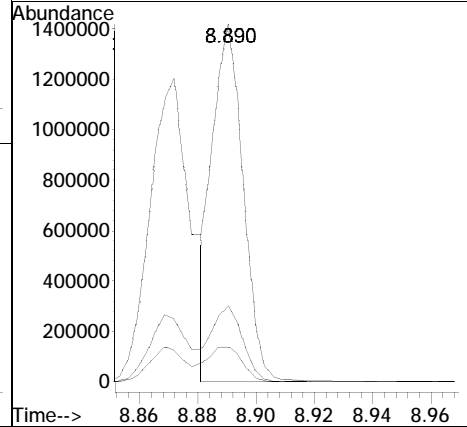
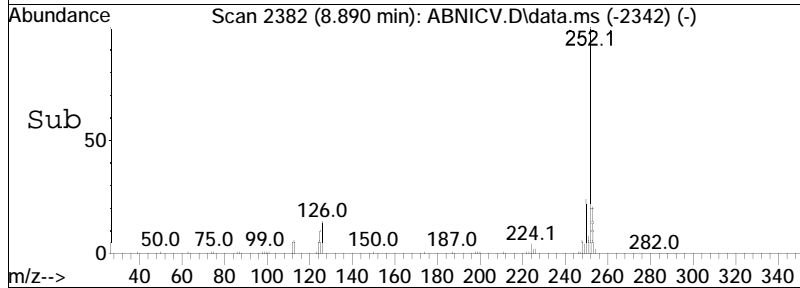
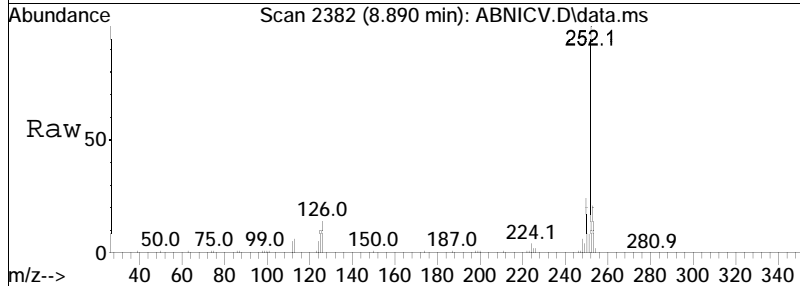
Tgt Ion	Resp	Lower	Upper
252	100		
125	10.0	11.6	17.4#
253	19.8	17.4	26.0

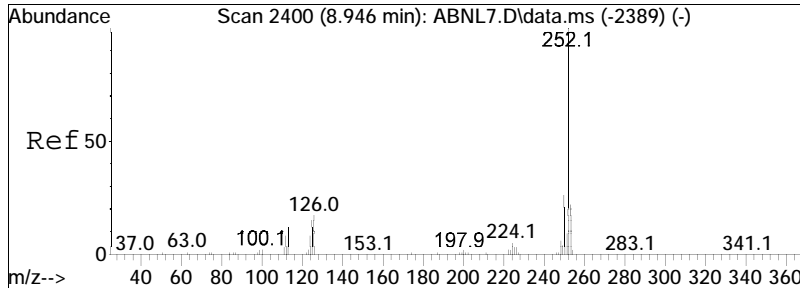




#111
 Benzo(k)fluoranthene
 Concen: 47.21 ug/ml
 RT: 8.890 min Scan# 2382
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

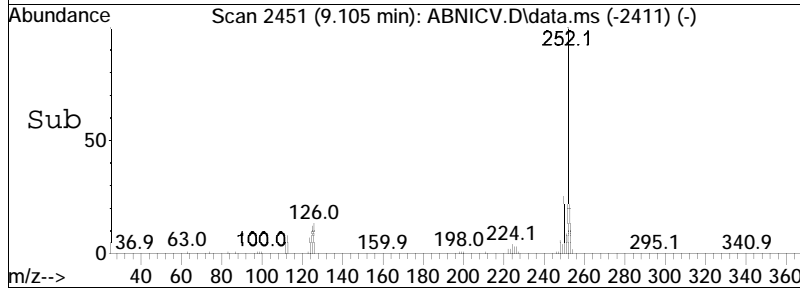
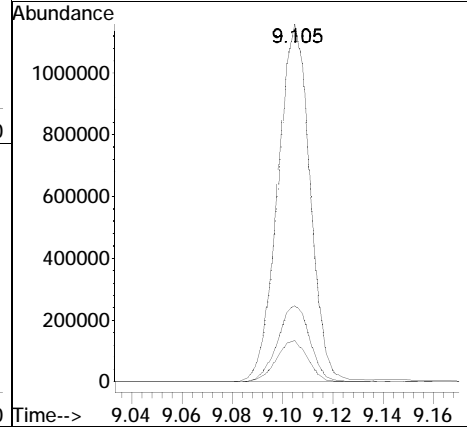
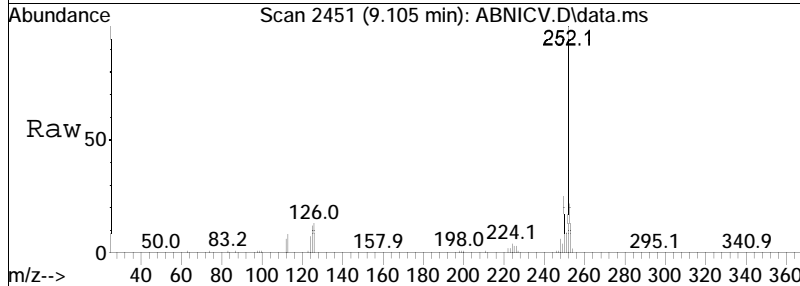
Tgt Ion	Resp	Lower	Upper
252	100		
125	11.6	11.4	17.0
253	23.5	17.2	25.8

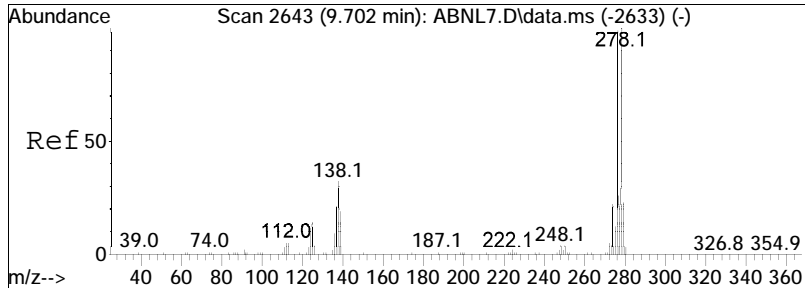




#112
 Benzo(a)pyrene
 Concen: 52.95 ug/ml
 RT: 9.105 min Scan# 2451
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

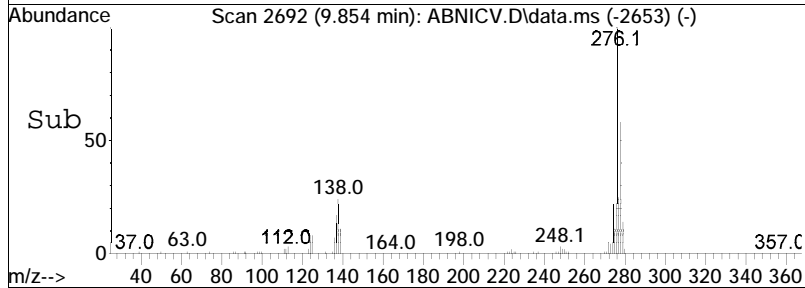
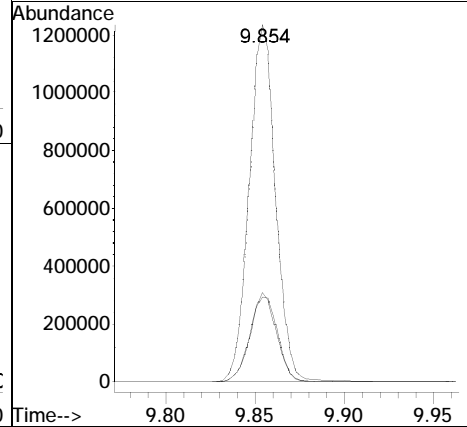
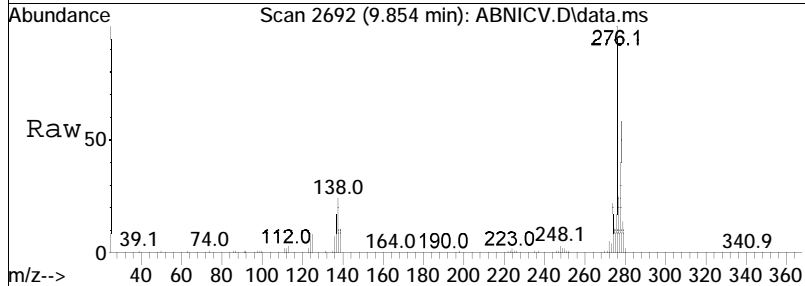
Tgt Ion	Ratio	Lower	Upper
252	100		
125	11.4	12.6	18.8#
253	21.5	16.9	25.3

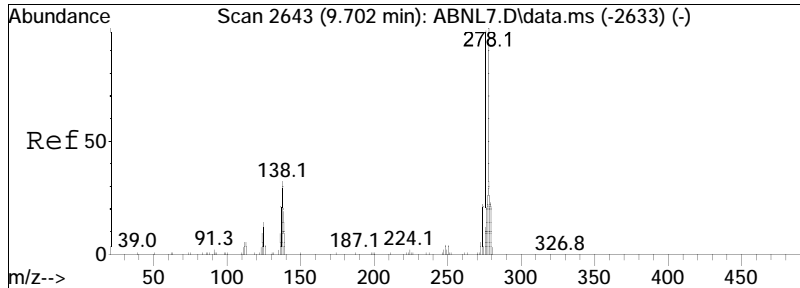




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 51.05 ug/mL
 RT: 9.854 min Scan# 2692
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

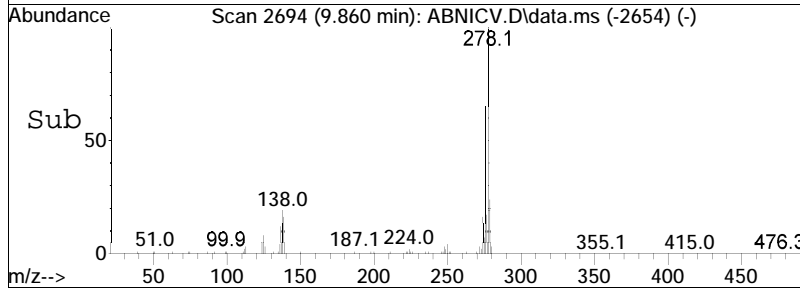
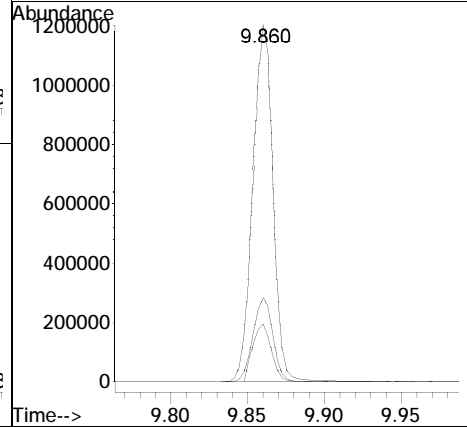
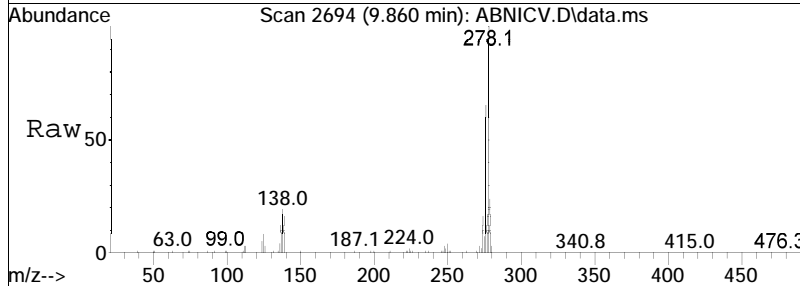
Tgt Ion	Resp	Lower	Upper
276	100		
138	25.7	21.4	32.0
277	25.2	19.2	28.8

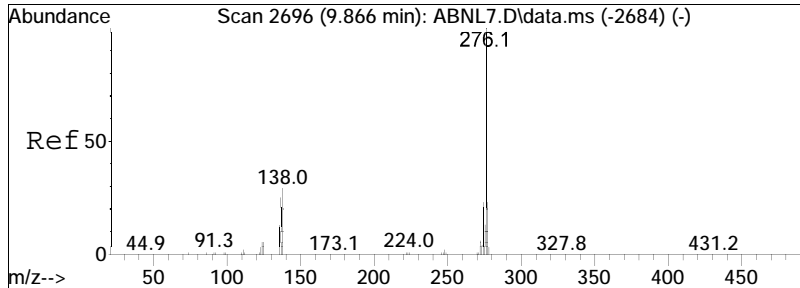




#115
 Dibenzo(a,h)anthracene
 Concen: 49.72 ug/ml
 RT: 9.860 min Scan# 2694
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

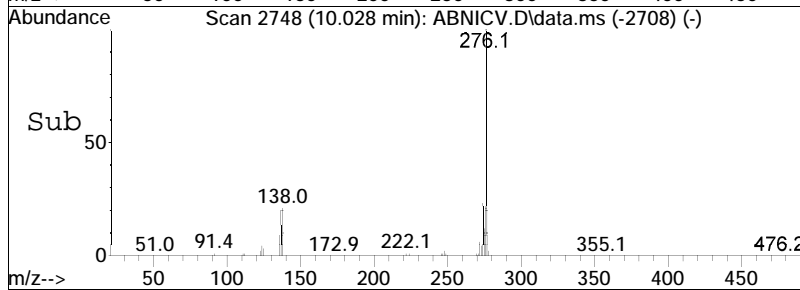
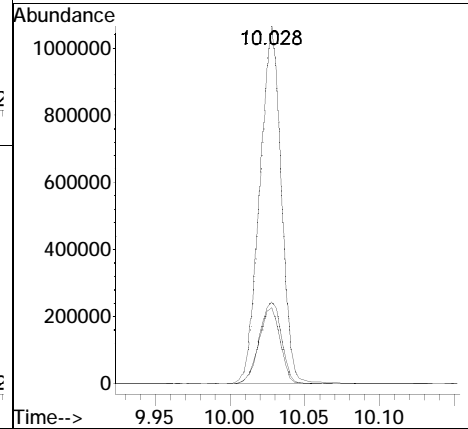
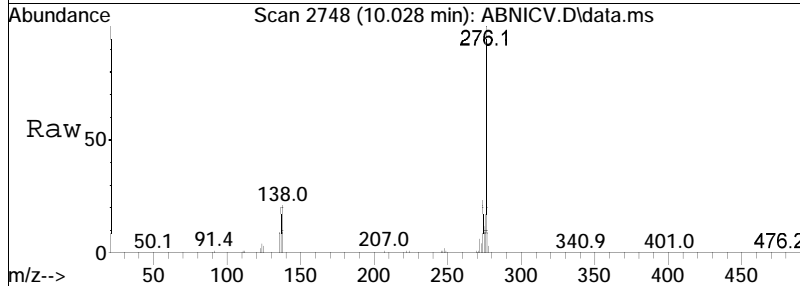
Tgt Ion	Resp	Lower	Upper
278	1093321		
139	15.1	17.1	25.7#
279	23.4	19.3	28.9





#116
 Benzo(ghi)perylene
 Concen: 48.39 ug/ml
 RT: 10.028 min Scan# 2748
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 26 May 2023 11:01 pm

Tgt Ion	Resp	Lower	Upper
276	1050431		
138	21.5	26.7	40.1#
277	23.9	19.4	29.2



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ABNICV.D Operator : SV124:jg
Date Inj'd : 5/26/2023 11:01 pm Instrument : SV124
Sample : CQICV1,32,,ABNICV Lot# 100Quant Date : 5/31/2023 5:39 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9ICV.D
 Acq On : 26 May 2023 11:17 pm
 Operator : SV124:jg
 Sample : CQICV2,32,,AP9ICV Lot# 10075
 Misc : WG1785590,,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 30 10:15:16 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:12:43 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27 I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
28 T	Benzaldehyde	0.783	0.897	-14.6	98	0.00
29 T	Acetophenone	* 50.000	50.348	-0.7	91	0.00
30 T	m-Toluidine	1.501	1.758	-17.1	94	0.00
31 T	2-Chloroaniline	1.593	1.690	-6.1	91	0.00
55 I	IS2_Naphthalene-d8	1.000	1.000	0.0	87	0.00
56 T	a-Terpineol	0.292	0.310	-6.2	87	0.00
57 T	3-Chloroaniline	0.129	0.143	-10.9	90	0.00
58 T	2,6-Dichlorophenol	0.261	0.286	-9.6	91	0.00
59 T	1-chloro-2-nitrobenzene	0.134	0.146	-9.0	91	0.00
60 T	Caprolactam	* 50.000	46.257	7.5	86	0.00
61 T	1,2,4,5-Tetrachlorobenzene	0.361	0.367	-1.7	89	0.00
62 T	Biphenyl	0.822	0.865	-5.2	89	0.00
83 I	IS2_Acenaphthene-d10	1.000	1.000	0.0	83	0.00
84 T	Dichloran	* 50.000	44.382	11.2	82	0.00
85 T	Pentachloronitrobenzene	0.198	0.206	-4.0	82	0.00
98 I	IS2_Phenanthrene-d10	1.000	1.000	0.0	80	0.00
99 T	Diphenamid	* 50.000	53.511	-7.0	81	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : AP9ICV.D
 Acq On : 26 May 2023 11:17 pm
 Operator : SV124:jg
 Sample : CQICV2,32,,AP9ICV Lot# 10075
 Misc : WG1785590,,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 30 10:15:16 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:12:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.392	152	109998	40.000	ug/ml	0.00
Standard Area 3 = 120958			Recovery	=	90.94%	
55) IS2_Naphthalene-d8	4.157	136	436861	40.000	ug/ml	0.00
Standard Area 3 = 501069			Recovery	=	87.19%	
83) IS2_Acenaphthene-d10	5.269	164	233426	40.000	ug/ml	0.00
Standard Area 3 = 282807			Recovery	=	82.54%	
98) IS2_Phenanthrene-d10	6.217	188	512155	40.000	ug/ml	# 0.00
Standard Area 3 = 640773			Recovery	=	79.93%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.140	105	123339	57.299	ug/ml	89
29) Acetophenone	3.625	105	250376	50.348	ug/ml	95
30) m-Toluidine	3.672	106	241694	58.552	ug/ml	98
31) 2-Chloroaniline	3.899	127	232316	53.019	ug/ml#	96
56) a-Terpineol	4.181	59	169164	53.012	ug/ml	98
57) 3-Chloroaniline	4.191	65	78281	55.376	ug/ml#	71
58) 2,6-Dichlorophenol	4.209	162	156286	54.892	ug/ml	97
59) 1-chloro-2-nitrobenzene	4.380	111	79483	54.452	ug/ml	95
60) Caprolactam	4.408	55	82829	46.257	ug/ml#	89
61) 1,2,4,5-Tetrachloroben...	4.716	216	200536	50.887	ug/ml	98
62) Biphenyl	4.899	154	472509	52.622	ug/ml	99
84) Dichloran	6.012	206	49516	44.382	ug/ml	82
85) Pentachloronitrobenzene	6.112	237	59978	51.947	ug/ml#	83
99) Diphenamid	6.805	167	319413	53.511	ug/ml	86

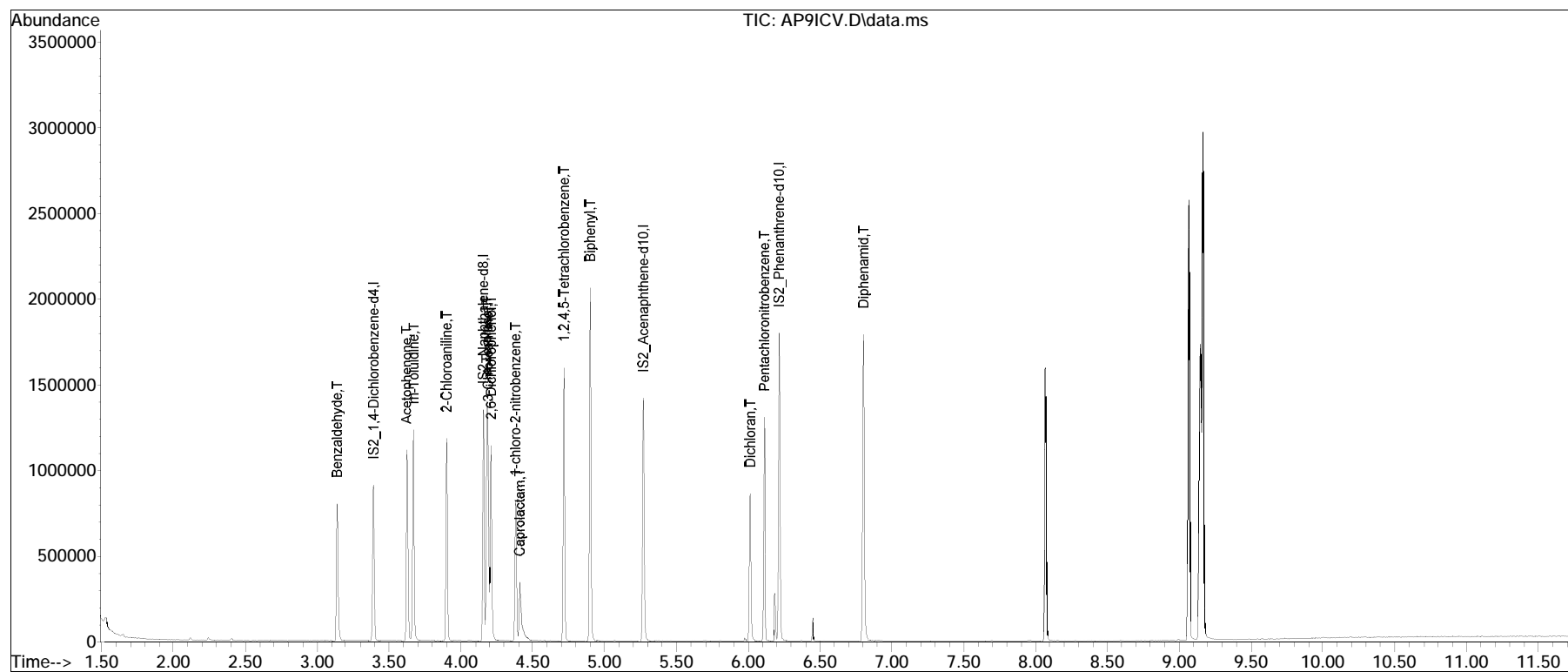
(#) = qualifier out of range (m) = manual integration (+) = signals summed

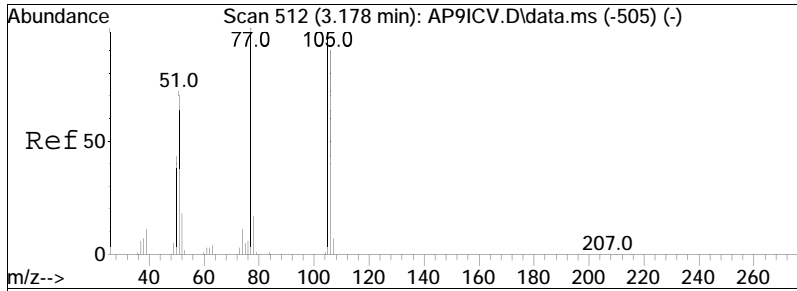
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
Data File : AP9ICV.D
Acq On : 26 May 2023 11:17 pm
Operator : SV124:jg
Sample : CQICV2,32,,AP9ICV Lot# 10075
Misc : WG1785590,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 30 10:15:16 2023
Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 30 10:12:43 2023
Response via : Initial Calibration

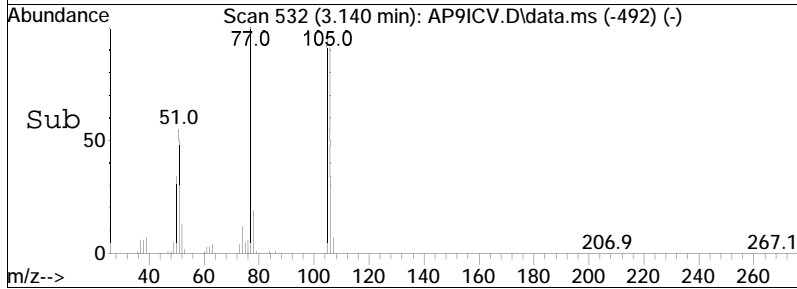
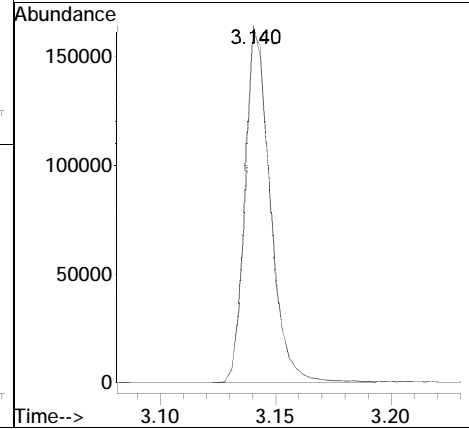
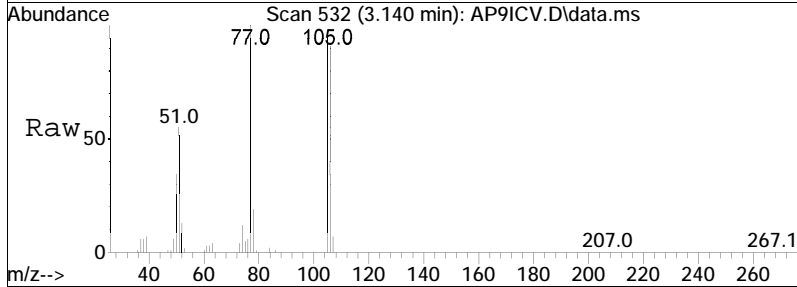
Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•

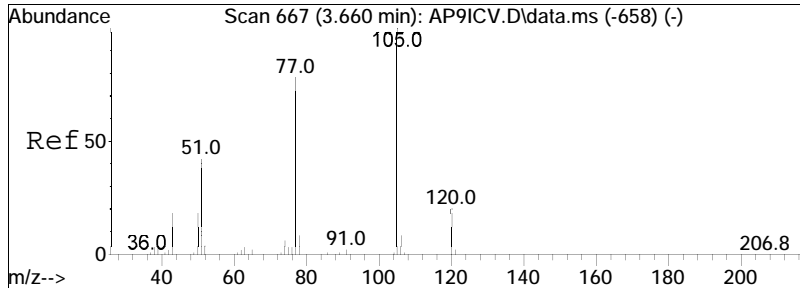




#28
 Benzaldehyde
 Concen: 57.30 ug/ml
 RT: 3.140 min Scan# 532
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 26 May 2023 11:17 pm

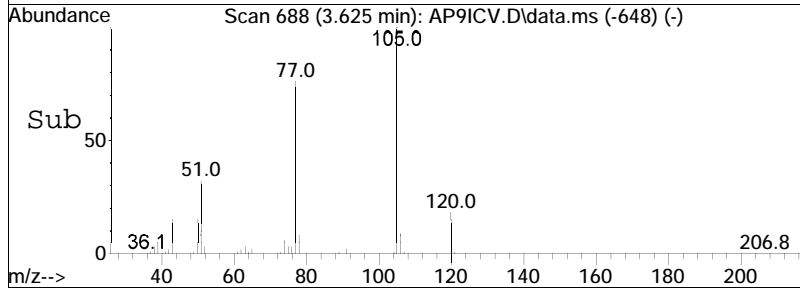
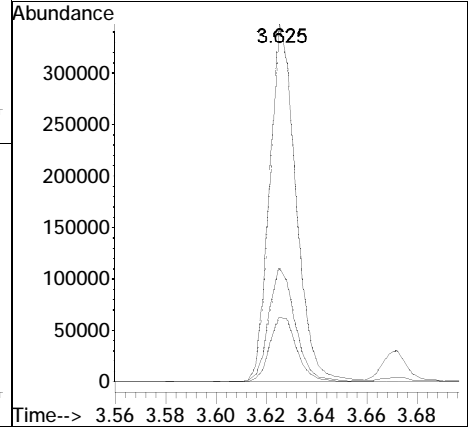
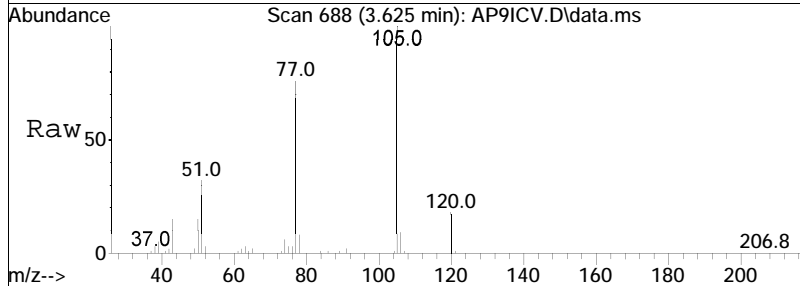
Tgt Ion:105 Resp: 123339
 Ion Ratio Lower Upper
 105 100
 77 100.5 72.0 108.0

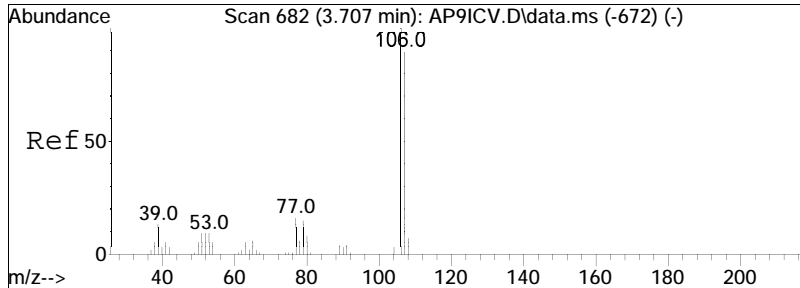




#29
 Acetophenone
 Concen: 50.35 ug/ml
 RT: 3.625 min Scan# 688
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 26 May 2023 11:17 pm

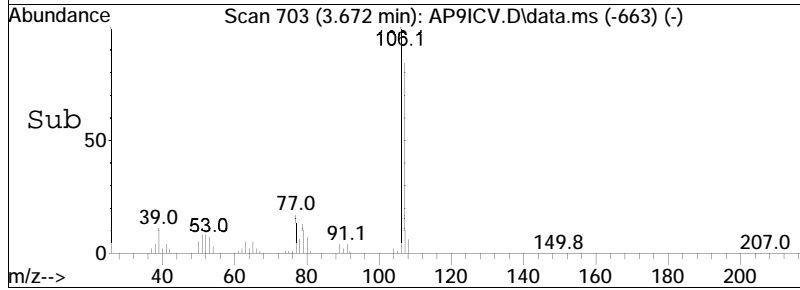
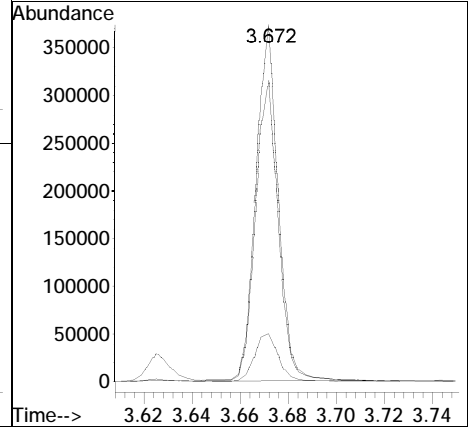
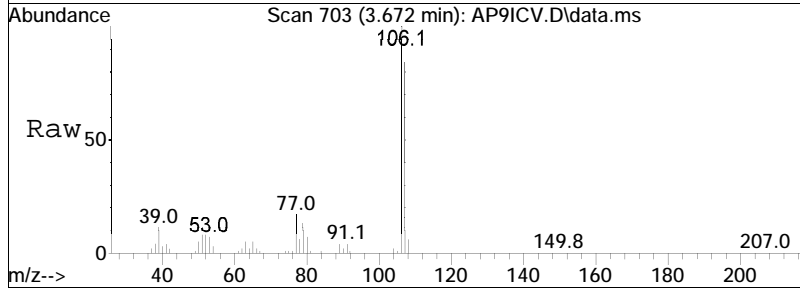
Tgt Ion	Ratio	Lower	Upper
105	100		
120	18.9	18.0	27.0
51	31.5	23.8	35.6

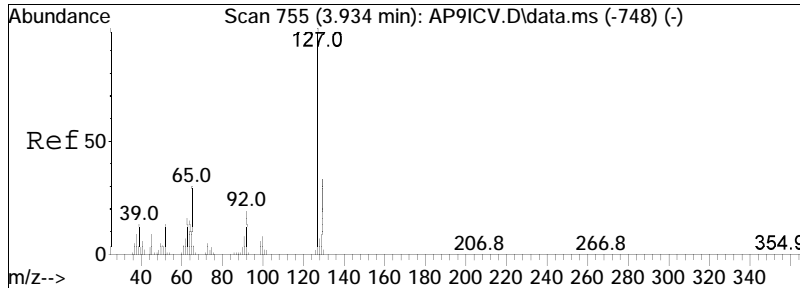




#30
 m-Toluidine
 Concen: 58.55 ug/ml
 RT: 3.672 min Scan# 703
 Delta R.T. -0.000 min
 Lab File: AP9ICV.D
 Acq: 26 May 2023 11:17 pm

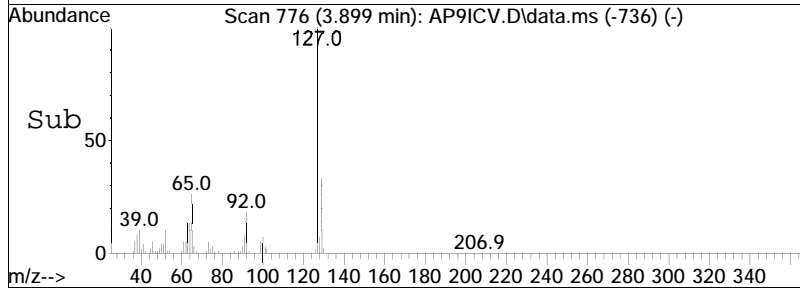
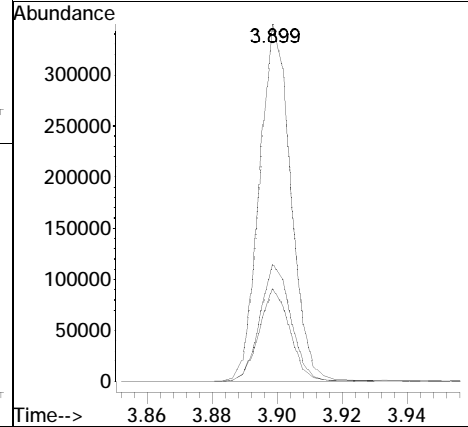
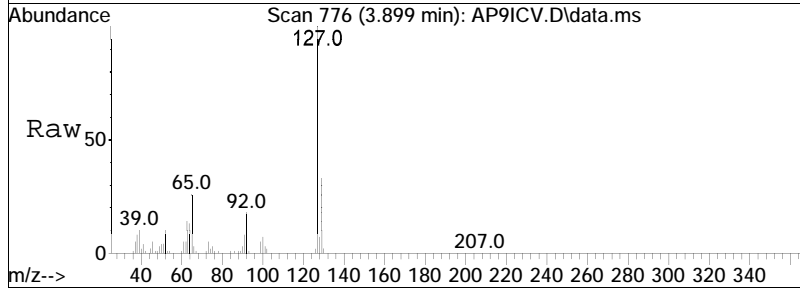
Tgt Ion	Ratio	Lower	Upper
106	100		
107	86.8	71.1	106.7
79	14.4	10.5	15.7

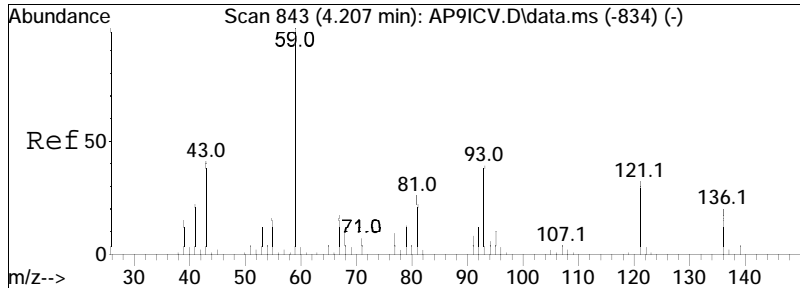




#31
 2-Chloroaniline
 Concen: 53.02 ug/ml
 RT: 3.899 min Scan# 776
 Delta R.T. -0.000 min
 Lab File: AP9ICV.D
 Acq: 26 May 2023 11:17 pm

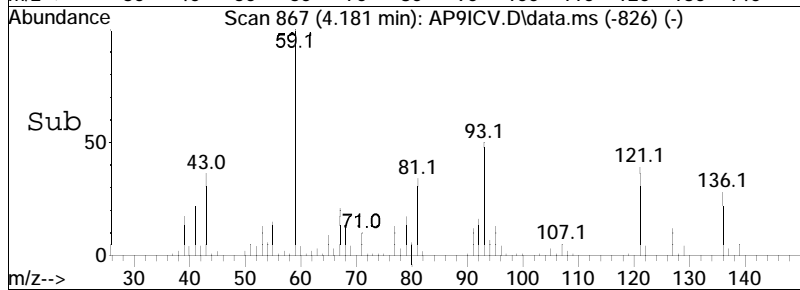
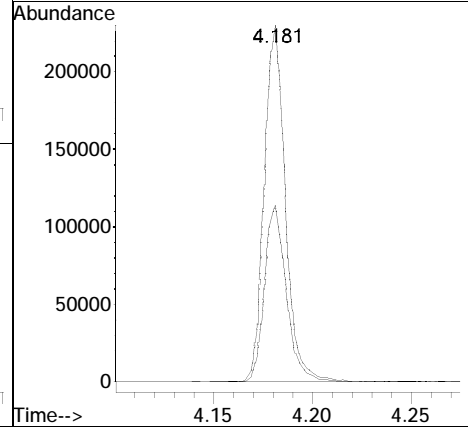
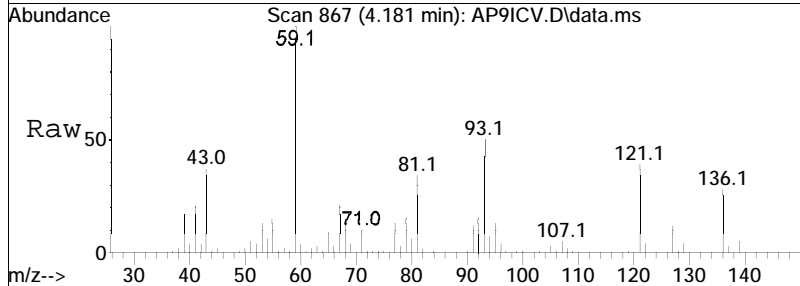
Tgt Ion	Ratio	Lower	Upper
127	100		
129	32.6	25.9	38.9
65	25.7	17.1	25.7#

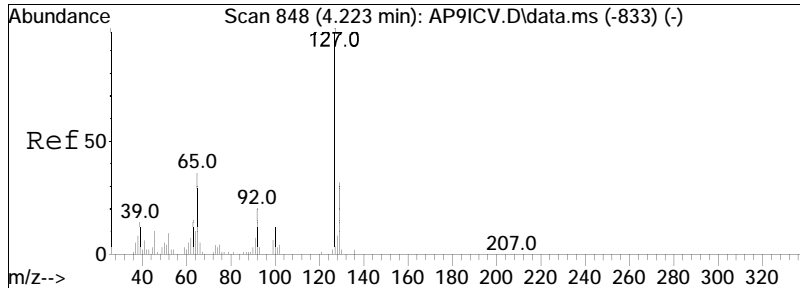




#56
 a-Terpineol
 Concen: 53.01 ug/ml
 RT: 4.181 min Scan# 867
 Delta R.T. 0.003 min
 Lab File: AP9ICV.D
 Acq: 26 May 2023 11:17 pm

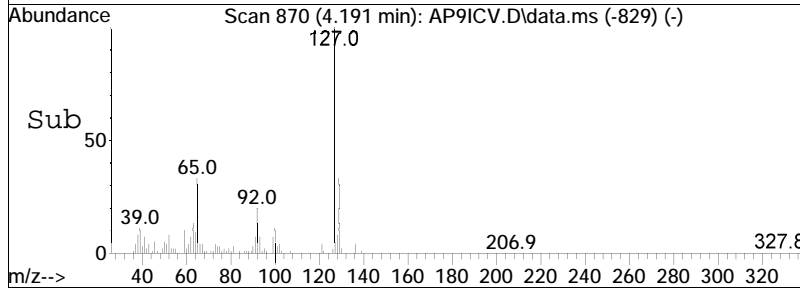
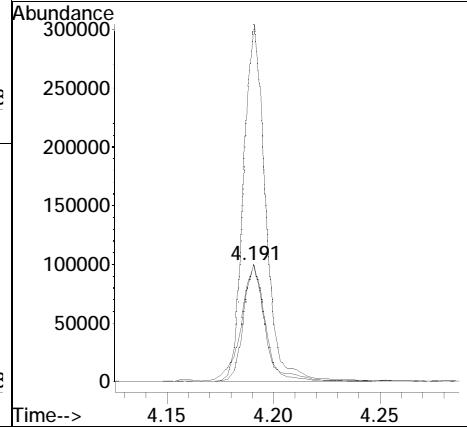
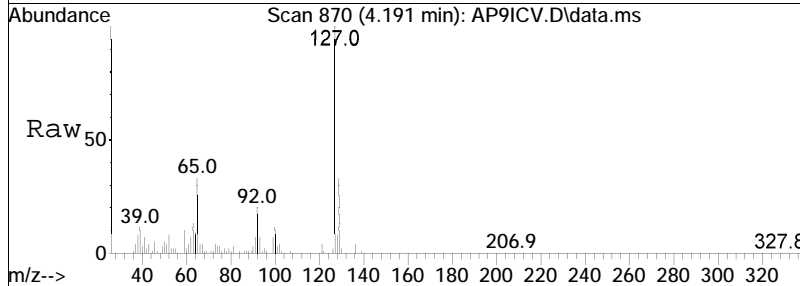
Tgt Ion: 59 Resp: 169164
 Ion Ratio Lower Upper
 59 100
 93 51.7 42.2 63.4

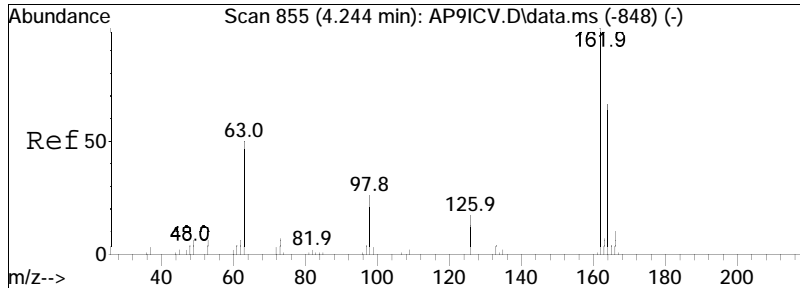




#57
 3-Chloroaniline
 Concen: 55.38 ug/ml
 RT: 4.191 min Scan# 870
 Delta R.T. 0.003 min
 Lab File: AP9ICV.D
 Acq: 26 May 2023 11:17 pm

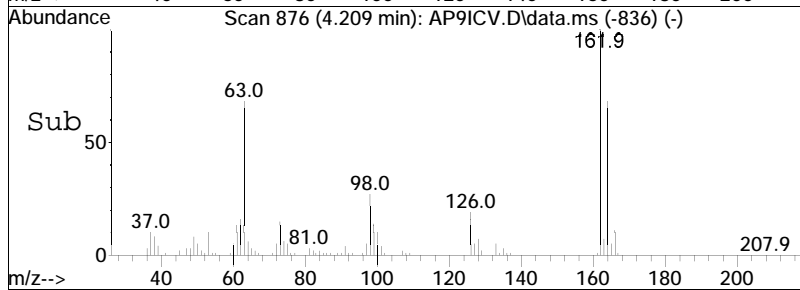
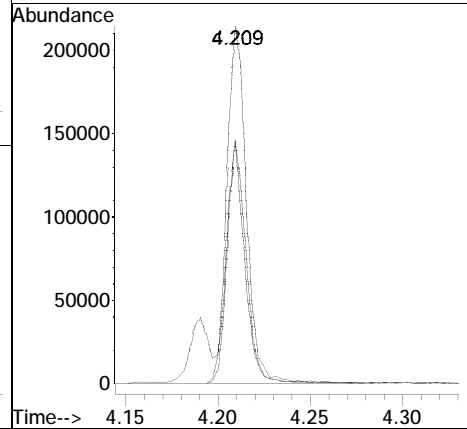
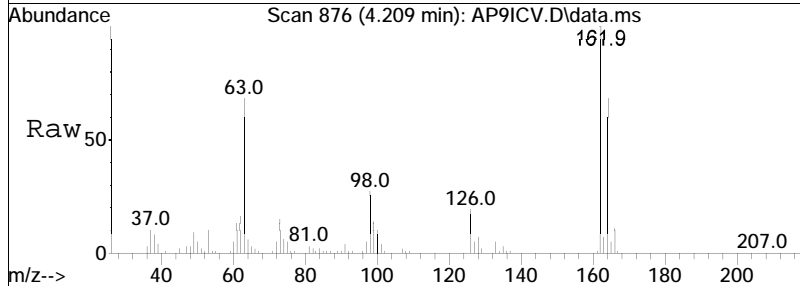
Tgt Ion:	Resp:	Lower	Upper
65	100		
127	278.2	278.4	417.6#
129	89.7	88.9	133.3

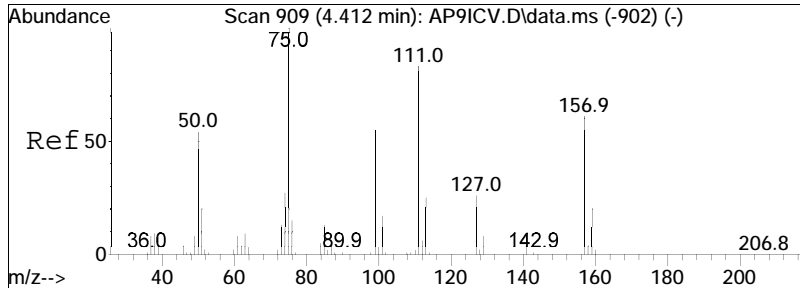




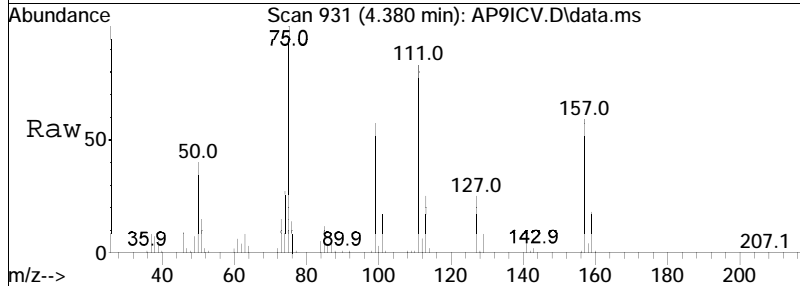
#58
 2,6-Dichlorophenol
 Concen: 54.89 ug/ml
 RT: 4.209 min Scan# 876
 Delta R.T. -0.001 min
 Lab File: AP9ICV.D
 Acq: 26 May 2023 11:17 pm

Tgt Ion	Resp	Lower	Upper
162	100		
164	65.1	50.8	76.2
63	62.3	47.4	71.0

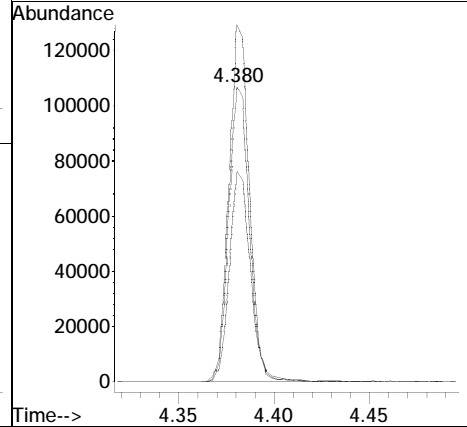
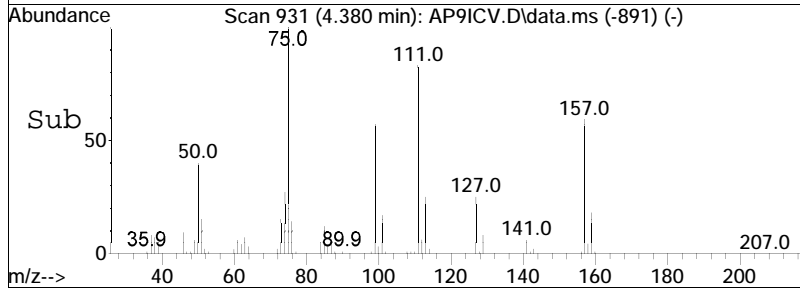


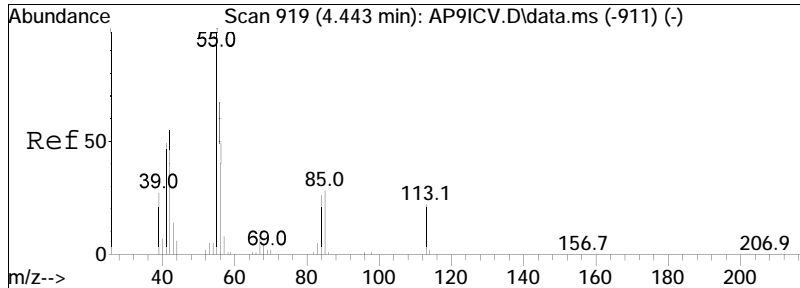


#59
 1-chloro-2-nitrobenzene
 Concen: 54.45 ug/ml
 RT: 4.380 min Scan# 931
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 26 May 2023 11:17 pm



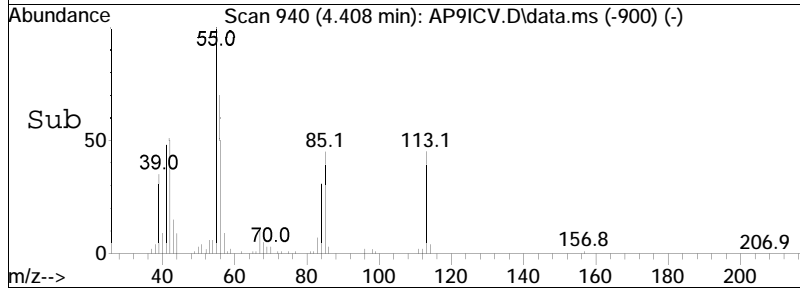
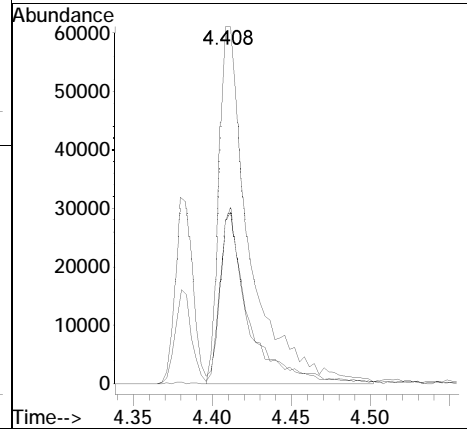
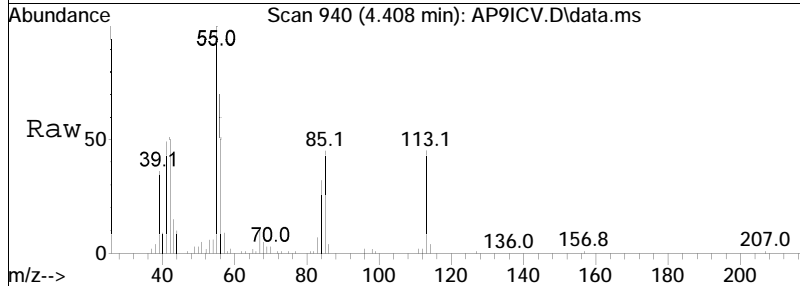
Tgt Ion	Resp	Lower	Upper
111	100		
157	71.9	62.6	94.0
75	120.0	93.0	139.6

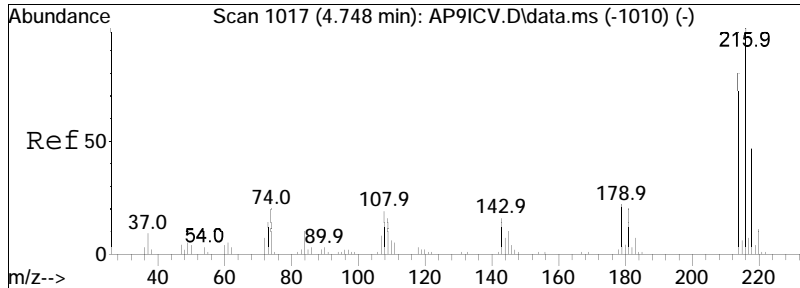




#60
 Caprolactam
 Concen: 46.26 ug/ml
 RT: 4.408 min Scan# 940
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 26 May 2023 11:17 pm

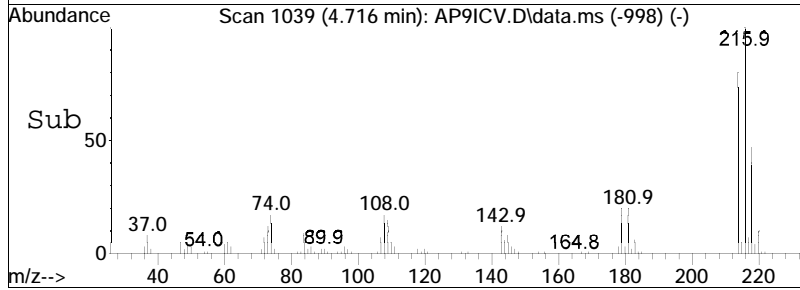
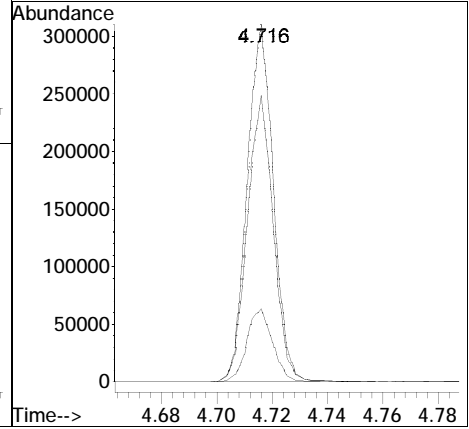
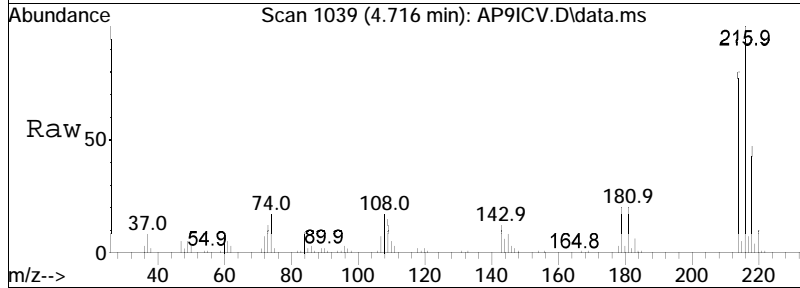
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
55	100		
85	42.9	32.6	48.8
113	43.6	44.6	66.8#

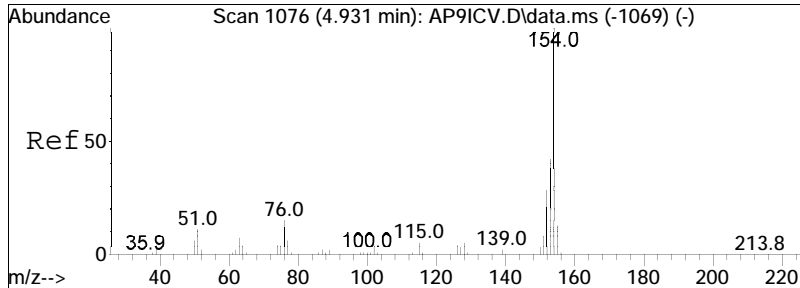




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 50.89 ug/ml
 RT: 4.716 min Scan# 1039
 Delta R.T. 0.003 min
 Lab File: AP9ICV.D
 Acq: 26 May 2023 11:17 pm

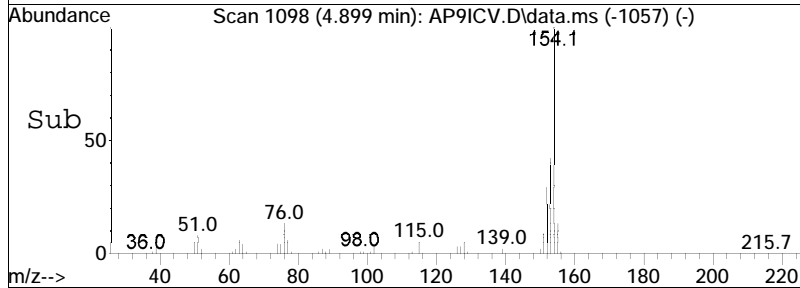
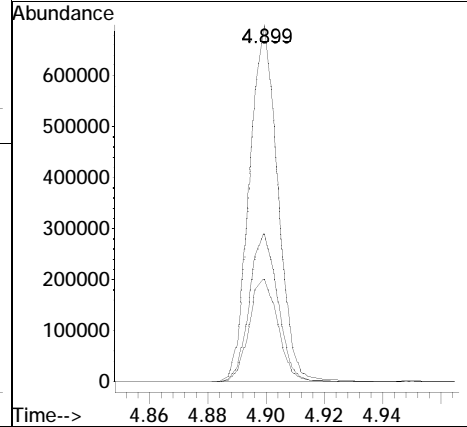
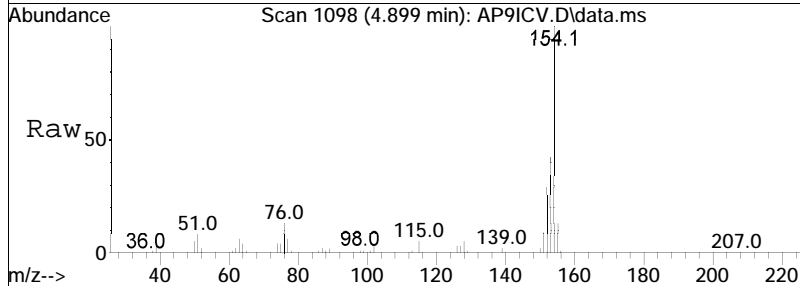
Tgt Ion	Ratio	Lower	Upper
216	100		
214	80.0	63.0	94.6
179	20.3	17.4	26.2

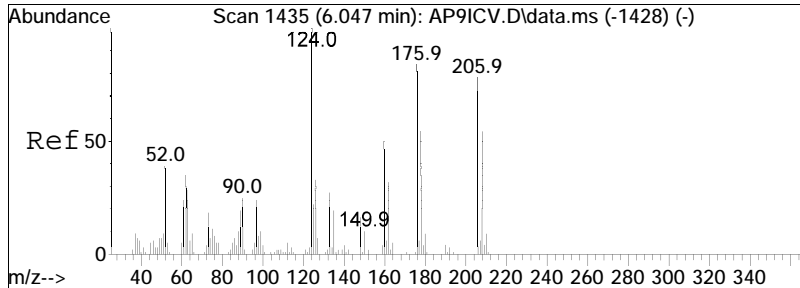




#62
 Biphenyl
 Concen: 52.62 ug/ml
 RT: 4.899 min Scan# 1098
 Delta R.T. 0.003 min
 Lab File: AP9ICV.D
 Acq: 26 May 2023 11:17 pm

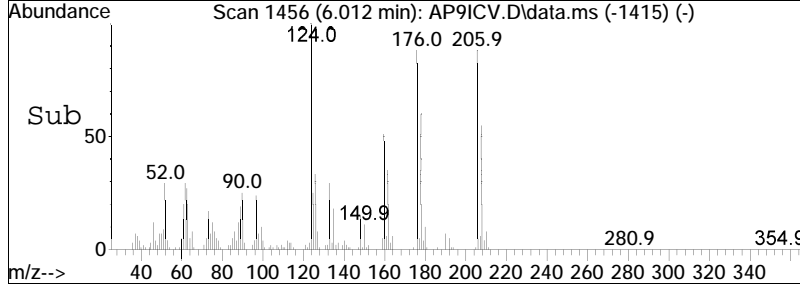
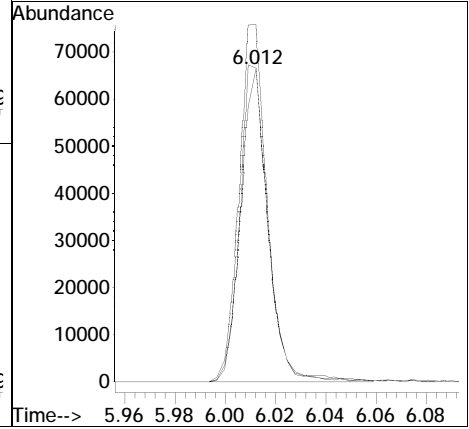
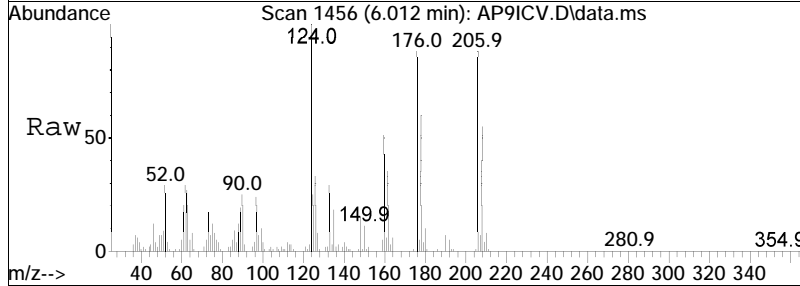
Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.7	33.5	50.3
152	29.5	22.6	34.0

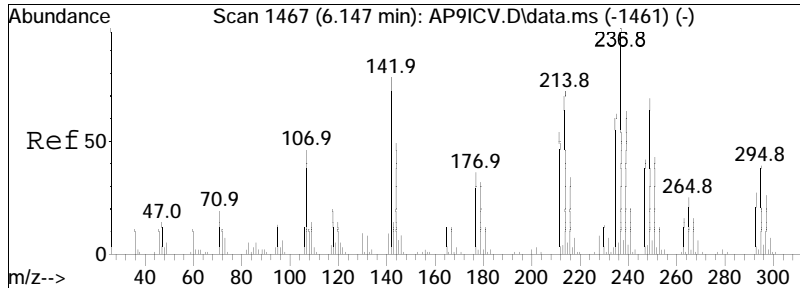




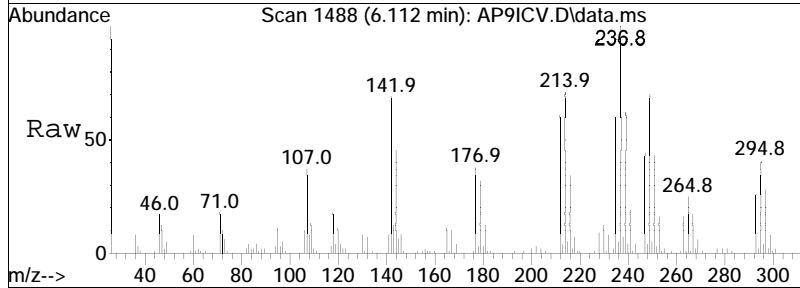
#84
 Dichloran
 Concen: 44.38 ug/ml
 RT: 6.012 min Scan# 1456
 Delta R.T. 0.003 min
 Lab File: AP9ICV.D
 Acq: 26 May 2023 11:17 pm

Tgt Ion	Resp	Lower	Upper
206	49516		
206	100		
176	105.1	72.3	108.5
124	118.6	114.0	171.0

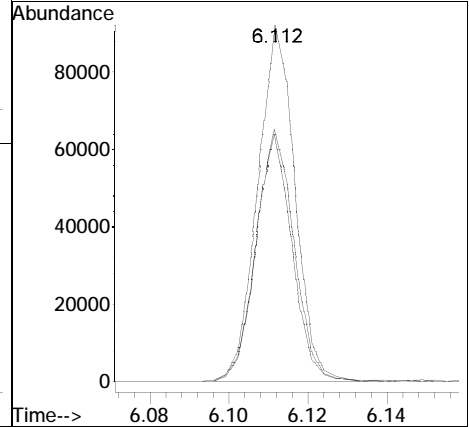
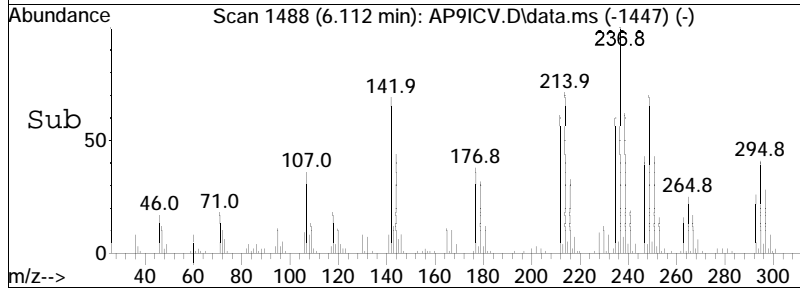


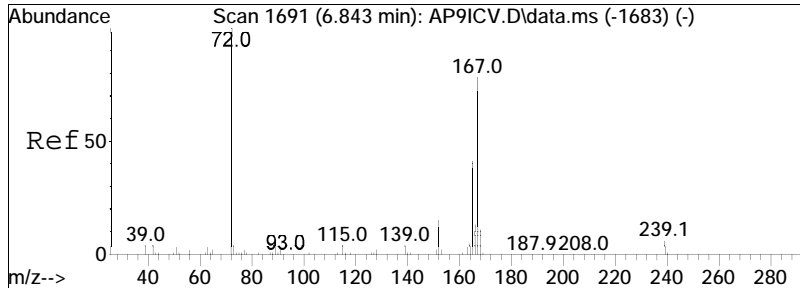


#85
 Pentachloronitrobenzene
 Concen: 51.95 ug/ml
 RT: 6.112 min Scan# 1488
 Delta R.T. 0.003 min
 Lab File: AP9ICV.D
 Acq: 26 May 2023 11:17 pm



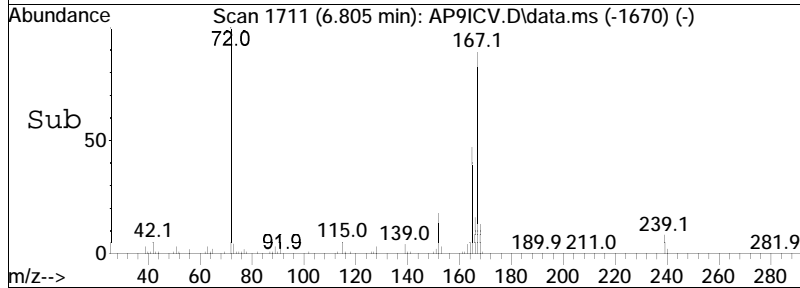
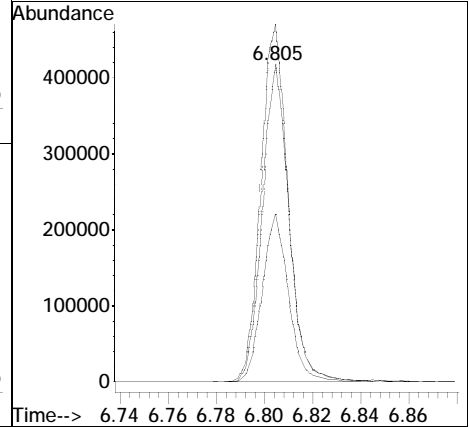
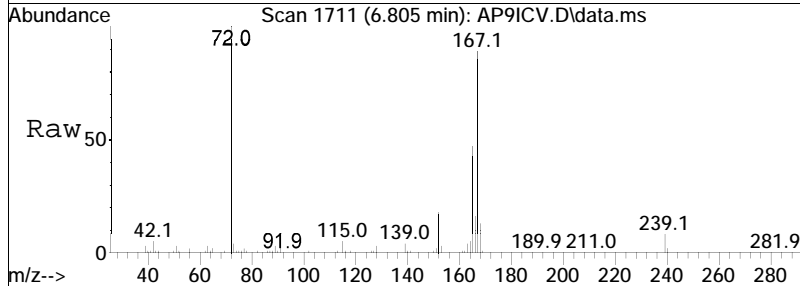
Tgt Ion	Resp	Lower	Upper
237	59978		
237	100		
142	68.5	75.2	112.8#
214	71.9	60.5	90.7





#99
 Diphenamid
 Concen: 53.51 ug/ml
 RT: 6.805 min Scan# 1711
 Delta R.T. 0.003 min
 Lab File: AP9ICV.D
 Acq: 26 May 2023 11:17 pm

Tgt Ion	Resp	Lower	Upper
167	319413		
72	114.5	105.4	158.2
165	52.3	36.2	54.4



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : AP9ICV.D Operator : SV124:jg
Date Inj'd : 5/26/2023 11:17 pm Instrument : SV124
Sample : CQICV2,32,,AP9ICV Lot# 100Quant Date : 5/30/2023 10:15 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ADPL10.D
 Acq On : 26 May 2023 11:34 pm
 Operator : SV124:jg
 Sample : IL21,32,,ADPL200 Lot# 10054
 Misc : WG1785590,,
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 31 17:15:37 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.386	152	118806	40.000	ug/ml	0.00
Standard Area 2 = 121630			Recovery	=	97.68%	
86) IS3_Acenaphthene-d10	5.269	164	265772	40.000	ug/ml	0.00
Standard Area 2 = 266297			Recovery	=	99.80%	
100) IS3_Phenanthrene-d10	6.217	188	616839	40.000	ug/ml	# 0.00
Standard Area 2 = 611911			Recovery	=	100.81%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.823	88	266262	187.477	ug/ml#	76
34) n-Decane	3.299	57	926784	205.840	ug/ml#	95
87) Atrazine	6.040	200	653756	254.133	ug/ml	96
101) n-Octadecane	6.149	57	1683972	245.238	ug/ml	92
102) Parathion	6.715	109	434942	197.257	ug/ml#	94
103) 3,3'-Dimethylbenzidine	7.638	212	3006324	197.357	ug/ml	99

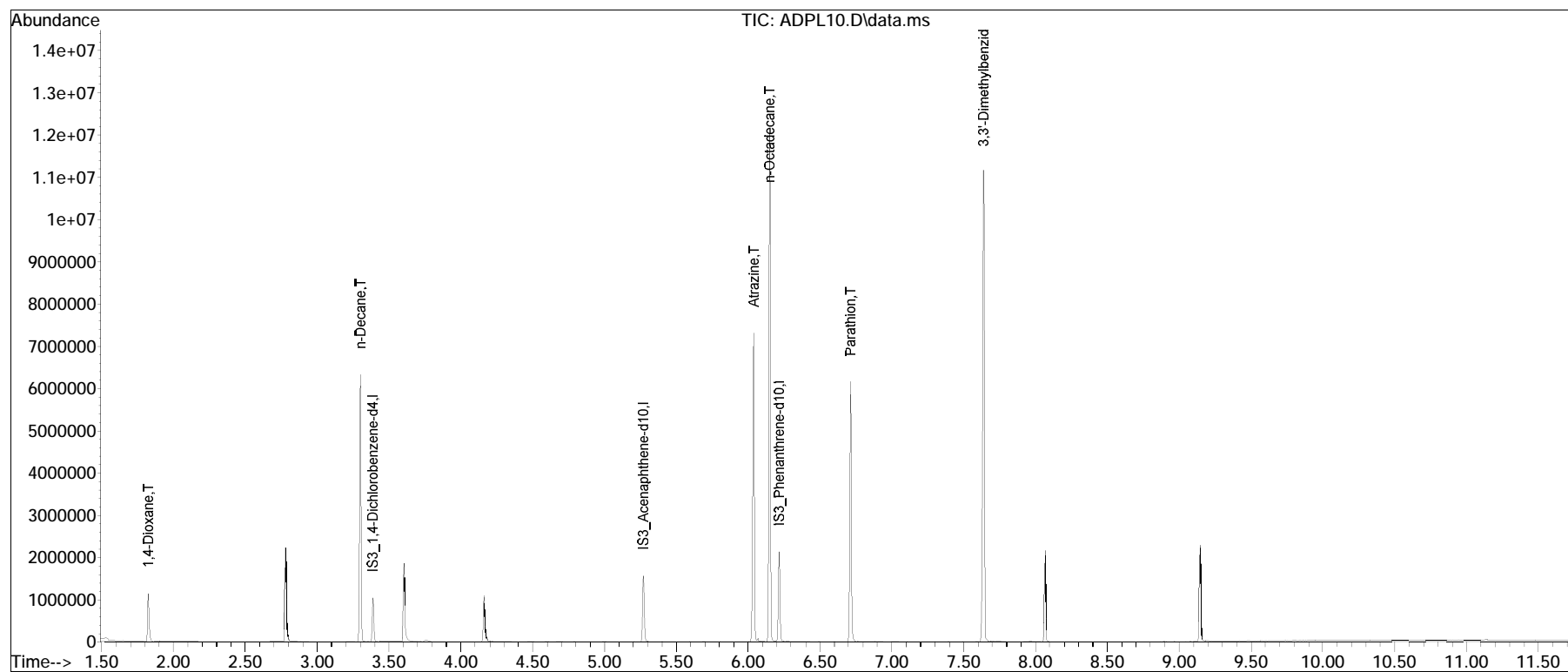
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
Data File : ADPL10.D
Acq On : 26 May 2023 11:34 pm
Operator : SV124:jg
Sample : IL21,32,,ADPL200 Lot# 10054
Misc : WG1785590,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 31 17:15:37 2023
Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 30 10:21:43 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ADPL10.D Operator : SV124:jg
Date Inj'd : 5/26/2023 11:34 pm Instrument : SV124
Sample : IL21,32,,ADPL200 Lot# 1005Quant Date : 5/31/2023 5:15 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ADPL9.D
 Acq On : 26 May 2023 11:51 pm
 Operator : SV124:jg
 Sample : IL22,32,,ADPL150 Lot# 10055
 Misc : WG1785590,,
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 31 17:17:08 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.389	152	129197	40.000	ug/ml	0.00
Standard Area 2 = 121630			Recovery	=	106.22%	
86) IS3_Acenaphthene-d10	5.270	164	291722	40.000	ug/ml	0.00
Standard Area 2 = 266297			Recovery	=	109.55%	
100) IS3_Phenanthrene-d10	6.218	188	675602	40.000	ug/ml	# 0.00
Standard Area 2 = 611911			Recovery	=	110.41%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.823	88	202062	130.830	ug/ml#	76
34) n-Decane	3.299	57	725934	148.414	ug/ml#	95
87) Atrazine	6.037	200	518962	183.789	ug/ml	95
101) n-Octadecane	6.149	57	1380639	183.575	ug/ml	93
102) Parathion	6.715	109	344534	152.995	ug/ml#	94
103) 3,3'-Dimethylbenzidine	7.635	212	2403130	152.237	ug/ml	99

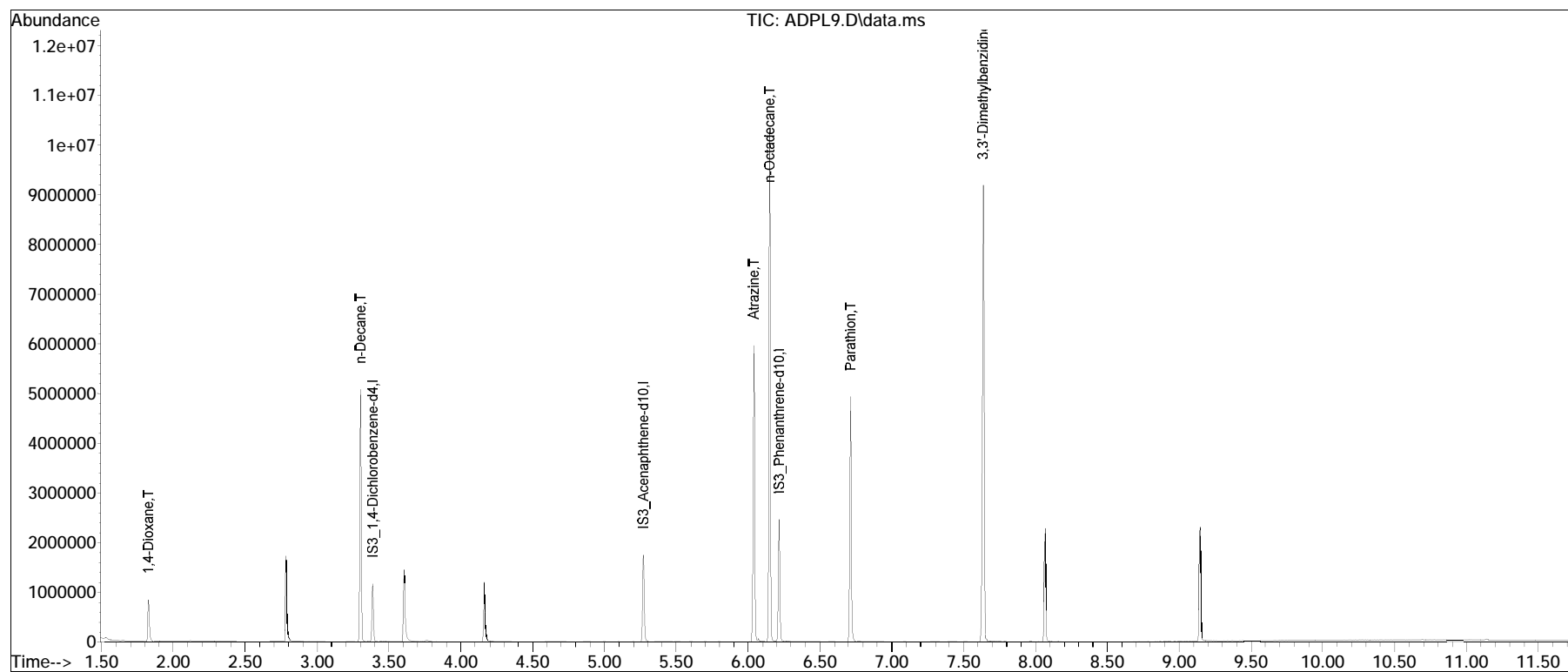
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
Data File : ADPL9.D
Acq On : 26 May 2023 11:51 pm
Operator : SV124:jg
Sample : IL22,32,,ADPL150 Lot# 10055
Misc : WG1785590,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 31 17:17:08 2023
Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 30 10:21:43 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ADPL9.D Operator : SV124:jg
Date Inj'd : 5/26/2023 11:51 pm Instrument : SV124
Sample : IL22,32,,ADPL150 Lot# 1005Quant Date : 5/31/2023 5:17 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ADPL8.D
 Acq On : 27 May 2023 12:08 am
 Operator : SV124:jg
 Sample : IL23,32,,ADPL100 Lot# 10056
 Misc : WG1785590,,
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: May 31 17:16:58 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.389	152	123071	40.000	ug/ml	0.00
Standard Area 2 = 121630			Recovery	=	101.18%	
86) IS3_Acenaphthene-d10	5.269	164	277542	40.000	ug/ml	0.00
Standard Area 2 = 266297			Recovery	=	104.22%	
100) IS3_Phenanthrene-d10	6.217	188	639854	40.000	ug/ml	0.00
Standard Area 2 = 611911			Recovery	=	104.57%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.825	88	135456	92.070	ug/ml#	77
34) n-Decane	3.302	57	459655	98.833	ug/ml	95
87) Atrazine	6.037	200	316473	117.805	ug/ml	96
101) n-Octadecane	6.149	57	820835	115.239	ug/ml	93
102) Parathion	6.715	109	201730	103.224	ug/ml#	94
103) 3,3'-Dimethylbenzidine	7.635	212	1450018	103.581	ug/ml	99

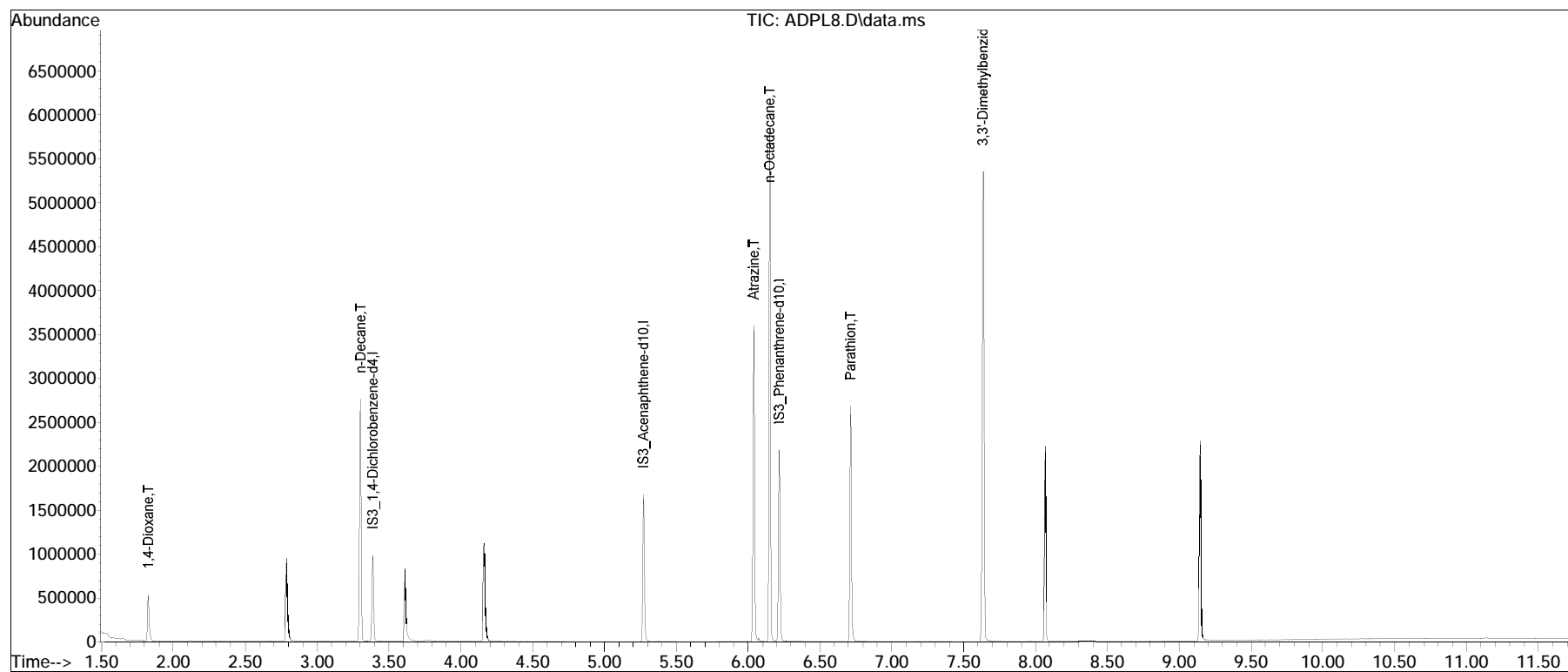
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
Data File : ADPL8.D
Acq On : 27 May 2023 12:08 am
Operator : SV124:jg
Sample : IL23,32,,ADPL100 Lot# 10056
Misc : WG1785590,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: May 31 17:16:58 2023
Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 30 10:21:43 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ADPL8.D Operator : SV124:jg
Date Inj'd : 5/27/2023 12:08 am Instrument : SV124
Sample : IL23,32,,ADPL100 Lot# 1005Quant Date : 5/31/2023 5:16 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ADPL7.D
 Acq On : 27 May 2023 12:25 am
 Operator : SV124:jg
 Sample : IL24,32,,ADPL50 Lot# 10057
 Misc : WG1785590,,
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 31 17:16:48 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.389	152	121630	40.000	ug/ml	0.00
Standard Area 2 = 121630			Recovery	=	100.00%	
86) IS3_Acenaphthene-d10	5.269	164	266297	40.000	ug/ml	0.00
Standard Area 2 = 266297			Recovery	=	100.00%	
100) IS3_Phenanthrene-d10	6.217	188	611911	40.000	ug/ml	0.00
Standard Area 2 = 611911			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.826	88	65989	45.384	ug/ml#	78
34) n-Decane	3.305	57	216938	47.479	ug/ml	96
87) Atrazine	6.037	200	134270	52.091	ug/ml	95
101) n-Octadecane	6.149	57	357792	52.525	ug/ml	94
102) Parathion	6.718	109	78286	47.358	ug/ml#	93
103) 3,3'-Dimethylbenzidine	7.632	212	596057	48.844	ug/ml	99

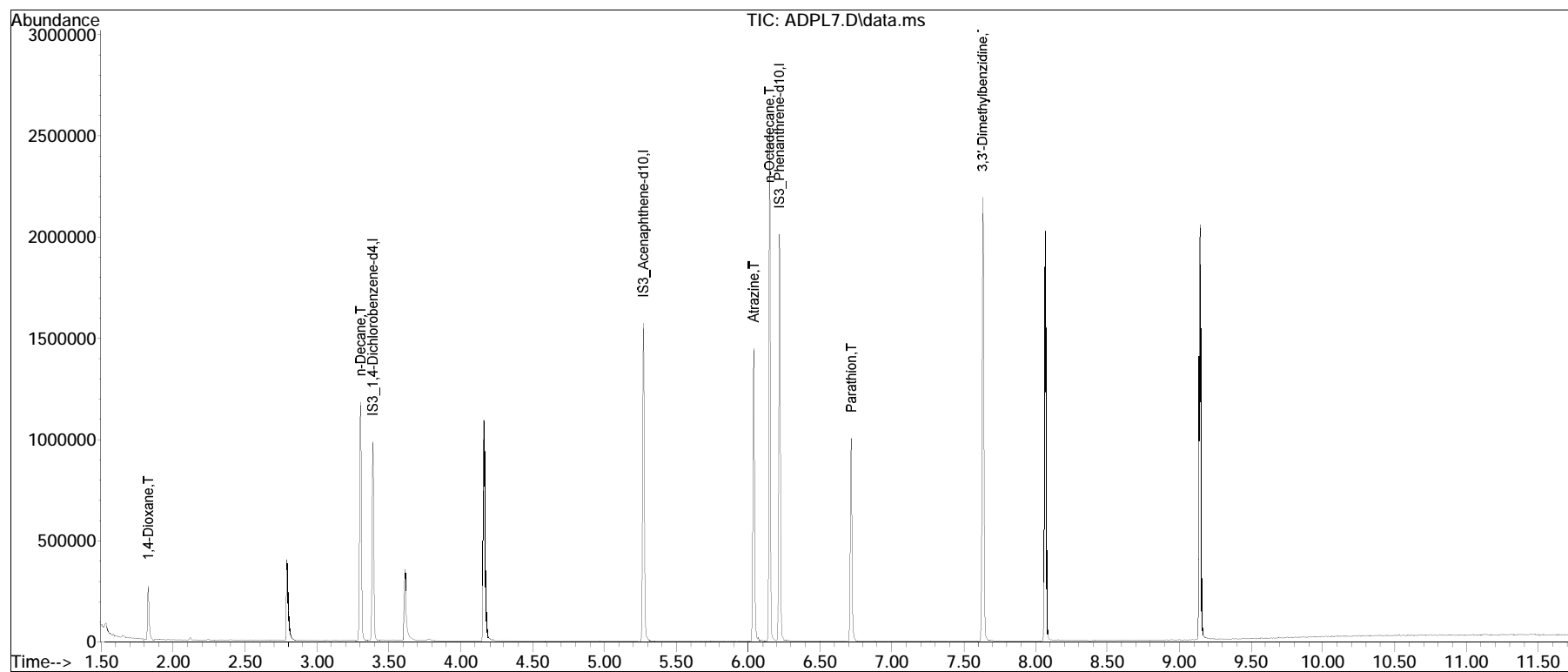
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
Data File : ADPL7.D
Acq On : 27 May 2023 12:25 am
Operator : SV124:jg
Sample : IL24,32,,ADPL50 Lot# 10057
Misc : WG1785590,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 31 17:16:48 2023
Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 30 10:21:43 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ADPL7.D Operator : SV124:jg
Date Inj'd : 5/27/2023 12:25 am Instrument : SV124
Sample : IL24,32,,ADPL50 Lot# 10057 Quant Date : 5/31/2023 5:16 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ADPL6.D
 Acq On : 27 May 2023 12:42 am
 Operator : SV124:jg
 Sample : IL25,32,,ADPL20 Lot# 10058
 Misc : WG1785590,,
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 31 17:16:36 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.392	152	112971	40.000	ug/ml	0.00
Standard Area 2 = 121630			Recovery	=	92.88%	
86) IS3_Acenaphthene-d10	5.266	164	261308	40.000	ug/ml	0.00
Standard Area 2 = 266297			Recovery	=	98.13%	
100) IS3_Phenanthrene-d10	6.217	188	604665	40.000	ug/ml	0.00
Standard Area 2 = 611911			Recovery	=	98.82%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.826	88	25120	18.601	ug/ml#	75
34) n-Decane	3.311	57	80743	19.349	ug/ml	94
87) Atrazine	6.037	200	48267	19.083	ug/ml	95
101) n-Octadecane	6.152	57	127654	18.965	ug/ml	93
102) Parathion	6.718	109	26878	18.632	ug/ml	96
103) 3,3'-Dimethylbenzidine	7.632	212	196183	18.186	ug/ml	98

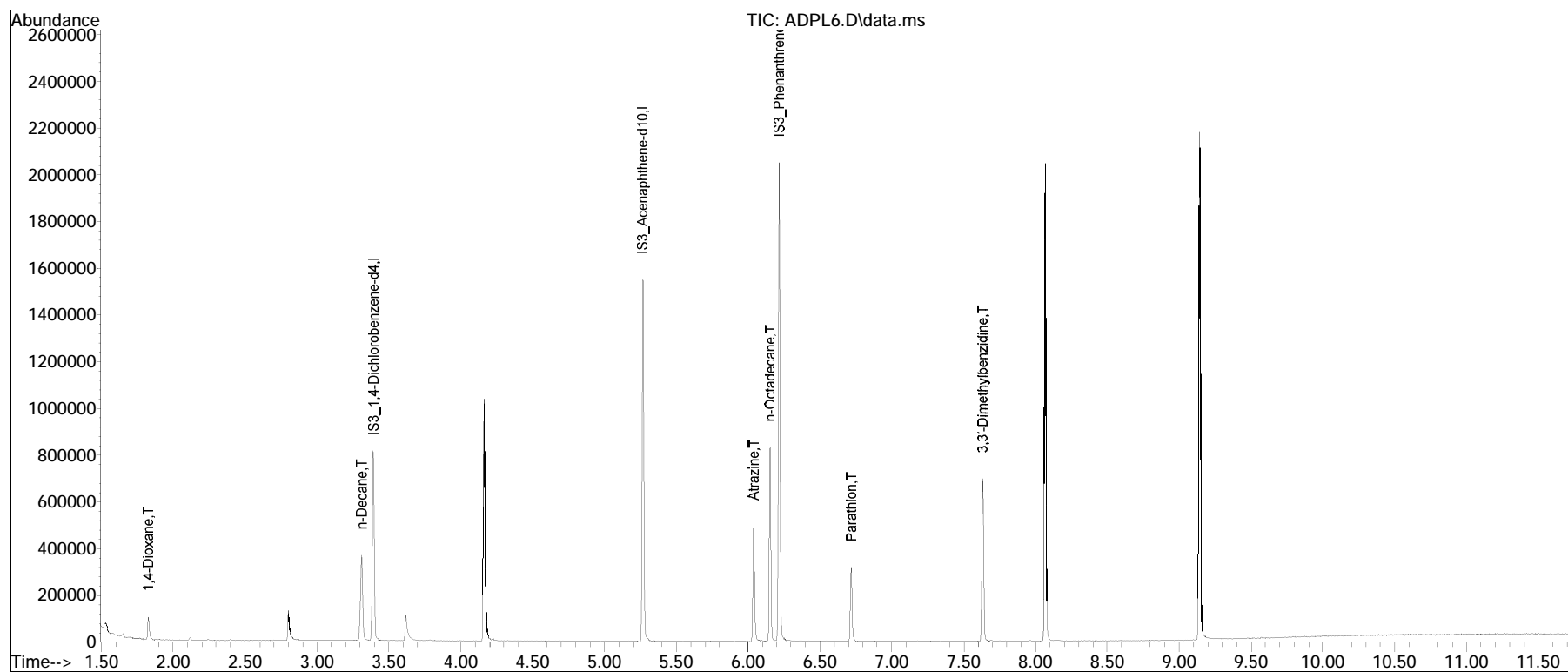
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
Data File : ADPL6.D
Acq On : 27 May 2023 12:42 am
Operator : SV124:jg
Sample : IL25,32,,ADPL20 Lot# 10058
Misc : WG1785590,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 31 17:16:36 2023
Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 30 10:21:43 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ADPL6.D Operator : SV124:jg
Date Inj'd : 5/27/2023 12:42 am Instrument : SV124
Sample : IL25,32,,ADPL20 Lot# 10058 Quant Date : 5/31/2023 5:16 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ADPL5.D
 Acq On : 27 May 2023 12:59 am
 Operator : SV124:jg
 Sample : IL26,32,,ADPL10 Lot# 10059
 Misc : WG1785590,,
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 31 17:16:25 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.389	152	120351	40.000	ug/ml	0.00
Standard Area 2 = 121630			Recovery	=	98.95%	
86) IS3_Acenaphthene-d10	5.266	164	265056	40.000	ug/ml	0.00
Standard Area 2 = 266297			Recovery	=	99.53%	
100) IS3_Phenanthrene-d10	6.217	188	609376	40.000	ug/ml	0.00
Standard Area 2 = 611911			Recovery	=	99.59%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.826	88	13542	9.413	ug/ml#	79
34) n-Decane	3.314	57	41073	9.521	ug/ml	96
87) Atrazine	6.040	200	22369	8.719	ug/ml	98
101) n-Octadecane	6.152	57	63447	9.353	ug/ml	98
102) Parathion	6.718	109	12143	9.570	ug/ml	89
103) 3,3'-Dimethylbenzidine	7.632	212	86112	9.058	ug/ml	99

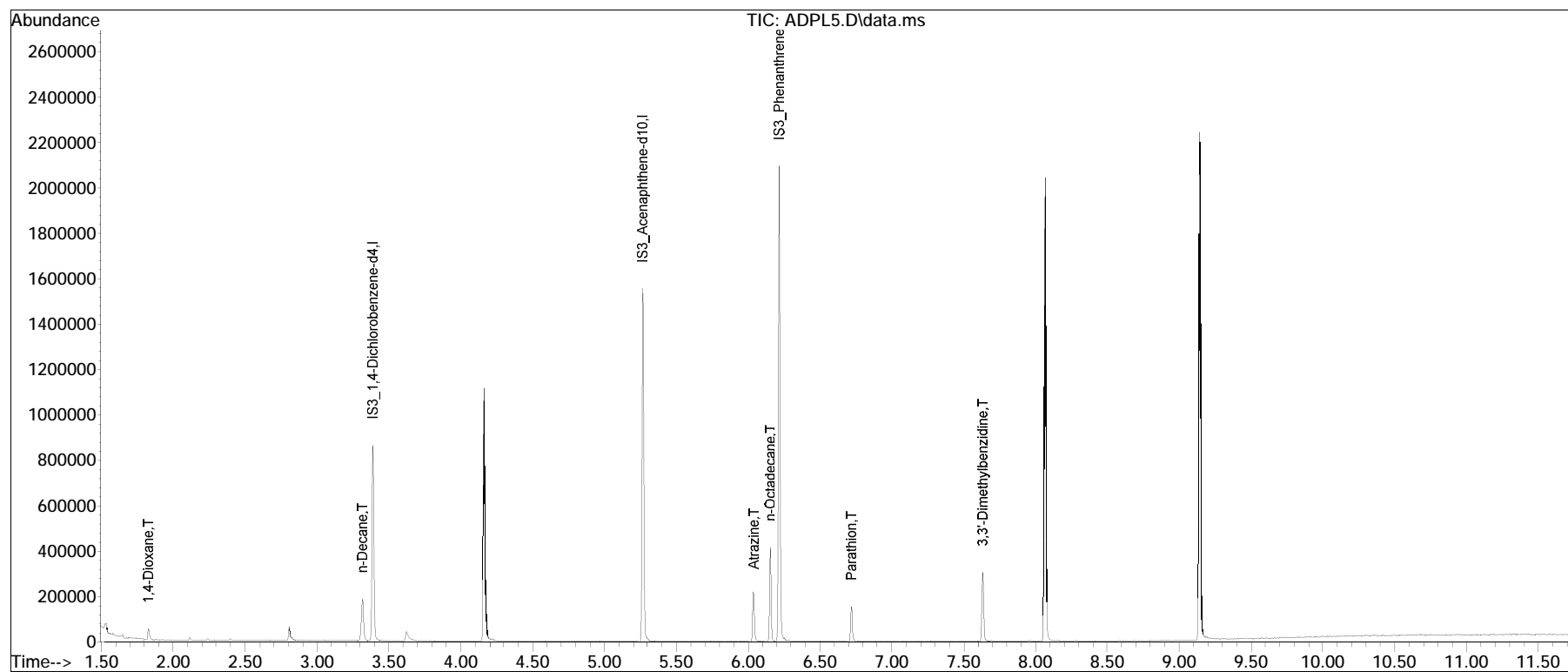
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
Data File : ADPL5.D
Acq On : 27 May 2023 12:59 am
Operator : SV124:jg
Sample : IL26,32,,ADPL10 Lot# 10059
Misc : WG1785590,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 31 17:16:25 2023
Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 30 10:21:43 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ADPL5.D Operator : SV124:jg
Date Inj'd : 5/27/2023 12:59 am Instrument : SV124
Sample : IL26,32,,ADPL10 Lot# 10059 Quant Date : 5/31/2023 5:16 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ADPL4.D
 Acq On : 27 May 2023 1:16 am
 Operator : SV124:jg
 Sample : IL27,32,,ADPL5 Lot# 10060
 Misc : WG1785590,,
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: May 31 17:16:13 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.392	152	115327	40.000	ug/ml	0.00
Standard Area 2 = 121630			Recovery	=	94.82%	
86) IS3_Acenaphthene-d10	5.269	164	268058	40.000	ug/ml	0.00
Standard Area 2 = 266297			Recovery	=	100.66%	
100) IS3_Phenanthrene-d10	6.217	188	602578	40.000	ug/ml	# 0.00
Standard Area 2 = 611911			Recovery	=	98.47%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.832	88	6800	4.932	ug/ml#	80
34) n-Decane	3.321	57	20201	5.149	ug/ml#	94
87) Atrazine	6.040	200	11036	4.253	ug/ml	96
101) n-Octadecane	6.155	57	28782	4.291	ug/ml	91
102) Parathion	6.721	109	5745	5.630	ug/ml	93
103) 3,3'-Dimethylbenzidine	7.632	212	36870	4.989	ug/ml	98

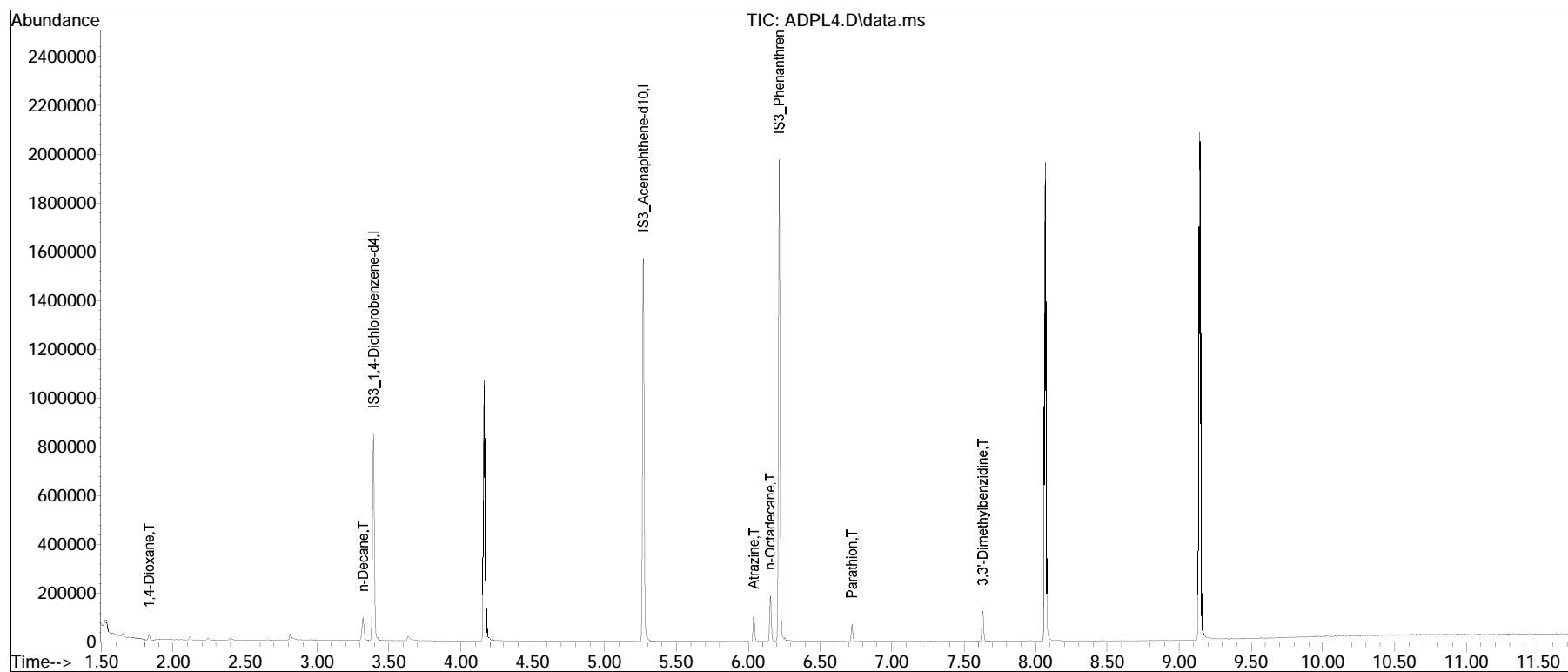
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
Data File : ADPL4.D
Acq On : 27 May 2023 1:16 am
Operator : SV124:jg
Sample : IL27,32,,ADPL5 Lot# 10060
Misc : WG1785590,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: May 31 17:16:13 2023
Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 30 10:21:43 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ADPL4.D Operator : SV124:jg
Date Inj'd : 5/27/2023 1:16 am Instrument : SV124
Sample : IL27,32,,ADPL5 Lot# 10060 Quant Date : 5/31/2023 5:16 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ADPL3.D
 Acq On : 27 May 2023 1:33 am
 Operator : SV124:jg
 Sample : IL28,32,,ADPL3 Lot# 10061
 Misc : WG1785590,,
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: May 31 17:16:02 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.392	152	115189	40.000	ug/ml	0.00
Standard Area 2 = 121630			Recovery	=	94.70%	
86) IS3_Acenaphthene-d10	5.266	164	274561	40.000	ug/ml	0.00
Standard Area 2 = 266297			Recovery	=	103.10%	
100) IS3_Phenanthrene-d10	6.217	188	632828	40.000	ug/ml	# 0.00
Standard Area 2 = 611911			Recovery	=	103.42%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.832	88	4351	3.160	ug/ml#	87
34) n-Decane	3.324	57	12073	3.298	ug/ml	92
87) Atrazine	6.040	200	6408	2.411	ug/ml	92
101) n-Octadecane	6.155	57	17745	2.519	ug/ml	96
102) Parathion	6.721	109	3623	4.170	ug/ml	96
103) 3,3'-Dimethylbenzidine	7.632	212	20525	3.517	ug/ml	97

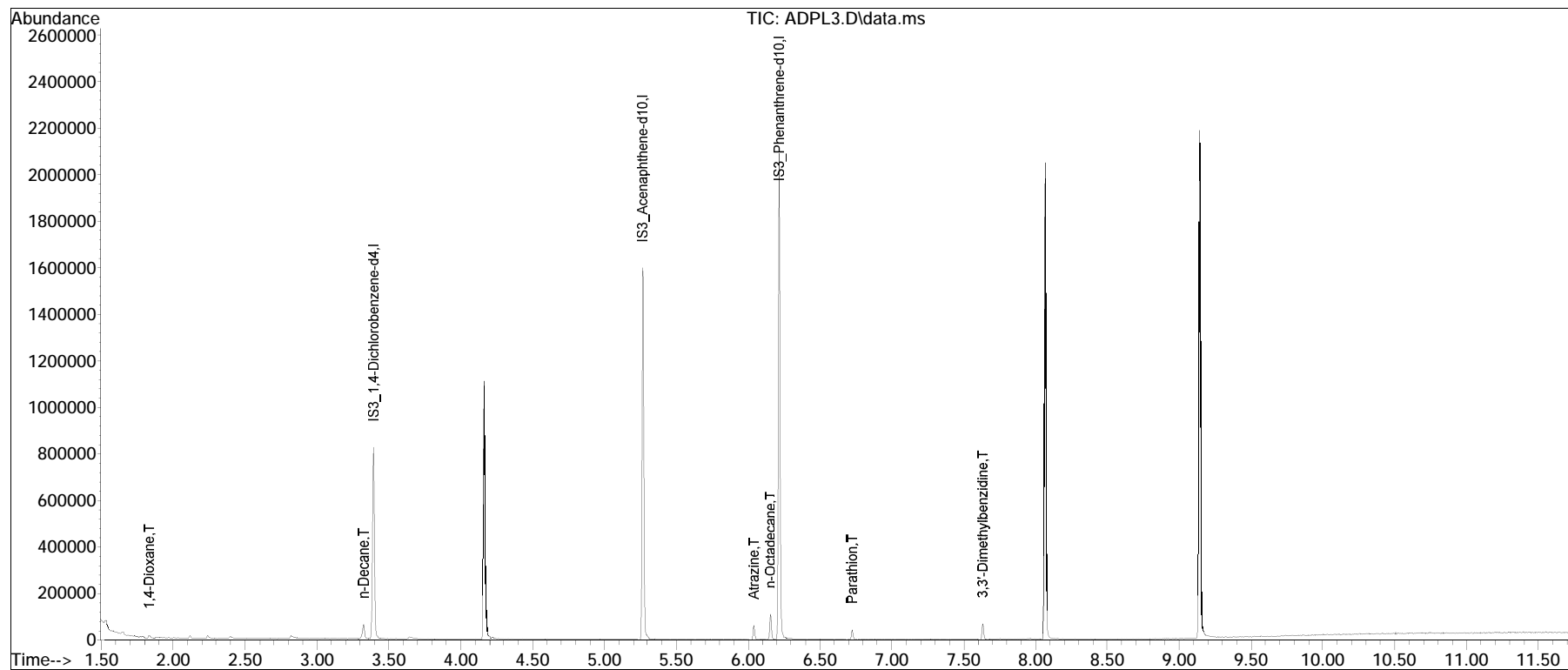
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
Data File : ADPL3.D
Acq On : 27 May 2023 1:33 am
Operator : SV124:jg
Sample : IL28,32,,ADPL3 Lot# 10061
Misc : WG1785590,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: May 31 17:16:02 2023
Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 30 10:21:43 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ADPL3.D Operator : SV124:jg
Date Inj'd : 5/27/2023 1:33 am Instrument : SV124
Sample : IL28,32,,ADPL3 Lot# 10061 Quant Date : 5/31/2023 5:16 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ADPL2.D
 Acq On : 27 May 2023 1:50 am
 Operator : SV124:jg
 Sample : IL29,32,,ADPL2 Lot# 10062
 Misc : WG1785590,,
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: May 31 17:15:50 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.392	152	115684	40.000	ug/ml	0.00
Standard Area 2 = 121630			Recovery	=	95.11%	
86) IS3_Acenaphthene-d10	5.266	164	262870	40.000	ug/ml	0.00
Standard Area 2 = 266297			Recovery	=	98.71%	
100) IS3_Phenanthrene-d10	6.217	188	586488	40.000	ug/ml	# 0.00
Standard Area 2 = 611911			Recovery	=	95.85%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.832	88	3379	2.443	ug/ml	92
34) n-Decane	3.327	57	7492	2.244	ug/ml#	94
87) Atrazine	6.043	200	4090	1.607	ug/ml	98
101) n-Octadecane	6.155	57	9999	1.532	ug/ml	86
102) Parathion	6.721	109	1927	3.231	ug/ml#	78
103) 3,3'-Dimethylbenzidine	7.632	212	10675	2.786	ug/ml	98

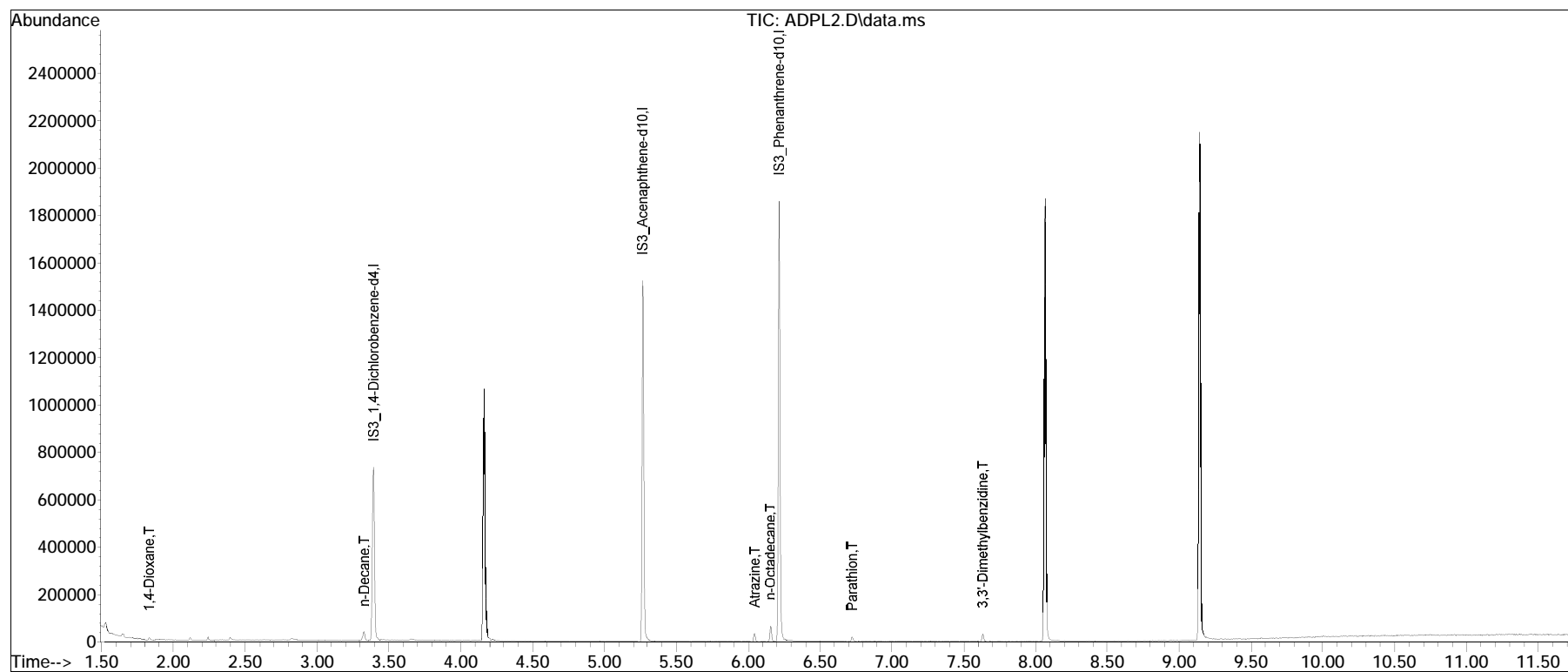
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
Data File : ADPL2.D
Acq On : 27 May 2023 1:50 am
Operator : SV124:jg
Sample : IL29,32,,ADPL2 Lot# 10062
Misc : WG1785590,,
ALS Vial : 31 Sample Multiplier: 1

Quant Time: May 31 17:15:50 2023
Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 30 10:21:43 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ADPL2.D Operator : SV124:jg
Date Inj'd : 5/27/2023 1:50 am Instrument : SV124
Sample : IL29,32,,ADPL2 Lot# 10062 Quant Date : 5/31/2023 5:15 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ADPL1.D
 Acq On : 27 May 2023 2:07 am
 Operator : SV124:jg
 Sample : IL30,32,,ADPL1 Lot# 10063
 Misc : WG1785590,,
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: May 31 17:15:26 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.392	152	122078	40.000	ug/ml	0.00
Standard Area 2 = 121630			Recovery	=	100.37%	
86) IS3_Acenaphthene-d10	5.266	164	275022	40.000	ug/ml	0.00
Standard Area 2 = 266297			Recovery	=	103.28%	
100) IS3_Phenanthrene-d10	6.217	188	623611	40.000	ug/ml	0.00
Standard Area 2 = 611911			Recovery	=	101.91%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.838	88	897	0.615	ug/ml#	31
34) n-Decane	3.330	57	1548	0.873	ug/ml#	81
87) Atrazine	6.043	200	1060	0.398	ug/ml#	38
101) n-Octadecane	6.158	57	2719	0.392	ug/ml	88
102) Parathion	6.724	109	390M2	2.202	ug/ml	
103) 3,3'-Dimethylbenzidine	7.632	212	935	1.927	ug/ml#	61

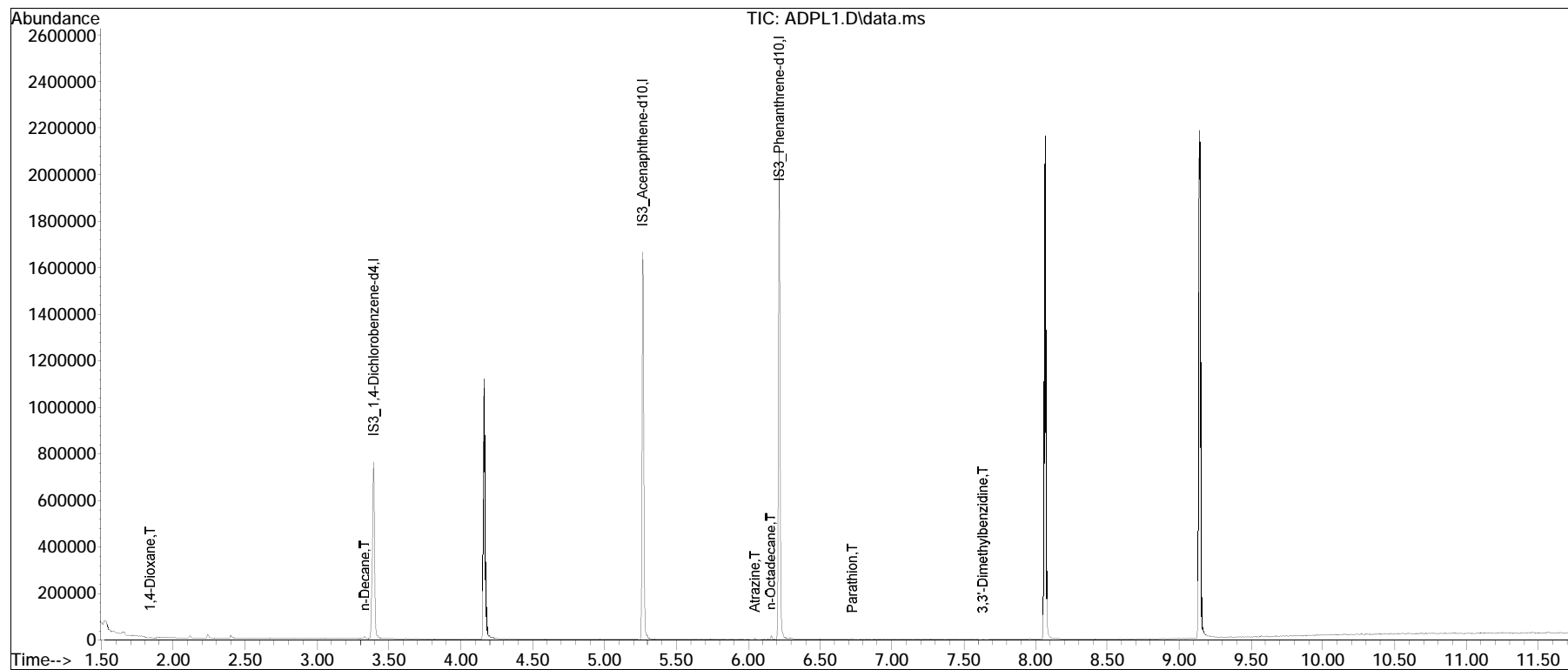
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
Data File : ADPL1.D
Acq On : 27 May 2023 2:07 am
Operator : SV124:jg
Sample : IL30,32,,ADPL1 Lot# 10063
Misc : WG1785590,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: May 31 17:15:26 2023
Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 30 10:21:43 2023
Response via : Initial Calibration

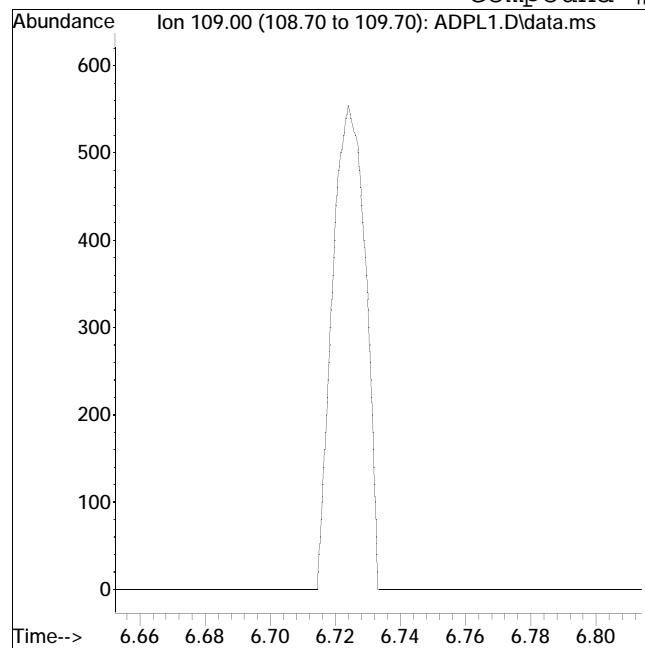
Sub List : ADPical_REV2 - ADP sublistal\AP9L7.D•



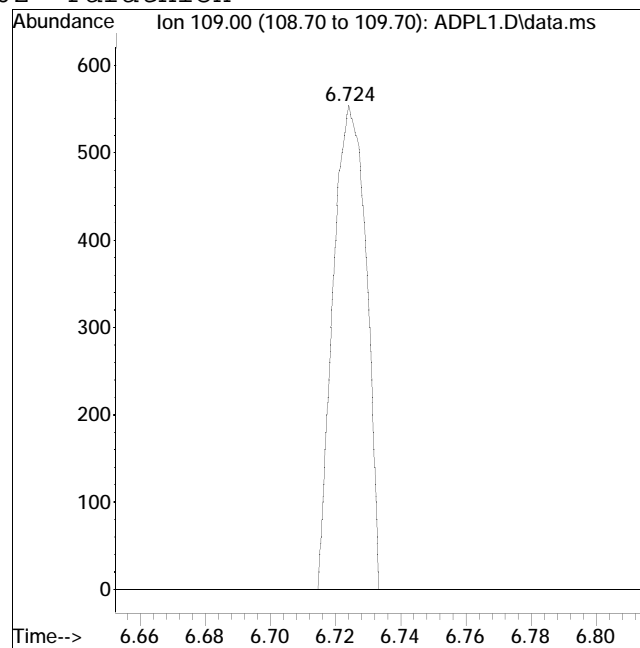
Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ADPL1.D Operator : SV124:jg
Date Inj'd : 5/27/2023 2:07 am Instrument : SV124
Sample : IL30,32,,ADPL1 Lot# 10063 Quant Date : 5/31/2023 5:15 pm

Compound #102: Parathion



Original Peak Response = 0



Manual Peak Response = 390 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\230526ical\
 Data File : ADPICV.D
 Acq On : 27 May 2023 2:24 am
 Operator : SV124:jg
 Sample : CQICV3,32,,ADPICV Lot# 10064
 Misc : WG1785590,,
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: May 30 10:17:34 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:12:43 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32 I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
33 T	1,4-Dioxane	0.478	0.413	13.6	91	0.00
34 T	n-Decane	* 50.000	43.291	13.4	87	0.00
86 I	IS3_Acenaphthene-d10	1.000	1.000	0.0	103	0.00
87 T	Atrazine	0.387	0.328	15.2	84	0.00
100 I	IS3_Phenanthrene-d10	1.000	1.000	0.0	100	0.00
101 T	n-Octadecane	0.445	0.381	14.4	82	0.00
102 T	Parathion	* 50.000	37.839	24.3#	78	0.00
103 T	3,3'-Dimethylbenzidine	* 50.000	41.808	16.4	84	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
 Data File : ADPICV.D
 Acq On : 27 May 2023 2:24 am
 Operator : SV124:jg
 Sample : CQICV3,32,,ADPICV Lot# 10064
 Misc : WG1785590,,
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: May 30 10:17:34 2023
 Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue May 30 10:12:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\230526ical\ABNL7.D
 : 2 - I:\8270\SV124\230526ical\ADPL7.D
 : 3 - I:\8270\SV124\230526ical\AP9L7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.389	152	116553	40.000	ug/ml	0.00
Standard Area 2 = 121630			Recovery	=	95.83%	
86) IS3_Acenaphthene-d10	5.266	164	274408	40.000	ug/ml	0.00
Standard Area 2 = 266297			Recovery	=	103.05%	
100) IS3_Phenanthrene-d10	6.217	188	614002	40.000	ug/ml	0.00
Standard Area 2 = 611911			Recovery	=	100.34%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.826	88	60199	43.206	ug/ml#	77
34) n-Decane	3.305	57	189334	43.291	ug/ml#	95
87) Atrazine	6.034	200	112643	42.409	ug/ml	98
101) n-Octadecane	6.149	57	292766	42.833	ug/ml	95
102) Parathion	6.718	109	60973	37.839	ug/ml	95
103) 3,3'-Dimethylbenzidine	7.632	212	503664	41.808	ug/ml	99

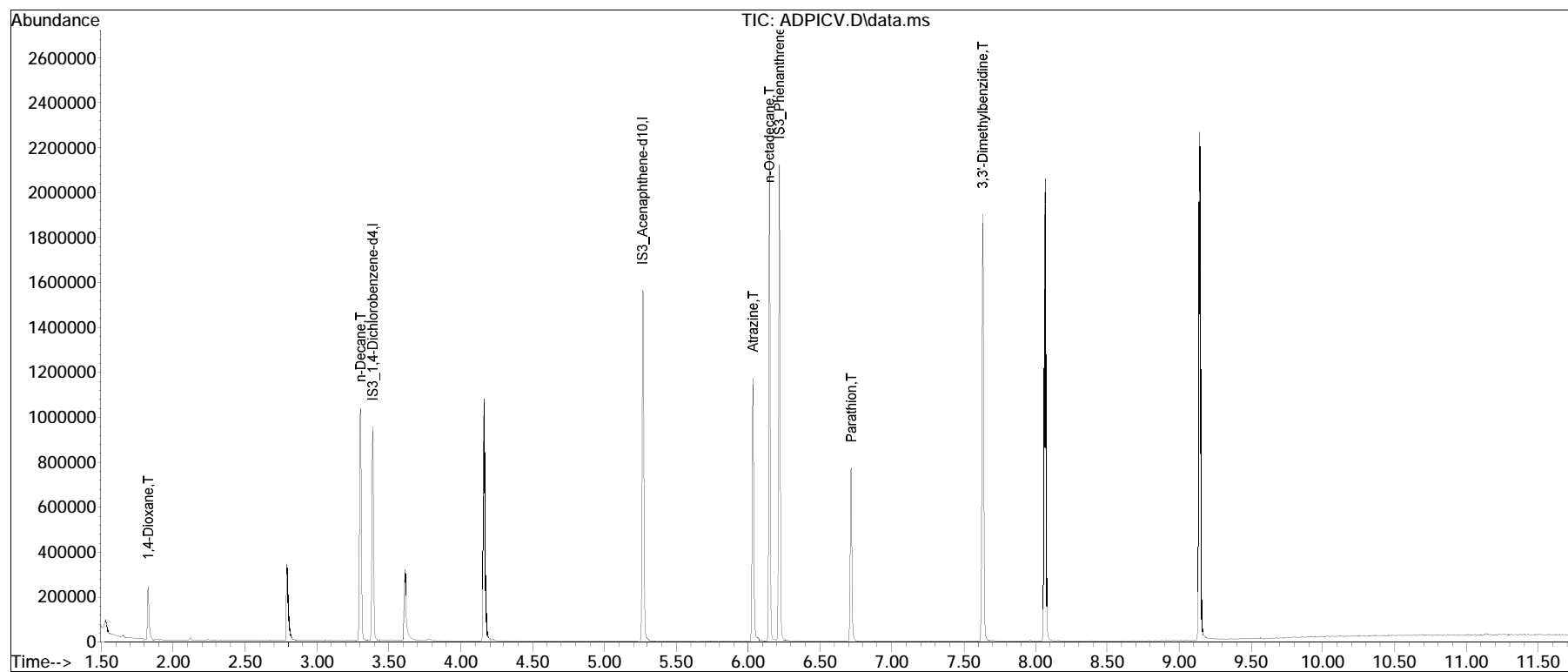
(#) = qualifier out of range (m) = manual integration (+) = signals summed

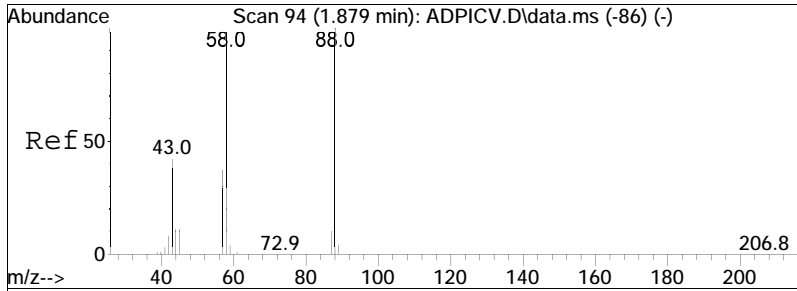
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230526ical\
Data File : ADPICV.D
Acq On : 27 May 2023 2:24 am
Operator : SV124:jg
Sample : CQICV3,32,,ADPICV Lot# 10064
Misc : WG1785590,,
ALS Vial : 33 Sample Multiplier: 1

Quant Time: May 30 10:17:34 2023
Quant Method : I:\8270\SV124\230526ical\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue May 30 10:12:43 2023
Response via : Initial Calibration

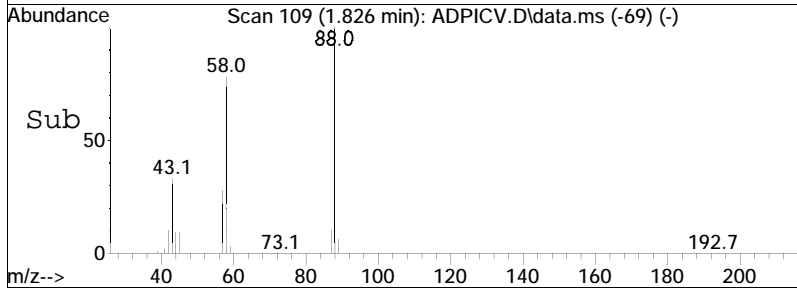
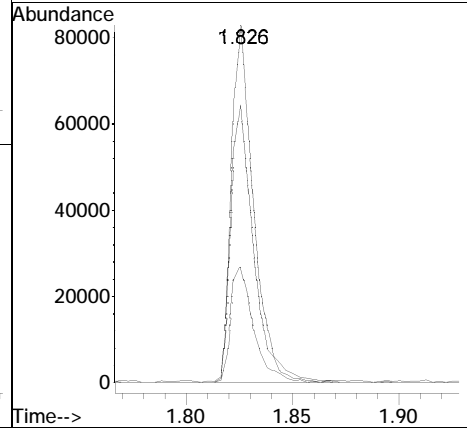
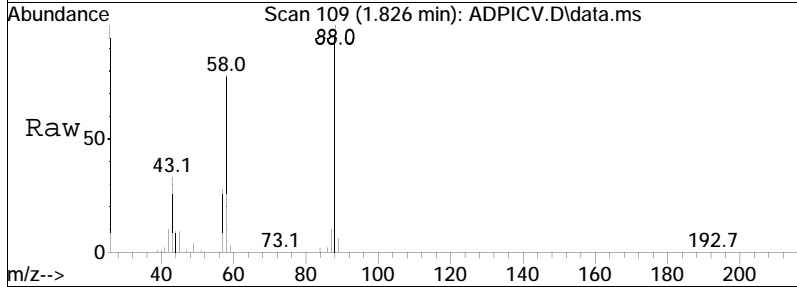
Sub List : ADPical_REV2 - ADP sublistal\AP9L7.D•

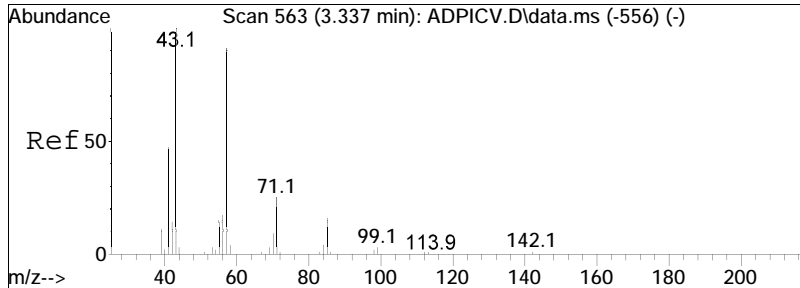




#33
 1,4-Dioxane
 Concen: 43.21 ug/ml
 RT: 1.826 min Scan# 109
 Delta R.T. -0.000 min
 Lab File: ADPICV.D
 Acq: 27 May 2023 2:24 am

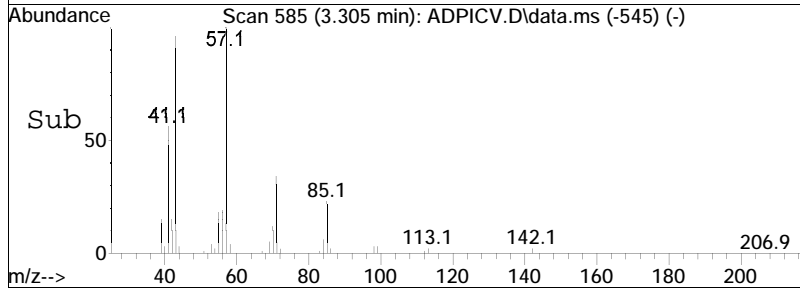
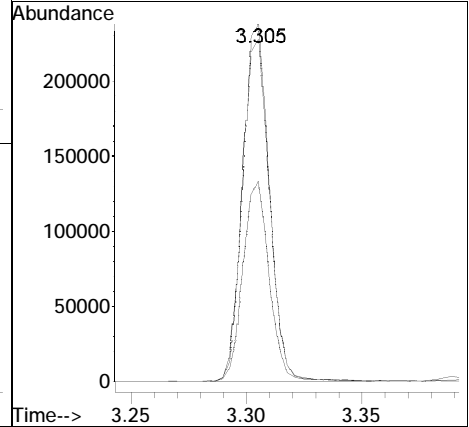
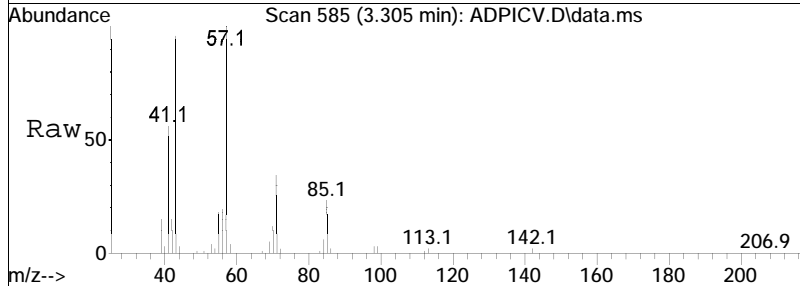
Tgt Ion	Ratio	Lower	Upper
88	100		
58	77.1	44.8	67.2#
43	33.5	22.4	33.6

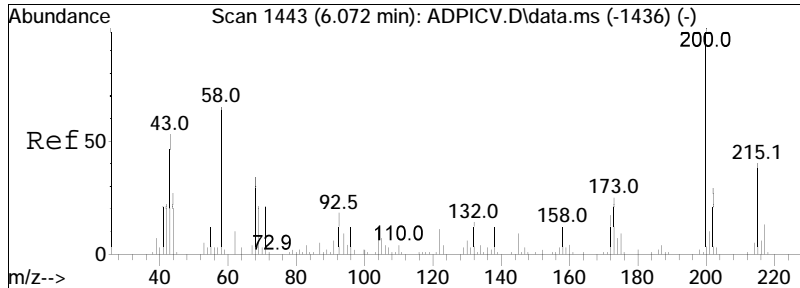




#34
 n-Decane
 Concen: 43.29 ug/ml
 RT: 3.305 min Scan# 585
 Delta R.T. 0.000 min
 Lab File: ADPICV.D
 Acq: 27 May 2023 2:24 am

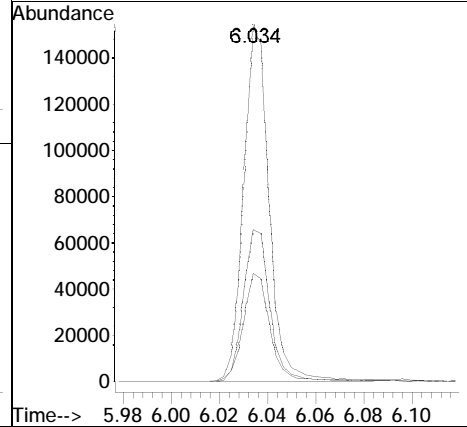
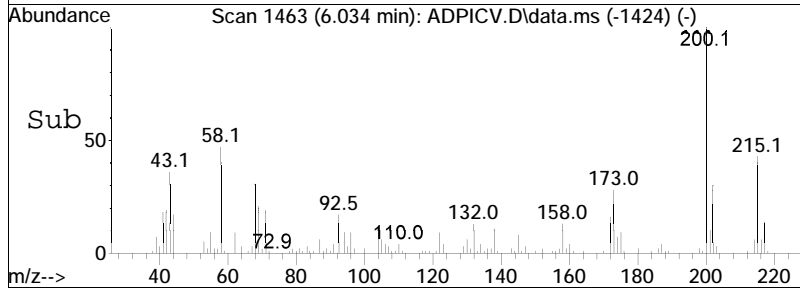
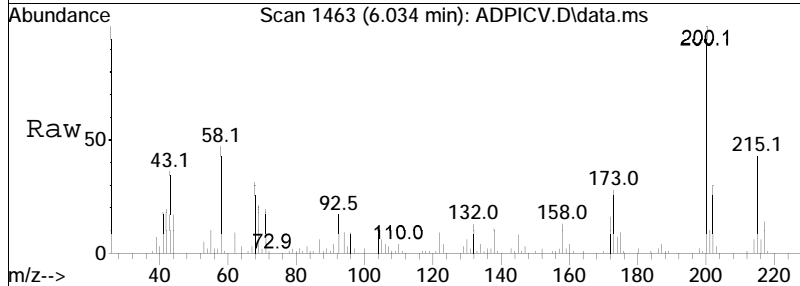
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
57	100		
43	97.7	77.9	116.9
41	55.5	36.9	55.3#

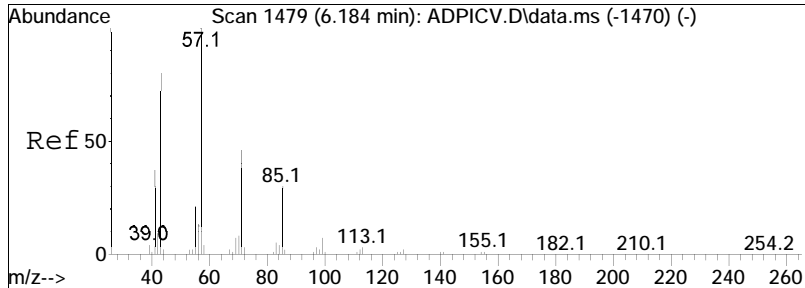




#87
 Atrazine
 Concen: 42.41 ug/ml
 RT: 6.034 min Scan# 1463
 Delta R.T. -0.003 min
 Lab File: ADPICV.D
 Acq: 27 May 2023 2:24 am

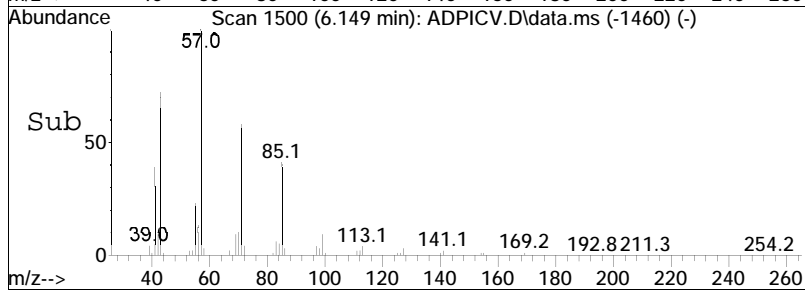
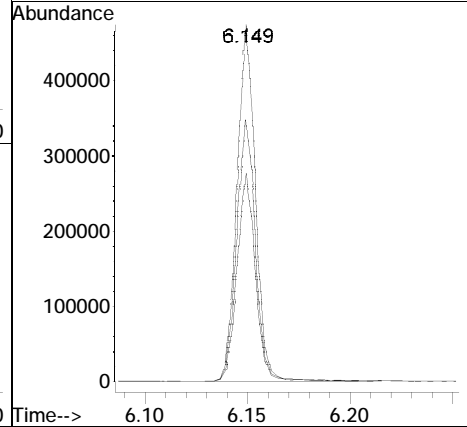
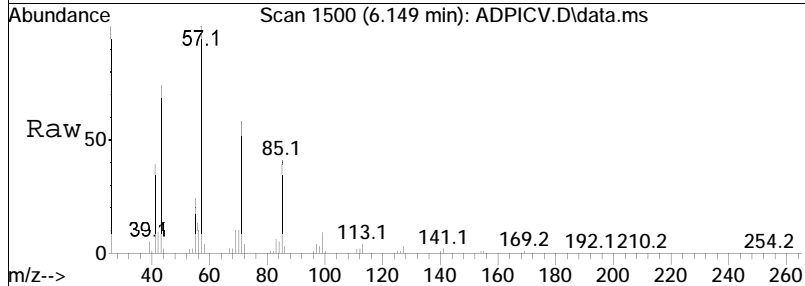
Tgt Ion	Ratio	Lower	Upper
200	100		
202	31.8	24.9	37.3
215	44.6	34.0	51.0

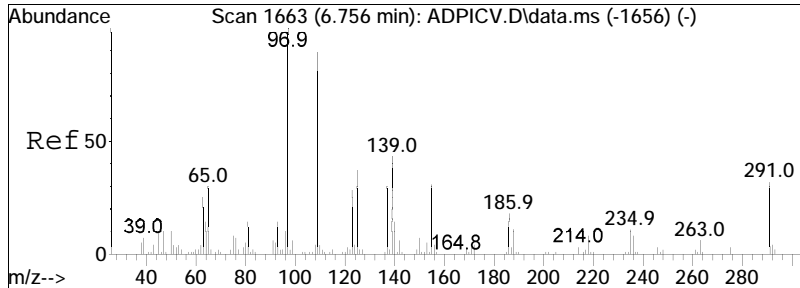




#101
 n-Octadecane
 Concen: 42.83 ug/ml
 RT: 6.149 min Scan# 1500
 Delta R.T. 0.000 min
 Lab File: ADPICV.D
 Acq: 27 May 2023 2:24 am

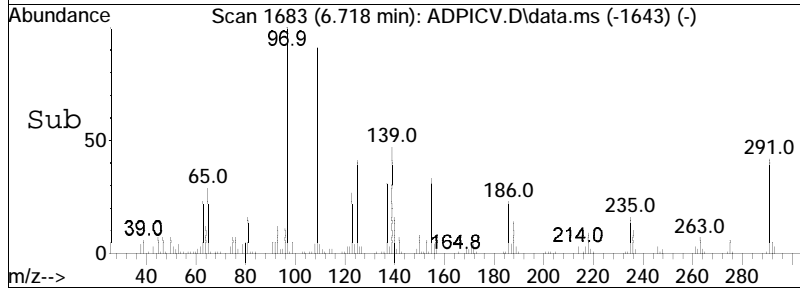
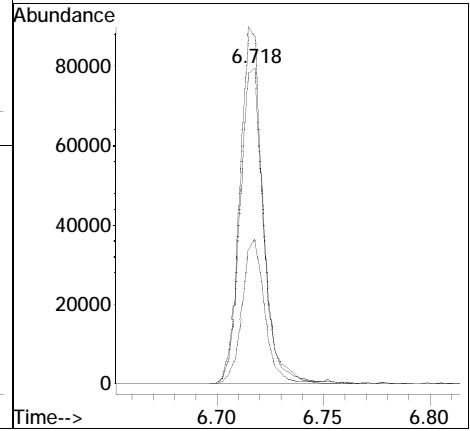
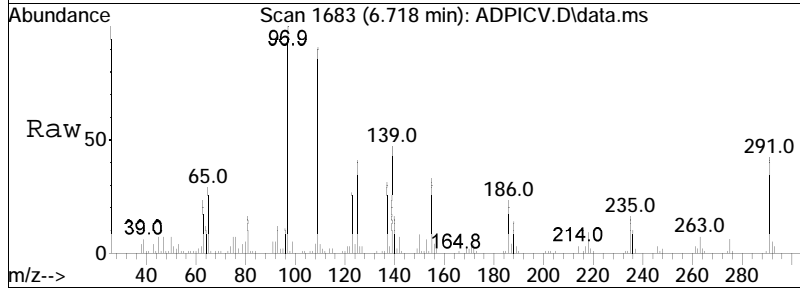
Tgt Ion	Resp	Lower	Upper
57	100		
43	74.2	56.7	85.1
71	58.0	42.8	64.2

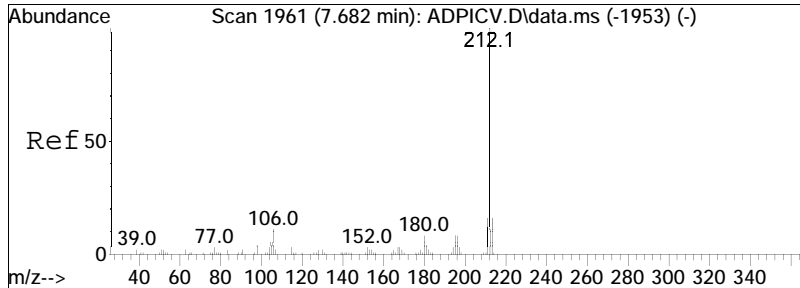




#102
 Parathion
 Concen: 37.84 ug/ml
 RT: 6.718 min Scan# 1683
 Delta R.T. -0.000 min
 Lab File: ADPICV.D
 Acq: 27 May 2023 2:24 am

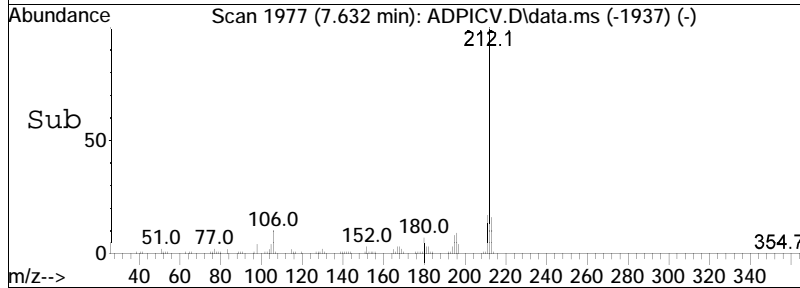
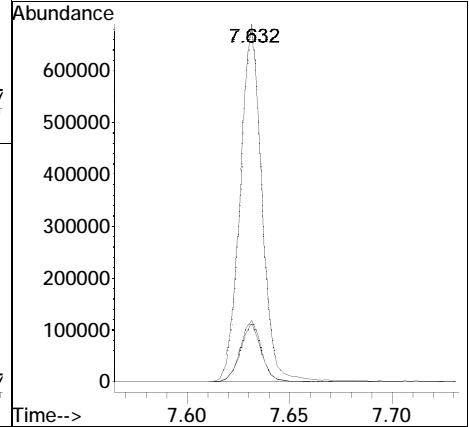
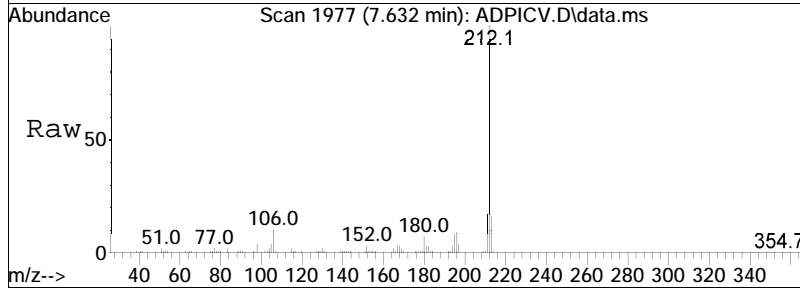
Tgt Ion	109	Resp:	60973
Ion Ratio	Lower	Upper	
109	100		
97	110.6	85.8	128.8
291	44.3	29.8	44.8





#103
 3,3'-Dimethylbenzidine
 Concen: 41.81 ug/ml
 RT: 7.632 min Scan# 1977
 Delta R.T. -0.000 min
 Lab File: ADPICV.D
 Acq: 27 May 2023 2:24 am

Tgt Ion	Ratio	Lower	Upper
212	100		
211	16.8	13.5	20.3
213	16.2	13.4	20.0



Manual Integration Report

Data Path : I:\8270\SV124\230526ical\ QMethod : FS230526SV124.m
Data File : ADPICV.D Operator : SV124:jg
Date Inj'd : 5/27/2023 2:24 am Instrument : SV124
Sample : CQICV3,32,,ADPICV Lot# 100Quant Date : 5/30/2023 10:17 am

There are no manual integrations or false positives in this file.

Method Path : I:\8270\SV124\230526ical\
 Method File : FS230526SV124.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed May 31 17:31:38 2023

COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
3 T Pyridine	L	ug/ml	50.0	47.785	-4.4	2.00	2.192	9.6
13 T Benzyl alcohol	Q	ug/ml	50.0	51.311	2.6	2.00	2.181	9.1
29 T Acetophenone	Q	ug/ml	50.0	50.544	1.1	1.00	1.147	14.7
34 T n-Decane	L	ug/ml	50.0	47.479	-5.0	1.00	0.873	-12.7
37 T Benzoic Acid	L	ug/ml	50.0	48.183	-3.6	5.00	6.206	24.1
60 T Caprolactam	L	ug/ml	50.0	46.743	-6.5	3.00	3.581	19.4
66 T 2,4-Dinitrophenol	L	ug/ml	50.0	46.236	-7.5	5.00	6.222	24.4
68 T 2,4-Dinitrotoluene	Q	ug/ml	50.0	50.834	1.7	2.00	2.216	10.8
69 T 4-Nitrophenol	Q	ug/ml	50.0	51.514	3.0	3.00	2.971	-1.0
75 T 4-Nitroaniline	L	ug/ml	50.0	47.786	-4.4	2.00	2.491	24.6
82 T Pentachlorophenol	L	ug/ml	50.0	46.068	-7.9	3.00	3.658	21.9
84 T Dichloran	L	ug/ml	50.0	44.639	-10.7	3.00	3.742	24.7
94 T Benzidine	Q	ug/ml	50.0	54.127	8.3	2.00	1.961	-1.9
97 T Butyl benzyl phthalate	Q	ug/ml	50.0	54.304	8.6	3.00	2.756	-8.1
99 T Diphenamid	Q	ug/ml	50.0	52.677	5.4	1.00	1.074	7.4
102 T Parathion	Q	ug/ml	50.0	47.358	-5.3	5.00	5.630	12.6
103 T 3,3'-Dimethylbenzidine	Q	ug/ml	50.0	48.844	-2.3	3.00	3.517	17.2
108 T Bis(2-ethylhexyl)phthalate	Q	ug/ml	50.0	51.816	3.6	2.00	2.542	27.1
109 T Di-n-octylphthalate	L	ug/ml	50.0	50.654	1.3	3.00	3.768	25.6

Calibration Correlation Report

COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
3 T Pyridine	Linear	0.997962	0.000000	1.31624	-0.0377992
13 T Benzyl alcohol	Quadratic	0.999789	0.059532	0.97897	-0.0260723
29 T Acetophenone	Quadratic	0.999751	0.050352	1.76563	-0.0259626
34 T n-Decane	Linear	0.999090	0.000000	1.51988	-0.020491
37 T Benzoic Acid	Linear	0.996614	0.000000	0.277448	-0.0381816
60 T Caprolactam	Linear	0.997701	0.000000	0.172707	-0.010122
66 T 2,4-Dinitrophenol	Linear	0.995435	0.000000	0.233056	-0.0201399
68 T 2,4-Dinitrotoluene	Quadratic	0.999606	0.031609	0.392154	-0.00638351
69 T 4-Nitrophenol	Quadratic	0.999577	0.022355	0.260367	-0.00659962
75 T 4-Nitroaniline	Linear	0.995501	0.000000	0.365706	-0.0129771
82 T Pentachlorophenol	Linear	0.995747	0.000000	0.351844	-0.0187515
84 T Dichloran	Linear	0.995576	0.000000	0.201082	-0.0109824
94 T Benzidine	Quadratic	0.998244	0.093601	0.588344	-0.00317271
97 T Butyl benzyl phthalate	Quadratic	0.998518	0.062119	0.454678	-0.00247288
99 T Diphenamid	Quadratic	0.995590	0.041036	0.412509	-0.0016172
102 T Parathion	Quadratic	0.998765	0.008458	0.102295	-0.00503169
103 T 3,3'-Dimethylbenzidine	Quadratic	0.998859	0.045261	0.77174	-0.0357782
108 T Bis(2-ethylhexyl)phthalate	Quadratic	0.996845	0.026159	1.06623	-0.03356
109 T Di-n-octylphthalate	Linear	0.996039	0.000000	1.76832	-0.0854524

Continuing Calibration

Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV103
Lab File ID : ADP0718N
Sample No : WG1804789-5
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/18/23 20:54
Init. Calib. Date(s) : 05/15/23 05/16/23
Init. Calib. Times : 21:20 13:32

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	79	0
1,4-Dioxane	0.464	0.467	-	-0.6	20	85	0
n-Decane	1.295	1.257	-	2.9	20	76	0
IS3_Acenaphthene-d10	1	1	-	0	20	85	0
Atrazine	0.32	0.446	-	-39.4*	20	101	0
IS3_Phenanthrene-d10	1	1	-	0	20	83	0
n-Octadecane	0.402	0.467	-	-16.2	20	89	0
Parathion	50	82.947	-	-65.9*	20	144	0
3,3'-Dimethylbenzidine	50	67.557	-	-35.1*	20	103	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV103
 Lab File ID : ABN0718N
 Sample No : WG1804789-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/18/23 21:19
 Init. Calib. Date(s) : 05/15/23 05/16/23
 Init. Calib. Times : 21:20 13:32

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	154	0
n-Nitrosodimethylamine	0.713	0.647	-	9.3	20	131	0
Pyridine	1.184	1.117	-	5.7	20	135	0
2-Fluorophenol	1.115	1.065	-	4.5	20	137	0
Aniline	1.818	1.689	-	7.1	20	132	0
2-Chlorophenol	1.296	1.22	-	5.9	20	134	0
Phenol-d6	1.39	1.304	-	6.2	20	134	0
Phenol	1.587	1.376	-	13.3	20	124	0
Bis(2-chloroethyl)ether	1.121	1.056	-	5.8	20	137	0
1,3-Dichlorobenzene	1.515	1.361	-	10.2	20	133	0
1,4-Dichlorobenzene	1.548	1.396	-	9.8	20	135	0
1,2-Dichlorobenzene	1.469	1.326	-	9.7	20	132	0
Benzyl alcohol	0.883	0.972	-	-10.1	20	150	0
Bis(2-chloroisopropyl)ethe	1.794	1.237	-	31*	20	99	0
2-Methylphenol	1.107	1.052	-	5	20	134	0
Hexachloroethane	0.531	0.545	-	-2.6	20	150	0
n-Nitrosodi-n-propylamine	0.773	0.808	-	-4.5	20	146	0
3-Methylphenol/4-Methylphe	1.167	1.131	-	3.1	20	136	0
Nitrobenzene-d5	1.153	1.248	-	-8.2	20	150	0
Nitrobenzene	1.164	1.232	-	-5.8	20	146	0
Isophorone	2.108	2.154	-	-2.2	20	140	0
2-Nitrophenol	0.569	0.648	-	-13.9	20	153	0
2,4-Dimethylphenol	1.194	1.12	-	6.2	20	130	0
Bis(2-chloroethoxy)methane	1.369	1.351	-	1.3	20	141	0
2,4-Dichlorophenol	1.058	1.031	-	2.6	20	133	0
1,2,4-Trichlorobenzene	1.203	1.121	-	6.8	20	137	0
IS1_Naphthalene-d8	1	1	-	0	20	152	0
Naphthalene	1.052	0.922	-	12.4	20	128	0
Benzoic Acid	50	57.673	-	-15.3	20	178	0
4-Chloroaniline	0.109	0.109	-	0	20	142	0
Hexachlorobutadiene	0.174	0.172	-	1.1	20	146	0
p-Chloro-m-cresol	0.264	0.267	-	-1.1	20	138	0
2-Methylnaphthalene	0.655	0.592	-	9.6	20	129	0
1-Methylnaphthalene	0.205	0.198	-	3.4	20	139	0
Hexachlorocyclopentadiene	0.189	0.165	-	12.7	20	123	0
2,4,6-Trichlorophenol	0.187	0.201	-	-7.5	20	142	0
2,4,5-Trichlorophenol	0.211	0.218	-	-3.3	20	140	0
2-Fluorobiphenyl	0.752	0.693	-	7.8	20	132	0
2-Chloronaphthalene	0.645	0.588	-	8.8	20	130	0
2-Nitroaniline	0.202	0.208	-	-3	20	138	0
1,4-Dinitrobenzene	0.096	0.093	-	3.1	20	140	0
1,3-Dinitrobenzene	50	45.646	-	8.7	20	135	0
Dimethyl phthalate	0.742	0.703	-	5.3	20	131	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV103
 Lab File ID : ABN0718N
 Sample No : WG1804789-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/18/23 21:19
 Init. Calib. Date(s) : 05/15/23 05/16/23
 Init. Calib. Times : 21:20 13:32

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	0.991	0.996	-	-0.5	20	138	0
2,6-Dinitrotoluene	0.152	0.156	-	-2.6	20	134	0
1,2-Dinitrobenzene	0.067	0.066	-	1.5	20	131	0
IS1_Acenaphthene-d10	1	1	-	0	20	151	0
3-Nitroaniline	0.352	0.337	-	4.3	20	131	0
Acenaphthene	1.16	1.064	-	8.3	20	135	0
2,4-Dinitrophenol	50	62.143	-	-24.3*	20	195	0
Dibenzofuran	1.799	1.57	-	12.7	20	127	0
2,4-Dinitrotoluene	0.384	0.406	-	-5.7	20	138	0
4-Nitrophenol	0.229	0.265	-	-15.7	20	156	0
2,3,5,6-Tetrachlorophenol	0.313	0.335	-	-7	20	142	0
2,3,4,6-Tetrachlorophenol	0.324	0.336	-	-3.7	20	142	0
Diethyl phthalate	1.401	1.356	-	3.2	20	133	0
Fluorene	1.395	1.27	-	9	20	129	0
4-Chlorophenyl phenyl ethe	0.659	0.594	-	9.9	20	130	0
4-Nitroaniline	0.357	0.333	-	6.7	20	129	0
4,6-Dinitro-o-cresol	50	61.646	-	-23.3*	20	195	0
NDPA/DPA	1.192	1.065	-	10.7	20	125	0
Azobenzene	1.196	1.242	-	-3.8	20	144	0
2,4,6-Tribromophenol	0.213	0.221	-	-3.8	20	141	0
4-Bromophenyl phenyl ether	0.392	0.361	-	7.9	20	131	0
Hexachlorobenzene	0.479	0.438	-	8.6	20	133	0
Pentachlorophenol	50	44.94	-	10.1	20	138	0
IS1_Phenanthrene-d10	1	1	-	0	20	151	0
Phenanthrene	1.102	0.946	-	14.2	20	126	0
Anthracene	1.086	0.967	-	11	20	127	0
Carbazole	1.017	0.908	-	10.7	20	126	0
Di-n-butylphthalate	1.092	1.187	-	-8.7	20	139	0
Fluoranthene	1.157	1.079	-	6.7	20	131	0
Benzidine	0.729	0.693	-	4.9	20	123	0
Pyrene	1.244	1.141	-	8.3	20	130	0
4-Terphenyl-d14	0.931	0.807	-	13.3	20	123	0
Butyl benzyl phthalate	50	50.51	-	-1	20	149	0
IS1_Chrysene-d12	1	1	-	0	20	152	0
Benzo(a)anthracene	1.325	1.151	-	13.1	20	127	0
3,3'-Dichlorobenzidine	0.484	0.479	-	1	20	132	0
Chrysene	1.326	1.088	-	17.9	20	125	0
Bis(2-ethylhexyl)phthalate	50	47.655	-	4.7	20	142	0
Di-n-octylphthalate	50	48.145	-	3.7	20	146	0
Benzo(b)fluoranthene	1.286	1.119	-	13	20	123	0
Benzo(k)fluoranthene	1.32	1.134	-	14.1	20	121	0
Benzo(a)pyrene	1.109	1.004	-	9.5	20	124	0
IS1_Perylene-d12	1	1	-	0	20	147	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Instrument ID : SV103	Calibration Date : 07/18/23 21:19
Lab File ID : ABN0718N	Init. Calib. Date(s) : 05/15/23 05/16/23
Sample No : WG1804789-3	Init. Calib. Times : 21:20 13:32
Channel :	

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.853	0.854	-	-0.1	20	131	0
Dibenzo(a,h)anthracene	1.023	0.927	-	9.4	20	121	0
Benzo(ghi)perylene	1.042	0.936	-	10.2	20	122	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV103
Lab File ID : AP90718N
Sample No : WG1804789-4
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/18/23 21:42
Init. Calib. Date(s) : 05/15/23 05/16/23
Init. Calib. Times : 21:20 13:32

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
Benzaldehyde	0.86	0.848	-	1.4	20	80	0
Acetophenone	1.741	1.917	-	-10.1	20	87	0
m-Toluidine	1.485	1.559	-	-5	20	79	0
2-Chloroaniline	1.57	1.711	-	-9	20	85	0
IS2_Naphthalene-d8	1	1	-	0	20	79	0
a-Terpineol	0.231	0.272	-	-17.7	20	87	0
3-Chloroaniline	0.115	0.137	-	-19.1	20	91	0
2,6-Dichlorophenol	0.251	0.309	-	-23.1*	20	87	0
1-chloro-2-nitrobenzene	0.121	0.152	-	-25.6*	20	92	0
Caprolactam	0.131	0.147	-	-12.2	20	78	0
1,2,4,5-Tetrachlorobenzene	0.302	0.348	-	-15.2	20	89	0
Biphenyl	0.823	0.844	-	-2.6	20	78	0
IS2_Acenaphthene-d10	1	1	-	0	20	75	0
Dichloran	0.144	0.22	-	-52.8*	20	109	0
Pentachloronitrobenzene	0.135	0.201	-	-48.9*	20	102	0
IS2_Phenanthrene-d10	1	1	-	0	20	77	0
Diphenamid	0.416	0.564	-	-35.6*	20	93	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV124
 Lab File ID : ABN0719
 Sample No : WG1804924-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/19/23 07:10
 Init. Calib. Date(s) : 05/26/23 05/27/23
 Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	65	0
n-Nitrosodimethylamine	0.698	0.8	-	-14.6	20	70	0
Pyridine	50	55.863	-	-11.7	20	76	0
2-Fluorophenol	1.072	1.306	-	-21.8*	20	73	0
Aniline	1.81	2.164	-	-19.6	20	74	0
2-Chlorophenol	1.267	1.498	-	-18.2	20	72	0
Phenol-d6	1.4	1.642	-	-17.3	20	71	0
Phenol	1.514	1.682	-	-11.1	20	66	0
Bis(2-chloroethyl)ether	1.221	1.331	-	-9	20	68	0
1,3-Dichlorobenzene	1.466	1.598	-	-9	20	70	0
1,4-Dichlorobenzene	1.535	1.643	-	-7	20	69	0
1,2-Dichlorobenzene	1.47	1.578	-	-7.3	20	70	0
Benzyl alcohol	50	57.645	-	-15.3	20	73	0
Bis(2-chloroisopropyl)ethe	2.086	2.903	-	-39.2*	20	85	0
2-Methylphenol	1.186	1.316	-	-11	20	69	0
Hexachloroethane	0.595	0.678	-	-13.9	20	71	0
n-Nitrosodi-n-propylamine	0.943	1.137	-	-20.6*	20	72	0
3-Methylphenol/4-Methylphe	1.206	1.404	-	-16.4	20	71	0
Nitrobenzene-d5	1.366	1.619	-	-18.5	20	70	0
Nitrobenzene	1.392	1.607	-	-15.4	20	70	0
Isophorone	2.464	2.905	-	-17.9	20	70	0
2-Nitrophenol	0.618	0.843	-	-36.4*	20	79	0
2,4-Dimethylphenol	1.309	1.534	-	-17.2	20	70	0
Bis(2-chloroethoxy)methane	1.574	1.819	-	-15.6	20	70	0
2,4-Dichlorophenol	1.111	1.283	-	-15.5	20	70	0
1,2,4-Trichlorobenzene	1.309	1.37	-	-4.7	20	67	0
IS1_Naphthalene-d8	1	1	-	0	20	68	0
Naphthalene	1.011	1.073	-	-6.1	20	70	0
Benzoic Acid	50	49.401	-	1.2	20	70	0
4-Chloroaniline	0.125	0.149	-	-19.2	20	73	0
Hexachlorobutadiene	0.202	0.19	-	5.9	20	62	0
p-Chloro-m-cresol	0.273	0.331	-	-21.2*	20	74	0
2-Methylnaphthalene	0.655	0.701	-	-7	20	70	0
1-Methylnaphthalene	0.237	0.245	-	-3.4	20	68	0
Hexachlorocyclopentadiene	0.26	0.201	-	22.7*	20	50	0
2,4,6-Trichlorophenol	0.204	0.226	-	-10.8	20	67	0
2,4,5-Trichlorophenol	0.225	0.259	-	-15.1	20	70	0
2-Fluorobiphenyl	0.767	0.815	-	-6.3	20	70	0
2-Chloronaphthalene	0.66	0.736	-	-11.5	20	72	0
2-Nitroaniline	0.192	0.247	-	-28.6*	20	83	0
1,4-Dinitrobenzene	0.09	0.117	-	-30*	20	81	0
1,3-Dinitrobenzene	0.104	0.132	-	-26.9*	20	80	0
Dimethyl phthalate	0.776	0.892	-	-14.9	20	75	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV124
 Lab File ID : ABN0719
 Sample No : WG1804924-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/19/23 07:10
 Init. Calib. Date(s) : 05/26/23 05/27/23
 Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.034	1.202	-	-16.2	20	76	0
2,6-Dinitrotoluene	0.154	0.194	-	-26*	20	79	0
1,2-Dinitrobenzene	0.07	0.083	-	-18.6	20	76	0
IS1_Acenaphthene-d10	1	1	-	0	20	71	0
3-Nitroaniline	0.322	0.396	-	-23*	20	80	0
Acenaphthene	1.19	1.27	-	-6.7	20	73	0
2,4-Dinitrophenol	50	46.627	-	6.7	20	72	0
Dibenzofuran	1.851	1.926	-	-4.1	20	72	0
2,4-Dinitrotoluene	50	56.817	-	-13.6	20	80	0
4-Nitrophenol	50	54.707	-	-9.4	20	76	0
2,3,5,6-Tetrachlorophenol	0.364	0.359	-	1.4	20	63	0
2,3,4,6-Tetrachlorophenol	0.376	0.374	-	0.5	20	66	0
Diethyl phthalate	1.5	1.691	-	-12.7	20	73	0
Fluorene	1.531	1.53	-	0.1	20	69	0
4-Chlorophenyl phenyl ethe	0.74	0.726	-	1.9	20	66	0
4-Nitroaniline	50	56.262	-	-12.5	20	84	0
4,6-Dinitro-o-cresol	0.233	0.271	-	-16.3	20	79	0
NDPA/DPA	1.206	1.32	-	-9.5	20	74	0
Azobenzene	1.478	1.666	-	-12.7	20	73	0
2,4,6-Tribromophenol	0.241	0.247	-	-2.5	20	67	0
4-Bromophenyl phenyl ether	0.44	0.42	-	4.5	20	65	0
Hexachlorobenzene	0.539	0.51	-	5.4	20	68	0
Pentachlorophenol	50	35.906	-	28.2*	20	55	0
IS1_Phenanthrene-d10	1	1	-	0	20	72	0
Phenanthrene	1.061	1.126	-	-6.1	20	72	0
Anthracene	1.069	1.186	-	-10.9	20	74	0
Carbazole	0.937	1.078	-	-15	20	76	0
Di-n-butylphthalate	1.173	1.488	-	-26.9*	20	77	0
Fluoranthene	1.222	1.28	-	-4.7	20	73	0
Benzidine	50	62.629	-	-25.3*	20	85	0
Pyrene	1.276	1.335	-	-4.6	20	72	0
4-Terphenyl-d14	0.966	0.976	-	-1	20	70	0
Butyl benzyl phthalate	50	63.712	-	-27.4*	20	86	0
IS1_Chrysene-d12	1	1	-	0	20	72	0
Benzo(a)anthracene	1.35	1.464	-	-8.4	20	72	0
3,3'-Dichlorobenzidine	0.476	0.581	-	-22.1*	20	79	0
Chrysene	1.325	1.363	-	-2.9	20	71	0
Bis(2-ethylhexyl)phthalate	50	55.852	-	-11.7	20	77	0
Di-n-octylphthalate	50	59.345	-	-18.7	20	84	0
Benzo(b)fluoranthene	1.37	1.535	-	-12	20	75	0
Benzo(k)fluoranthene	1.33	1.477	-	-11.1	20	70	0
Benzo(a)pyrene	1.162	1.358	-	-16.9	20	73	0
IS1_Perylene-d12	1	1	-	0	20	71	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Lab File ID : ABN0719
Sample No : WG1804924-3
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/19/23 07:10
Init. Calib. Date(s) : 05/26/23 05/27/23
Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.303	1.485	-	-14	20	71	0
Dibenzo(a,h)anthracene	1.159	1.288	-	-11.1	20	69	0
Benzo(ghi)perylene	1.144	1.273	-	-11.3	20	70	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV124
 Lab File ID : AP90719
 Sample No : WG1804924-4
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/19/23 07:27
 Init. Calib. Date(s) : 05/26/23 05/27/23
 Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	65	0
Benzaldehyde	0.783	0.905	-	-15.6	20	70	0
Acetophenone	50	57.821	-	-15.6	20	75	0
m-Toluidine	1.501	1.765	-	-17.6	20	68	0
2-Chloroaniline	1.593	1.914	-	-20.2*	20	74	0
IS2_Naphthalene-d8	1	1	-	0	20	66	0
a-Terpineol	0.292	0.402	-	-37.7*	20	86	0
3-Chloroaniline	0.129	0.148	-	-14.7	20	70	0
2,6-Dichlorophenol	0.261	0.292	-	-11.9	20	70	0
1-chloro-2-nitrobenzene	0.134	0.154	-	-14.9	20	73	0
Caprolactam	50	67.039	-	-34.1*	20	96	0
1,2,4,5-Tetrachlorobenzene	0.361	0.329	-	8.9	20	60	0
Biphenyl	0.822	0.841	-	-2.3	20	65	0
IS2_Acenaphthene-d10	1	1	-	0	20	62	0
Dichloran	50	51.568	-	-3.1	20	72	0
Pentachloronitrobenzene	0.198	0.196	-	1	20	59	0
IS2_Phenanthrene-d10	1	1	-	0	20	53	0
Diphenamid	50	60.472	-	-20.9*	20	62	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Lab File ID : ADP0719
Sample No : WG1804924-5
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/19/23 07:44
Init. Calib. Date(s) : 05/26/23 05/27/23
Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	68	0
1,4-Dioxane	0.478	0.509	-	-6.5	20	80	0
n-Decane	50	68.428	-	-36.9*	20	99	0
IS3_Acenaphthene-d10	1	1	-	0	20	71	0
Atrazine	0.387	0.44	-	-13.7	20	77	0
IS3_Phenanthrene-d10	1	1	-	0	20	62	0
n-Octadecane	0.445	0.714	-	-60.4*	20	95	0
Parathion	50	76.788	-	-53.6*	20	108	0
3,3'-Dimethylbenzidine	50	58.752	-	-17.5	20	76	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV124
 Lab File ID : ABN0720NA
 Sample No : WG1805740-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/20/23 18:48
 Init. Calib. Date(s) : 05/26/23 05/27/23
 Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	107	0
n-Nitrosodimethylamine	0.698	0.765	-	-9.6	20	111	0
Pyridine	50	53.086	-	-6.2	20	119	0
2-Fluorophenol	1.072	1.267	-	-18.2	20	117	0
Aniline	1.81	2.062	-	-13.9	20	117	0
2-Chlorophenol	1.267	1.452	-	-14.6	20	115	0
Phenol-d6	1.4	1.554	-	-11	20	111	0
Phenol	1.514	1.809	-	-19.5	20	118	0
Bis(2-chloroethyl)ether	1.221	1.324	-	-8.4	20	112	0
1,3-Dichlorobenzene	1.466	1.588	-	-8.3	20	114	0
1,4-Dichlorobenzene	1.535	1.638	-	-6.7	20	115	0
1,2-Dichlorobenzene	1.47	1.593	-	-8.4	20	117	0
Benzyl alcohol	50	54.208	-	-8.4	20	114	0
Bis(2-chloroisopropyl)ethe	2.086	2.867	-	-37.4*	20	139	0
2-Methylphenol	1.186	1.266	-	-6.7	20	111	0
Hexachloroethane	0.595	0.659	-	-10.8	20	114	0
n-Nitrosodi-n-propylamine	0.943	1.08	-	-14.5	20	114	0
3-Methylphenol/4-Methylphe	1.206	1.366	-	-13.3	20	114	0
Nitrobenzene-d5	1.366	1.534	-	-12.3	20	110	0
Nitrobenzene	1.392	1.546	-	-11.1	20	112	0
Isophorone	2.464	2.97	-	-20.5*	20	119	0
2-Nitrophenol	0.618	0.796	-	-28.8*	20	124	0
2,4-Dimethylphenol	1.309	1.457	-	-11.3	20	110	0
Bis(2-chloroethoxy)methane	1.574	1.814	-	-15.2	20	115	0
2,4-Dichlorophenol	1.111	1.283	-	-15.5	20	116	0
1,2,4-Trichlorobenzene	1.309	1.42	-	-8.5	20	116	0
IS1_Naphthalene-d8	1	1	-	0	20	113	0
Naphthalene	1.011	1.076	-	-6.4	20	117	0
Benzoic Acid	50	50.619	-	-1.2	20	120	0
4-Chloroaniline	0.125	0.147	-	-17.6	20	121	0
Hexachlorobutadiene	0.202	0.201	-	0.5	20	109	0
p-Chloro-m-cresol	0.273	0.31	-	-13.6	20	117	0
2-Methylnaphthalene	0.655	0.698	-	-6.6	20	116	-.11
1-Methylnaphthalene	0.237	0.242	-	-2.1	20	112	0
Hexachlorocyclopentadiene	0.26	0.213	-	18.1	20	88	0
2,4,6-Trichlorophenol	0.204	0.237	-	-16.2	20	116	0
2,4,5-Trichlorophenol	0.225	0.259	-	-15.1	20	117	0
2-Fluorobiphenyl	0.767	0.838	-	-9.3	20	120	0
2-Chloronaphthalene	0.66	0.718	-	-8.8	20	117	0
2-Nitroaniline	0.192	0.242	-	-26*	20	136	0
1,4-Dinitrobenzene	0.09	0.112	-	-24.4*	20	129	0
1,3-Dinitrobenzene	0.104	0.126	-	-21.2*	20	129	0
Dimethyl phthalate	0.776	0.89	-	-14.7	20	125	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV124
 Lab File ID : ABN0720NA
 Sample No : WG1805740-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/20/23 18:48
 Init. Calib. Date(s) : 05/26/23 05/27/23
 Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.034	1.228	-	-18.8	20	129	0
2,6-Dinitrotoluene	0.154	0.189	-	-22.7*	20	128	0
1,2-Dinitrobenzene	0.07	0.081	-	-15.7	20	123	0
IS1_Acenaphthene-d10	1	1	-	0	20	121	0
3-Nitroaniline	0.322	0.375	-	-16.5	20	130	0
Acenaphthene	1.19	1.223	-	-2.8	20	120	0
2,4-Dinitrophenol	50	45.472	-	9.1	20	119	0
Dibenzofuran	1.851	1.883	-	-1.7	20	119	0
2,4-Dinitrotoluene	50	56.855	-	-13.7	20	137	0
4-Nitrophenol	50	50.928	-	-1.9	20	119	0
2,3,5,6-Tetrachlorophenol	0.364	0.36	-	1.1	20	108	0
2,3,4,6-Tetrachlorophenol	0.376	0.368	-	2.1	20	110	0
Diethyl phthalate	1.5	1.696	-	-13.1	20	125	0
Fluorene	1.531	1.544	-	-0.8	20	118	0
4-Chlorophenyl phenyl ethe	0.74	0.724	-	2.2	20	112	0
4-Nitroaniline	50	52.994	-	-6	20	134	0
4,6-Dinitro-o-cresol	0.233	0.269	-	-15.5	20	133	0
NDPA/DPA	1.206	1.272	-	-5.5	20	122	0
Azobenzene	1.478	1.6	-	-8.3	20	120	0
2,4,6-Tribromophenol	0.241	0.253	-	-5	20	117	0
4-Bromophenyl phenyl ether	0.44	0.425	-	3.4	20	113	0
Hexachlorobenzene	0.539	0.533	-	1.1	20	120	0
Pentachlorophenol	50	40.2	-	19.6	20	105	0
IS1_Phenanthrene-d10	1	1	-	0	20	121	0
Phenanthrene	1.061	1.114	-	-5	20	121	0
Anthracene	1.069	1.165	-	-9	20	123	0
Carbazole	0.937	1.069	-	-14.1	20	126	0
Di-n-butylphthalate	1.173	1.5	-	-27.9*	20	131	0
Fluoranthene	1.222	1.278	-	-4.6	20	123	0
Benzidine	50	60.137	-	-20.3*	20	137	0
Pyrene	1.276	1.352	-	-6	20	124	0
4-Terphenyl-d14	0.966	0.991	-	-2.6	20	119	0
Butyl benzyl phthalate	50	63.464	-	-26.9*	20	145	0
IS1_Chrysene-d12	1	1	-	0	20	121	0
Benzo(a)anthracene	1.35	1.436	-	-6.4	20	120	0
3,3'-Dichlorobenzidine	0.476	0.572	-	-20.2*	20	131	0
Chrysene	1.325	1.319	-	0.5	20	116	0
Bis(2-ethylhexyl)phthalate	50	57.768	-	-15.5	20	136	0
Di-n-octylphthalate	50	60.407	-	-20.8*	20	145	0
Benzo(b)fluoranthene	1.37	1.424	-	-3.9	20	117	0
Benzo(k)fluoranthene	1.33	1.464	-	-10.1	20	117	0
Benzo(a)pyrene	1.162	1.281	-	-10.2	20	116	0
IS1_Perylene-d12	1	1	-	0	20	116	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Lab File ID : ABN0720NA
Sample No : WG1805740-3
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/20/23 18:48
Init. Calib. Date(s) : 05/26/23 05/27/23
Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.303	1.413	-	-8.4	20	110	0
Dibenzo(a,h)anthracene	1.159	1.216	-	-4.9	20	106	0
Benzo(ghi)perylene	1.144	1.185	-	-3.6	20	107	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Lab File ID : AP90720NA
Sample No : WG1805740-4
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/20/23 19:05
Init. Calib. Date(s) : 05/26/23 05/27/23
Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	158	0
Benzaldehyde	0.783	0.856	-	-9.3	20	162	0
Acetophenone	50	55.523	-	-11	20	175	0
m-Toluidine	1.501	1.706	-	-13.7	20	160	0
2-Chloroaniline	1.593	1.836	-	-15.3	20	172	0
IS2_Naphthalene-d8	1	1	-	0	20	161	0
a-Terpineol	0.292	0.386	-	-32.2*	20	202	0
3-Chloroaniline	0.129	0.146	-	-13.2	20	169	0
2,6-Dichlorophenol	0.261	0.297	-	-13.8	20	175	0
1-chloro-2-nitrobenzene	0.134	0.146	-	-9	20	168	0
Caprolactam	50	68.479	-	-37*	20	240	0
1,2,4,5-Tetrachlorobenzene	0.361	0.335	-	7.2	20	150	0
Biphenyl	0.822	0.854	-	-3.9	20	163	0
IS2_Acenaphthene-d10	1	1	-	0	20	155	0
Dichloran	50	55.685	-	-11.4	20	196	0
Pentachloronitrobenzene	0.198	0.211	-	-6.6	20	158	0
IS2_Phenanthrene-d10	1	1	-	0	20	146	0
Diphenamid	50	61.884	-	-23.8*	20	175	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Lab File ID : ADP0720NA
Sample No : WG1805740-5
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/20/23 19:22
Init. Calib. Date(s) : 05/26/23 05/27/23
Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	113	0
1,4-Dioxane	0.478	0.502	-	-5	20	131	0
n-Decane	50	68.051	-	-36.1*	20	163	0
IS3_Acenaphthene-d10	1	1	-	0	20	120	0
Atrazine	0.387	0.486	-	-25.6*	20	145	0
IS3_Phenanthrene-d10	1	1	-	0	20	110	0
n-Octadecane	0.445	0.74	-	-66.3*	20	174	0
Parathion	50	77.809	-	-55.6*	20	194	0
3,3'-Dimethylbenzidine	50	60.313	-	-20.6*	20	139	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\230718n\
 Data File : ADP0718n.d
 Acq On : 18 Jul 2023 8:54 pm
 Operator : SV103:ljj
 Sample : WG1804789-5,32,,ADP 10057 gmr0711A
 Misc : WG1804789,,ical20013
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 18 22:06:48 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jul 18 22:06:05 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32 I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	79	0.00
33 T	1,4-Dioxane	0.464	0.467	-0.6	85	0.00
34 T	n-Decane	1.295	1.257	2.9	76	0.00
86 I	IS3_Acenaphthene-d10	1.000	1.000	0.0	85	0.00
87 T	Atrazine	0.320	0.446	-39.4#	101	0.00
100 I	IS3_Phenanthrene-d10	1.000	1.000	0.0	83	0.00
101 T	n-Octadecane	0.402	0.467	-16.2	89	0.00
102 T	Parathion	* 50.000	82.947	-65.9#	144	0.00
103 T	3,3'-Dimethylbenzidine	* 50.000	67.557	-35.1#	103	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : ADP0718n.d
 Acq On : 18 Jul 2023 8:54 pm
 Operator : SV103:ljpg
 Sample : WG1804789-5,32,,ADP 10057 gmr0711A
 Misc : WG1804789,,ical20013
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 18 22:06:48 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jul 18 22:06:05 2023
 Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.822	152	151650	40.000	ug/ml	0.00
86) IS3_Acenaphthene-d10	6.769	164	314489	40.000	ug/ml	0.00
100) IS3_Phenanthrene-d10	8.175	188	639108	40.000	ug/ml	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	0.992	88	88533	50.335	ug/ml	93
34) n-Decane	3.737	57	238247	48.525	ug/ml	95
87) Atrazine	8.010	200	175384	69.819	ug/ml	99
101) n-Octadecane	8.221	57	372896	57.988	ug/ml#	92
102) Parathion	8.991	109	135190	82.947	ug/ml	96
103) 3,3'-Dimethylbenzidine	10.221	212	706695	67.557	ug/ml	97

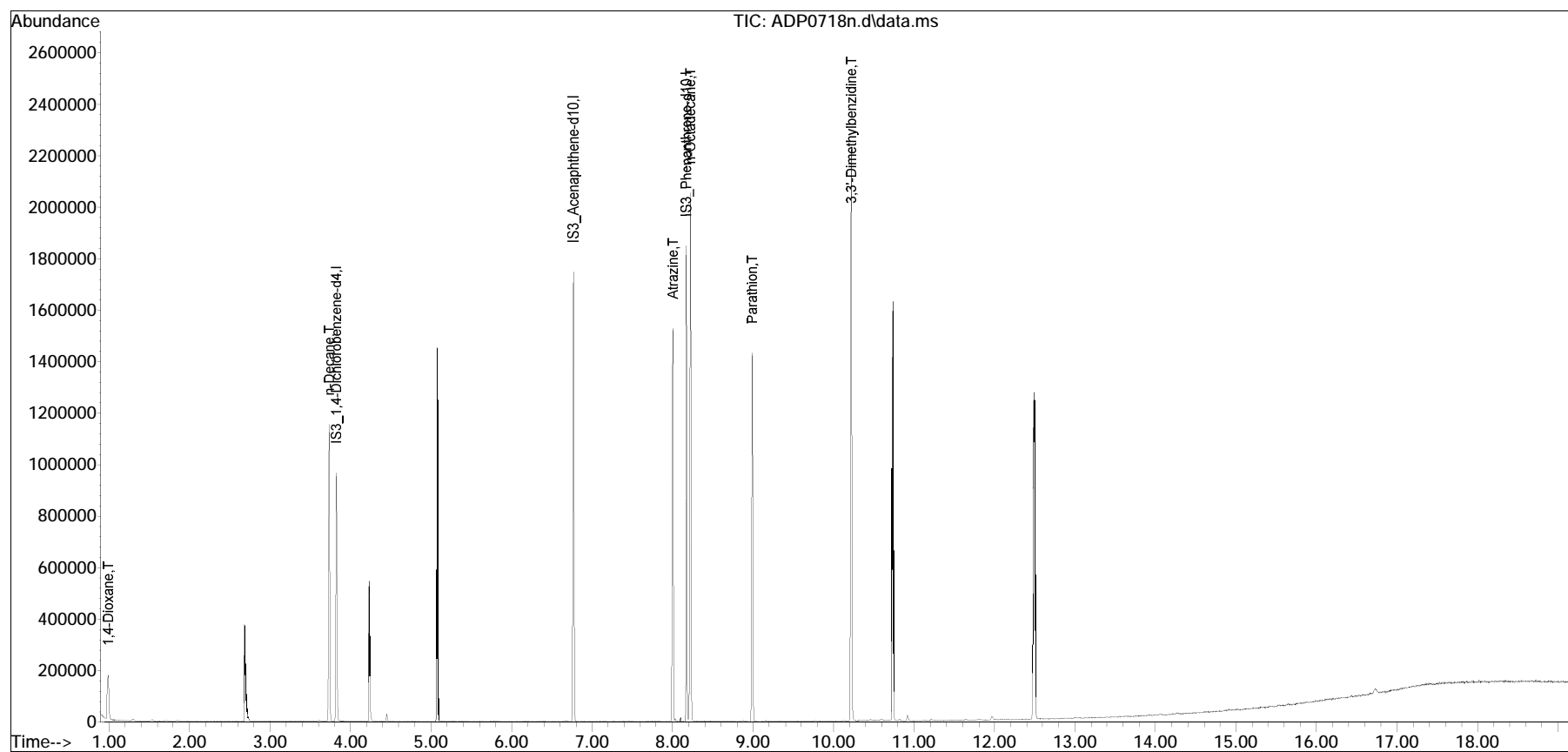
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

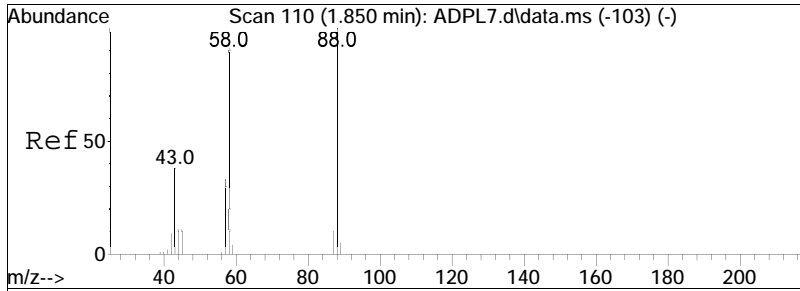
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
Data File : ADP0718n.d
Acq On : 18 Jul 2023 8:54 pm
Operator : SV103:ljpg
Sample : WG1804789-5,32,,ADP 10057 gmr0711A
Misc : WG1804789,,ical20013
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 18 22:06:48 2023
Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jul 18 22:06:05 2023
Response via : Initial Calibration

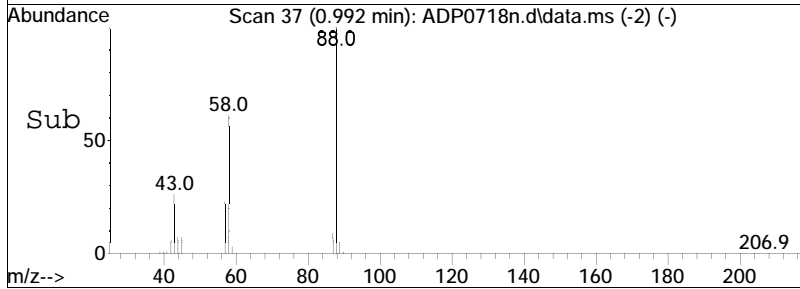
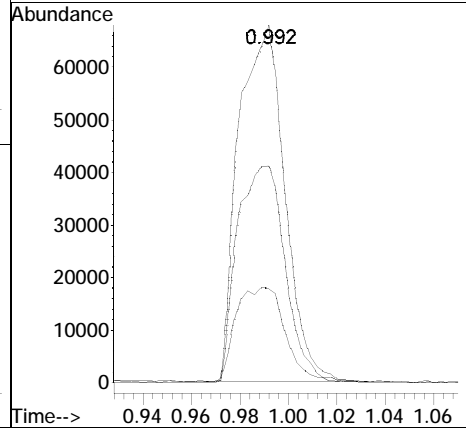
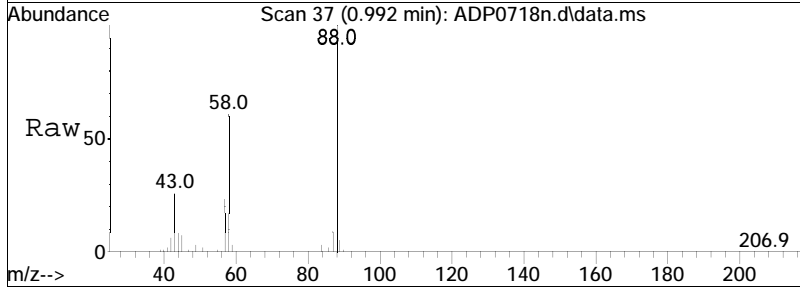
Sub List : ADPical_REV2 - ADP sublist

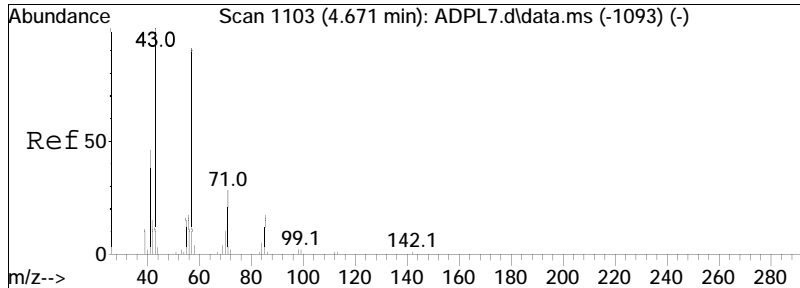




#33
 1,4-Dioxane
 Concen: 50.34 ug/ml
 RT: 0.992 min Scan# 37
 Delta R.T. 0.000 min
 Lab File: ADP0718n.d
 Acq: 18 Jul 2023 8:54 pm

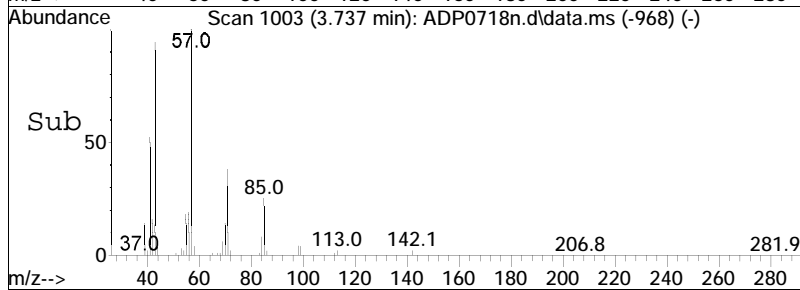
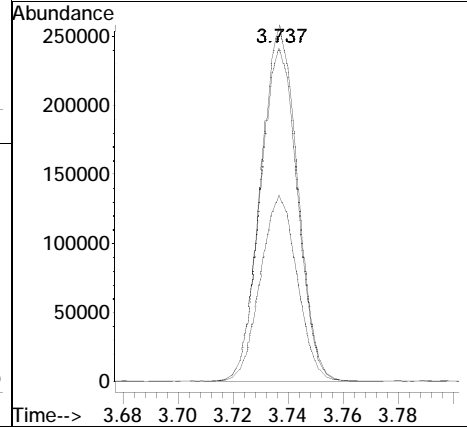
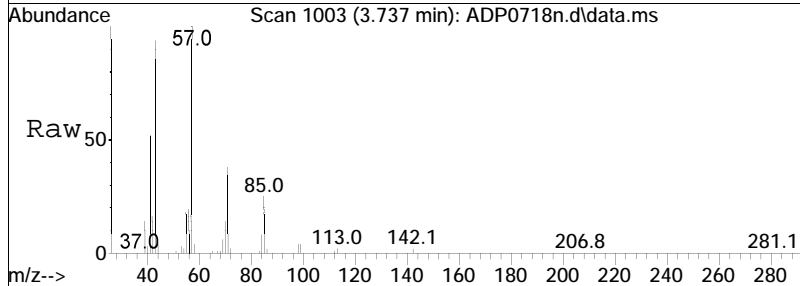
Tgt Ion	88	58	43	Resp:	88533	Lower	Upper
Ion Ratio	100	63.6	28.2				
		44.8	22.4				
		67.2	33.6				

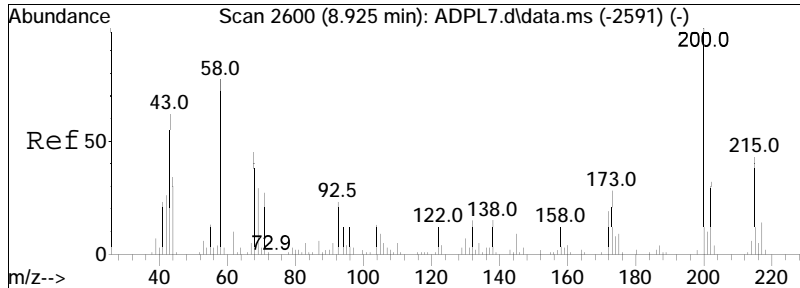




#34
 n-Decane
 Concen: 48.52 ug/ml
 RT: 3.737 min Scan# 1003
 Delta R.T. 0.000 min
 Lab File: ADP0718n.d
 Acq: 18 Jul 2023 8:54 pm

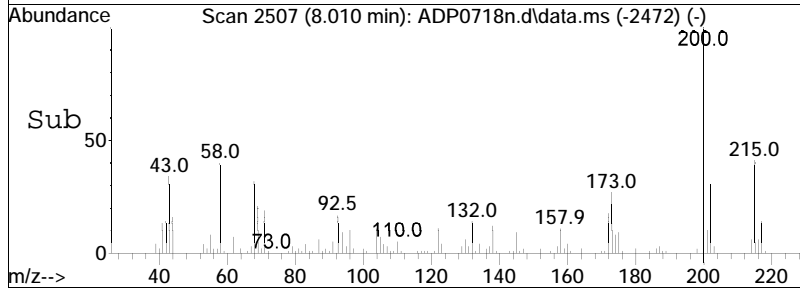
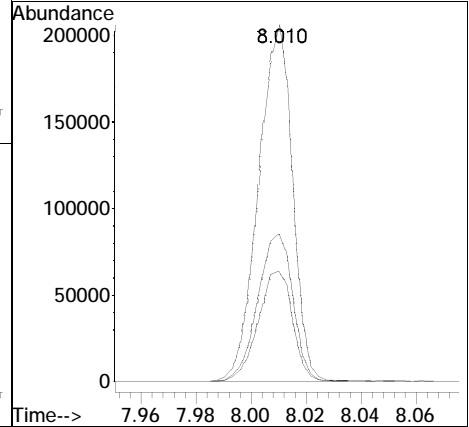
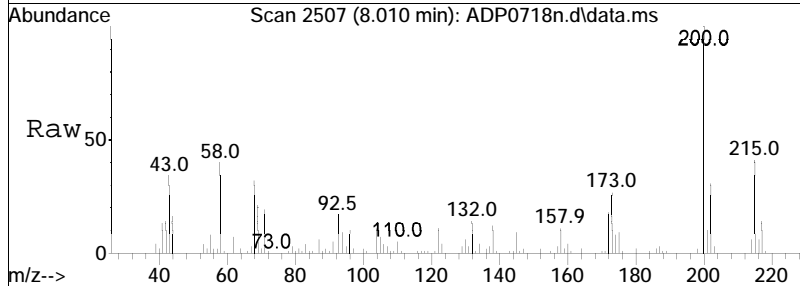
Tgt Ion	Resp	Lower	Upper
57	100		
43	94.7	77.9	116.9
41	52.5	36.9	55.3

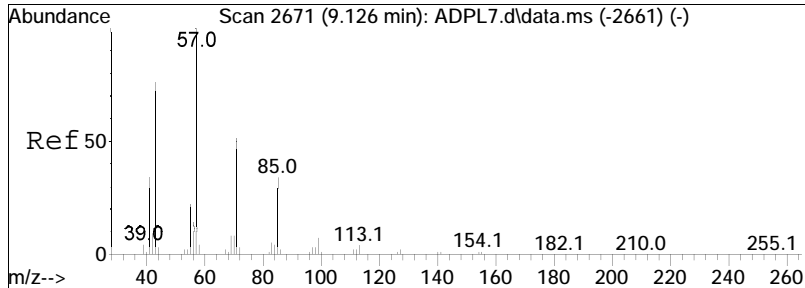




#87
 Atrazine
 Concen: 69.82 ug/ml
 RT: 8.010 min Scan# 2507
 Delta R.T. 0.000 min
 Lab File: ADP0718n.d
 Acq: 18 Jul 2023 8:54 pm

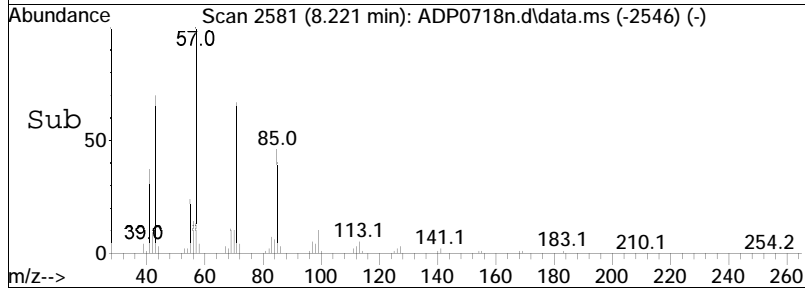
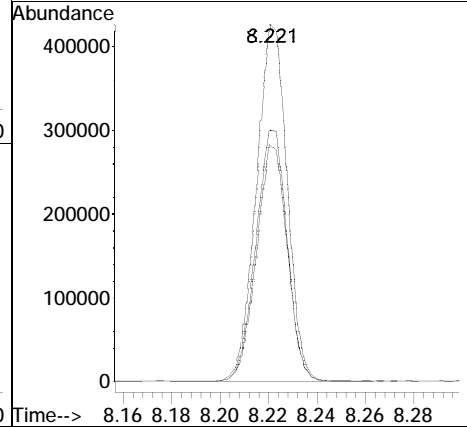
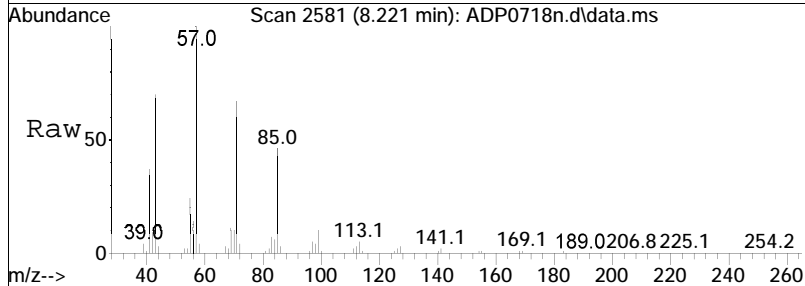
Tgt Ion	Ratio	Lower	Upper
200	100		
202	31.5	24.9	37.3
215	42.9	34.0	51.0

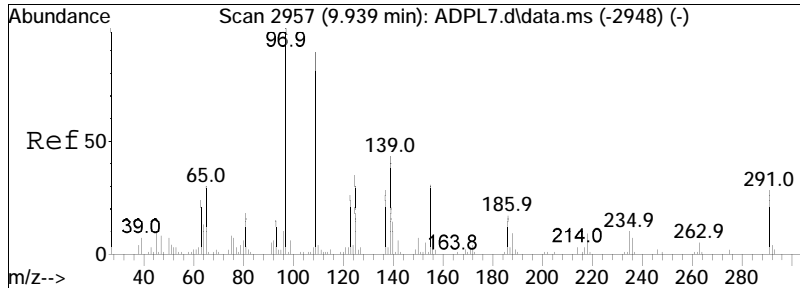




#101
 n-Octadecane
 Concen: 57.99 ug/ml
 RT: 8.221 min Scan# 2581
 Delta R.T. 0.000 min
 Lab File: ADP0718n.d
 Acq: 18 Jul 2023 8:54 pm

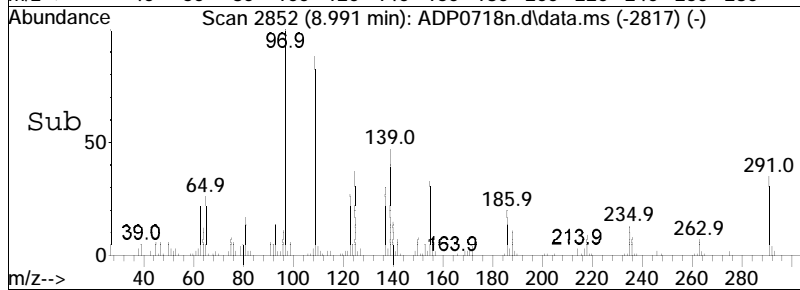
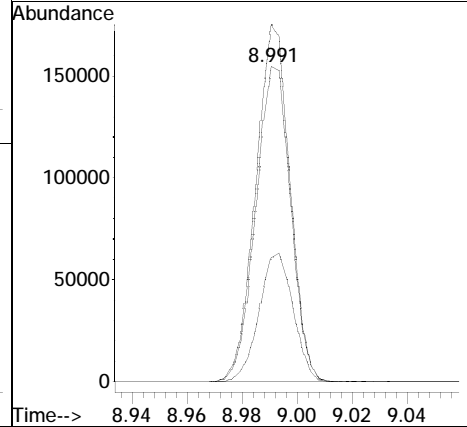
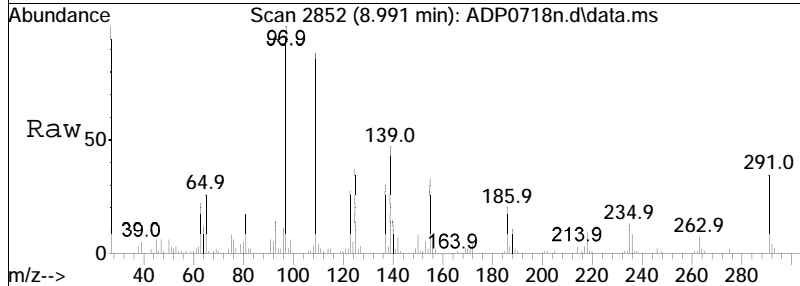
Tgt Ion	Resp	Lower	Upper
57	100		
43	71.5	56.7	85.1
71	66.4	42.8	64.2#

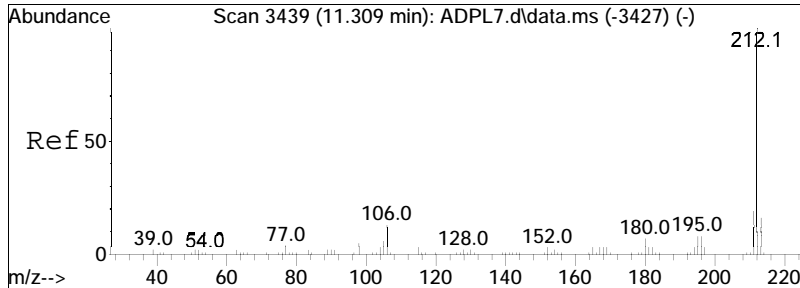




#102
 Parathion
 Concen: 82.95 ug/ml
 RT: 8.991 min Scan# 2852
 Delta R.T. 0.000 min
 Lab File: ADP0718n.d
 Acq: 18 Jul 2023 8:54 pm

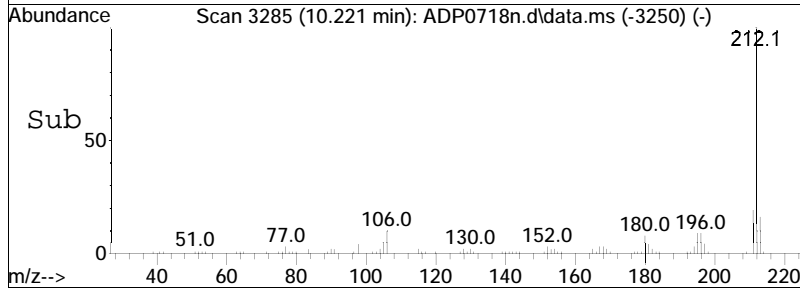
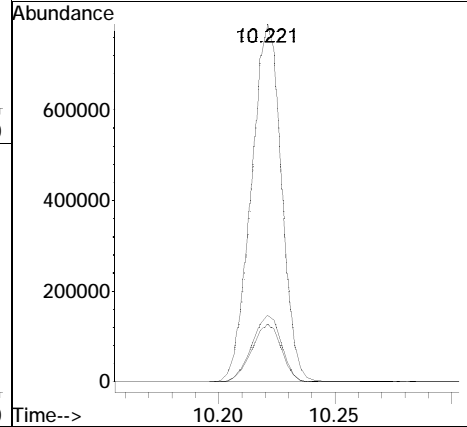
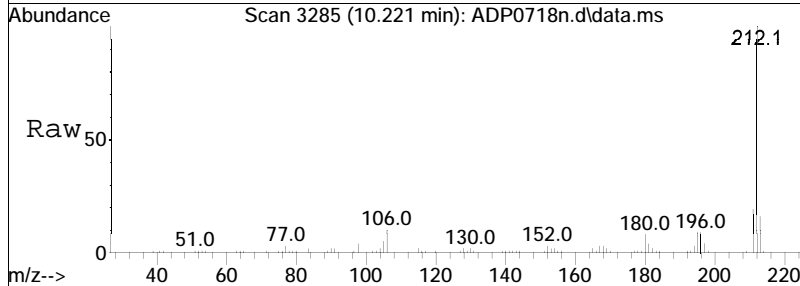
Tgt Ion	109	Resp	135190
Ion Ratio	Lower	Upper	
109	100		
97	111.3	85.8	128.8
291	40.2	29.8	44.8





#103
 3,3'-Dimethylbenzidine
 Concen: 67.56 ug/ml
 RT: 10.221 min Scan# 3285
 Delta R.T. 0.000 min
 Lab File: ADP0718n.d
 Acq: 18 Jul 2023 8:54 pm

Tgt Ion	Ratio	Lower	Upper
212	100		
211	18.4	13.5	20.3
213	16.0	13.4	20.0



Manual Integration Report

Data Path : I:\8270\SV103\230718n\ QMethod : FS230515nSV103.m
Data File : ADP0718n.d Operator : SV103:ljpg
Date Inj'd : 7/18/2023 8:54 pm Instrument : SV103
Sample : WG1804789-5,32,,ADP 10057 Quant Date : 7/18/2023 10:06 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\230718n\
 Data File : ABN0718n.D
 Acq On : 18 Jul 2023 9:19 pm
 Operator : SV103:ljpg
 Sample : WG1804789-3,32,,ABN 10133 gmr0711A
 Misc : WG1804789,,ical20013
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 18 22:06:30 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jul 18 22:06:05 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	IS1_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	154	0.00
2 t	n-Nitrosodimethylamine	0.713	0.647	9.3	131	0.00
3 t	Pyridine	1.184	1.117	5.7	135	0.00
4 S	2-Fluorophenol	1.115	1.065	4.5	137	0.00
5 T	Aniline	1.818	1.689	7.1	132	0.00
6 t	2-Chlorophenol	1.296	1.220	5.9	134	0.00
7 S	Phenol-d6	1.390	1.304	6.2	134	0.00
8 T	Phenol	1.587	1.376	13.3	124	0.00
9 T	Bis(2-chloroethyl)ether	1.121	1.056	5.8	137	0.00
10 T	1,3-Dichlorobenzene	1.515	1.361	10.2	133	0.00
11 T	1,4-Dichlorobenzene	1.548	1.396	9.8	135	0.00
12 T	1,2-Dichlorobenzene	1.469	1.326	9.7	132	0.00
13 t	Benzyl alcohol	0.883	0.972	-10.1	150	0.00
14 T	Bis(2-chloroisopropyl)ether	1.794	1.237	31.0#	99	0.00
15 T	2-Methylphenol	1.107	1.052	5.0	134	0.00
16 T	Hexachloroethane	0.531	0.545	-2.6	150	0.00
17 T	n-Nitrosodi-n-propylamine	0.773	0.808	-4.5	146	0.00
18 T	3-Methylphenol/4-Methylphen	1.167	1.131	3.1	136	0.00
19 S	Nitrobenzene-d5	1.153	1.248	-8.2	150	0.00
20 T	Nitrobenzene	1.164	1.232	-5.8	146	0.00
21 T	Isophorone	2.108	2.154	-2.2	140	0.00
22 T	2-Nitrophenol	0.569	0.648	-13.9	153	0.00
23 T	2,4-Dimethylphenol	1.194	1.120	6.2	130	0.00
24 T	Bis(2-chloroethoxy)methane	1.369	1.351	1.3	141	0.00
25 T	2,4-Dichlorophenol	1.058	1.031	2.6	133	0.00
26 T	1,2,4-Trichlorobenzene	1.203	1.121	6.8	137	0.00
35 I	IS1_Naphthalene-d8	1.000	1.000	0.0	152	0.00
36 T	Naphthalene	1.052	0.922	12.4	128	0.00
37 T	Benzoic Acid	* 50.000	57.673	-15.3	178	0.00
38 T	4-Chloroaniline	0.109	0.109	0.0	142	0.00
39 T	Hexachlorobutadiene	0.174	0.172	1.1	146	0.00
40 T	p-Chloro-m-cresol	0.264	0.267	-1.1	138	0.00
41 T	2-Methylnaphthalene	0.655	0.592	9.6	129	0.00
42 T	1-Methylnaphthalene	0.205	0.198	3.4	139	0.00
43 T	Hexachlorocyclopentadiene	0.189	0.165	12.7	123	0.00
44 T	2,4,6-Trichlorophenol	0.187	0.201	-7.5	142	0.00
45 T	2,4,5-Trichlorophenol	0.211	0.218	-3.3	140	0.00
46 S	2-Fluorobiphenyl	0.752	0.693	7.8	132	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\230718n\
 Data File : ABN0718n.D
 Acq On : 18 Jul 2023 9:19 pm
 Operator : SV103:ljpg
 Sample : WG1804789-3,32,,ABN 10133 gmr0711A
 Misc : WG1804789,,ical20013
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 18 22:06:30 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jul 18 22:06:05 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

-----		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47 T		2-Chloronaphthalene	0.645	0.588	8.8	130	0.00
48 T		2-Nitroaniline	0.202	0.208	-3.0	138	0.00
49 T		1,4-Dinitrobenzene	0.096	0.093	3.1	140	0.00
50 T		1,3-Dinitrobenzene	* 50.000	45.646	8.7	135	0.00
51 T		Dimethyl phthalate	0.742	0.703	5.3	131	0.00
52 T		Acenaphthylene	0.991	0.996	-0.5	138	0.00
53 T		2,6-Dinitrotoluene	0.152	0.156	-2.6	134	0.00
54 T		1,2-Dinitrobenzene	0.067	0.066	1.5	131	0.00
63 I		IS1_Acenaphthene-d10	1.000	1.000	0.0	151	0.00
64 T		3-Nitroaniline	0.352	0.337	4.3	131	0.00
65 T		Acenaphthene	1.160	1.064	8.3	135	0.00
66 T		2,4-Dinitrophenol	* 50.000	62.143	-24.3#	195	0.00
67 T		Dibenzofuran	1.799	1.570	12.7	127	0.00
68 T		2,4-Dinitrotoluene	0.384	0.406	-5.7	138	0.00
69 T		4-Nitrophenol	0.229	0.265	-15.7	156	0.00
70 T		2,3,5,6-Tetrachlorophenol	0.313	0.335	-7.0	142	0.00
71 T		2,3,4,6-Tetrachlorophenol	0.324	0.336	-3.7	142	0.00
72 T		Diethyl phthalate	1.401	1.356	3.2	133	0.00
73 T		Fluorene	1.395	1.270	9.0	129	0.00
74 T		4-Chlorophenyl phenyl ether	0.659	0.594	9.9	130	0.00
75 T		4-Nitroaniline	0.357	0.333	6.7	129	0.00
76 T		4,6-Dinitro-o-cresol	* 50.000	61.646	-23.3#	195	0.00
77 T		NDPA/DPA	1.192	1.065	10.7	125	0.00
78 T		Azobenzene	1.196	1.242	-3.8	144	0.00
79 S		2,4,6-Tribromophenol	0.213	0.221	-3.8	141	0.00
80 T		4-Bromophenyl phenyl ether	0.392	0.361	7.9	131	0.00
81 T		Hexachlorobenzene	0.479	0.438	8.6	133	0.00
82 T		Pentachlorophenol	* 50.000	44.940	10.1	138	0.00
88 I		IS1_Phenanthrene-d10	1.000	1.000	0.0	151	0.00
89 T		Phenanthrene	1.102	0.946	14.2	126	0.00
90 T		Anthracene	1.086	0.967	11.0	127	0.00
91 T		Carbazole	1.017	0.908	10.7	126	0.00
92 T		Di-n-butylphthalate	1.092	1.187	-8.7	139	0.00
93 T		Fluoranthene	1.157	1.079	6.7	131	0.00
94 T		Benzidine	0.729	0.693	4.9	123	0.00
95 T		Pyrene	1.244	1.141	8.3	130	0.00
96 S		4-Terphenyl-d14	0.931	0.807	13.3	123	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\230718n\
 Data File : ABN0718n.D
 Acq On : 18 Jul 2023 9:19 pm
 Operator : SV103:ljpg
 Sample : WG1804789-3,32,,ABN 10133 gmr0711A
 Misc : WG1804789,,ical20013
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 18 22:06:30 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jul 18 22:06:05 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97 T	Butyl benzyl phthalate	* 50.000	50.510	-1.0	149	0.00
104 I	IS1_Chrysene-d12	1.000	1.000	0.0	152	0.00
105 T	Benzo(a)anthracene	1.325	1.151	13.1	127	0.00
106 T	3,3'-Dichlorobenzidine	0.484	0.479	1.0	132	0.00
107 T	Chrysene	1.326	1.088	17.9	125	0.00
108 T	Bis(2-ethylhexyl)phthalate	* 50.000	47.655	4.7	142	0.00
109 T	Di-n-octylphthalate	* 50.000	48.145	3.7	146	0.00
110 T	Benzo(b)fluoranthene	1.286	1.119	13.0	123	0.00
111 T	Benzo(k)fluoranthene	1.320	1.134	14.1	121	0.00
112 T	Benzo(a)pyrene	1.109	1.004	9.5	124	0.00
113 I	IS1_Perylene-d12	1.000	1.000	0.0	147	0.00
114 T	Indeno(1,2,3-cd)pyrene	0.853	0.854	-0.1	131	0.00
115 T	Dibenzo(a,h)anthracene	1.023	0.927	9.4	121	0.00
116 T	Benzo(ghi)perylene	1.042	0.936	10.2	122	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : ABN0718n.D
 Acq On : 18 Jul 2023 9:19 pm
 Operator : SV103:ljpg
 Sample : WG1804789-3,32,,ABN 10133 gmr0711A
 Misc : WG1804789,,ical20013
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 18 22:06:30 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jul 18 22:06:05 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.822	152	229645	40.000	ug/ml	0.00
35) IS1_Naphthalene-d8	5.081	136	870434	40.000	ug/ml	0.00
63) IS1_Acenaphthene-d10	6.772	164	468195	40.000	ug/ml	0.00
88) IS1_Phenanthrene-d10	8.178	188	951685	40.000	ug/ml	0.00
104) IS1_Chrysene-d12	10.741	240	883111	40.000	ug/ml	0.00
113) IS1_Perylene-d12	12.500	264	990767	40.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.461	112	305844	47.786	ug/ml	0.00
Spiked Amount	50.000	Range 15 - 110	Recovery =	95.57%		
7) Phenol-d6	3.564	99	374355	46.910	ug/ml	0.00
Spiked Amount	50.000	Range 15 - 110	Recovery =	93.82%		
19) Nitrobenzene-d5	4.393	82	358367	54.116	ug/ml	0.00
Spiked Amount	25.000	Range 30 - 130	Recovery =	216.46%#		
46) 2-Fluorobiphenyl	6.163	172	754483	46.100	ug/ml	0.00
Spiked Amount	25.000	Range 30 - 130	Recovery =	184.40%#		
79) 2,4,6-Tribromophenol	7.530	330	129333	51.914	ug/ml	0.00
Spiked Amount	50.000	Range 15 - 110	Recovery =	103.83%		
96) 4-Terphenyl-d14	9.755	244	959560	43.340	ug/ml	0.00
Spiked Amount	25.000	Range 30 - 130	Recovery =	173.36%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.137	74	185708	45.353	ug/ml#	84
3) Pyridine	1.154	79	320595	47.167	ug/ml#	70
5) Aniline	3.501	93	484735	46.436	ug/ml#	88
6) 2-Chlorophenol	3.620	128	350218	47.086	ug/ml#	90
8) Phenol	3.578	94	395027	43.343	ug/ml#	94
9) Bis(2-chloroethyl)ether	3.609	93	303107	47.081	ug/ml	86
10) 1,3-Dichlorobenzene	3.760	146	390583	44.905	ug/ml	97
11) 1,4-Dichlorobenzene	3.842	146	400687	45.085	ug/ml	97
12) 1,2-Dichlorobenzene	3.987	146	380507	45.130	ug/ml	97
13) Benzyl alcohol	4.018	79	278889	54.986	ug/ml	97
14) Bis(2-chloroisopropyl)...	4.163	45	354972	34.471	ug/ml#	69
15) 2-Methylphenol	4.177	108	301971	47.531	ug/ml	98
16) Hexachloroethane	4.314	117	156399	51.337	ug/ml#	83
17) n-Nitrosodi-n-propylamine	4.291	70	231908	52.228	ug/ml	100
18) 3-Methylphenol/4-Methy...	4.345	108	324635	48.448	ug/ml	98
20) Nitrobenzene	4.410	77	353528	52.911	ug/ml	95
21) Isophorone	4.666	82	618182	51.073	ug/ml	100
22) 2-Nitrophenol	4.731	139	186118	57.005	ug/ml	88

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : ABN0718n.D
 Acq On : 18 Jul 2023 9:19 pm
 Operator : SV103:ljpg
 Sample : WG1804789-3,32,,ABN 10133 gmr0711A
 Misc : WG1804789,,ical20013
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 18 22:06:30 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jul 18 22:06:05 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	4.854	107	321605	46.900	ug/ml	96
24) Bis(2-chloroethoxy)met...	4.927	93	387942	49.353	ug/ml#	98
25) 2,4-Dichlorophenol	4.987	162	296005	48.725	ug/ml	96
26) 1,2,4-Trichlorobenzene	5.044	180	321732	46.593	ug/ml	98
36) Naphthalene	5.101	128	1003636	43.829	ug/ml	99
37) Benzoic Acid	5.030	105	282956	57.673	ug/ml	96
38) 4-Chloroaniline	5.197	65	118291	49.905	ug/ml#	67
39) Hexachlorobutadiene	5.260	225	187661	49.576	ug/ml	99
40) p-Chloro-m-cresol	5.732	107	290840	50.701	ug/ml	94
41) 2-Methylnaphthalene	5.783	142	644012	45.181	ug/ml	95
42) 1-Methylnaphthalene	5.871	115	215095	48.322	ug/ml	84
43) Hexachlorocyclopentadiene	5.950	237	179662	43.668	ug/ml	96
44) 2,4,6-Trichlorophenol	6.090	196	218806	53.813	ug/ml	94
45) 2,4,5-Trichlorophenol	6.121	196	237688	51.731	ug/ml	96
47) 2-Chloronaphthalene	6.243	162	639775	45.598	ug/ml	97
48) 2-Nitroaniline	6.377	138	226151	51.501	ug/ml	86
49) 1,4-Dinitrobenzene	6.527	168	101712	48.938	ug/ml	88
50) 1,3-Dinitrobenzene	6.598	168	114834	45.646	ug/ml	86
51) Dimethyl phthalate	6.595	163	765408	47.399	ug/ml	99
52) Acenaphthylene	6.629	152	1083836	50.237	ug/ml	98
53) 2,6-Dinitrotoluene	6.632	165	169425	51.058	ug/ml#	86
54) 1,2-Dinitrobenzene	6.669	168	71668	49.015	ug/ml#	20
64) 3-Nitroaniline	6.777	138	197367	47.889	ug/ml#	93
65) Acenaphthene	6.800	154	622624	45.840	ug/ml	94
66) 2,4-Dinitrophenol	6.891	184	114210	62.143	ug/ml	87
67) Dibenzofuran	6.970	168	918658	43.639	ug/ml	94
68) 2,4-Dinitrotoluene	7.013	165	237374	52.771	ug/ml#	80
69) 4-Nitrophenol	7.016	65	154975	57.834	ug/ml	94
70) 2,3,5,6-Tetrachlorophenol	7.078	232	195874	53.413	ug/ml	97
71) 2,3,4,6-Tetrachlorophenol	7.118	232	196580	51.883	ug/ml	99
72) Diethyl phthalate	7.277	149	793652	48.388	ug/ml	100
73) Fluorene	7.297	166	743515	45.537	ug/ml	95
74) 4-Chlorophenyl phenyl ...	7.331	204	347915	45.101	ug/ml	91
75) 4-Nitroaniline	7.363	138	194874	46.625	ug/ml#	81
76) 4,6-Dinitro-o-cresol	7.405	198	144555	61.646	ug/ml#	80
77) NDPA/DPA	7.456	169	623271	44.660	ug/ml	95
78) Azobenzene	7.479	77	726824	51.917	ug/ml	96
80) 4-Bromophenyl phenyl e...	7.789	248	211187	46.034	ug/ml#	88
81) Hexachlorobenzene	7.826	284	256612	45.796	ug/ml	92
82) Pentachlorophenol	8.033	266	155476	44.940	ug/ml	97
89) Phenanthrene	8.198	178	1125737	42.920	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : ABN0718n.D
 Acq On : 18 Jul 2023 9:19 pm
 Operator : SV103:ljpg
 Sample : WG1804789-3,32,,ABN 10133 gmr0711A
 Misc : WG1804789,,ical20013
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 18 22:06:30 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jul 18 22:06:05 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Anthracene	8.246	178	1150414	44.517	ug/ml	99
91) Carbazole	8.434	167	1080698	44.642	ug/ml	98
92) Di-n-butylphthalate	8.854	149	1412370	54.340	ug/ml	99
93) Fluoranthene	9.332	202	1283308	46.620	ug/ml	98
94) Benzenzidine	9.514	184	824412	47.508	ug/ml	98
95) Pyrene	9.536	202	1357873	45.871	ug/ml	99
97) Butyl benzyl phthalate	10.275	149	654236	50.510	ug/ml	94
105) Benzo(a)anthracene	10.730	228	1270632	43.432	ug/ml	99
106) 3,3'-Dichlorobenzidine	10.758	252	528219	49.470	ug/ml	97
107) Chrysene	10.769	228	1201571	41.030	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	10.940	149	994958	47.655	ug/ml#	97
109) Di-n-octylphthalate	11.750	149	1697715	48.145	ug/ml#	91
110) Benzo(b)fluoranthene	12.014	252	1235539	43.508	ug/ml	99
111) Benzo(k)fluoranthene	12.048	252	1251569	42.962	ug/ml	98
112) Benzo(a)pyrene	12.420	252	1108066	45.247	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	13.940	276	1058045	50.062	ug/mL	98
115) Dibenzo(a,h)anthracene	13.997	278	1147801	45.301	ug/ml	98
116) Benzo(ghi)perylene	14.279	276	1159319	44.929	ug/ml	93

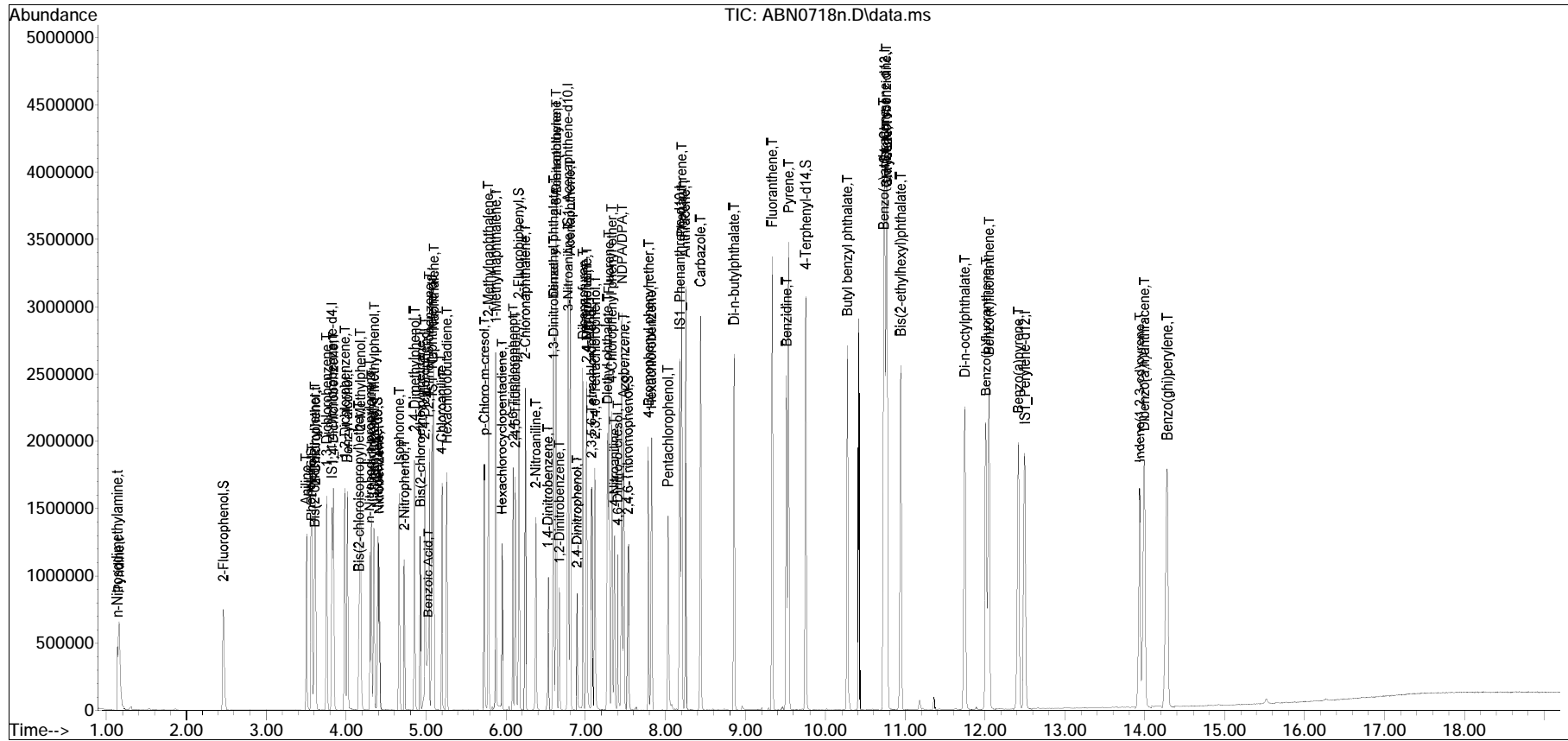
(#) = qualifier out of range (m) = manual integration (+) = signals summed

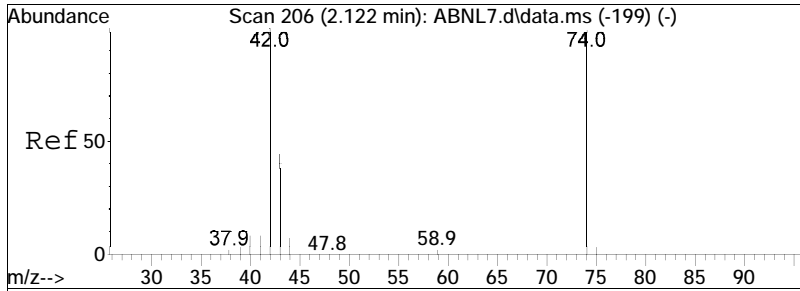
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : ABN0718n.D
 Acq On : 18 Jul 2023 9:19 pm
 Operator : SV103:ljl
 Sample : WG1804789-3,32,,ABN 10133 gmr0711A
 Misc : WG1804789,,ical20013
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 18 22:06:30 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jul 18 22:06:05 2023
 Response via : Initial Calibration

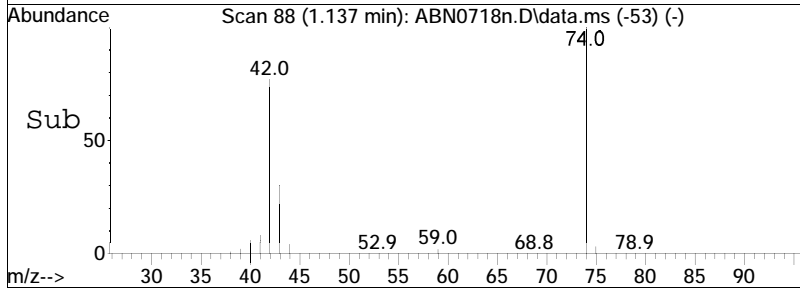
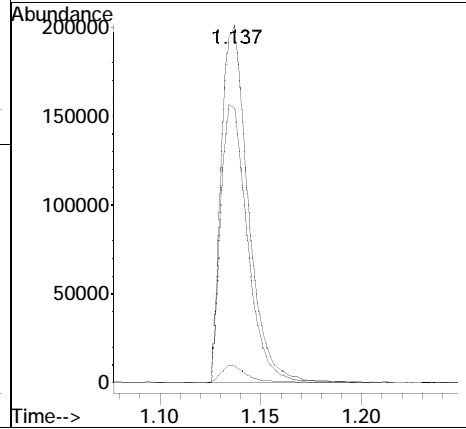
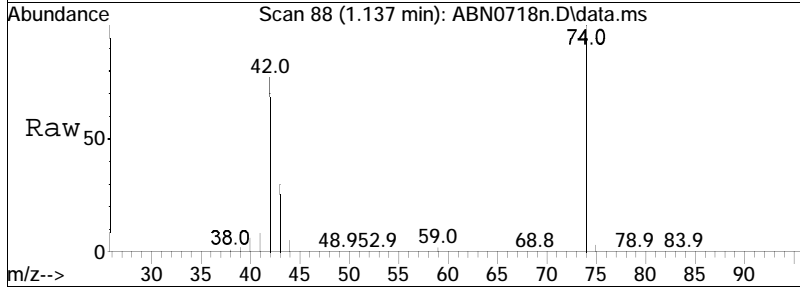
Sub List : ABNical - ABN ical sublist

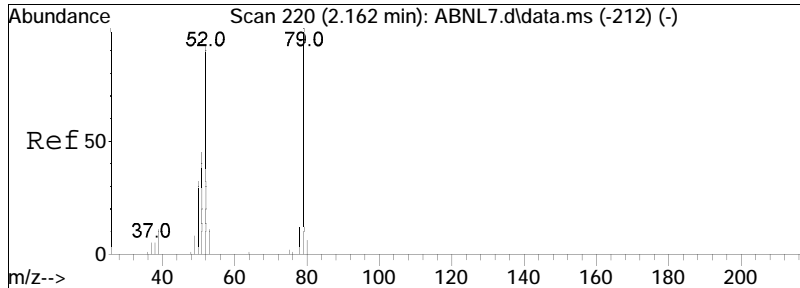




#2
 n-Nitrosodimethylamine
 Concen: 45.35 ug/ml
 RT: 1.137 min Scan# 88
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

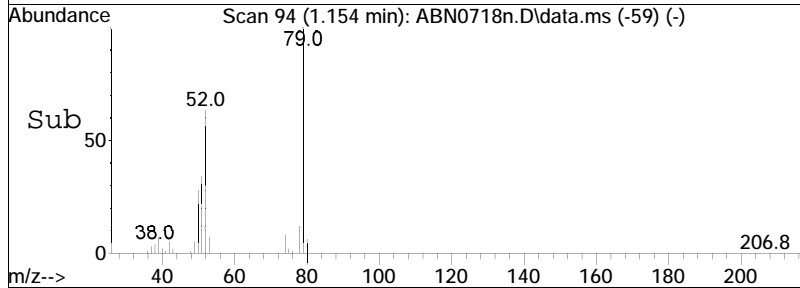
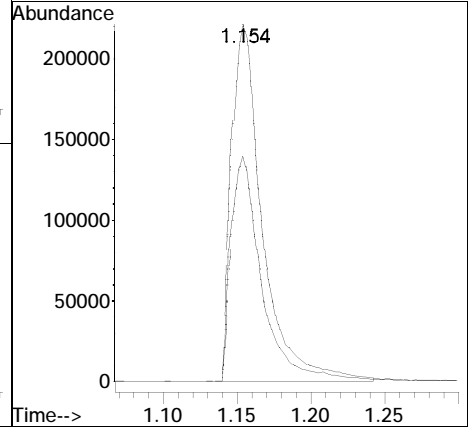
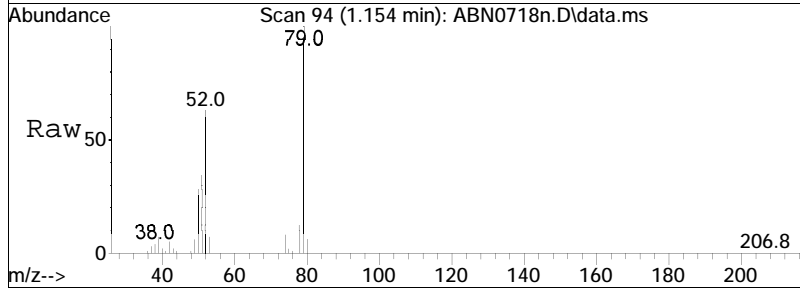
Tgt Ion	74	42	44	Ratio	100	77.4	4.6	Resp	185708	Lower	Upper

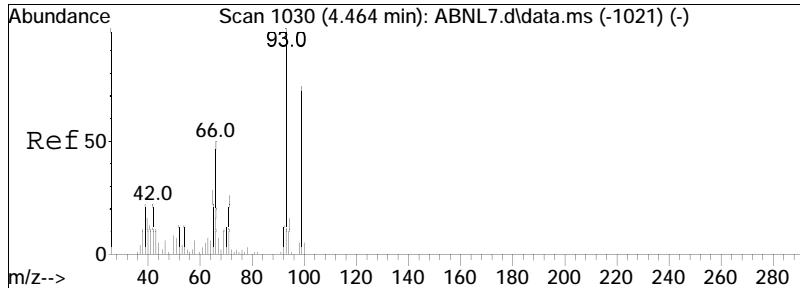




#3
 Pyridine
 Concen: 47.17 ug/ml
 RT: 1.154 min Scan# 94
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

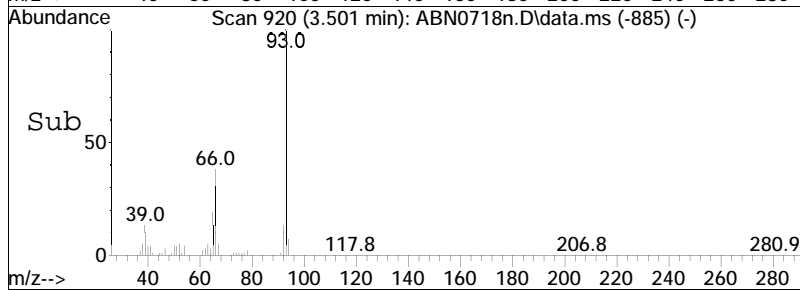
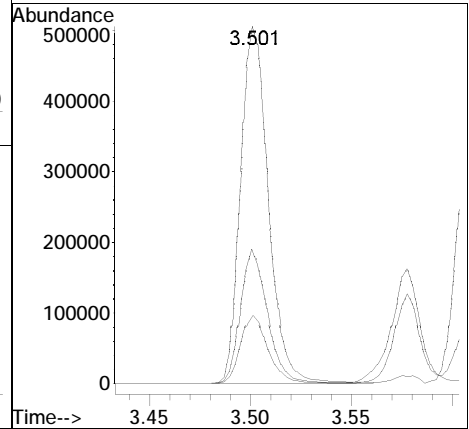
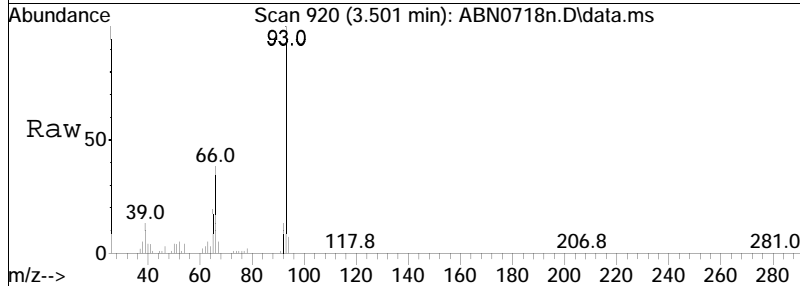
Tgt Ion: 79 Resp: 320595
 Ion Ratio Lower Upper
 79 100
 52 62.5 72.9 109.3#

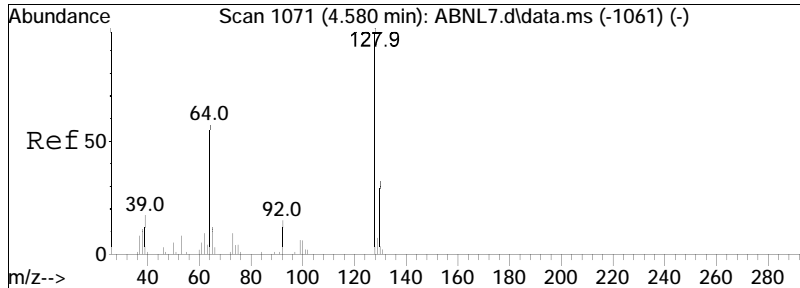




#5
 Aniline
 Concen: 46.44 ug/ml
 RT: 3.501 min Scan# 920
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

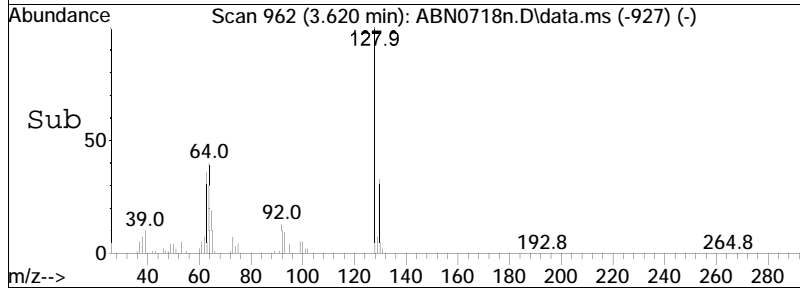
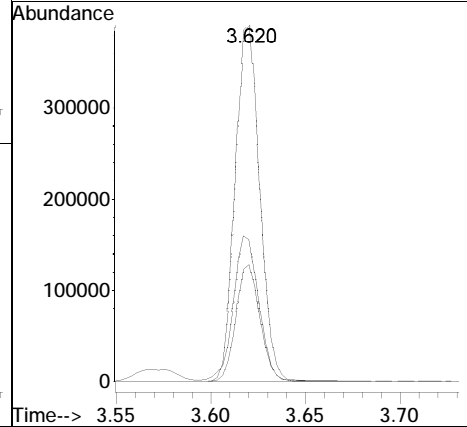
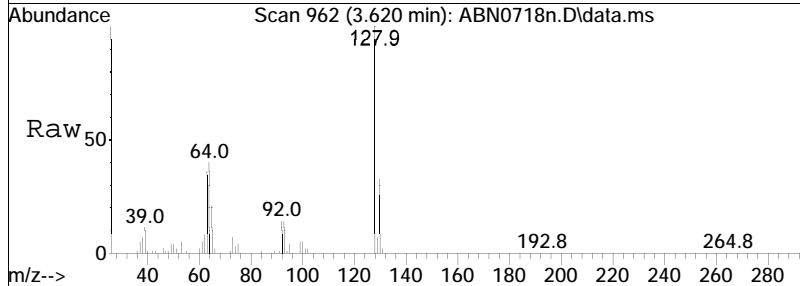
Tgt Ion:	93	Resp:	484735
Ion Ratio	Lower	Upper	
93	100		
66	36.4	37.3	55.9#
65	18.9	16.7	25.1

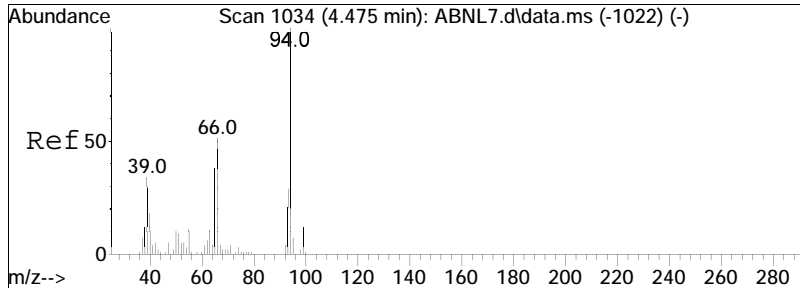




#6
 2-Chlorophenol
 Concen: 47.09 ug/ml
 RT: 3.620 min Scan# 962
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

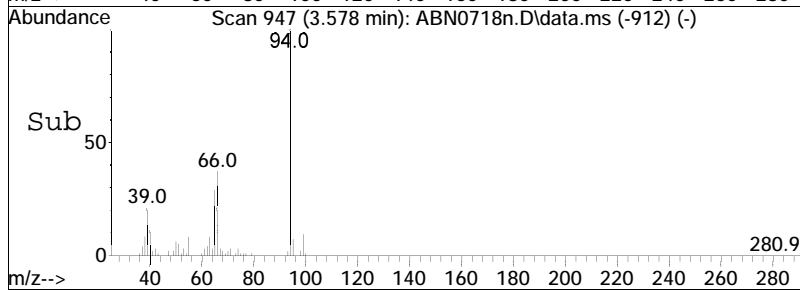
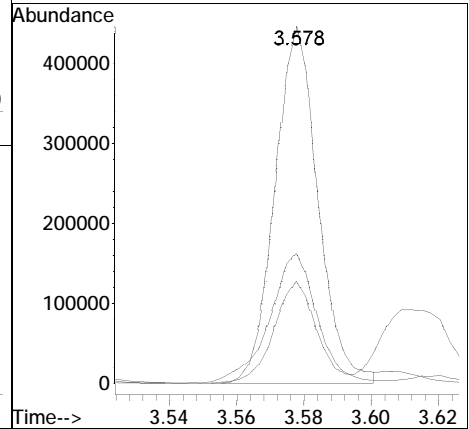
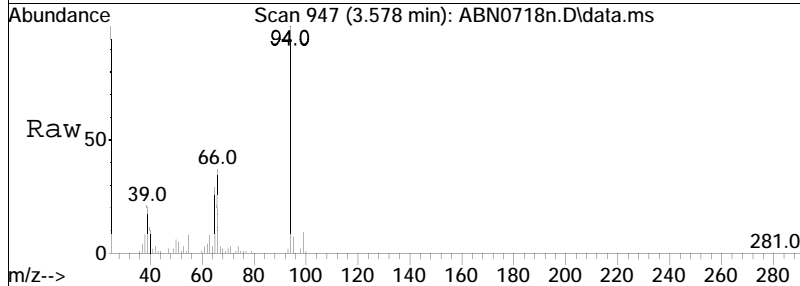
Tgt Ion	Ratio	Lower	Upper
128	100		
64	42.3	42.7	64.1#
130	32.3	25.8	38.6

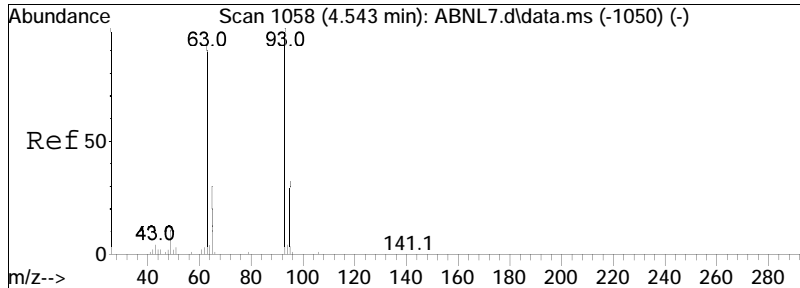




#8
 Phenol
 Concen: 43.34 ug/ml
 RT: 3.578 min Scan# 947
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

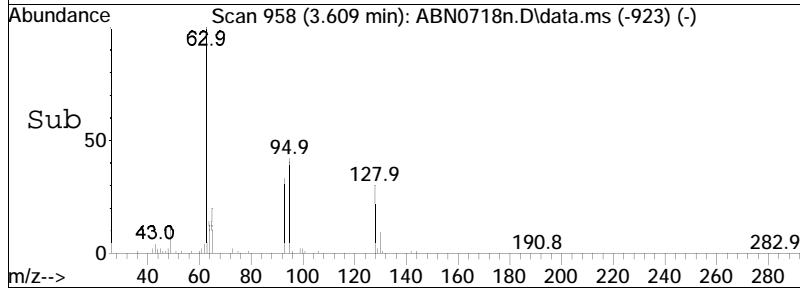
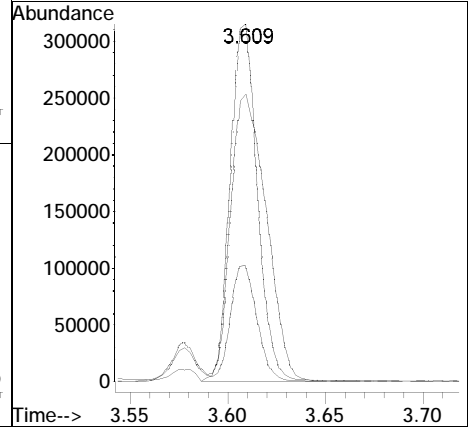
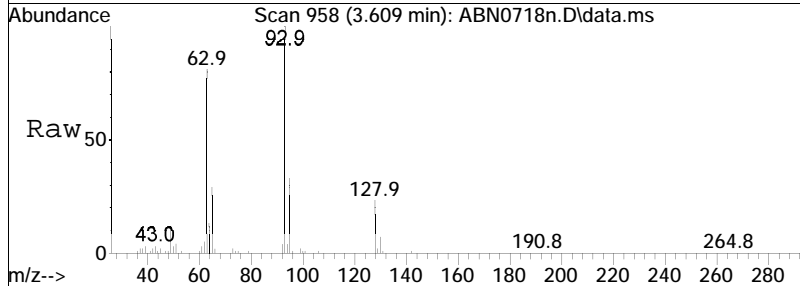
Tgt Ion:	94	Resp:	395027
Ion Ratio	Lower	Upper	
94	100		
65	28.8	20.5	30.7
66	40.9	0.0	0.0#

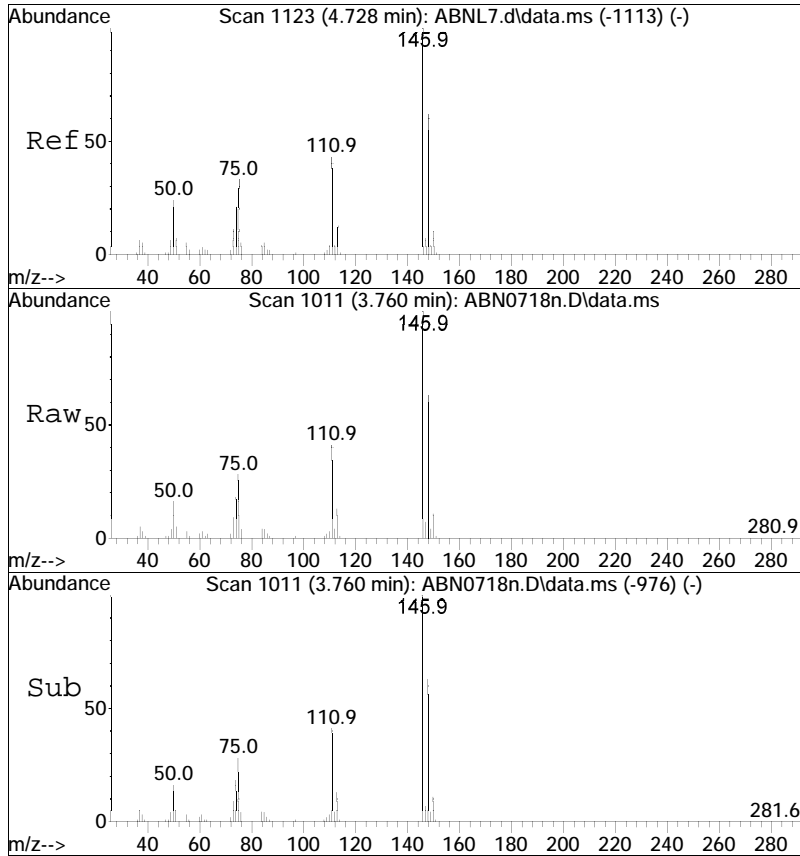




#9
 Bis(2-chloroethyl)ether
 Concen: 47.08 ug/ml
 RT: 3.609 min Scan# 958
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

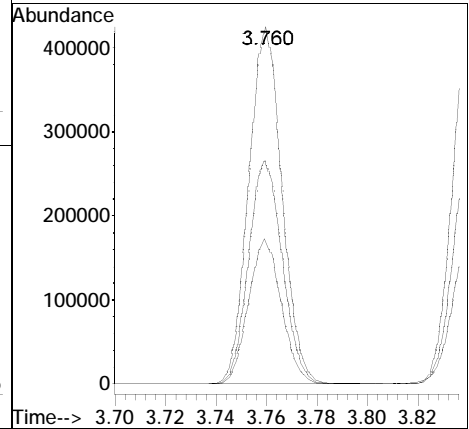
Tgt Ion	Resp	Lower	Upper
93	100		
63	105.0	70.4	105.6
95	31.9	25.8	38.6

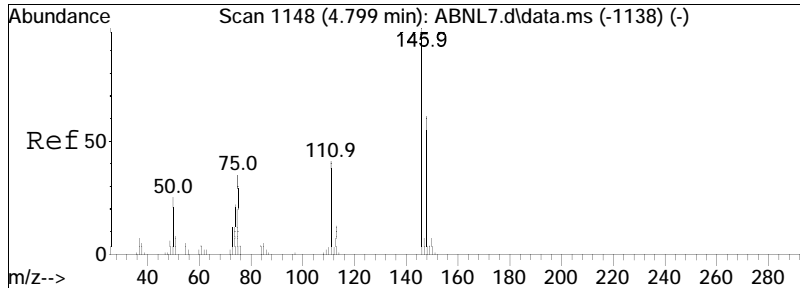




#10
 1,3-Dichlorobenzene
 Concen: 44.91 ug/ml
 RT: 3.760 min Scan# 1011
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

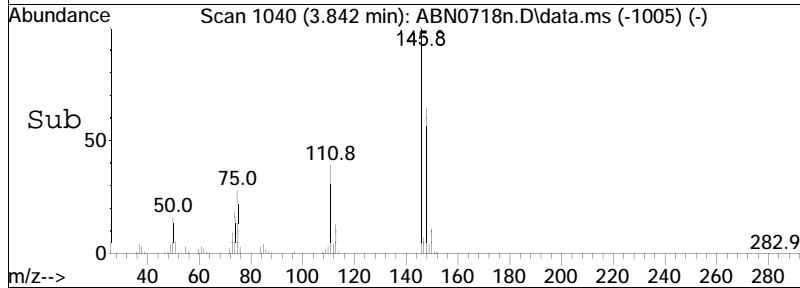
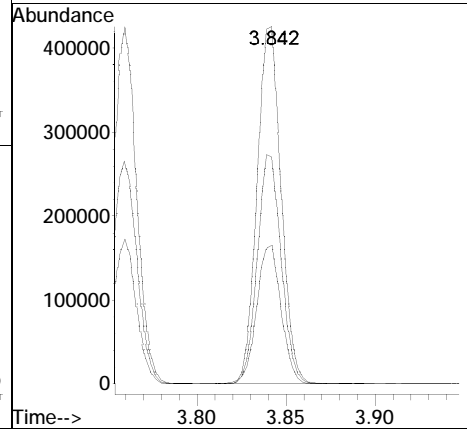
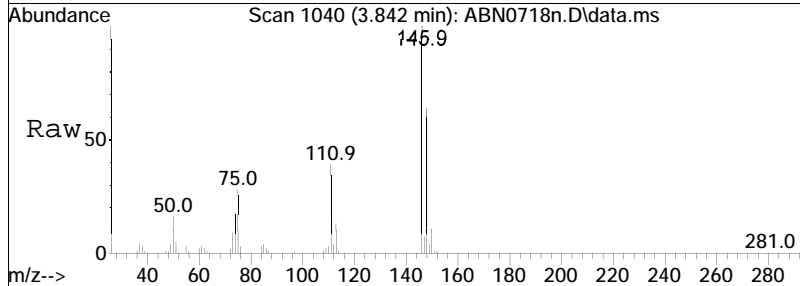
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	35.8	53.6
148	63.4	51.2	76.8

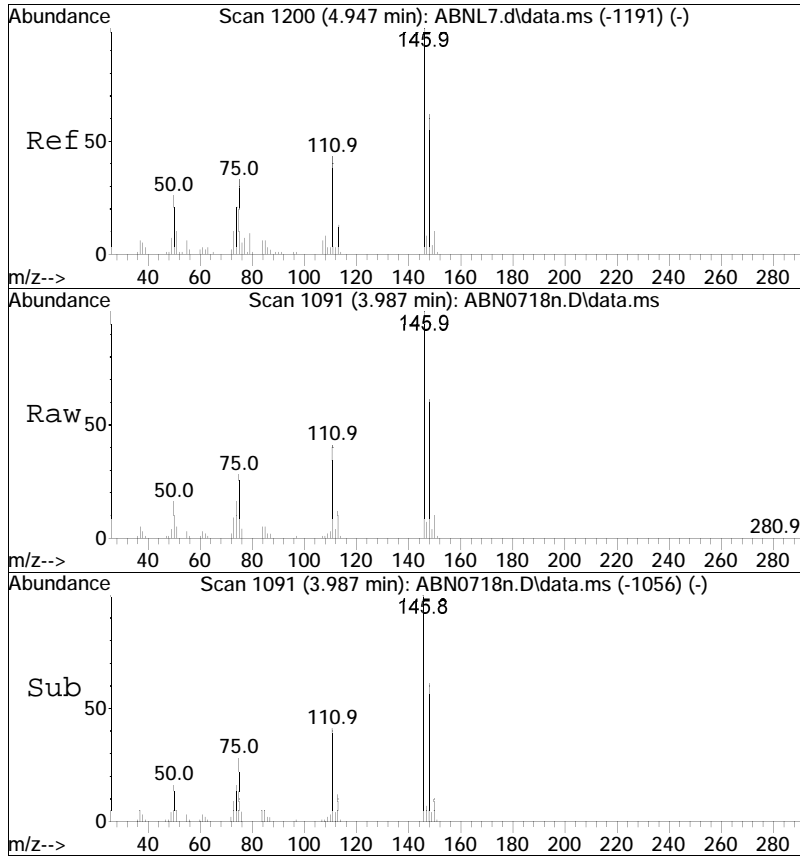




#11
 1,4-Dichlorobenzene
 Concen: 45.09 ug/ml
 RT: 3.842 min Scan# 1040
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

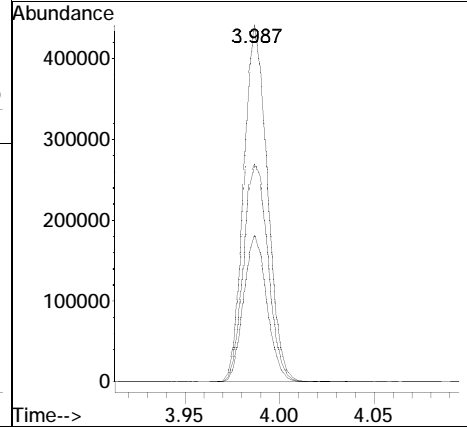
Tgt Ion	Resp	Lower	Upper
146	400687		
146	100		
148	63.7	51.6	77.4
111	39.6	35.3	52.9

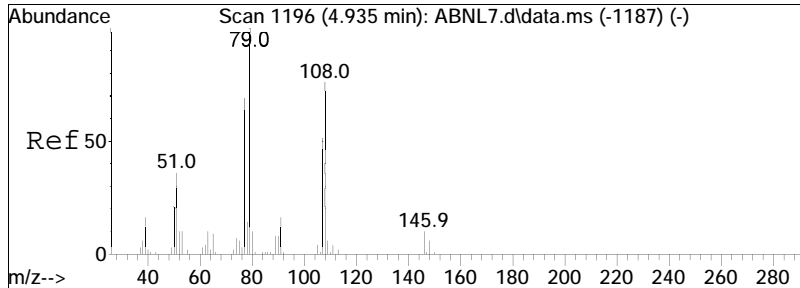




#12
 1,2-Dichlorobenzene
 Concen: 45.13 ug/ml
 RT: 3.987 min Scan# 1091
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

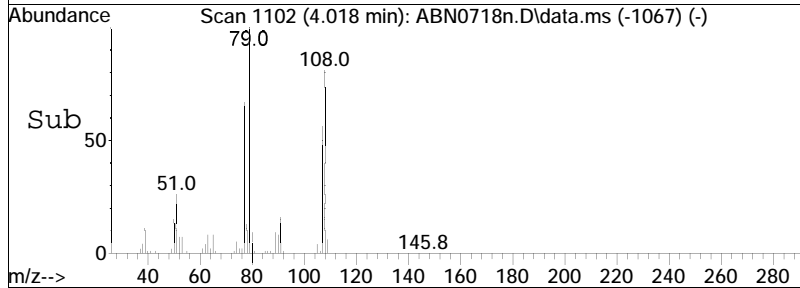
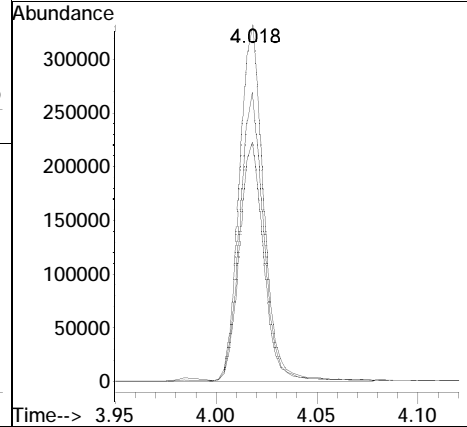
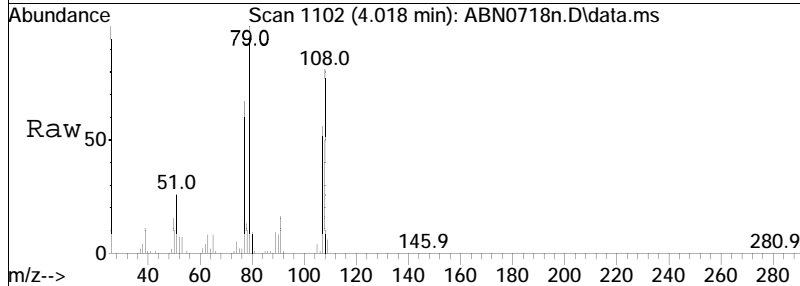
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.0	36.0	54.0
148	63.5	49.9	74.9

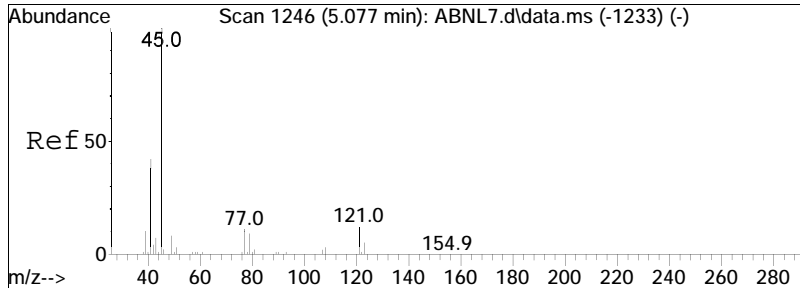




#13
 Benzyl alcohol
 Concen: 54.99 ug/ml
 RT: 4.018 min Scan# 1102
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

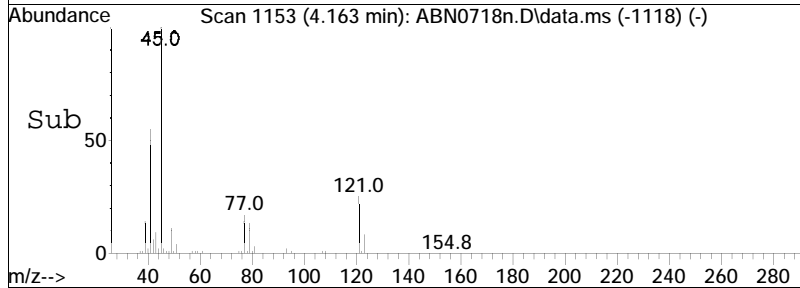
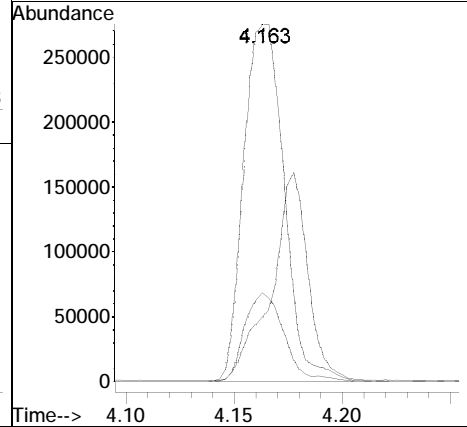
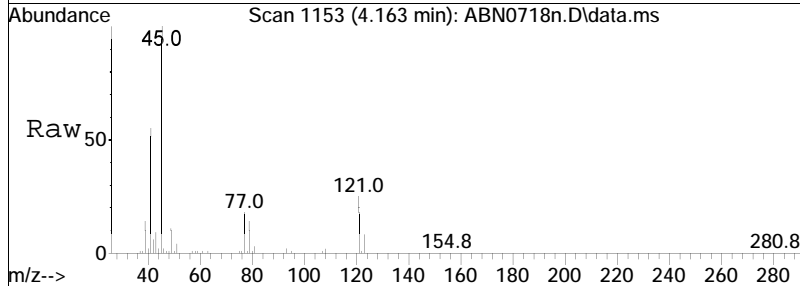
Tgt Ion:	79	Resp:	278889
Ion Ratio	Lower	Upper	
79	100		
77	66.2	52.3	78.5
108	78.8	60.2	90.4

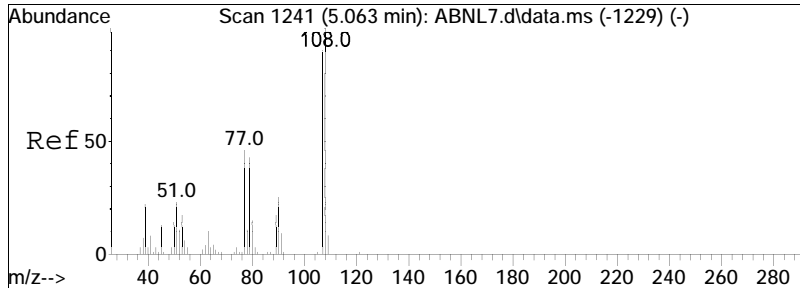




#14
 Bis(2-chloroisopropyl) ether
 Concen: 34.47 ug/ml
 RT: 4.163 min Scan# 1153
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

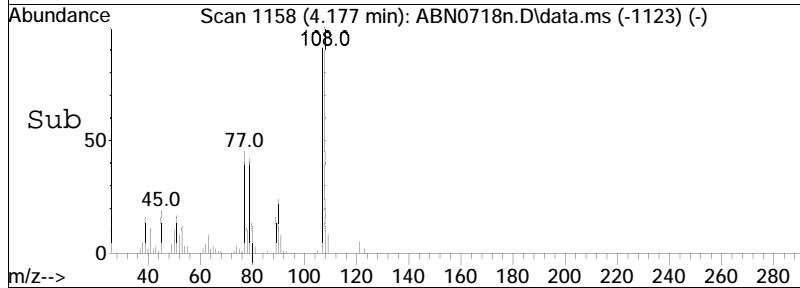
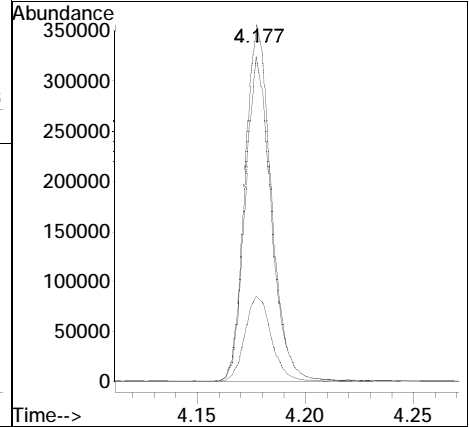
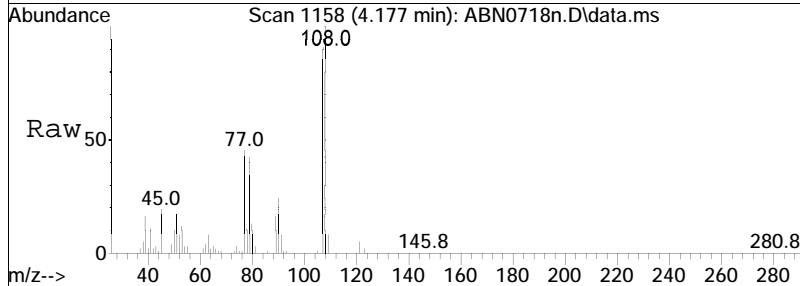
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
45	100		
121	24.2	12.6	19.0#
77	53.3	26.4	39.6#

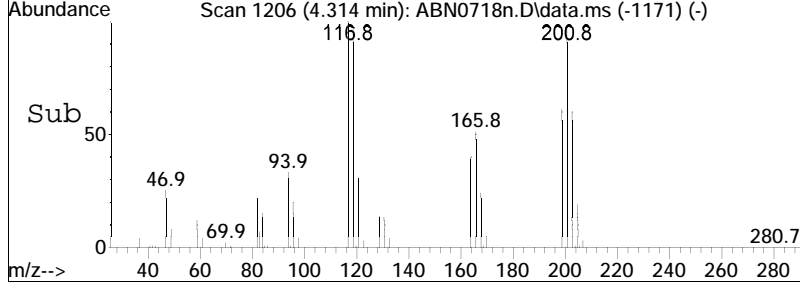
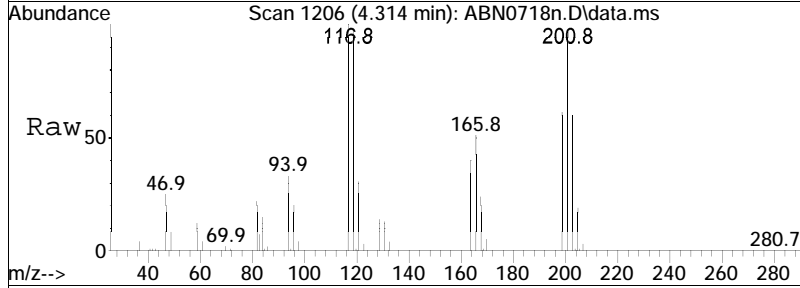
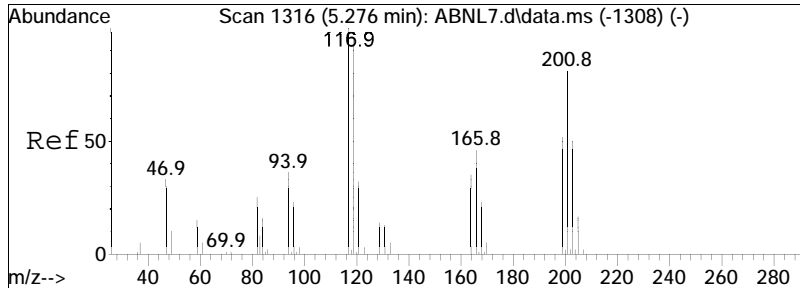




#15
 2-Methylphenol
 Concen: 47.53 ug/ml
 RT: 4.177 min Scan# 1158
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

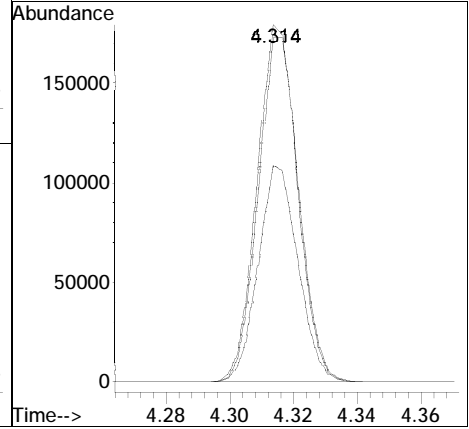
Tgt Ion	Ratio	Lower	Upper
108	100		
107	89.8	72.8	109.2
90	24.0	20.2	30.4

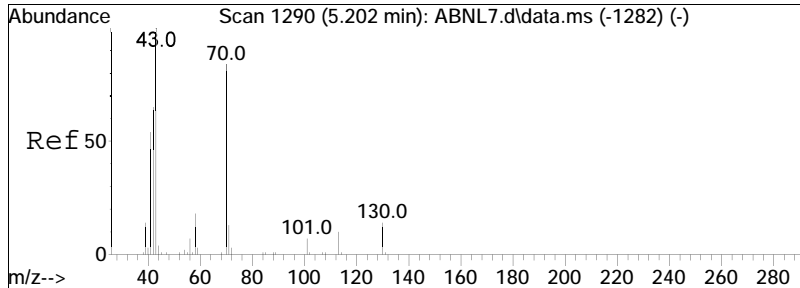




#16
 Hexachloroethane
 Concen: 51.34 ug/ml
 RT: 4.314 min Scan# 1206
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

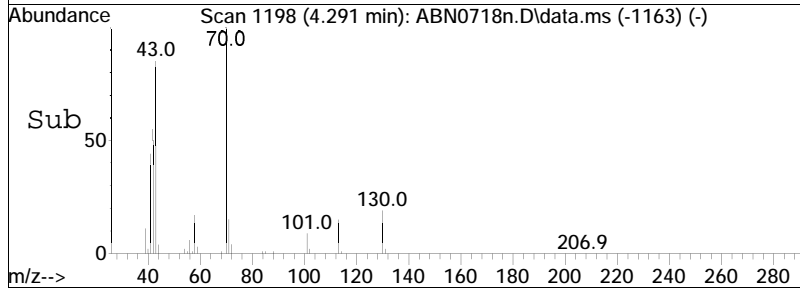
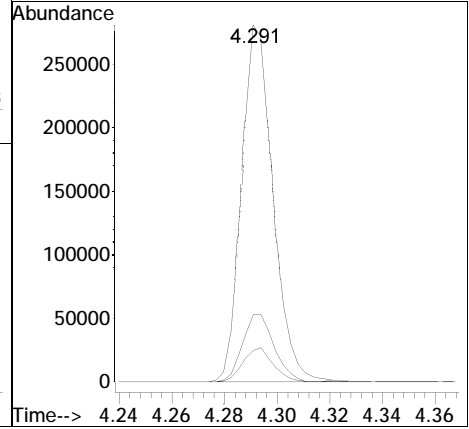
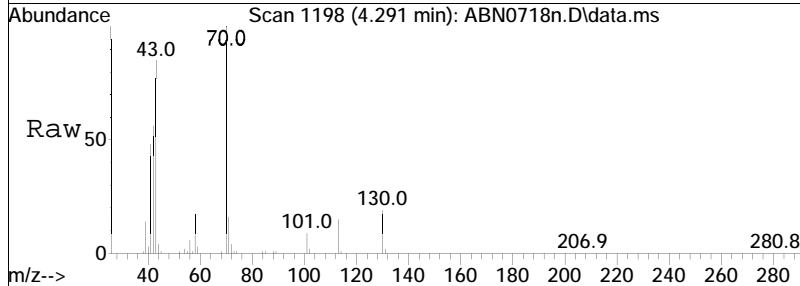
Tgt Ion	Resp	Lower	Upper
117	100		
201	97.0	64.5	96.7#
199	59.9	40.3	60.5

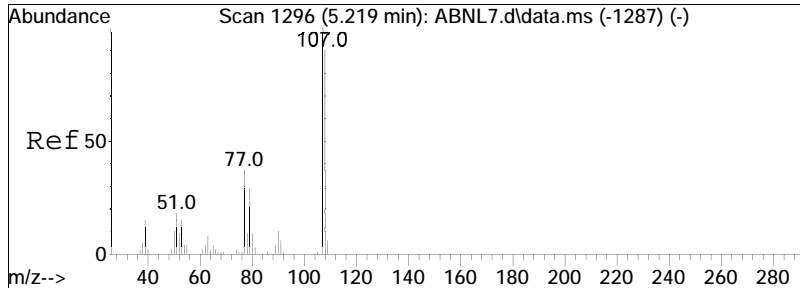




#17
 n-Nitrosodi-n-propylamine
 Concen: 52.23 ug/ml
 RT: 4.291 min Scan# 1198
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

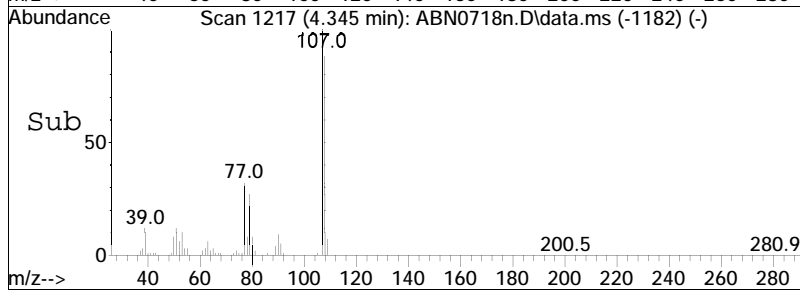
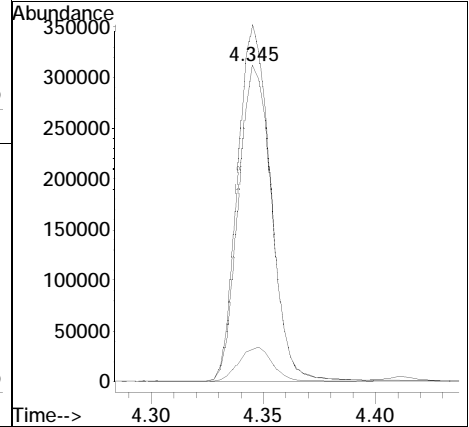
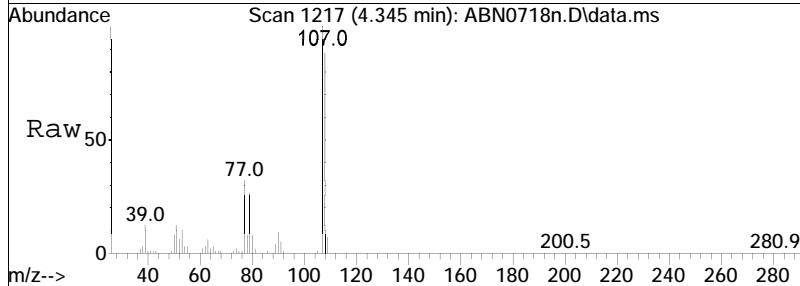
Tgt Ion:	70	Resp:	231908
Ion Ratio	Lower	Upper	
70	100		
130	18.9	15.0	22.4
101	9.2	7.4	11.0

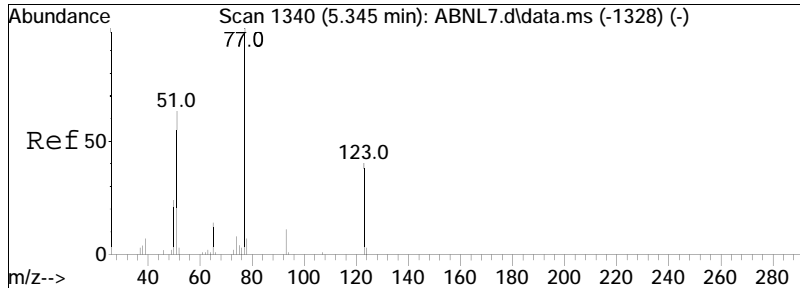




#18
 3-Methylphenol/4-Methylphenol
 Concen: 48.45 ug/ml
 RT: 4.345 min Scan# 1217
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

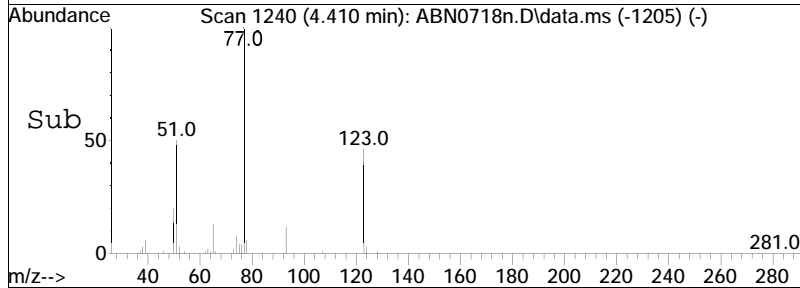
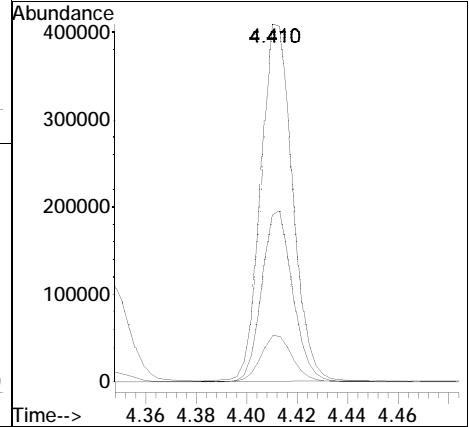
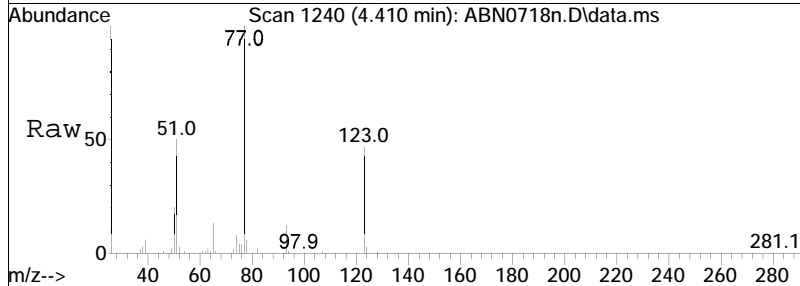
Tgt Ion	Resp	Lower	Upper
108	100		
107	111.1	90.4	135.6
90	10.9	9.2	13.8

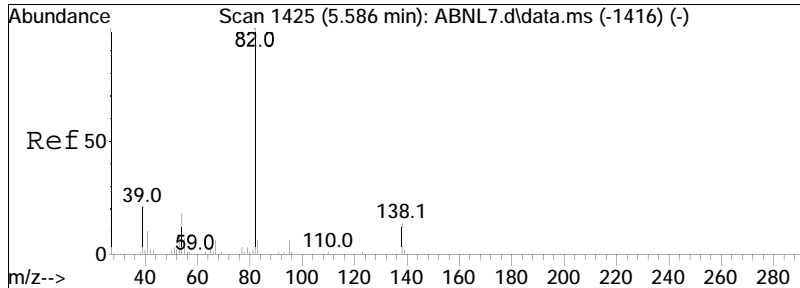




#20
 Nitrobenzene
 Concen: 52.91 ug/ml
 RT: 4.410 min Scan# 1240
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

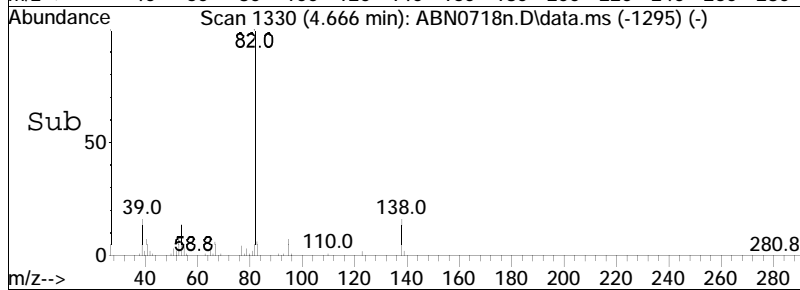
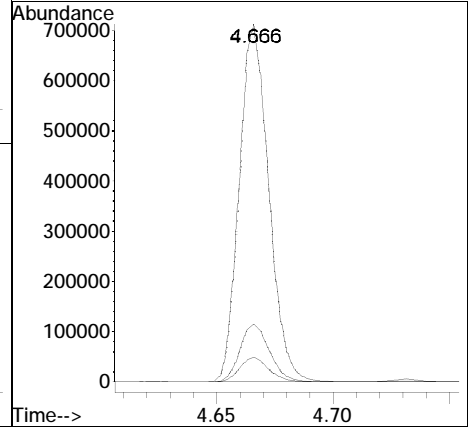
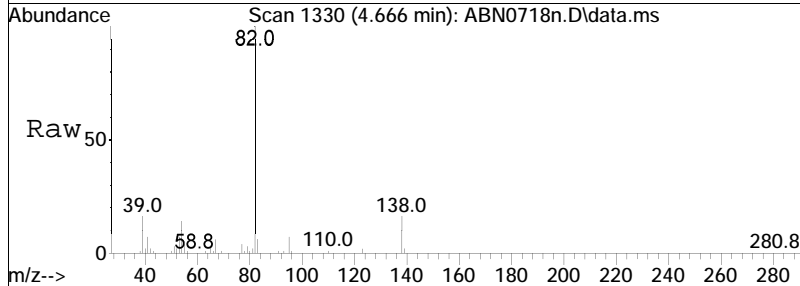
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
77	100		
123	47.0	35.0	52.4
65	13.1	11.5	17.3

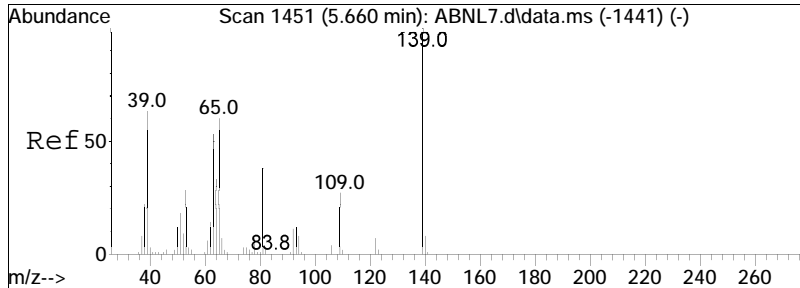




#21
 Isophorone
 Concen: 51.07 ug/ml
 RT: 4.666 min Scan# 1330
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

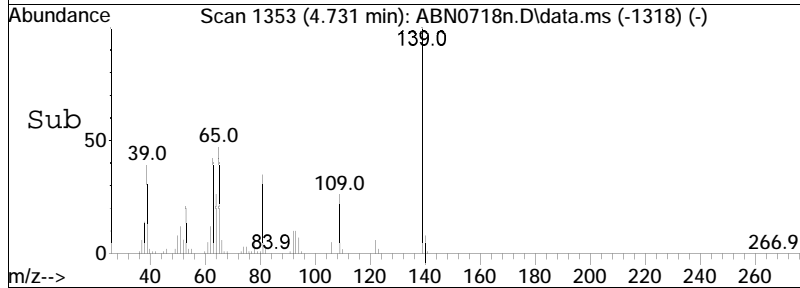
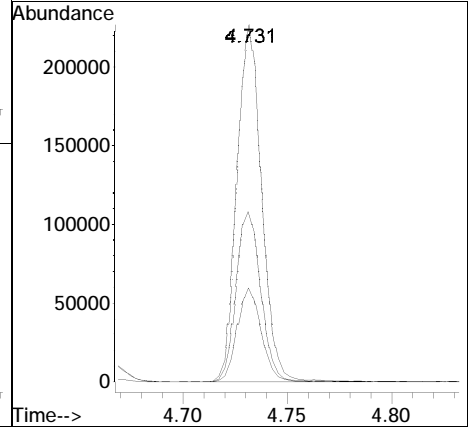
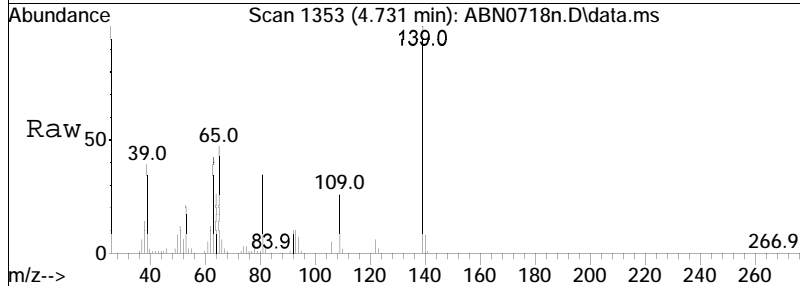
Tgt Ion	Resp	Lower	Upper
82	100		
138	16.1	12.8	19.2
95	6.8	5.5	8.3

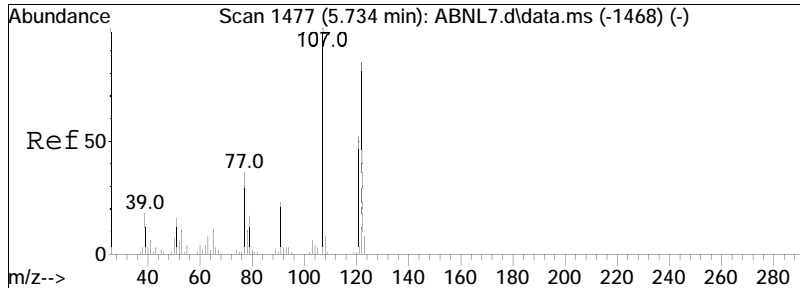




#22
 2-Nitrophenol
 Concen: 57.00 ug/ml
 RT: 4.731 min Scan# 1353
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

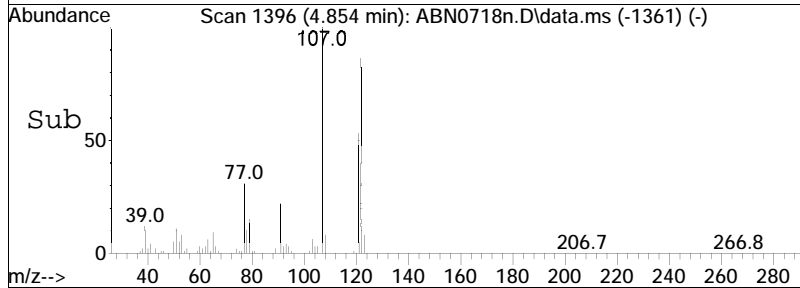
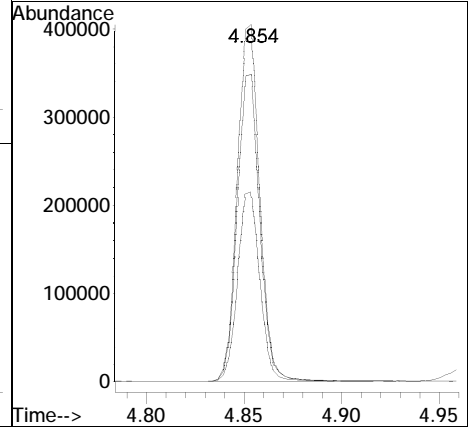
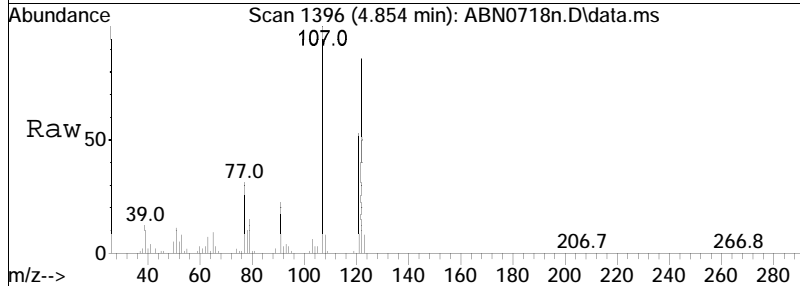
Tgt Ion	Resp	Lower	Upper
139	100		
109	25.6	24.8	37.2
65	47.3	45.5	68.3

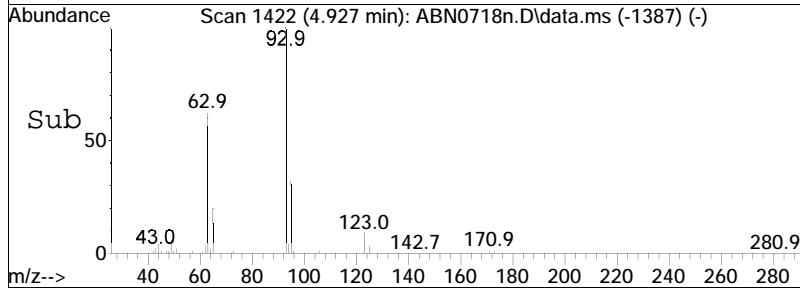
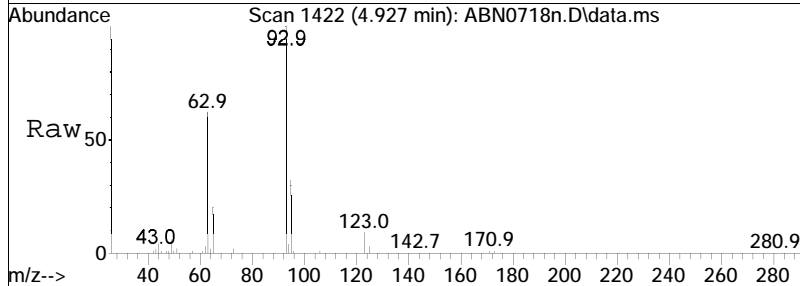
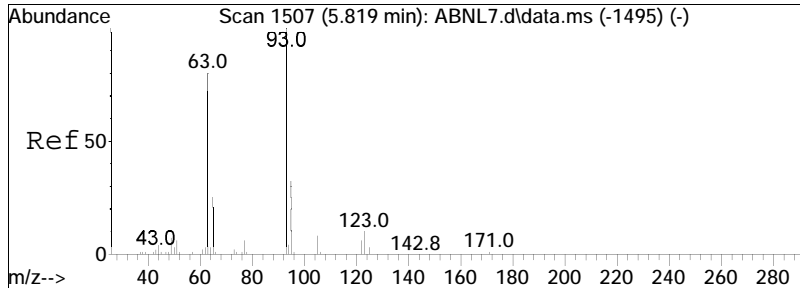




#23
 2,4-Dimethylphenol
 Concen: 46.90 ug/ml
 RT: 4.854 min Scan# 1396
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

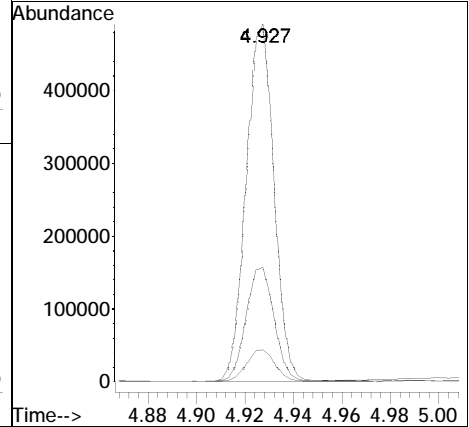
Tgt Ion	Resp	Lower	Upper
107	100		
121	52.9	39.7	59.5
122	86.5	66.8	100.2

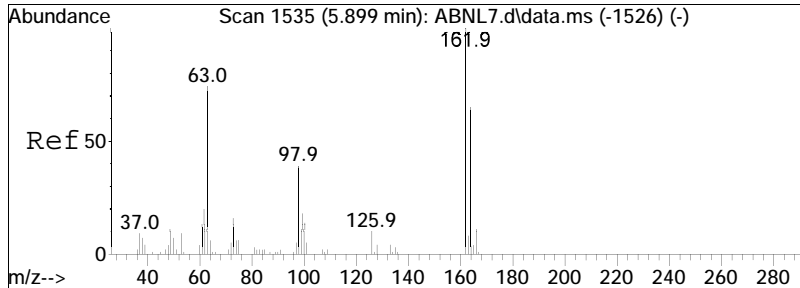




#24
 Bis(2-chloroethoxy)methane
 Concen: 49.35 ug/ml
 RT: 4.927 min Scan# 1422
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

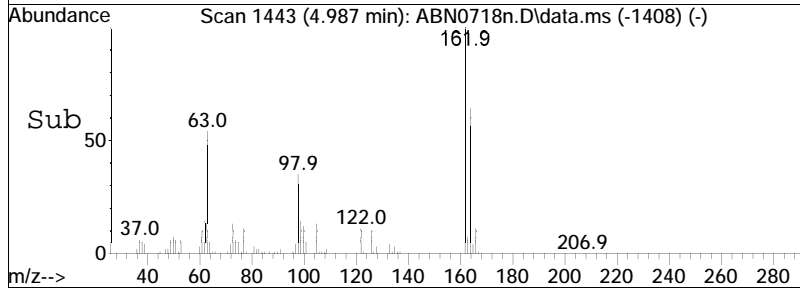
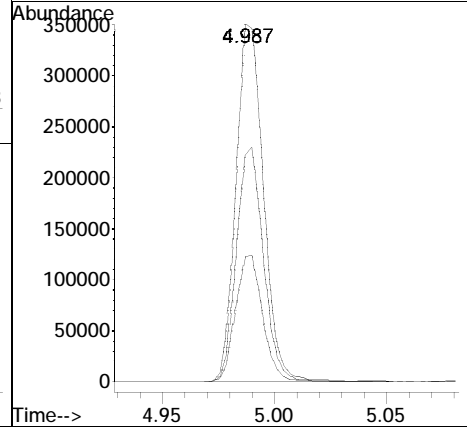
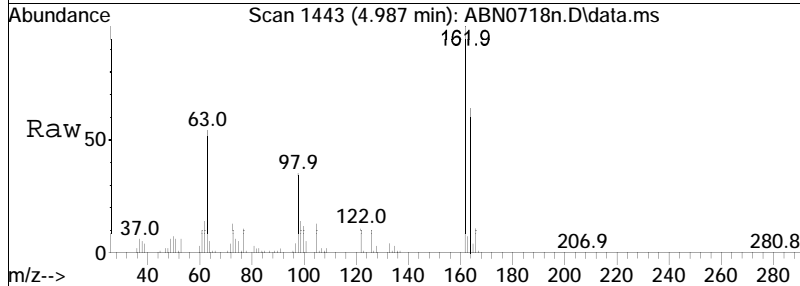
Tgt Ion:	93	Resp:	387942
Ion Ratio	Lower	Upper	
93	100		
95	32.4	26.1	39.1
123	9.2	9.8	14.8#

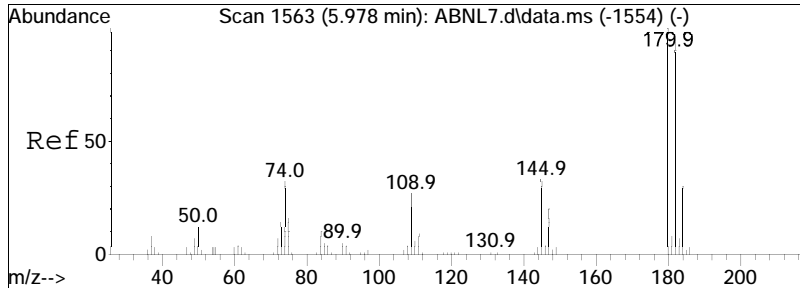




#25
 2,4-Dichlorophenol
 Concen: 48.73 ug/ml
 RT: 4.987 min Scan# 1443
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

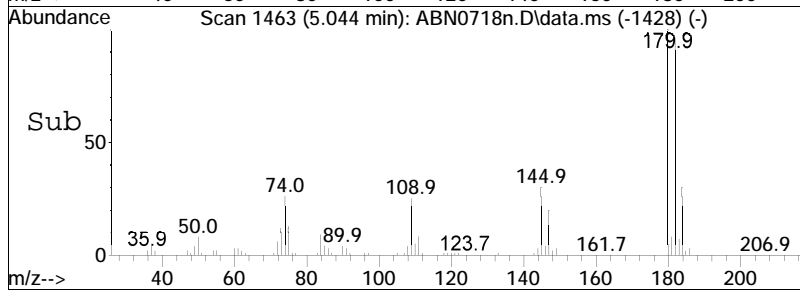
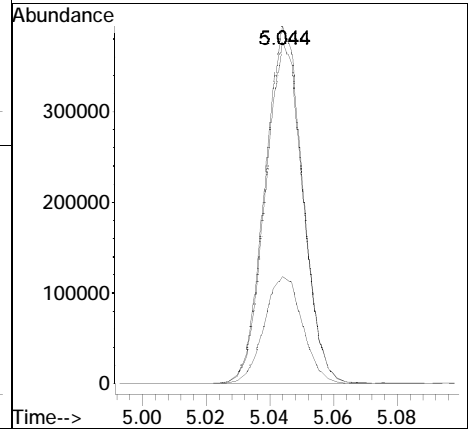
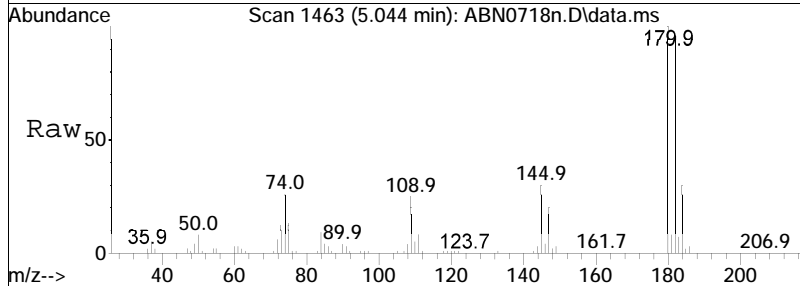
Tgt Ion:	162	Resp:	296005
Ion Ratio	Lower	Upper	
162	100		
164	64.7	50.4	75.6
98	35.2	31.6	47.4

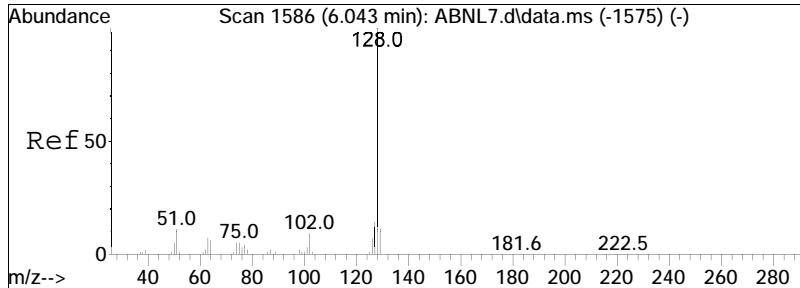




#26
 1,2,4-Trichlorobenzene
 Concen: 46.59 ug/ml
 RT: 5.044 min Scan# 1463
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

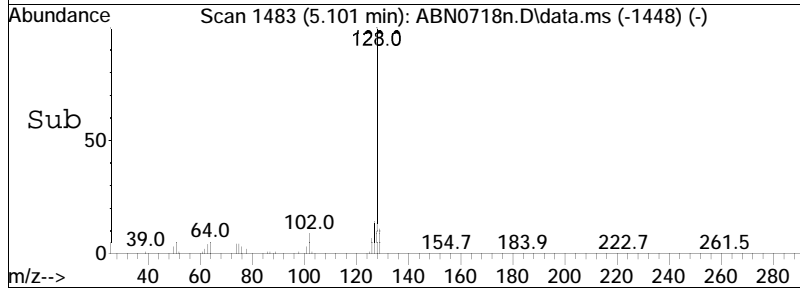
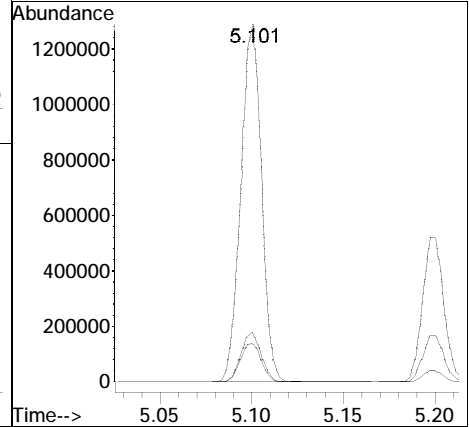
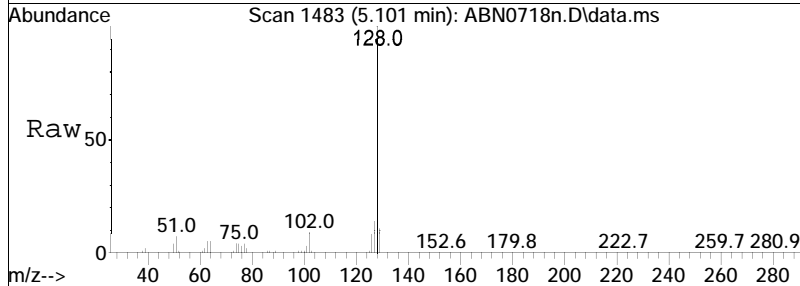
Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	74.7	112.1
145	30.6	26.6	39.8

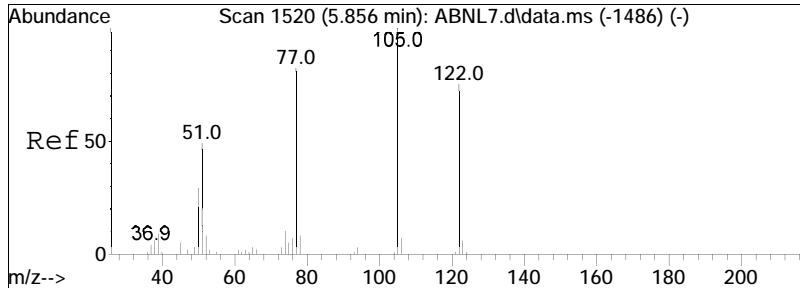




#36
 Naphthalene
 Concen: 43.83 ug/ml
 RT: 5.101 min Scan# 1483
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

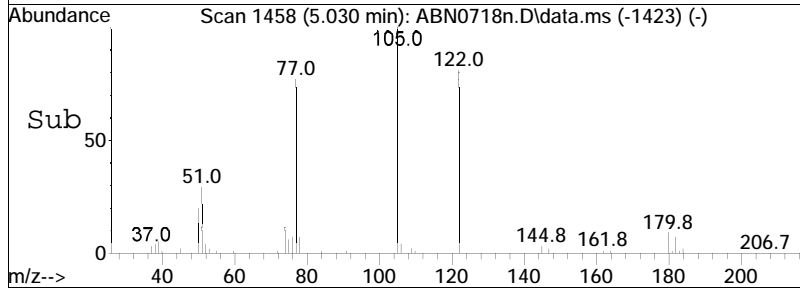
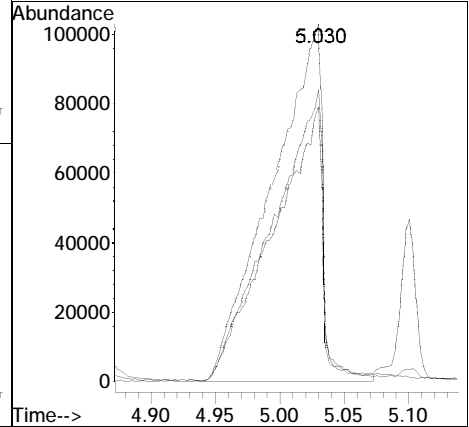
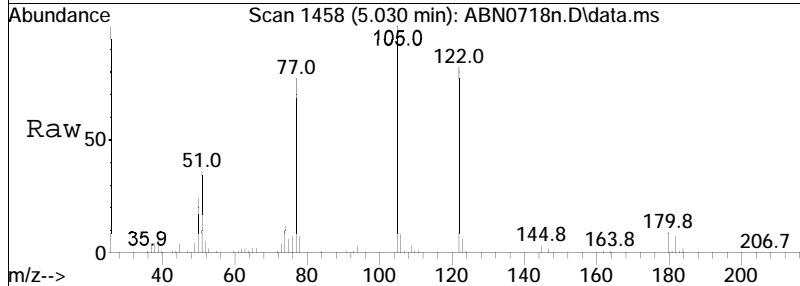
Tgt Ion	Resp	Lower	Upper
128	100		
129	11.1	8.7	13.1
127	13.7	10.7	16.1

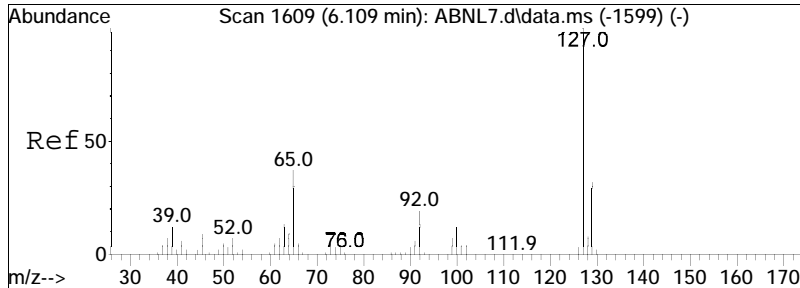




#37
 Benzoic Acid
 Concen: 57.67 ug/ml
 RT: 5.030 min Scan# 1458
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

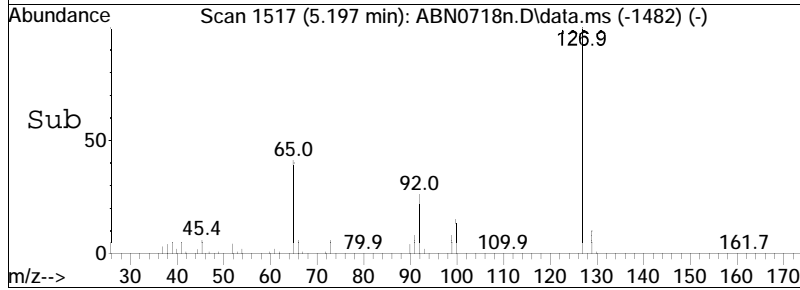
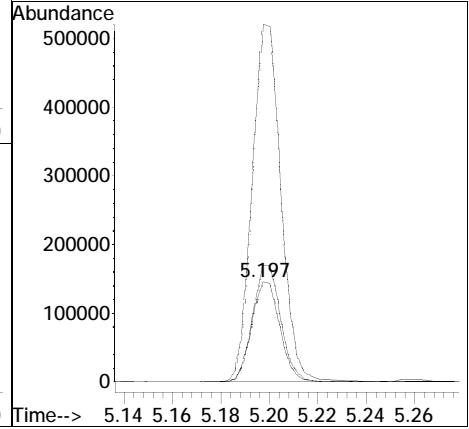
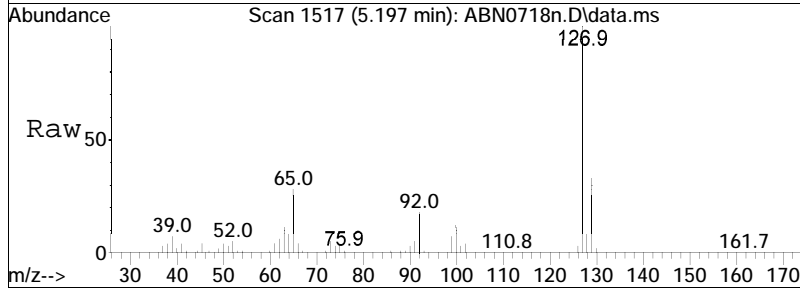
Tgt Ion	Ratio	Lower	Upper
105	100		
122	81.2	61.8	92.6
77	74.4	62.2	93.4

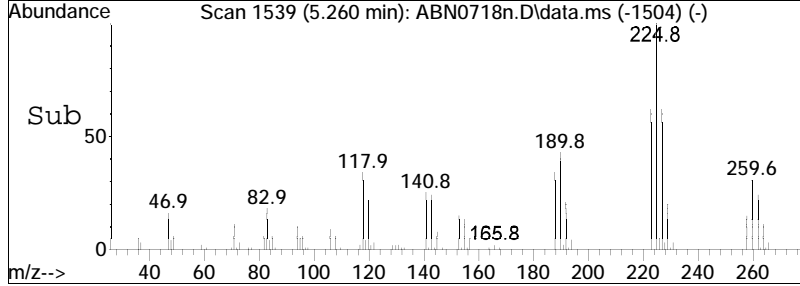
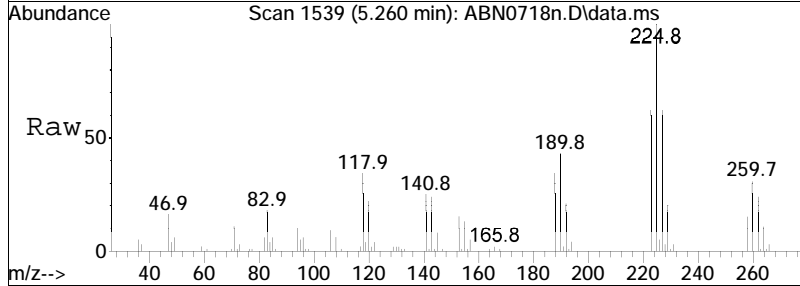
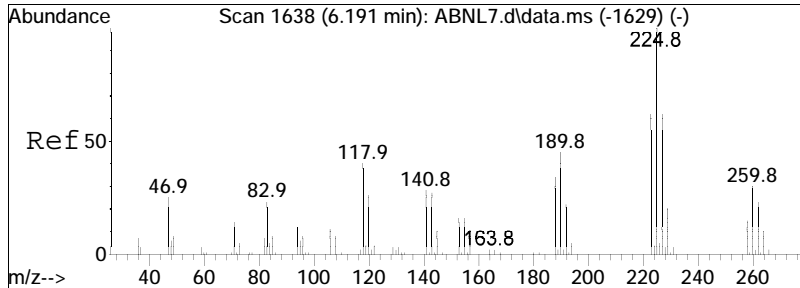




#38
 4-Chloroaniline
 Concen: 49.91 ug/ml
 RT: 5.197 min Scan# 1517
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

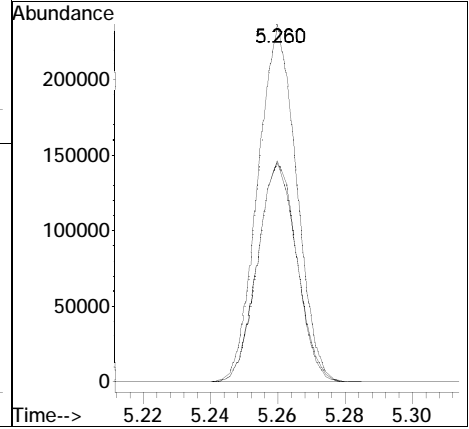
Tgt Ion:	Resp:	Lower	Upper
65	100		
127	360.1	233.2	349.8#
129	115.5	74.6	111.8#

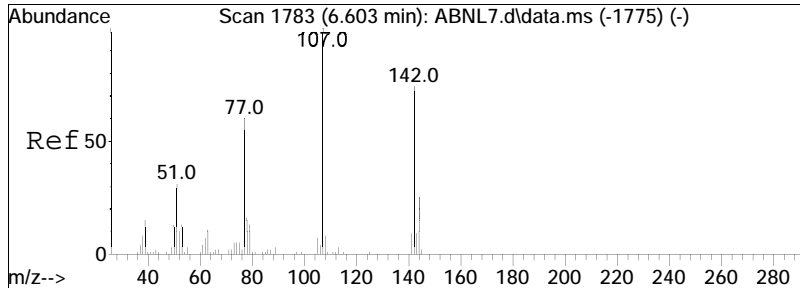




#39
 Hexachlorobutadiene
 Concen: 49.58 ug/ml
 RT: 5.260 min Scan# 1539
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

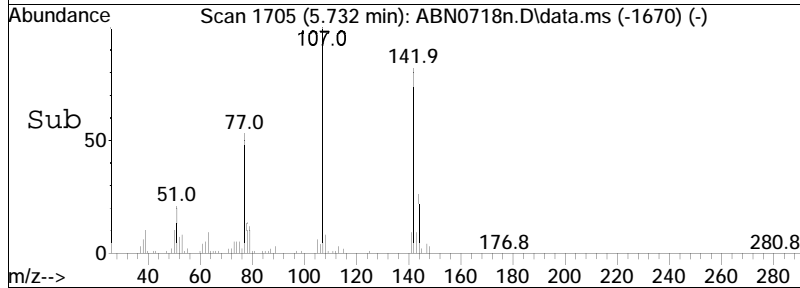
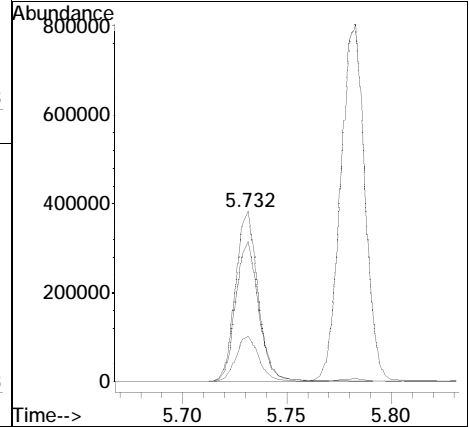
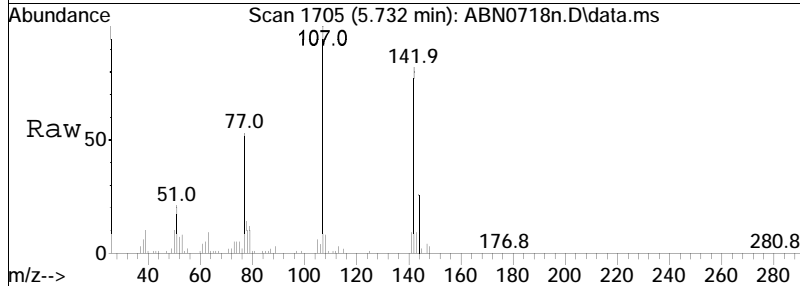
Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.0	49.4	74.0
227	62.9	50.8	76.2

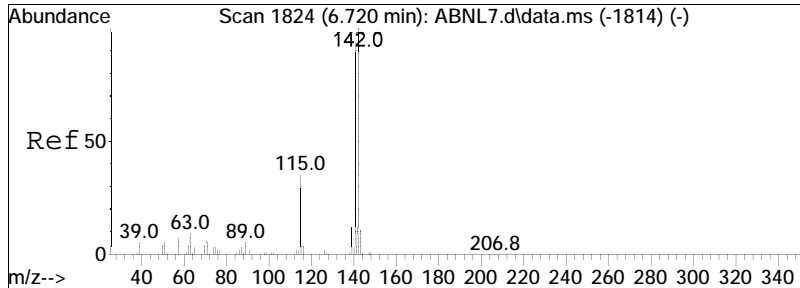




#40
 p-Chloro-m-cresol
 Concen: 50.70 ug/ml
 RT: 5.732 min Scan# 1705
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

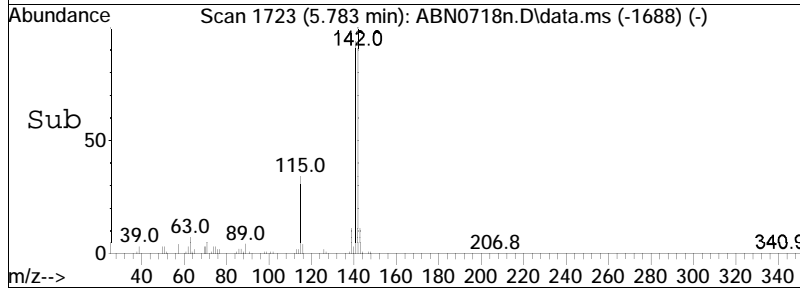
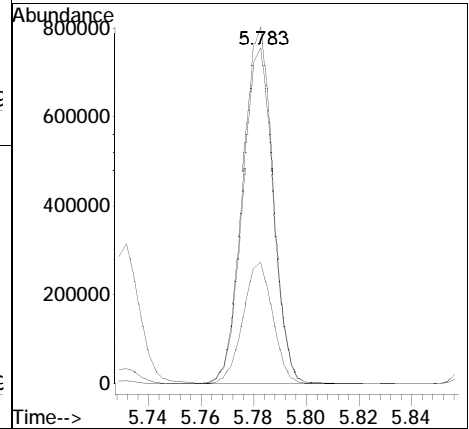
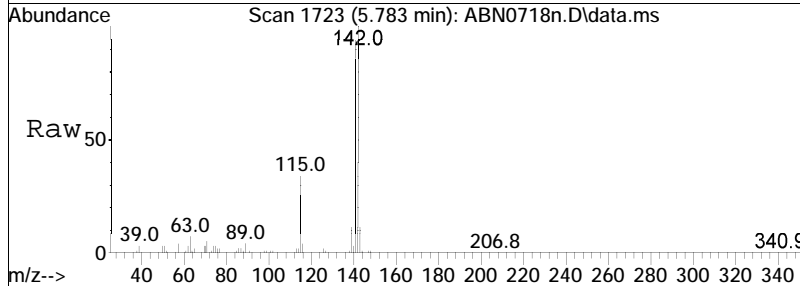
Tgt Ion	Resp	Lower	Upper
107	100		
144	26.9	19.6	29.4
142	83.0	62.2	93.4

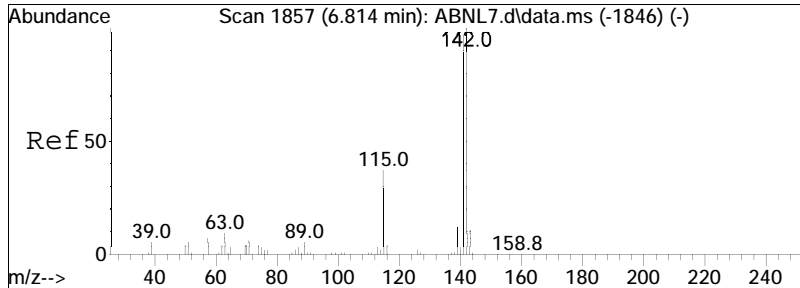




#41
 2-Methylnaphthalene
 Concen: 45.18 ug/ml
 RT: 5.783 min Scan# 1723
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

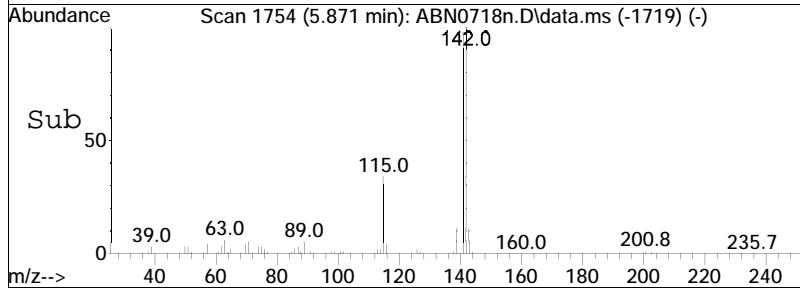
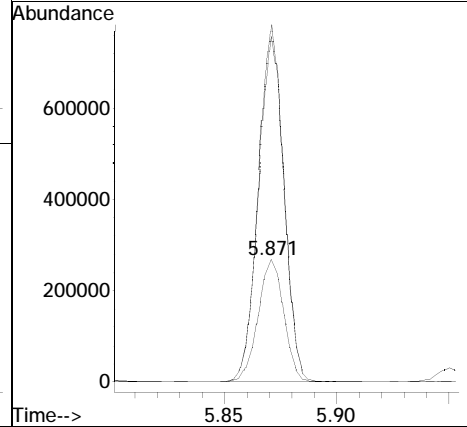
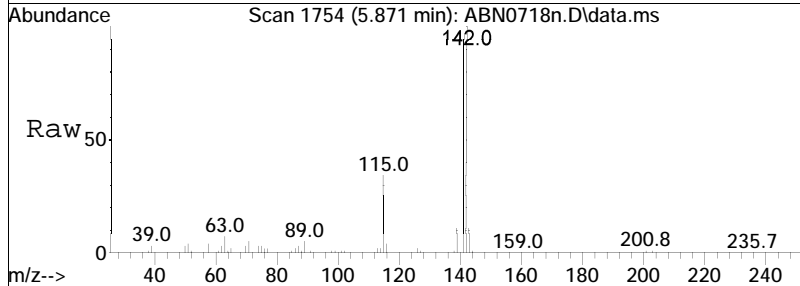
Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.0	71.8	107.8
115	33.5	29.1	43.7

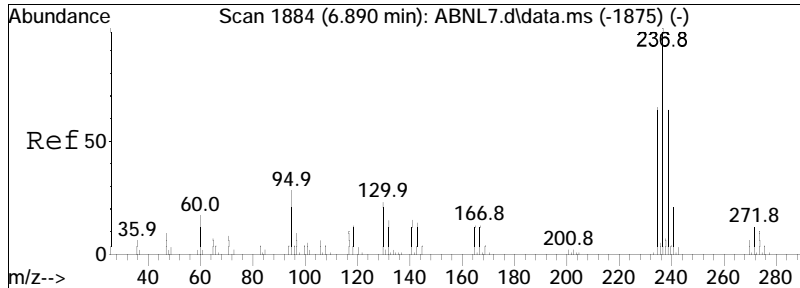




#42
 1-Methylnaphthalene
 Concen: 48.32 ug/ml
 RT: 5.871 min Scan# 1754
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

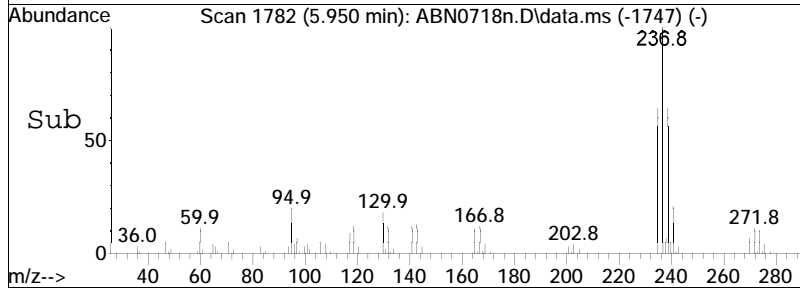
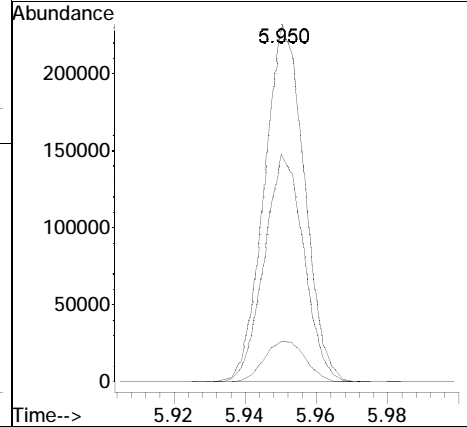
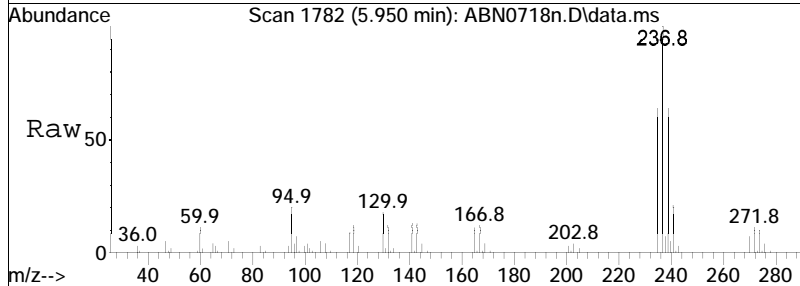
Tgt Ion	Resp	Lower	Upper
115	100		
141	278.3	196.6	294.8
142	286.7	209.2	313.8

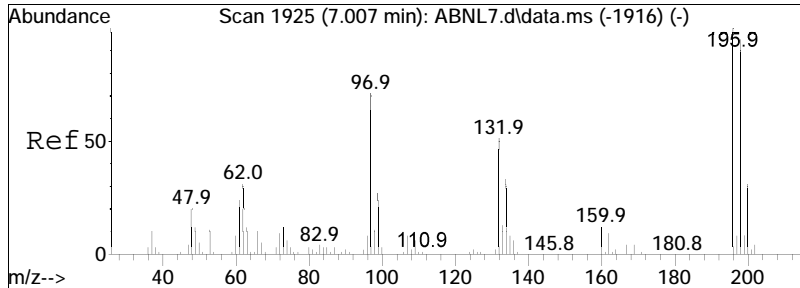




#43
 Hexachlorocyclopentadiene
 Concen: 43.67 ug/ml
 RT: 5.950 min Scan# 1782
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

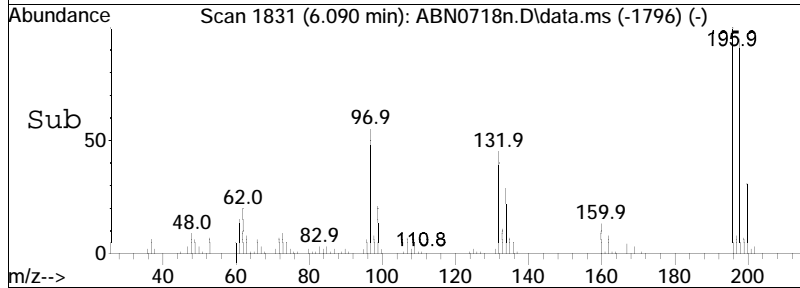
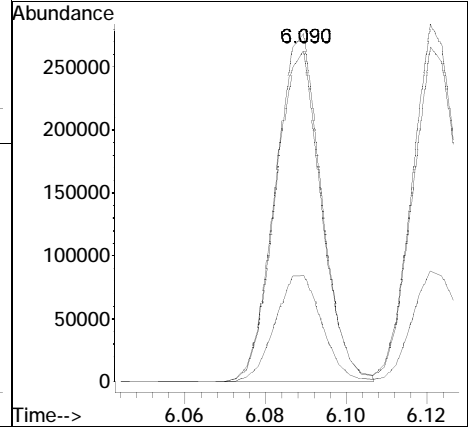
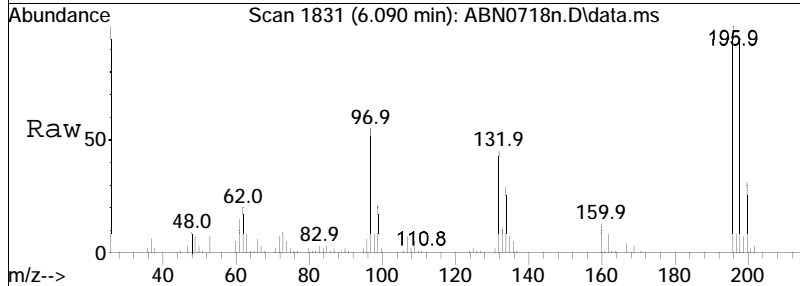
Tgt Ion	Resp	Lower	Upper
237	100		
235	63.0	47.8	71.6
272	12.0	10.4	15.6

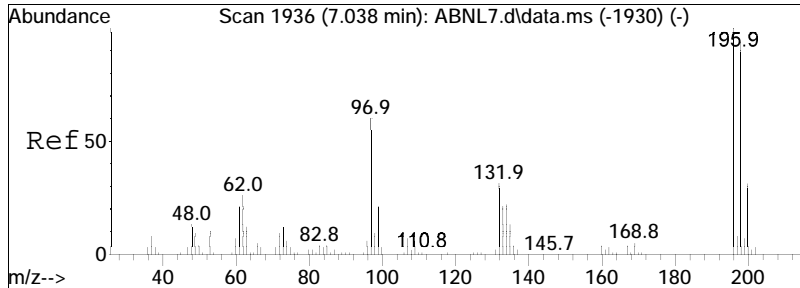




#44
 2,4,6-Trichlorophenol
 Concen: 53.81 ug/ml
 RT: 6.090 min Scan# 1831
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

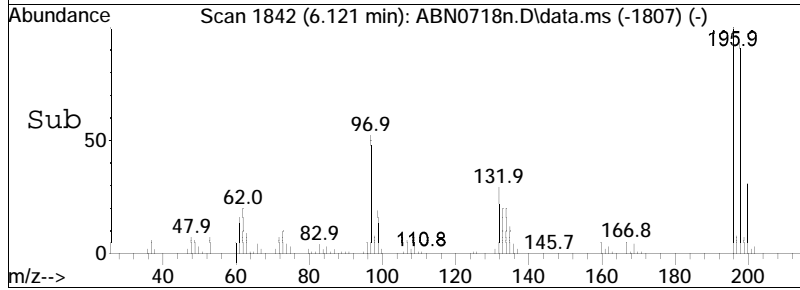
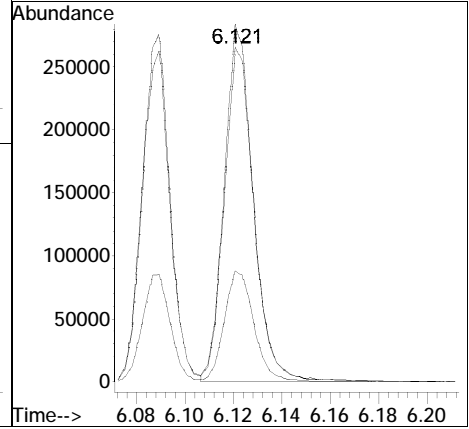
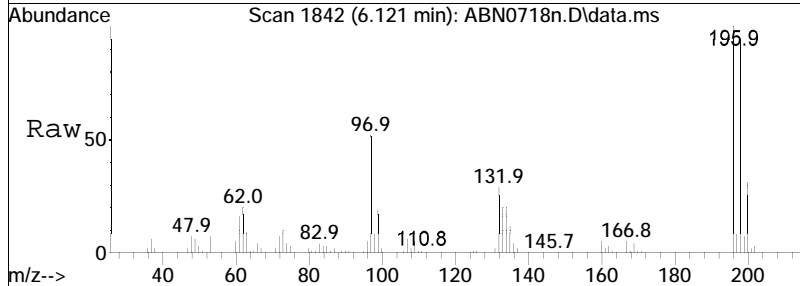
Tgt Ion	Ratio	Resp	Lower	Upper
196	100	218806		
198	94.9		81.5	122.3
200	31.2		26.2	39.2

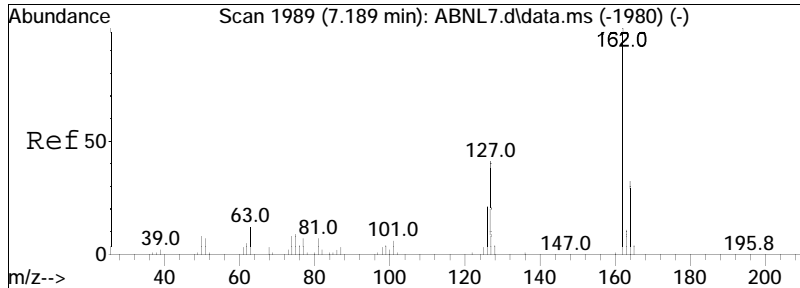




#45
 2,4,5-Trichlorophenol
 Concen: 51.73 ug/ml
 RT: 6.121 min Scan# 1842
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

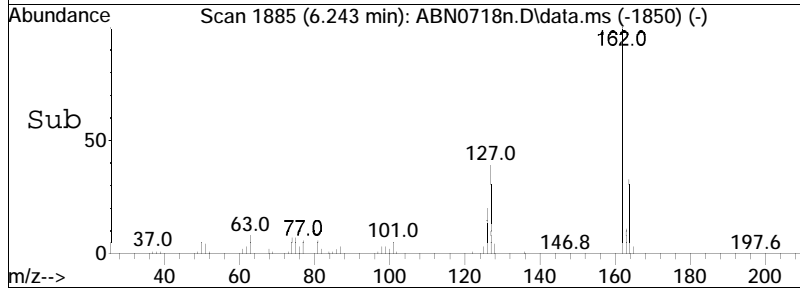
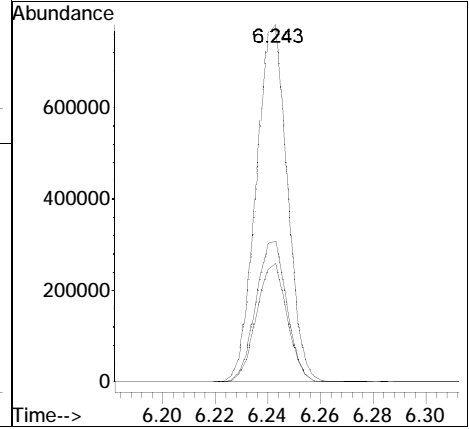
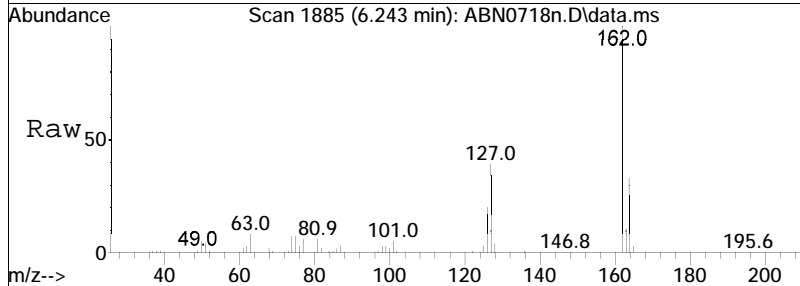
Tgt Ion	Resp	Lower	Upper
196	237688		
196	100		
200	31.3	25.5	38.3
198	94.0	79.2	118.8

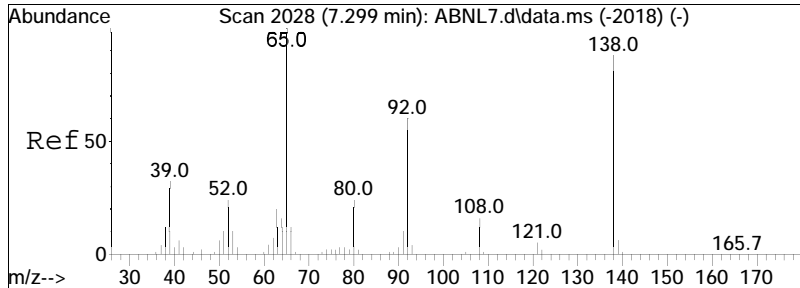




#47
 2-Chloronaphthalene
 Concen: 45.60 ug/ml
 RT: 6.243 min Scan# 1885
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

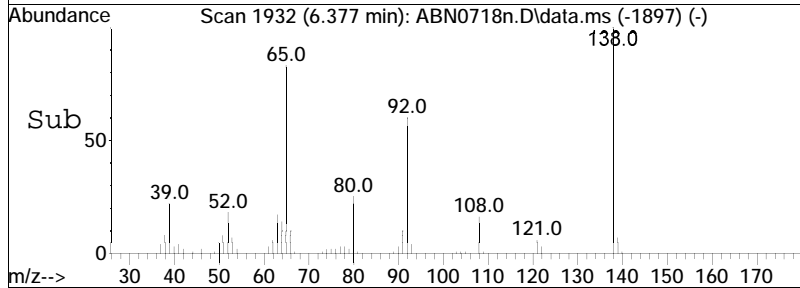
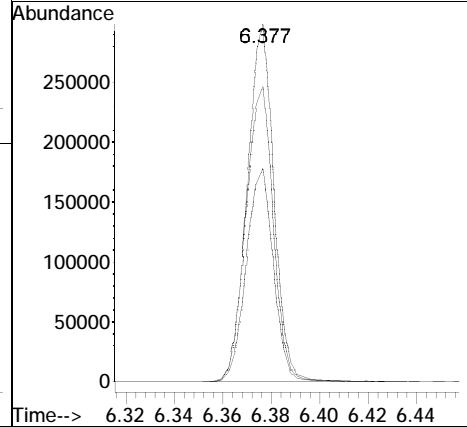
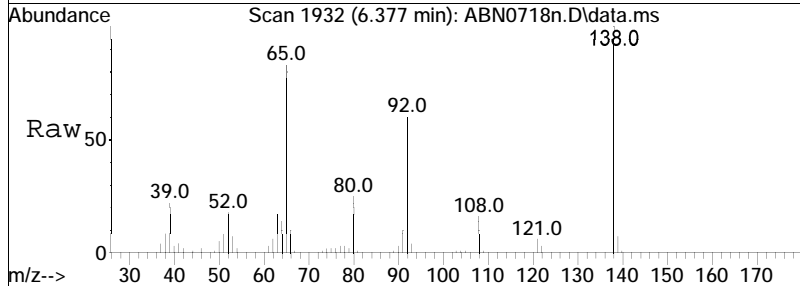
Tgt Ion	Ratio	Lower	Upper
162	100		
127	39.2	33.6	50.4
164	32.9	25.8	38.8

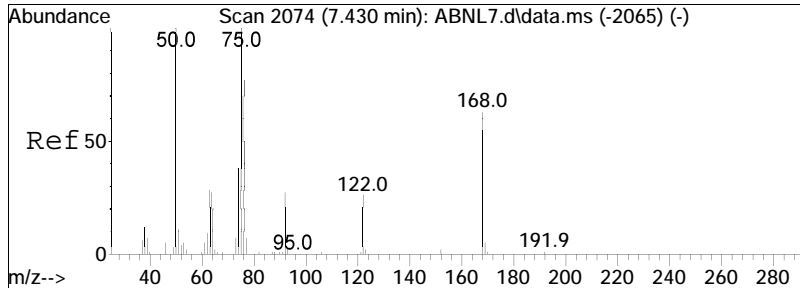




#48
 2-Nitroaniline
 Concen: 51.50 ug/ml
 RT: 6.377 min Scan# 1932
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

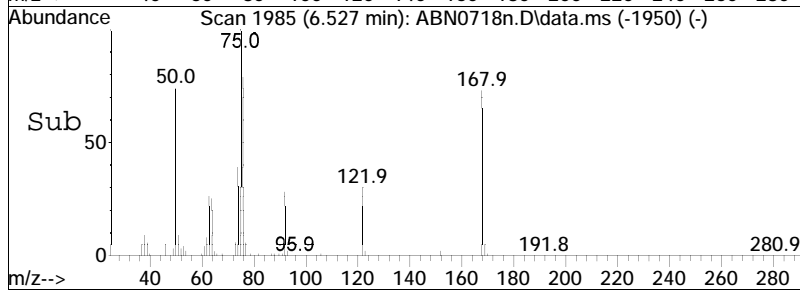
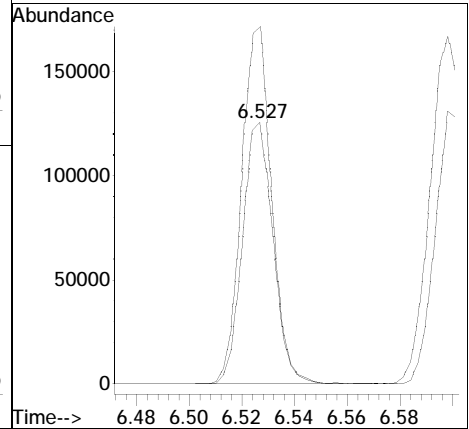
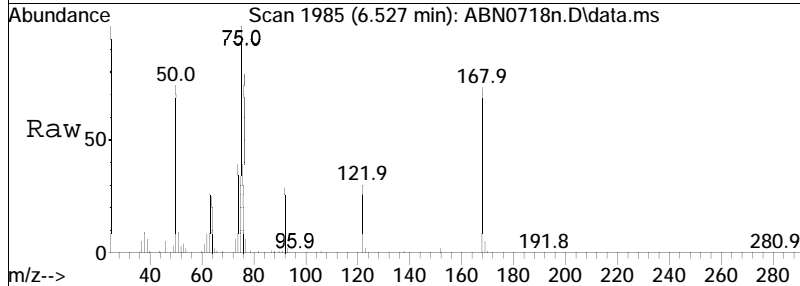
Tgt Ion	Ratio	Lower	Upper
138	100		
92	61.0	54.2	81.2
65	85.0	82.8	124.2

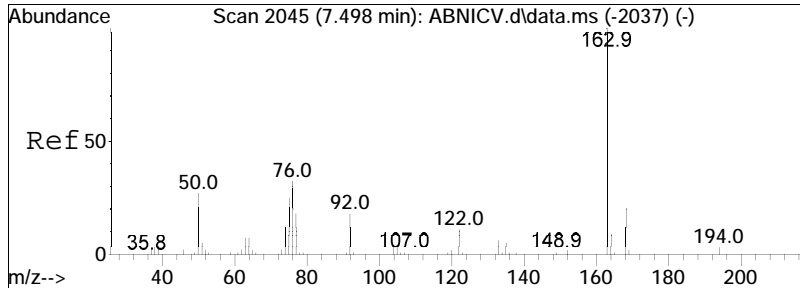




#49
 1,4-Dinitrobenzene
 Concen: 48.94 ug/ml
 RT: 6.527 min Scan# 1985
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

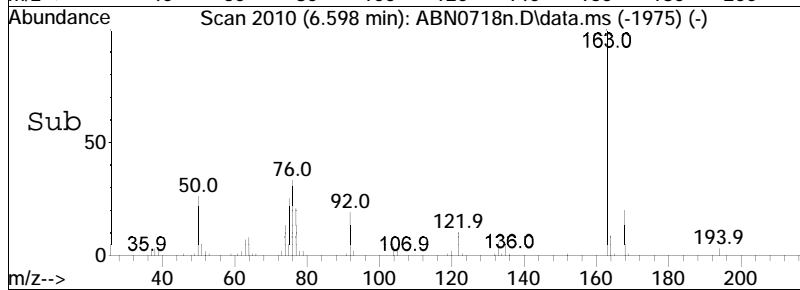
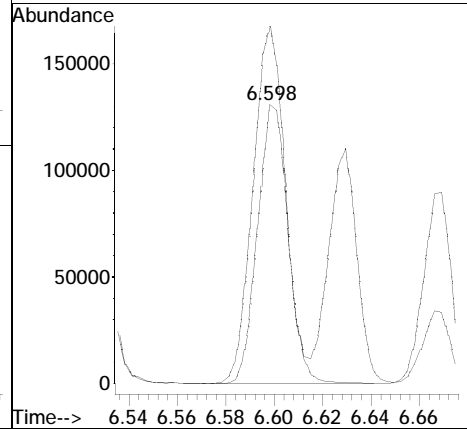
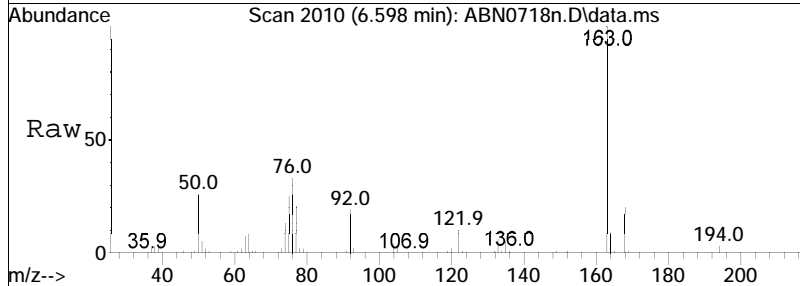
Tgt Ion	Resp	Lower	Upper
168	101712		
75	134.3	120.1	180.1

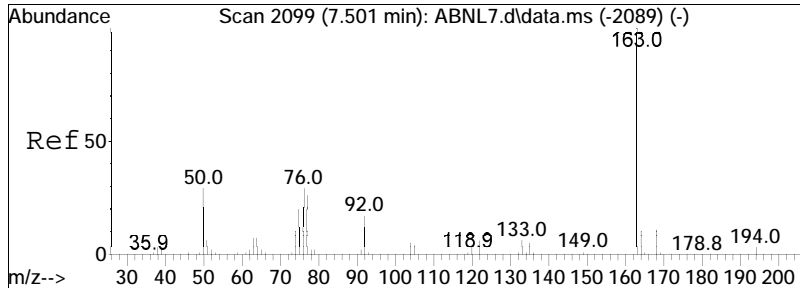




#50
 1,3-Dinitrobenzene
 Concen: 45.65 ug/ml
 RT: 6.598 min Scan# 2010
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

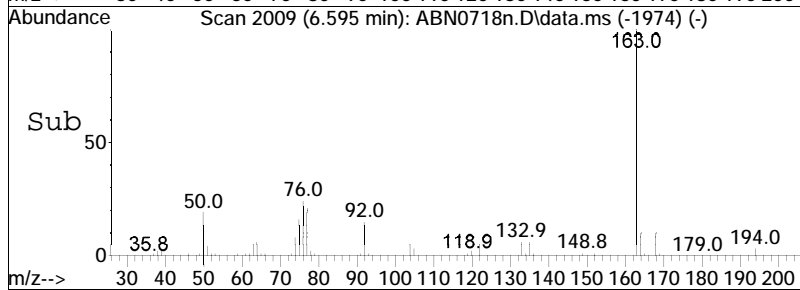
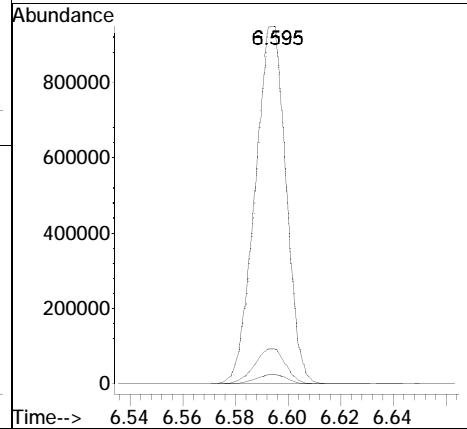
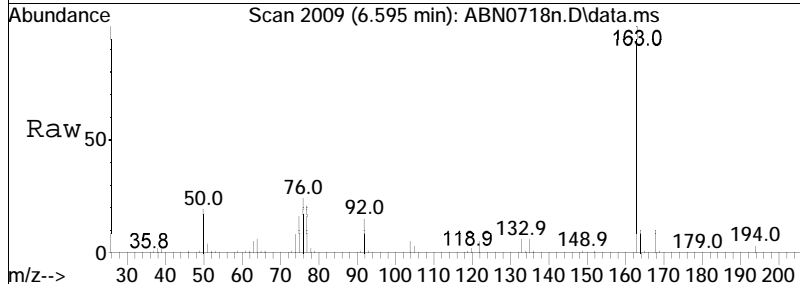
Tgt Ion: 168 Resp: 114834
 Ion Ratio Lower Upper
 168 100
 75 135.6 123.2 184.8

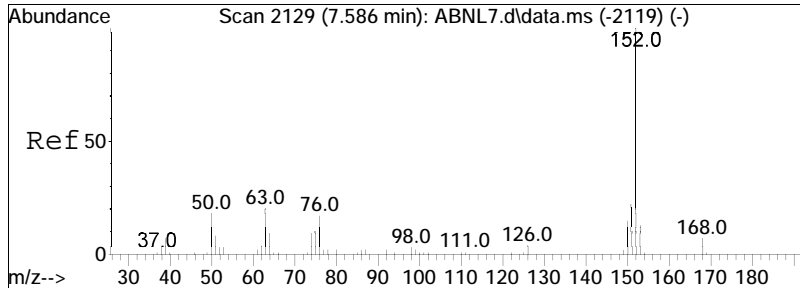




#51
 Dimethyl phthalate
 Concen: 47.40 ug/ml
 RT: 6.595 min Scan# 2009
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

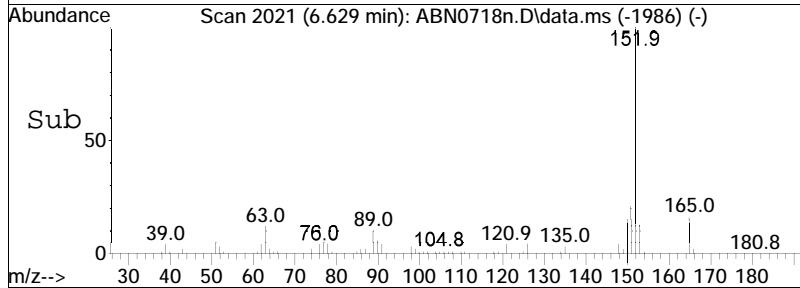
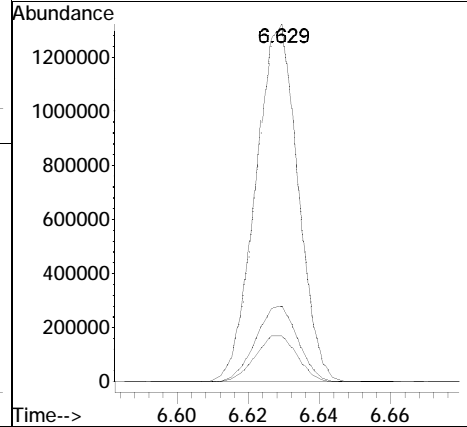
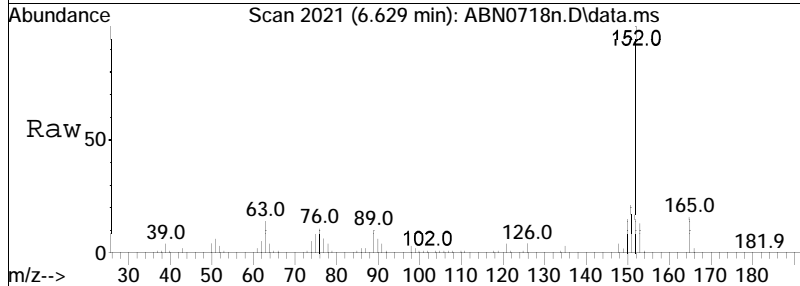
Tgt Ion	Ratio	Lower	Upper
163	100		
194	2.7	2.6	4.0
164	10.0	8.2	12.4

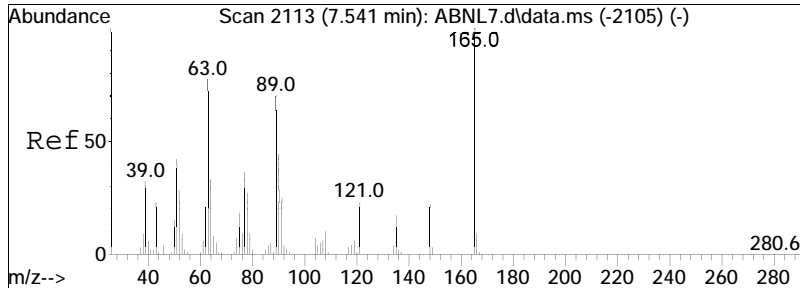




#52
 Acenaphthylene
 Concen: 50.24 ug/ml
 RT: 6.629 min Scan# 2021
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

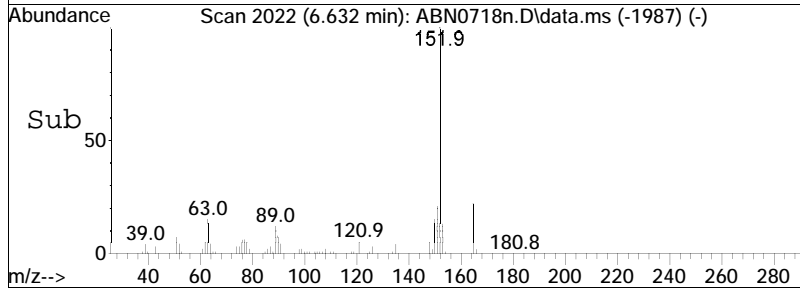
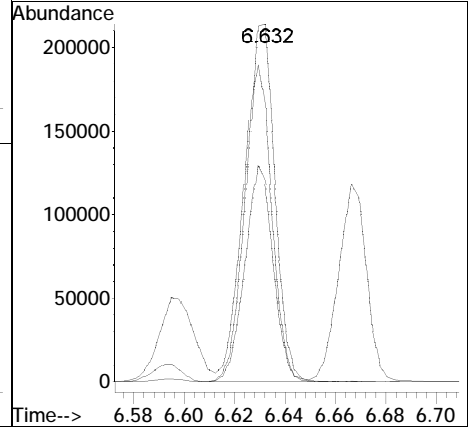
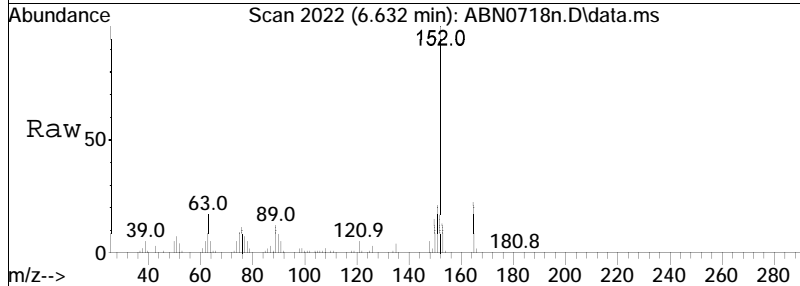
Tgt Ion	Resp	Lower	Upper
152	1083836		
151	21.4	16.4	24.6
153	13.1	11.0	16.6

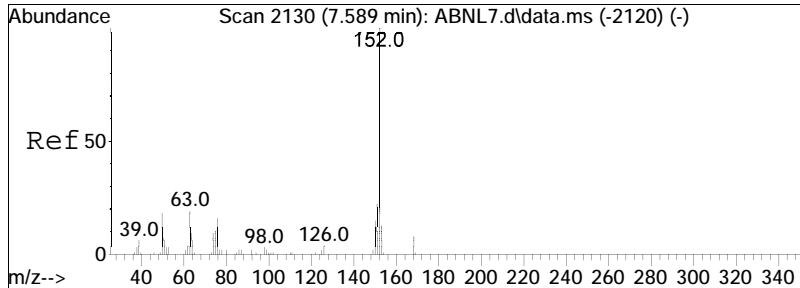




#53
 2,6-Dinitrotoluene
 Concen: 51.06 ug/ml
 RT: 6.632 min Scan# 2022
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

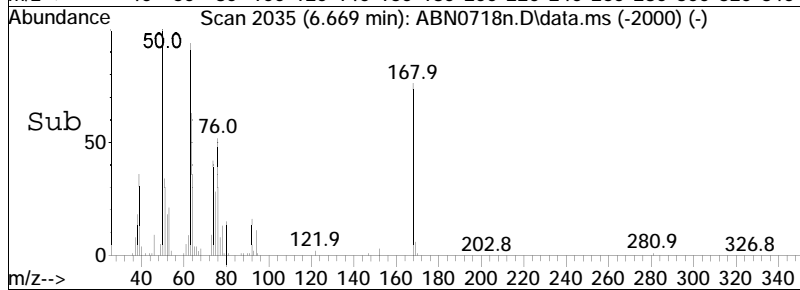
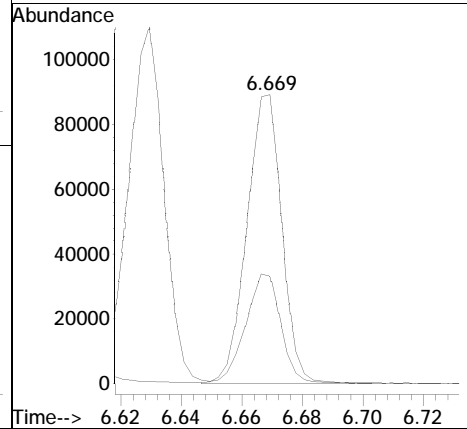
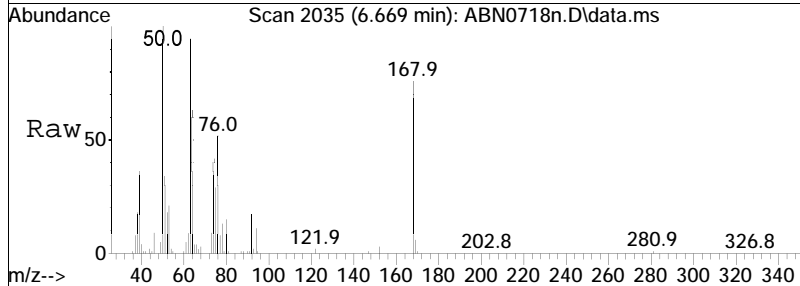
Tgt Ion	Ratio	Lower	Upper
165	100		
89	59.3	50.4	75.6
63	89.8	56.9	85.3#

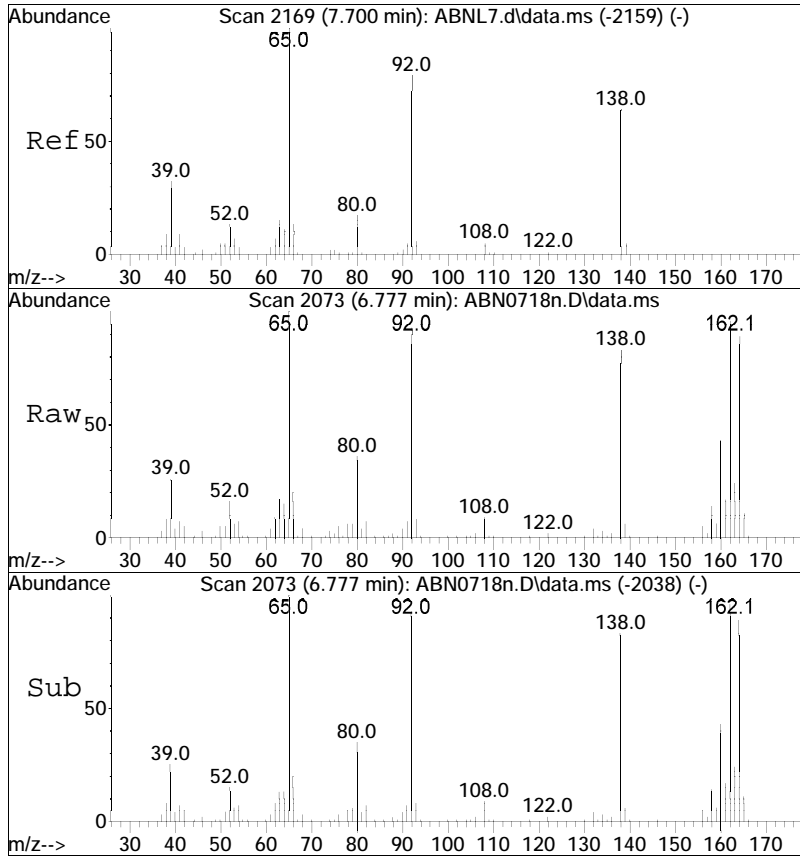




#54
 1,2-Dinitrobenzene
 Concen: 49.02 ug/ml
 RT: 6.669 min Scan# 2035
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

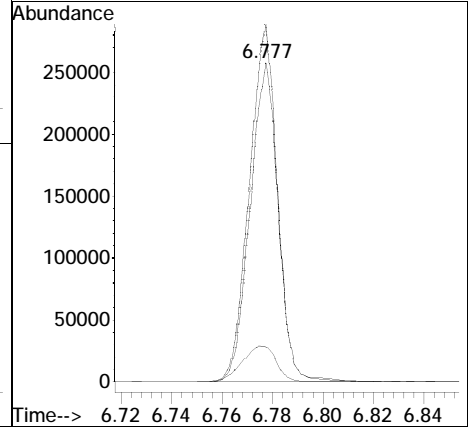
Tgt Ion: 168 Resp: 71668
 Ion Ratio Lower Upper
 168 100
 75 37.1 105.0 157.6#

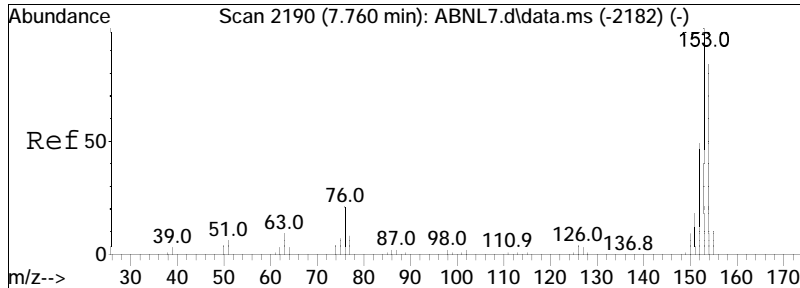




#64
 3-Nitroaniline
 Concen: 47.89 ug/ml
 RT: 6.777 min Scan# 2073
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

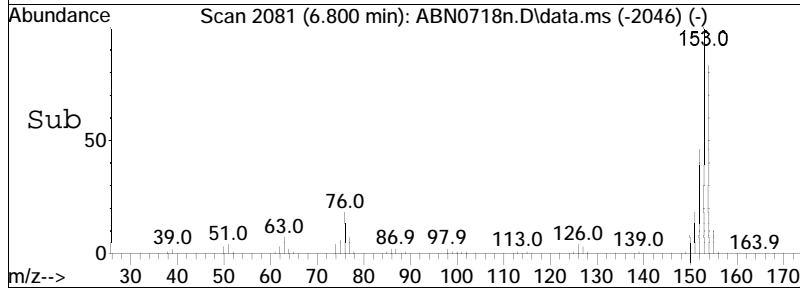
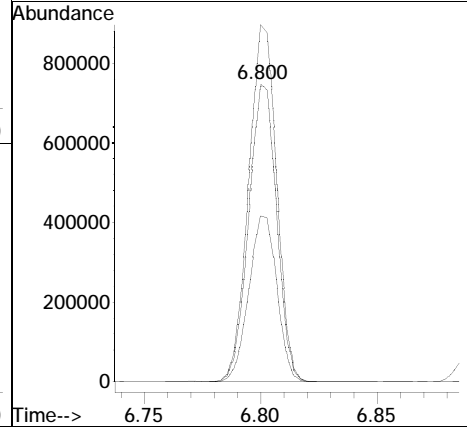
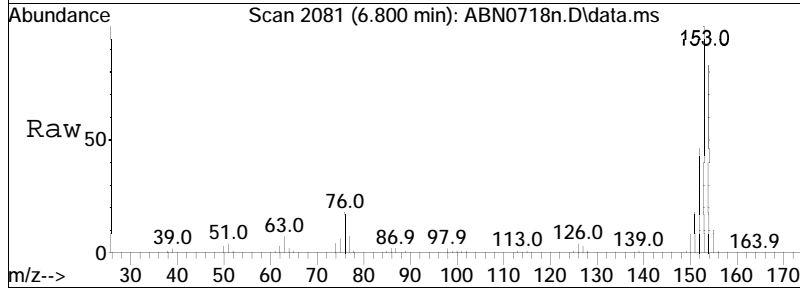
Tgt Ion	Resp	Lower	Upper
138	197367		
138	100		
92	111.9	95.4	143.2
108	14.0	8.6	12.8#

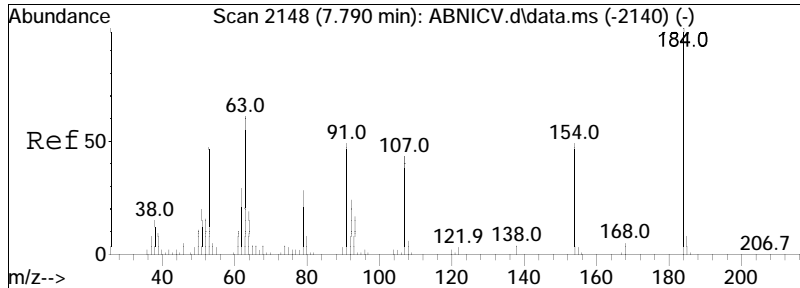




#65
 Acenaphthene
 Concen: 45.84 ug/ml
 RT: 6.800 min Scan# 2081
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

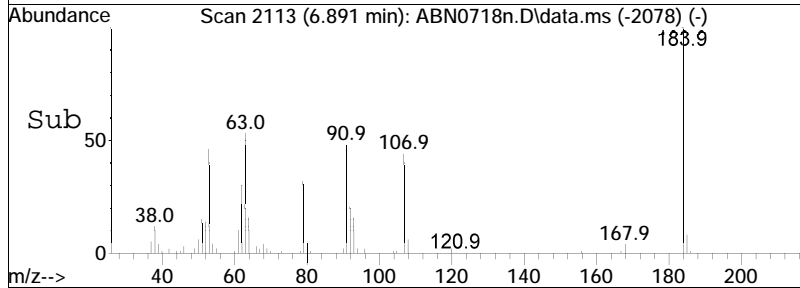
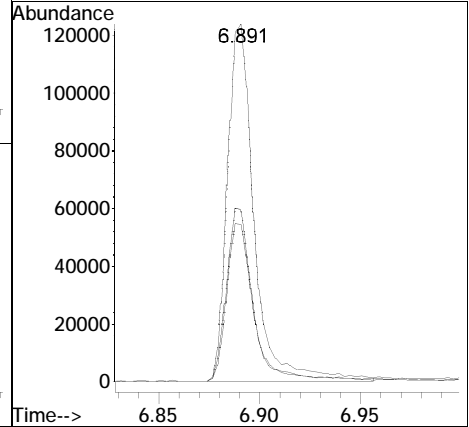
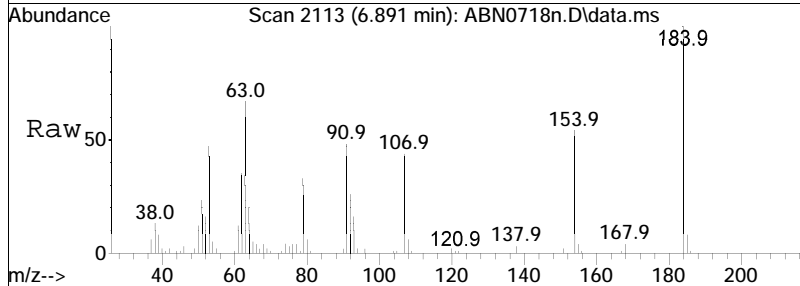
Tgt Ion	Resp	Lower	Upper
154	622624		
153	120.6	91.3	136.9
152	56.3	41.0	61.4

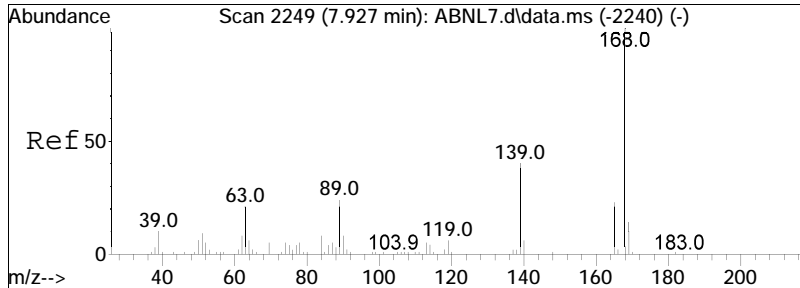




#66
 2,4-Dinitrophenol
 Concen: 62.14 ug/ml
 RT: 6.891 min Scan# 2113
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

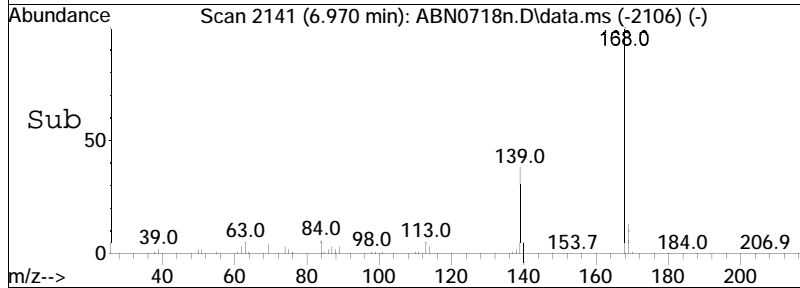
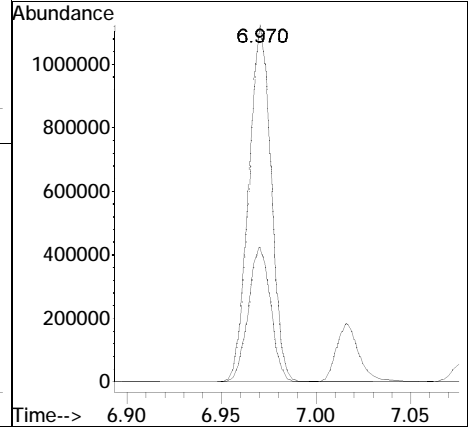
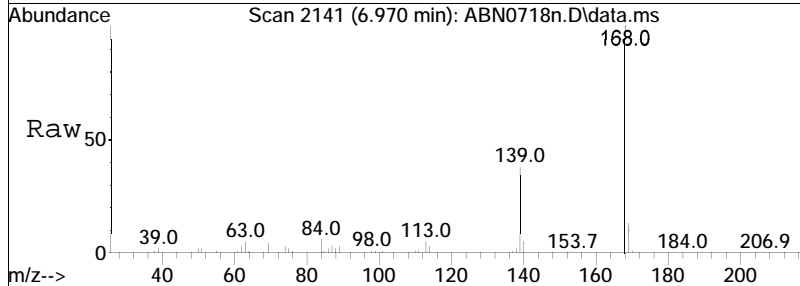
Tgt Ion	Ratio	Lower	Upper
184	100		
107	44.1	41.8	62.6
91	47.6	46.1	69.1

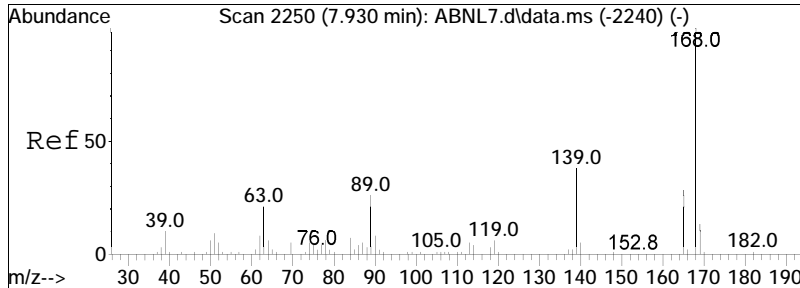




#67
 Dibenzofuran
 Concen: 43.64 ug/ml
 RT: 6.970 min Scan# 2141
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

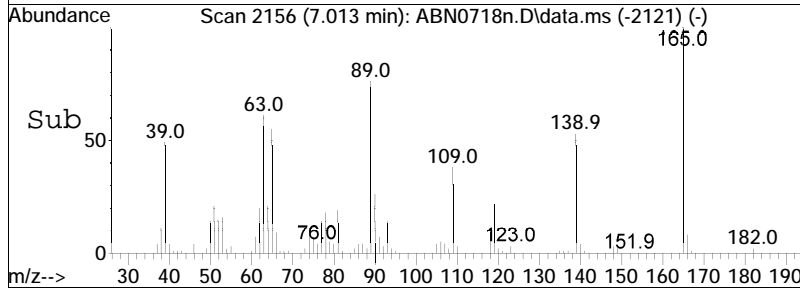
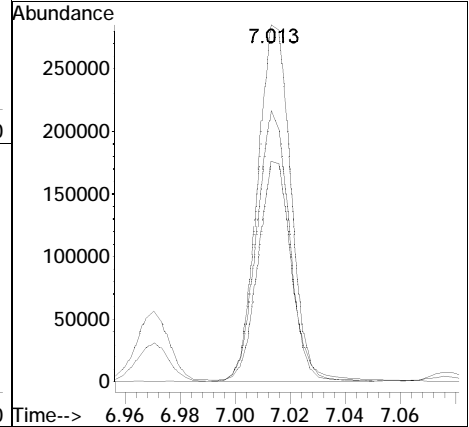
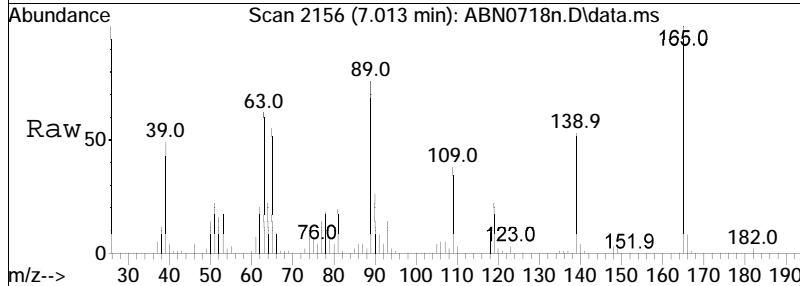
Tgt Ion	Resp	Lower	Upper
168	100		
139	37.9	33.2	49.8

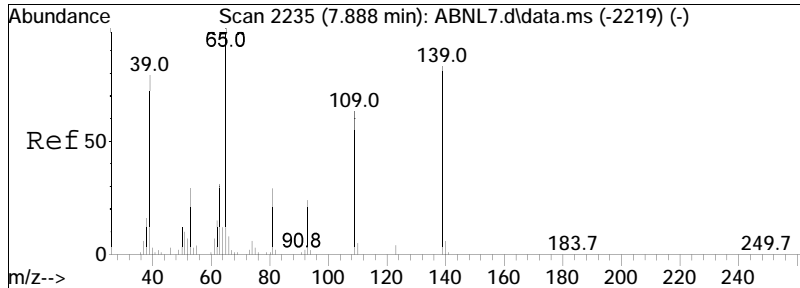




#68
 2,4-Dinitrotoluene
 Concen: 52.77 ug/ml
 RT: 7.013 min Scan# 2156
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

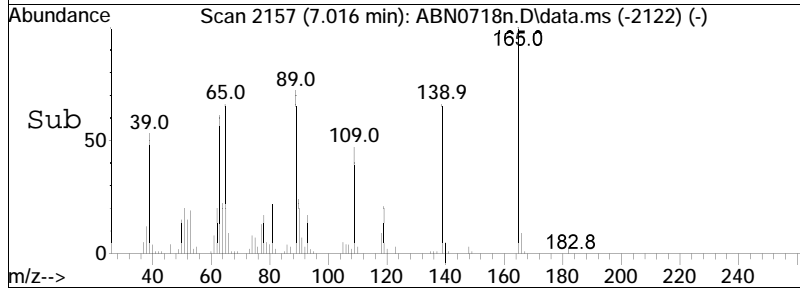
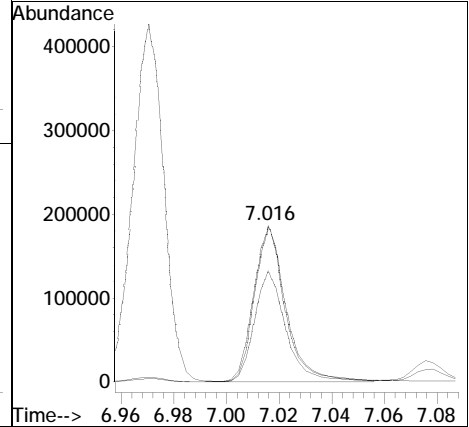
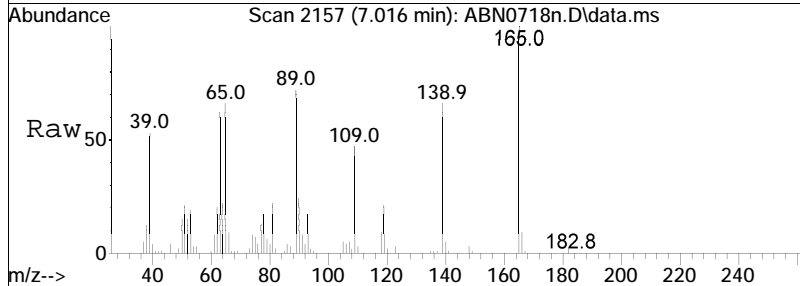
Tgt Ion	Ratio	Lower	Upper
165	100		
89	74.2	75.7	113.5#
63	62.5	62.6	94.0#

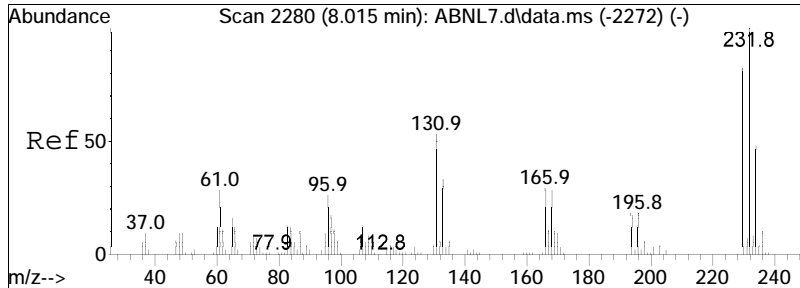




#69
 4-Nitrophenol
 Concen: 57.83 ug/ml
 RT: 7.016 min Scan# 2157
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

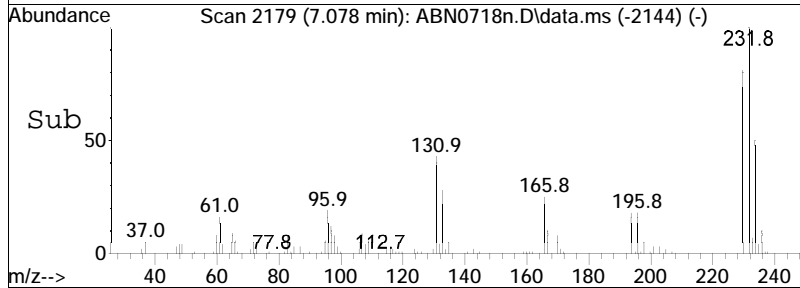
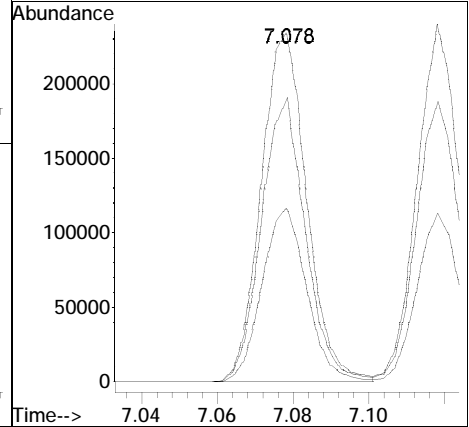
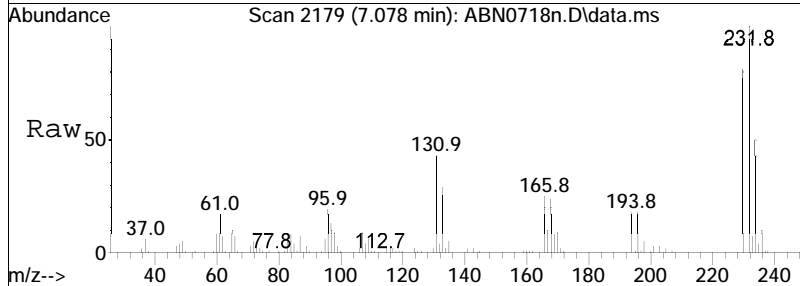
Tgt Ion:	65	Resp:	154975
Ion Ratio	Lower	Upper	
65	100		
109	70.8	55.4	83.2
139	100.2	72.9	109.3

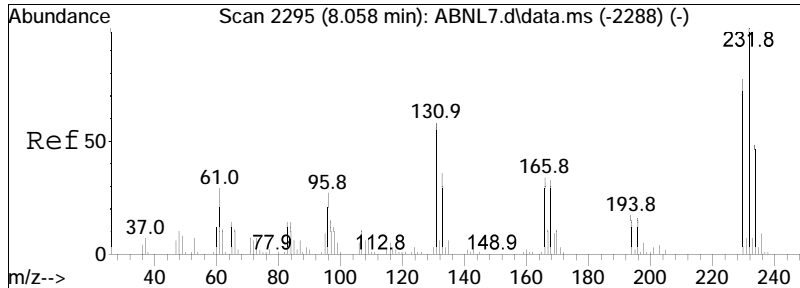




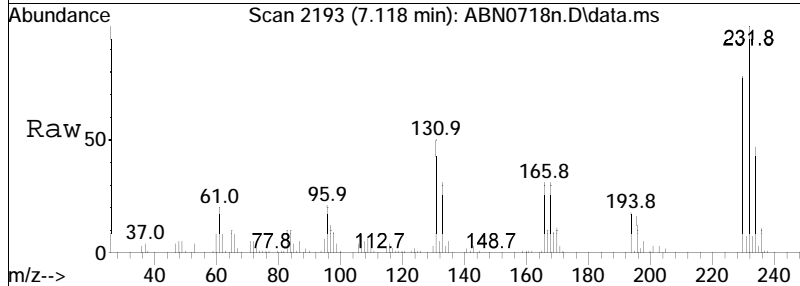
#70
 2,3,5,6-Tetrachlorophenol
 Concen: 53.41 ug/ml
 RT: 7.078 min Scan# 2179
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

Tgt Ion	Ratio	Lower	Upper
232	100		
230	78.8	65.0	97.6
234	48.9	37.8	56.8

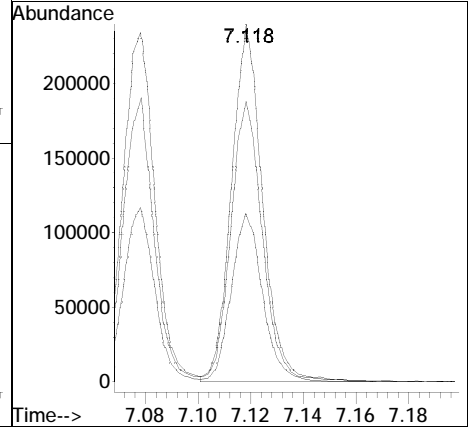
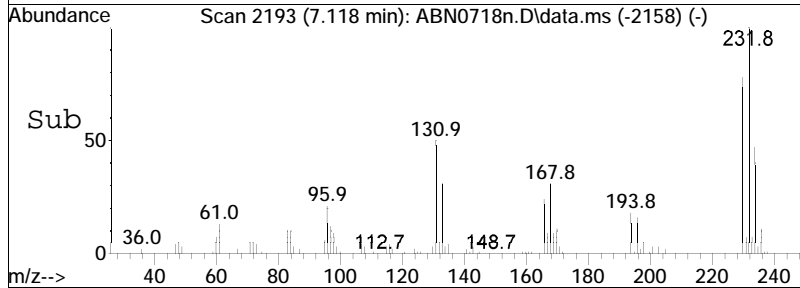


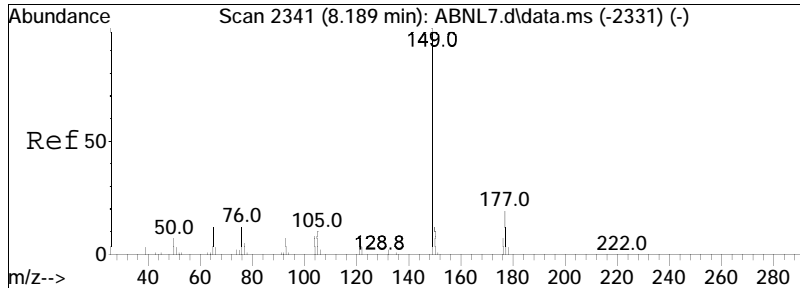


#71
 2,3,4,6-Tetrachlorophenol
 Concen: 51.88 ug/ml
 RT: 7.118 min Scan# 2193
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm



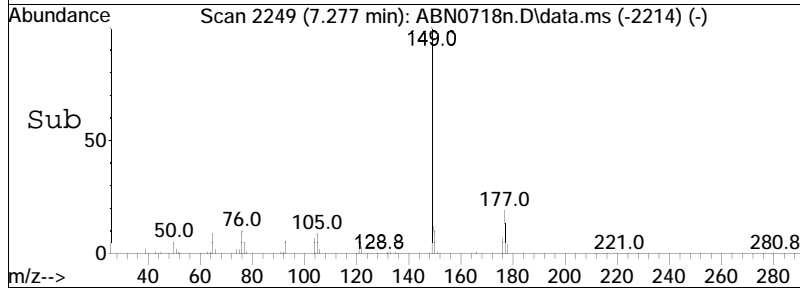
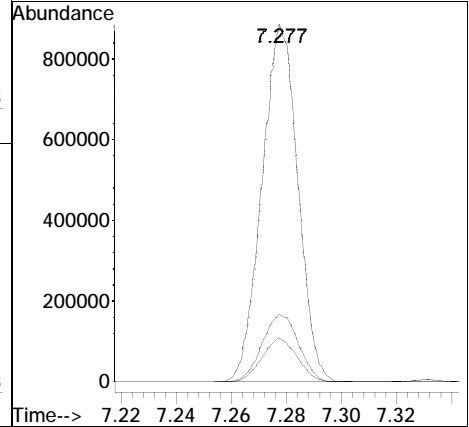
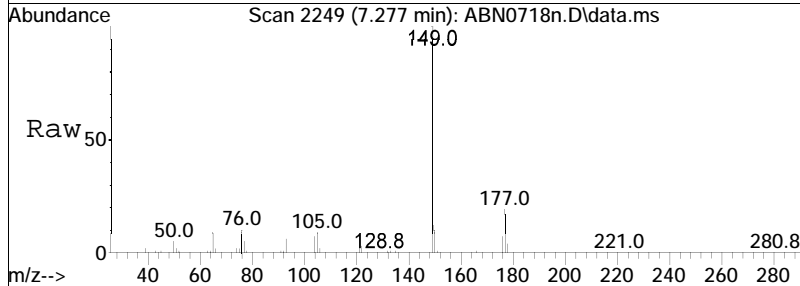
Tgt Ion	Resp	Lower	Upper
232	100		
230	78.5	63.7	95.5
234	48.1	38.4	57.6

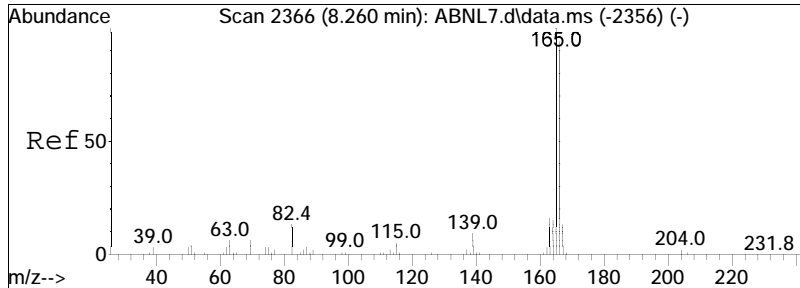




#72
 Diethyl phthalate
 Concen: 48.39 ug/ml
 RT: 7.277 min Scan# 2249
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

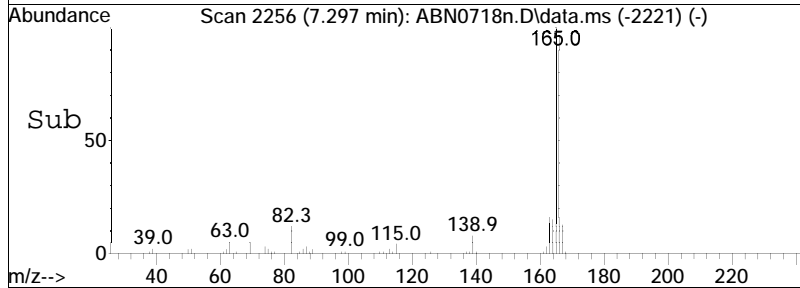
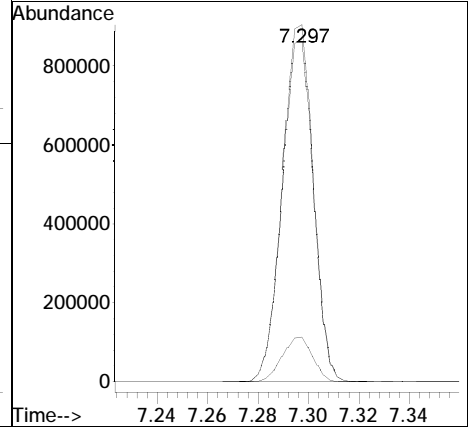
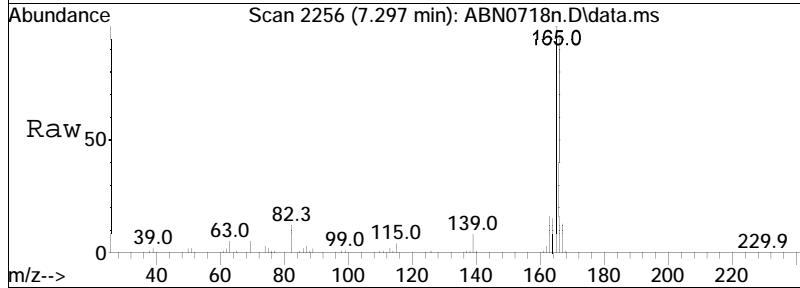
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.4	15.5	23.3
150	12.4	9.5	14.3

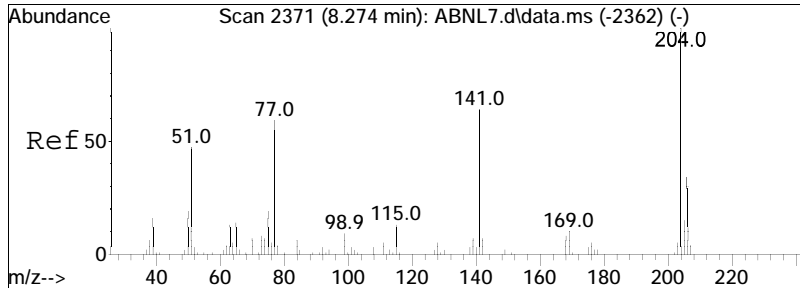




#73
 Fluorene
 Concen: 45.54 ug/ml
 RT: 7.297 min Scan# 2256
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

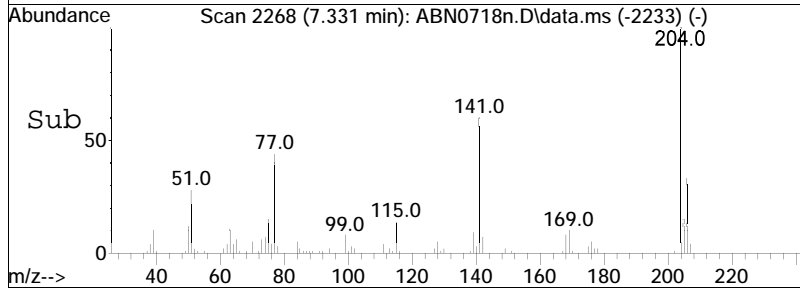
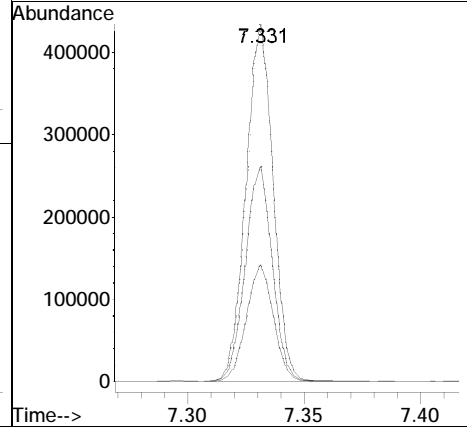
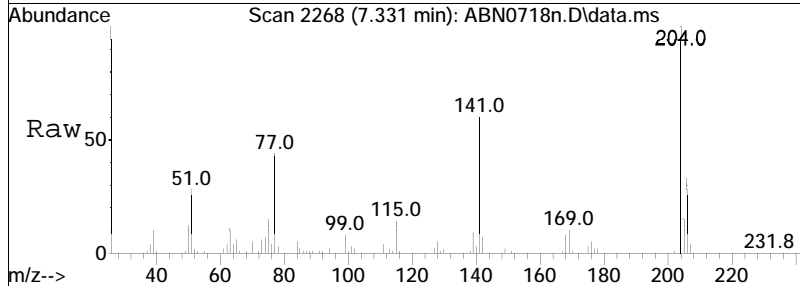
Tgt Ion	Ratio	Lower	Upper
166	100		
165	104.5	79.3	118.9
167	13.1	10.6	16.0

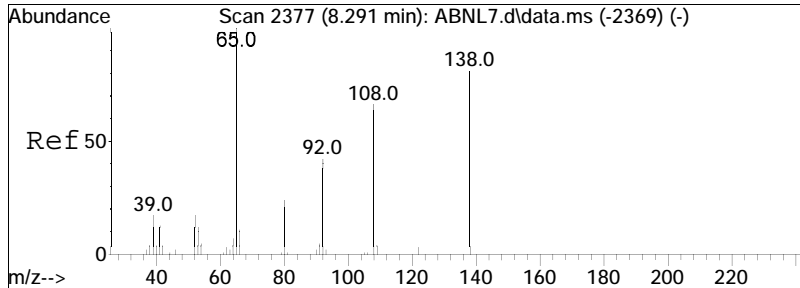




#74
 4-Chlorophenyl phenyl ether
 Concen: 45.10 ug/ml
 RT: 7.331 min Scan# 2268
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

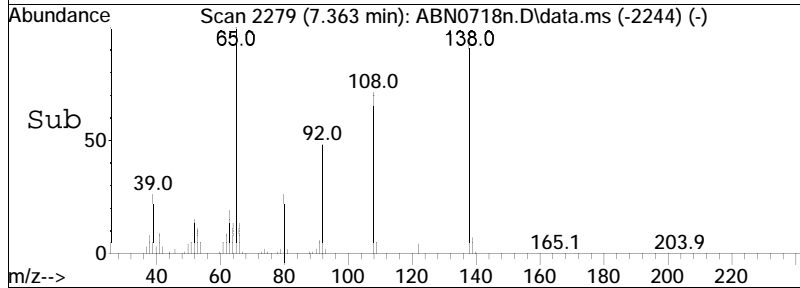
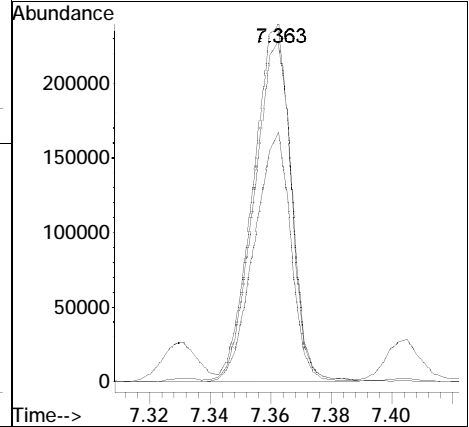
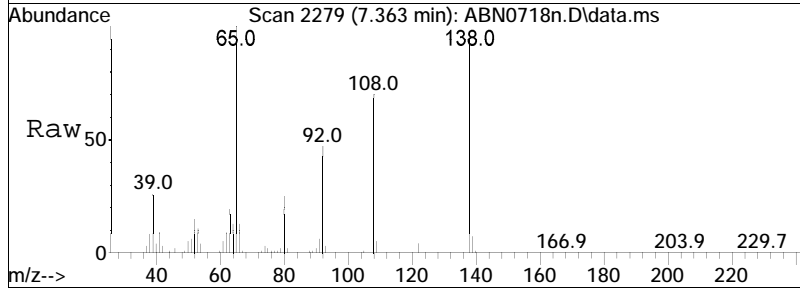
Tgt Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.2	39.4
141	60.1	57.2	85.8

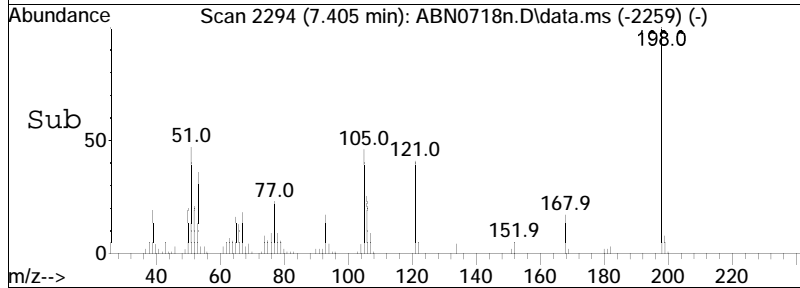
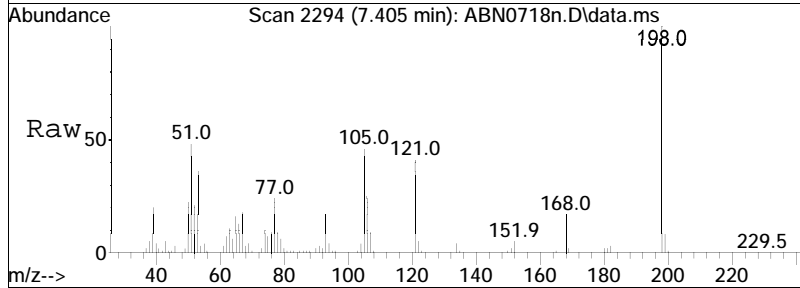
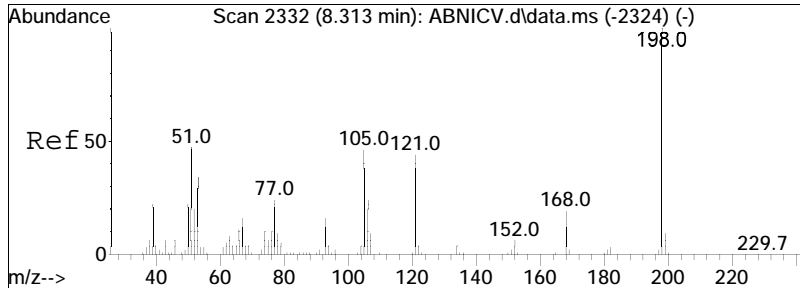




#75
 4-Nitroaniline
 Concen: 46.63 ug/ml
 RT: 7.363 min Scan# 2279
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

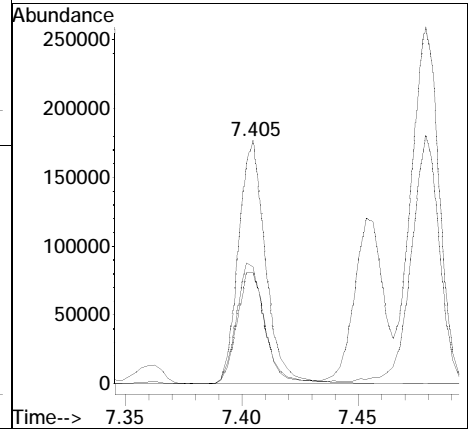
Tgt Ion	Resp	Lower	Upper
138	194874		
138	100		
108	72.1	62.7	94.1
65	104.8	107.8	161.6#

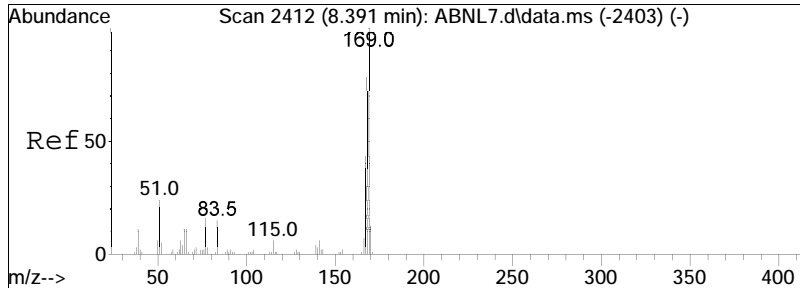




#76
 4,6-Dinitro-o-cresol
 Concen: 61.65 ug/ml
 RT: 7.405 min Scan# 2294
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

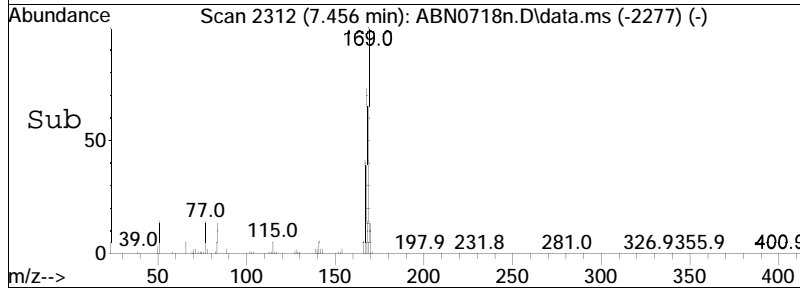
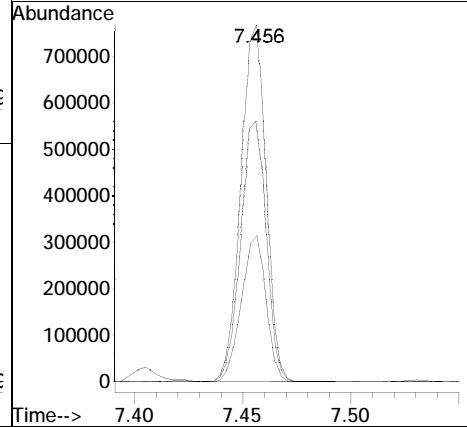
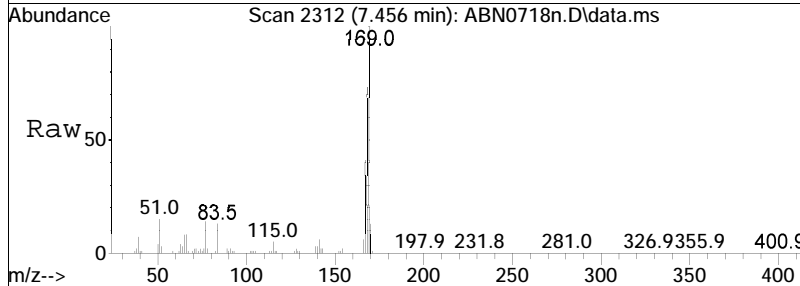
Tgt Ion	Ratio	Lower	Upper
198	100		
51	50.5	59.0	88.4#
105	48.4	45.0	67.6

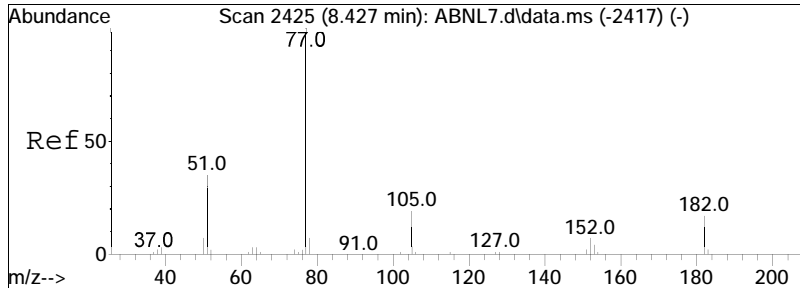




#77
 NDPA/DPA
 Concen: 44.66 ug/ml
 RT: 7.456 min Scan# 2312
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

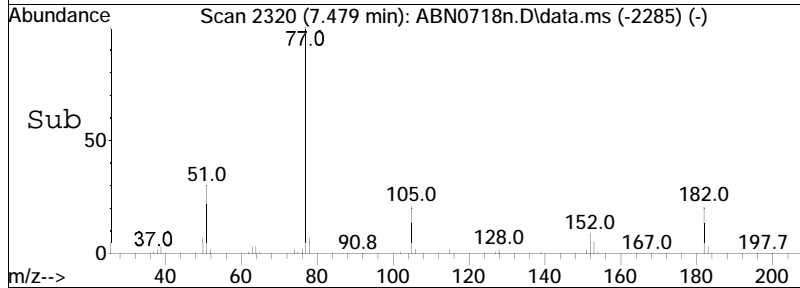
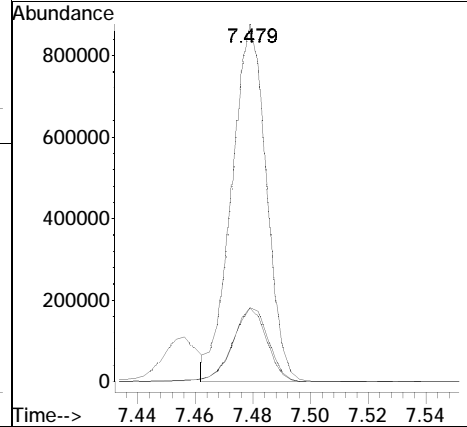
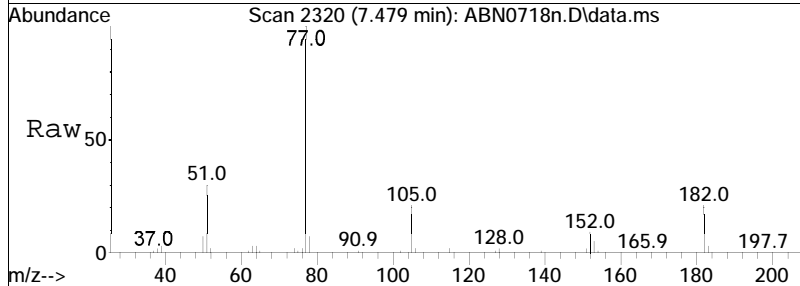
Tgt Ion	Ratio	Lower	Upper
169	100		
168	73.9	55.4	83.0
167	40.1	30.3	45.5

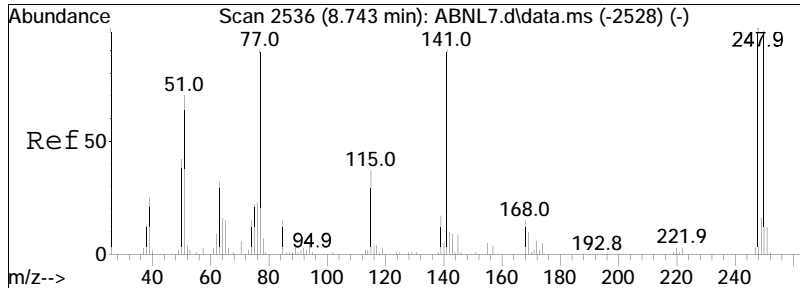




#78
 Azobenzene
 Concen: 51.92 ug/ml
 RT: 7.479 min Scan# 2320
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

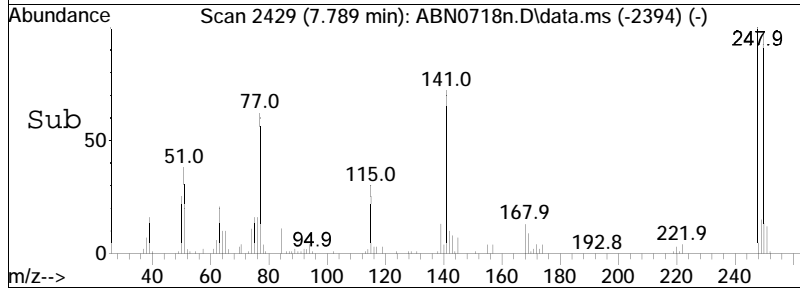
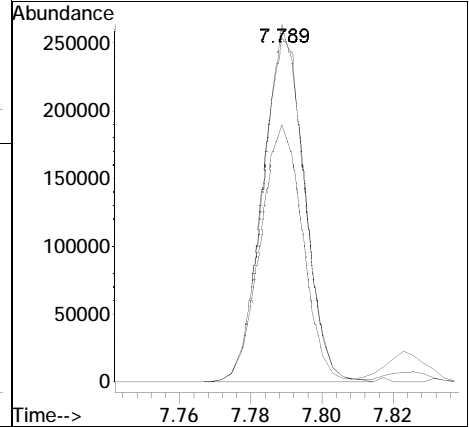
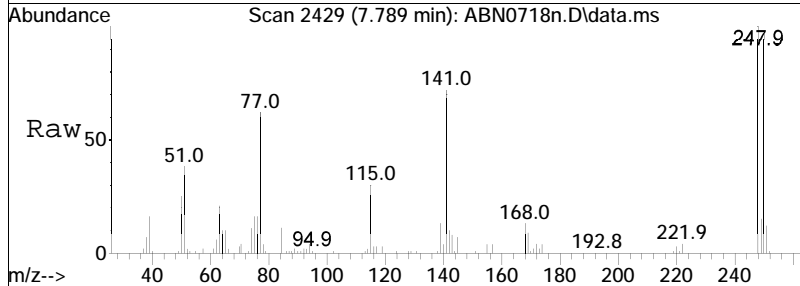
Tgt Ion	Resp	Lower	Upper
77	100		
182	22.0	16.0	24.0
105	21.1	15.6	23.4

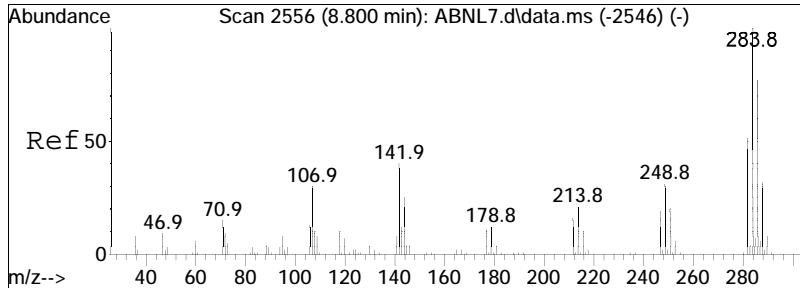




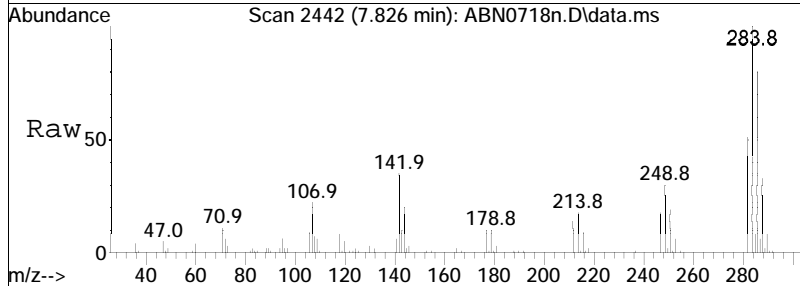
#80
 4-Bromophenyl phenyl ether
 Concen: 46.03 ug/ml
 RT: 7.789 min Scan# 2429
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

Tgt Ion	Ratio	Lower	Upper
248	100		
141	73.7	76.8	115.2#
250	98.5	79.7	119.5

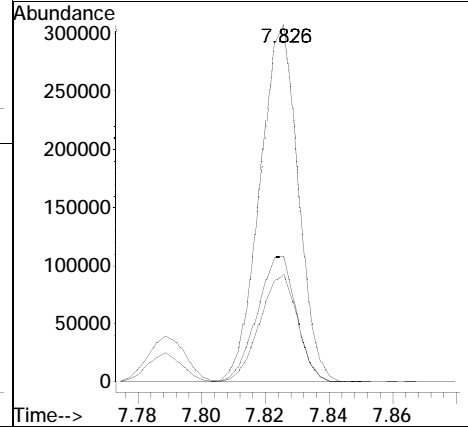
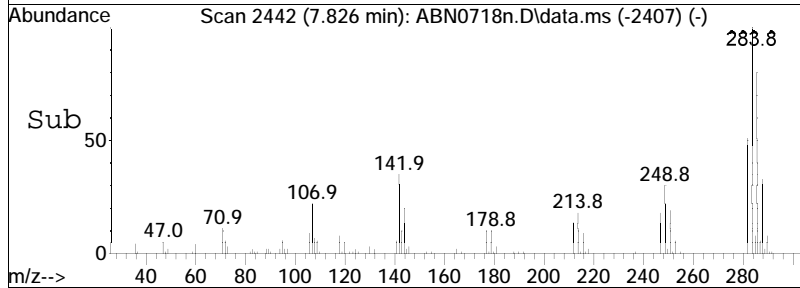


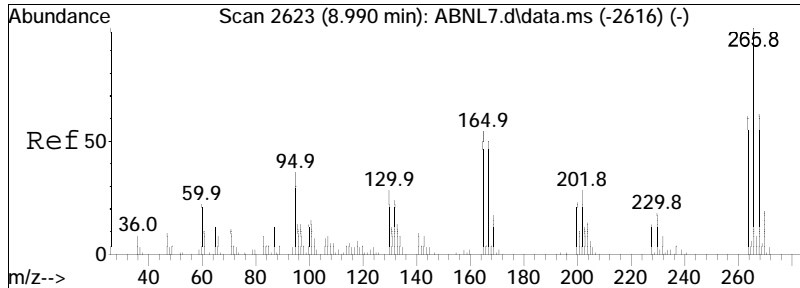


#81
 Hexachlorobenzene
 Concen: 45.80 ug/ml
 RT: 7.826 min Scan# 2442
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm



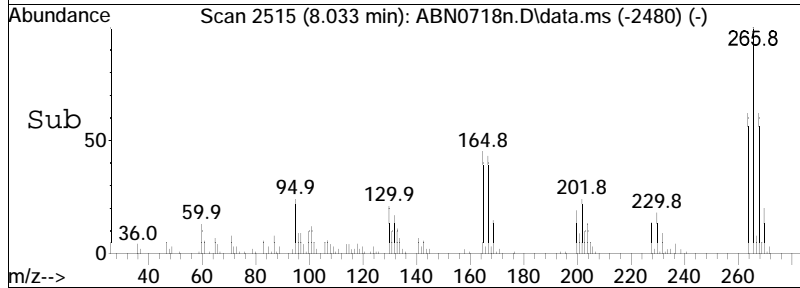
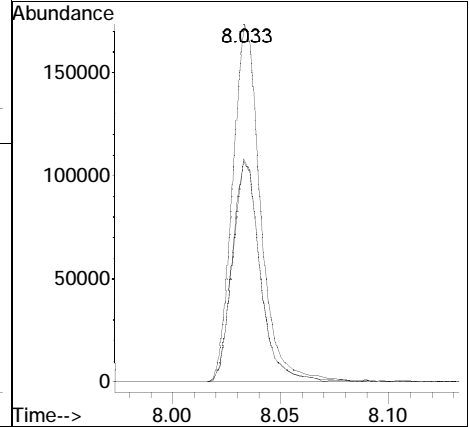
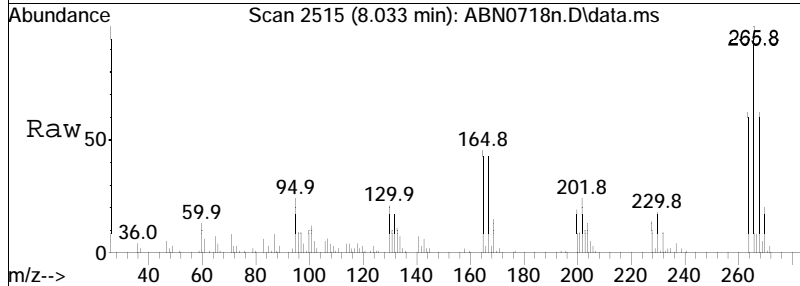
Tgt Ion	Resp	Lower	Upper
284	100		
142	36.1	35.8	53.6
249	30.2	24.7	37.1

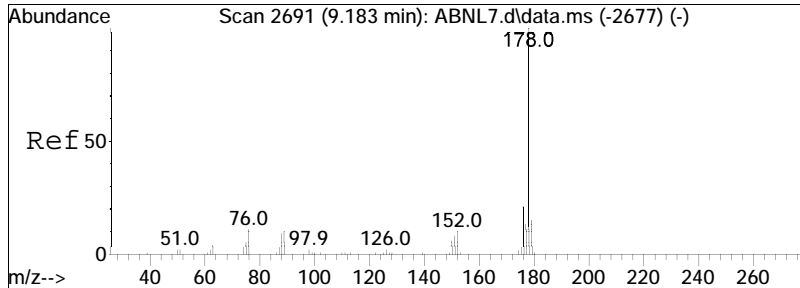




#82
 Pentachlorophenol
 Concen: 44.94 ug/ml
 RT: 8.033 min Scan# 2515
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

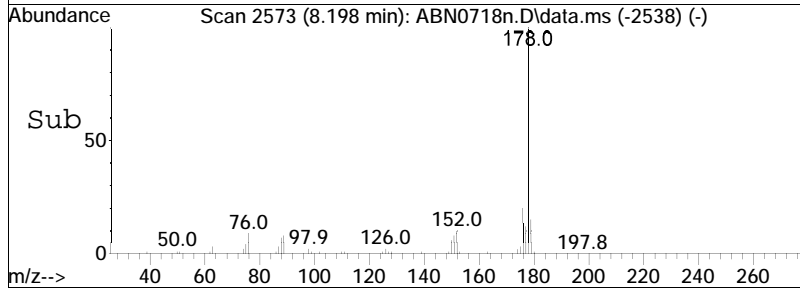
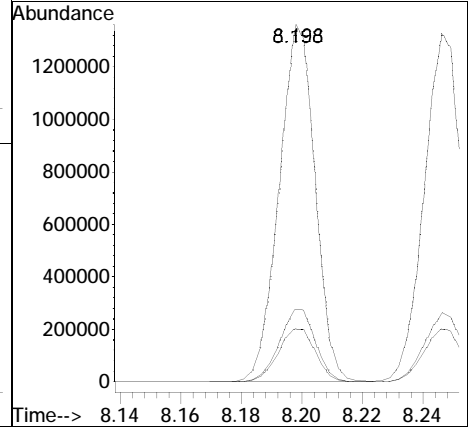
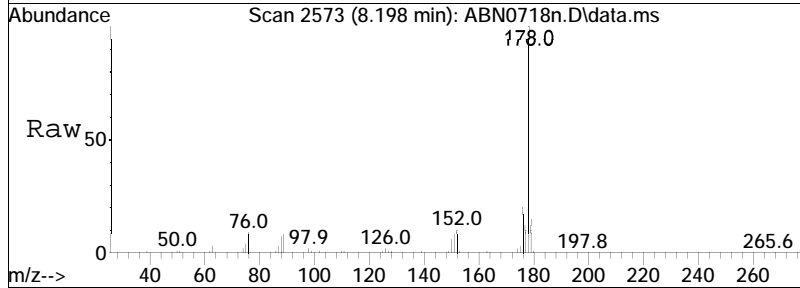
Tgt Ion	Resp	Lower	Upper
266	100		
264	62.1	51.8	77.6
268	61.0	49.8	74.8

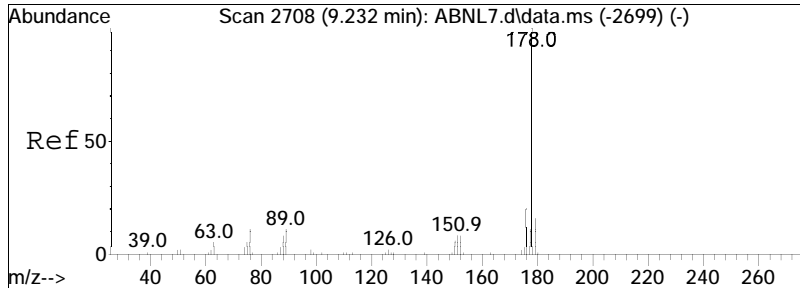




#89
 Phenanthrene
 Concen: 42.92 ug/ml
 RT: 8.198 min Scan# 2573
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

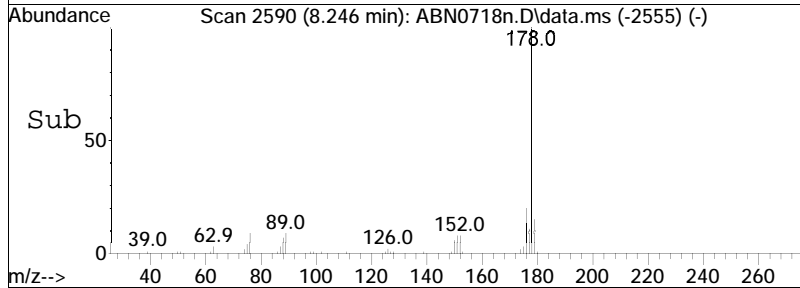
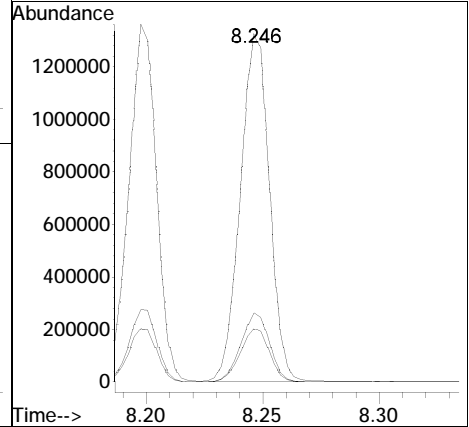
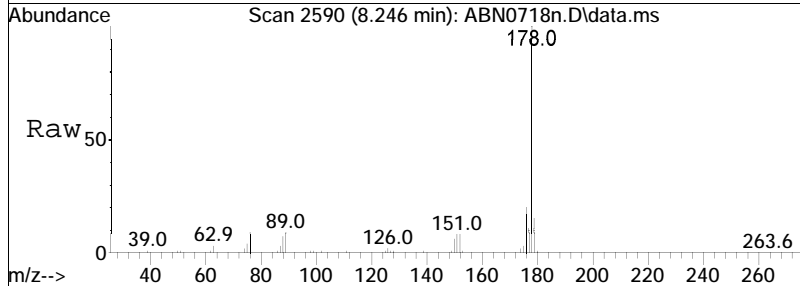
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.4	12.2	18.2
176	20.3	15.4	23.2

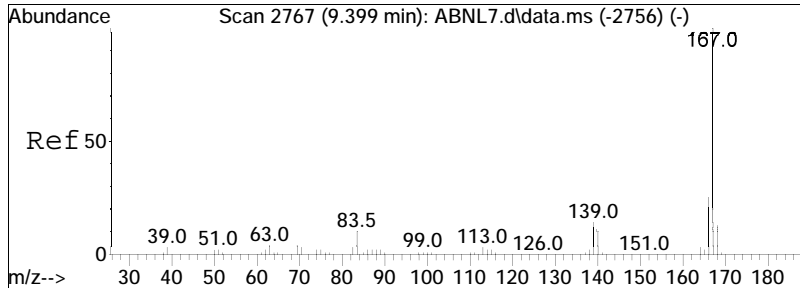




#90
 Anthracene
 Concen: 44.52 ug/ml
 RT: 8.246 min Scan# 2590
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

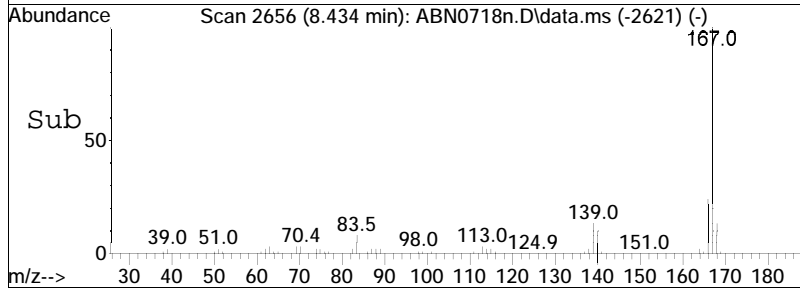
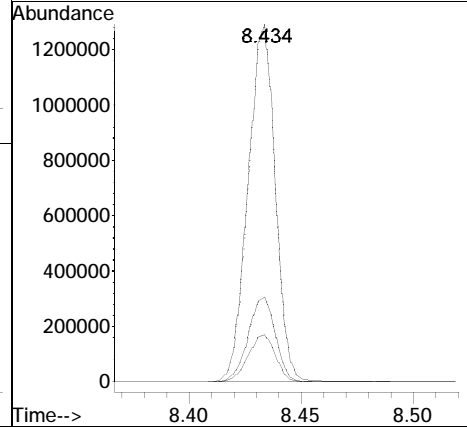
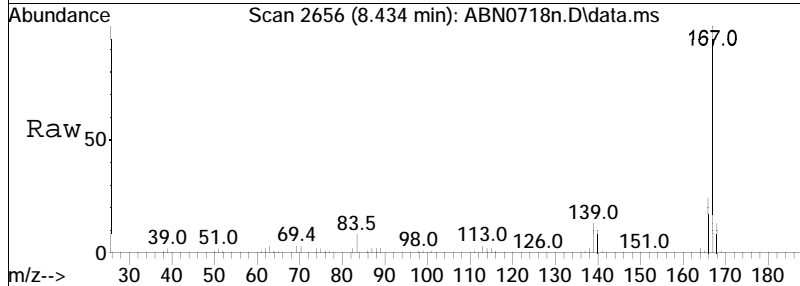
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.2	12.1	18.1
176	19.5	14.8	22.2

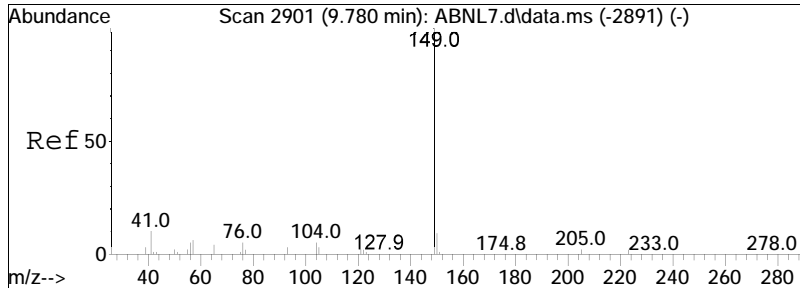




#91
 Carbazole
 Concen: 44.64 ug/ml
 RT: 8.434 min Scan# 2656
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

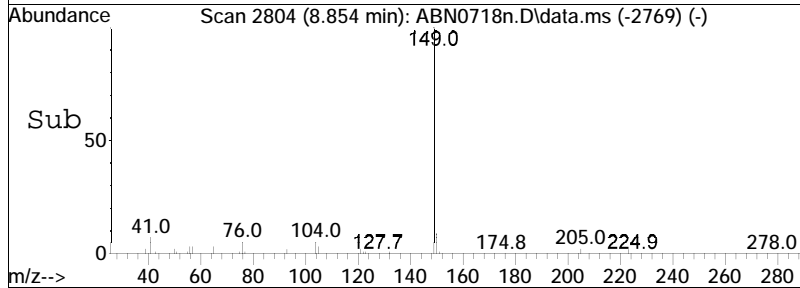
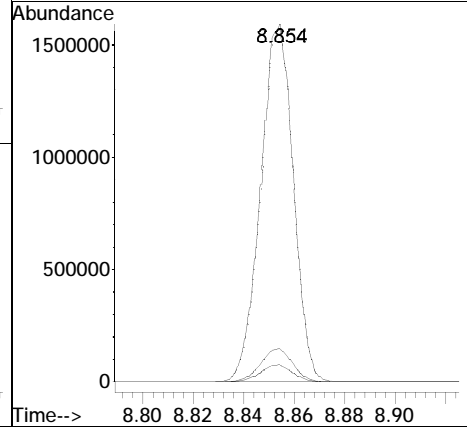
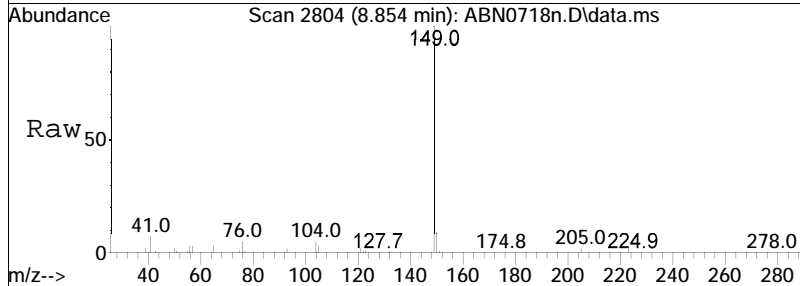
Tgt Ion	Resp	Lower	Upper
167	1080698		
167	100		
168	13.4	10.6	15.8
166	23.8	17.7	26.5

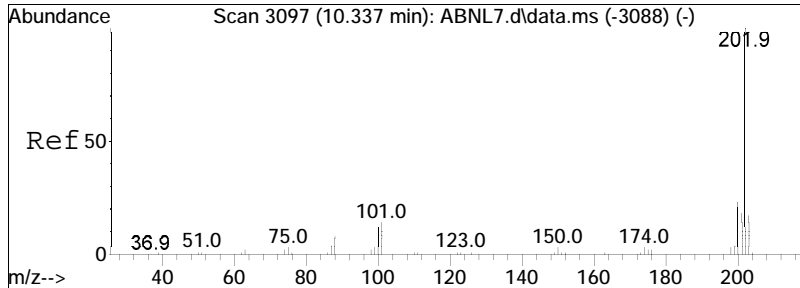




#92
 Di-n-butylphthalate
 Concen: 54.34 ug/ml
 RT: 8.854 min Scan# 2804
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

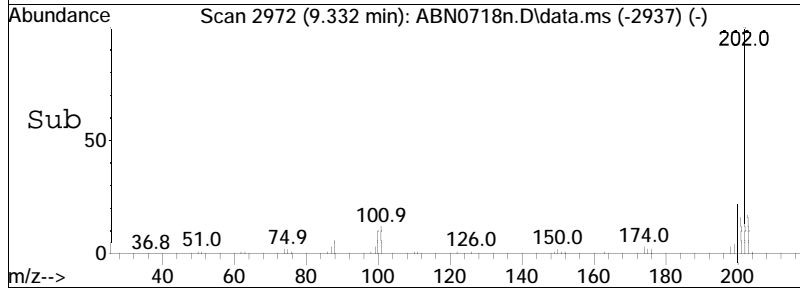
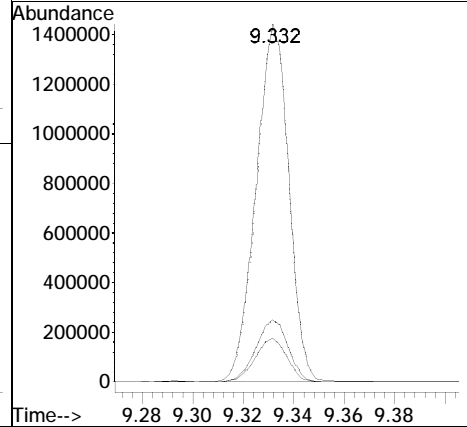
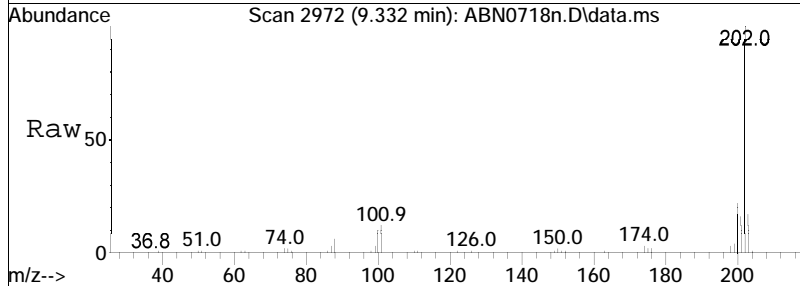
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	4.8	4.2	6.2

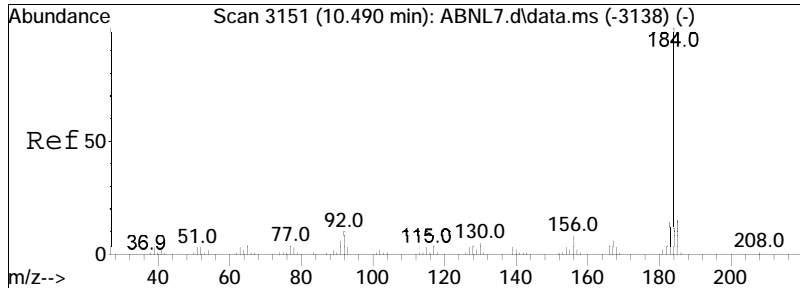




#93
 Fluoranthene
 Concen: 46.62 ug/ml
 RT: 9.332 min Scan# 2972
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

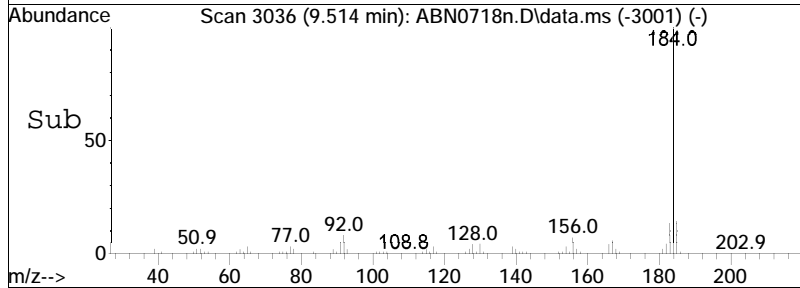
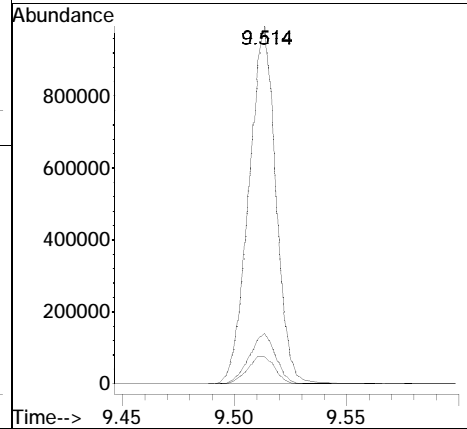
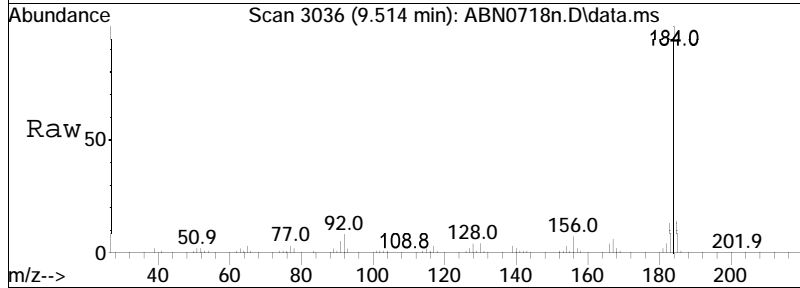
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	11.4	17.0
203	17.4	13.9	20.9

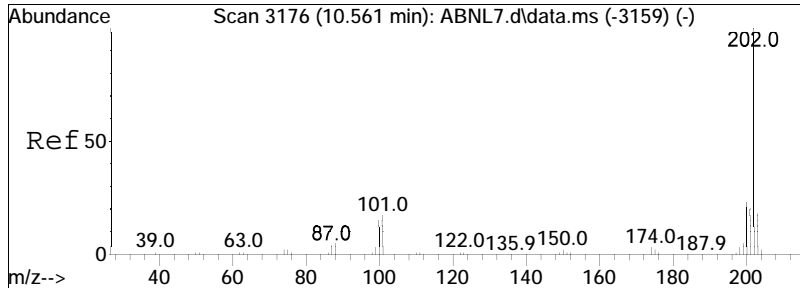




#94
 Benzidine
 Concen: 47.51 ug/ml
 RT: 9.514 min Scan# 3036
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

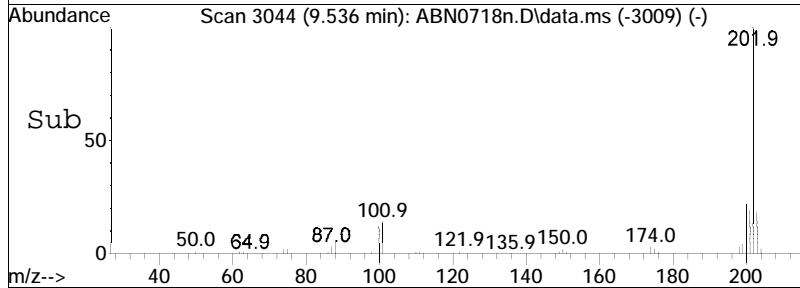
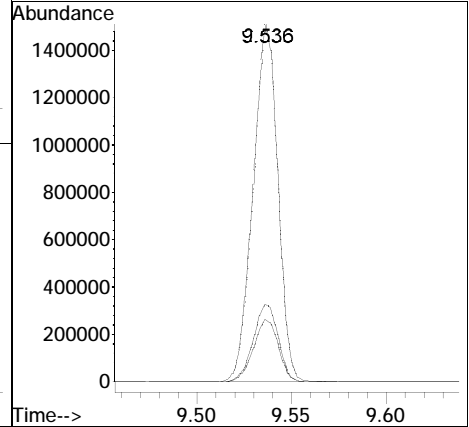
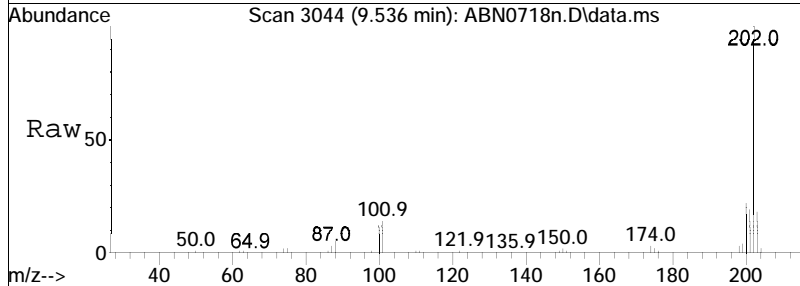
Tgt Ion	Ratio	Lower	Upper
184	100		
92	7.9	7.6	11.4
185	14.1	11.5	17.3

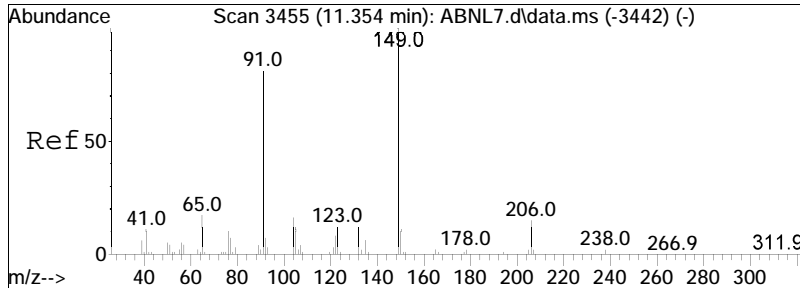




#95
 Pyrene
 Concen: 45.87 ug/ml
 RT: 9.536 min Scan# 3044
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

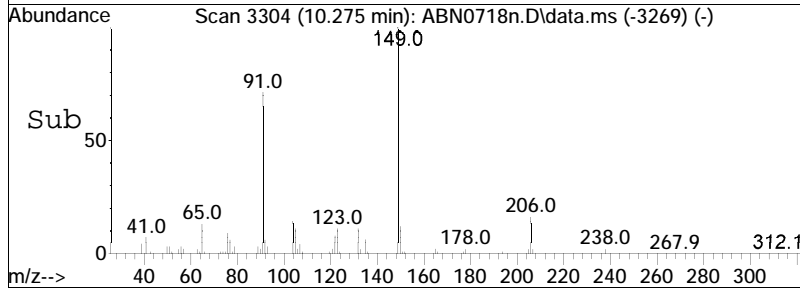
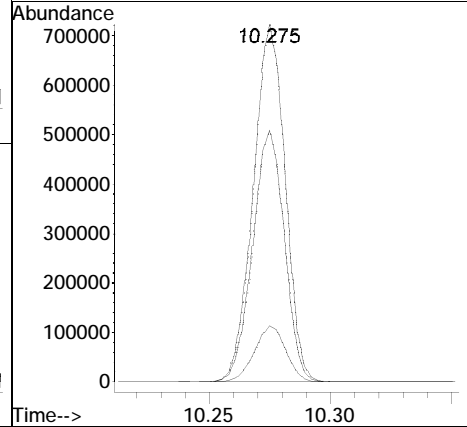
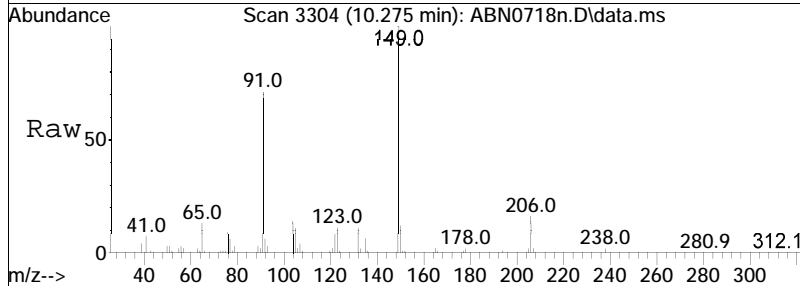
Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.0	17.0	25.4
203	17.7	14.2	21.2

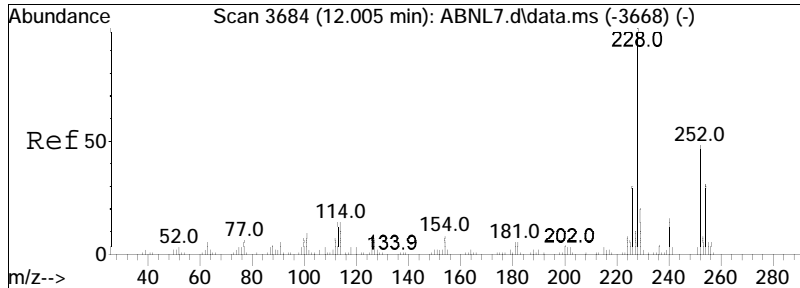




#97
 Butyl benzyl phthalate
 Concen: 50.51 ug/ml
 RT: 10.275 min Scan# 3304
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

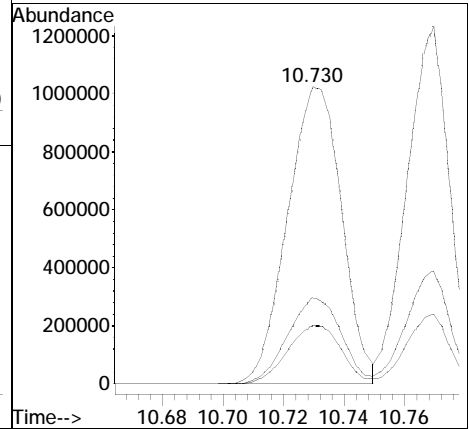
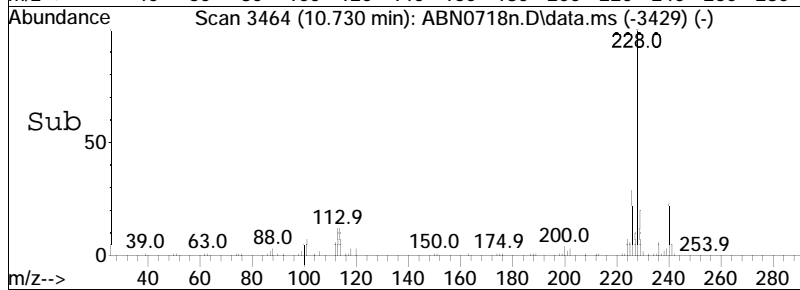
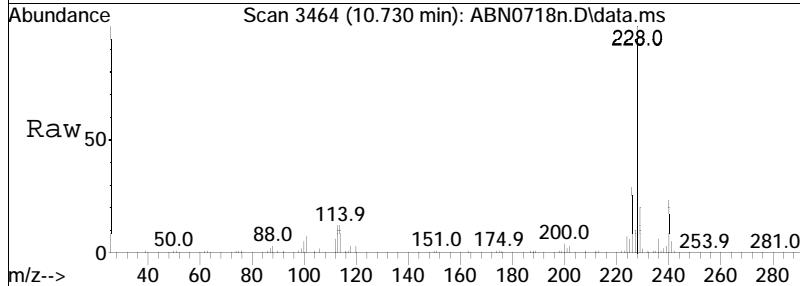
Tgt Ion	Ratio	Lower	Upper
149	100		
91	70.1	61.2	91.8
206	15.5	12.5	18.7

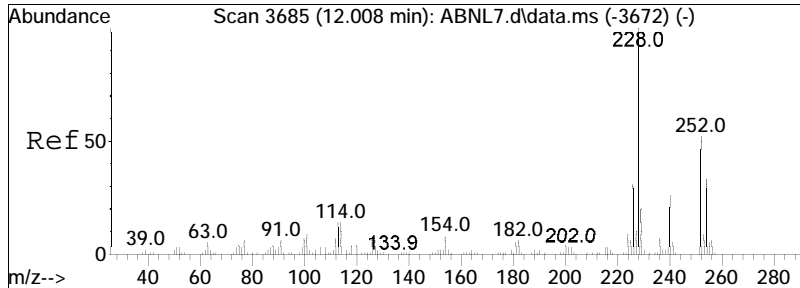




#105
 Benzo(a)anthracene
 Concen: 43.43 ug/ml
 RT: 10.730 min Scan# 3464
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

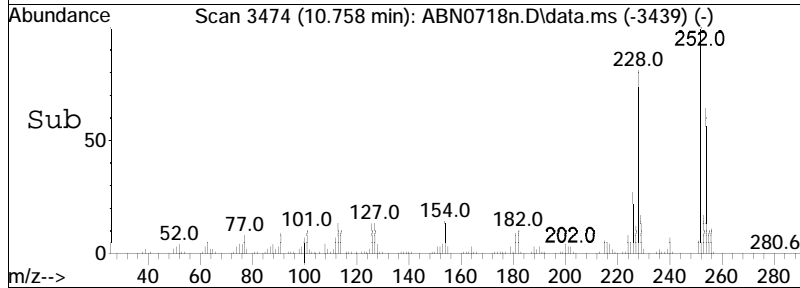
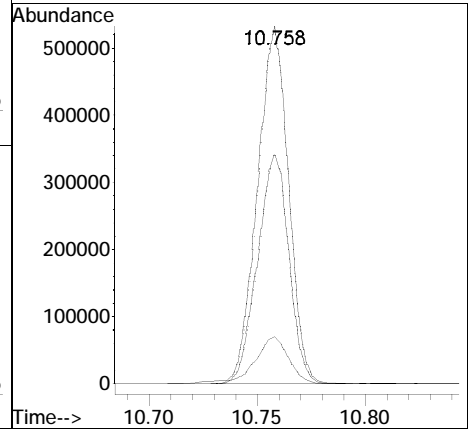
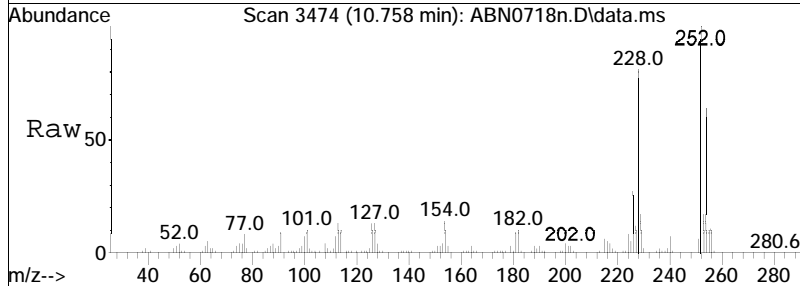
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.2	33.2
229	19.6	15.6	23.4

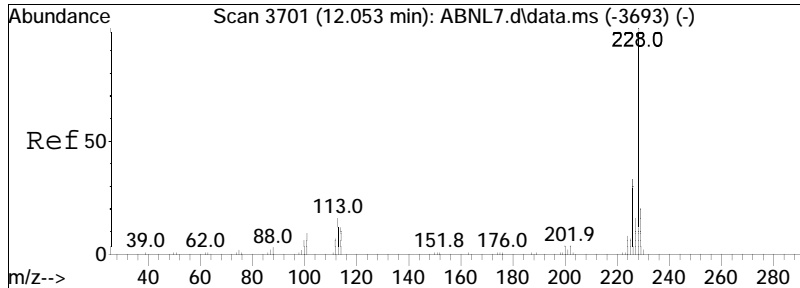




#106
 3,3'-Dichlorobenzidine
 Concen: 49.47 ug/ml
 RT: 10.758 min Scan# 3474
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

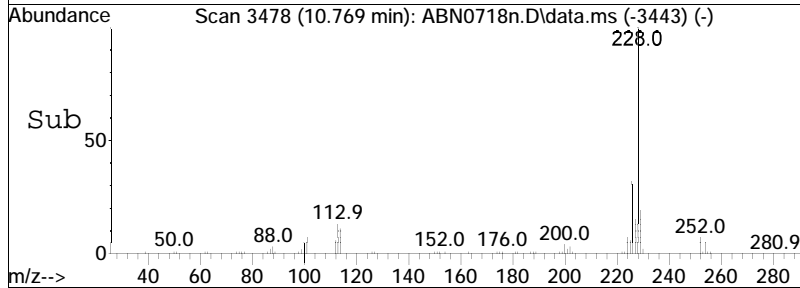
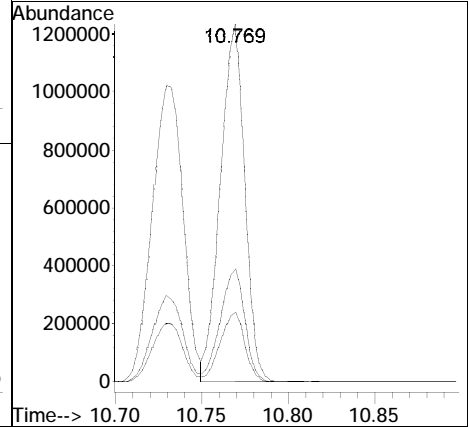
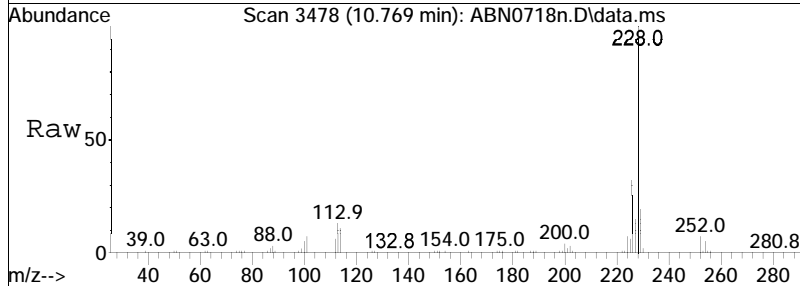
Tgt Ion	Ratio	Lower	Upper
252	100		
126	14.9	13.8	20.6
254	64.8	53.0	79.6

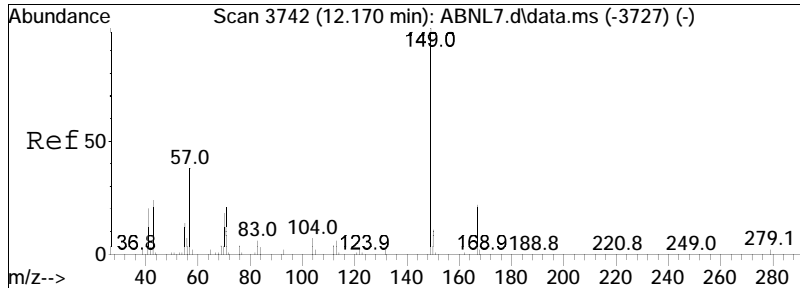




#107
 Chrysene
 Concen: 41.03 ug/ml
 RT: 10.769 min Scan# 3478
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

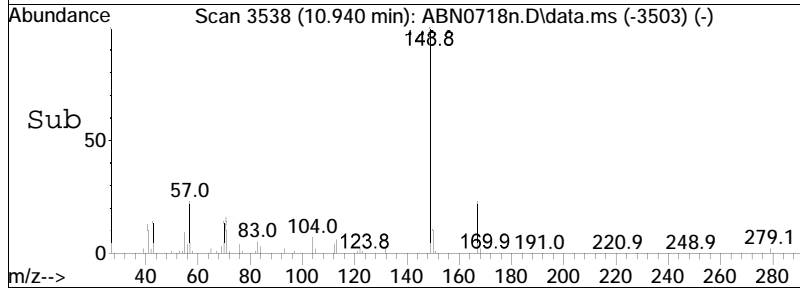
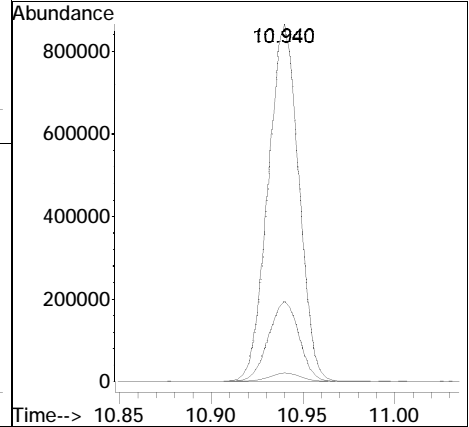
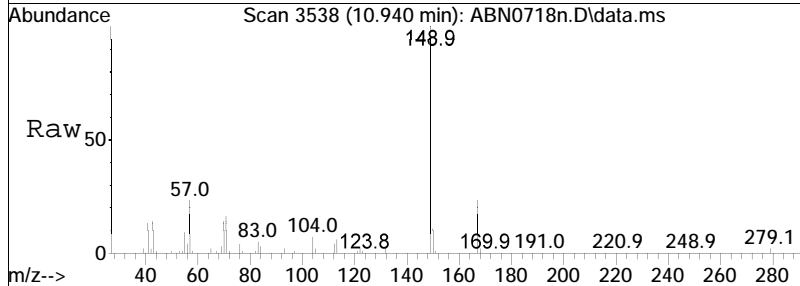
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.9	24.6	37.0
229	19.6	15.8	23.6

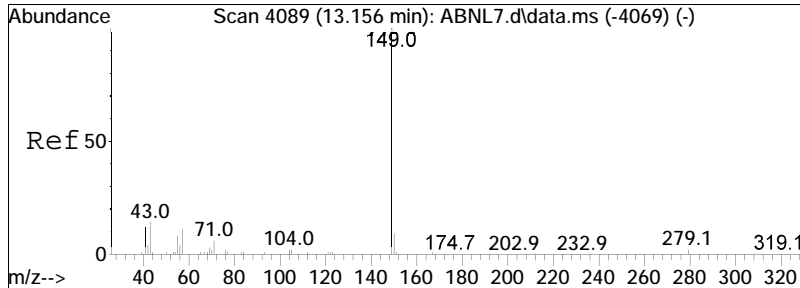




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 47.65 ug/ml
 RT: 10.940 min Scan# 3538
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

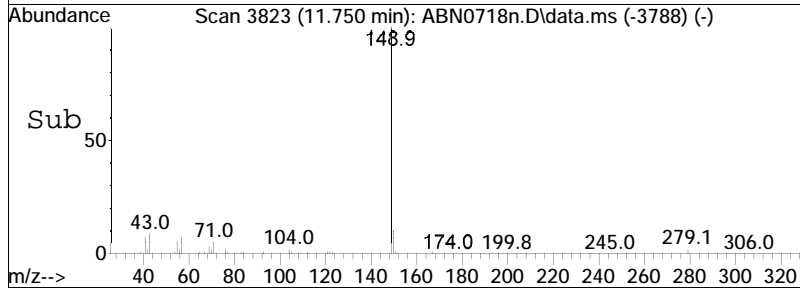
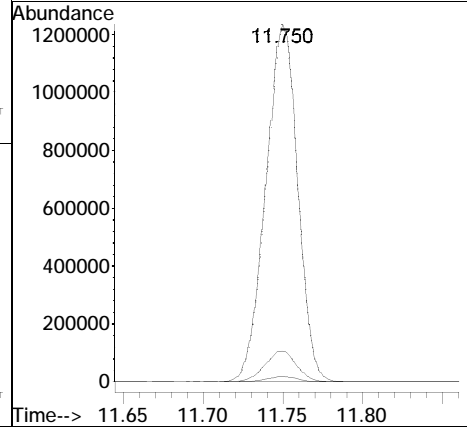
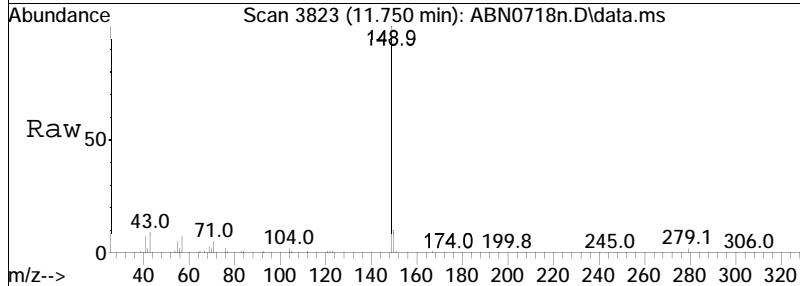
Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.4	19.4	29.0
279	2.3	2.3	3.5#

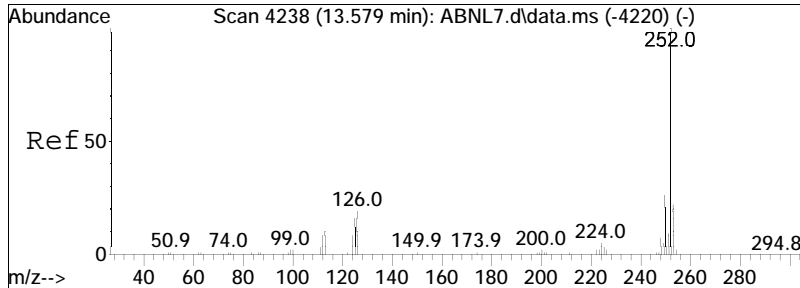




#109
 Di-n-octylphthalate
 Concen: 48.14 ug/ml
 RT: 11.750 min Scan# 3823
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

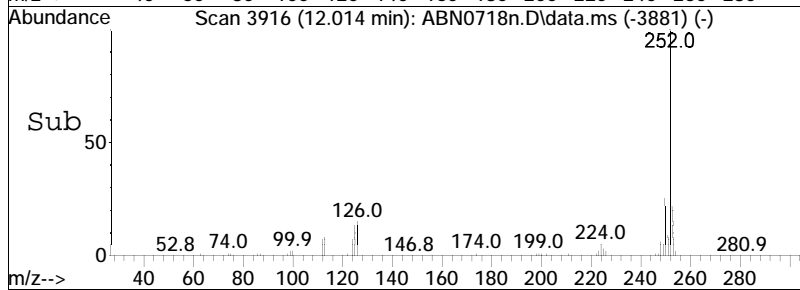
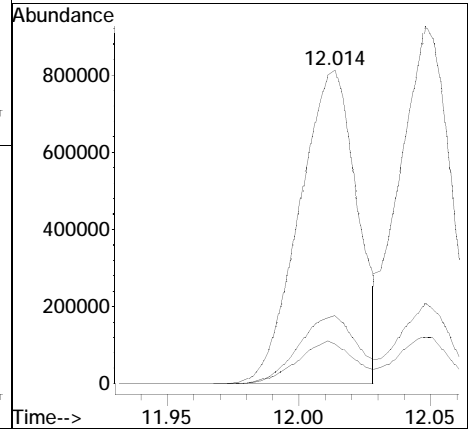
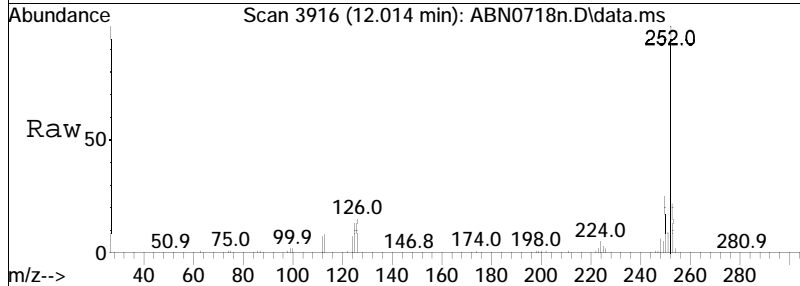
Tgt Ion	Ratio	Lower	Upper
149	100		
43	8.5	10.1	15.1#
167	1.4	1.1	1.7

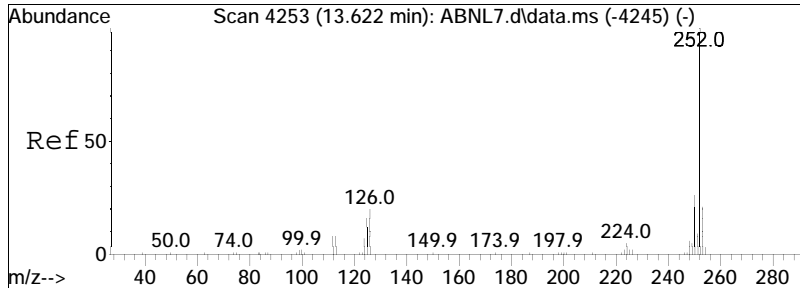




#110
 Benzo(b)fluoranthene
 Concen: 43.51 ug/ml
 RT: 12.014 min Scan# 3916
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

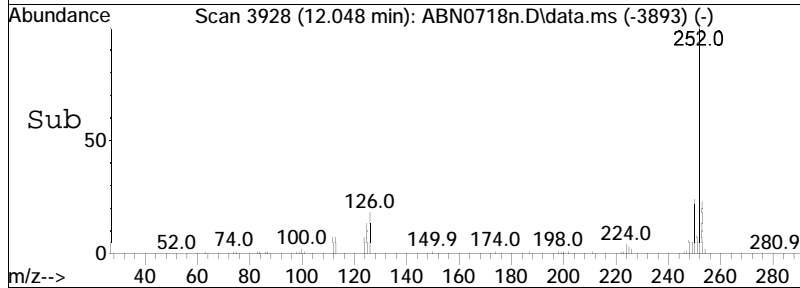
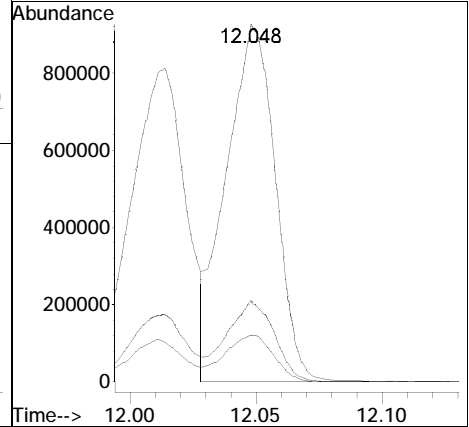
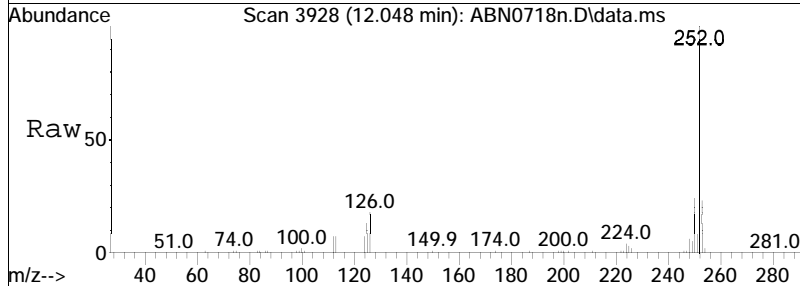
Tgt Ion	Ratio	Lower	Upper
252	100		
125	13.5	11.6	17.4
253	21.9	17.4	26.0

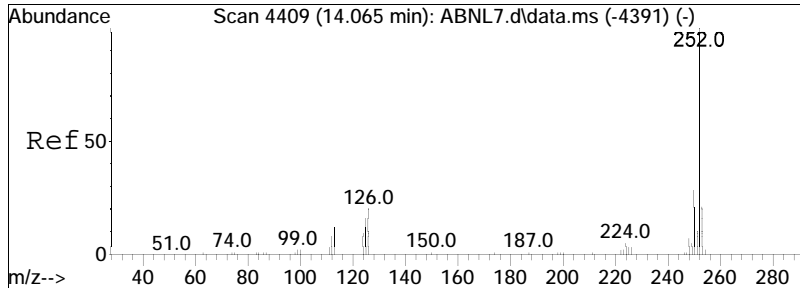




#111
 Benzo(k)fluoranthene
 Concen: 42.96 ug/ml
 RT: 12.048 min Scan# 3928
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

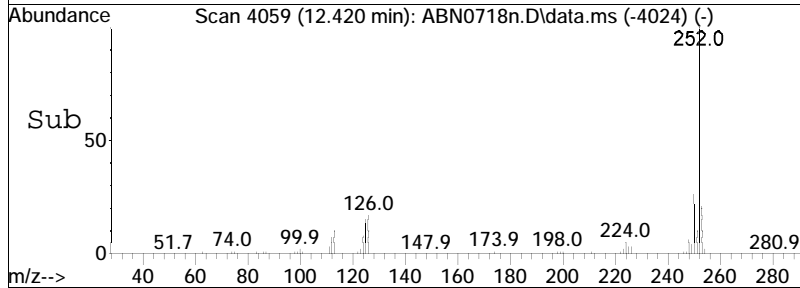
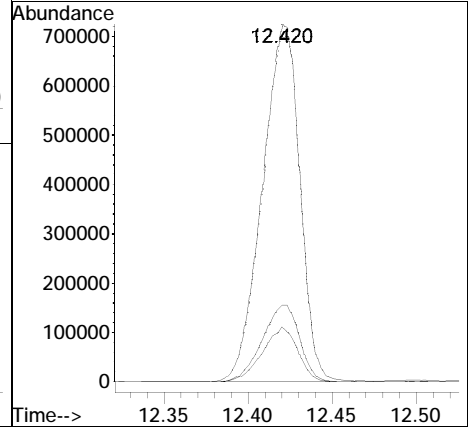
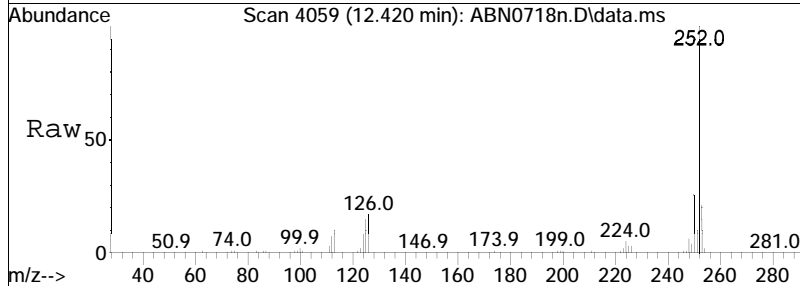
Tgt Ion	Ratio	Lower	Upper
252	100		
125	13.0	11.4	17.0
253	22.1	17.2	25.8

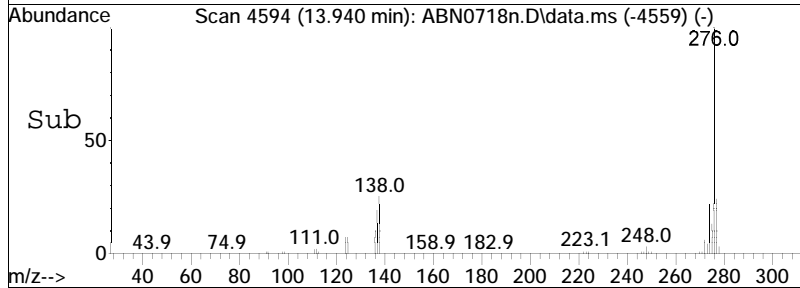
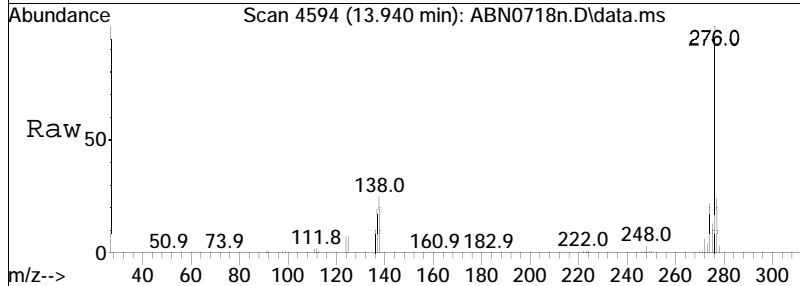
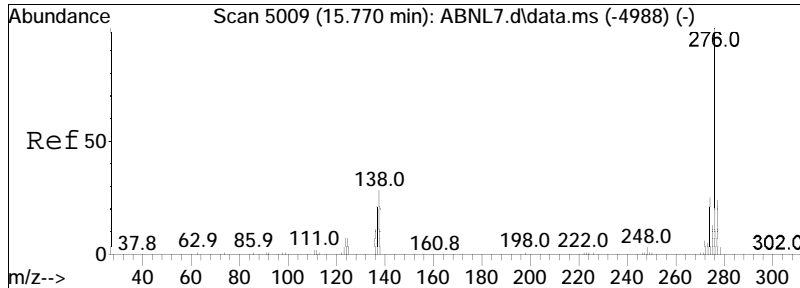




#112
 Benzo(a)pyrene
 Concen: 45.25 ug/ml
 RT: 12.420 min Scan# 4059
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

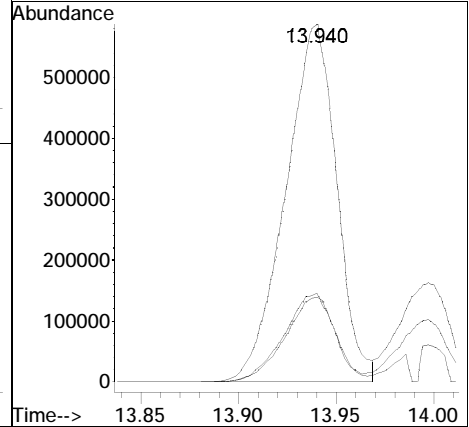
Tgt Ion	Resp	Lower	Upper
252	1108066		
252	100		
125	14.6	12.6	18.8
253	21.6	16.9	25.3

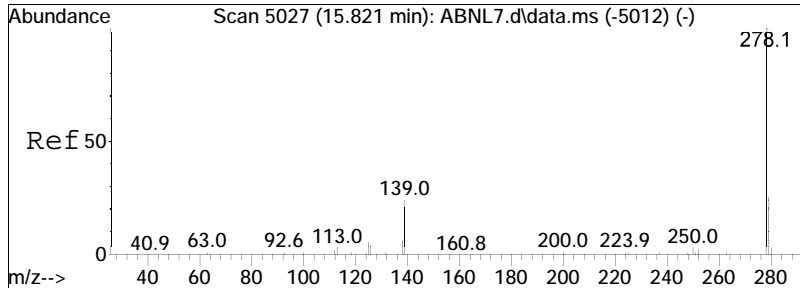




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 50.06 ug/mL
 RT: 13.940 min Scan# 4594
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

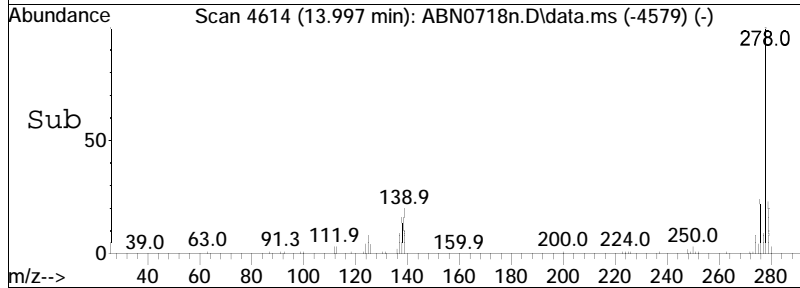
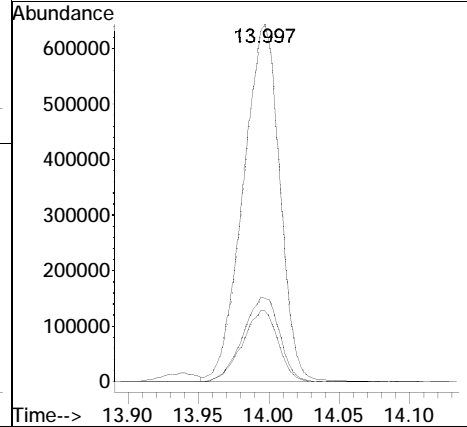
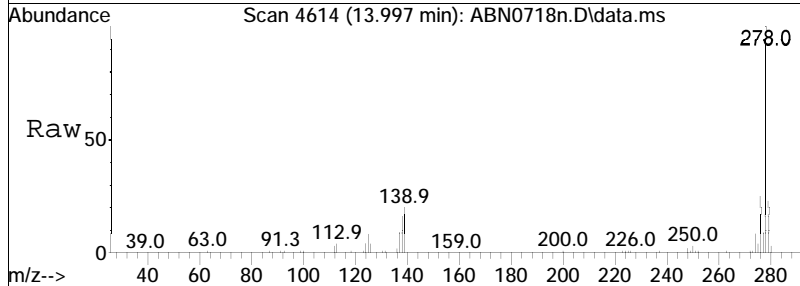
Tgt Ion	Resp	Lower	Upper
276	1058045		
276	100		
138	24.7	21.4	32.0
277	23.8	19.2	28.8

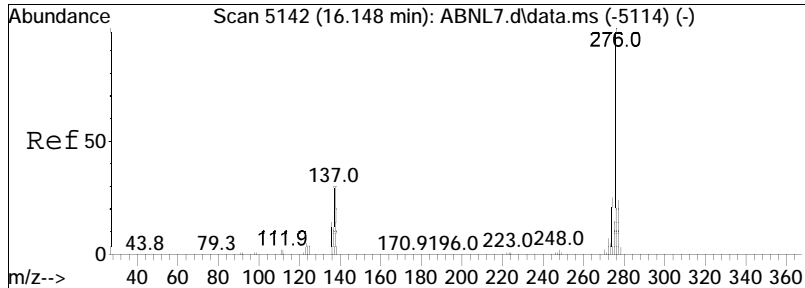




#115
 Dibenzo(a,h)anthracene
 Concen: 45.30 ug/ml
 RT: 13.997 min Scan# 4614
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

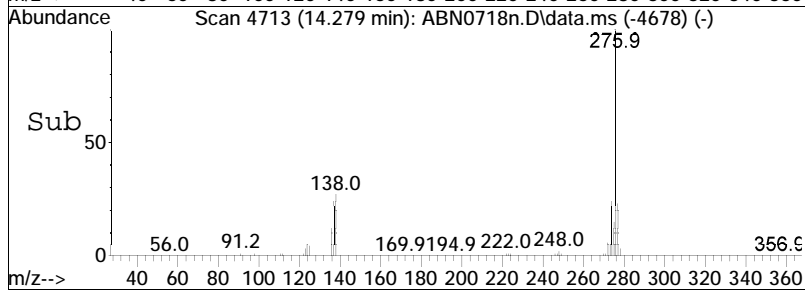
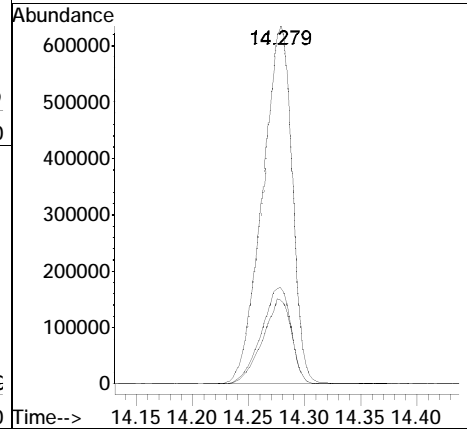
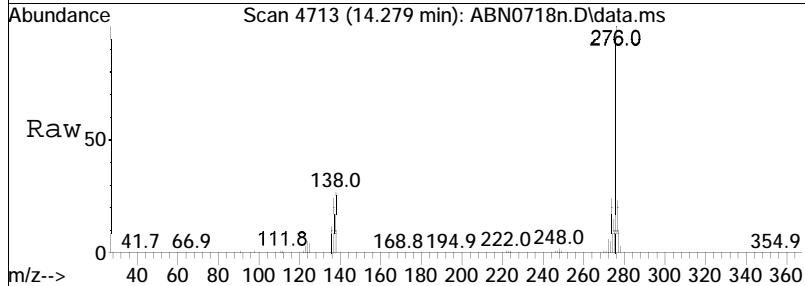
Tgt Ion	Resp	Lower	Upper
278	100		
139	19.8	17.1	25.7
279	24.0	19.3	28.9





#116
 Benzo(ghi)perylene
 Concen: 44.93 ug/ml
 RT: 14.279 min Scan# 4713
 Delta R.T. 0.000 min
 Lab File: ABN0718n.D
 Acq: 18 Jul 2023 9:19 pm

Tgt Ion	Resp	Lower	Upper
276	1159319		
138	27.2	26.7	40.1
277	23.6	19.4	29.2



Manual Integration Report

Data Path : I:\8270\SV103\230718n\ QMethod : FS230515nSV103.m
Data File : ABN0718n.D Operator : SV103:ljpg
Date Inj'd : 7/18/2023 9:19 pm Instrument : SV103
Sample : WG1804789-3,32,,ABN 10133 Quant Date : 7/18/2023 10:06 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\230718n\
 Data File : AP90718n.d
 Acq On : 18 Jul 2023 9:42 pm
 Operator : SV103:ljpg
 Sample : WG1804789-4,32,,AP9 10068 gmr0711A
 Misc : WG1804789,,ical20013
 ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jul 18 22:07:10 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jul 18 22:06:05 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27 I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	0.00
28 T	Benzaldehyde	0.860	0.848	1.4	80	0.00
29 T	Acetophenone	1.741	1.917	-10.1	87	0.00
30 T	m-Toluidine	1.485	1.559	-5.0	79	0.00
31 T	2-Chloroaniline	1.570	1.711	-9.0	85	0.00
55 I	IS2_Naphthalene-d8	1.000	1.000	0.0	79	0.00
56 T	a-Terpineol	0.231	0.272	-17.7	87	0.00
57 T	3-Chloroaniline	0.115	0.137	-19.1	91	0.00
58 T	2,6-Dichlorophenol	0.251	0.309	-23.1#	87	0.00
59 T	1-chloro-2-nitrobenzene	0.121	0.152	-25.6#	92	0.00
60 T	Caprolactam	0.131	0.147	-12.2	78	0.00
61 T	1,2,4,5-Tetrachlorobenzene	0.302	0.348	-15.2	89	0.00
62 T	Biphenyl	0.823	0.844	-2.6	78	0.00
83 I	IS2_Acenaphthene-d10	1.000	1.000	0.0	75	0.00
84 T	Dichloran	0.144	0.220	-52.8#	109	0.00
85 T	Pentachloronitrobenzene	0.135	0.201	-48.9#	102	0.00
98 I	IS2_Phenanthrene-d10	1.000	1.000	0.0	77	0.00
99 T	Diphenamid	0.416	0.564	-35.6#	93	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : AP90718n.d
 Acq On : 18 Jul 2023 9:42 pm
 Operator : SV103:ljpg
 Sample : WG1804789-4,32,,AP9 10068 gmr0711A
 Misc : WG1804789,,ical20013
 ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jul 18 22:07:10 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jul 18 22:06:05 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.822	152	170348	40.000	ug/ml	0.00
55) IS2_Naphthalene-d8	5.078	136	647727	40.000	ug/ml	0.00
83) IS2_Acenaphthene-d10	6.769	164	342963	40.000	ug/ml	0.00
98) IS2_Phenanthrene-d10	8.175	188	702391	40.000	ug/ml	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.367	105	180521	49.289	ug/ml	92
29) Acetophenone	4.257	105	408283	55.080	ug/ml#	92
30) m-Toluidine	4.345	106	332050	52.513	ug/ml	98
31) 2-Chloroaniline	4.703	127	364431	54.514	ug/ml	98
56) a-Terpineol	5.166	59	219878	58.819	ug/ml	87
57) 3-Chloroaniline	5.180	65	110536	59.357	ug/ml	83
58) 2,6-Dichlorophenol	5.200	162	249781	61.425	ug/ml	96
59) 1-chloro-2-nitrobenzene	5.450	111	122994	62.569	ug/ml	96
60) Caprolactam	5.518	55	119410	56.099	ug/ml#	89
61) 1,2,4,5-Tetrachloroben...	5.950	216	281593	57.638	ug/ml	99
62) Biphenyl	6.246	154	683648	51.301	ug/ml	98
84) Dichloran	7.902	206	94223	76.214	ug/ml	88
85) Pentachloronitrobenzene	8.036	237	85974	74.526	ug/ml#	85
99) Diphenamid	9.104	167	495283	67.777	ug/ml	86

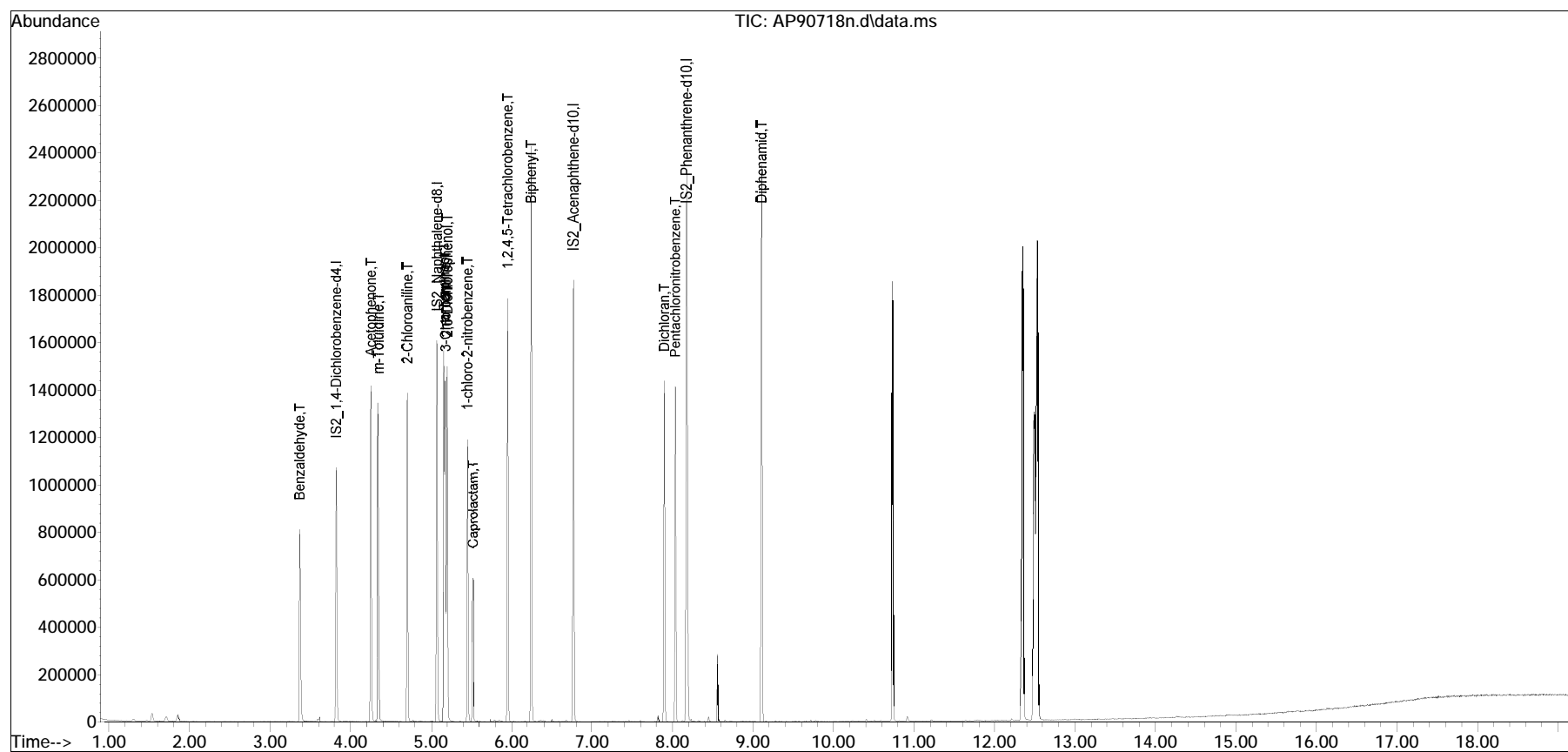
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

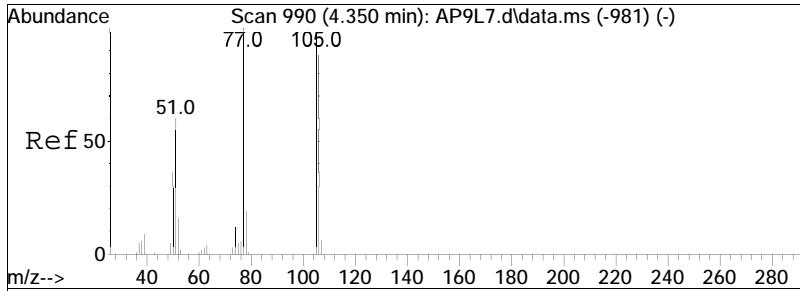
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : AP90718n.d
 Acq On : 18 Jul 2023 9:42 pm
 Operator : SV103:ljpg
 Sample : WG1804789-4,32,,AP9 10068 gmr0711A
 Misc : WG1804789,,ical20013
 ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jul 18 22:07:10 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jul 18 22:06:05 2023
 Response via : Initial Calibration

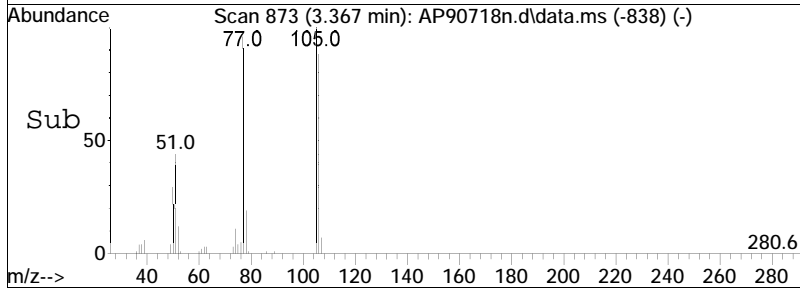
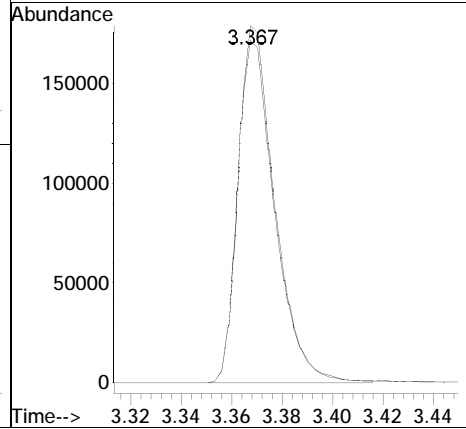
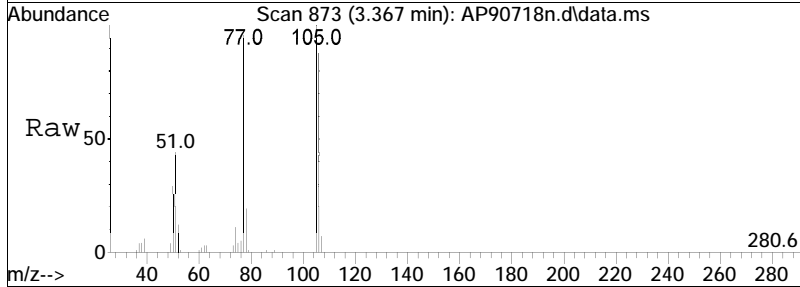
Sub List : AP9ical - AP9 ical sublist

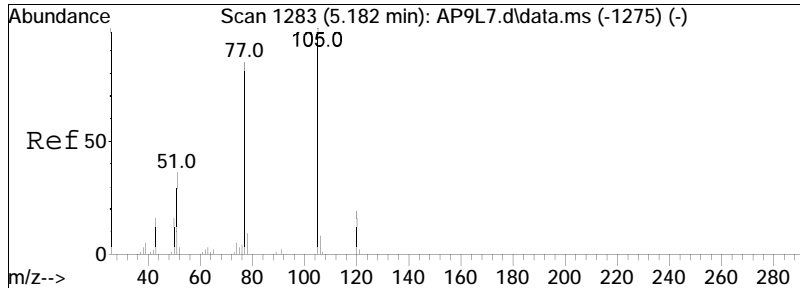




#28
 Benzaldehyde
 Concen: 49.29 ug/ml
 RT: 3.367 min Scan# 873
 Delta R.T. 0.000 min
 Lab File: AP90718n.d
 Acq: 18 Jul 2023 9:42 pm

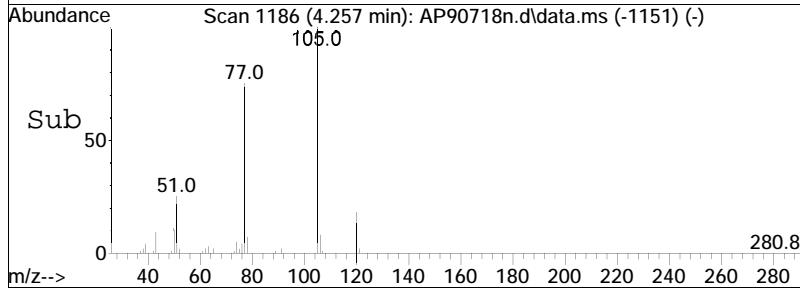
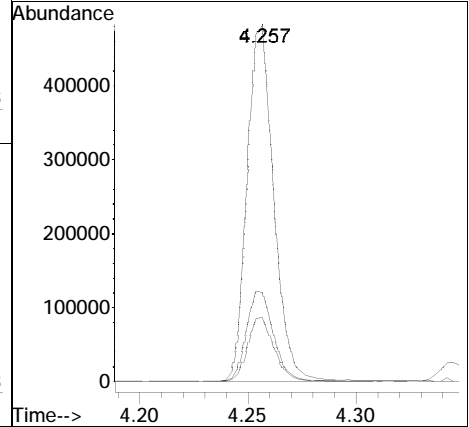
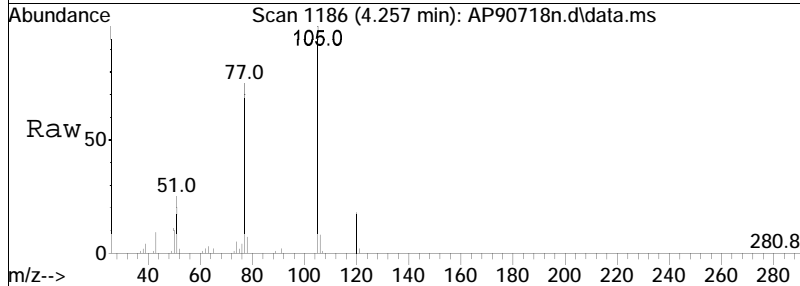
Tgt Ion:105 Resp: 180521
 Ion Ratio Lower Upper
 105 100
 77 97.2 72.0 108.0

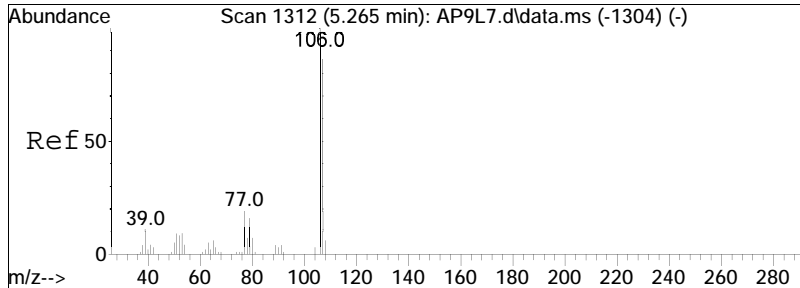




#29
 Acetophenone
 Concen: 55.08 ug/ml
 RT: 4.257 min Scan# 1186
 Delta R.T. 0.000 min
 Lab File: AP90718n.d
 Acq: 18 Jul 2023 9:42 pm

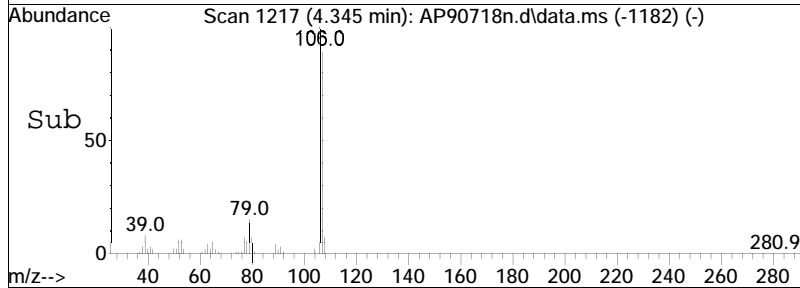
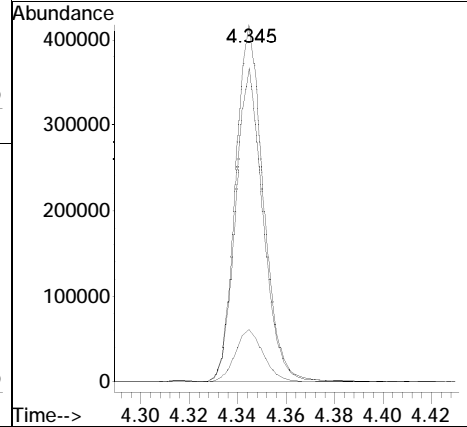
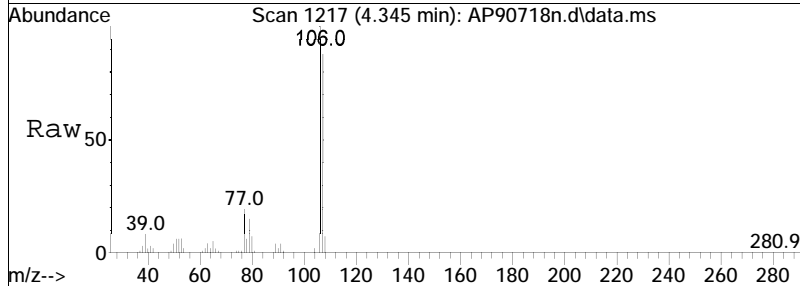
Tgt Ion	Ratio	Lower	Upper
105	100		
120	18.0	18.0	27.0#
51	26.0	23.8	35.6

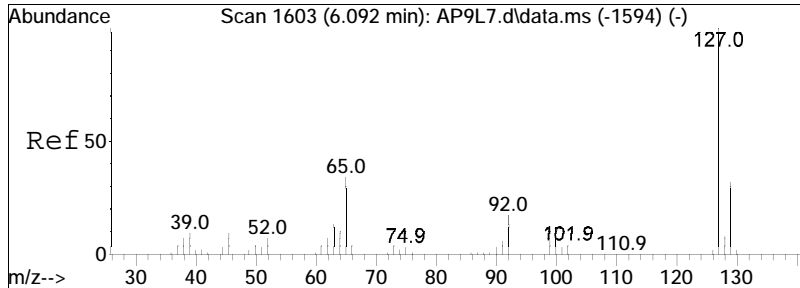




#30
 m-Toluidine
 Concen: 52.51 ug/ml
 RT: 4.345 min Scan# 1217
 Delta R.T. 0.000 min
 Lab File: AP90718n.d
 Acq: 18 Jul 2023 9:42 pm

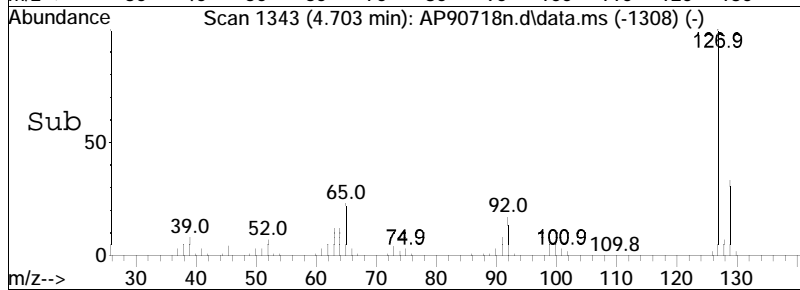
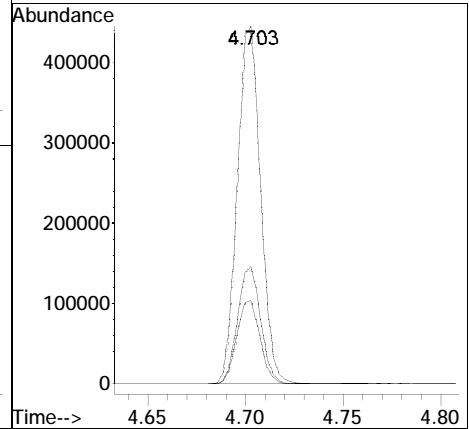
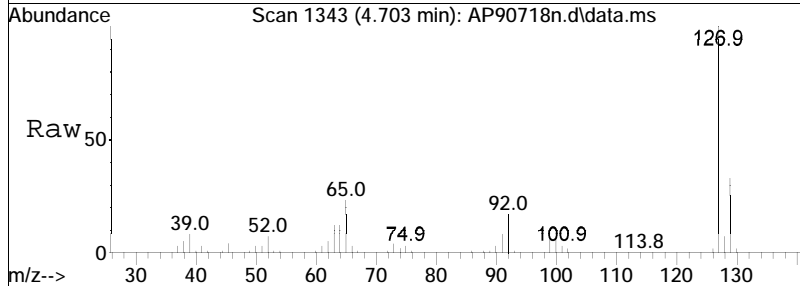
Tgt Ion	Ratio	Lower	Upper
106	100		
107	86.9	71.1	106.7
79	14.9	10.5	15.7

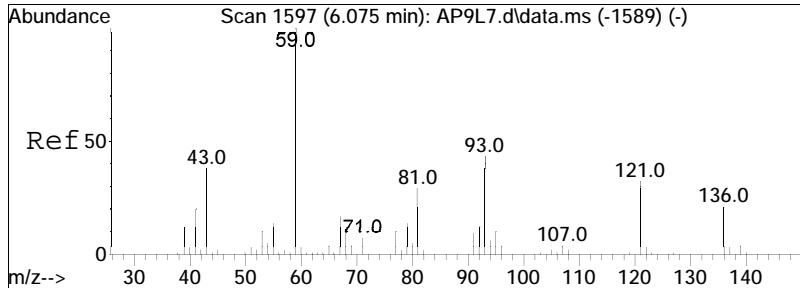




#31
 2-Chloroaniline
 Concen: 54.51 ug/ml
 RT: 4.703 min Scan# 1343
 Delta R.T. 0.000 min
 Lab File: AP90718n.d
 Acq: 18 Jul 2023 9:42 pm

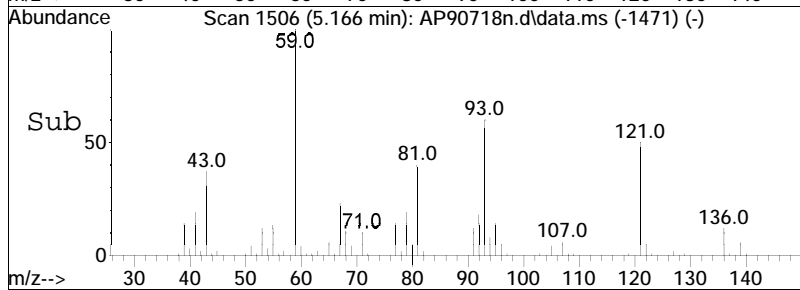
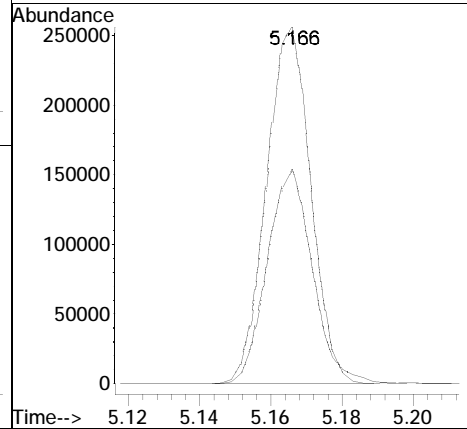
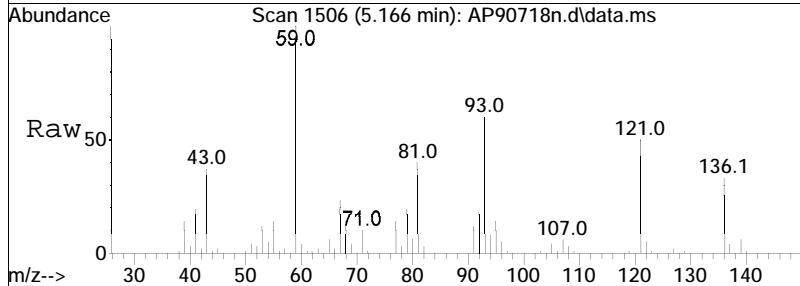
Tgt Ion	Resp	Lower	Upper
127	100		
129	32.5	25.9	38.9
65	23.5	17.1	25.7

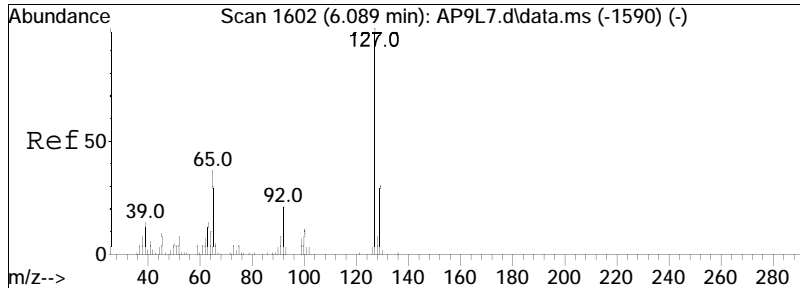




#56
 a-Terpineol
 Concen: 58.82 ug/ml
 RT: 5.166 min Scan# 1506
 Delta R.T. 0.000 min
 Lab File: AP90718n.d
 Acq: 18 Jul 2023 9:42 pm

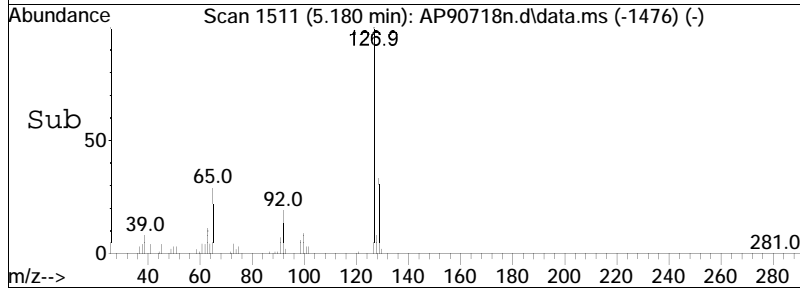
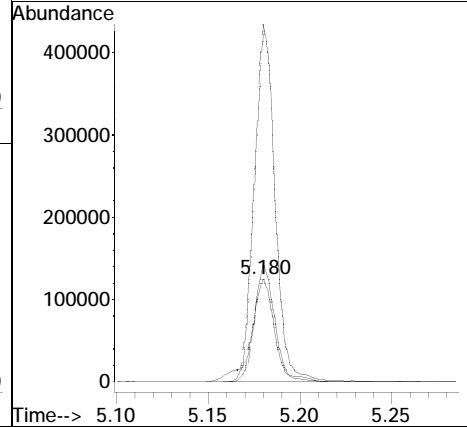
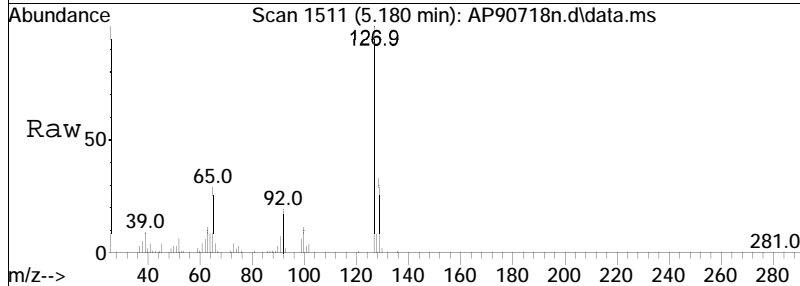
Tgt Ion: 59 Resp: 219878
 Ion Ratio Lower Upper
 59 100
 93 61.9 42.2 63.4

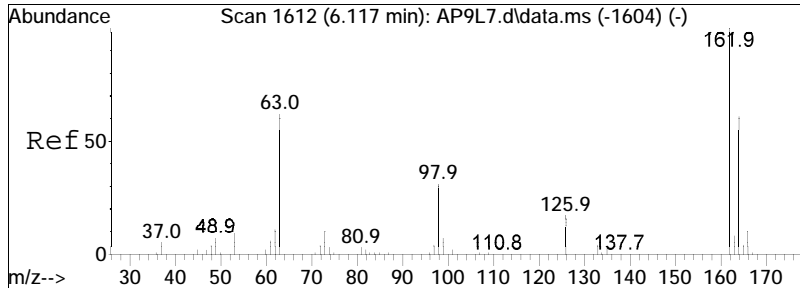




#57
 3-Chloroaniline
 Concen: 59.36 ug/ml
 RT: 5.180 min Scan# 1511
 Delta R.T. 0.000 min
 Lab File: AP90718n.d
 Acq: 18 Jul 2023 9:42 pm

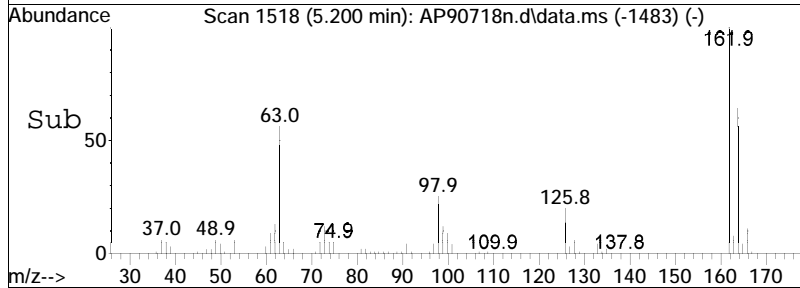
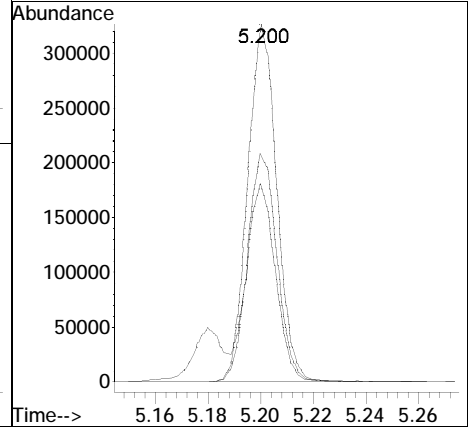
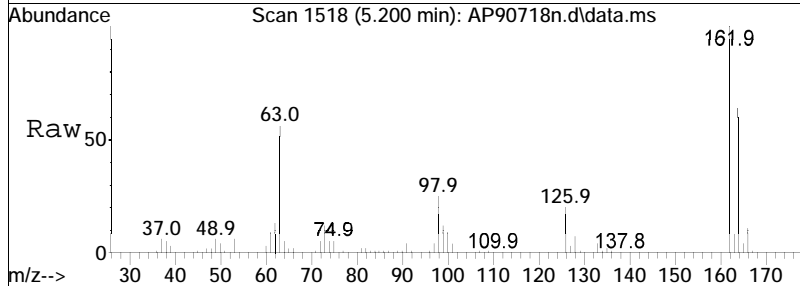
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
65	100		
127	306.9	278.4	417.6
129	98.5	88.9	133.3

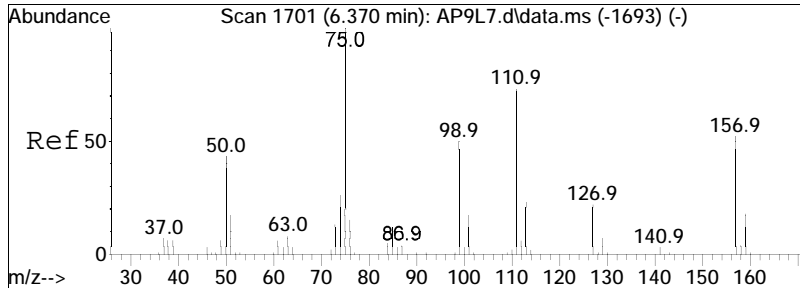




#58
 2,6-Dichlorophenol
 Concen: 61.42 ug/ml
 RT: 5.200 min Scan# 1518
 Delta R.T. 0.000 min
 Lab File: AP90718n.d
 Acq: 18 Jul 2023 9:42 pm

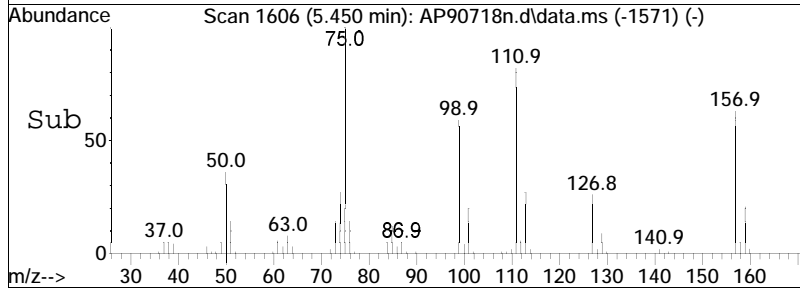
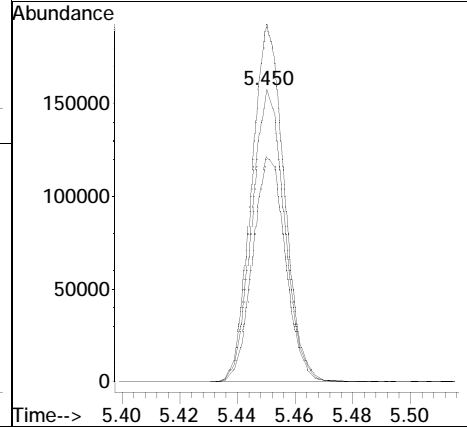
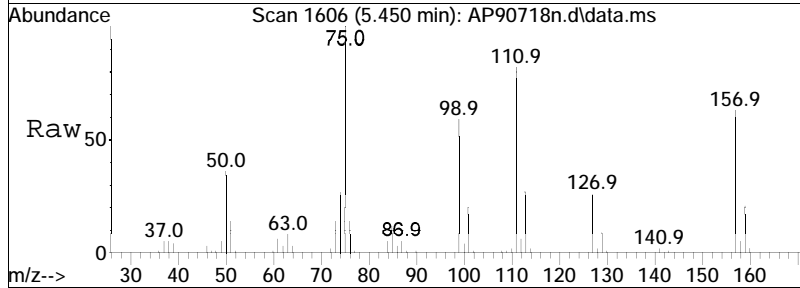
Tgt Ion	Ratio	Resp	Lower	Upper
162	100	249781		
164	64.9		50.8	76.2
63	54.5		47.4	71.0

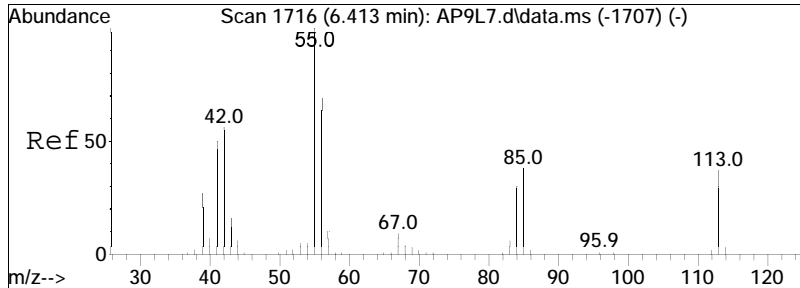




#59
 1-chloro-2-nitrobenzene
 Concen: 62.57 ug/ml
 RT: 5.450 min Scan# 1606
 Delta R.T. 0.000 min
 Lab File: AP90718n.d
 Acq: 18 Jul 2023 9:42 pm

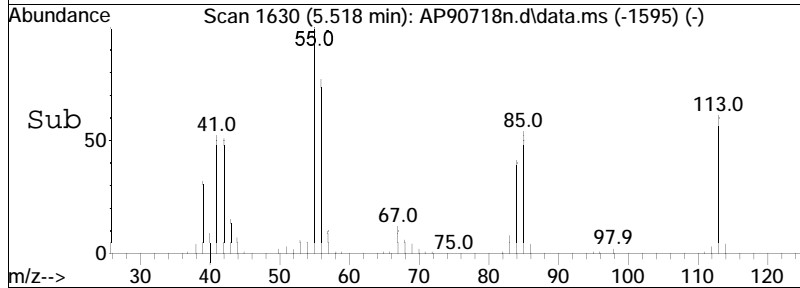
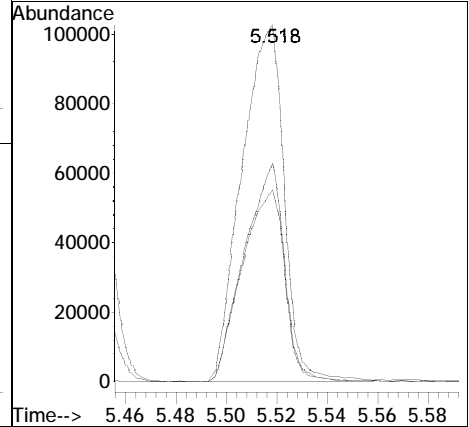
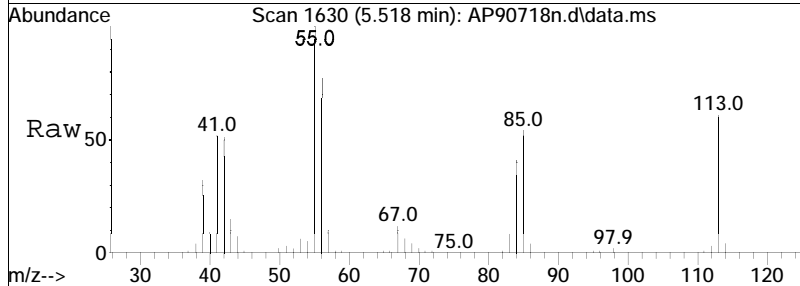
Tgt Ion	Ratio	Lower	Upper
111	100		
157	78.1	62.6	94.0
75	122.7	93.0	139.6

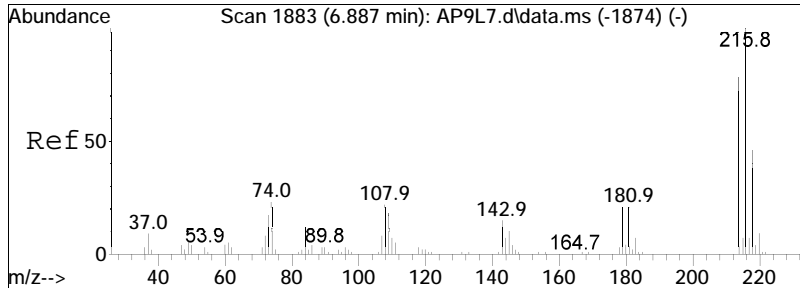




#60
 Caprolactam
 Concen: 56.10 ug/ml
 RT: 5.518 min Scan# 1630
 Delta R.T. 0.000 min
 Lab File: AP90718n.d
 Acq: 18 Jul 2023 9:42 pm

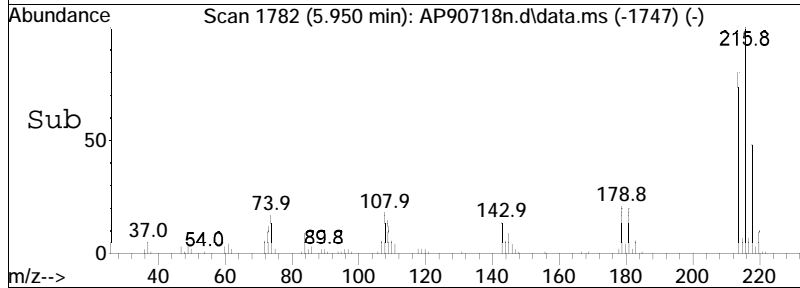
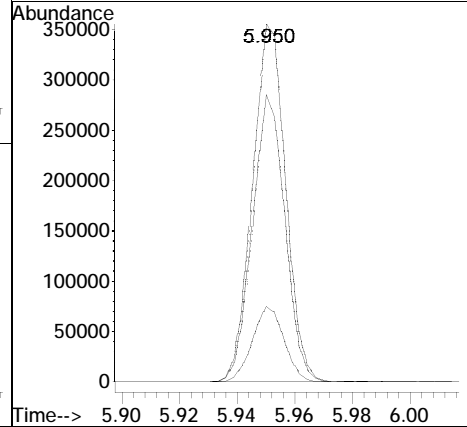
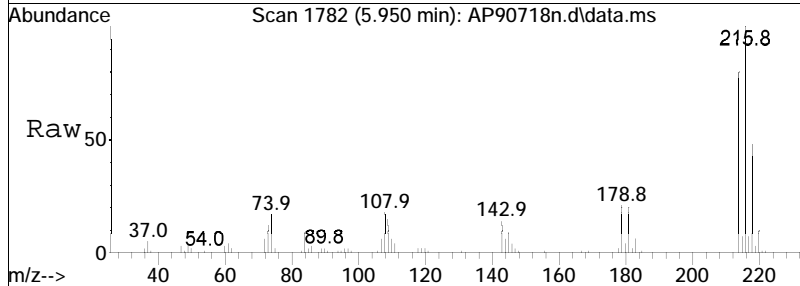
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
55	100		
85	54.3	32.6	48.8#
113	58.0	44.6	66.8

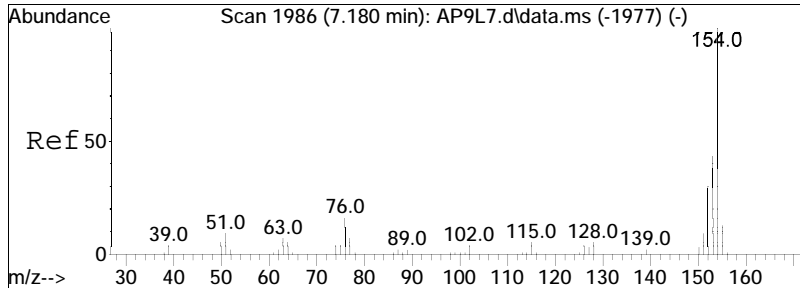




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 57.64 ug/ml
 RT: 5.950 min Scan# 1782
 Delta R.T. 0.000 min
 Lab File: AP90718n.d
 Acq: 18 Jul 2023 9:42 pm

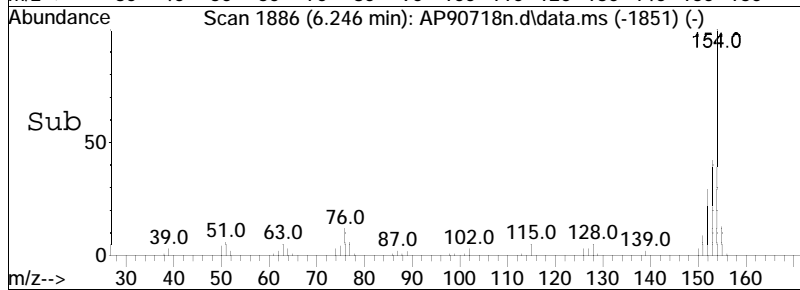
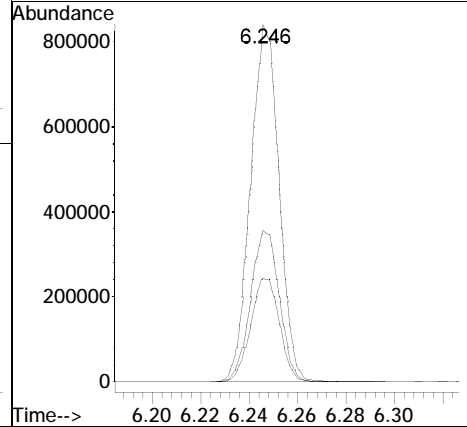
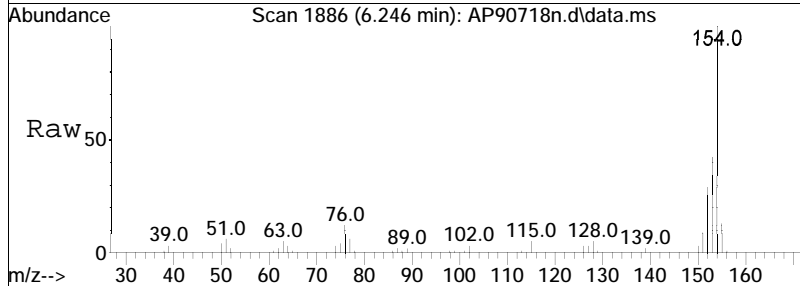
Tgt Ion	Ratio	Lower	Upper
216	100		
214	78.6	63.0	94.6
179	20.5	17.4	26.2

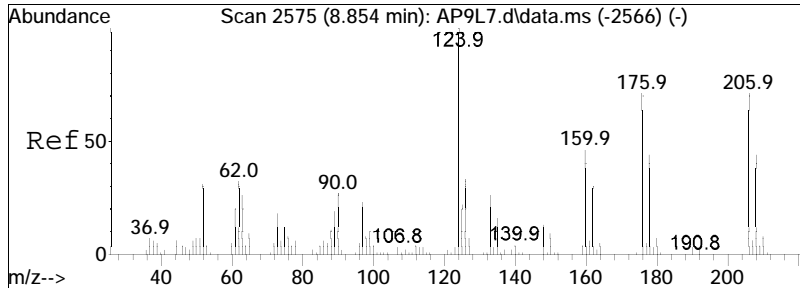




#62
 Biphenyl
 Concen: 51.30 ug/ml
 RT: 6.246 min Scan# 1886
 Delta R.T. 0.000 min
 Lab File: AP90718n.d
 Acq: 18 Jul 2023 9:42 pm

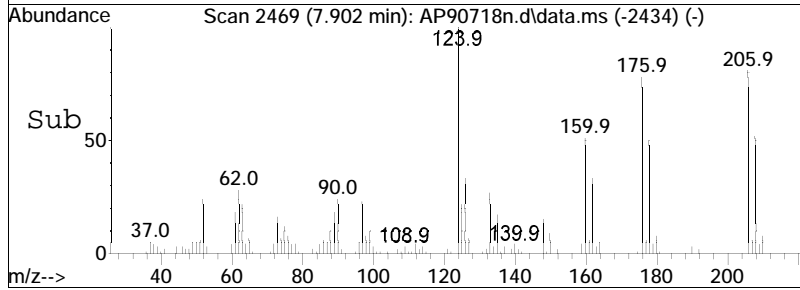
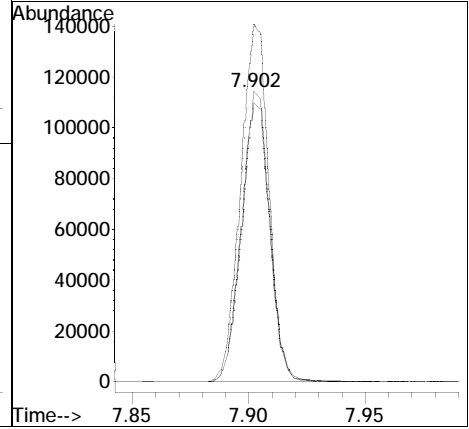
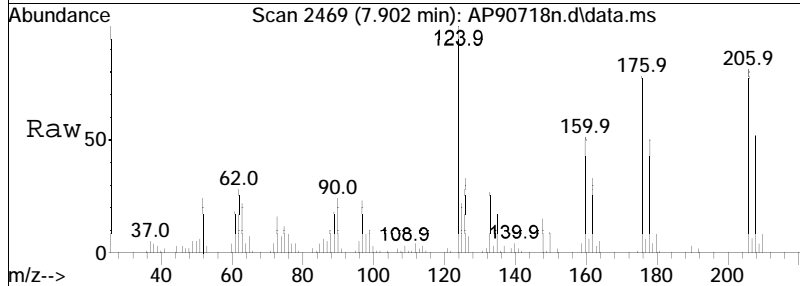
Tgt Ion	Ratio	Lower	Upper
154	100		
153	42.9	33.5	50.3
152	29.6	22.6	34.0

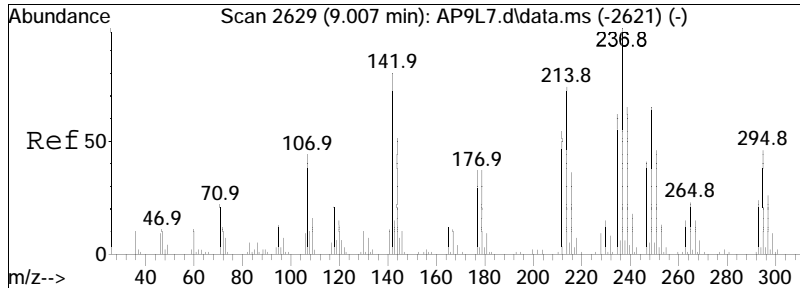




#84
 Dichloran
 Concen: 76.21 ug/ml
 RT: 7.902 min Scan# 2469
 Delta R.T. 0.000 min
 Lab File: AP90718n.d
 Acq: 18 Jul 2023 9:42 pm

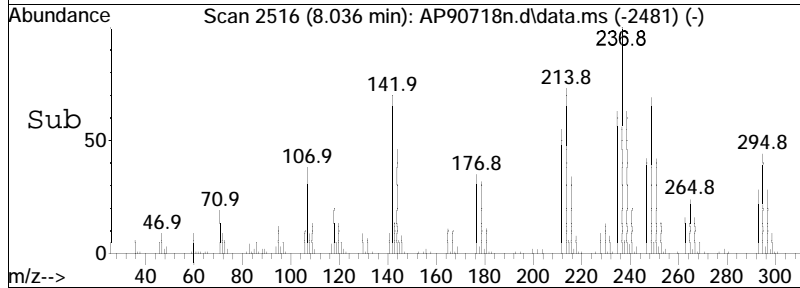
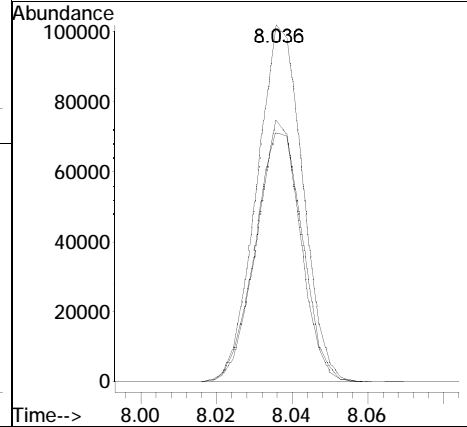
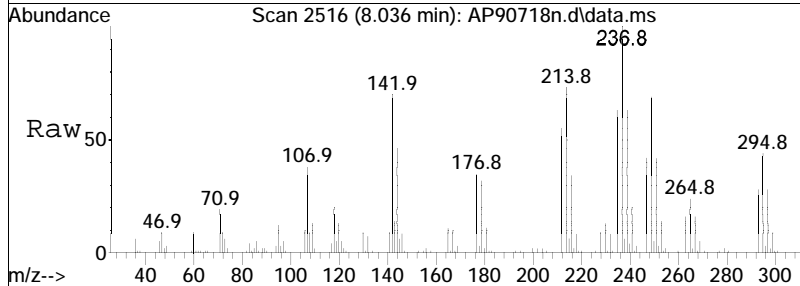
Tgt Ion	Resp	Lower	Upper
206	100		
176	98.5	72.3	108.5
124	125.6	114.0	171.0

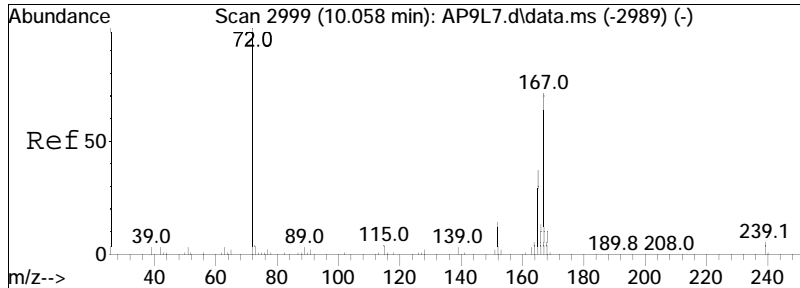




#85
 Pentachloronitrobenzene
 Concen: 74.53 ug/ml
 RT: 8.036 min Scan# 2516
 Delta R.T. 0.000 min
 Lab File: AP90718n.d
 Acq: 18 Jul 2023 9:42 pm

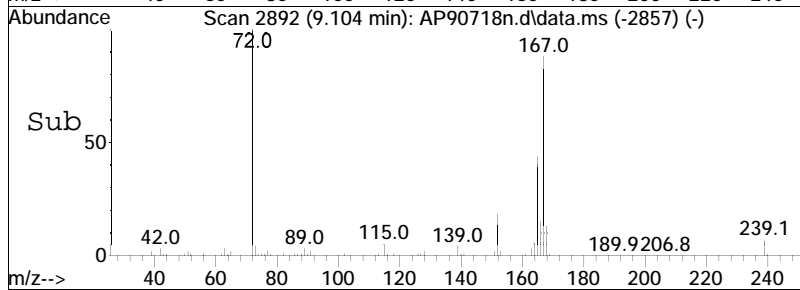
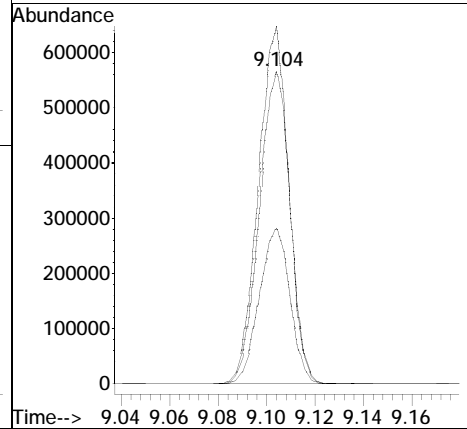
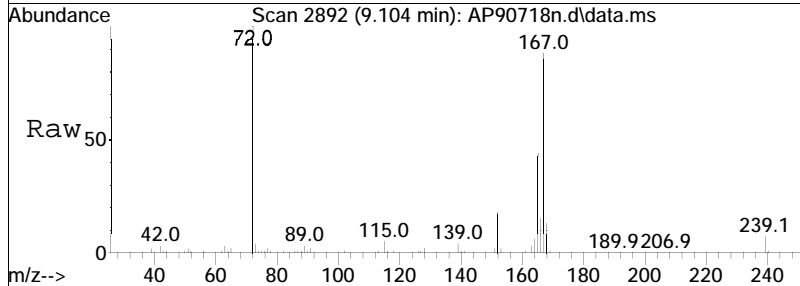
Tgt Ion	Resp	Lower	Upper
237	100		
142	70.5	75.2	112.8#
214	72.0	60.5	90.7





#99
 Diphenamid
 Concen: 67.78 ug/ml
 RT: 9.104 min Scan# 2892
 Delta R.T. 0.000 min
 Lab File: AP90718n.d
 Acq: 18 Jul 2023 9:42 pm

Tgt Ion	Resp	Lower	Upper
167	100		
72	111.9	105.4	158.2
165	49.8	36.2	54.4



Manual Integration Report

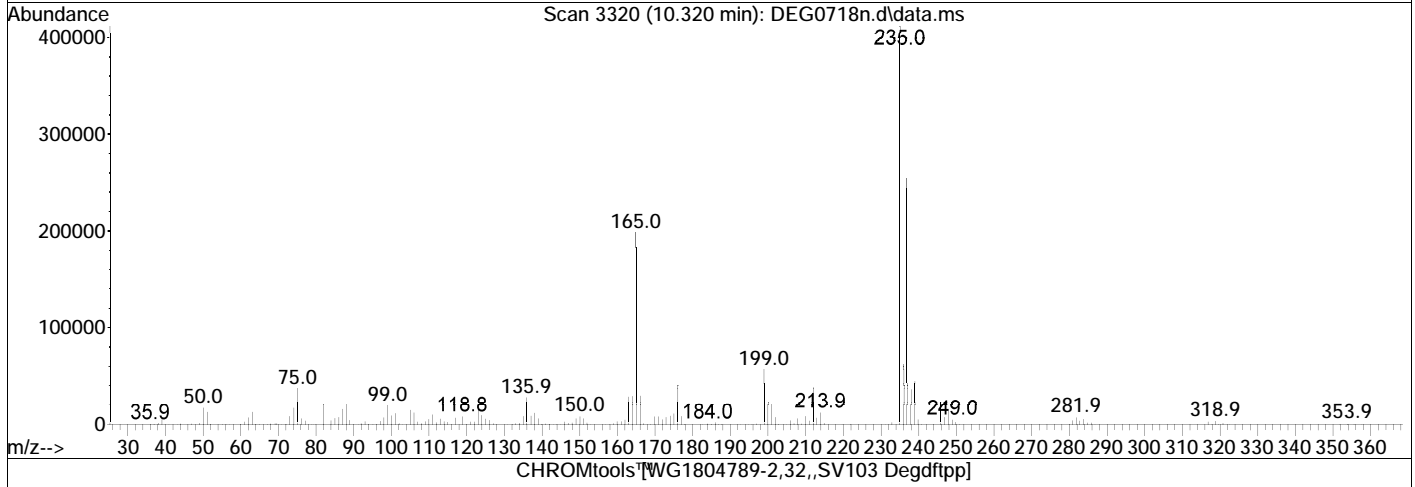
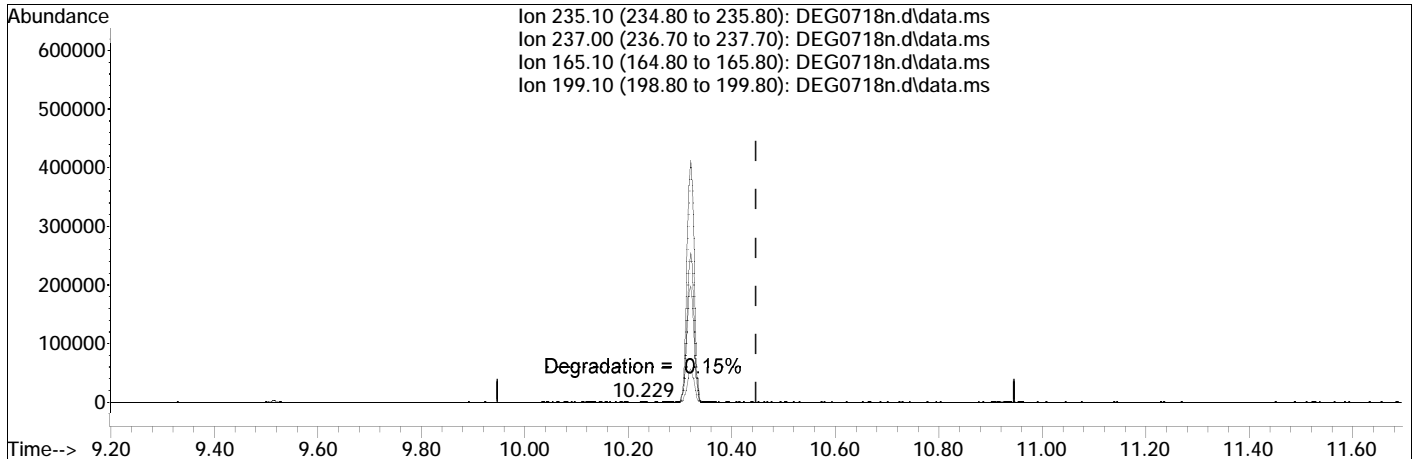
Data Path : I:\8270\SV103\230718n\ QMethod : FS230515nSV103.m
Data File : AP90718n.d Operator : SV103:ljpg
Date Inj'd : 7/18/2023 9:42 pm Instrument : SV103
Sample : WG1804789-4,32,,AP9 10068 Quant Date : 7/18/2023 10:06 pm

There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV103\230718n\
Data File : DEG0718n.d
Acq On : 18 Jul 2023 8:30 pm
Operator : SV103:ljj
Sample : WG1804789-2,32,,SV103 Degdftpp
Misc : WG1804789,,ical20013
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jul 18 20:53:43 2023
Quant Method : I:\8270\SV103\230718n\DftppSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 07 09:14:14 2017
Response via : Initial Calibration



CHROMtools\WG1804789-2,32,,SV103 Degdftpp]

(6) DDT (T)
10.320min (-0.127) 0.00
response 370938

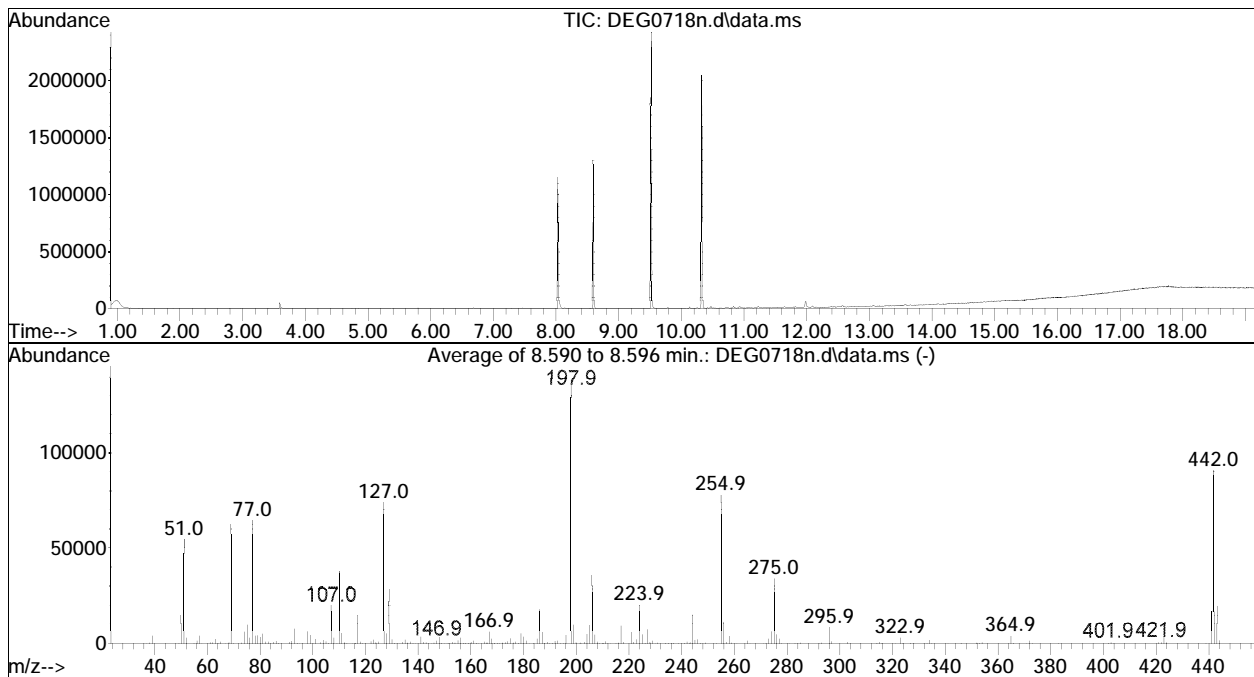
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	59.90	62.09
165.10	58.20	49.05
199.10	14.20	13.78

DFTPP

Data Path : I:\8270\SV103\230718n\
 Data File : DEG0718n.d
 Acq On : 18 Jul 2023 8:30 pm
 Operator : SV103:mg
 Sample : WG1804789-1,32,,SV103 Degdftpp
 Misc : WG1804789,,ical20013
 ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV103\230718n\FS230515nSV103.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Tue Jul 18 22:06:03 2023



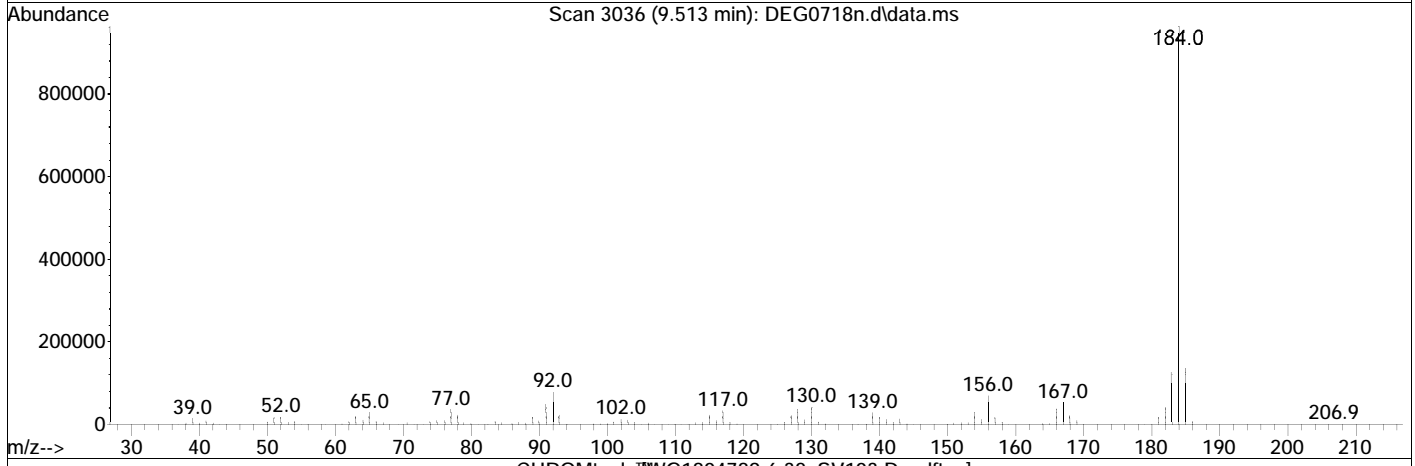
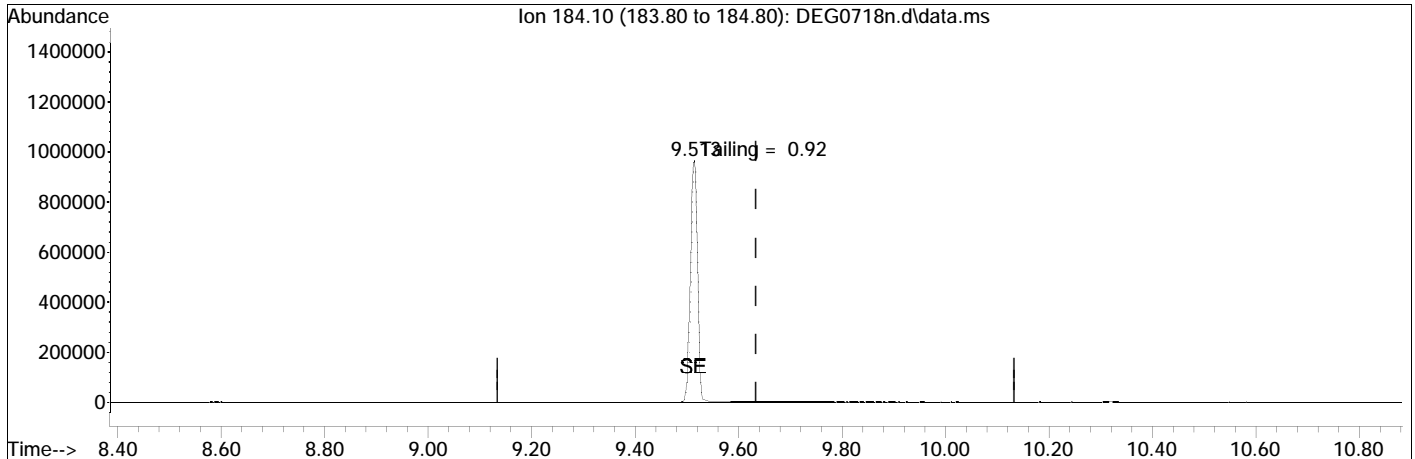
Spectrum Information: Average of 8.590 to 8.596 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.3	54307	PASS
68	69	0.00	2	1.3	840	PASS
69	69	0.20	100	100.0	62266	PASS
70	69	0.00	2	0.4	276	PASS
127	198	10	80	53.4	73891	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	138355	PASS
199	198	5	9	6.7	9279	PASS
275	198	10	60	24.6	33981	PASS
365	198	1	100	2.9	3947	PASS
441	442	0.01	24	18.5	16763	PASS
442	198	50	100	65.6	90827	PASS
443	442	15	24	21.2	19261	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV103\230718n\
Data File : DEG0718n.d
Acq On : 18 Jul 2023 8:30 pm
Operator : SV103:ljj
Sample : WG1804789-6,32,,SV103 Degdftpp
Misc : WG1804789,,ical20013
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jul 18 20:53:43 2023
Quant Method : I:\8270\SV103\230718n\DftppSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 07 09:14:14 2017
Response via : Initial Calibration



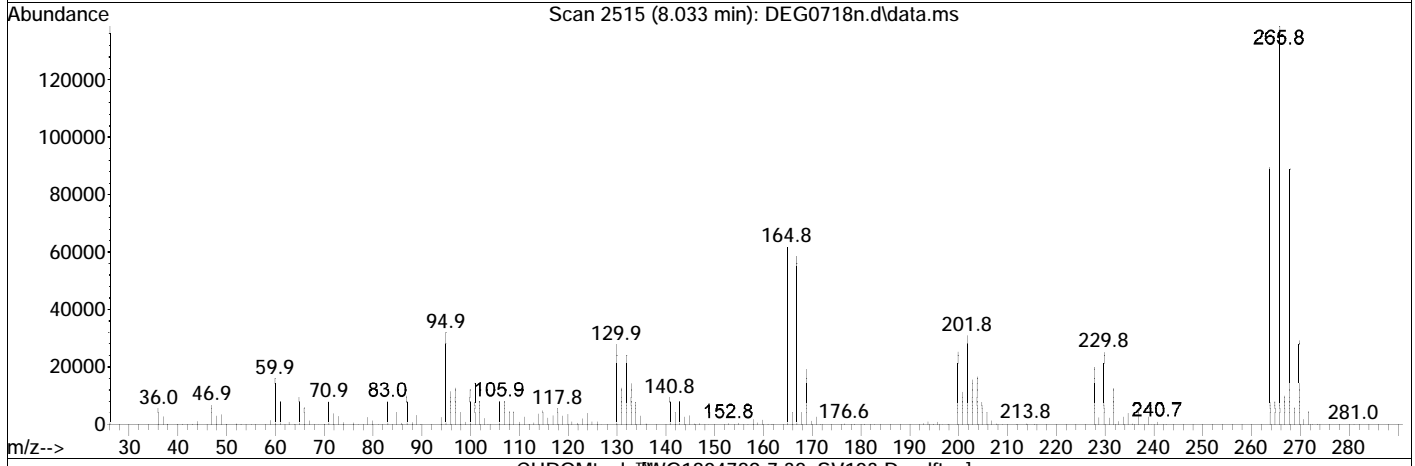
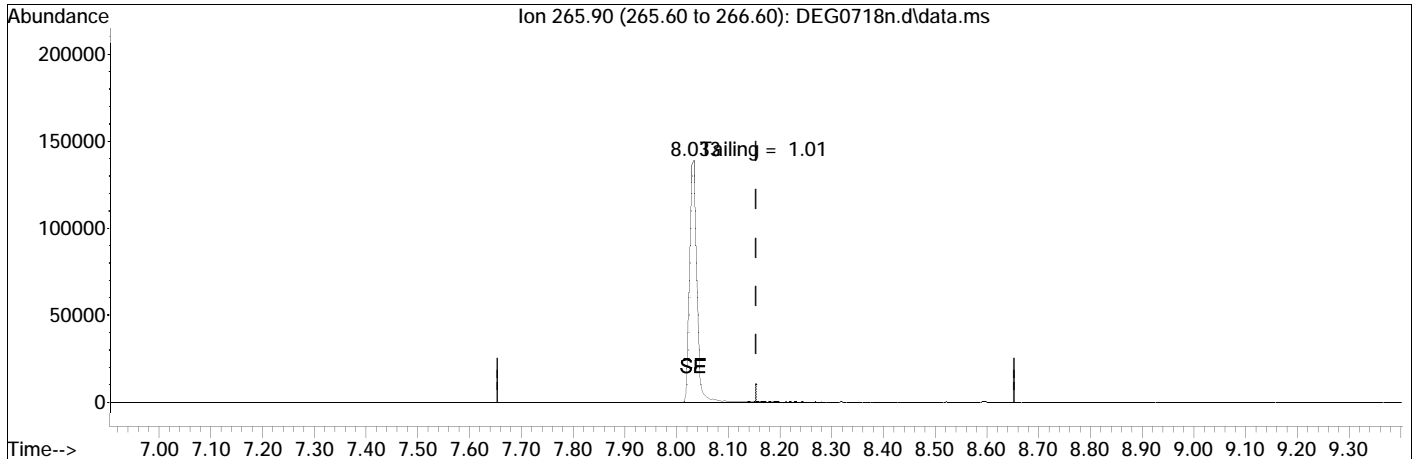
CHROMtools [WG1804789-6,32,,SV103 Degdftpp]

(3) Benzidine (T)		
9.513min (-0.121) 0.00		
response 850600		
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV103\230718n\
 Data File : DEG0718n.d
 Acq On : 18 Jul 2023 8:30 pm
 Operator : SV103:ljj
 Sample : WG1804789-7,32,,SV103 Degdftpp
 Misc : WG1804789,,ical20013
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jul 18 20:53:43 2023
 Quant Method : I:\8270\SV103\230718n\DftppSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Nov 07 09:14:14 2017
 Response via : Initial Calibration



(1) Pentachlorophenol (T)
 8.033min (-0.121) 0.00 M2
 response 125272

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV103
Lab File ID : ADP0718N
Sample No : WG1804789-5
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/18/23 20:54
Init. Calib. Date(s) : 05/15/23 05/16/23
Init. Calib. Times : 21:20 13:32

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	79	0
1,4-Dioxane	0.464	0.467	-	-0.6	20	85	0
n-Decane	1.295	1.257	-	2.9	20	76	0
IS3_Acenaphthene-d10	1	1	-	0	20	85	0
Atrazine	0.32	0.446	-	-39.4*	20	101	0
IS3_Phenanthrene-d10	1	1	-	0	20	83	0
n-Octadecane	0.402	0.467	-	-16.2	20	89	0
Parathion	50	82.947	-	-65.9*	20	144	0
3,3'-Dimethylbenzidine	50	67.557	-	-35.1*	20	103	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV103
 Lab File ID : ABN0718N
 Sample No : WG1804789-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/18/23 21:19
 Init. Calib. Date(s) : 05/15/23 05/16/23
 Init. Calib. Times : 21:20 13:32

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	154	0
n-Nitrosodimethylamine	0.713	0.647	-	9.3	20	131	0
Pyridine	1.184	1.117	-	5.7	20	135	0
2-Fluorophenol	1.115	1.065	-	4.5	20	137	0
Aniline	1.818	1.689	-	7.1	20	132	0
2-Chlorophenol	1.296	1.22	-	5.9	20	134	0
Phenol-d6	1.39	1.304	-	6.2	20	134	0
Phenol	1.587	1.376	-	13.3	20	124	0
Bis(2-chloroethyl)ether	1.121	1.056	-	5.8	20	137	0
1,3-Dichlorobenzene	1.515	1.361	-	10.2	20	133	0
1,4-Dichlorobenzene	1.548	1.396	-	9.8	20	135	0
1,2-Dichlorobenzene	1.469	1.326	-	9.7	20	132	0
Benzyl alcohol	0.883	0.972	-	-10.1	20	150	0
Bis(2-chloroisopropyl)ethe	1.794	1.237	-	31*	20	99	0
2-Methylphenol	1.107	1.052	-	5	20	134	0
Hexachloroethane	0.531	0.545	-	-2.6	20	150	0
n-Nitrosodi-n-propylamine	0.773	0.808	-	-4.5	20	146	0
3-Methylphenol/4-Methylphe	1.167	1.131	-	3.1	20	136	0
Nitrobenzene-d5	1.153	1.248	-	-8.2	20	150	0
Nitrobenzene	1.164	1.232	-	-5.8	20	146	0
Isophorone	2.108	2.154	-	-2.2	20	140	0
2-Nitrophenol	0.569	0.648	-	-13.9	20	153	0
2,4-Dimethylphenol	1.194	1.12	-	6.2	20	130	0
Bis(2-chloroethoxy)methane	1.369	1.351	-	1.3	20	141	0
2,4-Dichlorophenol	1.058	1.031	-	2.6	20	133	0
1,2,4-Trichlorobenzene	1.203	1.121	-	6.8	20	137	0
IS1_Naphthalene-d8	1	1	-	0	20	152	0
Naphthalene	1.052	0.922	-	12.4	20	128	0
Benzoic Acid	50	57.673	-	-15.3	20	178	0
4-Chloroaniline	0.109	0.109	-	0	20	142	0
Hexachlorobutadiene	0.174	0.172	-	1.1	20	146	0
p-Chloro-m-cresol	0.264	0.267	-	-1.1	20	138	0
2-Methylnaphthalene	0.655	0.592	-	9.6	20	129	0
1-Methylnaphthalene	0.205	0.198	-	3.4	20	139	0
Hexachlorocyclopentadiene	0.189	0.165	-	12.7	20	123	0
2,4,6-Trichlorophenol	0.187	0.201	-	-7.5	20	142	0
2,4,5-Trichlorophenol	0.211	0.218	-	-3.3	20	140	0
2-Fluorobiphenyl	0.752	0.693	-	7.8	20	132	0
2-Chloronaphthalene	0.645	0.588	-	8.8	20	130	0
2-Nitroaniline	0.202	0.208	-	-3	20	138	0
1,4-Dinitrobenzene	0.096	0.093	-	3.1	20	140	0
1,3-Dinitrobenzene	50	45.646	-	8.7	20	135	0
Dimethyl phthalate	0.742	0.703	-	5.3	20	131	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV103
 Lab File ID : ABN0718N
 Sample No : WG1804789-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/18/23 21:19
 Init. Calib. Date(s) : 05/15/23 05/16/23
 Init. Calib. Times : 21:20 13:32

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	0.991	0.996	-	-0.5	20	138	0
2,6-Dinitrotoluene	0.152	0.156	-	-2.6	20	134	0
1,2-Dinitrobenzene	0.067	0.066	-	1.5	20	131	0
IS1_Acenaphthene-d10	1	1	-	0	20	151	0
3-Nitroaniline	0.352	0.337	-	4.3	20	131	0
Acenaphthene	1.16	1.064	-	8.3	20	135	0
2,4-Dinitrophenol	50	62.143	-	-24.3*	20	195	0
Dibenzofuran	1.799	1.57	-	12.7	20	127	0
2,4-Dinitrotoluene	0.384	0.406	-	-5.7	20	138	0
4-Nitrophenol	0.229	0.265	-	-15.7	20	156	0
2,3,5,6-Tetrachlorophenol	0.313	0.335	-	-7	20	142	0
2,3,4,6-Tetrachlorophenol	0.324	0.336	-	-3.7	20	142	0
Diethyl phthalate	1.401	1.356	-	3.2	20	133	0
Fluorene	1.395	1.27	-	9	20	129	0
4-Chlorophenyl phenyl ethe	0.659	0.594	-	9.9	20	130	0
4-Nitroaniline	0.357	0.333	-	6.7	20	129	0
4,6-Dinitro-o-cresol	50	61.646	-	-23.3*	20	195	0
NDPA/DPA	1.192	1.065	-	10.7	20	125	0
Azobenzene	1.196	1.242	-	-3.8	20	144	0
2,4,6-Tribromophenol	0.213	0.221	-	-3.8	20	141	0
4-Bromophenyl phenyl ether	0.392	0.361	-	7.9	20	131	0
Hexachlorobenzene	0.479	0.438	-	8.6	20	133	0
Pentachlorophenol	50	44.94	-	10.1	20	138	0
IS1_Phenanthrene-d10	1	1	-	0	20	151	0
Phenanthrene	1.102	0.946	-	14.2	20	126	0
Anthracene	1.086	0.967	-	11	20	127	0
Carbazole	1.017	0.908	-	10.7	20	126	0
Di-n-butylphthalate	1.092	1.187	-	-8.7	20	139	0
Fluoranthene	1.157	1.079	-	6.7	20	131	0
Benzidine	0.729	0.693	-	4.9	20	123	0
Pyrene	1.244	1.141	-	8.3	20	130	0
4-Terphenyl-d14	0.931	0.807	-	13.3	20	123	0
Butyl benzyl phthalate	50	50.51	-	-1	20	149	0
IS1_Chrysene-d12	1	1	-	0	20	152	0
Benzo(a)anthracene	1.325	1.151	-	13.1	20	127	0
3,3'-Dichlorobenzidine	0.484	0.479	-	1	20	132	0
Chrysene	1.326	1.088	-	17.9	20	125	0
Bis(2-ethylhexyl)phthalate	50	47.655	-	4.7	20	142	0
Di-n-octylphthalate	50	48.145	-	3.7	20	146	0
Benzo(b)fluoranthene	1.286	1.119	-	13	20	123	0
Benzo(k)fluoranthene	1.32	1.134	-	14.1	20	121	0
Benzo(a)pyrene	1.109	1.004	-	9.5	20	124	0
IS1_Perylene-d12	1	1	-	0	20	147	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Instrument ID : SV103	Calibration Date : 07/18/23 21:19
Lab File ID : ABN0718N	Init. Calib. Date(s) : 05/15/23 05/16/23
Sample No : WG1804789-3	Init. Calib. Times : 21:20 13:32
Channel :	

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.853	0.854	-	-0.1	20	131	0
Dibenzo(a,h)anthracene	1.023	0.927	-	9.4	20	121	0
Benzo(ghi)perylene	1.042	0.936	-	10.2	20	122	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV103
Lab File ID : AP90718N
Sample No : WG1804789-4
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/18/23 21:42
Init. Calib. Date(s) : 05/15/23 05/16/23
Init. Calib. Times : 21:20 13:32

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
Benzaldehyde	0.86	0.848	-	1.4	20	80	0
Acetophenone	1.741	1.917	-	-10.1	20	87	0
m-Toluidine	1.485	1.559	-	-5	20	79	0
2-Chloroaniline	1.57	1.711	-	-9	20	85	0
IS2_Naphthalene-d8	1	1	-	0	20	79	0
a-Terpineol	0.231	0.272	-	-17.7	20	87	0
3-Chloroaniline	0.115	0.137	-	-19.1	20	91	0
2,6-Dichlorophenol	0.251	0.309	-	-23.1*	20	87	0
1-chloro-2-nitrobenzene	0.121	0.152	-	-25.6*	20	92	0
Caprolactam	0.131	0.147	-	-12.2	20	78	0
1,2,4,5-Tetrachlorobenzene	0.302	0.348	-	-15.2	20	89	0
Biphenyl	0.823	0.844	-	-2.6	20	78	0
IS2_Acenaphthene-d10	1	1	-	0	20	75	0
Dichloran	0.144	0.22	-	-52.8*	20	109	0
Pentachloronitrobenzene	0.135	0.201	-	-48.9*	20	102	0
IS2_Phenanthrene-d10	1	1	-	0	20	77	0
Diphenamid	0.416	0.564	-	-35.6*	20	93	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV124
 Lab File ID : ABN0719
 Sample No : WG1804924-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/19/23 07:10
 Init. Calib. Date(s) : 05/26/23 05/27/23
 Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	65	0
n-Nitrosodimethylamine	0.698	0.8	-	-14.6	20	70	0
Pyridine	50	55.863	-	-11.7	20	76	0
2-Fluorophenol	1.072	1.306	-	-21.8*	20	73	0
Aniline	1.81	2.164	-	-19.6	20	74	0
2-Chlorophenol	1.267	1.498	-	-18.2	20	72	0
Phenol-d6	1.4	1.642	-	-17.3	20	71	0
Phenol	1.514	1.682	-	-11.1	20	66	0
Bis(2-chloroethyl)ether	1.221	1.331	-	-9	20	68	0
1,3-Dichlorobenzene	1.466	1.598	-	-9	20	70	0
1,4-Dichlorobenzene	1.535	1.643	-	-7	20	69	0
1,2-Dichlorobenzene	1.47	1.578	-	-7.3	20	70	0
Benzyl alcohol	50	57.645	-	-15.3	20	73	0
Bis(2-chloroisopropyl)ethe	2.086	2.903	-	-39.2*	20	85	0
2-Methylphenol	1.186	1.316	-	-11	20	69	0
Hexachloroethane	0.595	0.678	-	-13.9	20	71	0
n-Nitrosodi-n-propylamine	0.943	1.137	-	-20.6*	20	72	0
3-Methylphenol/4-Methylphe	1.206	1.404	-	-16.4	20	71	0
Nitrobenzene-d5	1.366	1.619	-	-18.5	20	70	0
Nitrobenzene	1.392	1.607	-	-15.4	20	70	0
Isophorone	2.464	2.905	-	-17.9	20	70	0
2-Nitrophenol	0.618	0.843	-	-36.4*	20	79	0
2,4-Dimethylphenol	1.309	1.534	-	-17.2	20	70	0
Bis(2-chloroethoxy)methane	1.574	1.819	-	-15.6	20	70	0
2,4-Dichlorophenol	1.111	1.283	-	-15.5	20	70	0
1,2,4-Trichlorobenzene	1.309	1.37	-	-4.7	20	67	0
IS1_Naphthalene-d8	1	1	-	0	20	68	0
Naphthalene	1.011	1.073	-	-6.1	20	70	0
Benzoic Acid	50	49.401	-	1.2	20	70	0
4-Chloroaniline	0.125	0.149	-	-19.2	20	73	0
Hexachlorobutadiene	0.202	0.19	-	5.9	20	62	0
p-Chloro-m-cresol	0.273	0.331	-	-21.2*	20	74	0
2-Methylnaphthalene	0.655	0.701	-	-7	20	70	0
1-Methylnaphthalene	0.237	0.245	-	-3.4	20	68	0
Hexachlorocyclopentadiene	0.26	0.201	-	22.7*	20	50	0
2,4,6-Trichlorophenol	0.204	0.226	-	-10.8	20	67	0
2,4,5-Trichlorophenol	0.225	0.259	-	-15.1	20	70	0
2-Fluorobiphenyl	0.767	0.815	-	-6.3	20	70	0
2-Chloronaphthalene	0.66	0.736	-	-11.5	20	72	0
2-Nitroaniline	0.192	0.247	-	-28.6*	20	83	0
1,4-Dinitrobenzene	0.09	0.117	-	-30*	20	81	0
1,3-Dinitrobenzene	0.104	0.132	-	-26.9*	20	80	0
Dimethyl phthalate	0.776	0.892	-	-14.9	20	75	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV124
 Lab File ID : ABN0719
 Sample No : WG1804924-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/19/23 07:10
 Init. Calib. Date(s) : 05/26/23 05/27/23
 Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.034	1.202	-	-16.2	20	76	0
2,6-Dinitrotoluene	0.154	0.194	-	-26*	20	79	0
1,2-Dinitrobenzene	0.07	0.083	-	-18.6	20	76	0
IS1_Acenaphthene-d10	1	1	-	0	20	71	0
3-Nitroaniline	0.322	0.396	-	-23*	20	80	0
Acenaphthene	1.19	1.27	-	-6.7	20	73	0
2,4-Dinitrophenol	50	46.627	-	6.7	20	72	0
Dibenzofuran	1.851	1.926	-	-4.1	20	72	0
2,4-Dinitrotoluene	50	56.817	-	-13.6	20	80	0
4-Nitrophenol	50	54.707	-	-9.4	20	76	0
2,3,5,6-Tetrachlorophenol	0.364	0.359	-	1.4	20	63	0
2,3,4,6-Tetrachlorophenol	0.376	0.374	-	0.5	20	66	0
Diethyl phthalate	1.5	1.691	-	-12.7	20	73	0
Fluorene	1.531	1.53	-	0.1	20	69	0
4-Chlorophenyl phenyl ethe	0.74	0.726	-	1.9	20	66	0
4-Nitroaniline	50	56.262	-	-12.5	20	84	0
4,6-Dinitro-o-cresol	0.233	0.271	-	-16.3	20	79	0
NDPA/DPA	1.206	1.32	-	-9.5	20	74	0
Azobenzene	1.478	1.666	-	-12.7	20	73	0
2,4,6-Tribromophenol	0.241	0.247	-	-2.5	20	67	0
4-Bromophenyl phenyl ether	0.44	0.42	-	4.5	20	65	0
Hexachlorobenzene	0.539	0.51	-	5.4	20	68	0
Pentachlorophenol	50	35.906	-	28.2*	20	55	0
IS1_Phenanthrene-d10	1	1	-	0	20	72	0
Phenanthrene	1.061	1.126	-	-6.1	20	72	0
Anthracene	1.069	1.186	-	-10.9	20	74	0
Carbazole	0.937	1.078	-	-15	20	76	0
Di-n-butylphthalate	1.173	1.488	-	-26.9*	20	77	0
Fluoranthene	1.222	1.28	-	-4.7	20	73	0
Benzidine	50	62.629	-	-25.3*	20	85	0
Pyrene	1.276	1.335	-	-4.6	20	72	0
4-Terphenyl-d14	0.966	0.976	-	-1	20	70	0
Butyl benzyl phthalate	50	63.712	-	-27.4*	20	86	0
IS1_Chrysene-d12	1	1	-	0	20	72	0
Benzo(a)anthracene	1.35	1.464	-	-8.4	20	72	0
3,3'-Dichlorobenzidine	0.476	0.581	-	-22.1*	20	79	0
Chrysene	1.325	1.363	-	-2.9	20	71	0
Bis(2-ethylhexyl)phthalate	50	55.852	-	-11.7	20	77	0
Di-n-octylphthalate	50	59.345	-	-18.7	20	84	0
Benzo(b)fluoranthene	1.37	1.535	-	-12	20	75	0
Benzo(k)fluoranthene	1.33	1.477	-	-11.1	20	70	0
Benzo(a)pyrene	1.162	1.358	-	-16.9	20	73	0
IS1_Perylene-d12	1	1	-	0	20	71	0

* Value outside of QC limits.



**Calibration Verification Summary
Form 7
Semivolatiles**

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV124
 Lab File ID : ABN0719
 Sample No : WG1804924-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/19/23 07:10
 Init. Calib. Date(s) : 05/26/23 05/27/23
 Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.303	1.485	-	-14	20	71	0
Dibenzo(a,h)anthracene	1.159	1.288	-	-11.1	20	69	0
Benzo(ghi)perylene	1.144	1.273	-	-11.3	20	70	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Lab File ID : AP90719
Sample No : WG1804924-4
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/19/23 07:27
Init. Calib. Date(s) : 05/26/23 05/27/23
Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	65	0
Benzaldehyde	0.783	0.905	-	-15.6	20	70	0
Acetophenone	50	57.821	-	-15.6	20	75	0
m-Toluidine	1.501	1.765	-	-17.6	20	68	0
2-Chloroaniline	1.593	1.914	-	-20.2*	20	74	0
IS2_Naphthalene-d8	1	1	-	0	20	66	0
a-Terpineol	0.292	0.402	-	-37.7*	20	86	0
3-Chloroaniline	0.129	0.148	-	-14.7	20	70	0
2,6-Dichlorophenol	0.261	0.292	-	-11.9	20	70	0
1-chloro-2-nitrobenzene	0.134	0.154	-	-14.9	20	73	0
Caprolactam	50	67.039	-	-34.1*	20	96	0
1,2,4,5-Tetrachlorobenzene	0.361	0.329	-	8.9	20	60	0
Biphenyl	0.822	0.841	-	-2.3	20	65	0
IS2_Acenaphthene-d10	1	1	-	0	20	62	0
Dichloran	50	51.568	-	-3.1	20	72	0
Pentachloronitrobenzene	0.198	0.196	-	1	20	59	0
IS2_Phenanthrene-d10	1	1	-	0	20	53	0
Diphenamid	50	60.472	-	-20.9*	20	62	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Lab File ID : ADP0719
Sample No : WG1804924-5
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/19/23 07:44
Init. Calib. Date(s) : 05/26/23 05/27/23
Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	68	0
1,4-Dioxane	0.478	0.509	-	-6.5	20	80	0
n-Decane	50	68.428	-	-36.9*	20	99	0
IS3_Acenaphthene-d10	1	1	-	0	20	71	0
Atrazine	0.387	0.44	-	-13.7	20	77	0
IS3_Phenanthrene-d10	1	1	-	0	20	62	0
n-Octadecane	0.445	0.714	-	-60.4*	20	95	0
Parathion	50	76.788	-	-53.6*	20	108	0
3,3'-Dimethylbenzidine	50	58.752	-	-17.5	20	76	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV124
 Lab File ID : ABN0720NA
 Sample No : WG1805740-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/20/23 18:48
 Init. Calib. Date(s) : 05/26/23 05/27/23
 Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	107	0
n-Nitrosodimethylamine	0.698	0.765	-	-9.6	20	111	0
Pyridine	50	53.086	-	-6.2	20	119	0
2-Fluorophenol	1.072	1.267	-	-18.2	20	117	0
Aniline	1.81	2.062	-	-13.9	20	117	0
2-Chlorophenol	1.267	1.452	-	-14.6	20	115	0
Phenol-d6	1.4	1.554	-	-11	20	111	0
Phenol	1.514	1.809	-	-19.5	20	118	0
Bis(2-chloroethyl)ether	1.221	1.324	-	-8.4	20	112	0
1,3-Dichlorobenzene	1.466	1.588	-	-8.3	20	114	0
1,4-Dichlorobenzene	1.535	1.638	-	-6.7	20	115	0
1,2-Dichlorobenzene	1.47	1.593	-	-8.4	20	117	0
Benzyl alcohol	50	54.208	-	-8.4	20	114	0
Bis(2-chloroisopropyl)ethe	2.086	2.867	-	-37.4*	20	139	0
2-Methylphenol	1.186	1.266	-	-6.7	20	111	0
Hexachloroethane	0.595	0.659	-	-10.8	20	114	0
n-Nitrosodi-n-propylamine	0.943	1.08	-	-14.5	20	114	0
3-Methylphenol/4-Methylphe	1.206	1.366	-	-13.3	20	114	0
Nitrobenzene-d5	1.366	1.534	-	-12.3	20	110	0
Nitrobenzene	1.392	1.546	-	-11.1	20	112	0
Isophorone	2.464	2.97	-	-20.5*	20	119	0
2-Nitrophenol	0.618	0.796	-	-28.8*	20	124	0
2,4-Dimethylphenol	1.309	1.457	-	-11.3	20	110	0
Bis(2-chloroethoxy)methane	1.574	1.814	-	-15.2	20	115	0
2,4-Dichlorophenol	1.111	1.283	-	-15.5	20	116	0
1,2,4-Trichlorobenzene	1.309	1.42	-	-8.5	20	116	0
IS1_Naphthalene-d8	1	1	-	0	20	113	0
Naphthalene	1.011	1.076	-	-6.4	20	117	0
Benzoic Acid	50	50.619	-	-1.2	20	120	0
4-Chloroaniline	0.125	0.147	-	-17.6	20	121	0
Hexachlorobutadiene	0.202	0.201	-	0.5	20	109	0
p-Chloro-m-cresol	0.273	0.31	-	-13.6	20	117	0
2-Methylnaphthalene	0.655	0.698	-	-6.6	20	116	-.11
1-Methylnaphthalene	0.237	0.242	-	-2.1	20	112	0
Hexachlorocyclopentadiene	0.26	0.213	-	18.1	20	88	0
2,4,6-Trichlorophenol	0.204	0.237	-	-16.2	20	116	0
2,4,5-Trichlorophenol	0.225	0.259	-	-15.1	20	117	0
2-Fluorobiphenyl	0.767	0.838	-	-9.3	20	120	0
2-Chloronaphthalene	0.66	0.718	-	-8.8	20	117	0
2-Nitroaniline	0.192	0.242	-	-26*	20	136	0
1,4-Dinitrobenzene	0.09	0.112	-	-24.4*	20	129	0
1,3-Dinitrobenzene	0.104	0.126	-	-21.2*	20	129	0
Dimethyl phthalate	0.776	0.89	-	-14.7	20	125	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV124
 Lab File ID : ABN0720NA
 Sample No : WG1805740-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/20/23 18:48
 Init. Calib. Date(s) : 05/26/23 05/27/23
 Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.034	1.228	-	-18.8	20	129	0
2,6-Dinitrotoluene	0.154	0.189	-	-22.7*	20	128	0
1,2-Dinitrobenzene	0.07	0.081	-	-15.7	20	123	0
IS1_Acenaphthene-d10	1	1	-	0	20	121	0
3-Nitroaniline	0.322	0.375	-	-16.5	20	130	0
Acenaphthene	1.19	1.223	-	-2.8	20	120	0
2,4-Dinitrophenol	50	45.472	-	9.1	20	119	0
Dibenzofuran	1.851	1.883	-	-1.7	20	119	0
2,4-Dinitrotoluene	50	56.855	-	-13.7	20	137	0
4-Nitrophenol	50	50.928	-	-1.9	20	119	0
2,3,5,6-Tetrachlorophenol	0.364	0.36	-	1.1	20	108	0
2,3,4,6-Tetrachlorophenol	0.376	0.368	-	2.1	20	110	0
Diethyl phthalate	1.5	1.696	-	-13.1	20	125	0
Fluorene	1.531	1.544	-	-0.8	20	118	0
4-Chlorophenyl phenyl ethe	0.74	0.724	-	2.2	20	112	0
4-Nitroaniline	50	52.994	-	-6	20	134	0
4,6-Dinitro-o-cresol	0.233	0.269	-	-15.5	20	133	0
NDPA/DPA	1.206	1.272	-	-5.5	20	122	0
Azobenzene	1.478	1.6	-	-8.3	20	120	0
2,4,6-Tribromophenol	0.241	0.253	-	-5	20	117	0
4-Bromophenyl phenyl ether	0.44	0.425	-	3.4	20	113	0
Hexachlorobenzene	0.539	0.533	-	1.1	20	120	0
Pentachlorophenol	50	40.2	-	19.6	20	105	0
IS1_Phenanthrene-d10	1	1	-	0	20	121	0
Phenanthrene	1.061	1.114	-	-5	20	121	0
Anthracene	1.069	1.165	-	-9	20	123	0
Carbazole	0.937	1.069	-	-14.1	20	126	0
Di-n-butylphthalate	1.173	1.5	-	-27.9*	20	131	0
Fluoranthene	1.222	1.278	-	-4.6	20	123	0
Benzidine	50	60.137	-	-20.3*	20	137	0
Pyrene	1.276	1.352	-	-6	20	124	0
4-Terphenyl-d14	0.966	0.991	-	-2.6	20	119	0
Butyl benzyl phthalate	50	63.464	-	-26.9*	20	145	0
IS1_Chrysene-d12	1	1	-	0	20	121	0
Benzo(a)anthracene	1.35	1.436	-	-6.4	20	120	0
3,3'-Dichlorobenzidine	0.476	0.572	-	-20.2*	20	131	0
Chrysene	1.325	1.319	-	0.5	20	116	0
Bis(2-ethylhexyl)phthalate	50	57.768	-	-15.5	20	136	0
Di-n-octylphthalate	50	60.407	-	-20.8*	20	145	0
Benzo(b)fluoranthene	1.37	1.424	-	-3.9	20	117	0
Benzo(k)fluoranthene	1.33	1.464	-	-10.1	20	117	0
Benzo(a)pyrene	1.162	1.281	-	-10.2	20	116	0
IS1_Perylene-d12	1	1	-	0	20	116	0

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Lab File ID : ABN0720NA
Sample No : WG1805740-3
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/20/23 18:48
Init. Calib. Date(s) : 05/26/23 05/27/23
Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.303	1.413	-	-8.4	20	110	0
Dibenzo(a,h)anthracene	1.159	1.216	-	-4.9	20	106	0
Benzo(ghi)perylene	1.144	1.185	-	-3.6	20	107	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Lab File ID : AP90720NA
Sample No : WG1805740-4
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/20/23 19:05
Init. Calib. Date(s) : 05/26/23 05/27/23
Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	158	0
Benzaldehyde	0.783	0.856	-	-9.3	20	162	0
Acetophenone	50	55.523	-	-11	20	175	0
m-Toluidine	1.501	1.706	-	-13.7	20	160	0
2-Chloroaniline	1.593	1.836	-	-15.3	20	172	0
IS2_Naphthalene-d8	1	1	-	0	20	161	0
a-Terpineol	0.292	0.386	-	-32.2*	20	202	0
3-Chloroaniline	0.129	0.146	-	-13.2	20	169	0
2,6-Dichlorophenol	0.261	0.297	-	-13.8	20	175	0
1-chloro-2-nitrobenzene	0.134	0.146	-	-9	20	168	0
Caprolactam	50	68.479	-	-37*	20	240	0
1,2,4,5-Tetrachlorobenzene	0.361	0.335	-	7.2	20	150	0
Biphenyl	0.822	0.854	-	-3.9	20	163	0
IS2_Acenaphthene-d10	1	1	-	0	20	155	0
Dichloran	50	55.685	-	-11.4	20	196	0
Pentachloronitrobenzene	0.198	0.211	-	-6.6	20	158	0
IS2_Phenanthrene-d10	1	1	-	0	20	146	0
Diphenamid	50	61.884	-	-23.8*	20	175	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Lab File ID : ADP0720NA
Sample No : WG1805740-5
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/20/23 19:22
Init. Calib. Date(s) : 05/26/23 05/27/23
Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	113	0
1,4-Dioxane	0.478	0.502	-	-5	20	131	0
n-Decane	50	68.051	-	-36.1*	20	163	0
IS3_Acenaphthene-d10	1	1	-	0	20	120	0
Atrazine	0.387	0.486	-	-25.6*	20	145	0
IS3_Phenanthrene-d10	1	1	-	0	20	110	0
n-Octadecane	0.445	0.74	-	-66.3*	20	174	0
Parathion	50	77.809	-	-55.6*	20	194	0
3,3'-Dimethylbenzidine	50	60.313	-	-20.6*	20	139	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\230719\
 Data File : ABN0719.D
 Acq On : 19 Jul 2023 7:10 am
 Operator : SV124:ljpg
 Sample : WG1804924-3,32,,ABN 10133 gmr0708B
 Misc : WG1804924,,ical20053
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 19 09:46:26 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:46:12 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	IS1_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	65	0.00
2 t	n-Nitrosodimethylamine	0.698	0.800	-14.6	70	0.00
3 t	Pyridine	* 50.000	55.863	-11.7	76	0.00
4 S	2-Fluorophenol	1.072	1.306	-21.8#	73	0.00
5 T	Aniline	1.810	2.164	-19.6	74	0.00
6 t	2-Chlorophenol	1.267	1.498	-18.2	72	0.00
7 S	Phenol-d6	1.400	1.642	-17.3	71	0.00
8 T	Phenol	1.514	1.682	-11.1	66	0.00
9 T	Bis(2-chloroethyl)ether	1.221	1.331	-9.0	68	0.00
10 T	1,3-Dichlorobenzene	1.466	1.598	-9.0	70	0.00
11 T	1,4-Dichlorobenzene	1.535	1.643	-7.0	69	0.00
12 T	1,2-Dichlorobenzene	1.470	1.578	-7.3	70	0.00
13 t	Benzyl alcohol	* 50.000	57.645	-15.3	73	0.00
14 T	Bis(2-chloroisopropyl)ether	2.086	2.903	-39.2#	85	0.00
15 T	2-Methylphenol	1.186	1.316	-11.0	69	0.00
16 T	Hexachloroethane	0.595	0.678	-13.9	71	0.00
17 T	n-Nitrosodi-n-propylamine	0.943	1.137	-20.6#	72	0.00
18 T	3-Methylphenol/4-Methylphen	1.206	1.404	-16.4	71	0.00
19 S	Nitrobenzene-d5	1.366	1.619	-18.5	70	0.00
20 T	Nitrobenzene	1.392	1.607	-15.4	70	0.00
21 T	Isophorone	2.464	2.905	-17.9	70	0.00
22 T	2-Nitrophenol	0.618	0.843	-36.4#	79	0.00
23 T	2,4-Dimethylphenol	1.309	1.534	-17.2	70	0.00
24 T	Bis(2-chloroethoxy)methane	1.574	1.819	-15.6	70	0.00
25 T	2,4-Dichlorophenol	1.111	1.283	-15.5	70	0.00
26 T	1,2,4-Trichlorobenzene	1.309	1.370	-4.7	67	0.00
35 I	IS1_Naphthalene-d8	1.000	1.000	0.0	68	0.00
36 T	Naphthalene	1.011	1.073	-6.1	70	0.00
37 T	Benzoic Acid	* 50.000	49.401	1.2	70	0.00
38 T	4-Chloroaniline	0.125	0.149	-19.2	73	0.00
39 T	Hexachlorobutadiene	0.202	0.190	5.9	62	0.00
40 T	p-Chloro-m-cresol	0.273	0.331	-21.2#	74	0.00
41 T	2-Methylnaphthalene	0.655	0.701	-7.0	70	0.00
42 T	1-Methylnaphthalene	0.237	0.245	-3.4	68	0.00
43 T	Hexachlorocyclopentadiene	0.260	0.201	22.7#	50	0.00
44 T	2,4,6-Trichlorophenol	0.204	0.226	-10.8	67	0.00
45 T	2,4,5-Trichlorophenol	0.225	0.259	-15.1	70	0.00
46 S	2-Fluorobiphenyl	0.767	0.815	-6.3	70	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\230719\
 Data File : ABN0719.D
 Acq On : 19 Jul 2023 7:10 am
 Operator : SV124:ljpg
 Sample : WG1804924-3,32,,ABN 10133 gmr0708B
 Misc : WG1804924,,ical20053
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 19 09:46:26 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:46:12 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47 T 2-Chloronaphthalene	0.660	0.736	-11.5	72	0.00
48 T 2-Nitroaniline	0.192	0.247	-28.6#	83	0.00
49 T 1,4-Dinitrobenzene	0.090	0.117	-30.0#	81	0.00
50 T 1,3-Dinitrobenzene	0.104	0.132	-26.9#	80	0.00
51 T Dimethyl phthalate	0.776	0.892	-14.9	75	0.00
52 T Acenaphthylene	1.034	1.202	-16.2	76	0.00
53 T 2,6-Dinitrotoluene	0.154	0.194	-26.0#	79	0.00
54 T 1,2-Dinitrobenzene	0.070	0.083	-18.6	76	0.00
63 I IS1_Acenaphthene-d10	1.000	1.000	0.0	71	0.00
64 T 3-Nitroaniline	0.322	0.396	-23.0#	80	0.00
65 T Acenaphthene	1.190	1.270	-6.7	73	0.00
66 T 2,4-Dinitrophenol	* 50.000	46.627	6.7	72	0.00
67 T Dibenzofuran	1.851	1.926	-4.1	72	0.00
68 T 2,4-Dinitrotoluene	* 50.000	56.817	-13.6	80	0.00
69 T 4-Nitrophenol	* 50.000	54.707	-9.4	76	0.00
70 T 2,3,5,6-Tetrachlorophenol	0.364	0.359	1.4	63	0.00
71 T 2,3,4,6-Tetrachlorophenol	0.376	0.374	0.5	66	0.00
72 T Diethyl phthalate	1.500	1.691	-12.7	73	0.00
73 T Fluorene	1.531	1.530	0.1	69	0.00
74 T 4-Chlorophenyl phenyl ether	0.740	0.726	1.9	66	0.00
75 T 4-Nitroaniline	* 50.000	56.262	-12.5	84	0.00
76 T 4,6-Dinitro-o-cresol	0.233	0.271	-16.3	79	0.00
77 T NDPA/DPA	1.206	1.320	-9.5	74	0.00
78 T Azobenzene	1.478	1.666	-12.7	73	0.00
79 S 2,4,6-Tribromophenol	0.241	0.247	-2.5	67	0.00
80 T 4-Bromophenyl phenyl ether	0.440	0.420	4.5	65	0.00
81 T Hexachlorobenzene	0.539	0.510	5.4	68	0.00
82 T Pentachlorophenol	* 50.000	35.906	28.2#	55	0.00
88 I IS1_Phenanthrene-d10	1.000	1.000	0.0	72	0.00
89 T Phenanthrene	1.061	1.126	-6.1	72	0.00
90 T Anthracene	1.069	1.186	-10.9	74	0.00
91 T Carbazole	0.937	1.078	-15.0	76	0.00
92 T Di-n-butylphthalate	1.173	1.488	-26.9#	77	0.00
93 T Fluoranthene	1.222	1.280	-4.7	73	0.00
94 T Benzidine	* 50.000	62.629	-25.3#	85	0.00
95 T Pyrene	1.276	1.335	-4.6	72	0.00
96 S 4-Terphenyl-d14	0.966	0.976	-1.0	70	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\230719\
 Data File : ABN0719.D
 Acq On : 19 Jul 2023 7:10 am
 Operator : SV124:ljpg
 Sample : WG1804924-3,32,,ABN 10133 gmr0708B
 Misc : WG1804924,,ical20053
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 19 09:46:26 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:46:12 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97 T	Butyl benzyl phthalate	* 50.000	63.712	-27.4#	86	0.00
104 I	IS1_Chrysene-d12	1.000	1.000	0.0	72	0.00
105 T	Benzo(a)anthracene	1.350	1.464	-8.4	72	0.00
106 T	3,3'-Dichlorobenzidine	0.476	0.581	-22.1#	79	0.00
107 T	Chrysene	1.325	1.363	-2.9	71	0.00
108 T	Bis(2-ethylhexyl)phthalate	* 50.000	55.852	-11.7	77	0.00
109 T	Di-n-octylphthalate	* 50.000	59.345	-18.7	84	0.00
110 T	Benzo(b)fluoranthene	1.370	1.535	-12.0	75	0.00
111 T	Benzo(k)fluoranthene	1.330	1.477	-11.1	70	0.00
112 T	Benzo(a)pyrene	1.162	1.358	-16.9	73	0.00
113 I	IS1_Perylene-d12	1.000	1.000	0.0	71	0.00
114 T	Indeno(1,2,3-cd)pyrene	1.303	1.485	-14.0	71	0.00
115 T	Dibenzo(a,h)anthracene	1.159	1.288	-11.1	69	0.00
116 T	Benzo(ghi)perylene	1.144	1.273	-11.3	70	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
 Data File : ABN0719.D
 Acq On : 19 Jul 2023 7:10 am
 Operator : SV124:ljpg
 Sample : WG1804924-3,32,,ABN 10133 gmr0708B
 Misc : WG1804924,,ical20053
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 19 09:46:26 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:46:12 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.365	152	83649	40.000	ug/ml	0.00
35) IS1_Naphthalene-d8	4.151	136	345862	40.000	ug/ml	# 0.00
63) IS1_Acenaphthene-d10	5.279	164	189721	40.000	ug/ml	0.00
88) IS1_Phenanthrene-d10	6.240	188	393875	40.000	ug/ml	0.00
104) IS1_Chrysene-d12	8.120	240	362434	40.000	ug/ml	0.00
113) IS1_Perylene-d12	9.214	264	440891	40.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.619	112	136542	60.930	ug/ml	0.00
Spiked Amount	50.000	Range 15 - 110	Recovery =	121.86%#		
7) Phenol-d6	3.147	99	171724	58.666	ug/ml	0.00
Spiked Amount	50.000	Range 15 - 110	Recovery =	117.33%#		
19) Nitrobenzene-d5	3.704	82	169301	59.255	ug/ml	0.00
Spiked Amount	25.000	Range 30 - 130	Recovery =	237.02%#		
46) 2-Fluorobiphenyl	4.844	172	352485	53.121	ug/ml	0.00
Spiked Amount	25.000	Range 30 - 130	Recovery =	212.48%#		
79) 2,4,6-Tribromophenol	5.792	330	58490	51.068	ug/ml	0.00
Spiked Amount	50.000	Range 15 - 110	Recovery =	102.14%		
96) 4-Terphenyl-d14	7.324	244	480669	50.515	ug/ml	0.00
Spiked Amount	25.000	Range 30 - 130	Recovery =	202.06%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.910	74	83684	57.290	ug/ml#	80
3) Pyridine	1.935	79	150603	55.863	ug/ml	95
5) Aniline	3.169	93	226259	59.779	ug/ml	90
6) 2-Chlorophenol	3.244	128	156589	59.119	ug/ml	97
8) Phenol	3.153	94	175880M6	55.553	ug/ml	
9) Bis(2-chloroethyl)ether	3.206	93	139161	54.484	ug/ml	96
10) 1,3-Dichlorobenzene	3.334	146	167107	54.503	ug/ml	98
11) 1,4-Dichlorobenzene	3.377	146	171802	53.507	ug/ml	97
12) 1,2-Dichlorobenzene	3.470	146	165045	53.674	ug/ml	97
13) Benzyl alcohol	3.449	79	126175	57.645	ug/ml	98
14) Bis(2-chloroisopropyl)...	3.529	45	303531	69.566	ug/ml	94
15) 2-Methylphenol	3.517	108	137571	55.451	ug/ml	98
16) Hexachloroethane	3.676	117	70899	56.991	ug/ml	90
17) n-Nitrosodi-n-propylamine	3.610	70	118880	60.286	ug/ml	97
18) 3-Methylphenol/4-Methy...	3.613	108	146757	58.198	ug/ml	99
20) Nitrobenzene	3.716	77	168039	57.717	ug/ml	99
21) Isophorone	3.865	82	303791	58.961	ug/ml	99
22) 2-Nitrophenol	3.915	139	88188	68.198	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
 Data File : ABN0719.D
 Acq On : 19 Jul 2023 7:10 am
 Operator : SV124:ljj
 Sample : WG1804924-3,32,,ABN 10133 gmr0708B
 Misc : WG1804924,,ical20053
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 19 09:46:26 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:46:12 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	3.943	107	160348	58.556	ug/ml	99
24) Bis(2-chloroethoxy)met...	3.996	93	190185	57.782	ug/ml	100
25) 2,4-Dichlorophenol	4.067	162	134122	57.733	ug/ml	98
26) 1,2,4-Trichlorobenzene	4.120	180	143297	52.349	ug/ml	97
36) Naphthalene	4.167	128	463862	53.038	ug/ml	100
37) Benzoic Acid	4.002	105	105306	49.401	ug/ml	98
38) 4-Chloroaniline	4.204	65	64225	59.246	ug/ml	93
39) Hexachlorobutadiene	4.247	225	82350	47.230	ug/ml	99
40) p-Chloro-m-cresol	4.512	107	142911	60.485	ug/ml	96
41) 2-Methylnaphthalene	4.608	142	303155	53.533	ug/ml	96
42) 1-Methylnaphthalene	4.670	115	105793	51.527	ug/ml	90
43) Hexachlorocyclopentadiene	4.714	237	86855	38.696	ug/ml	96
44) 2,4,6-Trichlorophenol	4.791	196	97866	55.502	ug/ml	96
45) 2,4,5-Trichlorophenol	4.816	196	112145	57.772	ug/ml	97
47) 2-Chloronaphthalene	4.919	162	318346	55.754	ug/ml	96
48) 2-Nitroaniline	4.987	138	106835	64.511	ug/ml	96
49) 1,4-Dinitrobenzene	5.074	168	50560	65.305	ug/ml	86
50) 1,3-Dinitrobenzene	5.127	168	56857	63.246	ug/ml	93
51) Dimethyl phthalate	5.105	163	385732	57.484	ug/ml#	99
52) Acenaphthylene	5.186	152	519554	58.113	ug/ml	99
53) 2,6-Dinitrotoluene	5.143	165	83966	62.980	ug/ml#	86
54) 1,2-Dinitrobenzene	5.180	168	35920	59.479	ug/ml	96
64) 3-Nitroaniline	5.254	138	93802	61.390	ug/ml#	95
65) Acenaphthene	5.301	154	301223	53.385	ug/ml	93
66) 2,4-Dinitrophenol	5.326	184	47720	46.627	ug/ml	90
67) Dibenzofuran	5.413	168	456645	52.000	ug/ml	95
68) 2,4-Dinitrotoluene	5.407	165	116568	56.817	ug/ml	95
69) 4-Nitrophenol	5.366	65	74240	54.707	ug/ml	96
70) 2,3,5,6-Tetrachlorophenol	5.466	232	85092	49.283	ug/ml	97
71) 2,3,4,6-Tetrachlorophenol	5.494	232	88698	49.753	ug/ml	98
72) Diethyl phthalate	5.559	149	400987	56.359	ug/ml	100
73) Fluorene	5.634	166	362897	49.977	ug/ml	96
74) 4-Chlorophenyl phenyl ...	5.631	204	172238	49.062	ug/ml	91
75) 4-Nitroaniline	5.649	138	95128	56.262	ug/ml	84
76) 4,6-Dinitro-o-cresol	5.674	198	64252	58.025	ug/ml	92
77) NDPA/DPA	5.708	169	313017	54.706	ug/ml	98
78) Azobenzene	5.733	77	395161	56.355	ug/ml	98
80) 4-Bromophenyl phenyl e...	5.948	248	99676	47.711	ug/ml	90
81) Hexachlorobenzene	5.997	284	121030	47.303	ug/ml	95
82) Pentachlorophenol	6.125	266	56363	35.906	ug/ml	97
89) Phenanthrene	6.255	178	554151	53.058	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
 Data File : ABN0719.D
 Acq On : 19 Jul 2023 7:10 am
 Operator : SV124:ljpg
 Sample : WG1804924-3,32,,ABN 10133 gmr0708B
 Misc : WG1804924,,ical20053
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 19 09:46:26 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:46:12 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Anthracene	6.289	178	583843	55.464	ug/ml	99
91) Carbazole	6.398	167	530653	57.520	ug/ml	99
92) Di-n-butylphthalate	6.625	149	732487	63.419	ug/ml	99
93) Fluoranthene	7.054	202	630078	52.377	ug/ml	98
94) Benzidine	7.147	184	451958	62.629	ug/ml	98
95) Pyrene	7.216	202	657222	52.316	ug/ml	99
97) Butyl benzyl phthalate	7.685	149	346349	63.712	ug/ml	95
105) Benzo(a)anthracene	8.111	228	663372	54.232	ug/ml	98
106) 3,3'-Dichlorobenzidine	8.092	252	263169	60.987	ug/ml	98
107) Chrysene	8.142	228	617613	51.437	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	8.133	149	545908	55.852	ug/ml#	96
109) Di-n-octylphthalate	8.633	149	919882	59.345	ug/ml	98
110) Benzo(b)fluoranthene	8.934	252	695364	56.004	ug/ml	99
111) Benzo(k)fluoranthene	8.953	252	668987	55.513	ug/ml	98
112) Benzo(a)pyrene	9.174	252	615387	58.428	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	9.938	276	818264	56.974	ug/mL	93
115) Dibenzo(a,h)anthracene	9.945	278	710107	55.574	ug/ml	96
116) Benzo(ghi)perylene	10.119	276	701565	55.624	ug/ml#	92

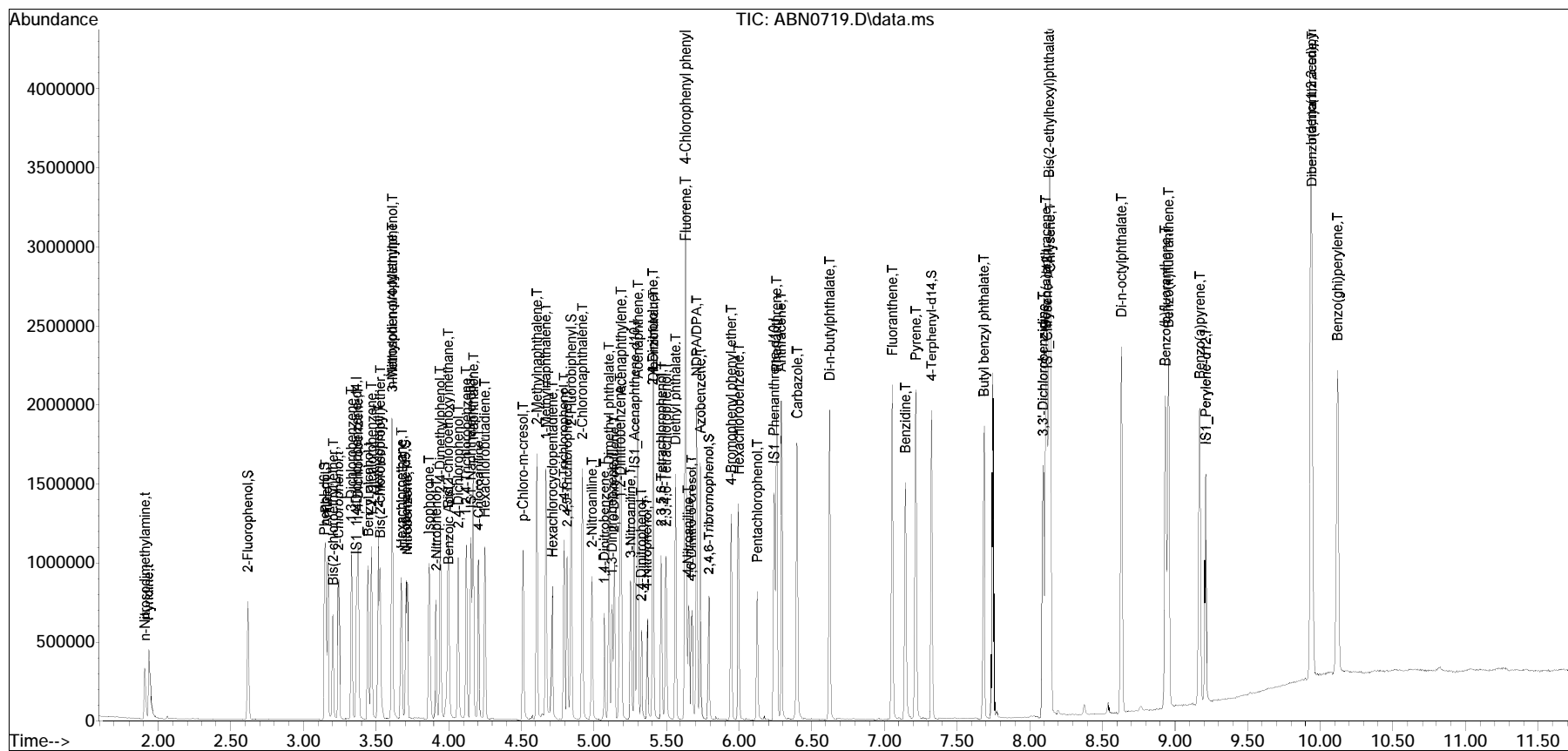
(#) = qualifier out of range (m) = manual integration (+) = signals summed

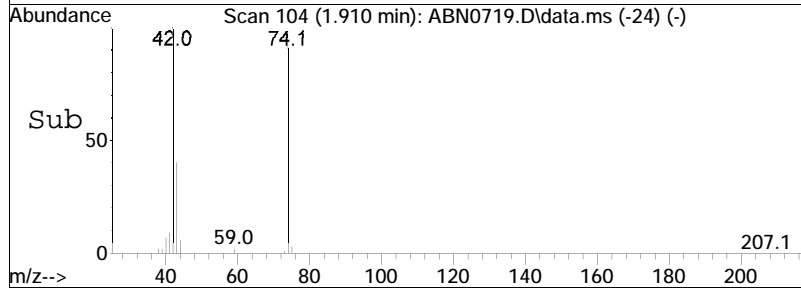
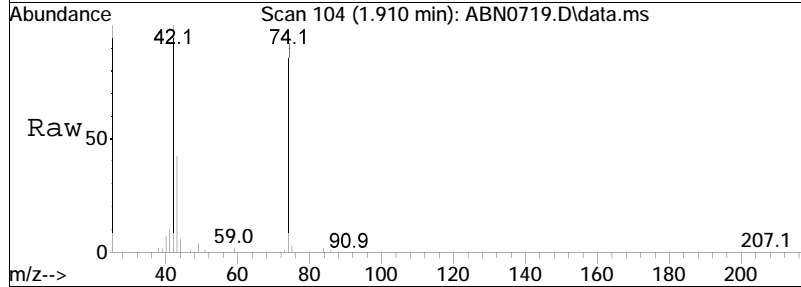
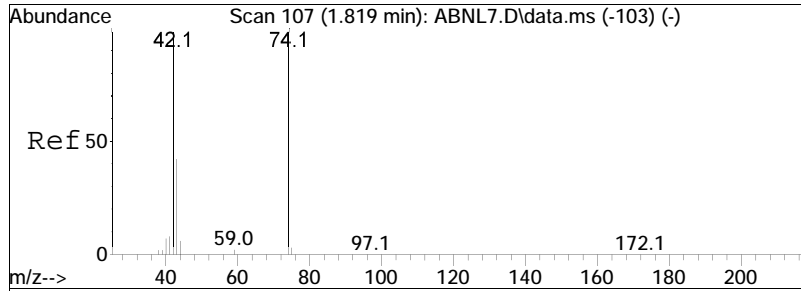
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
 Data File : ABN0719.D
 Acq On : 19 Jul 2023 7:10 am
 Operator : SV124:ljj
 Sample : WG1804924-3,32,,ABN 10133 gmr0708B
 Misc : WG1804924,,ical20053
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 19 09:46:26 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:46:12 2023
 Response via : Initial Calibration

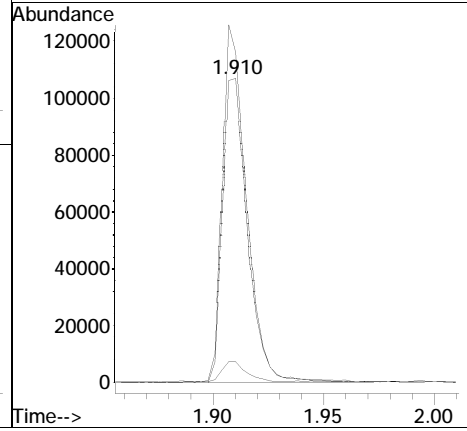
Sub List : ABNical - ABN ical sublist

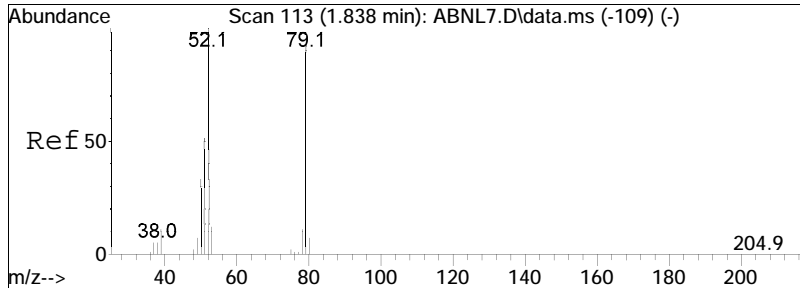




#2
 n-Nitrosodimethylamine
 Concen: 57.29 ug/ml
 RT: 1.910 min Scan# 104
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

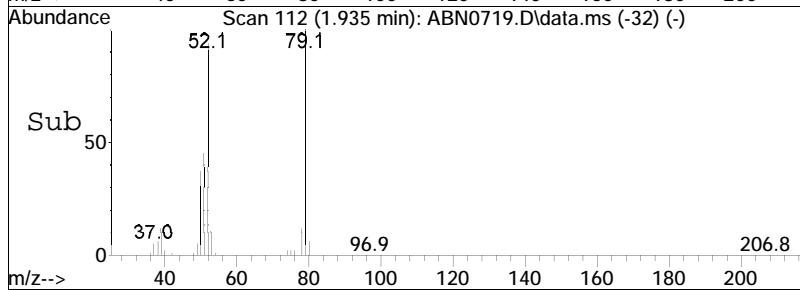
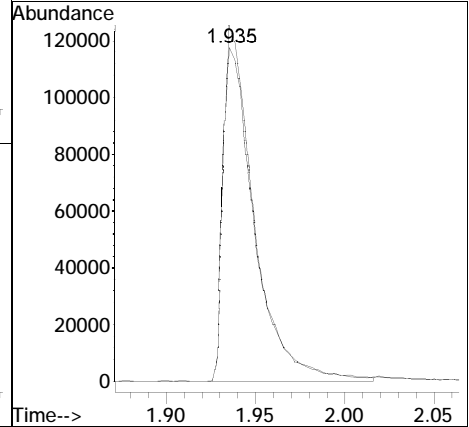
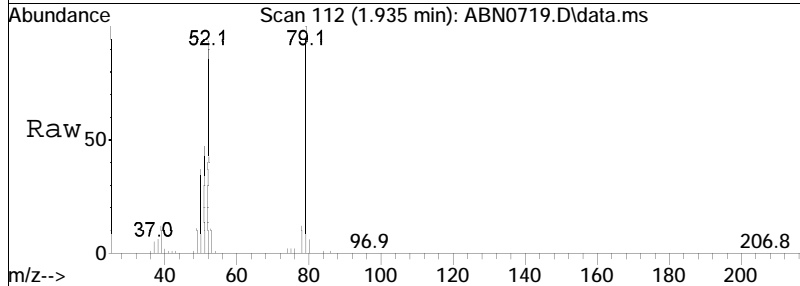
Tgt Ion	74	Ratio	100	Resp	83684
Ion	74	Ratio	Lower	Upper	
74	100				
42	113.7	74.5	111.7#		
44	6.4	5.5	8.3		

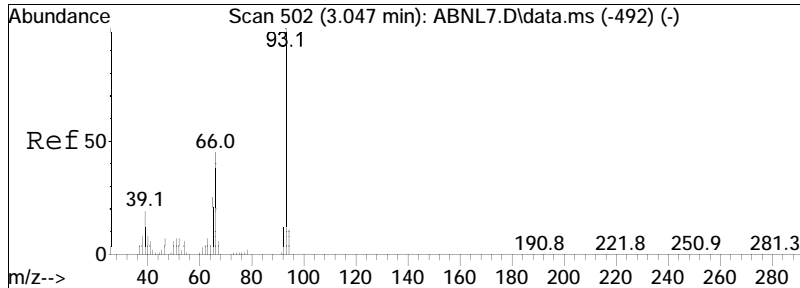




#3
 Pyridine
 Concen: 55.86 ug/ml
 RT: 1.935 min Scan# 112
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

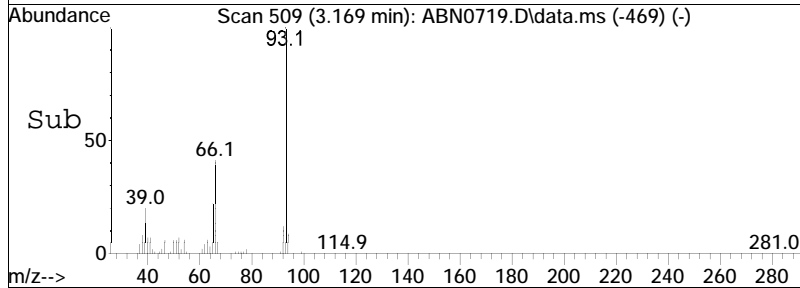
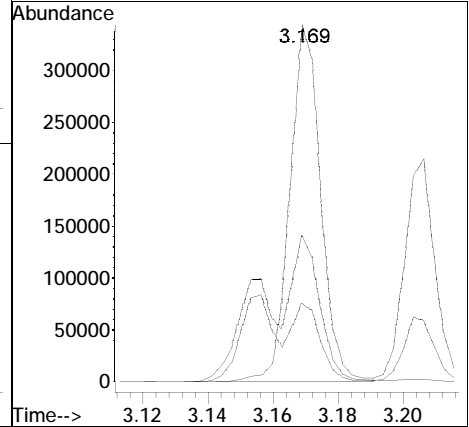
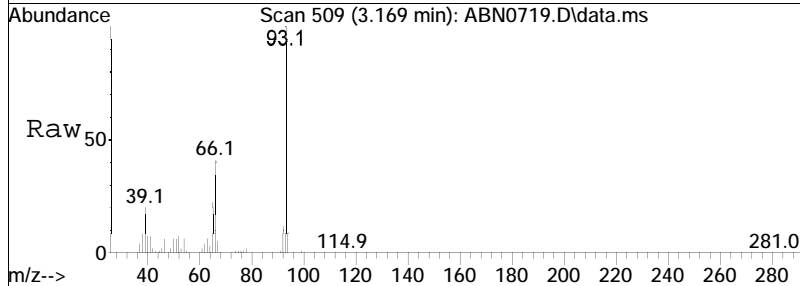
Tgt Ion: 79 Resp: 150603
 Ion Ratio Lower Upper
 79 100
 52 96.2 72.9 109.3

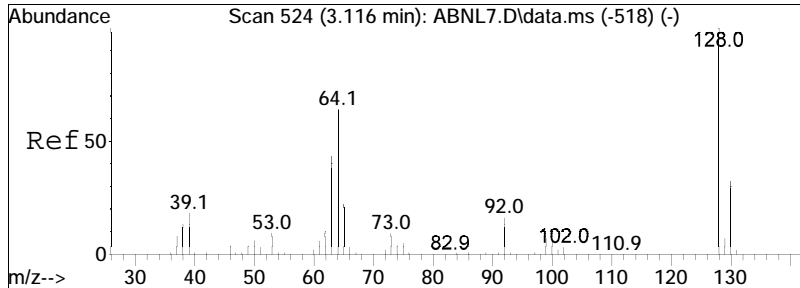




#5
 Aniline
 Concen: 59.78 ug/ml
 RT: 3.169 min Scan# 509
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

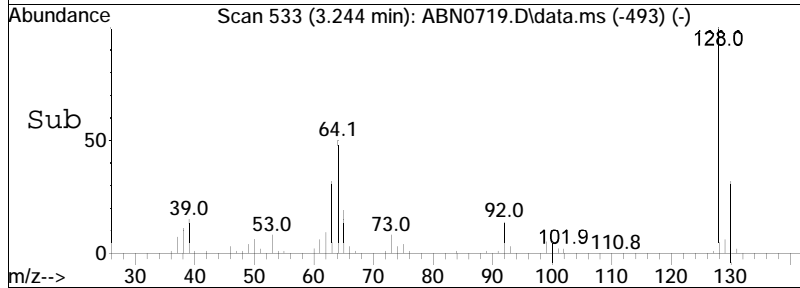
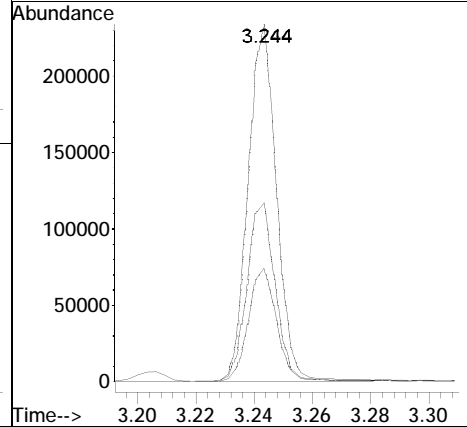
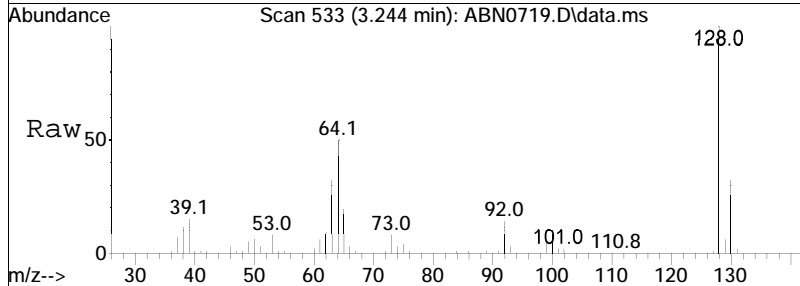
Tgt Ion:	93	Resp:	226259
Ion Ratio	100	Lower	Upper
66	37.5	37.3	55.9
65	20.6	16.7	25.1

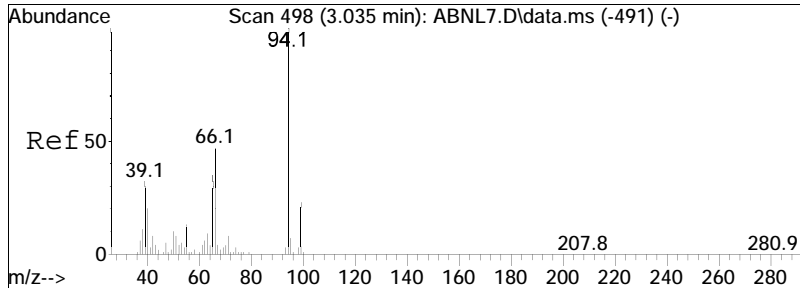




#6
 2-Chlorophenol
 Concen: 59.12 ug/ml
 RT: 3.244 min Scan# 533
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

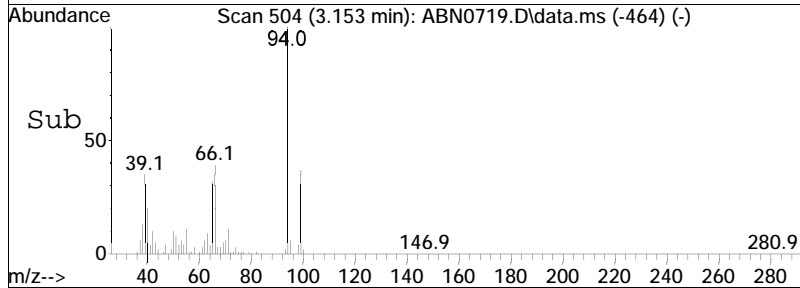
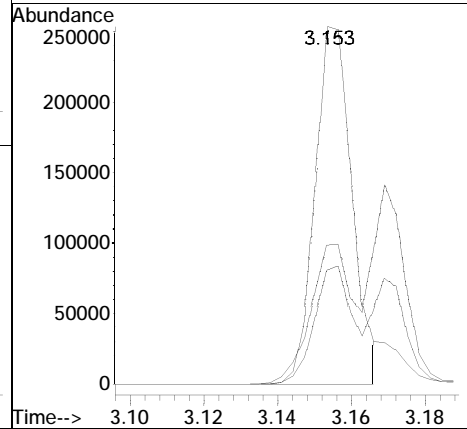
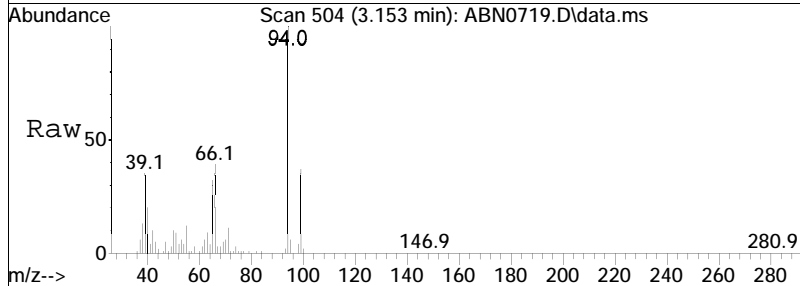
Tgt Ion	Ratio	Lower	Upper
128	100		
64	50.0	42.7	64.1
130	31.6	25.8	38.6

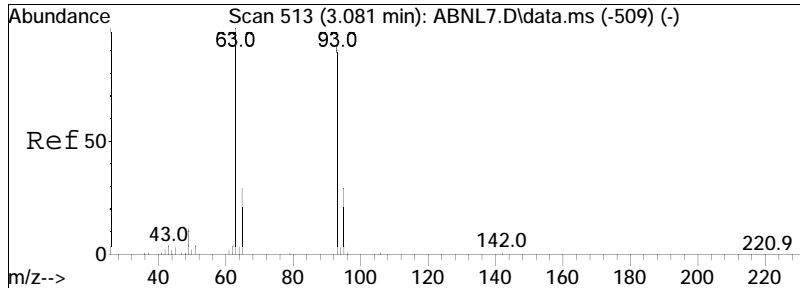




#8
 Phenol
 Concen: 55.55 ug/ml M6
 RT: 3.153 min Scan# 504
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

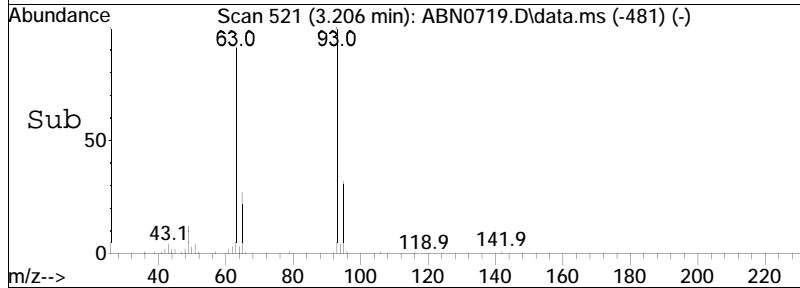
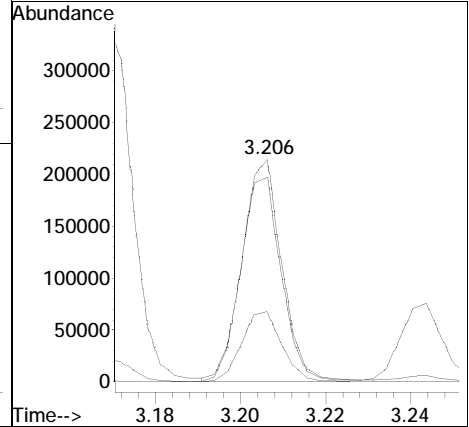
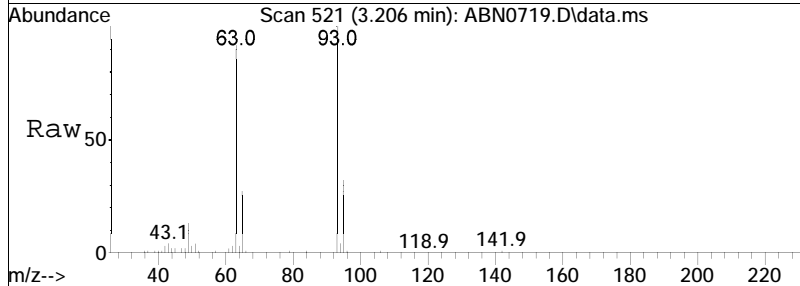
Tgt Ion	Resp	Lower	Upper
94	175880		
65	34.5	20.5	30.7#
66	45.7	0.0	0.0#

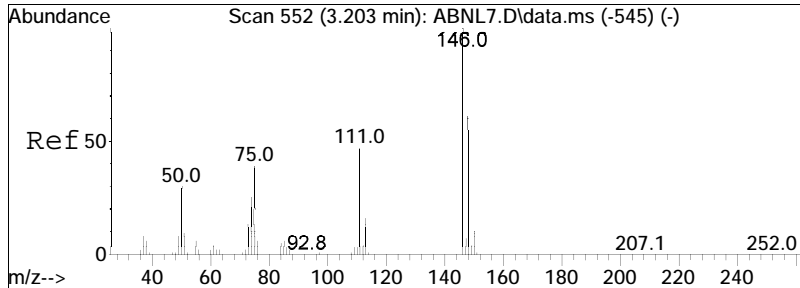




#9
 Bis(2-chloroethyl)ether
 Concen: 54.48 ug/ml
 RT: 3.206 min Scan# 521
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

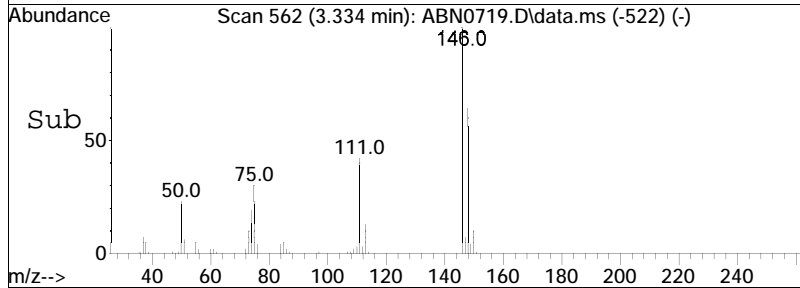
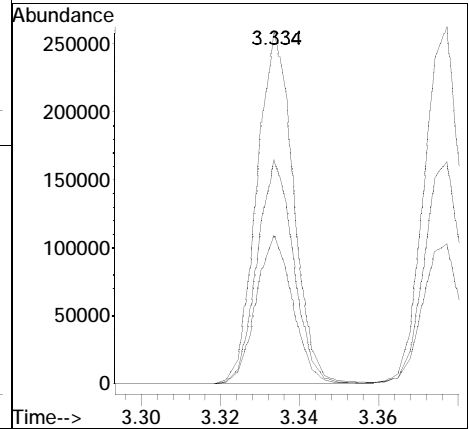
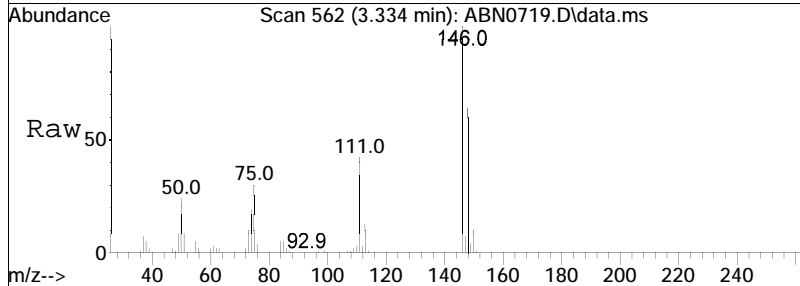
Tgt Ion:	93	Resp:	139161
Ion Ratio	Lower	Upper	
93	100		
63	93.6	70.4	105.6
95	32.2	25.8	38.6

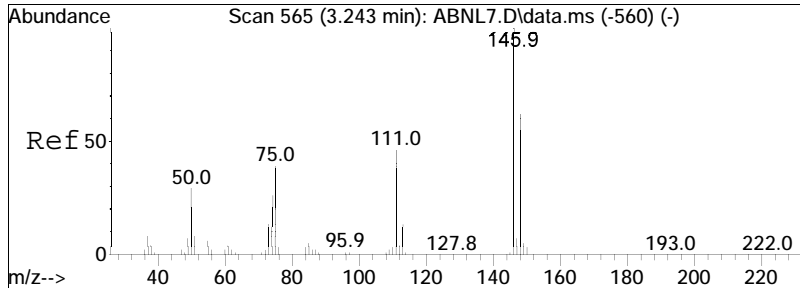




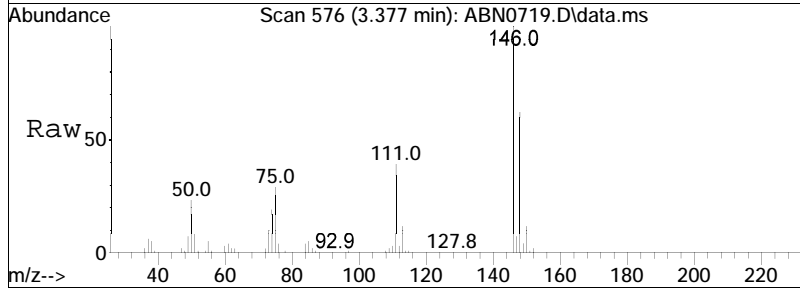
#10
 1,3-Dichlorobenzene
 Concen: 54.50 ug/ml
 RT: 3.334 min Scan# 562
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.0	35.8	53.6
148	62.9	51.2	76.8

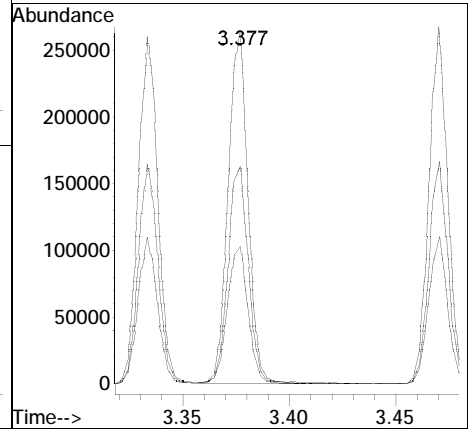
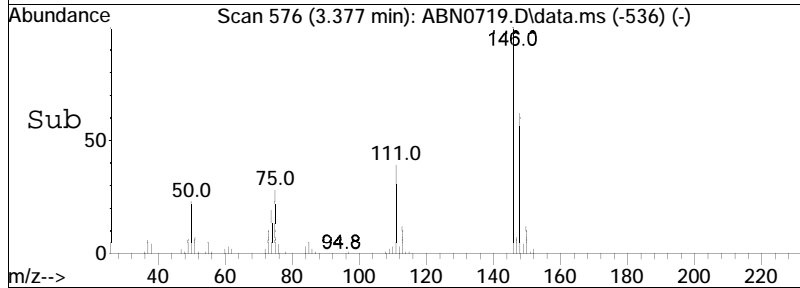


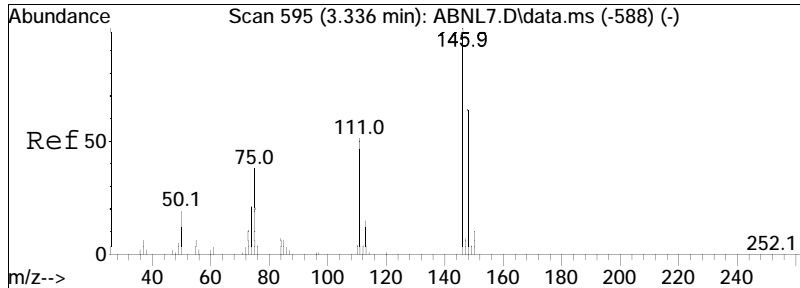


#11
 1,4-Dichlorobenzene
 Concen: 53.51 ug/ml
 RT: 3.377 min Scan# 576
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am



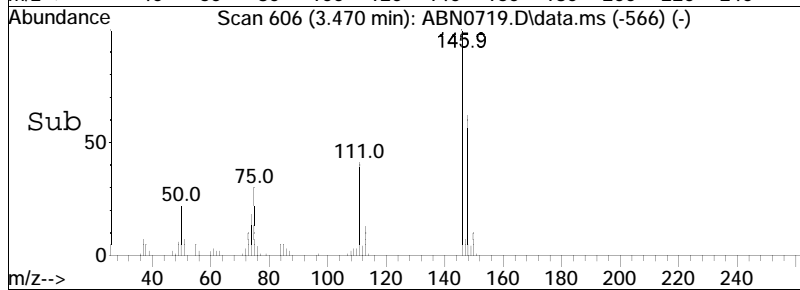
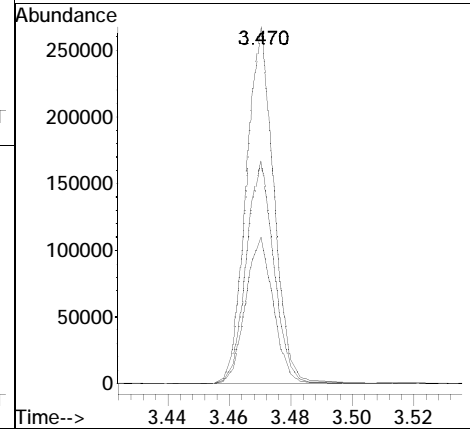
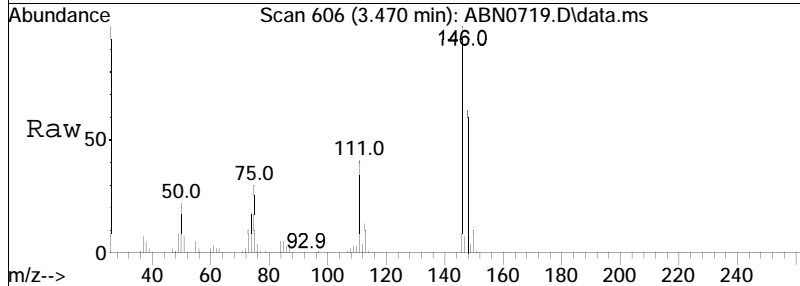
Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.2	51.6	77.4
111	40.8	35.3	52.9

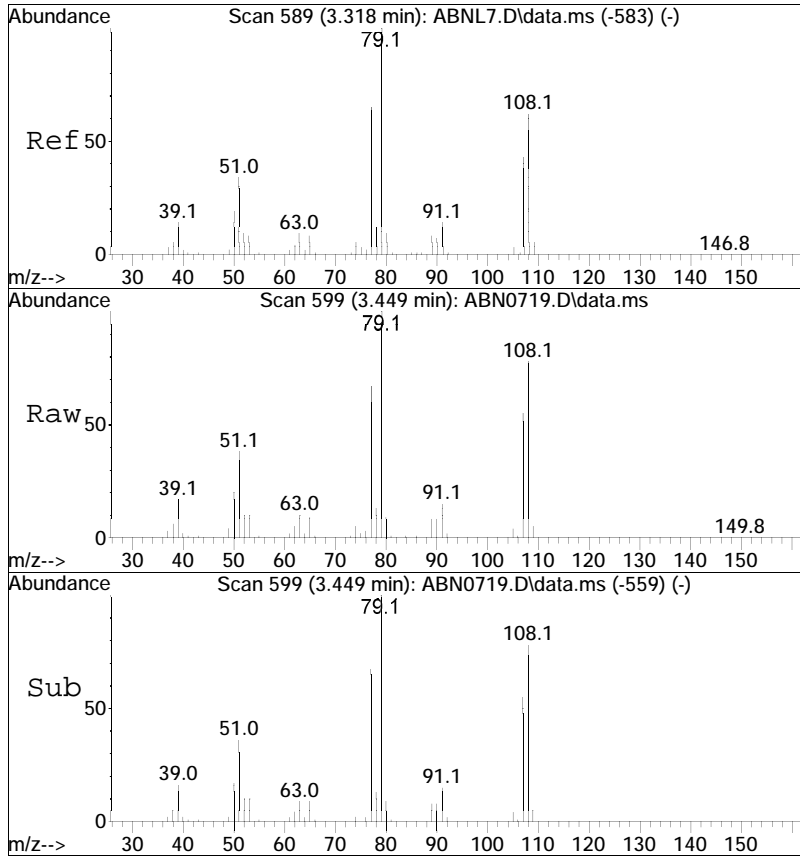




#12
 1,2-Dichlorobenzene
 Concen: 53.67 ug/ml
 RT: 3.470 min Scan# 606
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

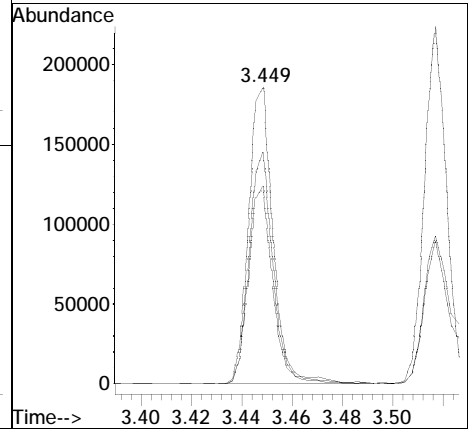
Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.0	36.0	54.0
148	63.2	49.9	74.9

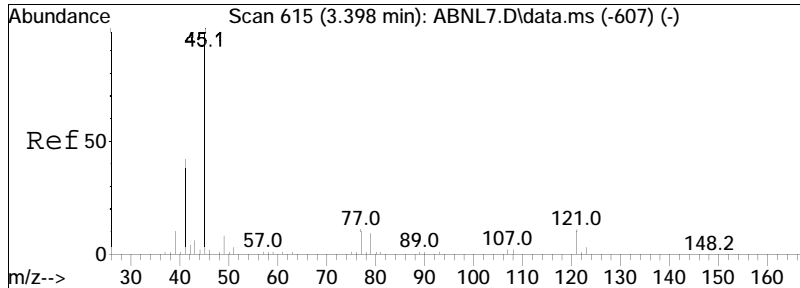




#13
 Benzyl alcohol
 Concen: 57.65 ug/ml
 RT: 3.449 min Scan# 599
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

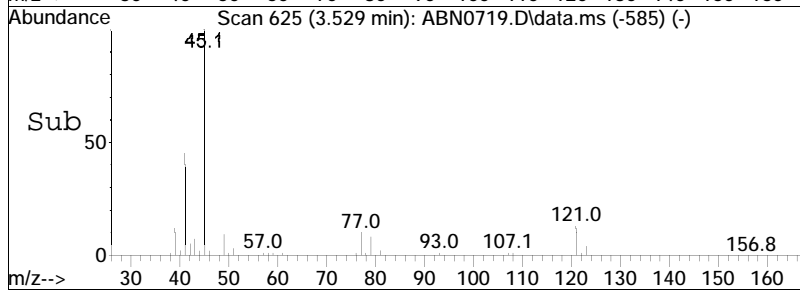
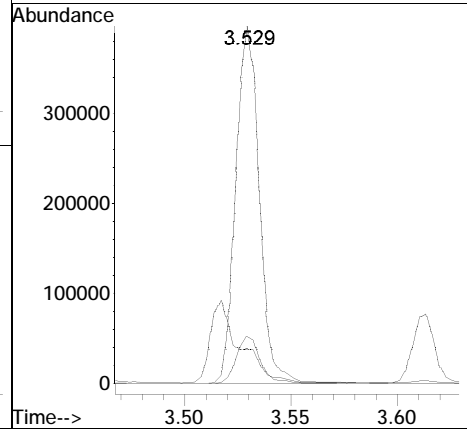
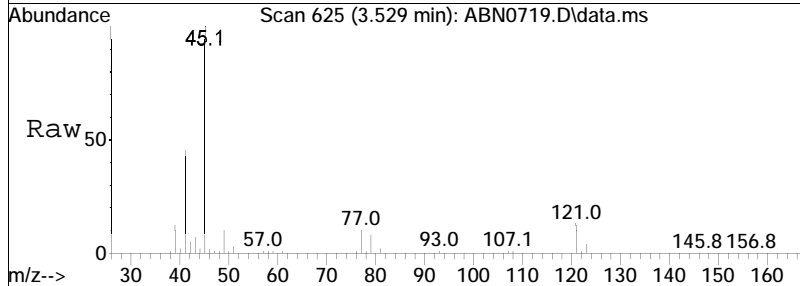
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
79	100		
77	66.4	52.3	78.5
108	78.3	60.2	90.4

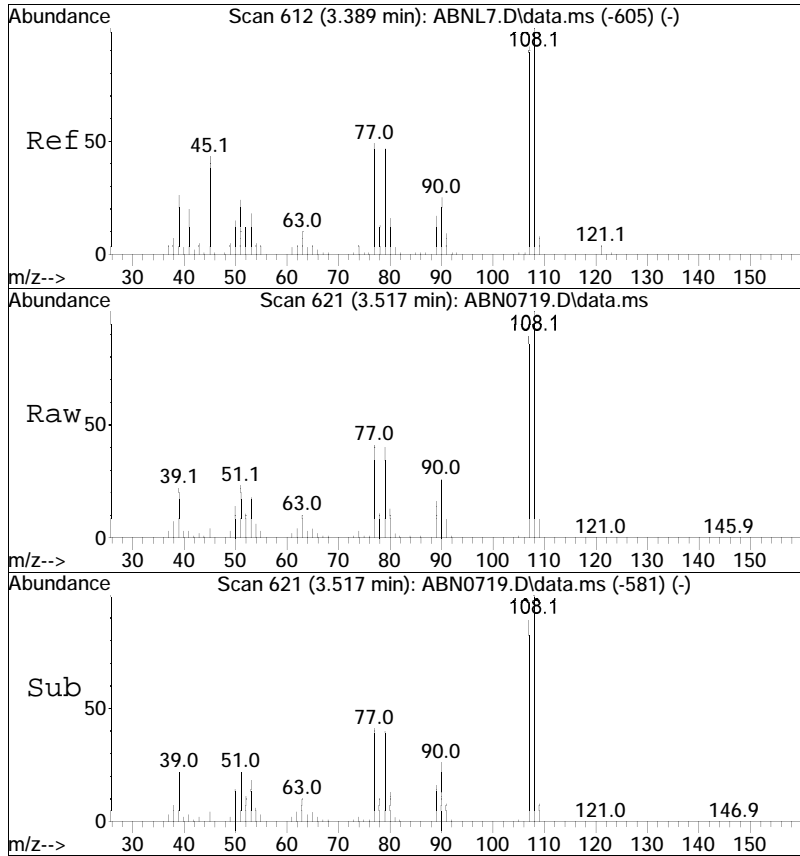




#14
 Bis(2-chloroisopropyl) ether
 Concen: 69.57 ug/ml
 RT: 3.529 min Scan# 625
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

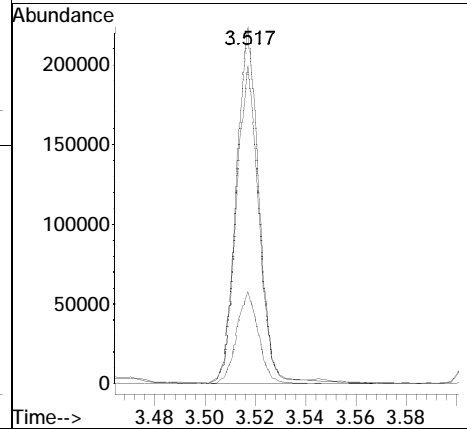
Tgt Ion:	45	Resp:	303531
Ion Ratio	Lower	Upper	
45	100		
121	13.4	12.6	19.0
77	29.7	26.4	39.6

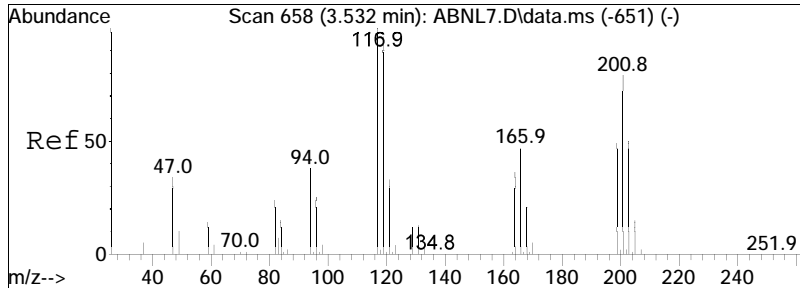




#15
 2-Methylphenol
 Concen: 55.45 ug/ml
 RT: 3.517 min Scan# 621
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

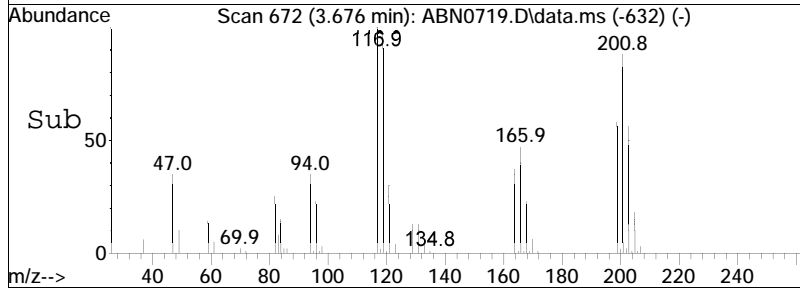
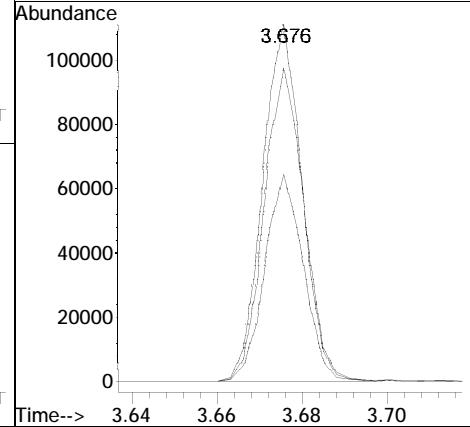
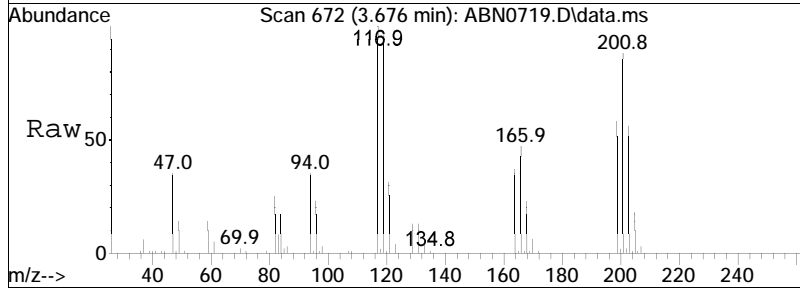
Tgt Ion	Ratio	Lower	Upper
108	100		
107	88.3	72.8	109.2
90	25.4	20.2	30.4

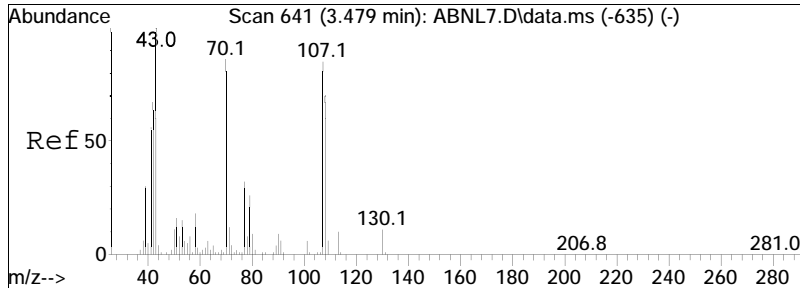




#16
 Hexachloroethane
 Concen: 56.99 ug/ml
 RT: 3.676 min Scan# 672
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

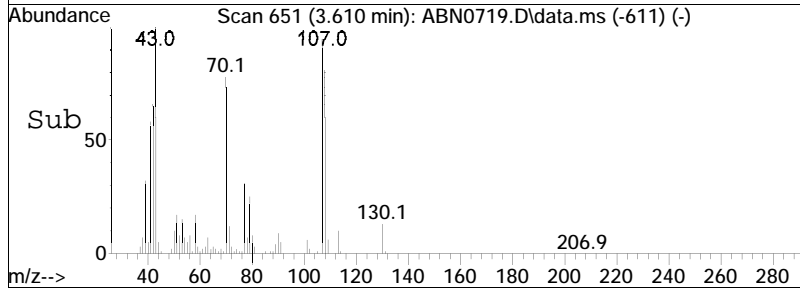
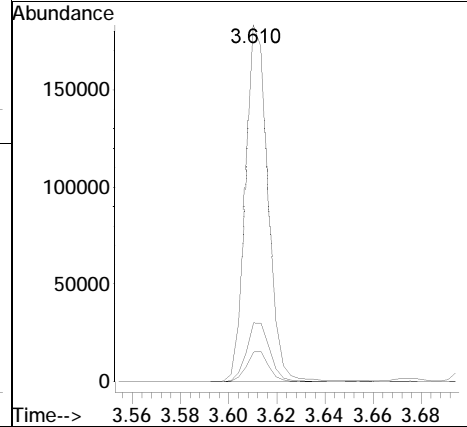
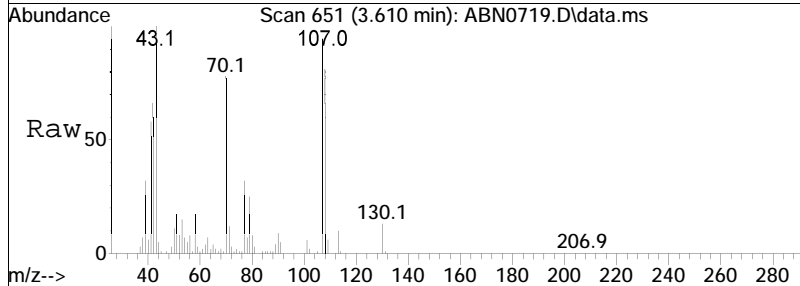
Tgt Ion	Resp	Lower	Upper
117	100		
201	89.2	64.5	96.7
199	57.4	40.3	60.5

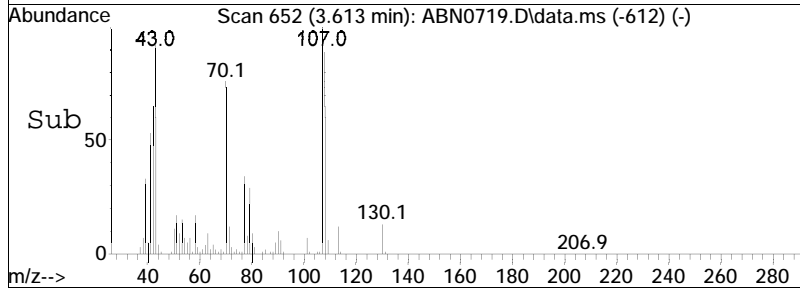
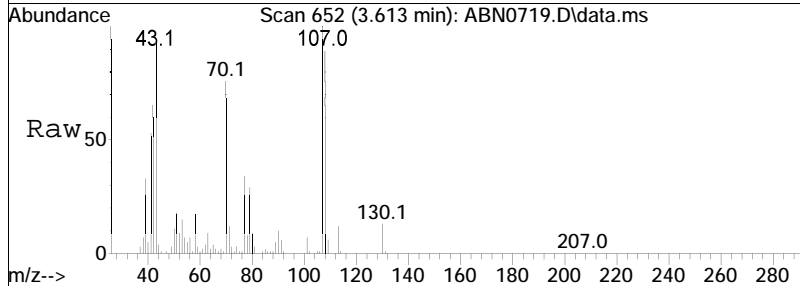
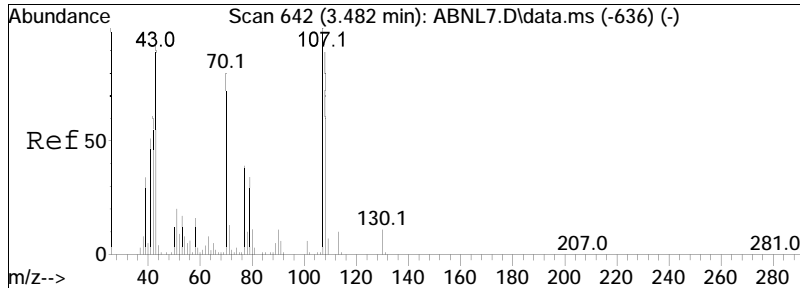




#17
 n-Nitrosodi-n-propylamine
 Concen: 60.29 ug/ml
 RT: 3.610 min Scan# 651
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

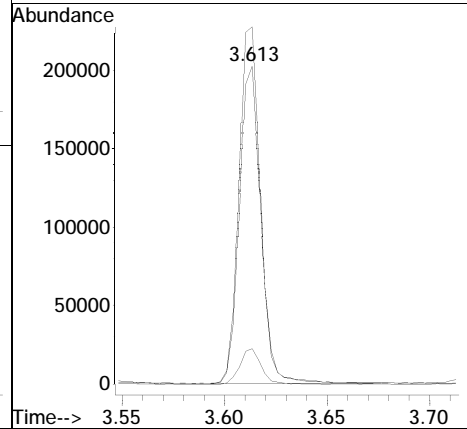
Tgt Ion	Resp	Lower	Upper
70	118880		
70	100		
130	17.1	15.0	22.4
101	8.3	7.4	11.0

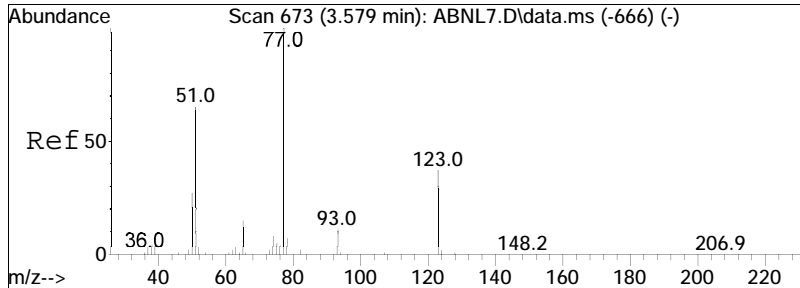




#18
 3-Methylphenol/4-Methylphenol
 Concen: 58.20 ug/ml
 RT: 3.613 min Scan# 652
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

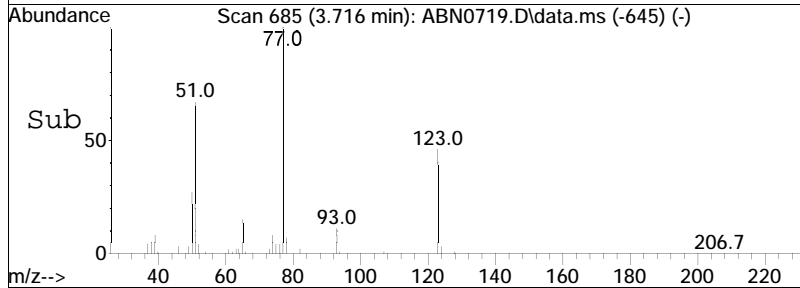
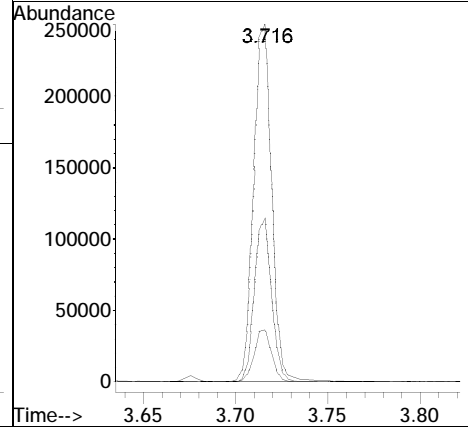
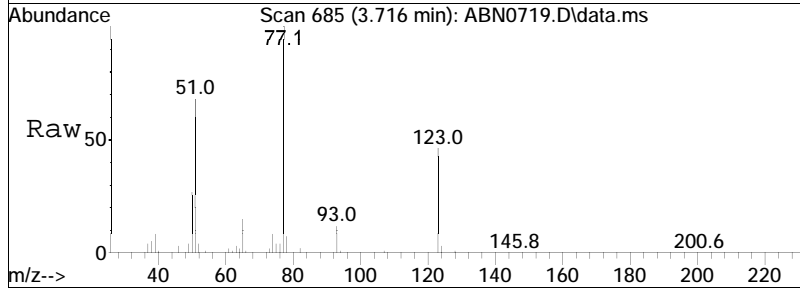
Tgt Ion	Resp	Lower	Upper
108	146757		
108	100		
107	113.5	90.4	135.6
90	11.0	9.2	13.8

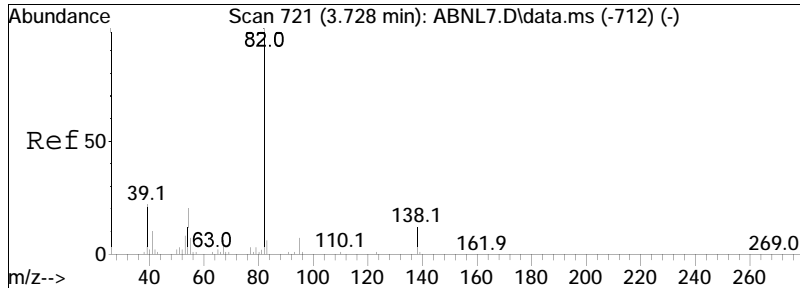




#20
 Nitrobenzene
 Concen: 57.72 ug/ml
 RT: 3.716 min Scan# 685
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

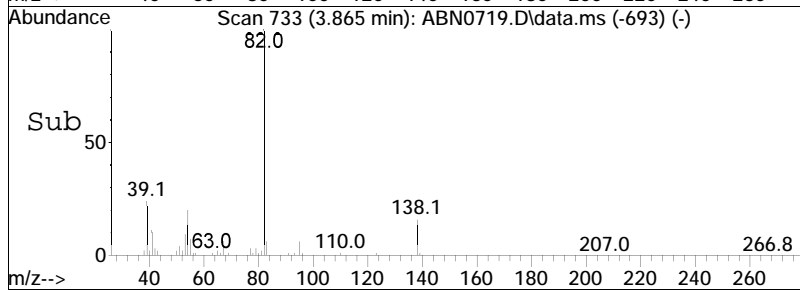
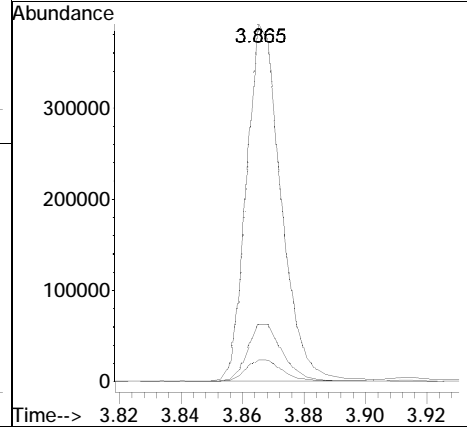
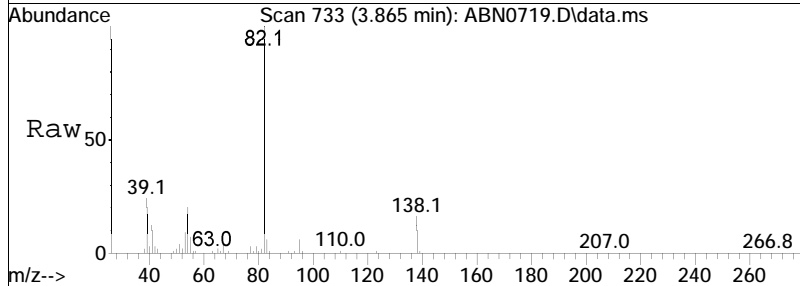
Tgt Ion	Resp	Lower	Upper
77	100		
123	44.2	35.0	52.4
65	14.6	11.5	17.3

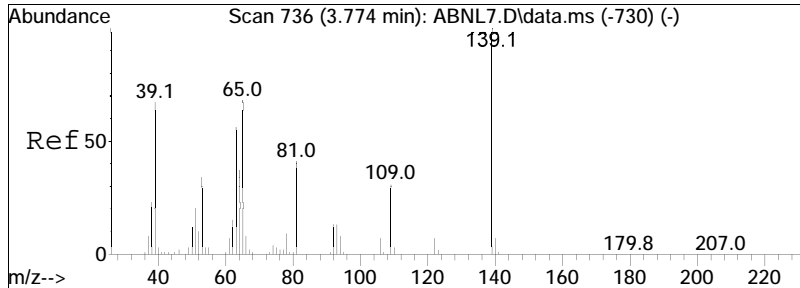




#21
 Isophorone
 Concen: 58.96 ug/ml
 RT: 3.865 min Scan# 733
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

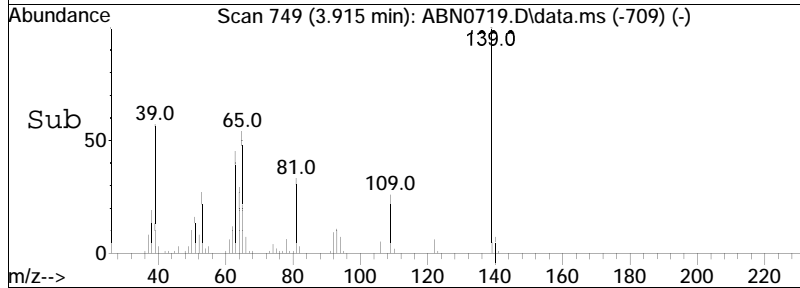
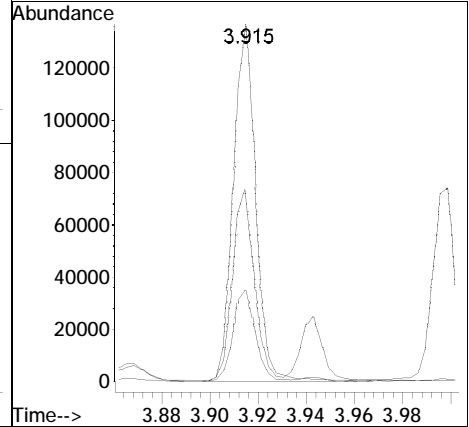
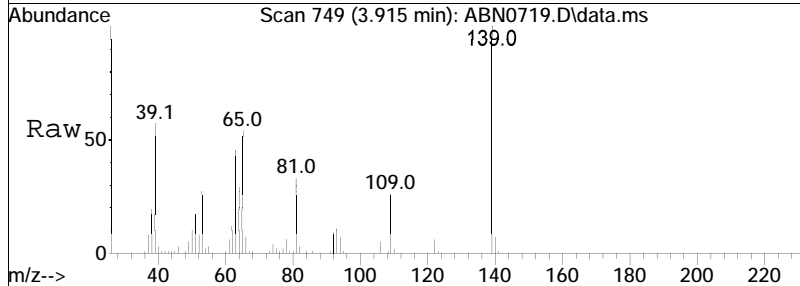
Tgt Ion	Resp	Lower	Upper
82	303791		
138	16.5	12.8	19.2
95	6.5	5.5	8.3

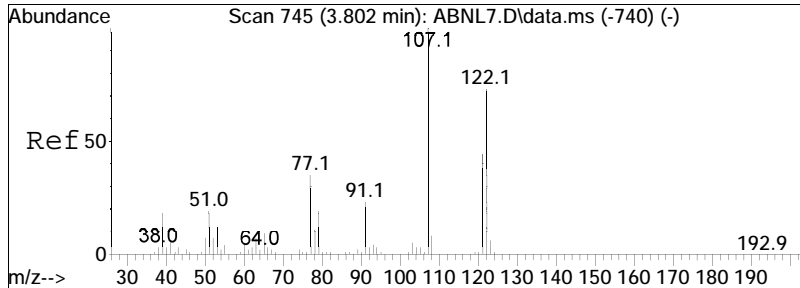




#22
 2-Nitrophenol
 Concen: 68.20 ug/ml
 RT: 3.915 min Scan# 749
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

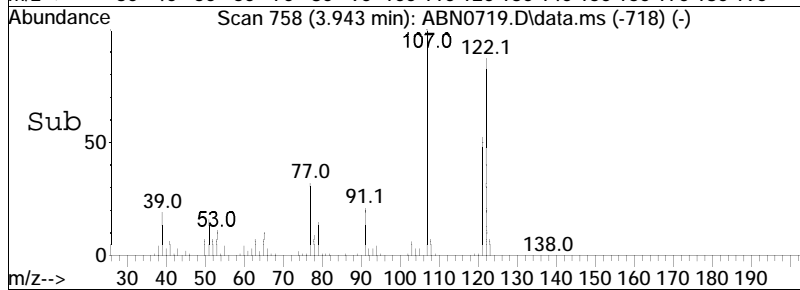
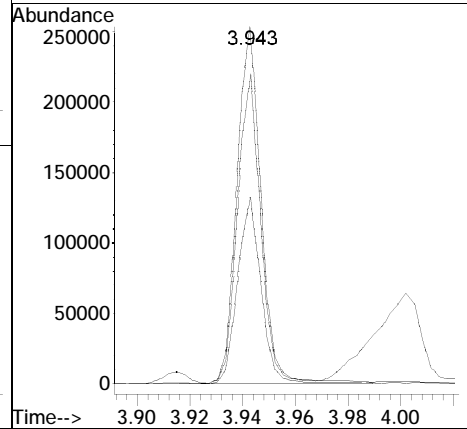
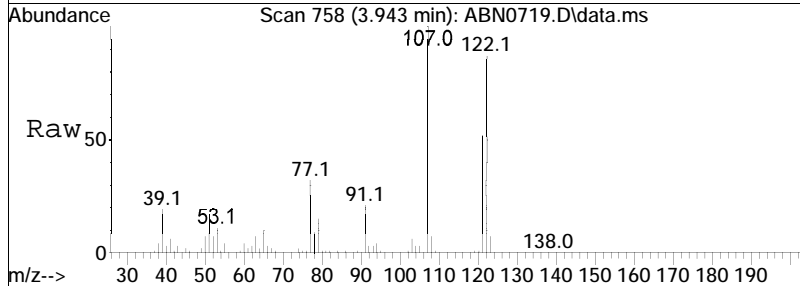
Tgt Ion	Resp	Lower	Upper
139	100		
109	25.8	24.8	37.2
65	52.6	45.5	68.3

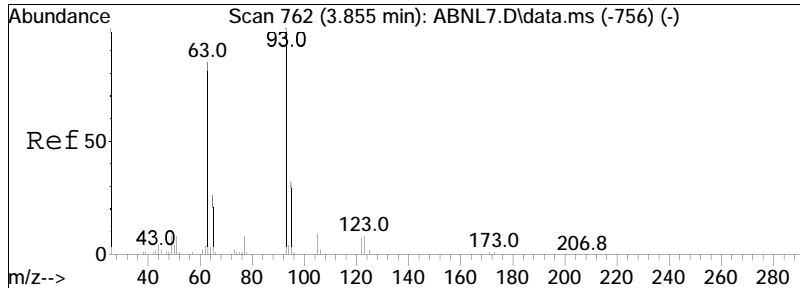




#23
 2,4-Dimethylphenol
 Concen: 58.56 ug/ml
 RT: 3.943 min Scan# 758
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

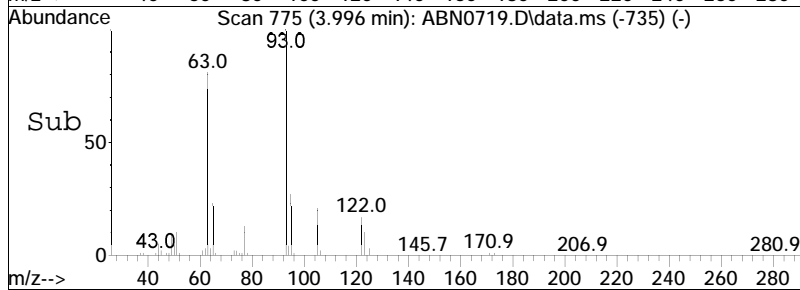
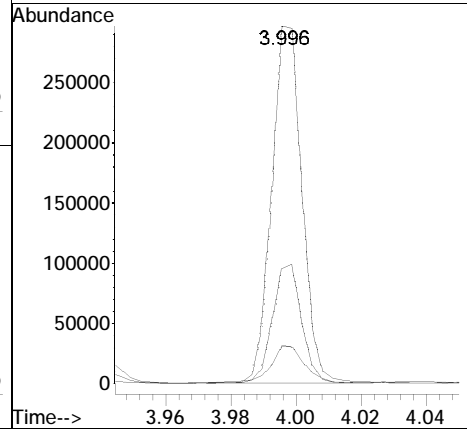
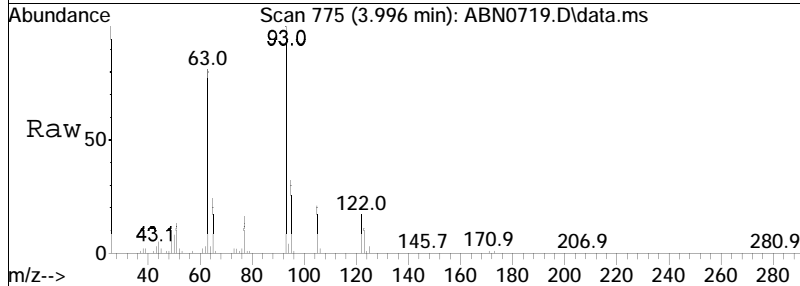
Tgt Ion	Resp	Lower	Upper
107	100		
121	50.7	39.7	59.5
122	83.2	66.8	100.2

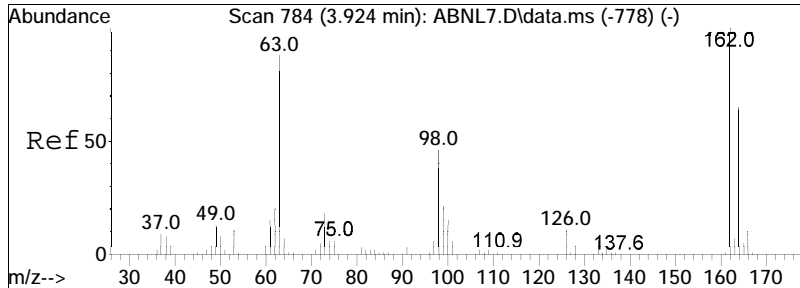




#24
 Bis(2-chloroethoxy)methane
 Concen: 57.78 ug/ml
 RT: 3.996 min Scan# 775
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

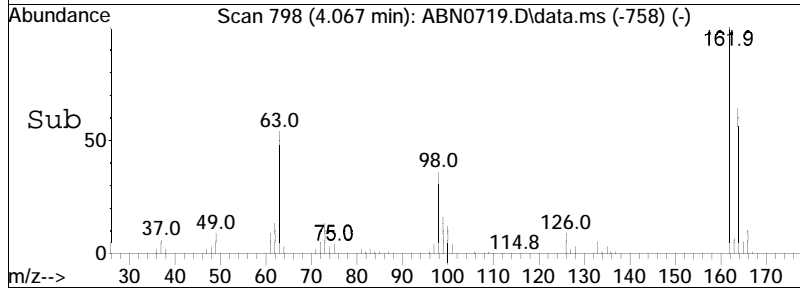
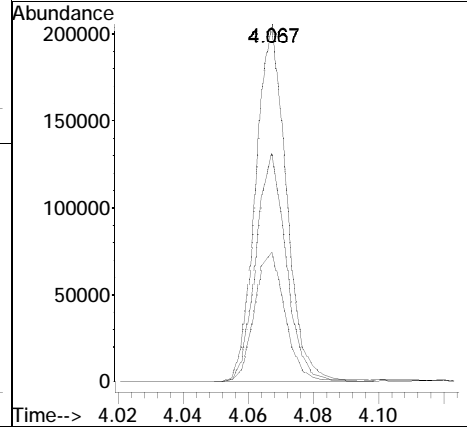
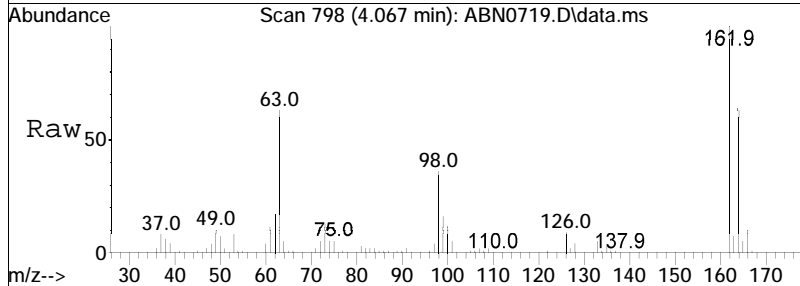
Tgt Ion	Resp	Lower	Upper
93	100		
95	32.4	26.1	39.1
123	12.7	9.8	14.8

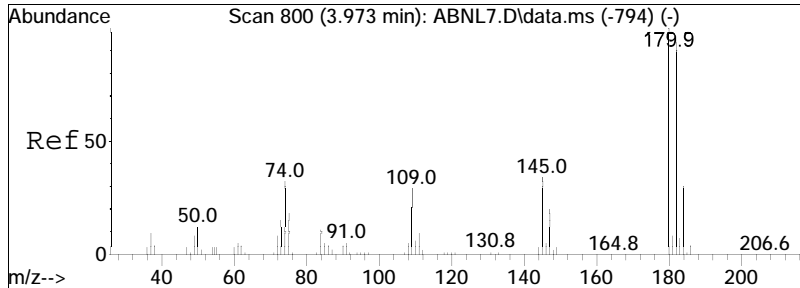




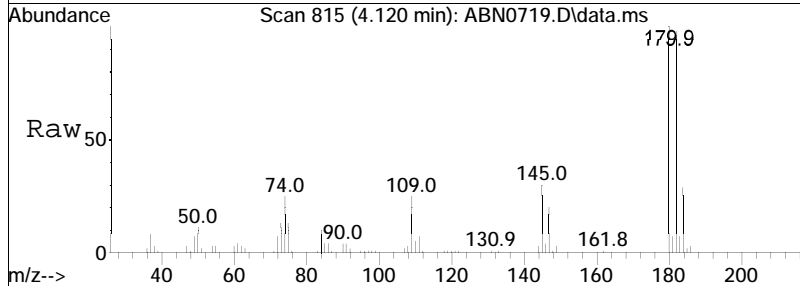
#25
 2,4-Dichlorophenol
 Concen: 57.73 ug/ml
 RT: 4.067 min Scan# 798
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

Tgt Ion	Ratio	Lower	Upper
162	100		
164	63.2	50.4	75.6
98	36.6	31.6	47.4

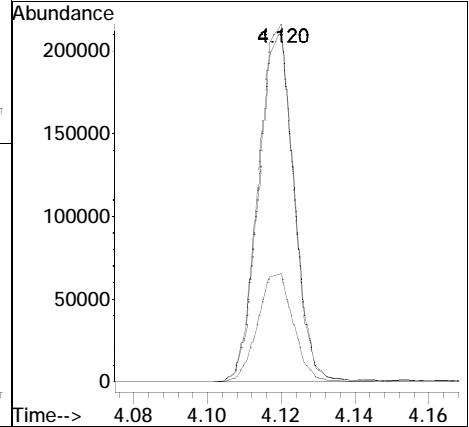
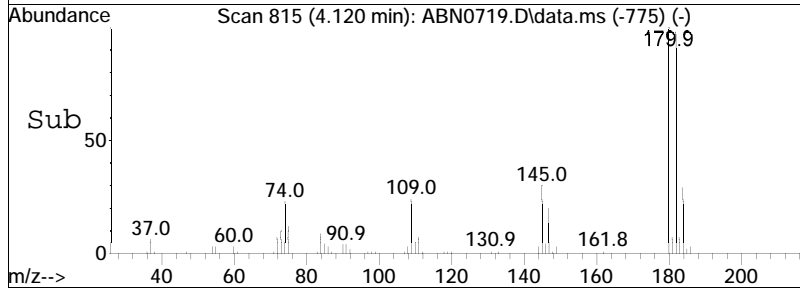


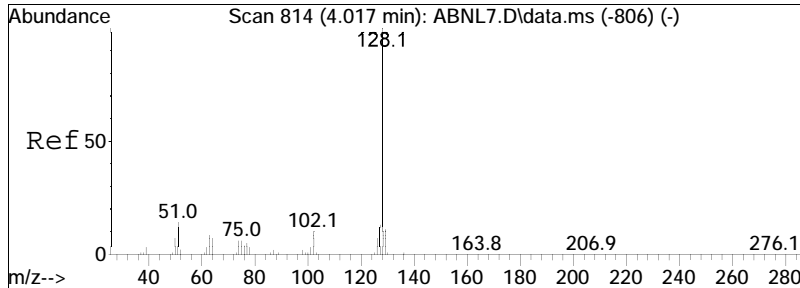


#26
 1,2,4-Trichlorobenzene
 Concen: 52.35 ug/ml
 RT: 4.120 min Scan# 815
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am



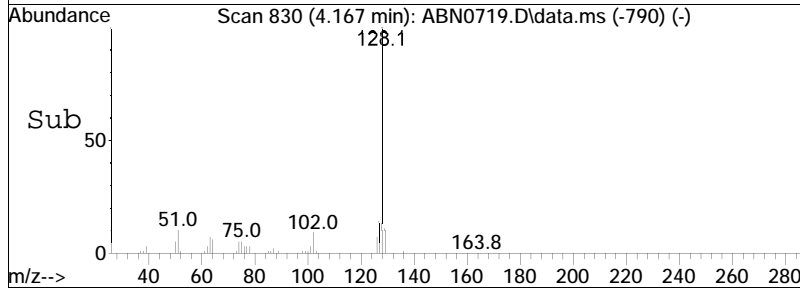
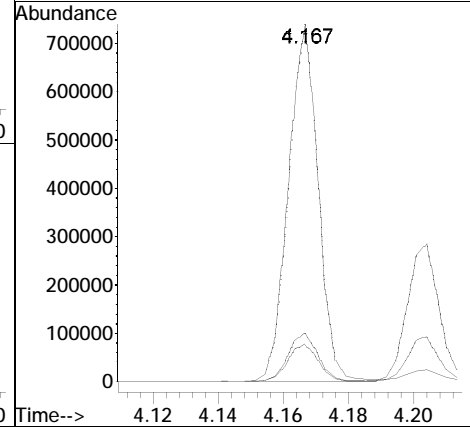
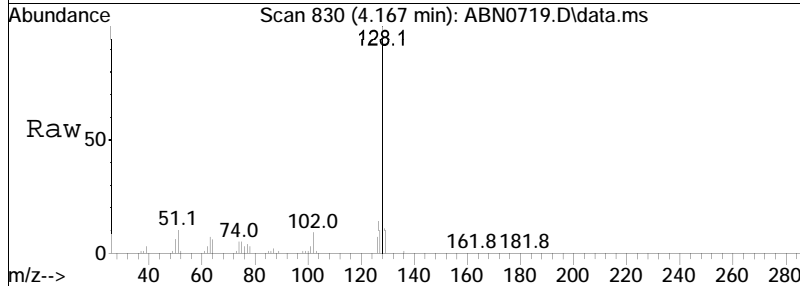
Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	74.7	112.1
145	30.5	26.6	39.8

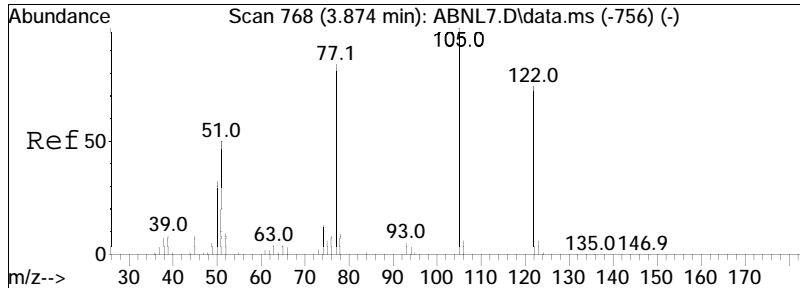




#36
 Naphthalene
 Concen: 53.04 ug/ml
 RT: 4.167 min Scan# 830
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

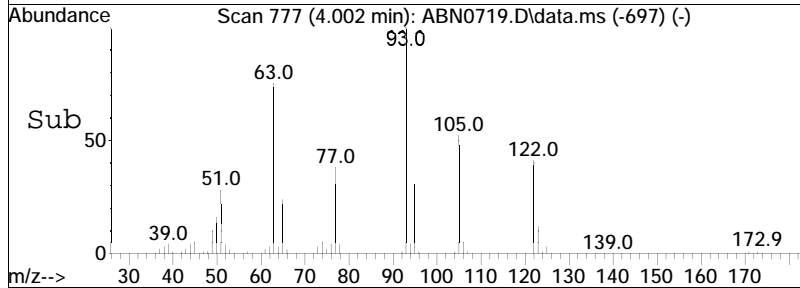
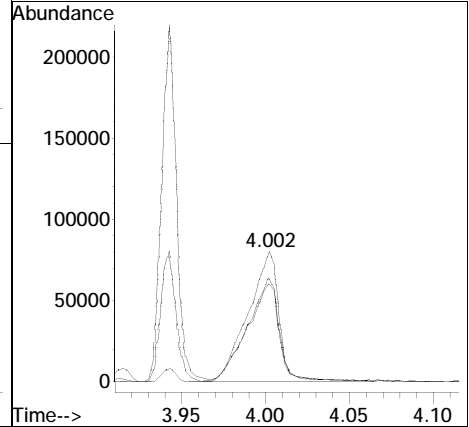
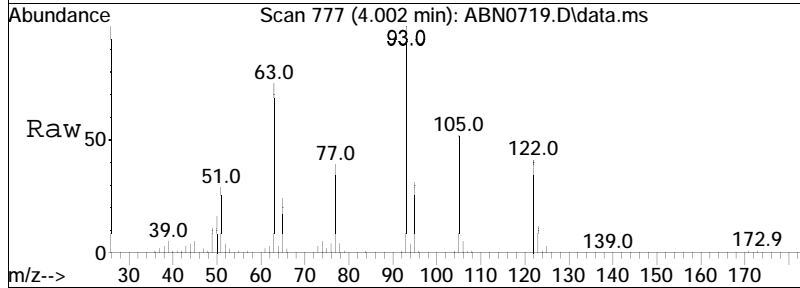
Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.7	13.1
127	13.7	10.7	16.1

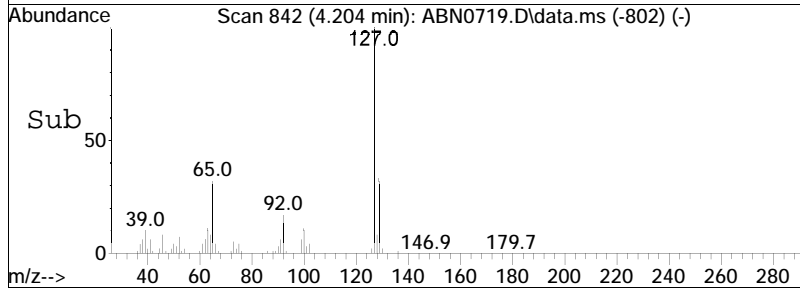
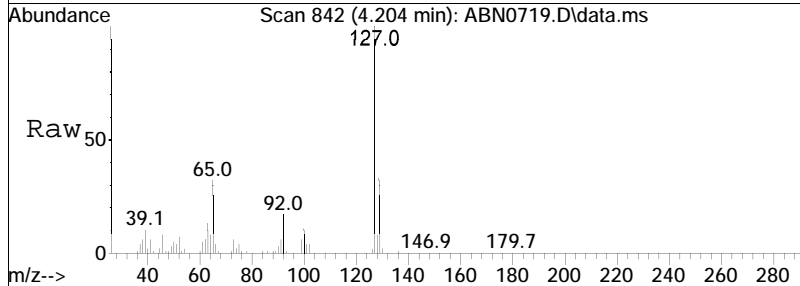
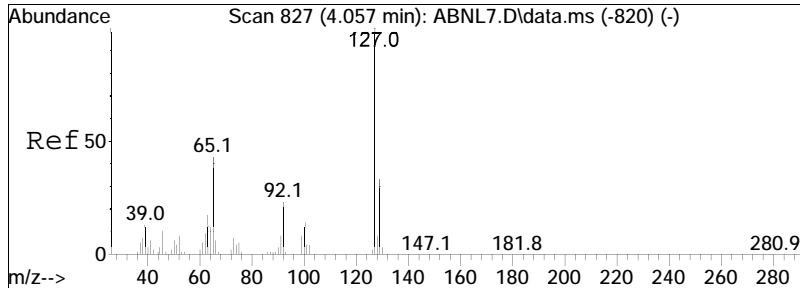




#37
 Benzoic Acid
 Concen: 49.40 ug/ml
 RT: 4.002 min Scan# 777
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

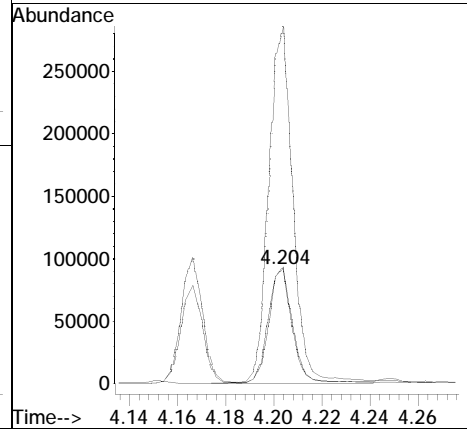
Tgt Ion	Ratio	Lower	Upper
105	100		
122	78.9	61.8	92.6
77	75.5	62.2	93.4

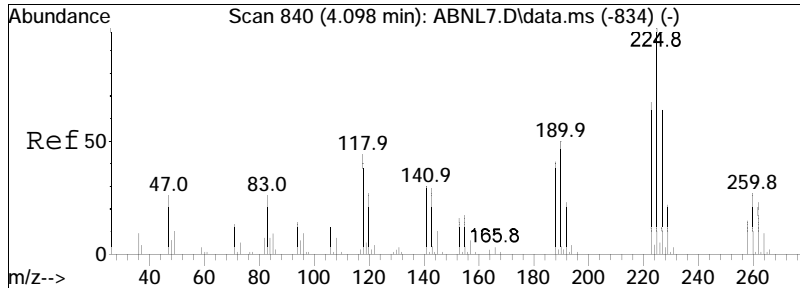




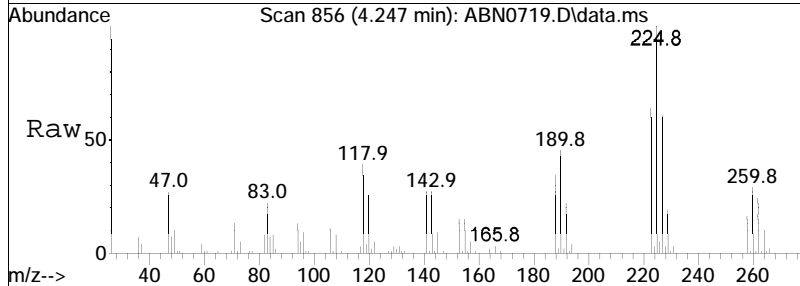
#38
 4-Chloroaniline
 Concen: 59.25 ug/ml
 RT: 4.204 min Scan# 842
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
65	100		
127	307.3	233.2	349.8
129	97.9	74.6	111.8

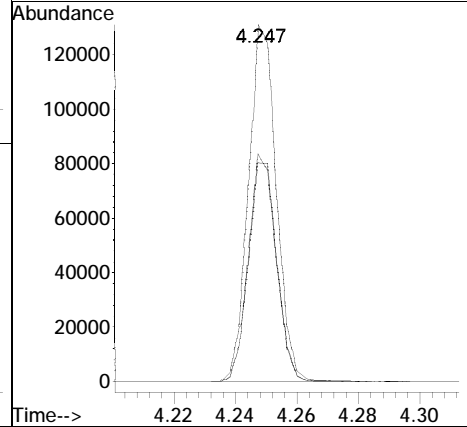
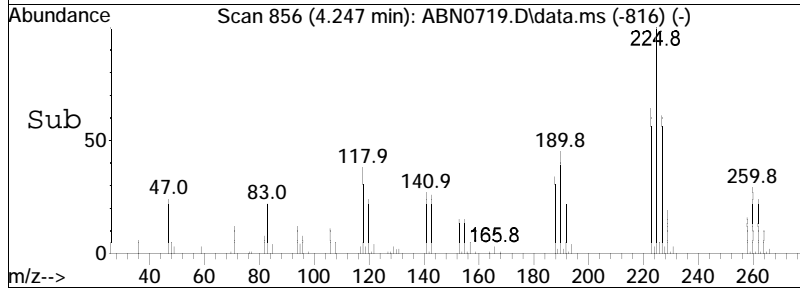


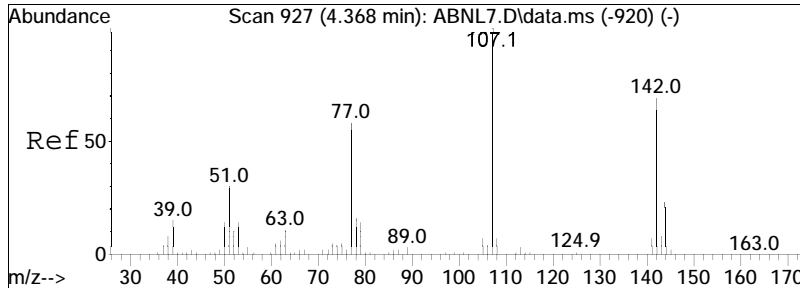


#39
 Hexachlorobutadiene
 Concen: 47.23 ug/ml
 RT: 4.247 min Scan# 856
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am



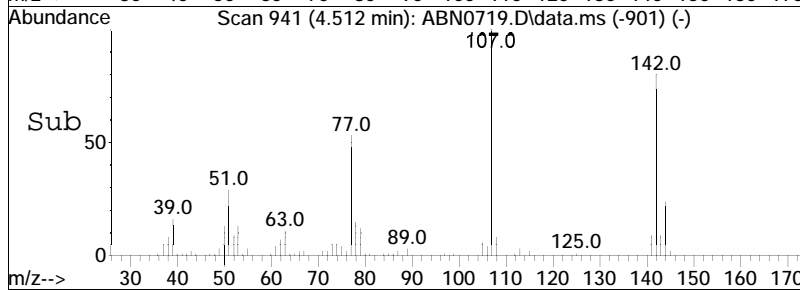
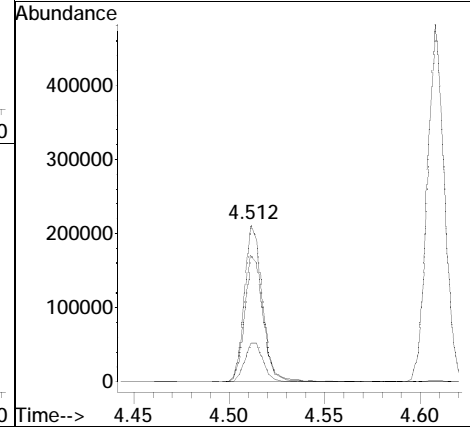
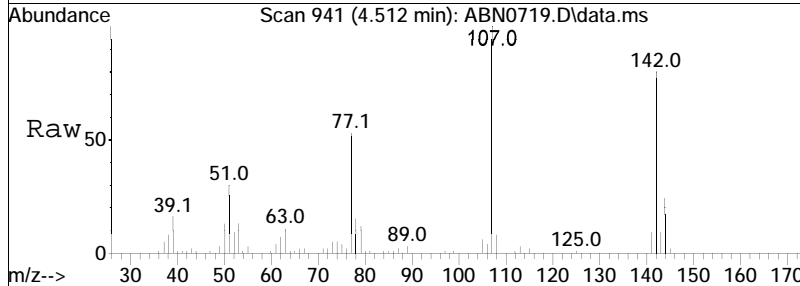
Tgt Ion	Resp	Lower	Upper
225	100		
223	63.1	49.4	74.0
227	63.1	50.8	76.2

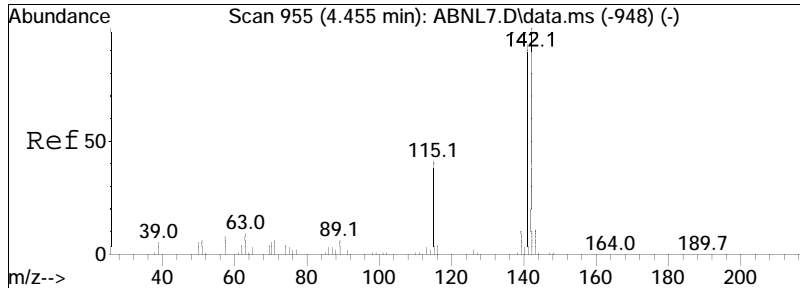




#40
 p-Chloro-m-cresol
 Concen: 60.48 ug/ml
 RT: 4.512 min Scan# 941
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

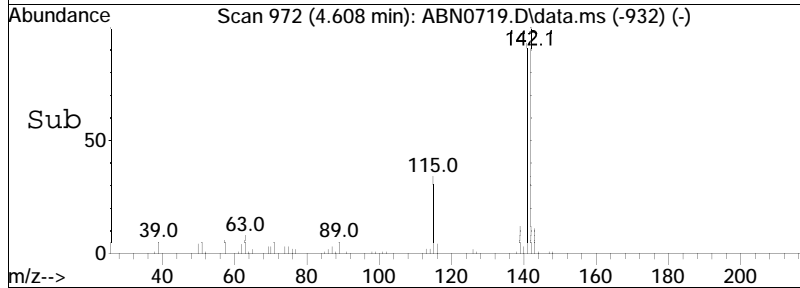
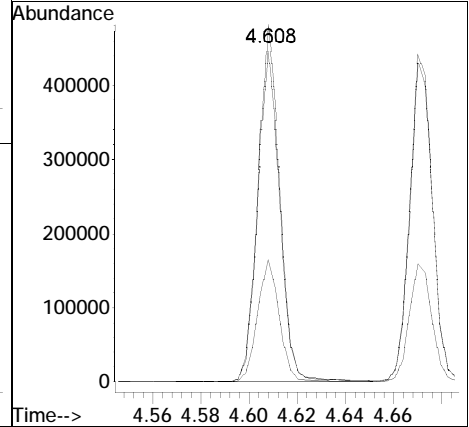
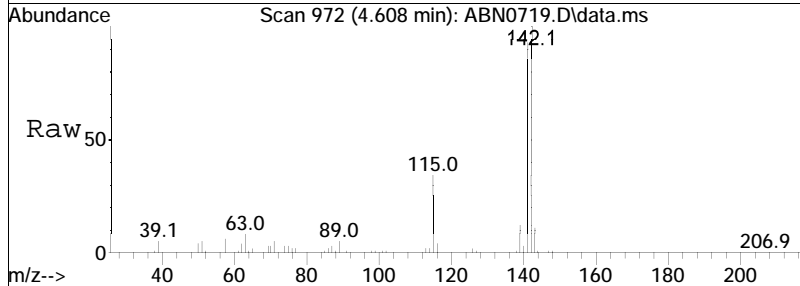
Tgt Ion	Ratio	Lower	Upper
107	100		
144	25.5	19.6	29.4
142	81.4	62.2	93.4

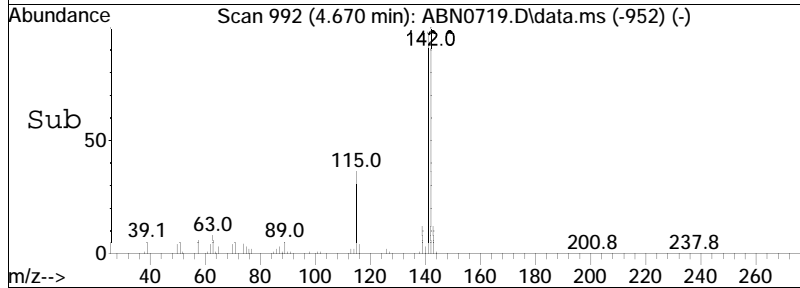
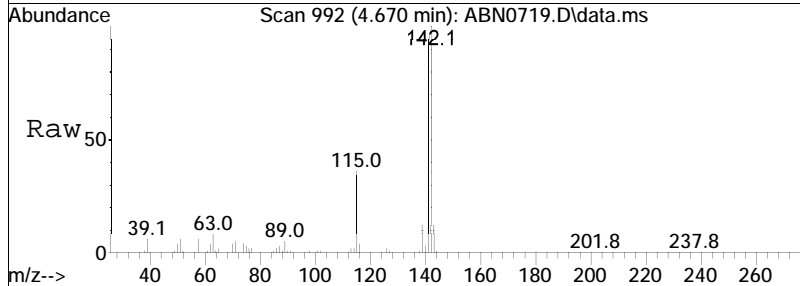
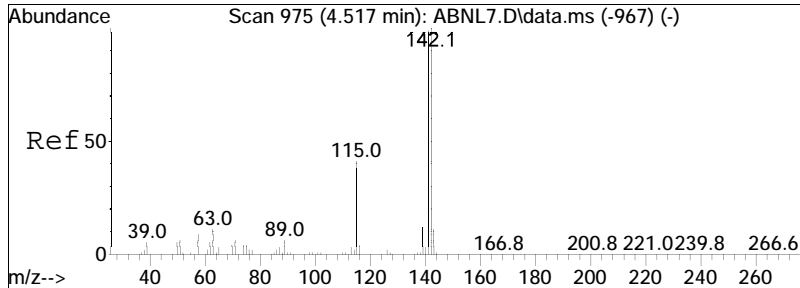




#41
 2-Methylnaphthalene
 Concen: 53.53 ug/ml
 RT: 4.608 min Scan# 972
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

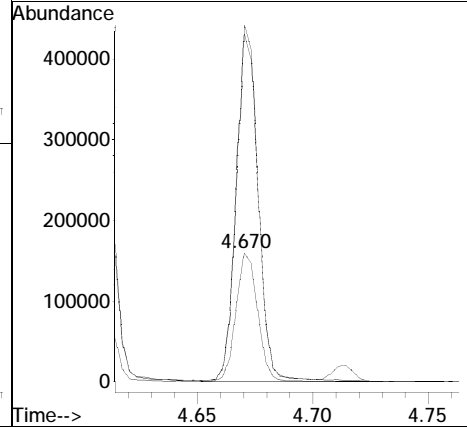
Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.0	71.8	107.8
115	34.8	29.1	43.7

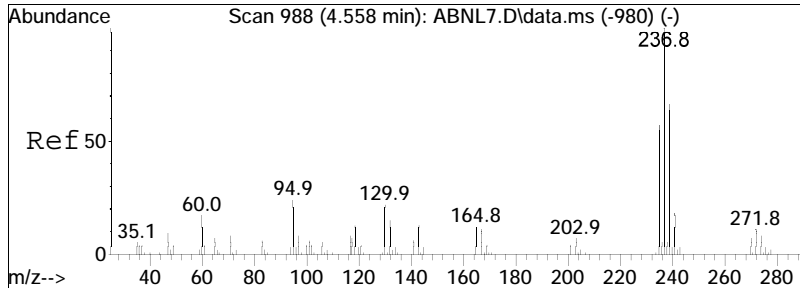




#42
 1-Methylnaphthalene
 Concen: 51.53 ug/ml
 RT: 4.670 min Scan# 992
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

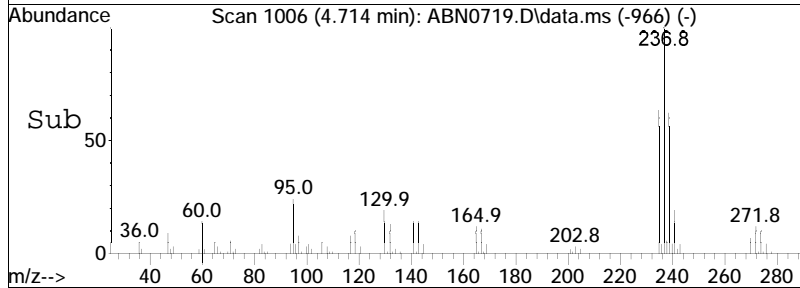
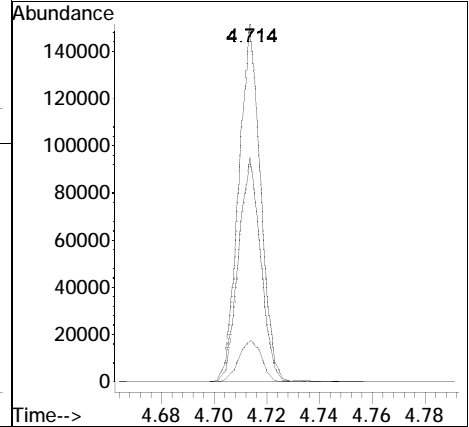
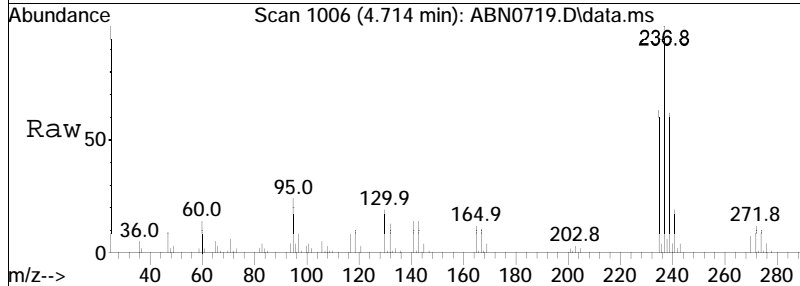
Tgt Ion	Resp	Lower	Upper
115	105793		
141	267.7	196.6	294.8
142	275.9	209.2	313.8

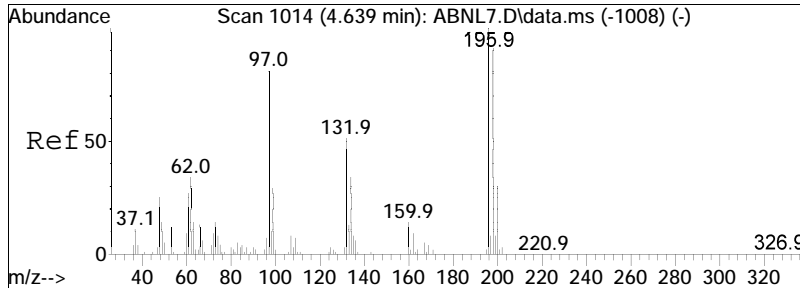




#43
 Hexachlorocyclopentadiene
 Concen: 38.70 ug/ml
 RT: 4.714 min Scan# 1006
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

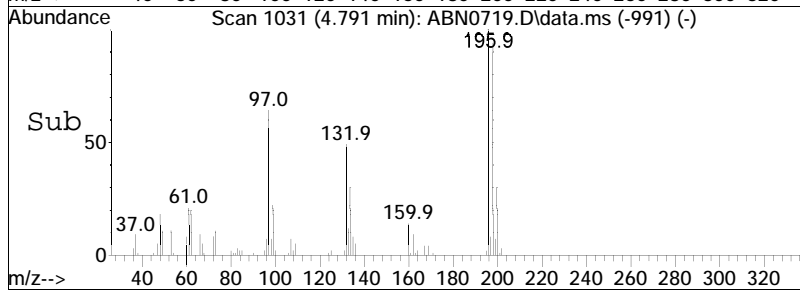
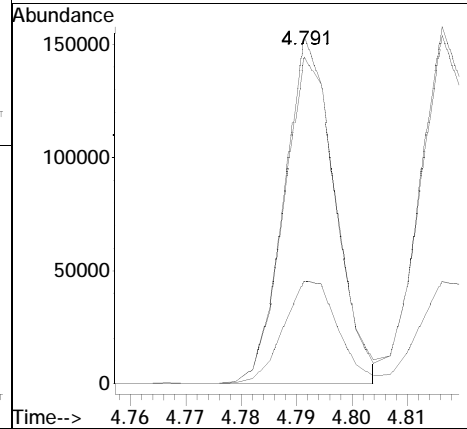
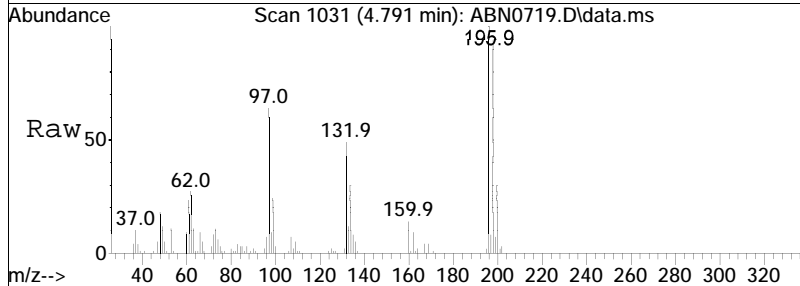
Tgt Ion	Ratio	Lower	Upper
237	100		
235	63.2	47.8	71.6
272	12.3	10.4	15.6

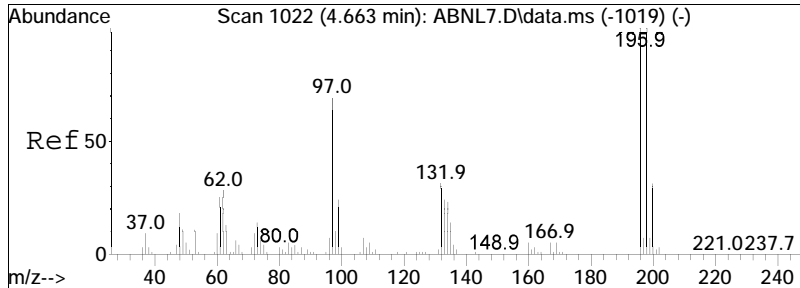




#44
 2,4,6-Trichlorophenol
 Concen: 55.50 ug/ml
 RT: 4.791 min Scan# 1031
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

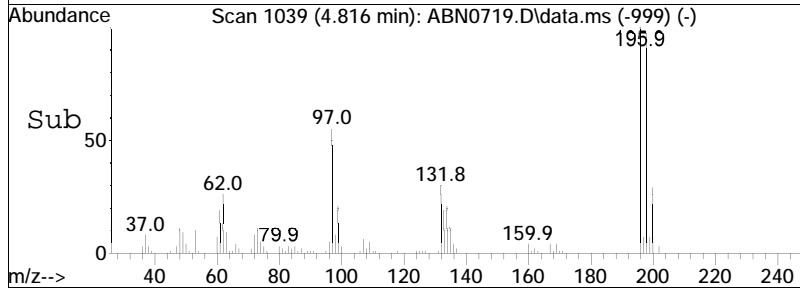
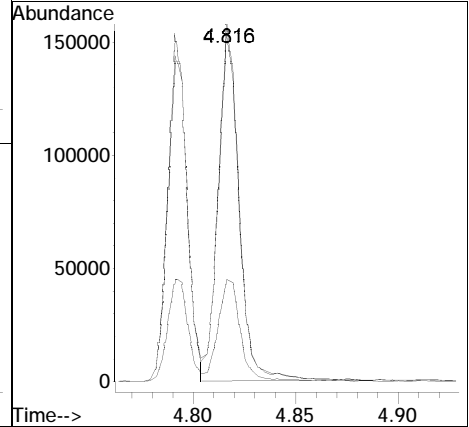
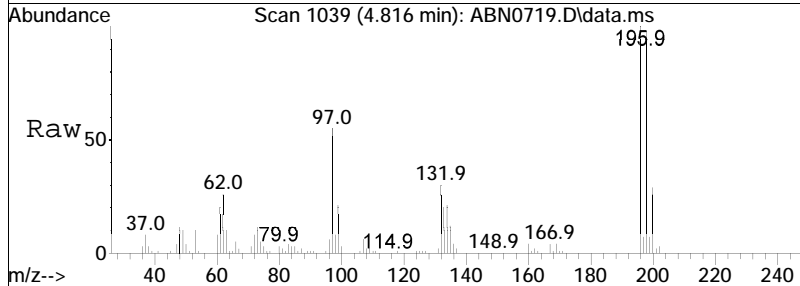
Tgt Ion	Resp	Lower	Upper
196	97866		
196	100		
198	97.3	81.5	122.3
200	31.7	26.2	39.2

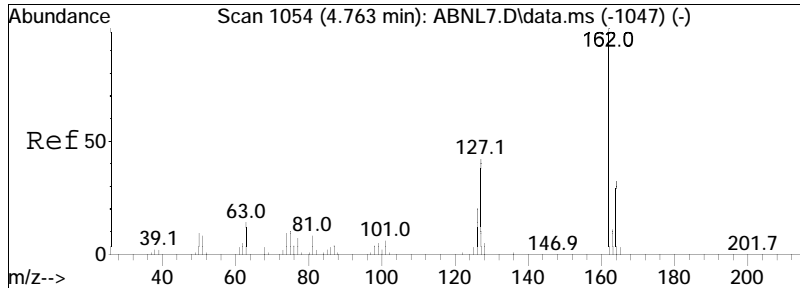




#45
 2,4,5-Trichlorophenol
 Concen: 57.77 ug/ml
 RT: 4.816 min Scan# 1039
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

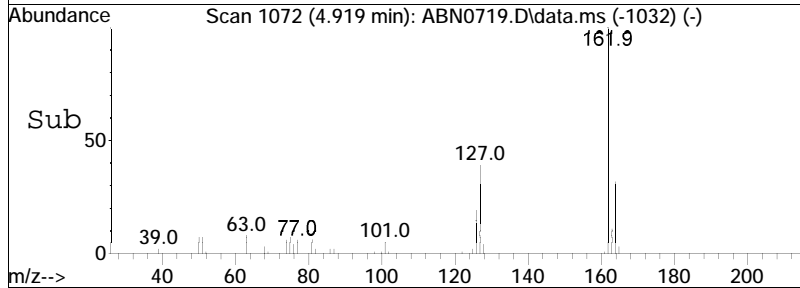
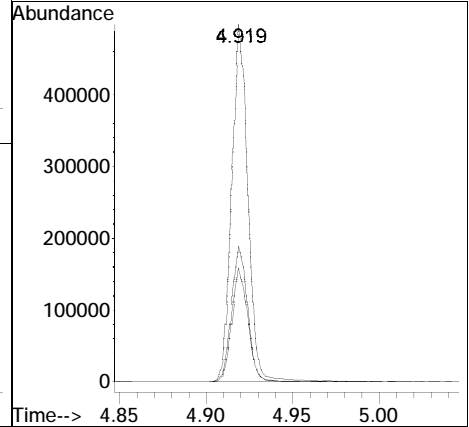
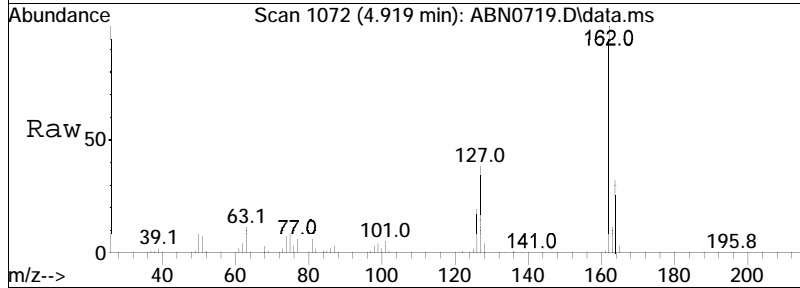
Tgt Ion	Resp	Lower	Upper
196	112145		
196	100		
200	30.0	25.5	38.3
198	95.7	79.2	118.8

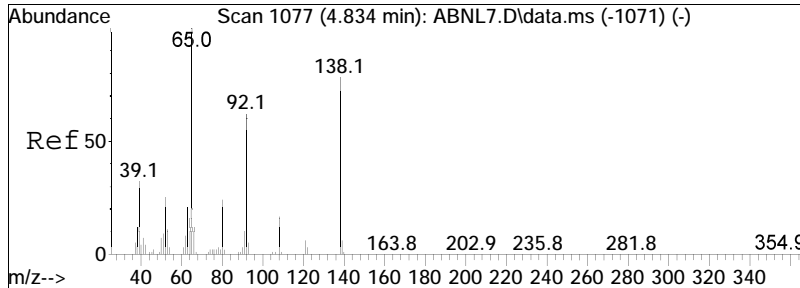




#47
 2-Chloronaphthalene
 Concen: 55.75 ug/ml
 RT: 4.919 min Scan# 1072
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

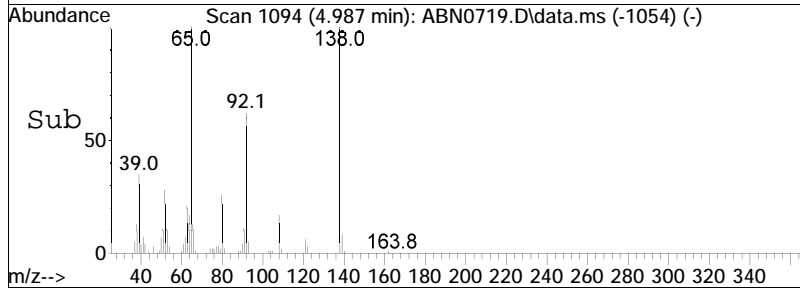
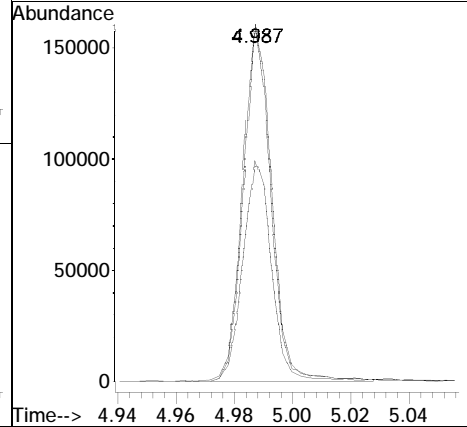
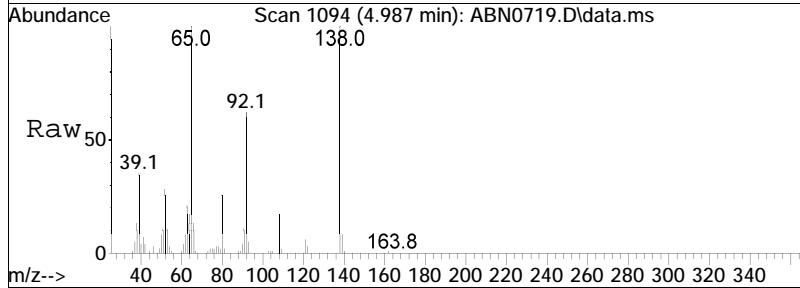
Tgt Ion	Resp	Lower	Upper
162	318346		
162	100		
127	38.0	33.6	50.4
164	31.5	25.8	38.8

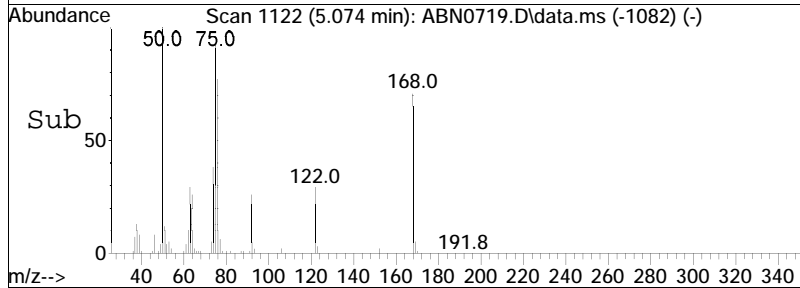
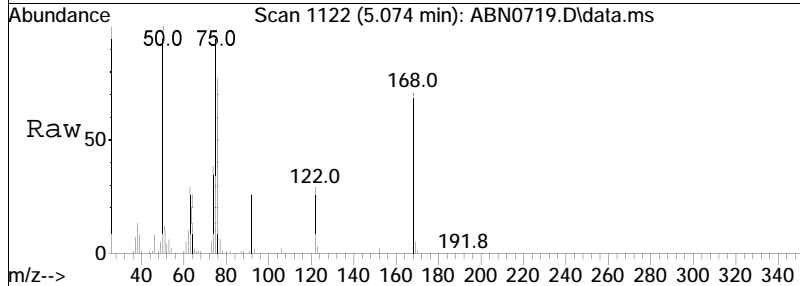
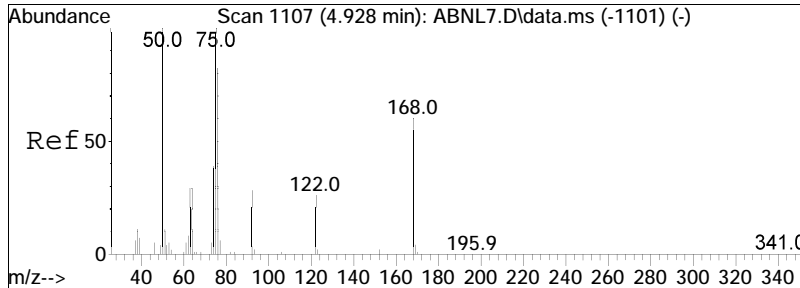




#48
 2-Nitroaniline
 Concen: 64.51 ug/ml
 RT: 4.987 min Scan# 1094
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

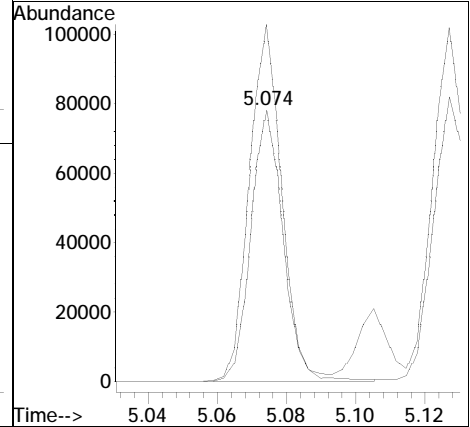
Tgt Ion	Resp	Lower	Upper
138	106835		
138	100		
92	62.9	54.2	81.2
65	100.2	82.8	124.2

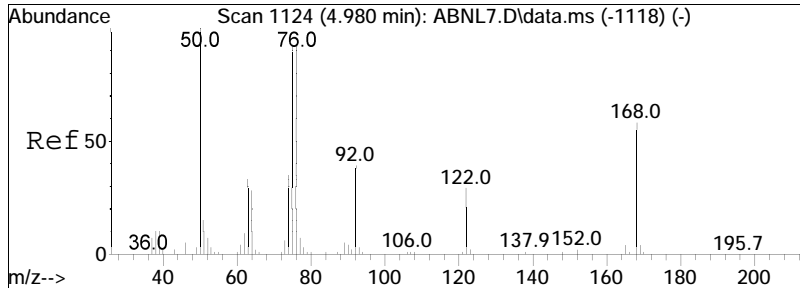




#49
 1,4-Dinitrobenzene
 Concen: 65.30 ug/ml
 RT: 5.074 min Scan# 1122
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

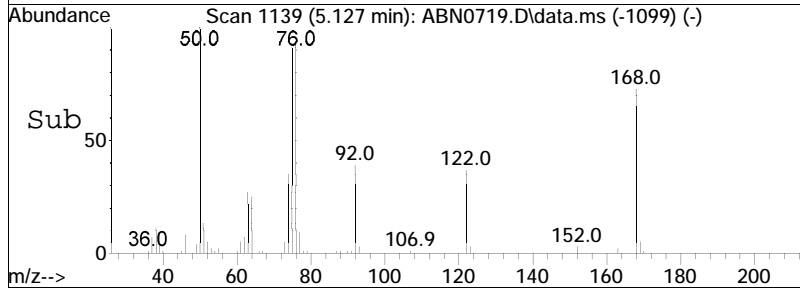
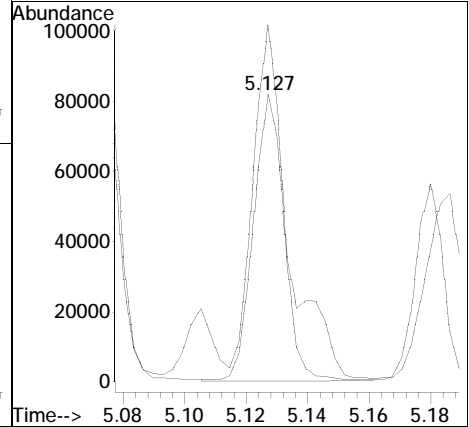
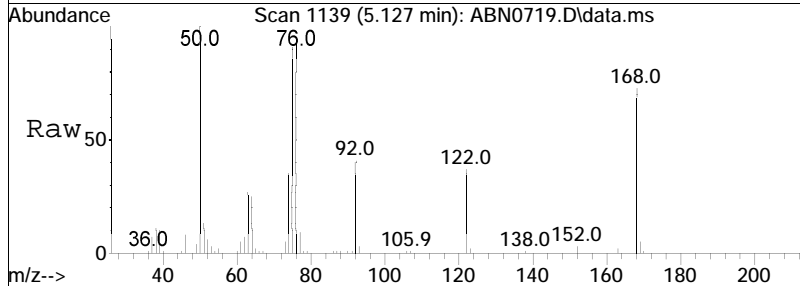
Tgt Ion	Resp	Lower	Upper
168	100		
75	132.4	120.1	180.1

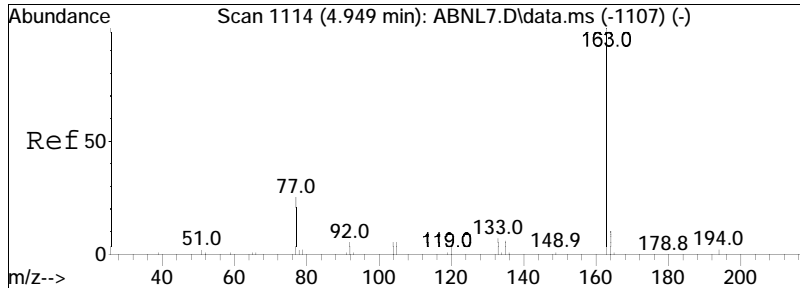




#50
 1,3-Dinitrobenzene
 Concen: 63.25 ug/ml
 RT: 5.127 min Scan# 1139
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

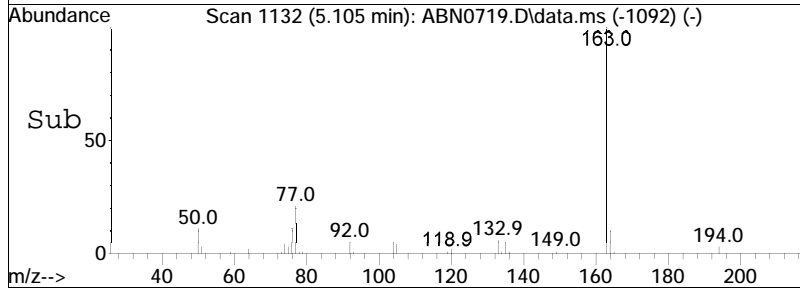
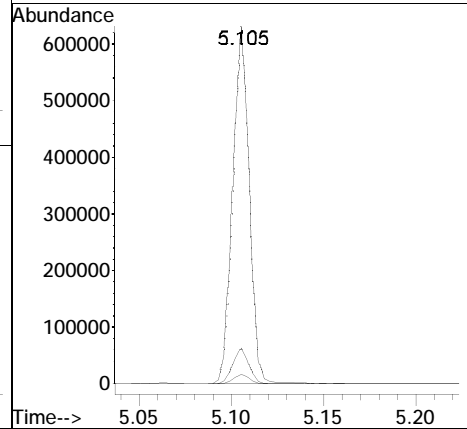
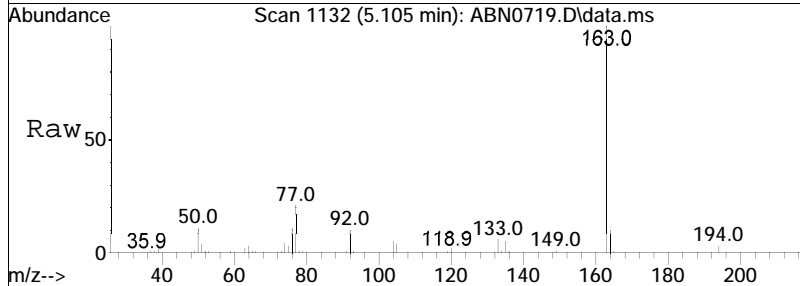
Tgt Ion: 168 Resp: 56857
 Ion Ratio Lower Upper
 168 100
 75 144.4 123.2 184.8

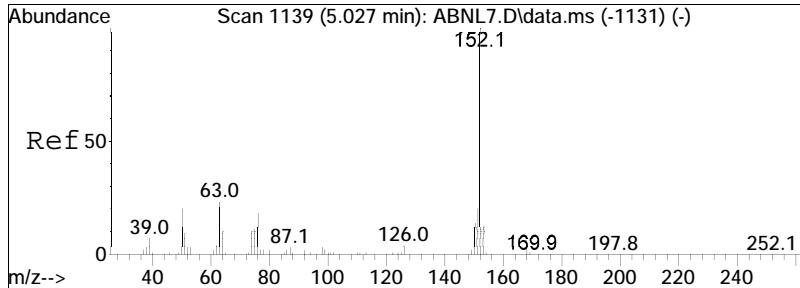




#51
 Dimethyl phthalate
 Concen: 57.48 ug/ml
 RT: 5.105 min Scan# 1132
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

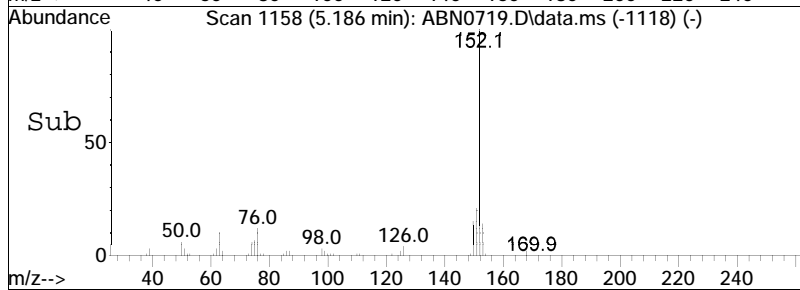
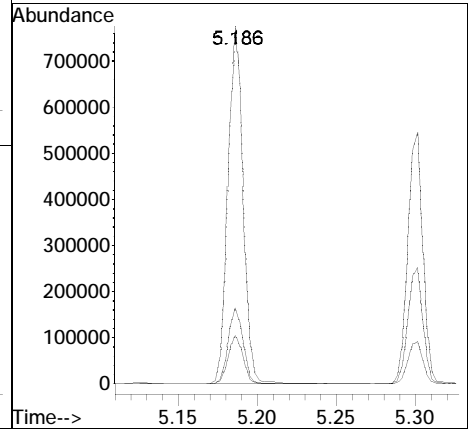
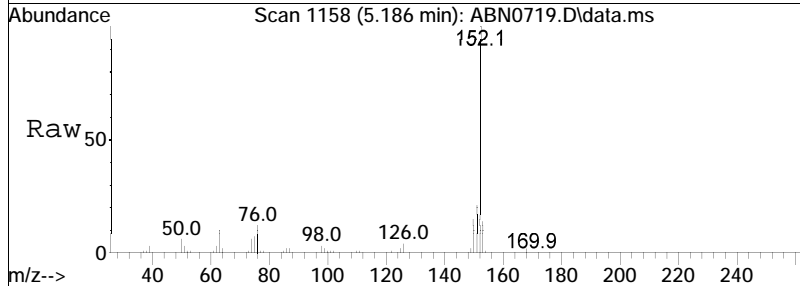
Tgt Ion	Ratio	Lower	Upper
163	100		
194	2.6	2.6	4.0#
164	9.9	8.2	12.4

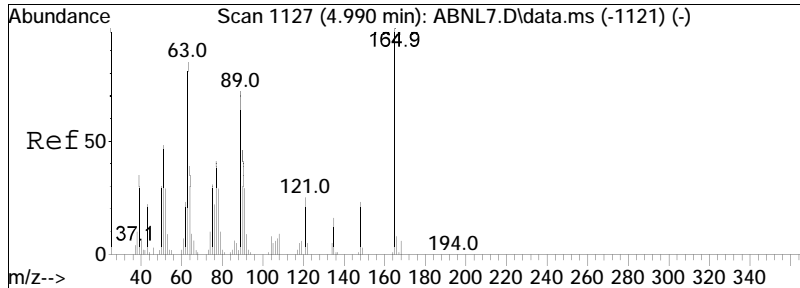




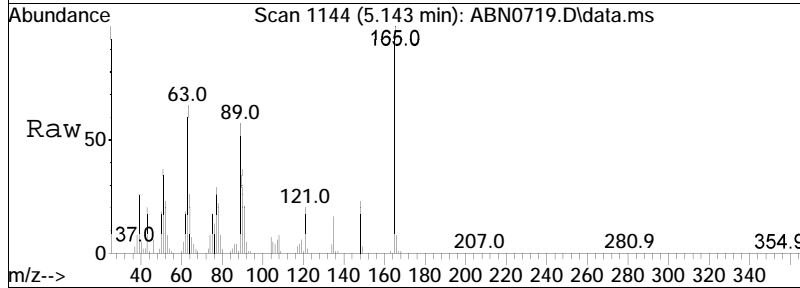
#52
 Acenaphthylene
 Concen: 58.11 ug/ml
 RT: 5.186 min Scan# 1158
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.4	24.6
153	13.4	11.0	16.6

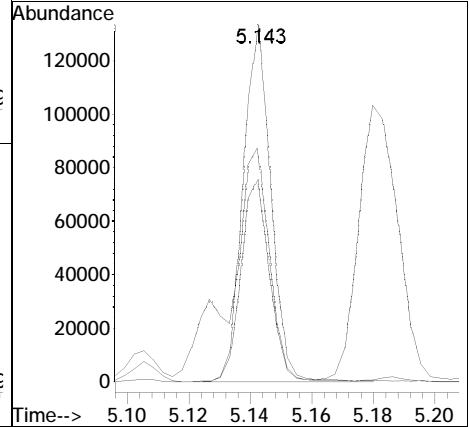
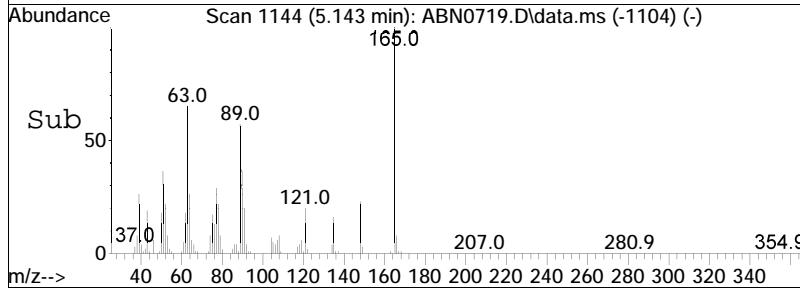


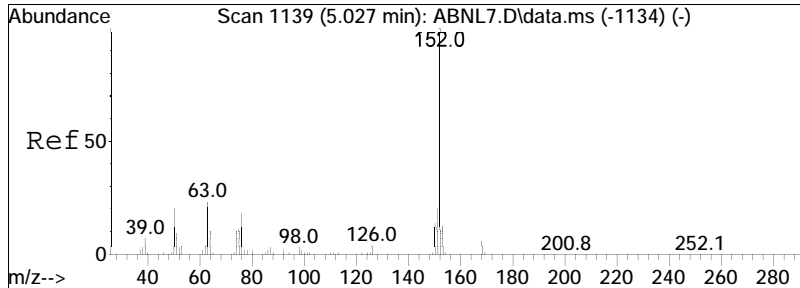


#53
 2,6-Dinitrotoluene
 Concen: 62.98 ug/ml
 RT: 5.143 min Scan# 1144
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am



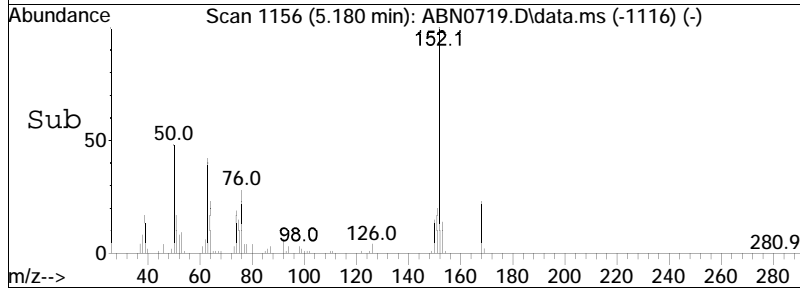
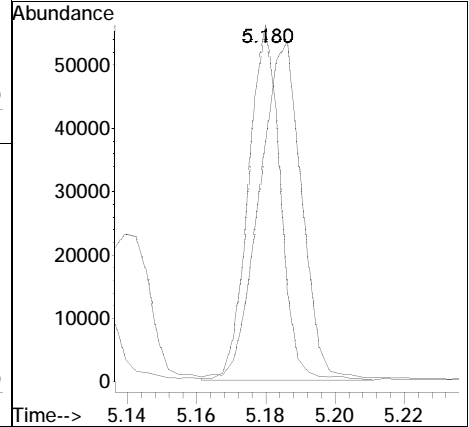
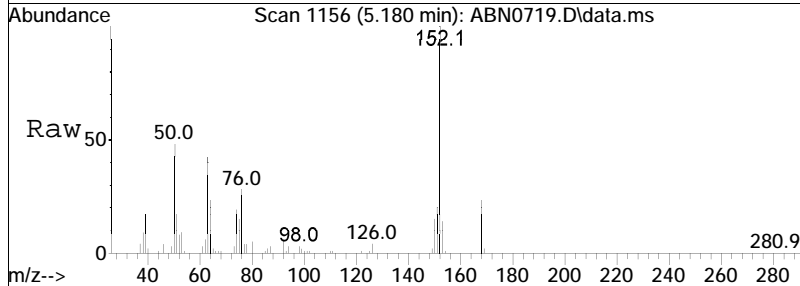
Tgt Ion	Resp	Lower	Upper
165	100		
89	58.4	50.4	75.6
63	89.3	56.9	85.3#

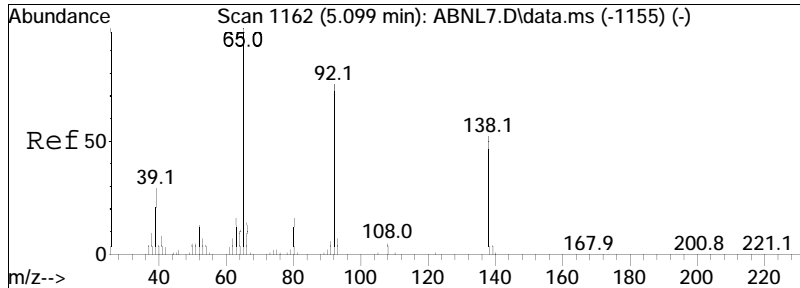




#54
 1,2-Dinitrobenzene
 Concen: 59.48 ug/ml
 RT: 5.180 min Scan# 1156
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

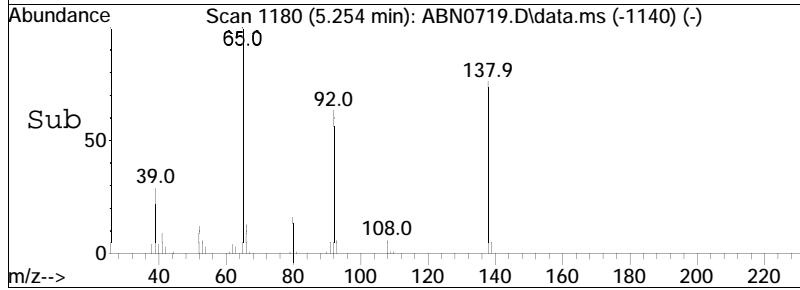
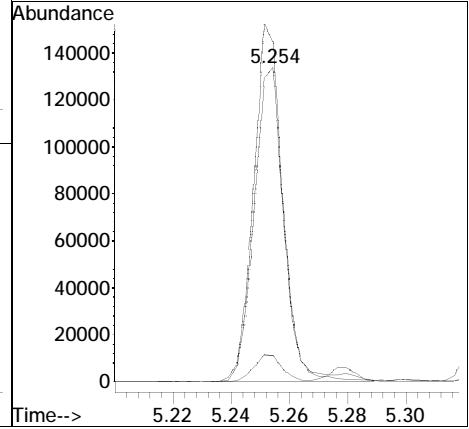
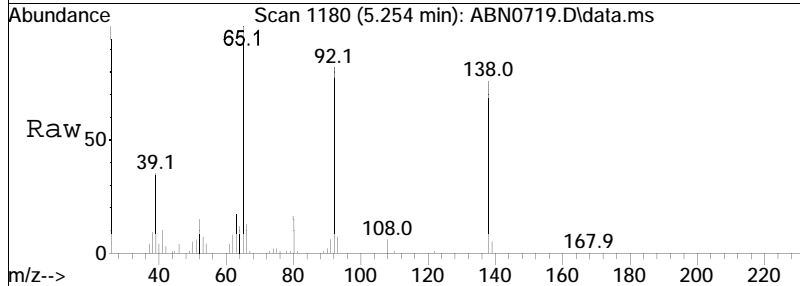
Tgt Ion	Ratio	Lower	Upper
168	100		
75	126.0	105.0	157.6

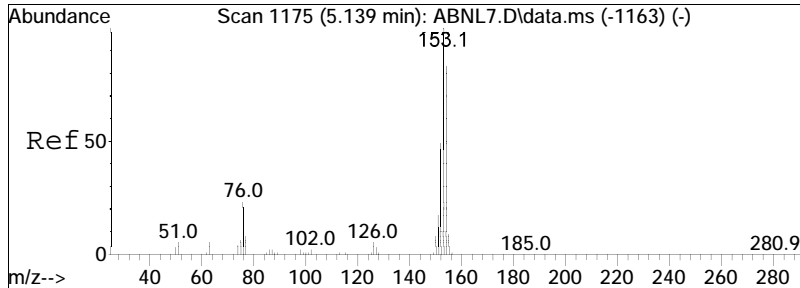




#64
 3-Nitroaniline
 Concen: 61.39 ug/ml
 RT: 5.254 min Scan# 1180
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

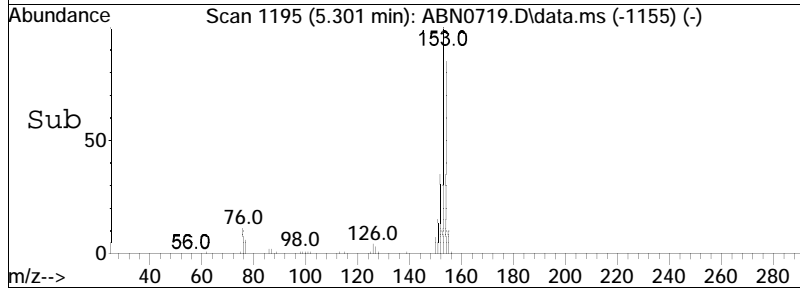
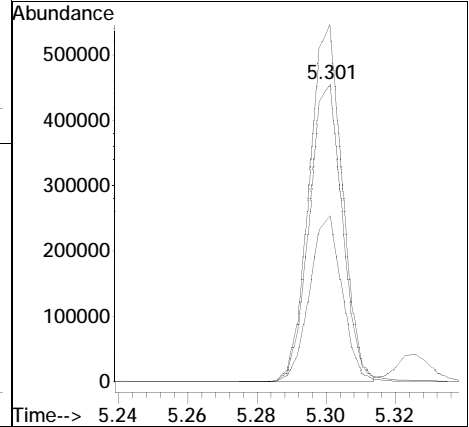
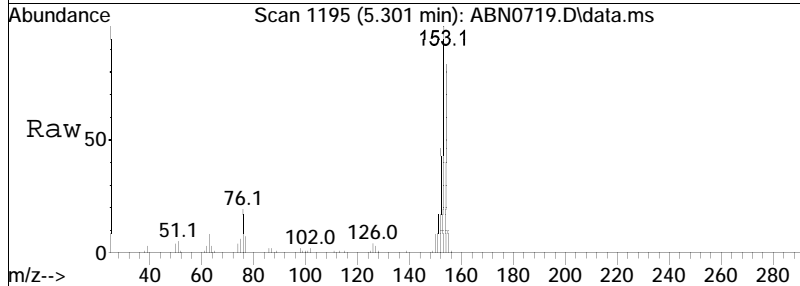
Tgt Ion	Ratio	Lower	Upper
138	100		
92	114.2	95.4	143.2
108	8.6	8.6	12.8#

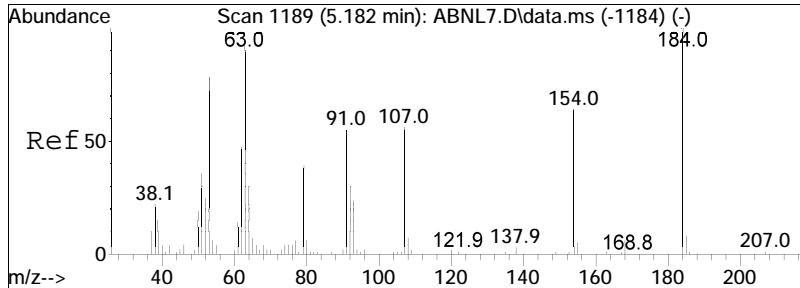




#65
 Acenaphthene
 Concen: 53.38 ug/ml
 RT: 5.301 min Scan# 1195
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

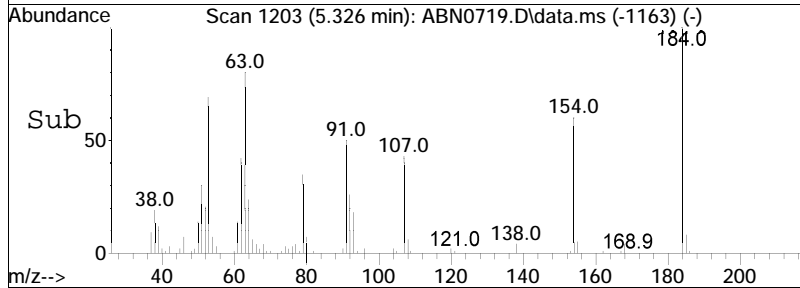
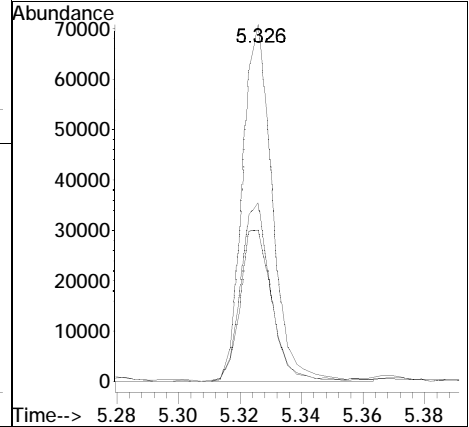
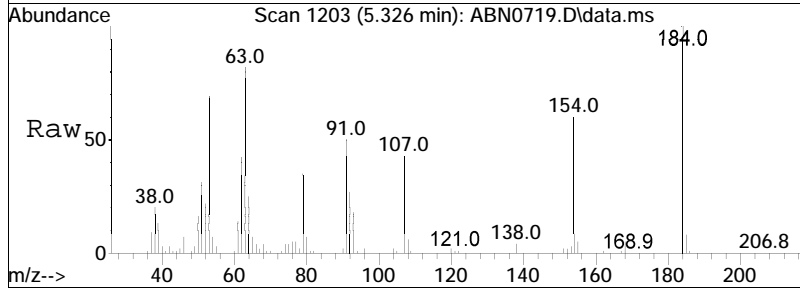
Tgt Ion	Ratio	Lower	Upper
154	100		
153	121.4	91.3	136.9
152	55.9	41.0	61.4

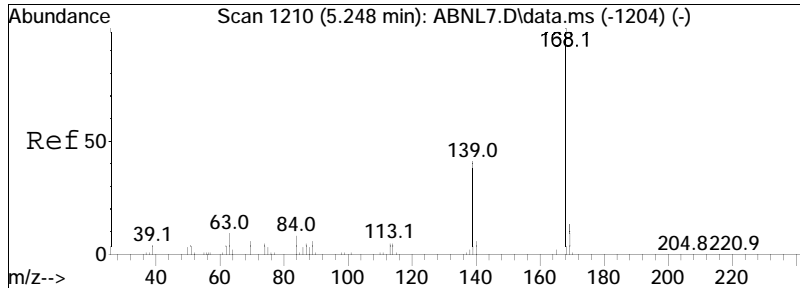




#66
 2,4-Dinitrophenol
 Concen: 46.63 ug/ml
 RT: 5.326 min Scan# 1203
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

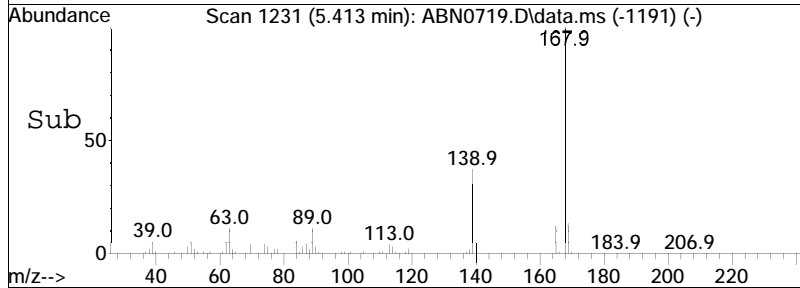
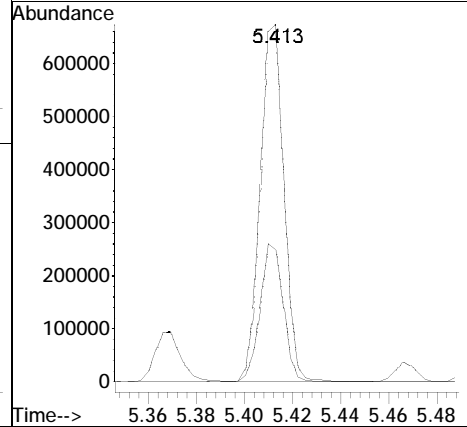
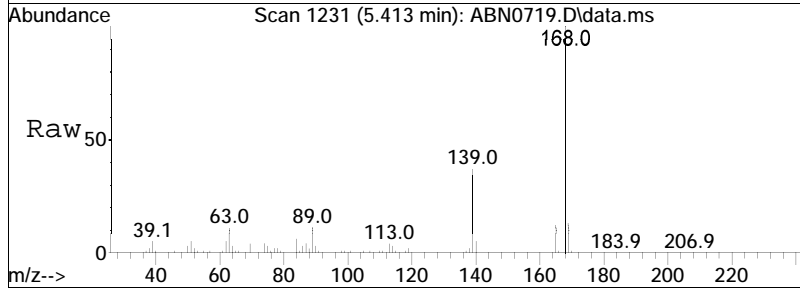
Tgt Ion	Ratio	Lower	Upper
184	100		
107	45.5	41.8	62.6
91	50.6	46.1	69.1

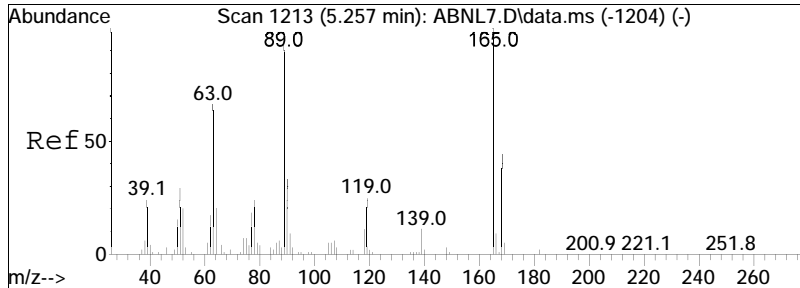




#67
 Dibenzofuran
 Concen: 52.00 ug/ml
 RT: 5.413 min Scan# 1231
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

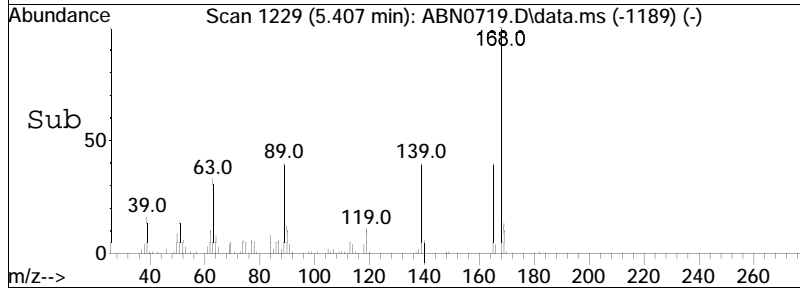
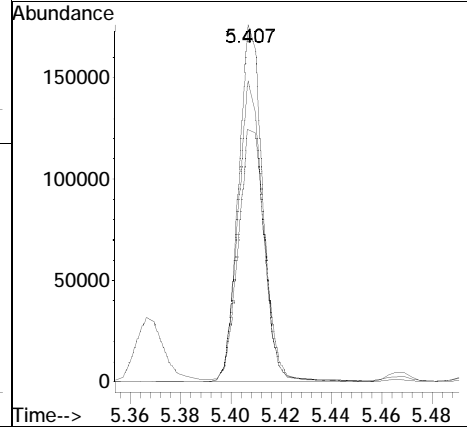
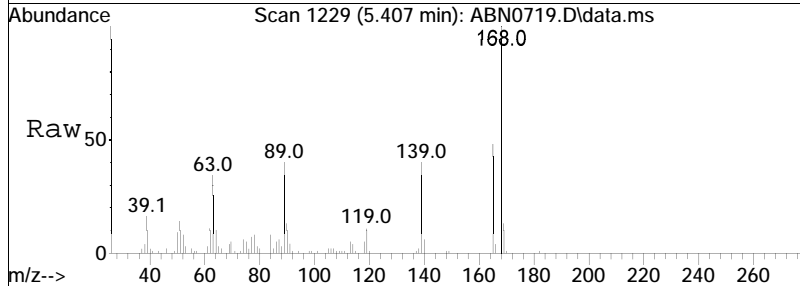
Tgt Ion	Resp	Lower	Upper
168	456645		
168	100		
139	38.2	33.2	49.8

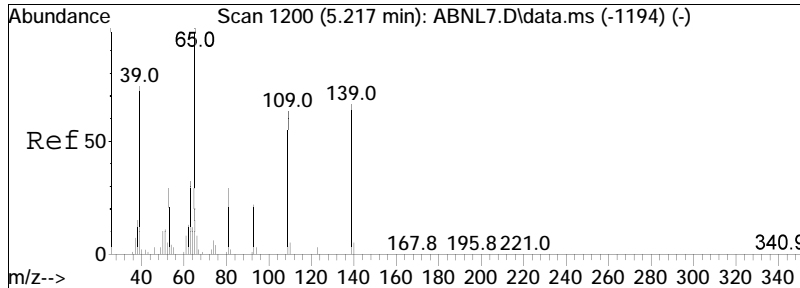




#68
 2,4-Dinitrotoluene
 Concen: 56.82 ug/ml
 RT: 5.407 min Scan# 1229
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

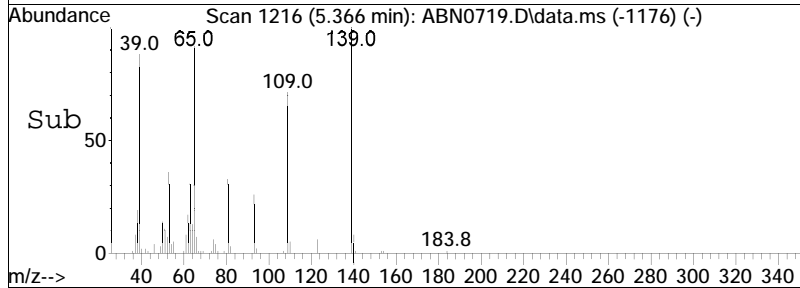
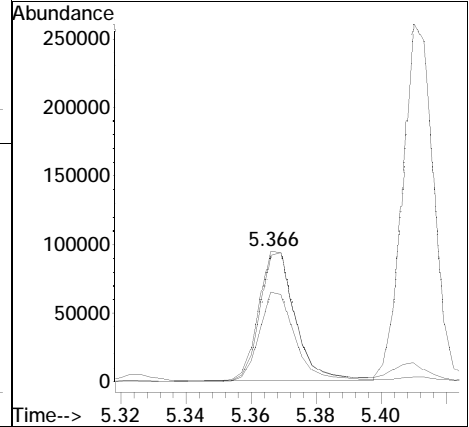
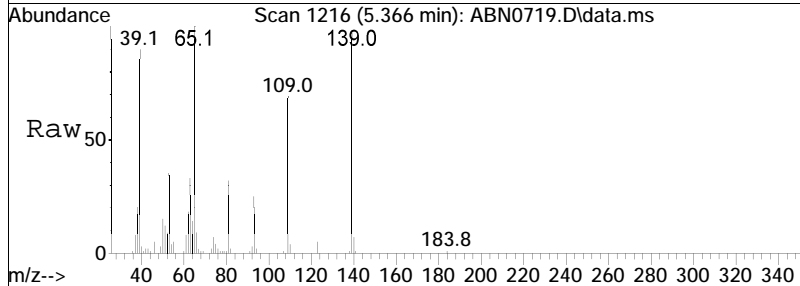
Tgt Ion	Resp	Lower	Upper
165	100		
89	86.2	75.7	113.5
63	77.6	62.6	94.0

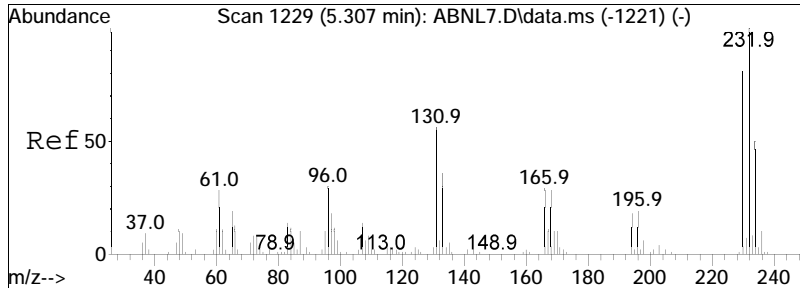




#69
 4-Nitrophenol
 Concen: 54.71 ug/ml
 RT: 5.366 min Scan# 1216
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

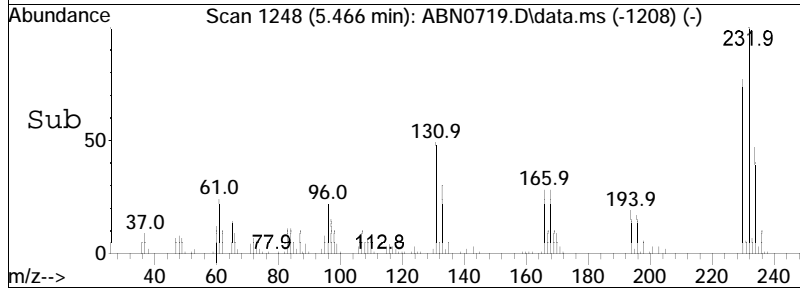
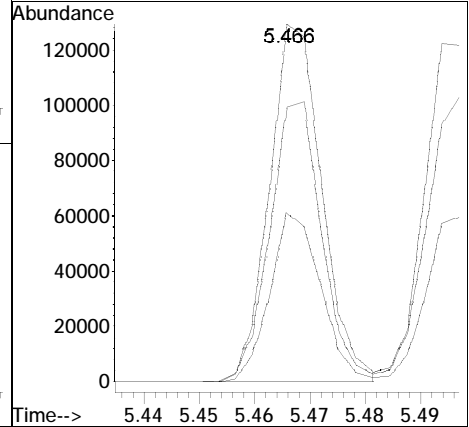
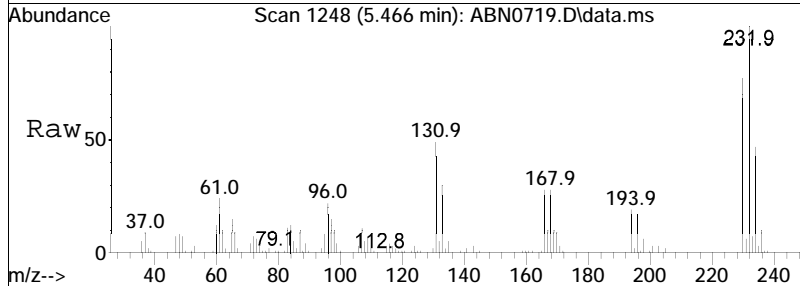
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
65	100		
109	68.1	55.4	83.2
139	97.0	72.9	109.3

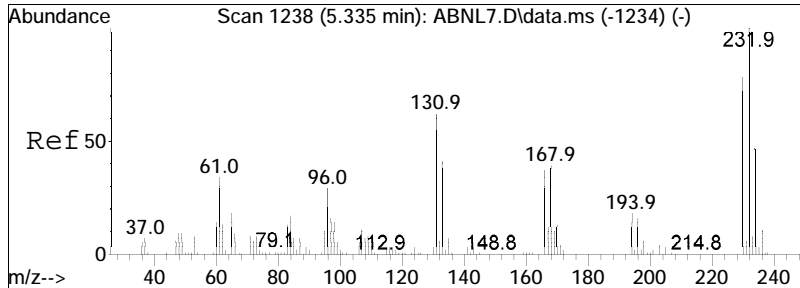




#70
 2,3,5,6-Tetrachlorophenol
 Concen: 49.28 ug/ml
 RT: 5.466 min Scan# 1248
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

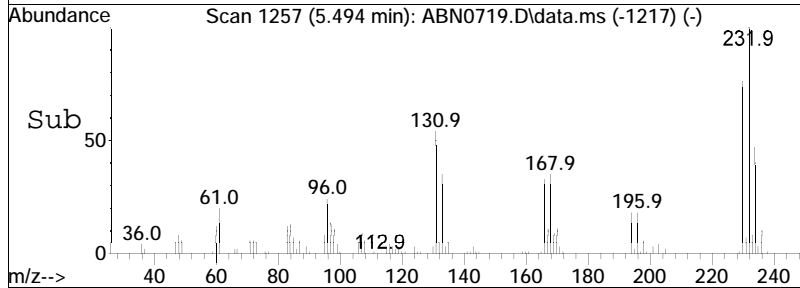
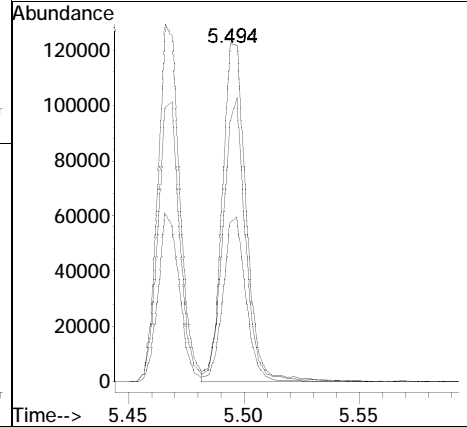
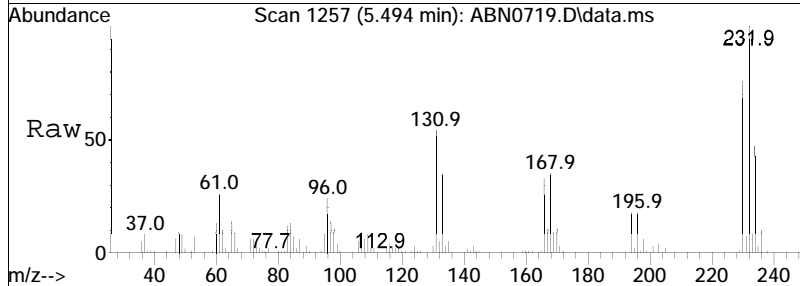
Tgt Ion	Ratio	Lower	Upper
232	100		
230	77.8	65.0	97.6
234	46.1	37.8	56.8

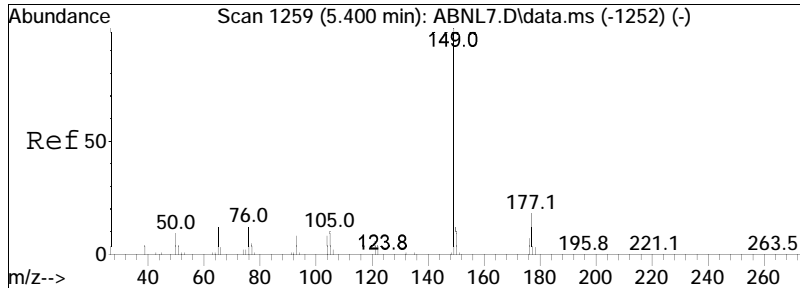




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 49.75 ug/ml
 RT: 5.494 min Scan# 1257
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

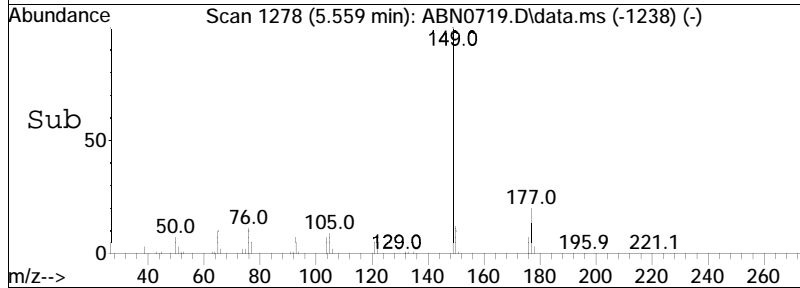
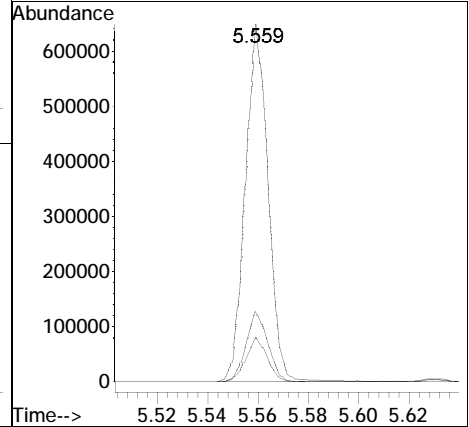
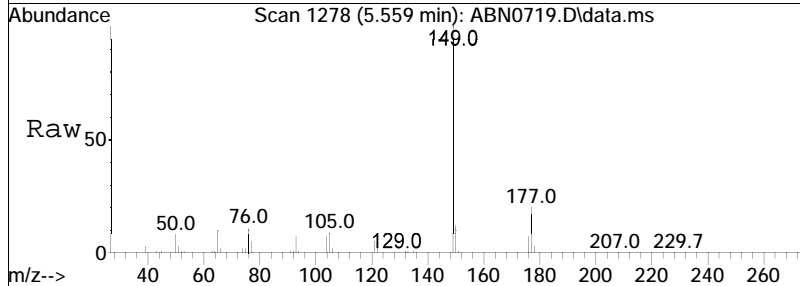
Tgt Ion	Resp	Lower	Upper
232	100		
230	77.9	63.7	95.5
234	46.1	38.4	57.6

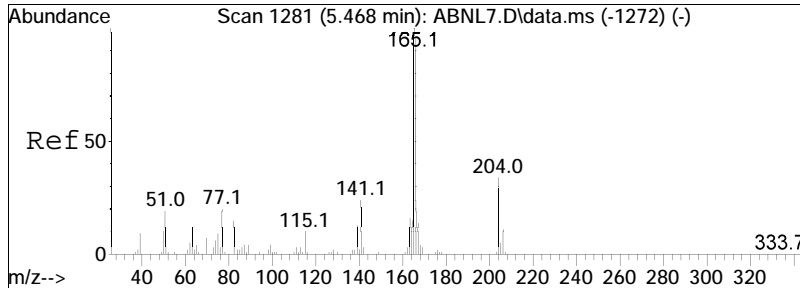




#72
 Diethyl phthalate
 Concen: 56.36 ug/ml
 RT: 5.559 min Scan# 1278
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

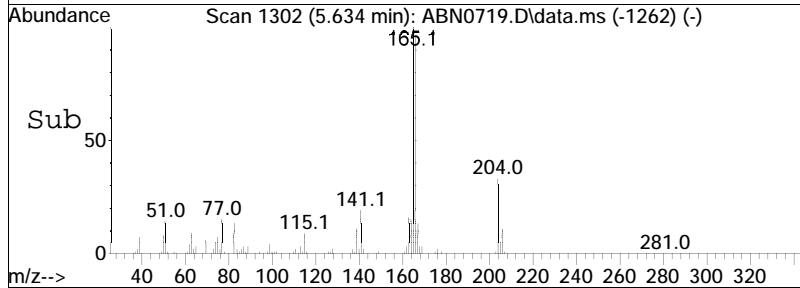
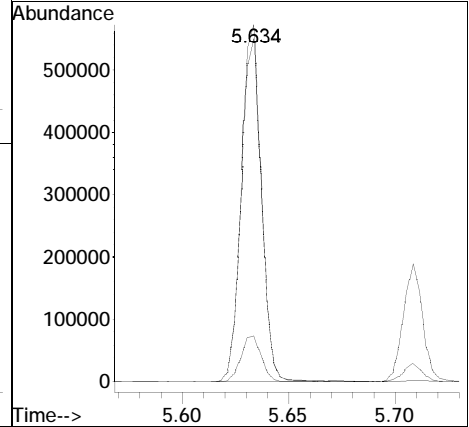
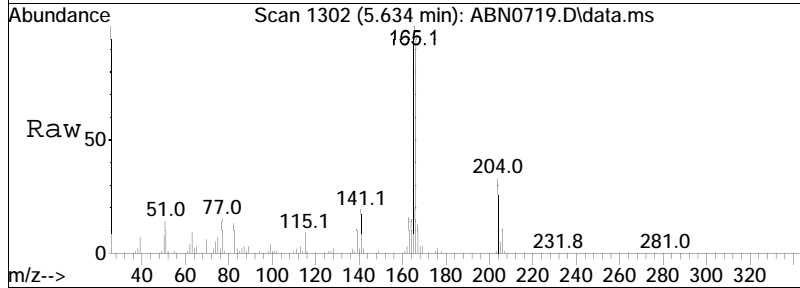
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.2	15.5	23.3
150	11.9	9.5	14.3

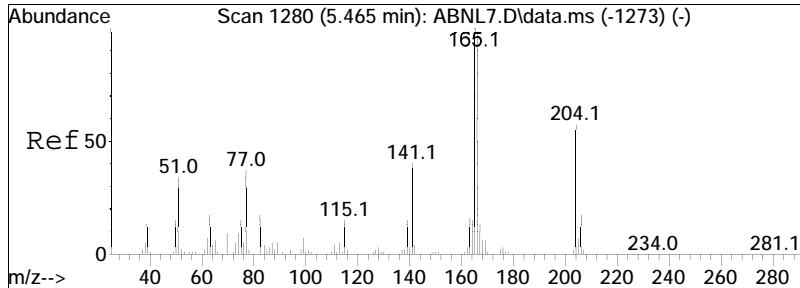




#73
 Fluorene
 Concen: 49.98 ug/ml
 RT: 5.634 min Scan# 1302
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

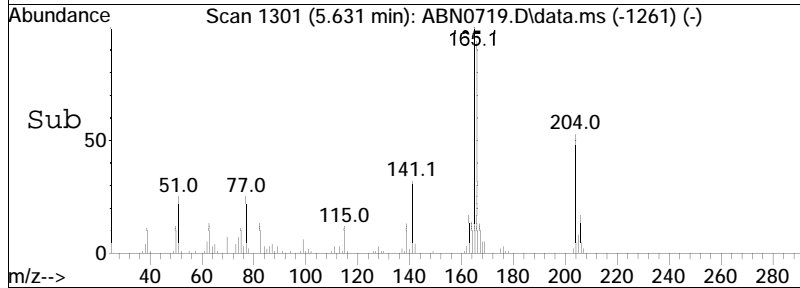
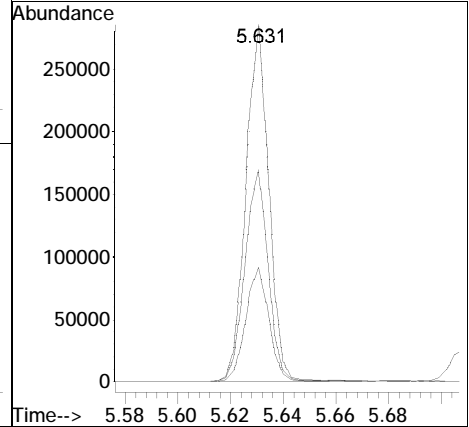
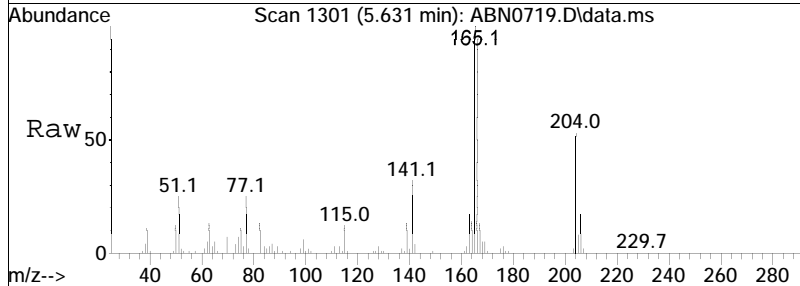
Tgt Ion	Resp	Lower	Upper
166	100		
165	103.5	79.3	118.9
167	13.6	10.6	16.0

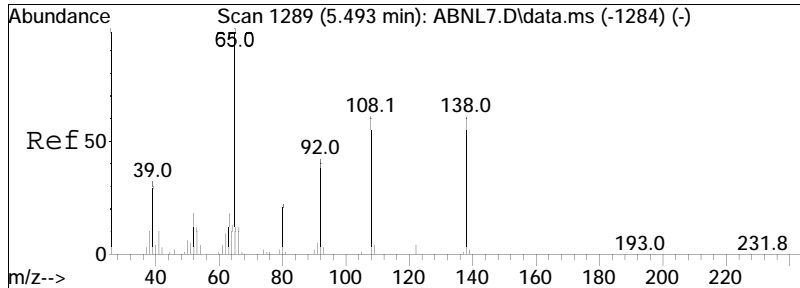




#74
 4-Chlorophenyl phenyl ether
 Concen: 49.06 ug/ml
 RT: 5.631 min Scan# 1301
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

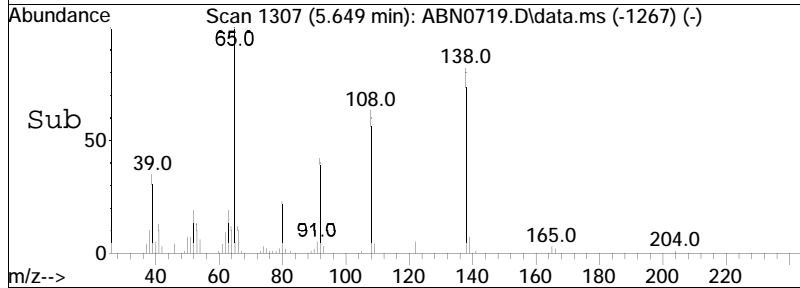
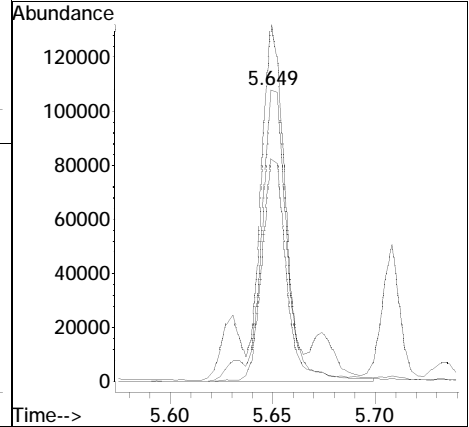
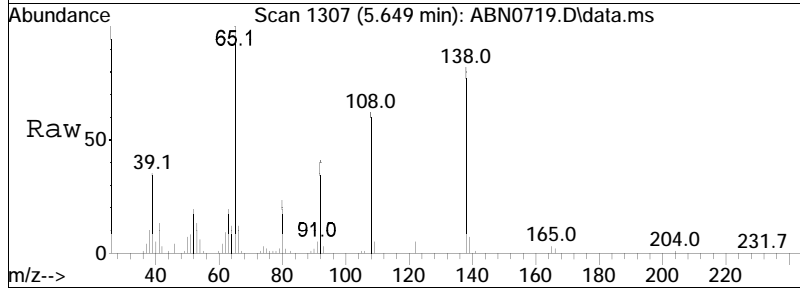
Tgt Ion	Ratio	Lower	Upper
204	100		
206	32.4	26.2	39.4
141	60.7	57.2	85.8

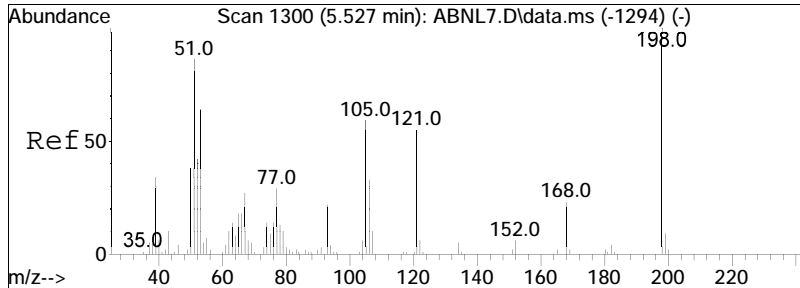




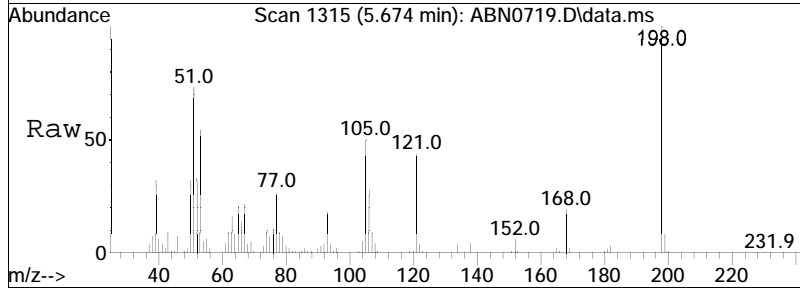
#75
 4-Nitroaniline
 Concen: 56.26 ug/ml
 RT: 5.649 min Scan# 1307
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

Tgt Ion	Resp	Lower	Upper
138	95128		
138	100		
108	72.8	62.7	94.1
65	108.6	107.8	161.6

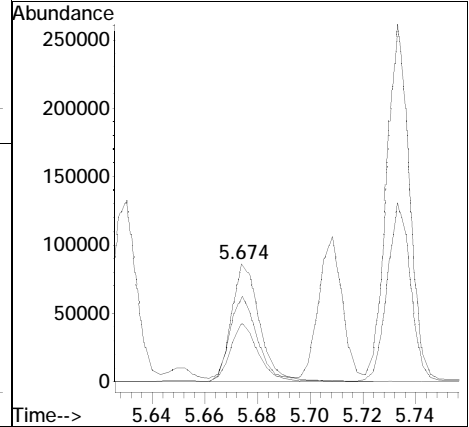
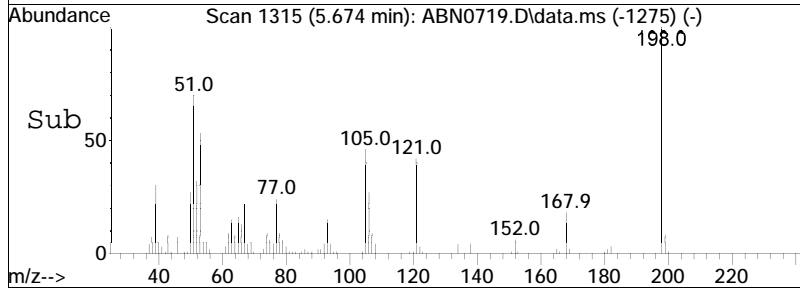


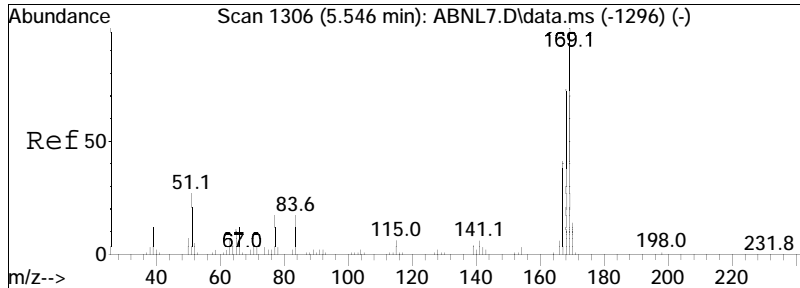


#76
 4,6-Dinitro-o-cresol
 Concen: 58.02 ug/ml
 RT: 5.674 min Scan# 1315
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am



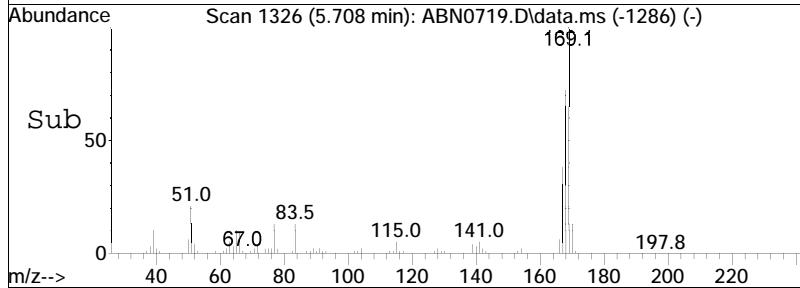
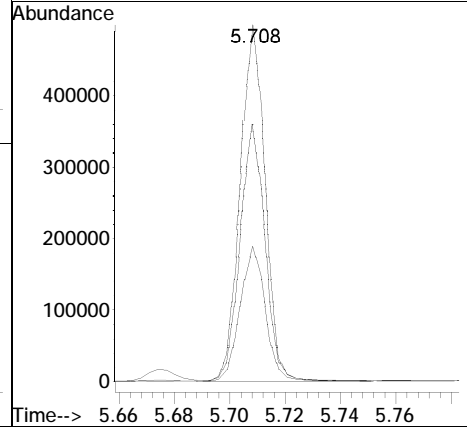
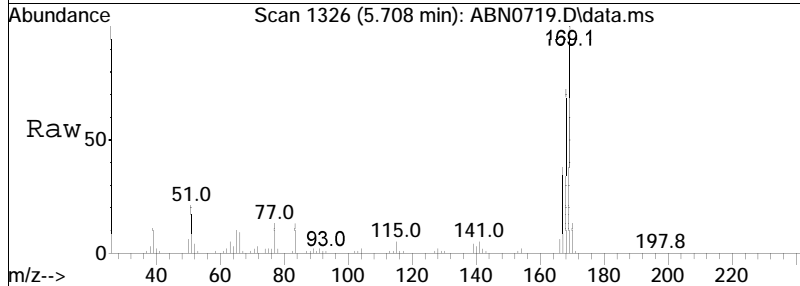
Tgt Ion	Resp	Lower	Upper
198	100		
51	69.5	59.0	88.4
105	47.6	45.0	67.6

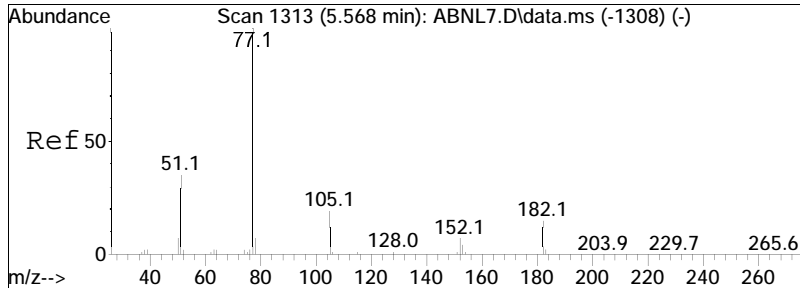




#77
 NDPA/DPA
 Concen: 54.71 ug/ml
 RT: 5.708 min Scan# 1326
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

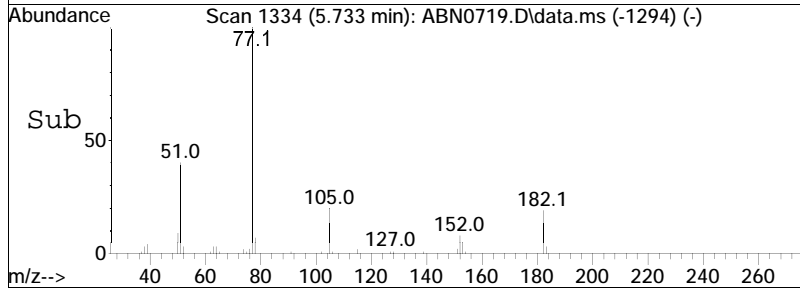
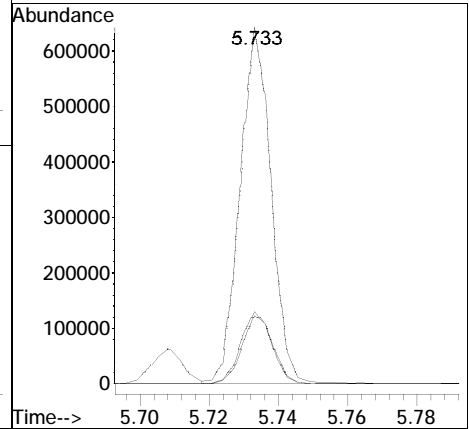
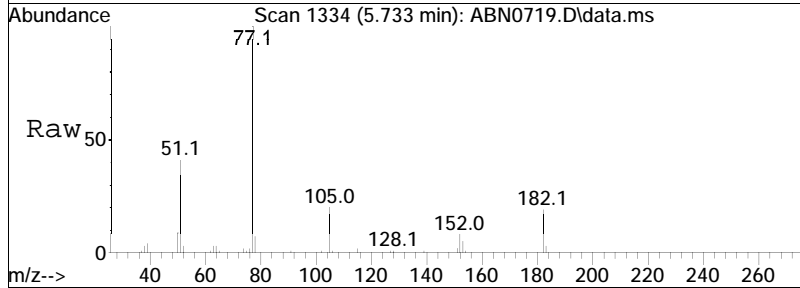
Tgt Ion	Resp	Lower	Upper
169	100		
168	71.7	55.4	83.0
167	38.7	30.3	45.5

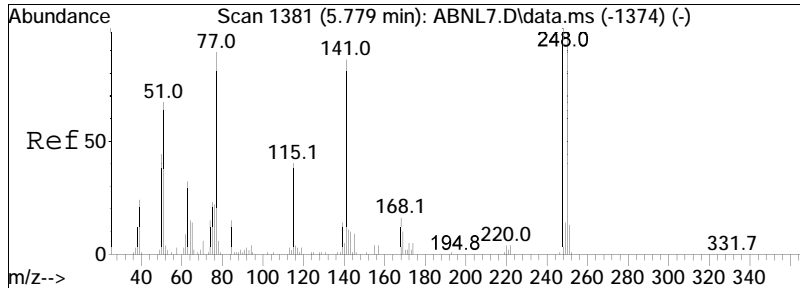




#78
 Azobenzene
 Concen: 56.35 ug/ml
 RT: 5.733 min Scan# 1334
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

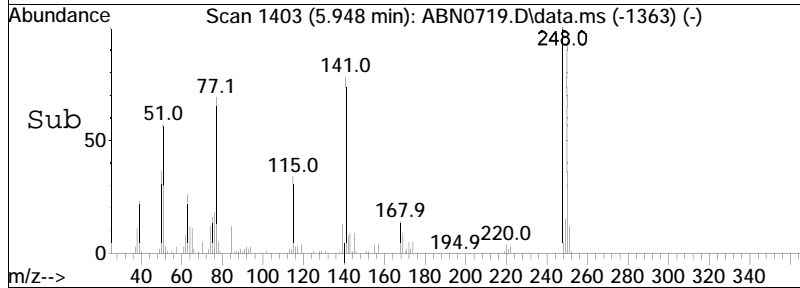
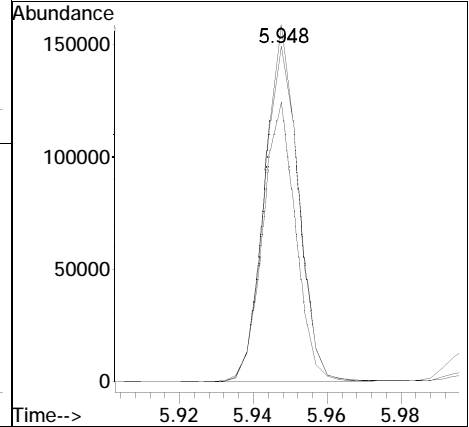
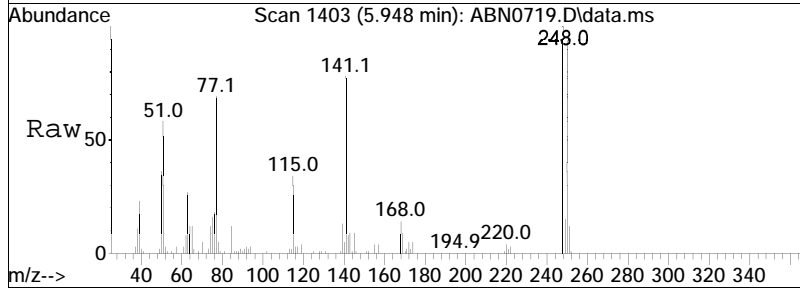
Tgt Ion	Resp	Lower	Upper
77	395161		
182	19.6	16.0	24.0
105	20.4	15.6	23.4

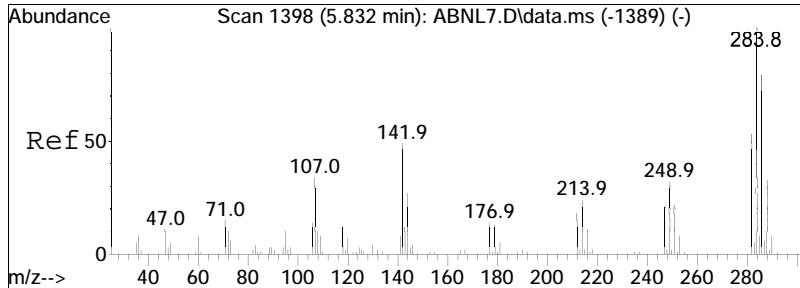




#80
 4-Bromophenyl phenyl ether
 Concen: 47.71 ug/ml
 RT: 5.948 min Scan# 1403
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

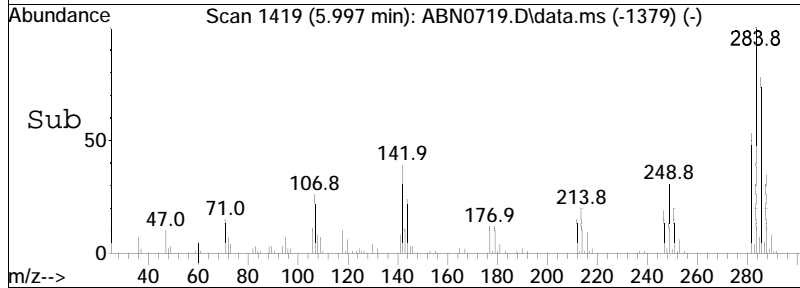
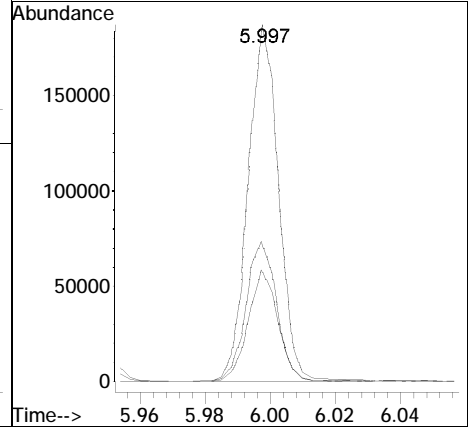
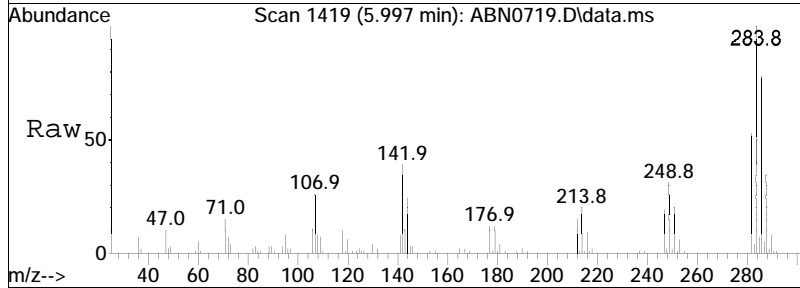
Tgt Ion	Ratio	Lower	Upper
248	100		
141	77.7	76.8	115.2
250	97.4	79.7	119.5

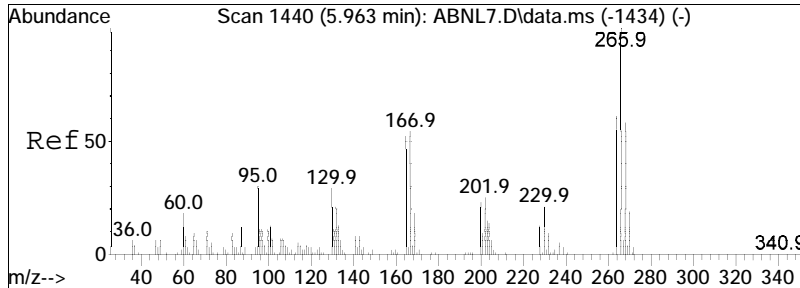




#81
 Hexachlorobenzene
 Concen: 47.30 ug/ml
 RT: 5.997 min Scan# 1419
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

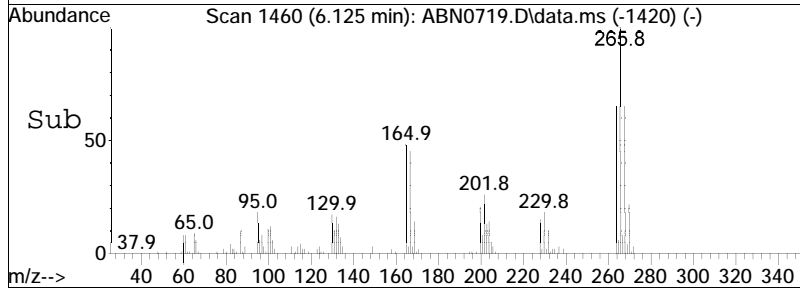
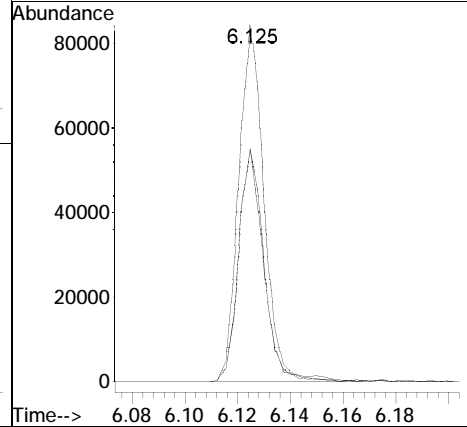
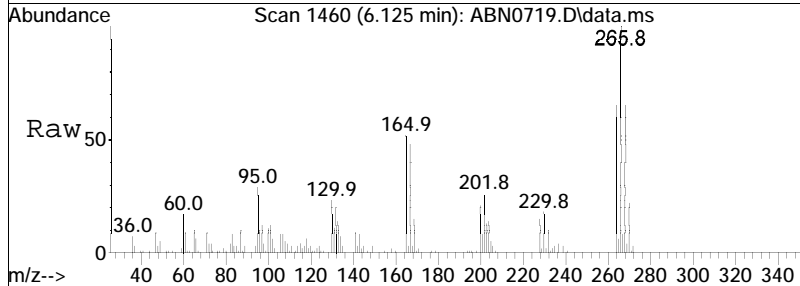
Tgt Ion	Resp	Lower	Upper
284	100		
142	39.9	35.8	53.6
249	30.6	24.7	37.1

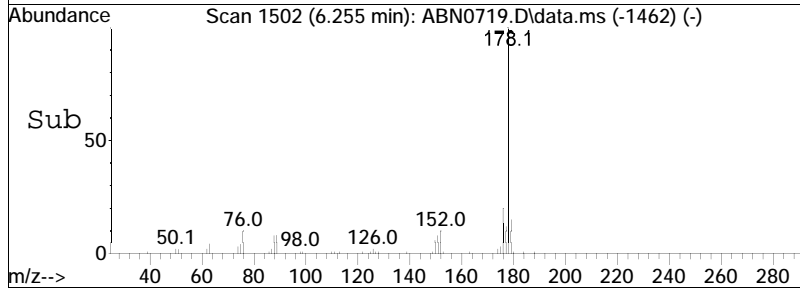
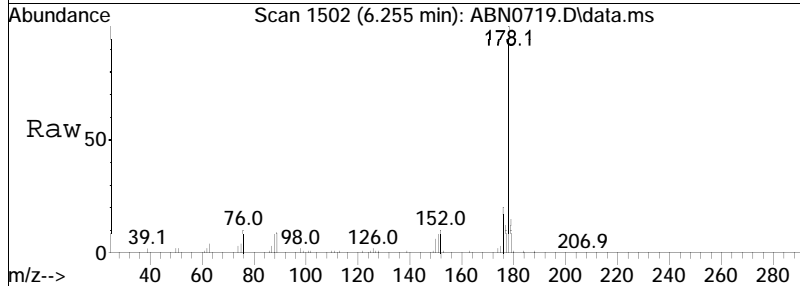
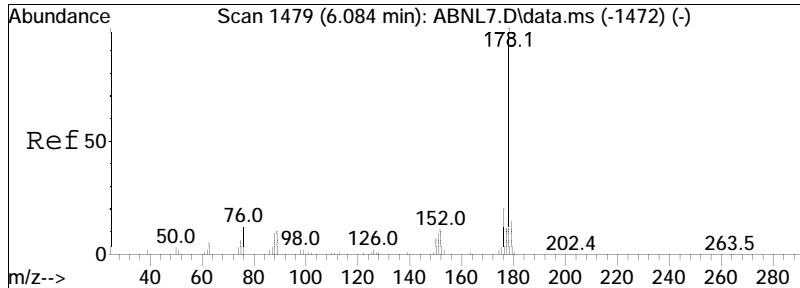




#82
 Pentachlorophenol
 Concen: 35.91 ug/ml
 RT: 6.125 min Scan# 1460
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

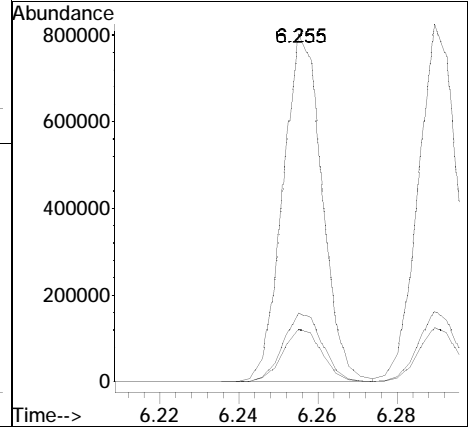
Tgt Ion	Resp	Lower	Upper
266	100		
264	63.2	51.8	77.6
268	65.6	49.8	74.8

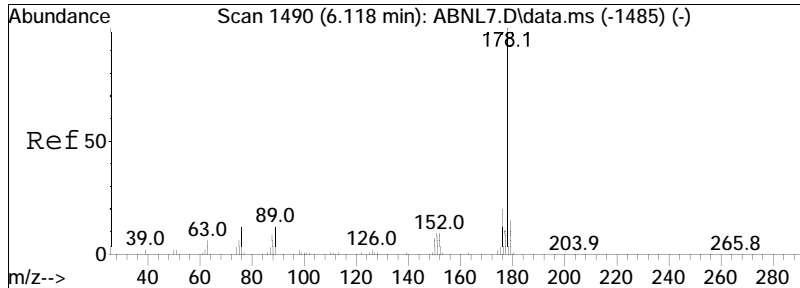




#89
 Phenanthrene
 Concen: 53.06 ug/ml
 RT: 6.255 min Scan# 1502
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

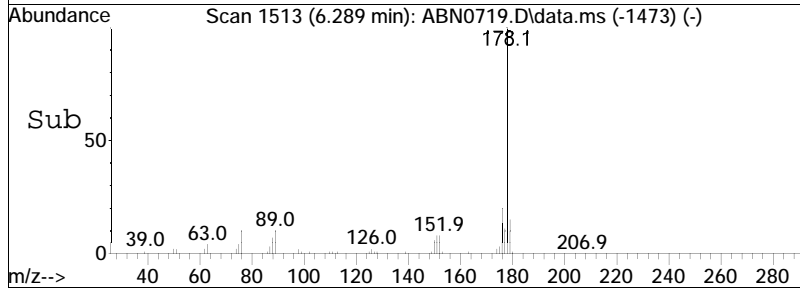
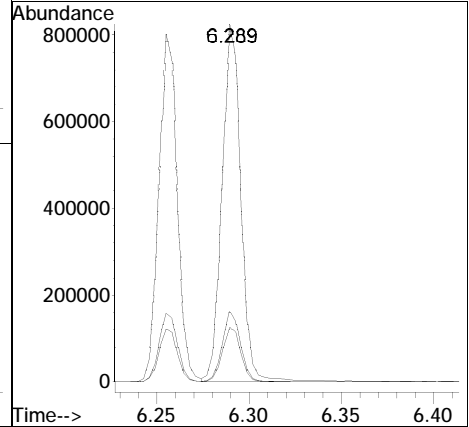
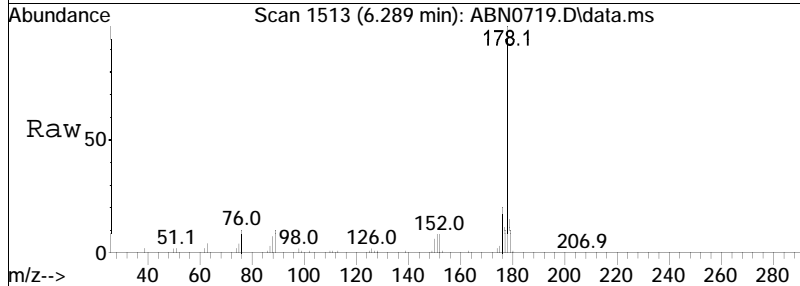
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.2
176	19.8	15.4	23.2

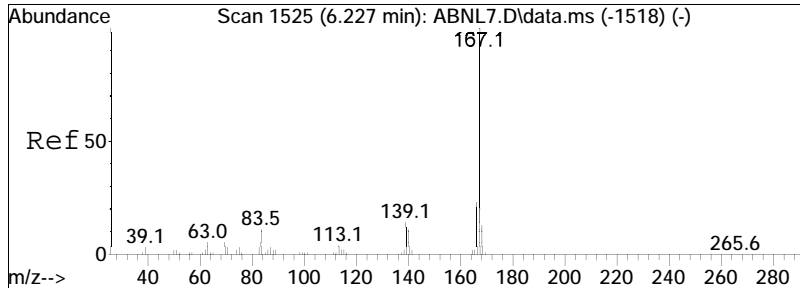




#90
 Anthracene
 Concen: 55.46 ug/ml
 RT: 6.289 min Scan# 1513
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

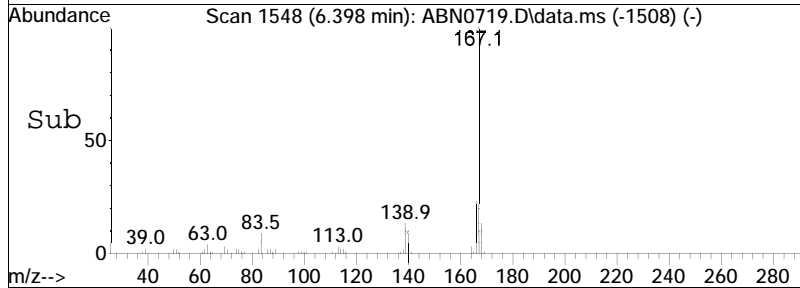
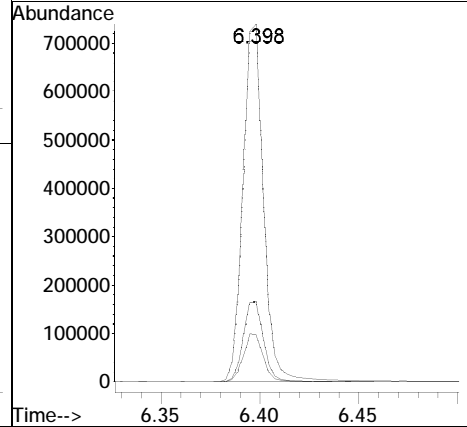
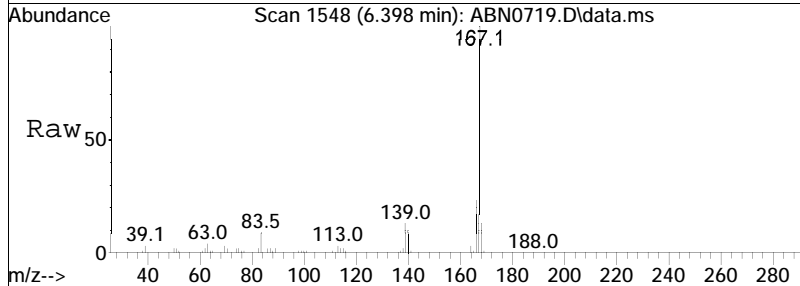
Tgt Ion	Ratio	Lower	Upper
178	100		
179	14.7	12.1	18.1
176	19.1	14.8	22.2

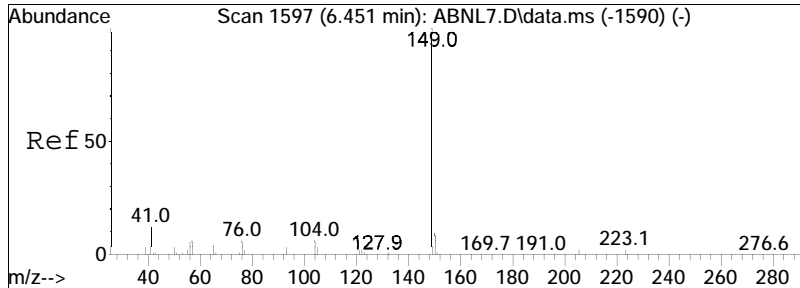




#91
 Carbazole
 Concen: 57.52 ug/ml
 RT: 6.398 min Scan# 1548
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

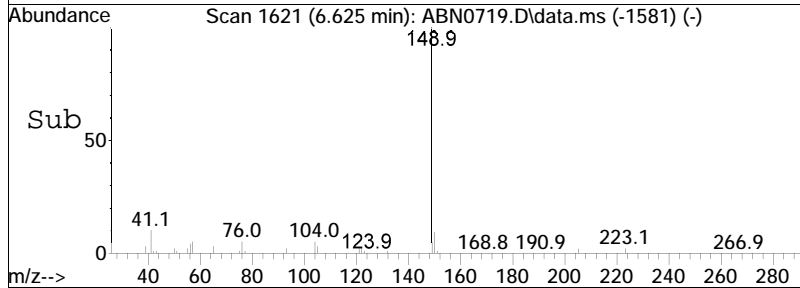
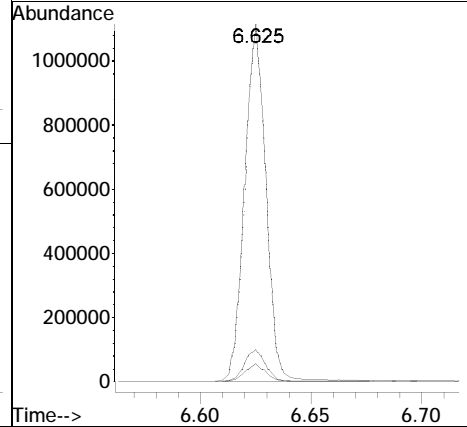
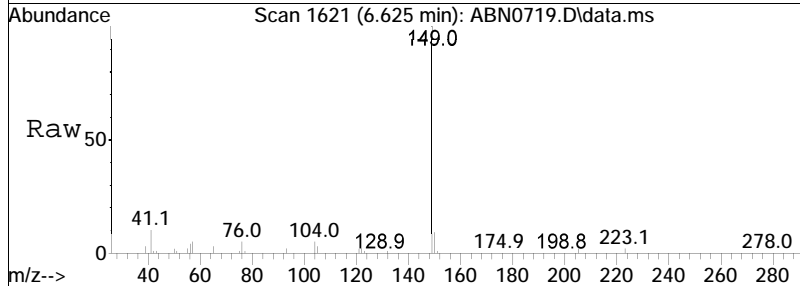
Tgt Ion	Resp	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	22.6	17.7	26.5

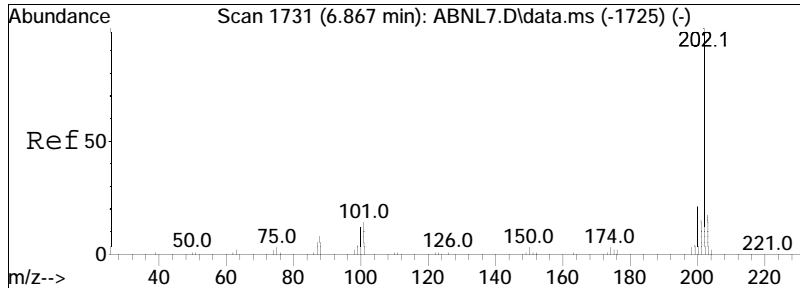




#92
 Di-n-butylphthalate
 Concen: 63.42 ug/ml
 RT: 6.625 min Scan# 1621
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

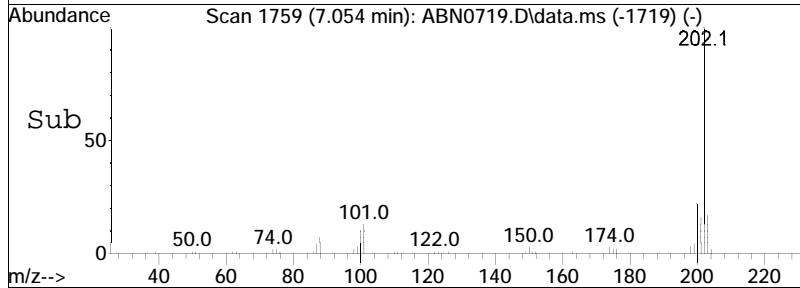
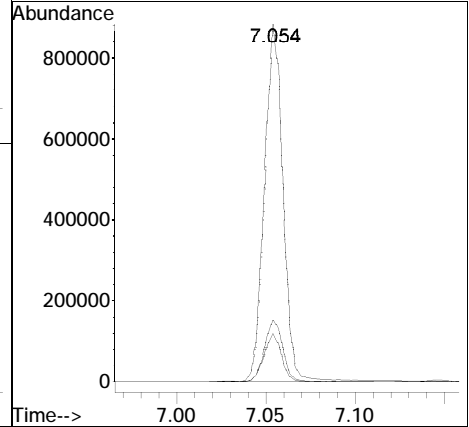
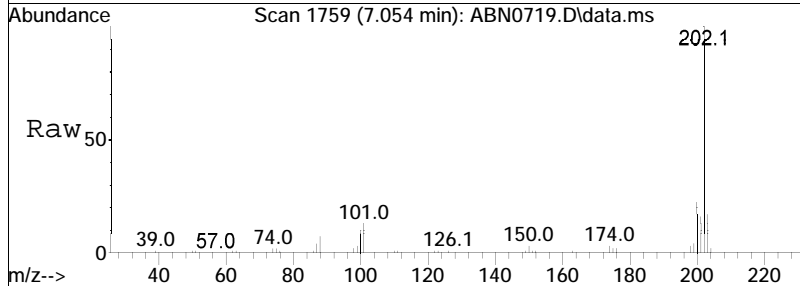
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.4	11.0
104	4.8	4.2	6.2

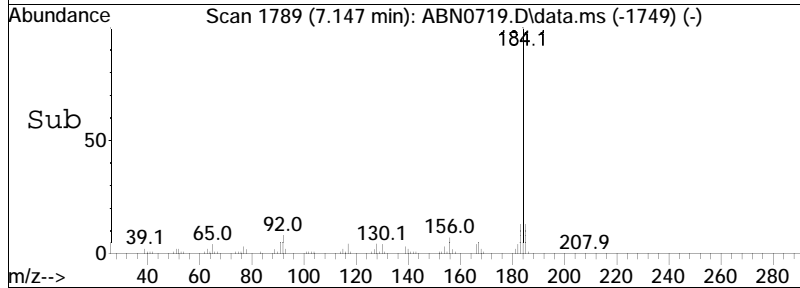
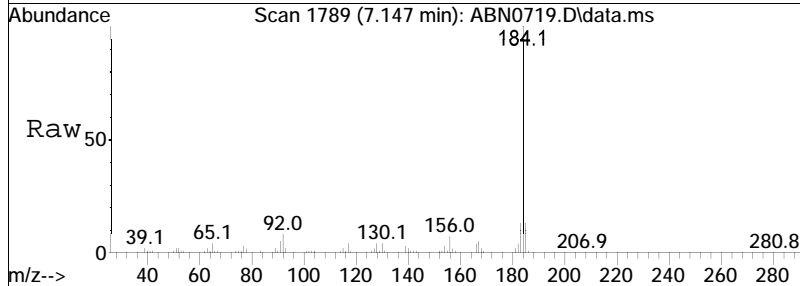
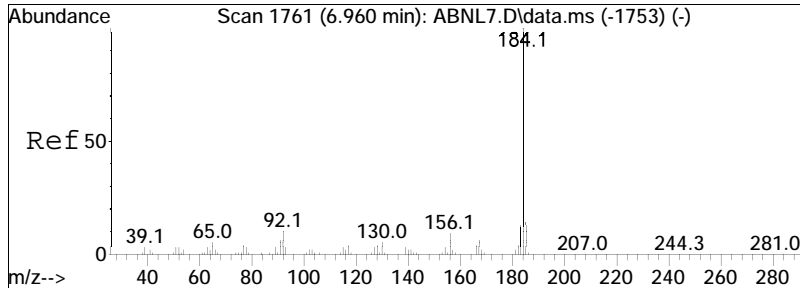




#93
 Fluoranthene
 Concen: 52.38 ug/ml
 RT: 7.054 min Scan# 1759
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

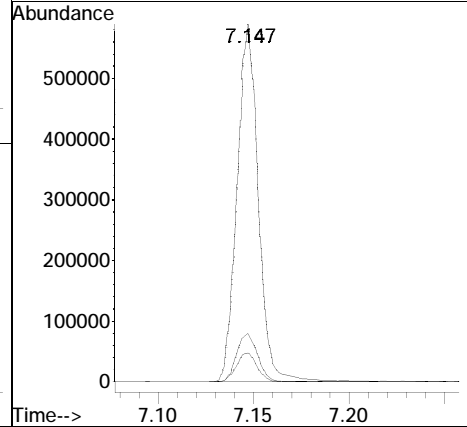
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.8	11.4	17.0
203	17.2	13.9	20.9

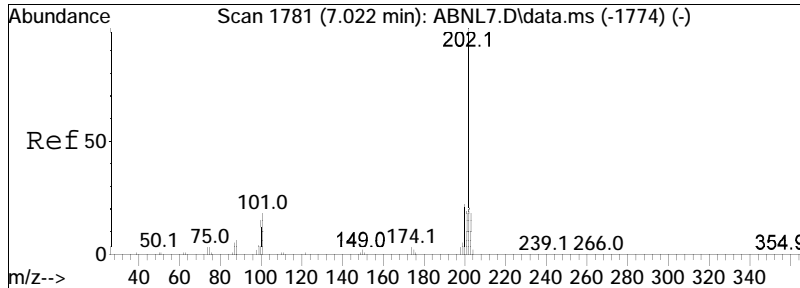




#94
 Benzidine
 Concen: 62.63 ug/ml
 RT: 7.147 min Scan# 1789
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

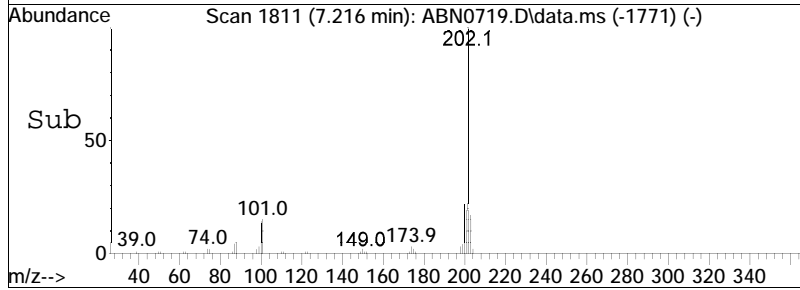
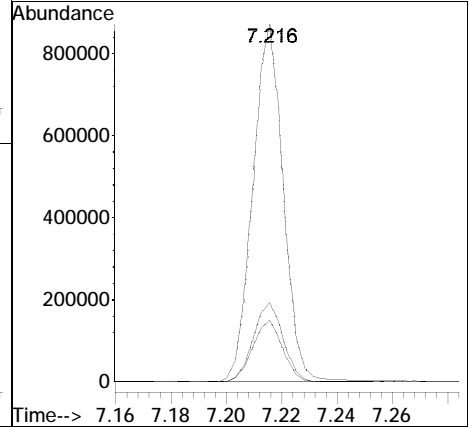
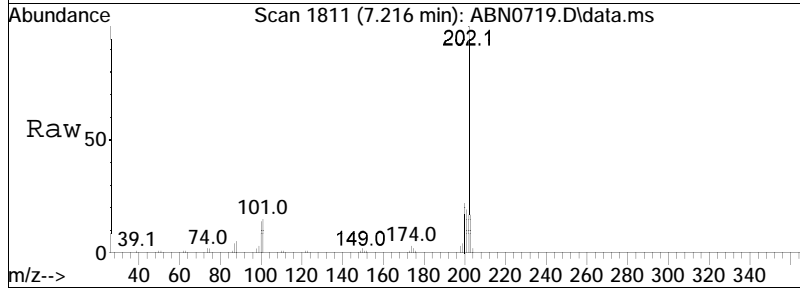
Tgt Ion	Ratio	Lower	Upper
184	100		
92	8.2	7.6	11.4
185	13.8	11.5	17.3

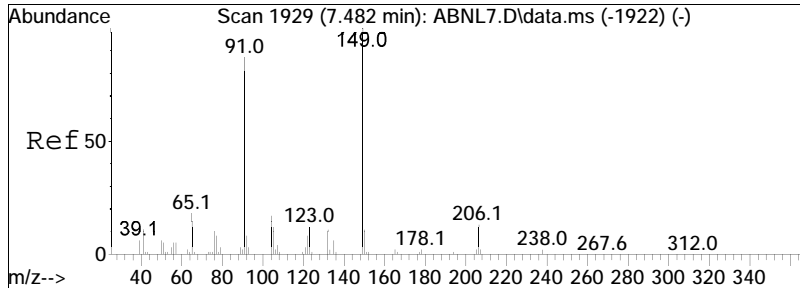




#95
 Pyrene
 Concen: 52.32 ug/ml
 RT: 7.216 min Scan# 1811
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

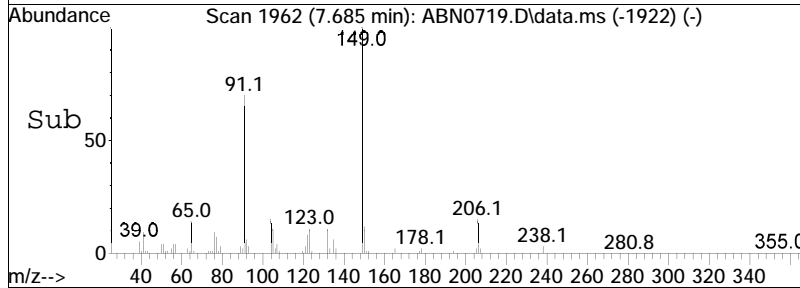
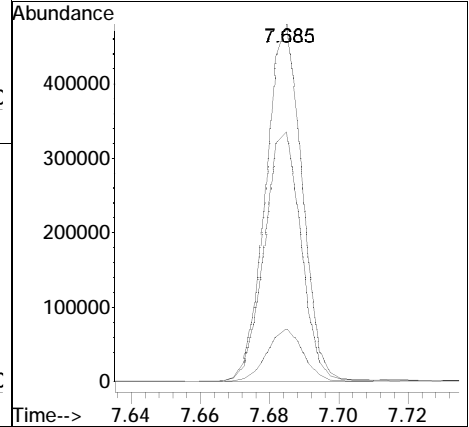
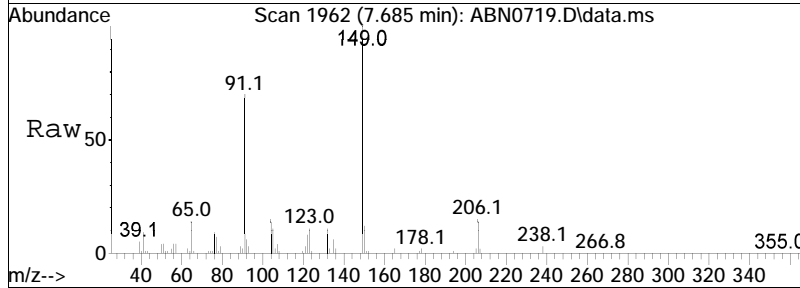
Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.2	17.0	25.4
203	17.4	14.2	21.2

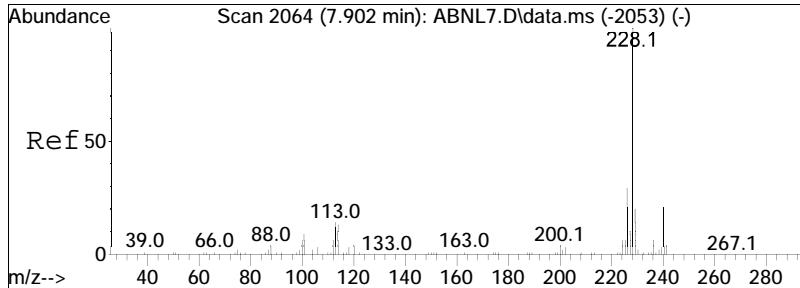




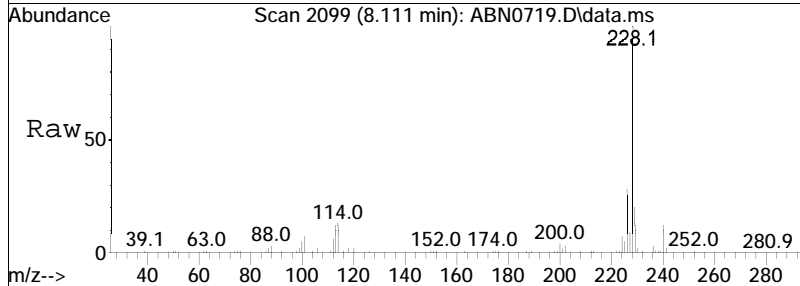
#97
 Butyl benzyl phthalate
 Concen: 63.71 ug/ml
 RT: 7.685 min Scan# 1962
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

Tgt Ion	Ratio	Lower	Upper
149	100		
91	71.2	61.2	91.8
206	14.8	12.5	18.7

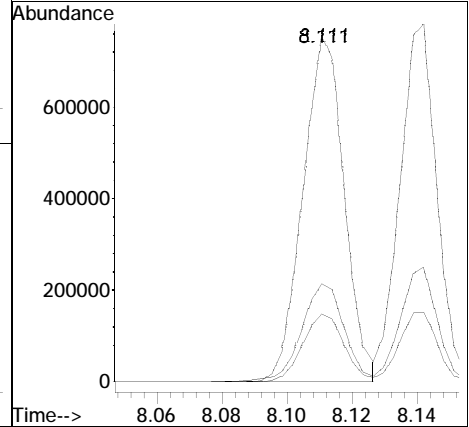
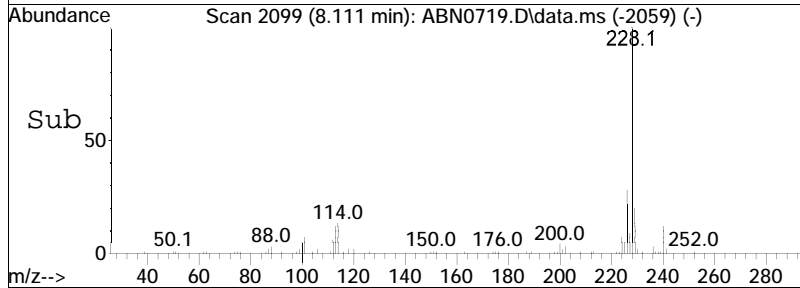


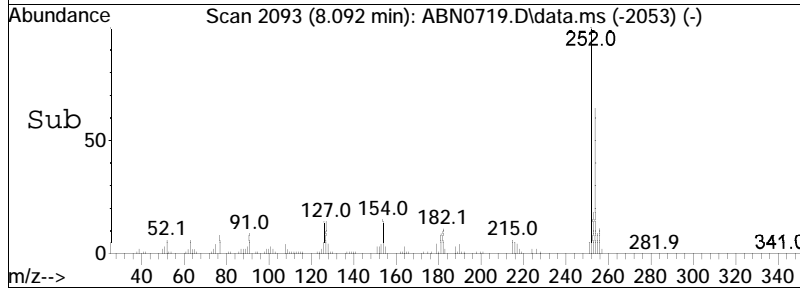
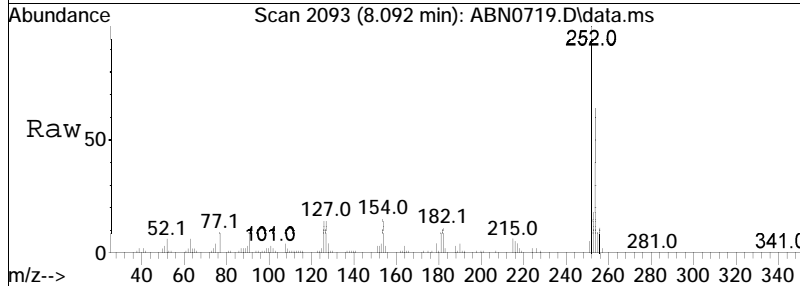
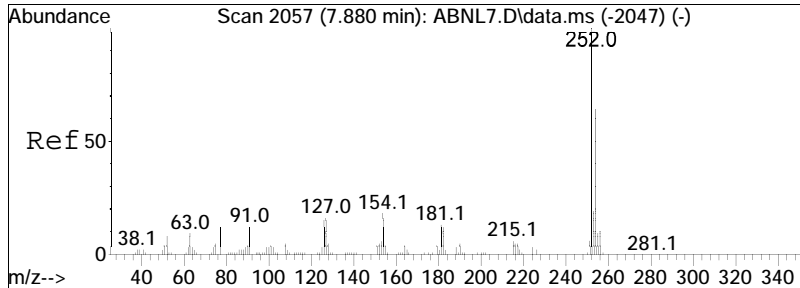


#105
 Benzo(a)anthracene
 Concen: 54.23 ug/ml
 RT: 8.111 min Scan# 2099
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am



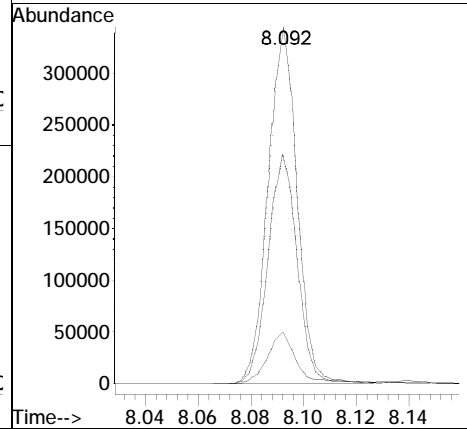
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.2	33.2
229	19.6	15.6	23.4

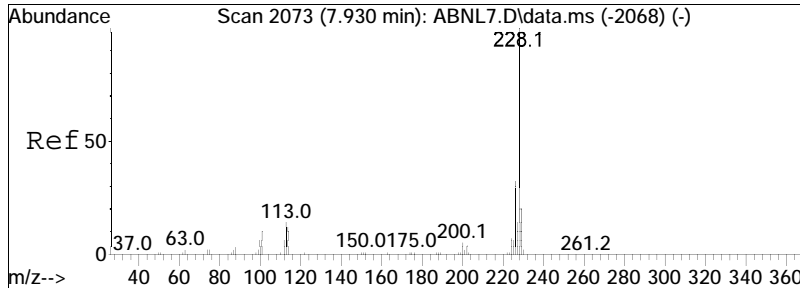




#106
 3,3'-Dichlorobenzidine
 Concen: 60.99 ug/ml
 RT: 8.092 min Scan# 2093
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

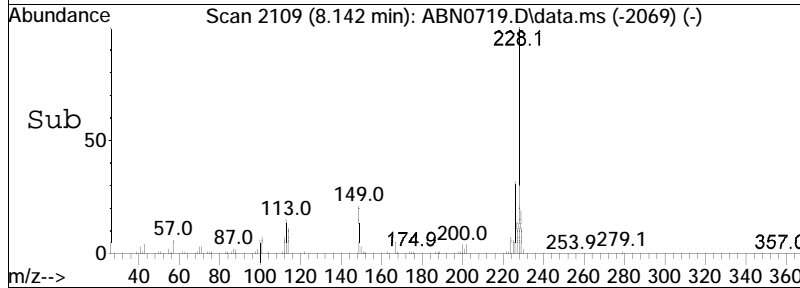
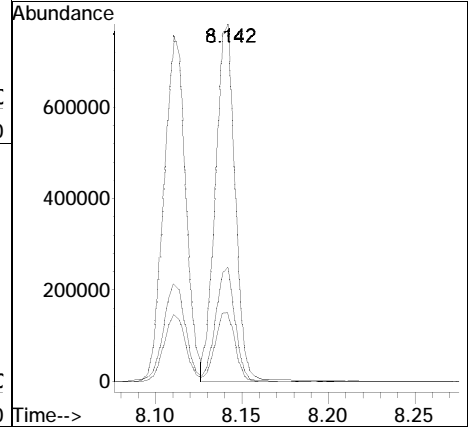
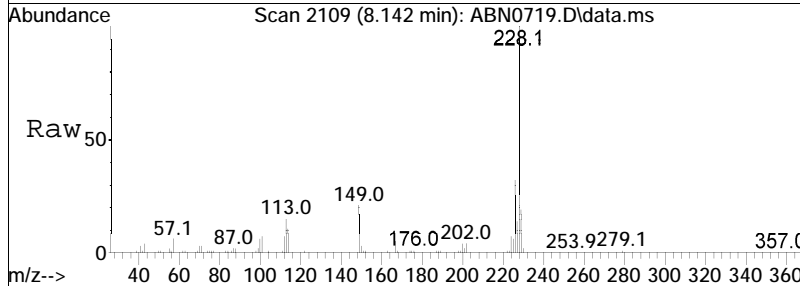
Tgt Ion	Ratio	Lower	Upper
252	100		
126	15.1	13.8	20.6
254	65.3	53.0	79.6

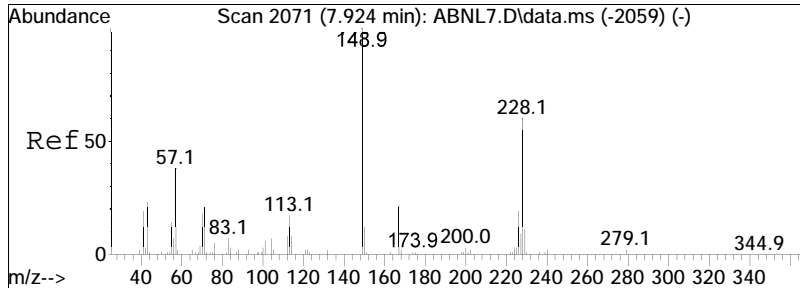




#107
 Chrysene
 Concen: 51.44 ug/ml
 RT: 8.142 min Scan# 2109
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

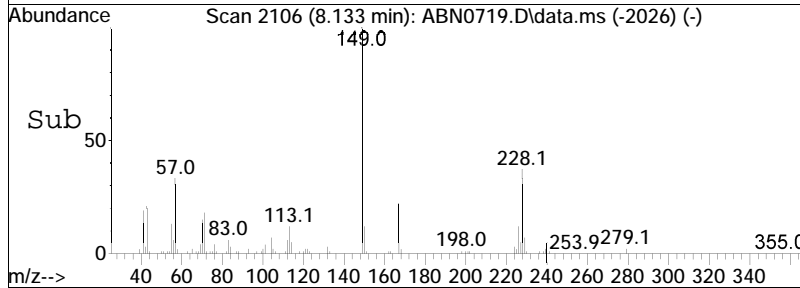
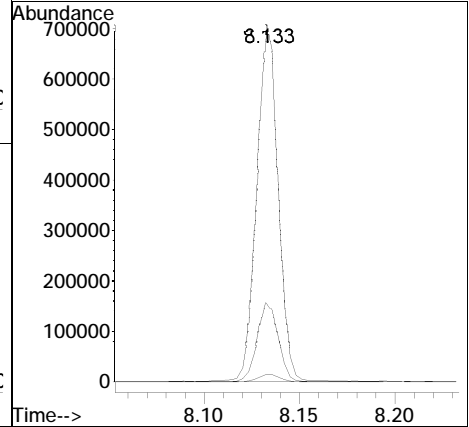
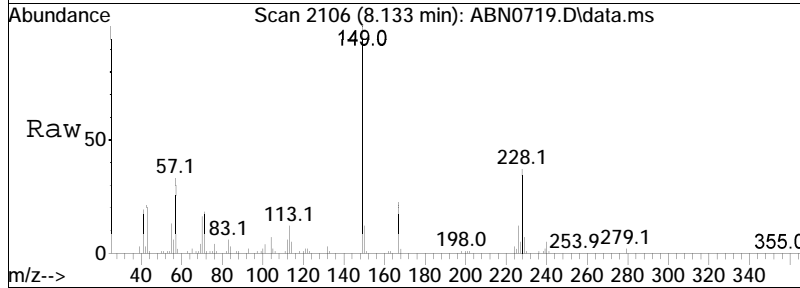
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.6	37.0
229	19.6	15.8	23.6

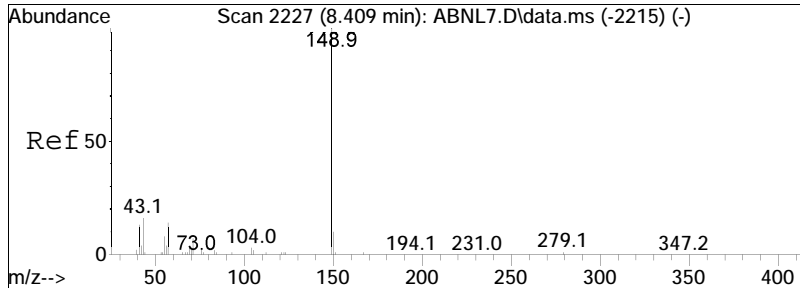




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 55.85 ug/ml
 RT: 8.133 min Scan# 2106
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

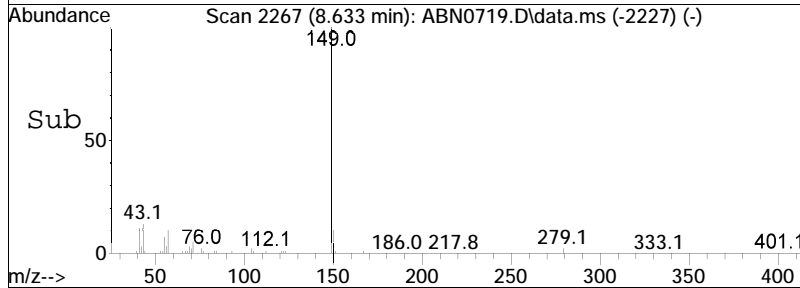
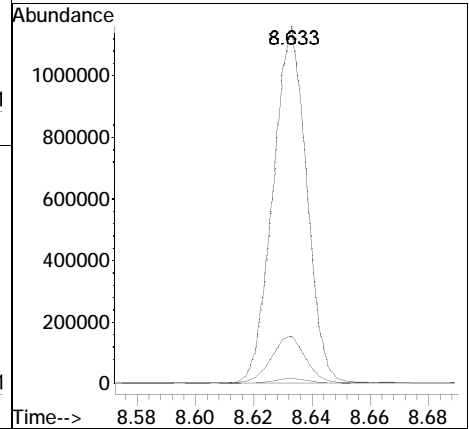
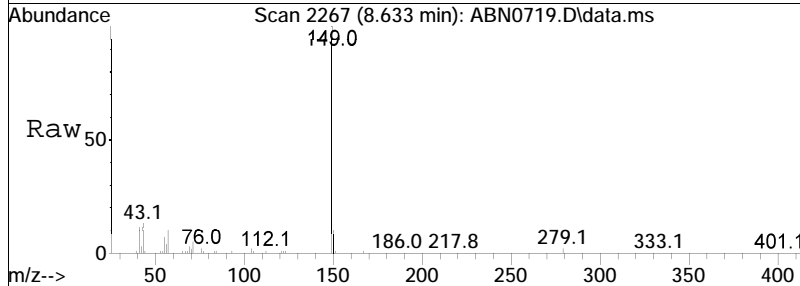
Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.0	19.4	29.0
279	2.1	2.3	3.5#

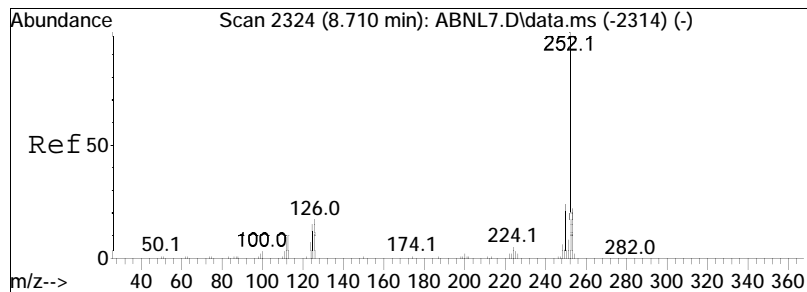




#109
 Di-n-octylphthalate
 Concen: 59.35 ug/ml
 RT: 8.633 min Scan# 2267
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

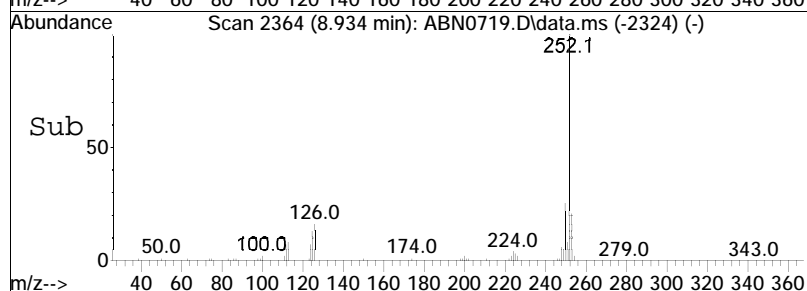
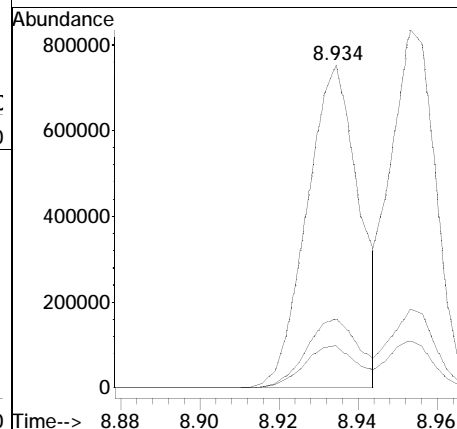
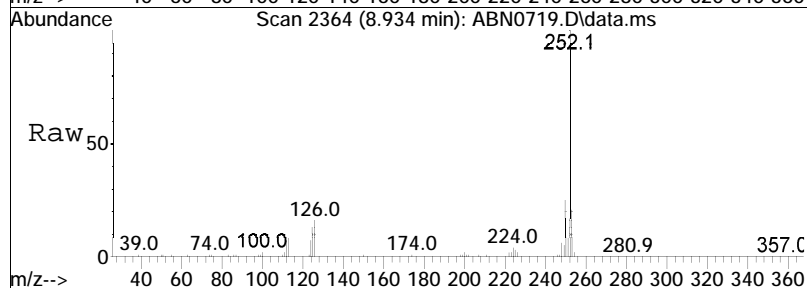
Tgt Ion	Ratio	Lower	Upper
149	100		
43	13.3	10.1	15.1
167	1.3	1.1	1.7

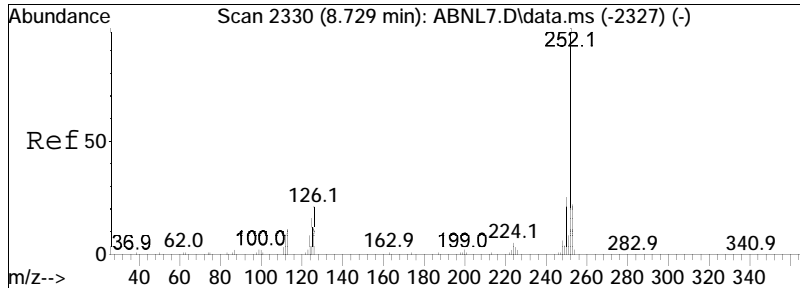




#110
 Benzo(b)fluoranthene
 Concen: 56.00 ug/ml
 RT: 8.934 min Scan# 2364
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

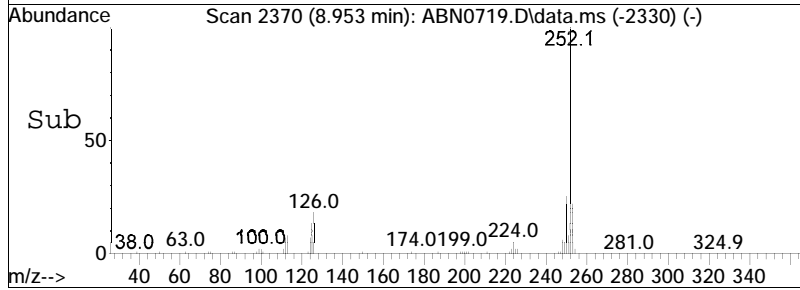
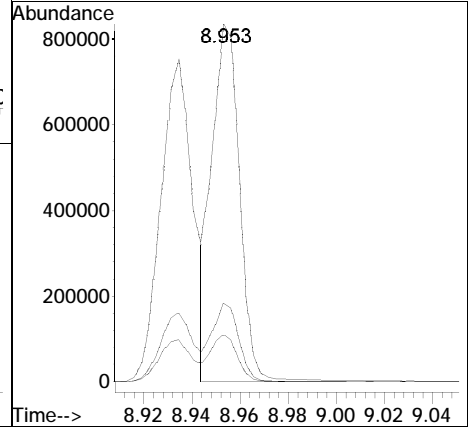
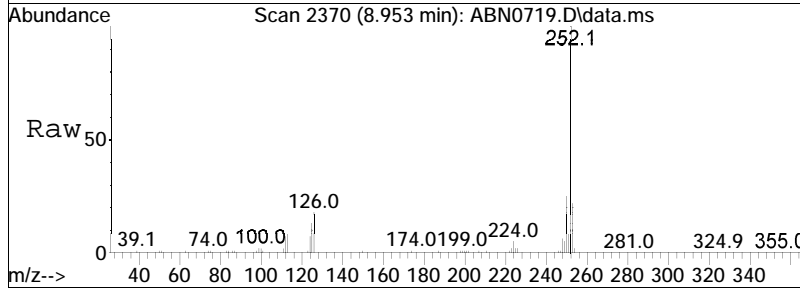
Tgt Ion	Ratio	Lower	Upper
252	100		
125	13.5	11.6	17.4
253	21.8	17.4	26.0

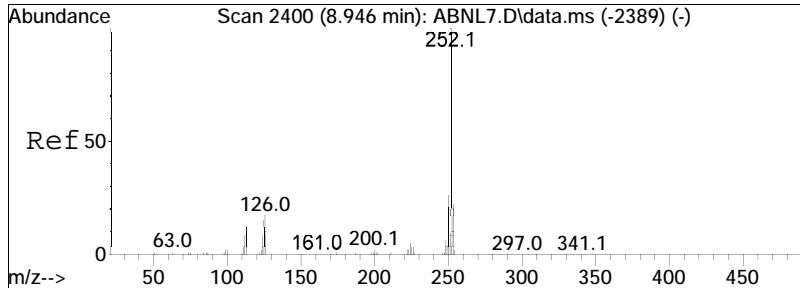




#111
 Benzo(k)fluoranthene
 Concen: 55.51 ug/ml
 RT: 8.953 min Scan# 2370
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

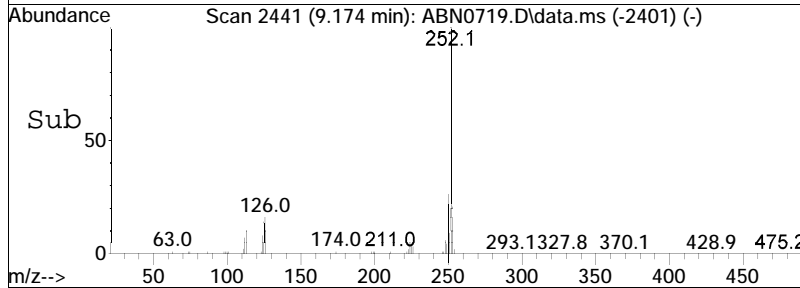
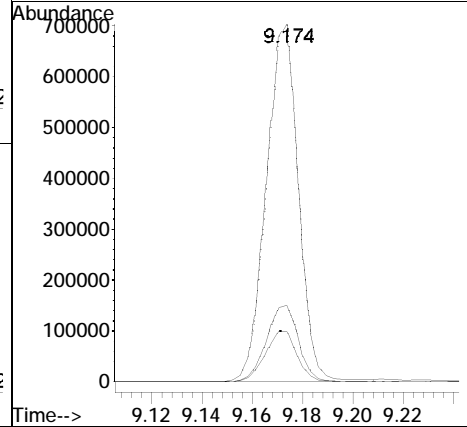
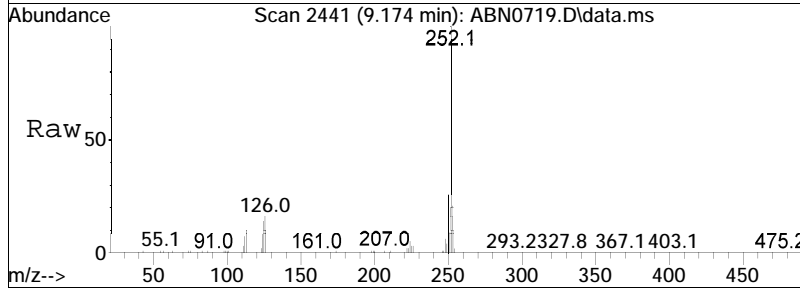
Tgt Ion	Ratio	Lower	Upper
252	100		
125	12.4	11.4	17.0
253	21.1	17.2	25.8

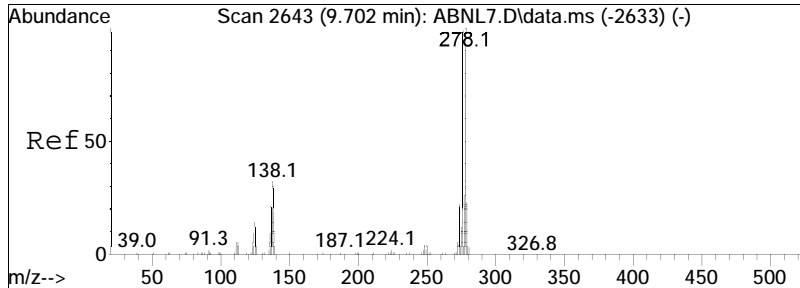




#112
 Benzo(a)pyrene
 Concen: 58.43 ug/ml
 RT: 9.174 min Scan# 2441
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

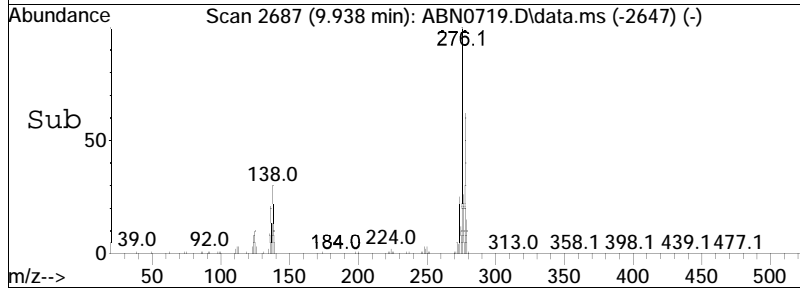
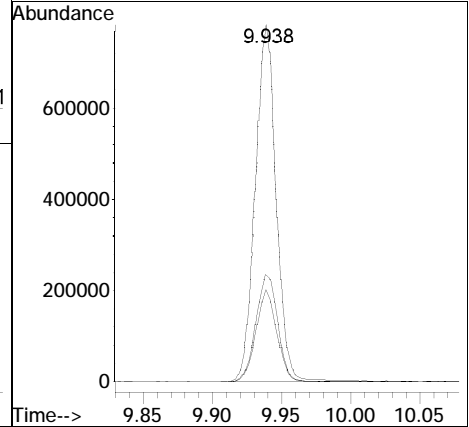
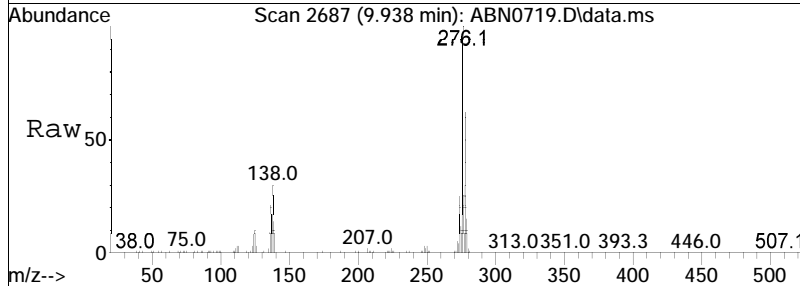
Tgt Ion	Ratio	Lower	Upper
252	100		
125	14.1	12.6	18.8
253	21.6	16.9	25.3

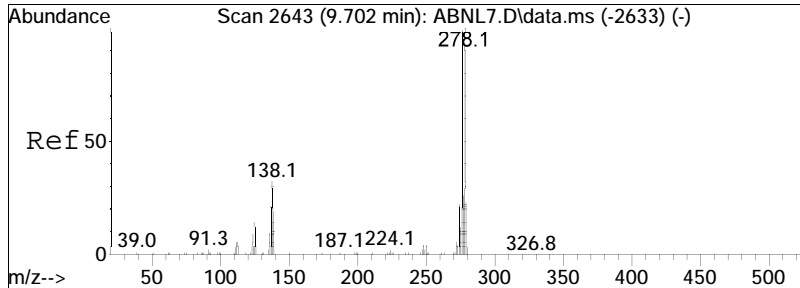




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 56.97 ug/mL
 RT: 9.938 min Scan# 2687
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

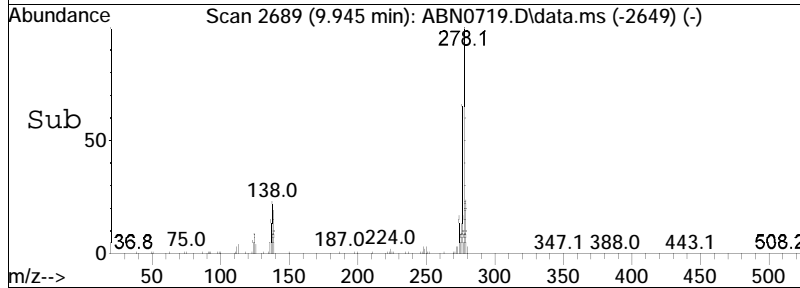
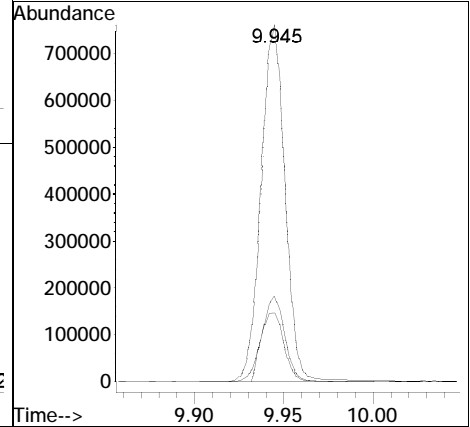
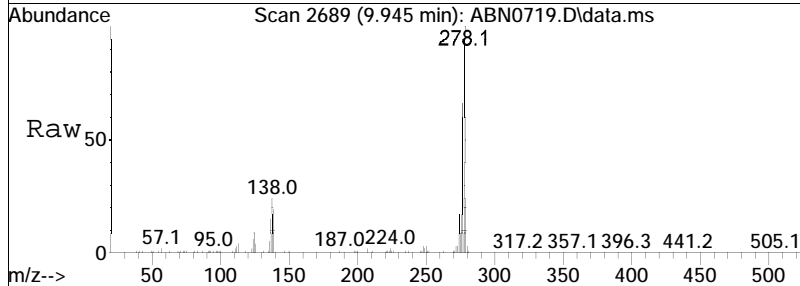
Tgt Ion	Ratio	Lower	Upper
276	100		
138	31.9	21.4	32.0
277	25.8	19.2	28.8

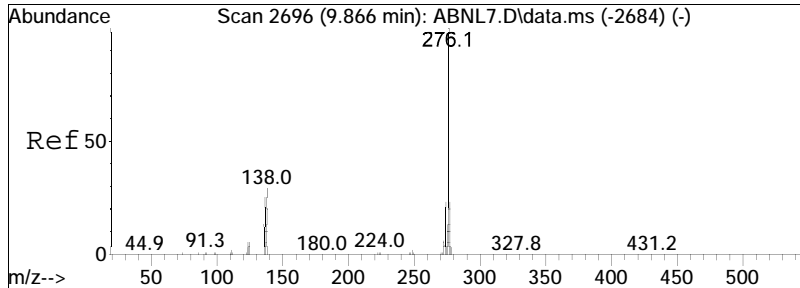




#115
 Dibenzo(a,h)anthracene
 Concen: 55.57 ug/ml
 RT: 9.945 min Scan# 2689
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

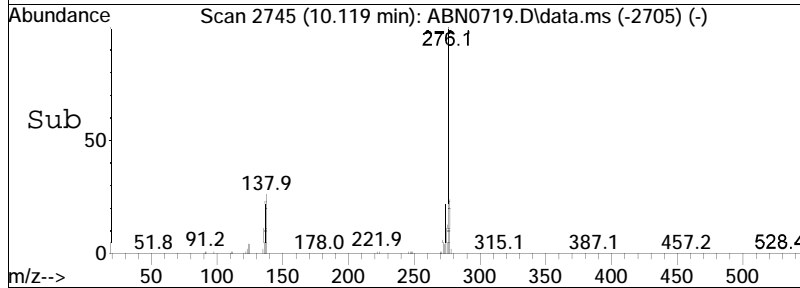
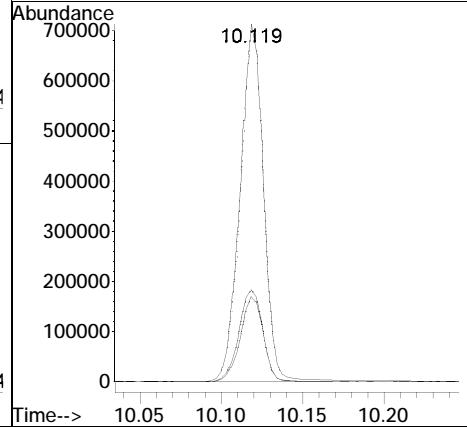
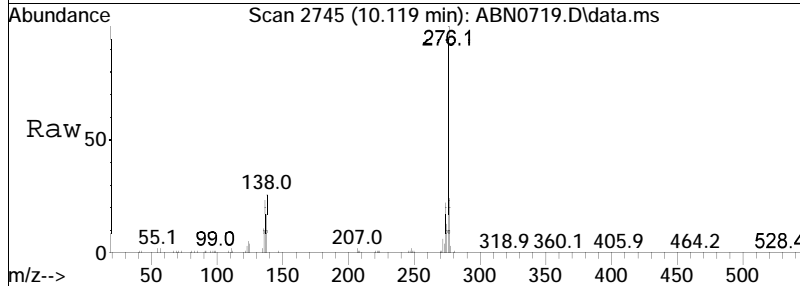
Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.7	17.1	25.7
279	23.1	19.3	28.9





#116
 Benzo(ghi)perylene
 Concen: 55.62 ug/ml
 RT: 10.119 min Scan# 2745
 Delta R.T. 0.000 min
 Lab File: ABN0719.D
 Acq: 19 Jul 2023 7:10 am

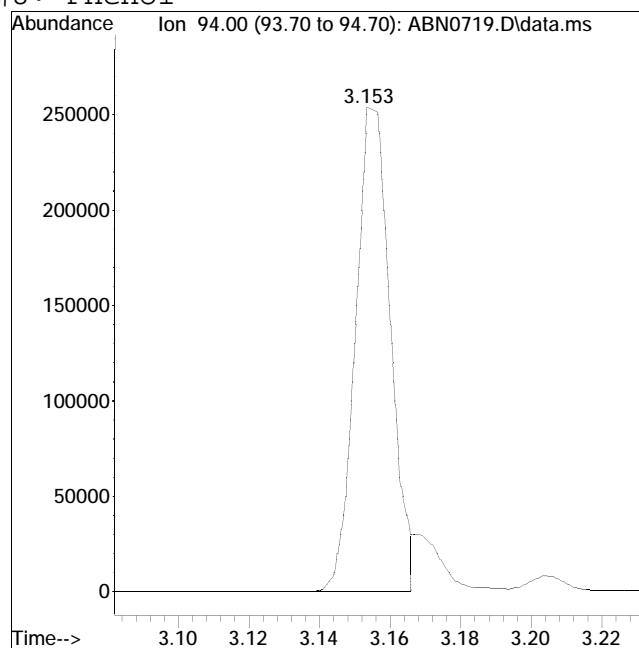
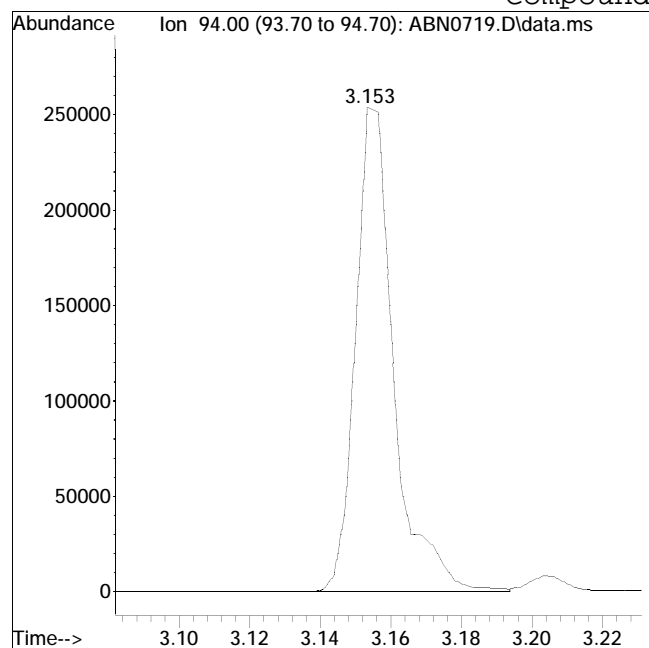
Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.4	26.7	40.1#
277	23.6	19.4	29.2



Manual Integration Report

Data Path : I:\8270\SV124\230719\ QMethod : FS230526SV124.m
Data File : ABN0719.D Operator : SV124:ljb
Date Inj'd : 7/19/2023 7:10 am Instrument : SV124
Sample : WG1804924-3,32,,ABN 10133 Quant Date : 7/19/2023 9:46 am

Compound #8: Phenol



Original Peak Response = 191346

Manual Peak Response = 175880 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\230719\
 Data File : AP90719.D
 Acq On : 19 Jul 2023 7:27 am
 Operator : SV124:ljpg
 Sample : WG1804924-4,32,,AP9 10068 gmr0711B
 Misc : WG1804924,,ical20053
 ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jul 19 09:44:55 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:44:39 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27 I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	65	0.00
28 T	Benzaldehyde	0.783	0.905	-15.6	70	0.00
29 T	Acetophenone	* 50.000	57.821	-15.6	75	0.00
30 T	m-Toluidine	1.501	1.765	-17.6	68	0.00
31 T	2-Chloroaniline	1.593	1.914	-20.2#	74	0.00
55 I	IS2_Naphthalene-d8	1.000	1.000	0.0	66	0.00
56 T	a-Terpineol	0.292	0.402	-37.7#	86	0.00
57 T	3-Chloroaniline	0.129	0.148	-14.7	70	0.00
58 T	2,6-Dichlorophenol	0.261	0.292	-11.9	70	0.00
59 T	1-chloro-2-nitrobenzene	0.134	0.154	-14.9	73	0.00
60 T	Caprolactam	* 50.000	67.039	-34.1#	96	0.00
61 T	1,2,4,5-Tetrachlorobenzene	0.361	0.329	8.9	60	0.00
62 T	Biphenyl	0.822	0.841	-2.3	65	0.00
83 I	IS2_Acenaphthene-d10	1.000	1.000	0.0	62	0.00
84 T	Dichloran	* 50.000	51.568	-3.1	72	0.00
85 T	Pentachloronitrobenzene	0.198	0.196	1.0	59	0.00
98 I	IS2_Phenanthrene-d10	1.000	1.000	0.0	53	0.00
99 T	Diphenamid	* 50.000	60.472	-20.9#	62	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
 Data File : AP90719.D
 Acq On : 19 Jul 2023 7:27 am
 Operator : SV124:ljpg
 Sample : WG1804924-4,32,,AP9 10068 gmr0711B
 Misc : WG1804924,,ical20053
 ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jul 19 09:44:55 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:44:39 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.374	152	78776	40.000	ug/ml	0.00
55) IS2_Naphthalene-d8	4.157	136	330473	40.000	ug/ml	0.00
83) IS2_Acenaphthene-d10	5.286	164	175556	40.000	ug/ml	0.00
98) IS2_Phenanthrene-d10	6.243	188	342128	40.000	ug/ml	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.119	105	89101	57.799	ug/ml	91
29) Acetophenone	3.616	105	207301	57.821	ug/ml#	88
30) m-Toluidine	3.663	106	173754	58.776	ug/ml	99
31) 2-Chloroaniline	3.896	127	188462	60.058	ug/ml#	94
56) a-Terpineol	4.176	59	166232	68.863	ug/ml	87
57) 3-Chloroaniline	4.195	65	61218	57.247	ug/ml#	68
58) 2,6-Dichlorophenol	4.213	162	120560	55.976	ug/ml	92
59) 1-chloro-2-nitrobenzene	4.384	111	63709	57.696	ug/ml	94
60) Caprolactam	4.415	55	92312	67.039	ug/ml#	81
61) 1,2,4,5-Tetrachloroben...	4.726	216	135914	45.592	ug/ml	99
62) Biphenyl	4.913	154	347442	51.150	ug/ml	100
84) Dichloran	6.035	206	43582	51.568	ug/ml	88
85) Pentachloronitrobenzene	6.137	237	43103	49.637	ug/ml	87
99) Diphenamid	6.833	167	244897	60.472	ug/ml	92

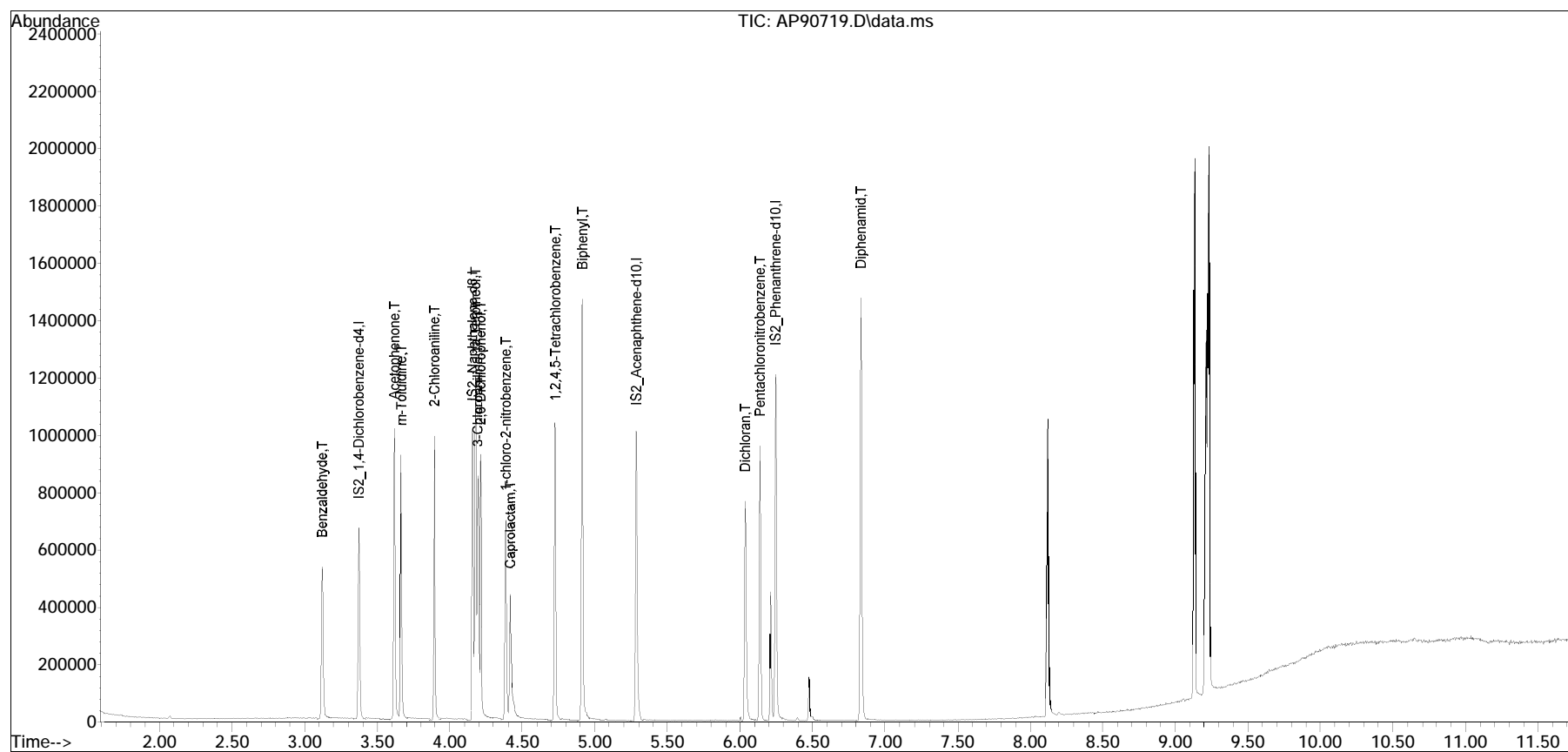
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

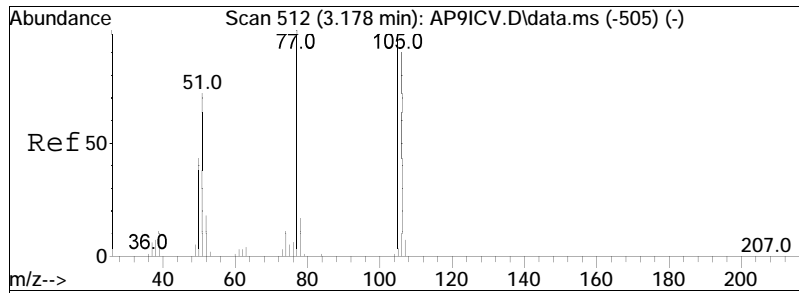
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
Data File : AP90719.D
Acq On : 19 Jul 2023 7:27 am
Operator : SV124:ljb
Sample : WG1804924-4,32,,AP9 10068 gmr0711B
Misc : WG1804924,,ical20053
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jul 19 09:44:55 2023
Quant Method : I:\8270\SV124\230719\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 09:44:39 2023
Response via : Initial Calibration

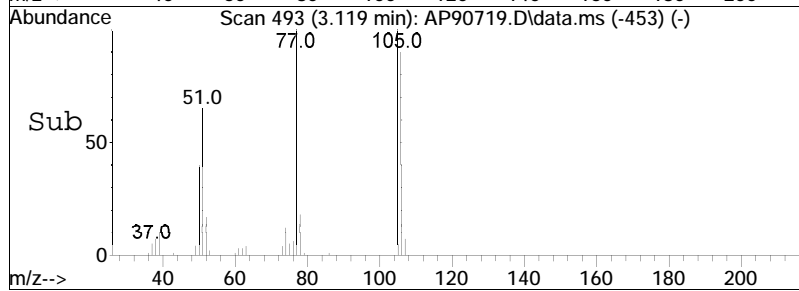
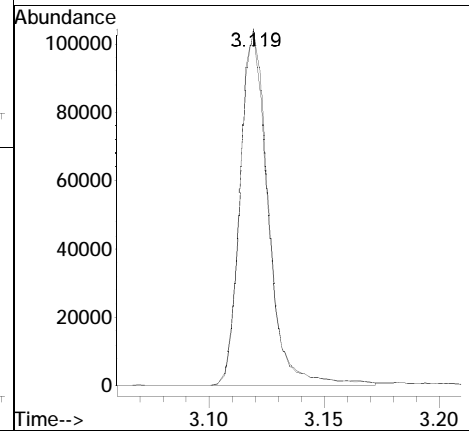
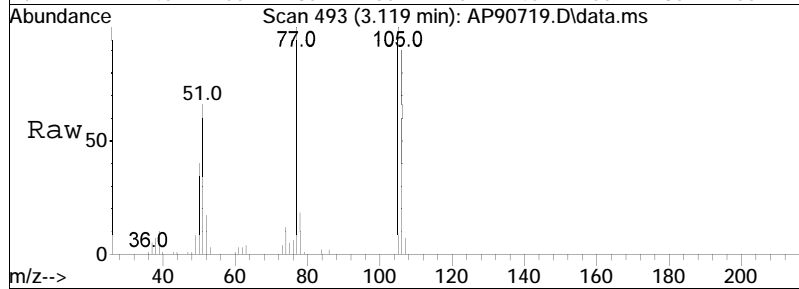
Sub List : AP9ical - AP9 ical sublist

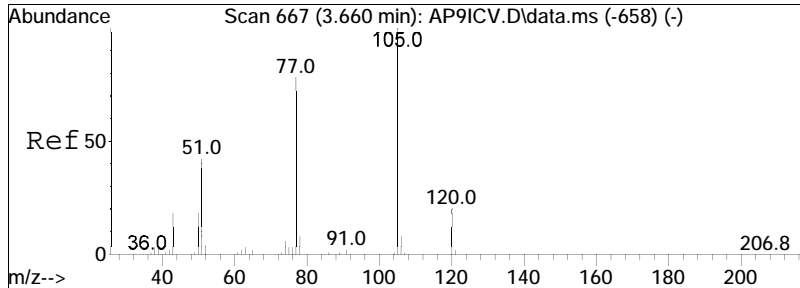




#28
 Benzaldehyde
 Concen: 57.80 ug/ml
 RT: 3.119 min Scan# 493
 Delta R.T. 0.000 min
 Lab File: AP90719.D
 Acq: 19 Jul 2023 7:27 am

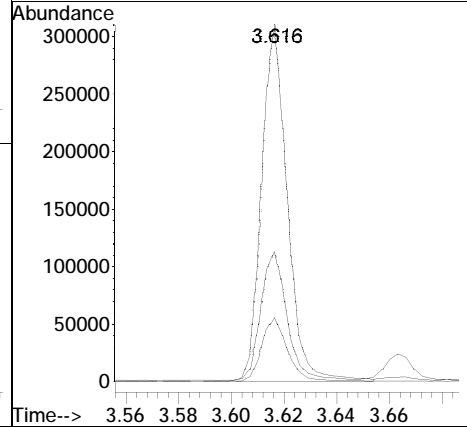
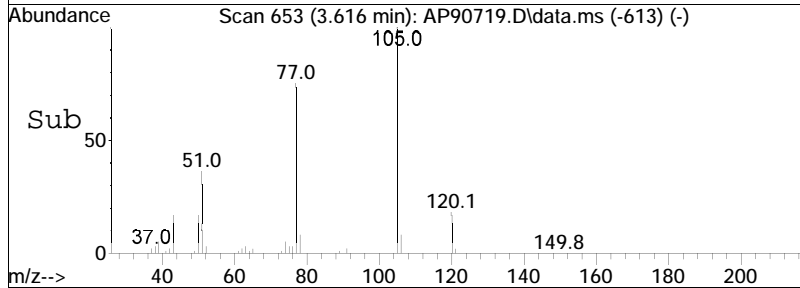
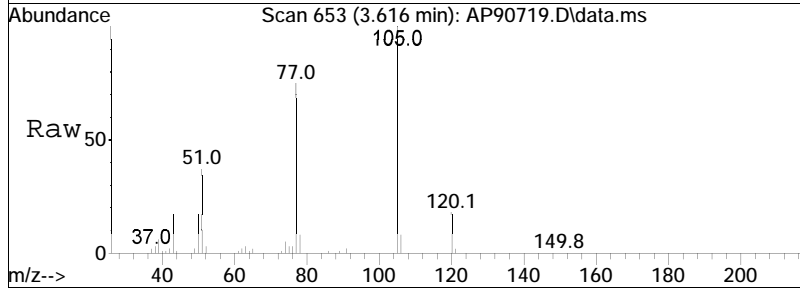
Tgt Ion: 105 Resp: 89101
 Ion Ratio Lower Upper
 105 100
 77 98.1 72.0 108.0

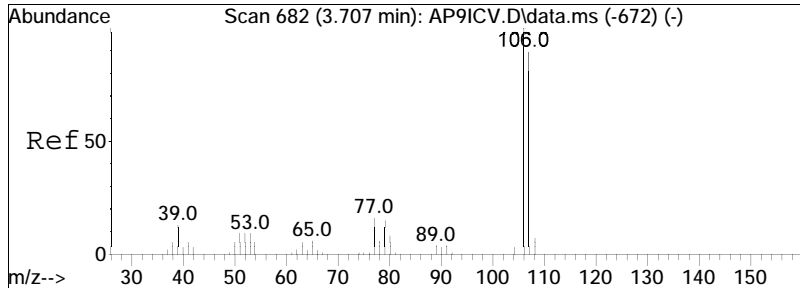




#29
 Acetophenone
 Concen: 57.82 ug/ml
 RT: 3.616 min Scan# 653
 Delta R.T. 0.000 min
 Lab File: AP90719.D
 Acq: 19 Jul 2023 7:27 am

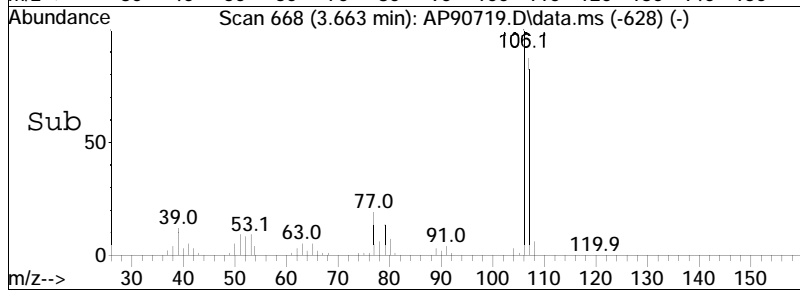
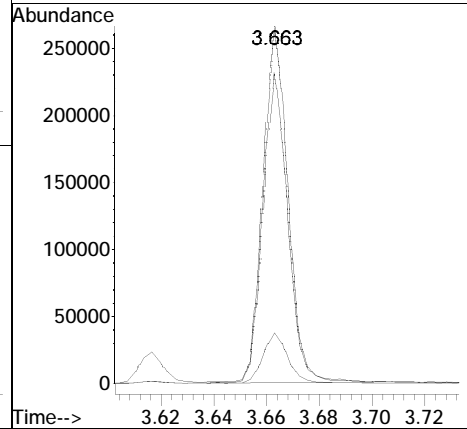
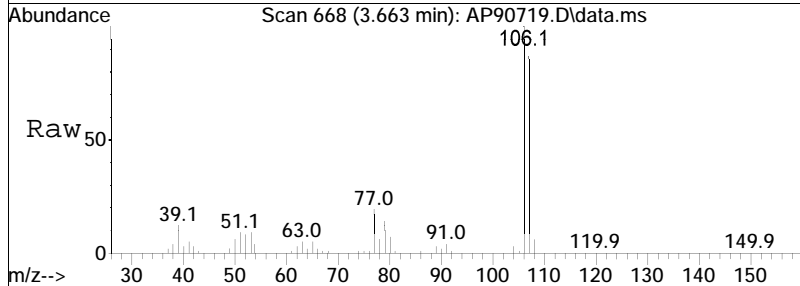
Tgt Ion	Ratio	Lower	Upper
105	100		
120	18.3	18.0	27.0
51	37.1	23.8	35.6#

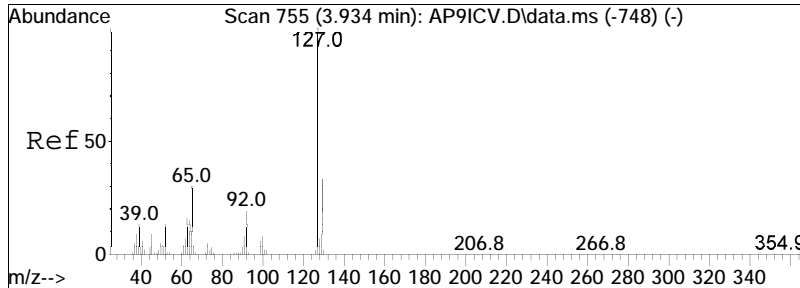




#30
 m-Toluidine
 Concen: 58.78 ug/ml
 RT: 3.663 min Scan# 668
 Delta R.T. 0.000 min
 Lab File: AP90719.D
 Acq: 19 Jul 2023 7:27 am

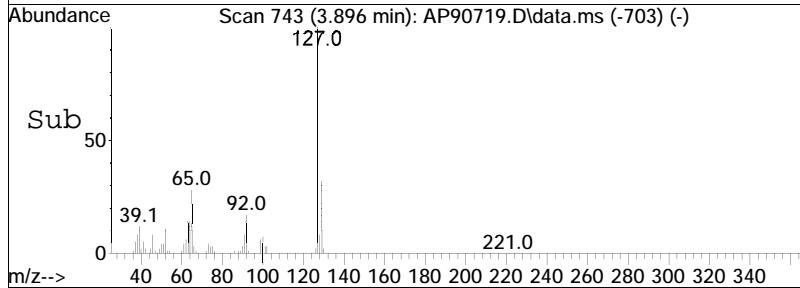
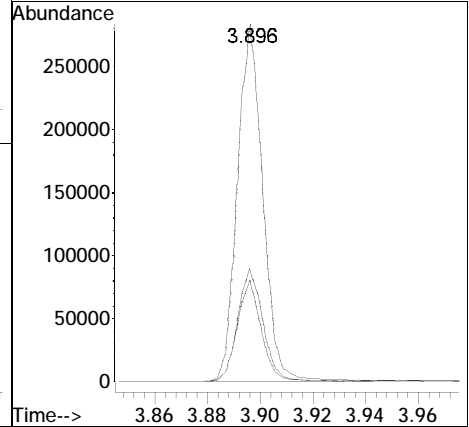
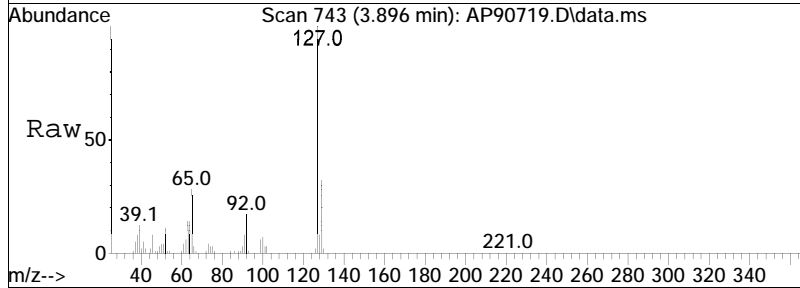
Tgt Ion	Resp	Lower	Upper
106	100		
107	88.3	71.1	106.7
79	14.6	10.5	15.7

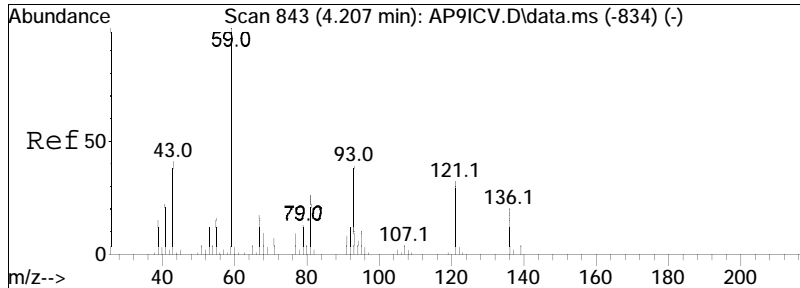




#31
 2-Chloroaniline
 Concen: 60.06 ug/ml
 RT: 3.896 min Scan# 743
 Delta R.T. 0.000 min
 Lab File: AP90719.D
 Acq: 19 Jul 2023 7:27 am

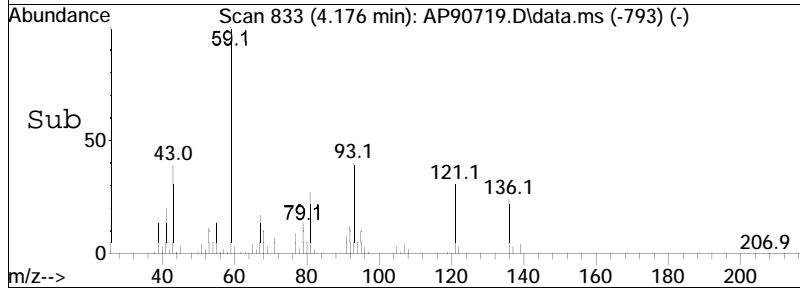
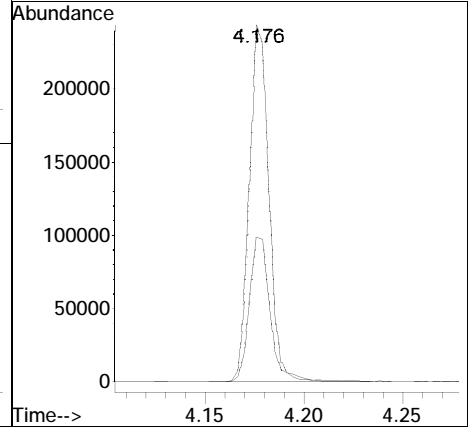
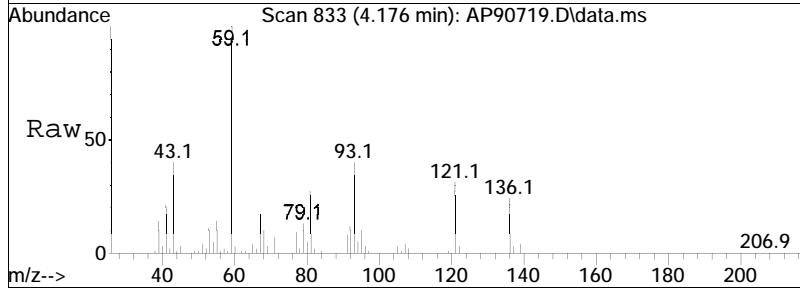
Tgt Ion	Ratio	Lower	Upper
127	100		
129	31.5	25.9	38.9
65	27.0	17.1	25.7#

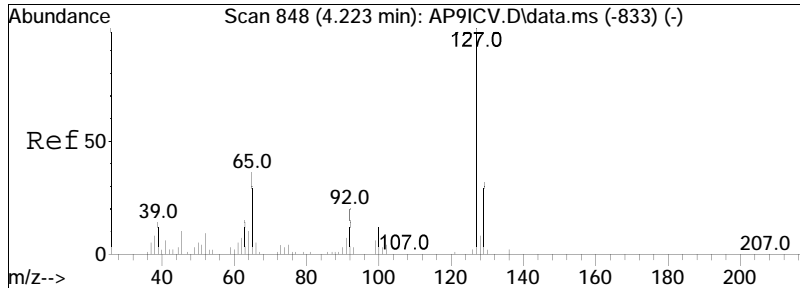




#56
 a-Terpineol
 Concen: 68.86 ug/ml
 RT: 4.176 min Scan# 833
 Delta R.T. 0.000 min
 Lab File: AP90719.D
 Acq: 19 Jul 2023 7:27 am

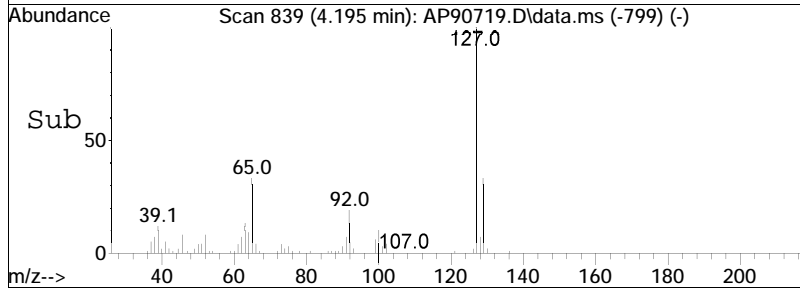
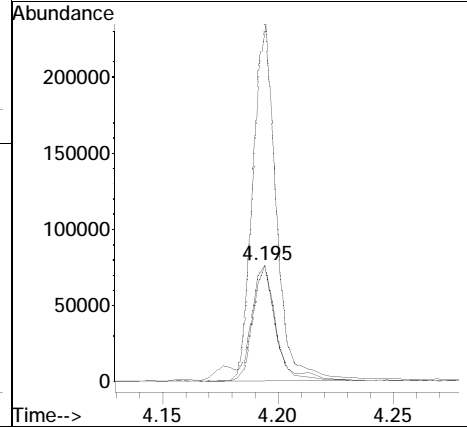
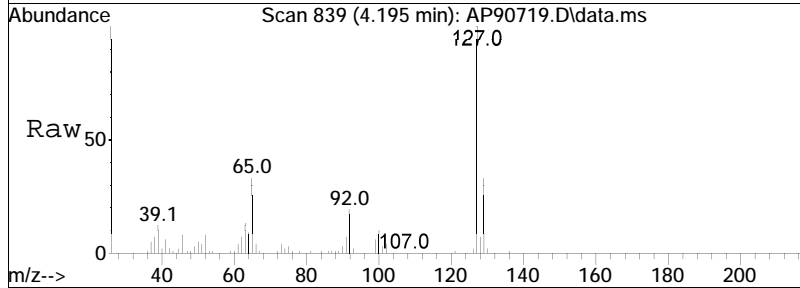
Tgt Ion: 59 Resp: 166232
 Ion Ratio Lower Upper
 59 100
 93 43.4 42.2 63.4

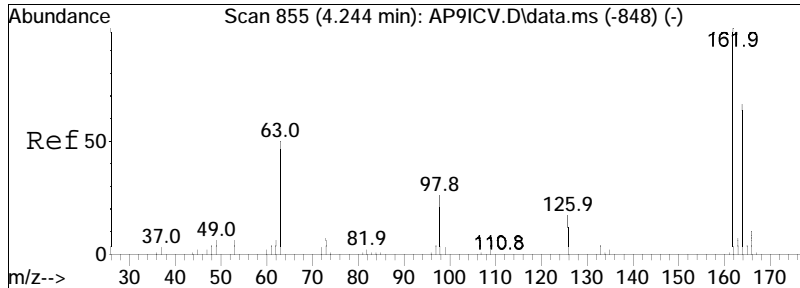




#57
 3-Chloroaniline
 Concen: 57.25 ug/ml
 RT: 4.195 min Scan# 839
 Delta R.T. 0.000 min
 Lab File: AP90719.D
 Acq: 19 Jul 2023 7:27 am

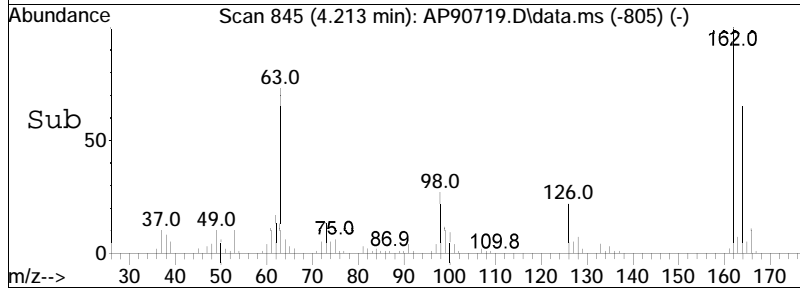
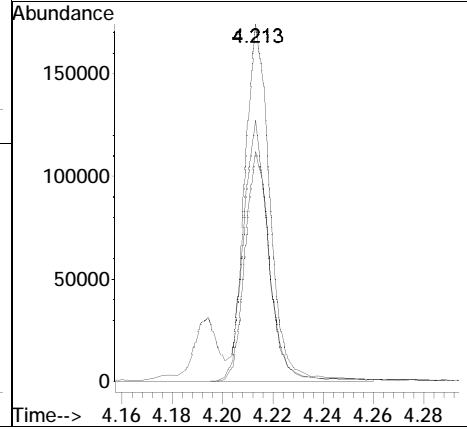
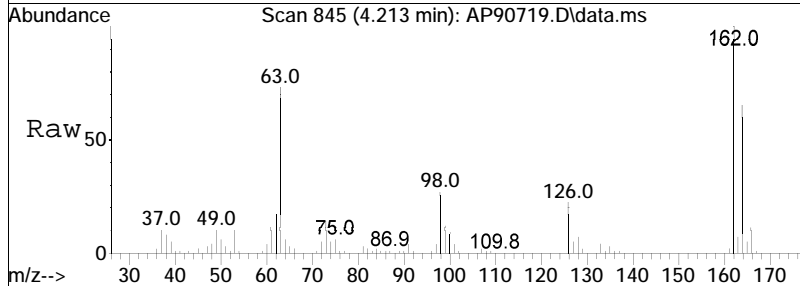
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
65	100		
127	271.4	278.4	417.6#
129	86.5	88.9	133.3#

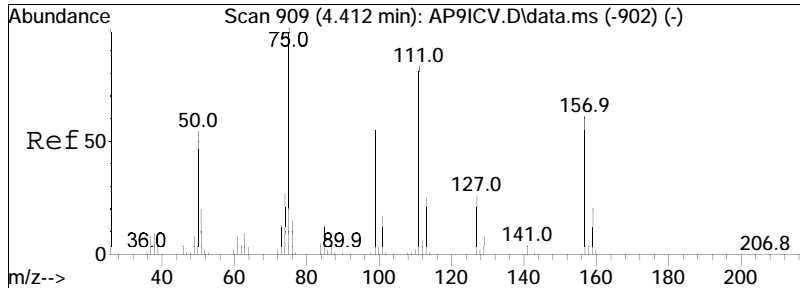




#58
 2,6-Dichlorophenol
 Concen: 55.98 ug/ml
 RT: 4.213 min Scan# 845
 Delta R.T. 0.000 min
 Lab File: AP90719.D
 Acq: 19 Jul 2023 7:27 am

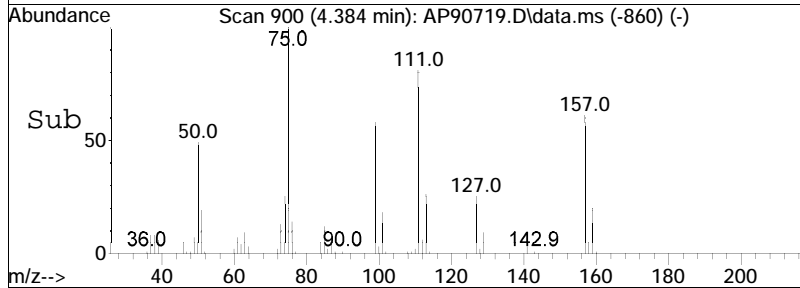
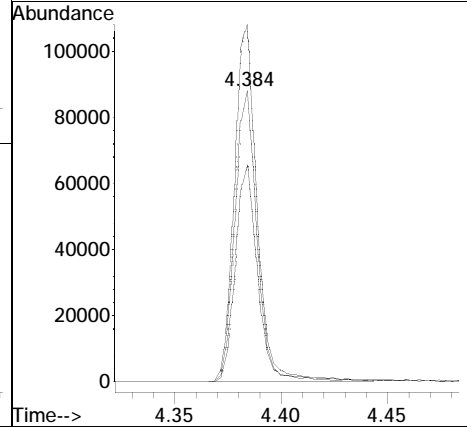
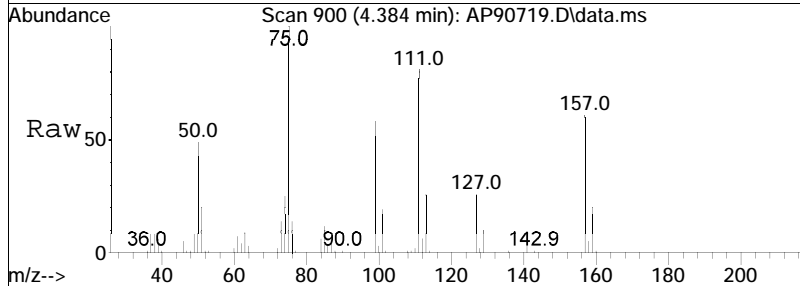
Tgt Ion	Resp	Lower	Upper
162	120560		
162	100		
164	64.4	50.8	76.2
63	70.4	47.4	71.0

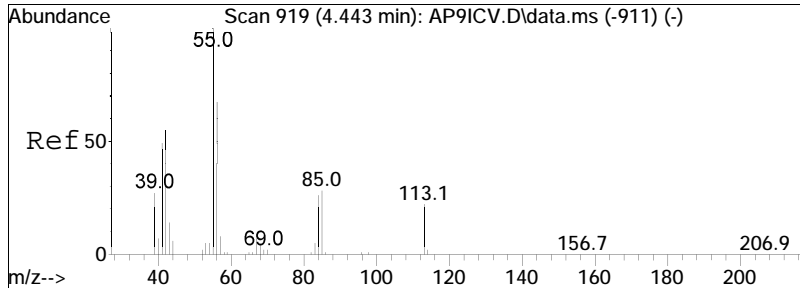




#59
 1-chloro-2-nitrobenzene
 Concen: 57.70 ug/ml
 RT: 4.384 min Scan# 900
 Delta R.T. 0.000 min
 Lab File: AP90719.D
 Acq: 19 Jul 2023 7:27 am

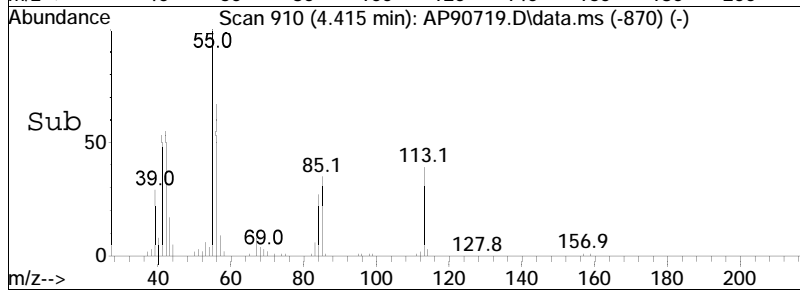
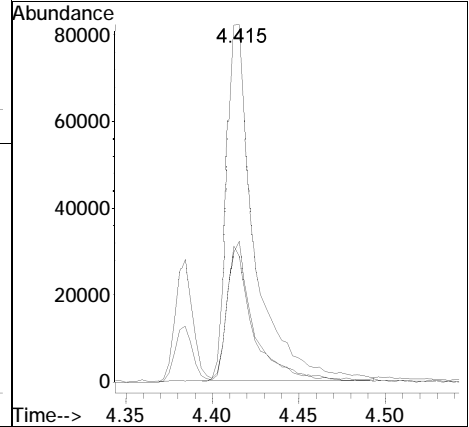
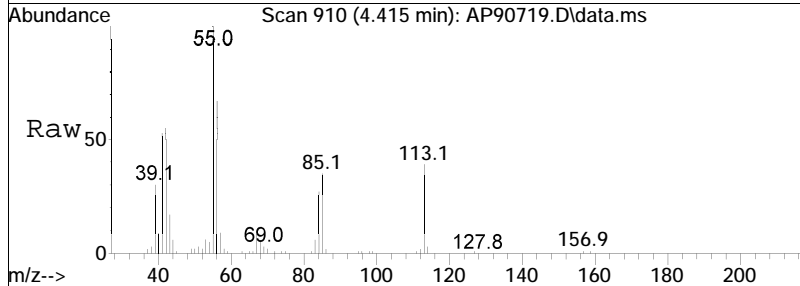
Tgt Ion	Resp	Lower	Upper
111	100		
157	74.3	62.6	94.0
75	124.5	93.0	139.6

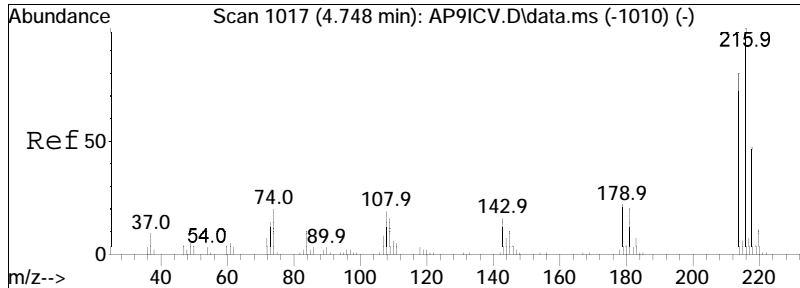




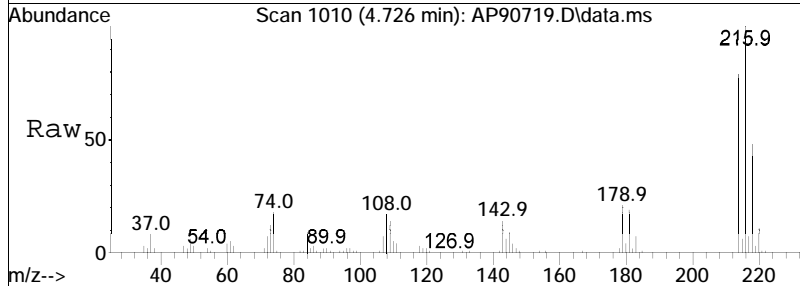
#60
 Caprolactam
 Concen: 67.04 ug/ml
 RT: 4.415 min Scan# 910
 Delta R.T. 0.000 min
 Lab File: AP90719.D
 Acq: 19 Jul 2023 7:27 am

Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
55	100		
85	34.0	32.6	48.8
113	37.3	44.6	66.8#

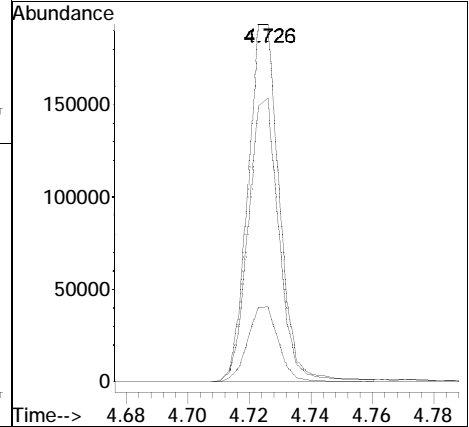
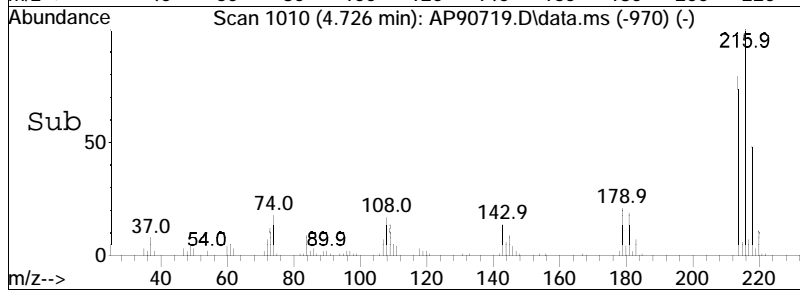


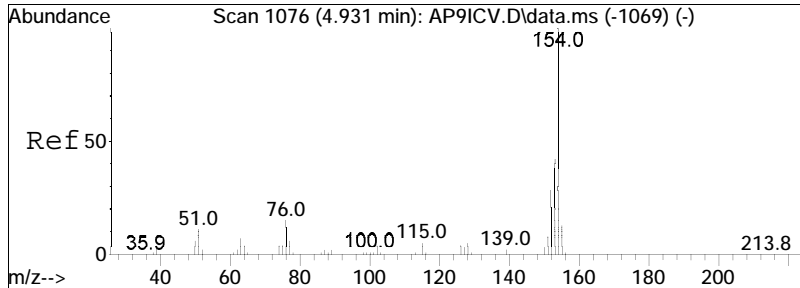


#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 45.59 ug/ml
 RT: 4.726 min Scan# 1010
 Delta R.T. 0.000 min
 Lab File: AP90719.D
 Acq: 19 Jul 2023 7:27 am



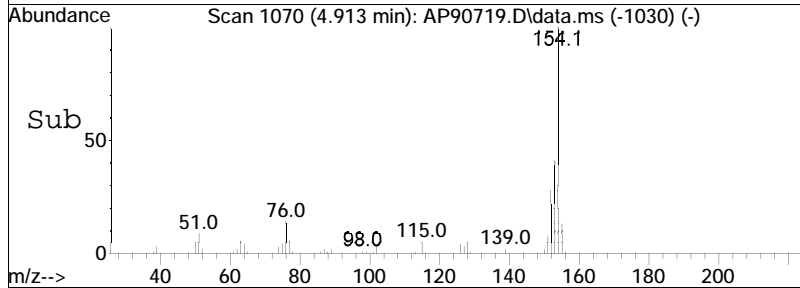
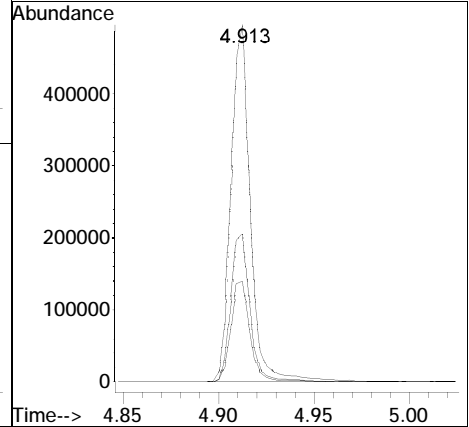
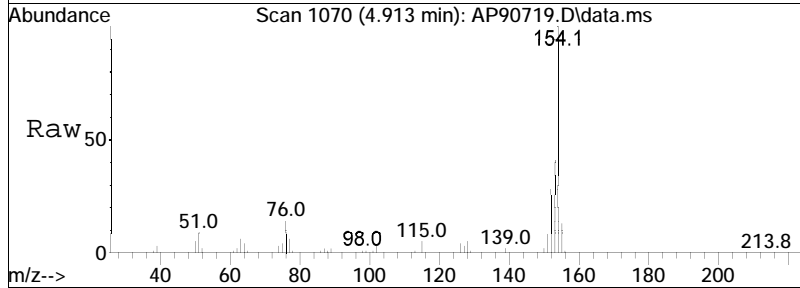
Tgt Ion	Ratio	Lower	Upper
216	100		
214	77.9	63.0	94.6
179	20.9	17.4	26.2

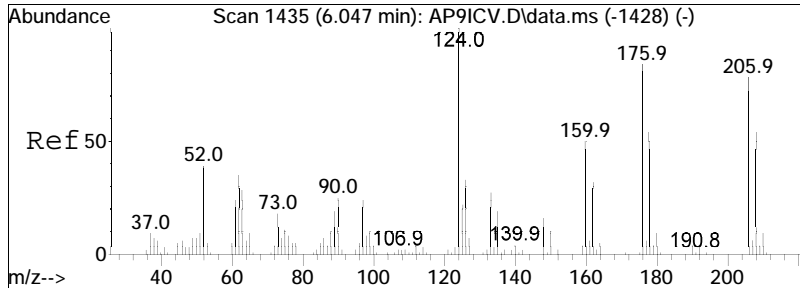




#62
 Biphenyl
 Concen: 51.15 ug/ml
 RT: 4.913 min Scan# 1070
 Delta R.T. 0.000 min
 Lab File: AP90719.D
 Acq: 19 Jul 2023 7:27 am

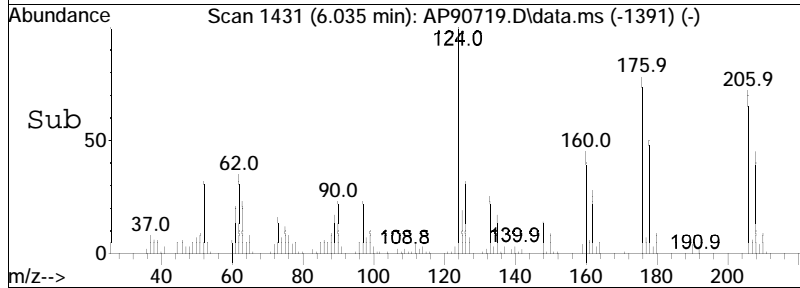
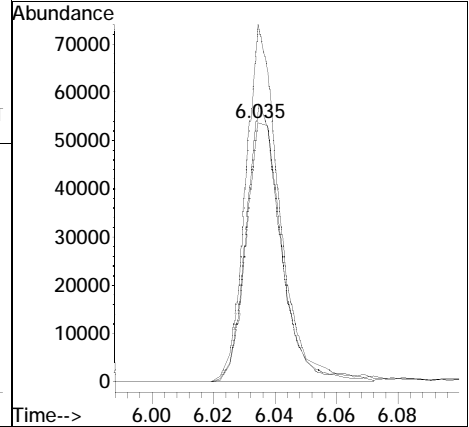
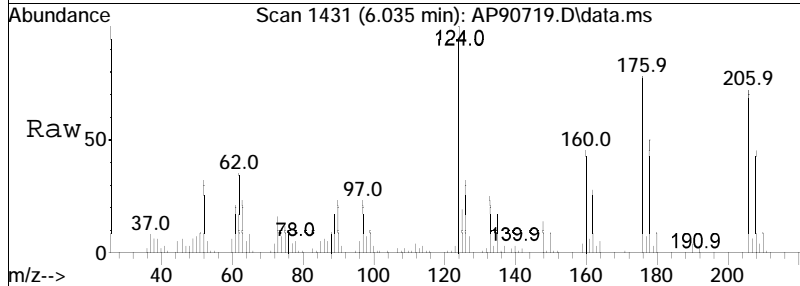
Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.9	33.5	50.3
152	28.9	22.6	34.0

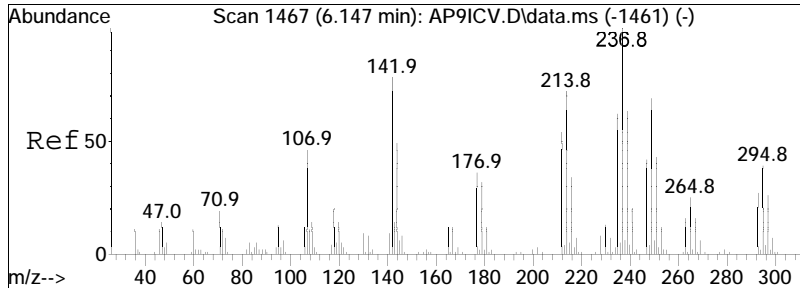




#84
 Dichloran
 Concen: 51.57 ug/ml
 RT: 6.035 min Scan# 1431
 Delta R.T. 0.000 min
 Lab File: AP90719.D
 Acq: 19 Jul 2023 7:27 am

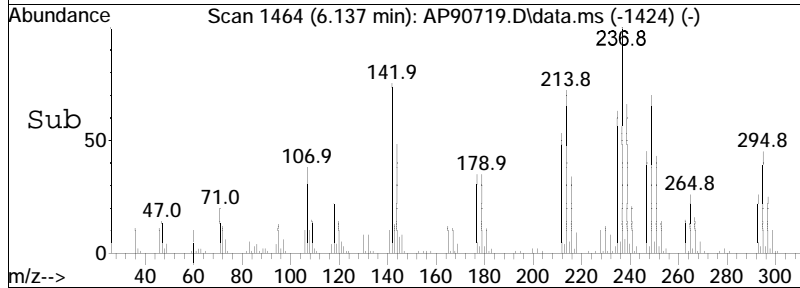
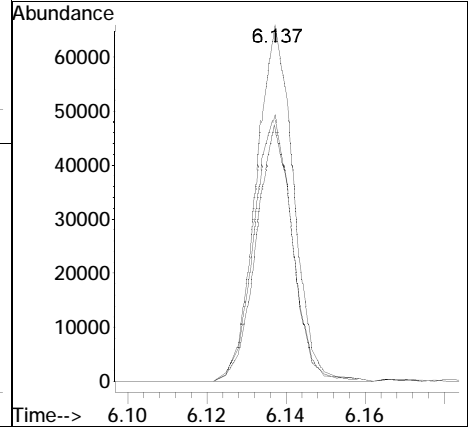
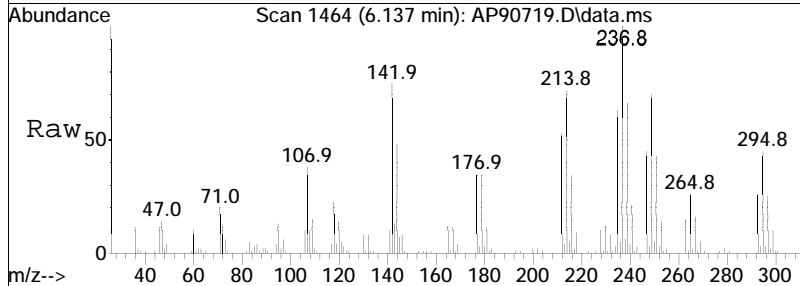
Tgt Ion	Resp	Lower	Upper
206	43582		
206	100		
176	105.0	72.3	108.5
124	130.6	114.0	171.0

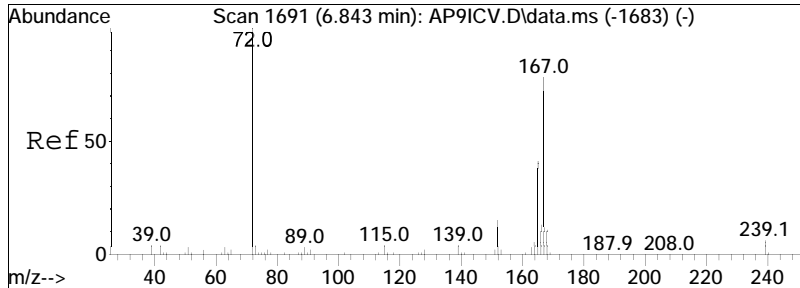




#85
 Pentachloronitrobenzene
 Concen: 49.64 ug/ml
 RT: 6.137 min Scan# 1464
 Delta R.T. 0.000 min
 Lab File: AP90719.D
 Acq: 19 Jul 2023 7:27 am

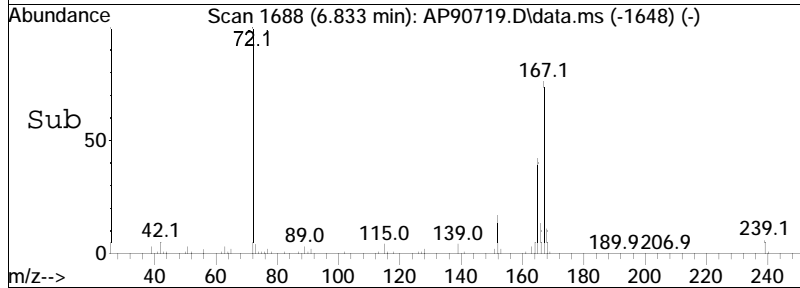
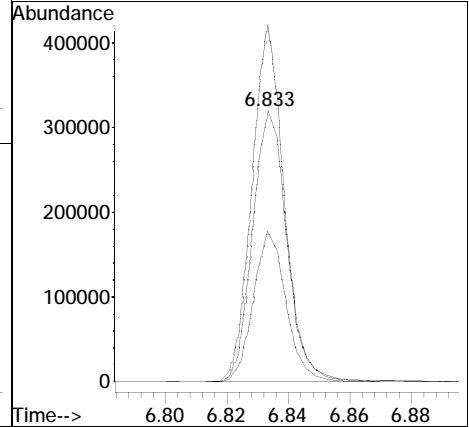
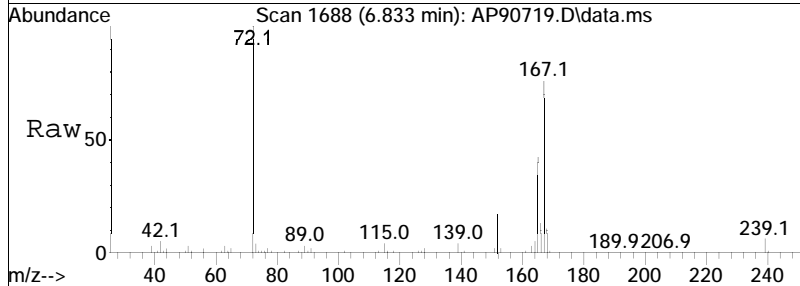
Tgt Ion	Resp	Lower	Upper
237	43103		
237	100		
142	75.8	75.2	112.8
214	70.6	60.5	90.7





#99
 Diphenamid
 Concen: 60.47 ug/ml
 RT: 6.833 min Scan# 1688
 Delta R.T. 0.000 min
 Lab File: AP90719.D
 Acq: 19 Jul 2023 7:27 am

Tgt Ion	Resp	Lower	Upper
167	100		
72	124.8	105.4	158.2
165	53.6	36.2	54.4



Manual Integration Report

Data Path : I:\8270\SV124\230719\ QMethod : FS230526SV124.m
Data File : AP90719.D Operator : SV124:ljpg
Date Inj'd : 7/19/2023 7:27 am Instrument : SV124
Sample : WG1804924-4,32,,AP9 10068 Quant Date : 7/19/2023 9:44 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\230719\
 Data File : ADP0719.D
 Acq On : 19 Jul 2023 7:44 am
 Operator : SV124:ljpg
 Sample : WG1804924-5,32,,ADP 10057 gmr0711B
 Misc : WG1804924,,ical20053
 ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jul 19 09:43:36 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:43:19 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32 I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	68	0.00
33 T	1,4-Dioxane	0.478	0.509	-6.5	80	0.00
34 T	n-Decane	* 50.000	68.428	-36.9#	99	0.00
86 I	IS3_Acenaphthene-d10	1.000	1.000	0.0	71	0.00
87 T	Atrazine	0.387	0.440	-13.7	77	0.00
100 I	IS3_Phenanthrene-d10	1.000	1.000	0.0	62	0.00
101 T	n-Octadecane	0.445	0.714	-60.4#	95	0.00
102 T	Parathion	* 50.000	76.788	-53.6#	108	0.00
103 T	3,3'-Dimethylbenzidine	* 50.000	58.752	-17.5	76	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
 Data File : ADP0719.D
 Acq On : 19 Jul 2023 7:44 am
 Operator : SV124:ljpg
 Sample : WG1804924-5,32,,ADP 10057 gmr0711B
 Misc : WG1804924,,ical20053
 ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jul 19 09:43:36 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:43:19 2023
 Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.374	152	83138	40.000	ug/ml	0.00
86) IS3_Acenaphthene-d10	5.286	164	188343	40.000	ug/ml	0.00
100) IS3_Phenanthrene-d10	6.246	188	380390	40.000	ug/ml	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.777	88	52878	53.205	ug/ml#	54
34) n-Decane	3.281	57	214460	68.428	ug/ml	87
87) Atrazine	6.063	200	103684	56.874	ug/ml	99
101) n-Octadecane	6.178	57	339420	80.155	ug/ml	90
102) Parathion	6.746	109	84642	76.788	ug/ml	95
103) 3,3'-Dimethylbenzidine	7.676	212	454722	58.752	ug/ml	99

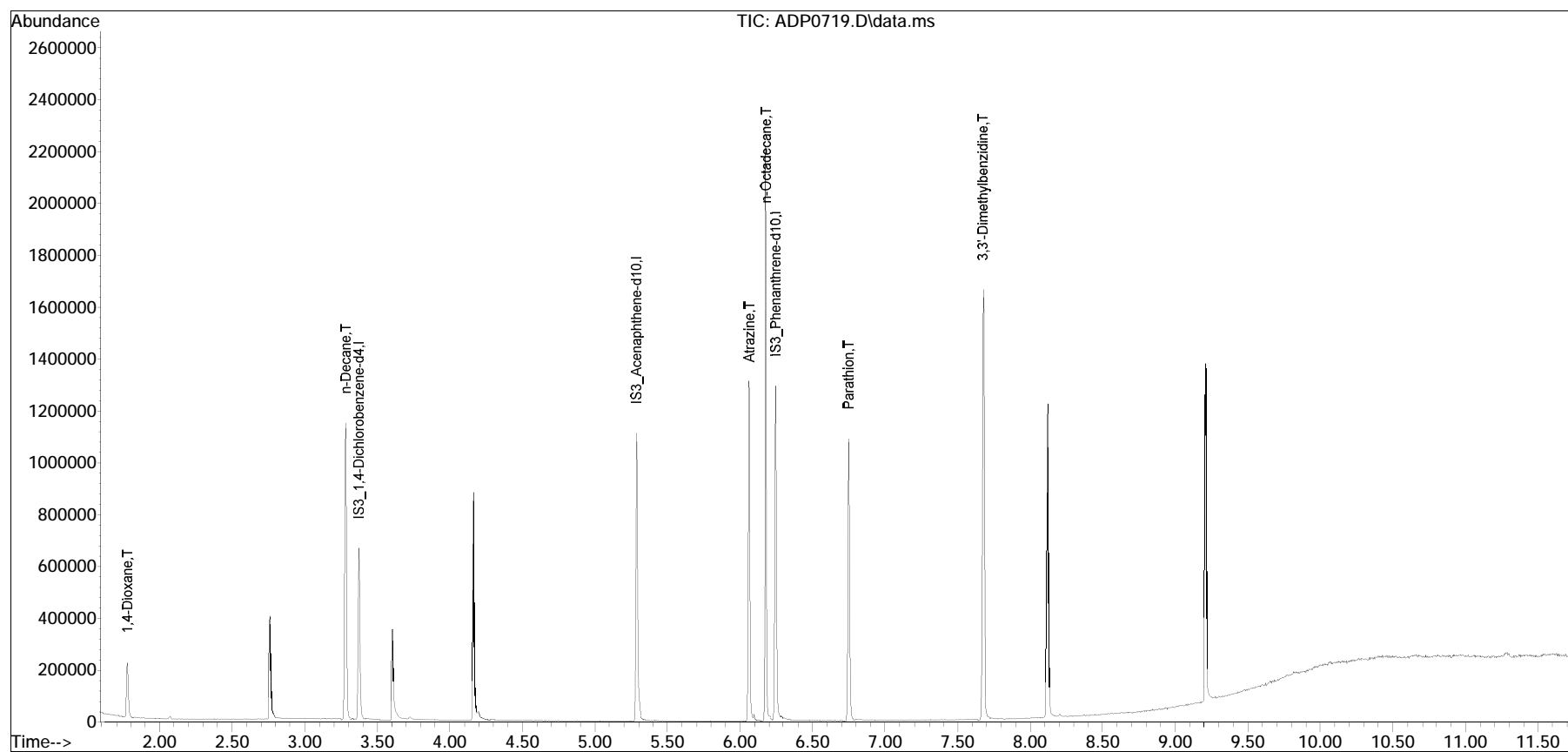
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

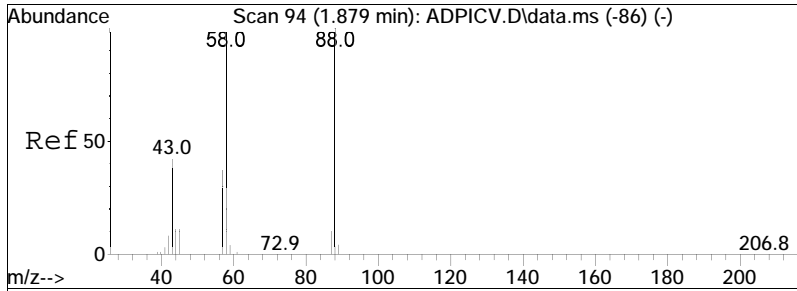
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
Data File : ADP0719.D
Acq On : 19 Jul 2023 7:44 am
Operator : SV124:ljb
Sample : WG1804924-5,32,,ADP 10057 gmr0711B
Misc : WG1804924,,ical20053
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jul 19 09:43:36 2023
Quant Method : I:\8270\SV124\230719\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 09:43:19 2023
Response via : Initial Calibration

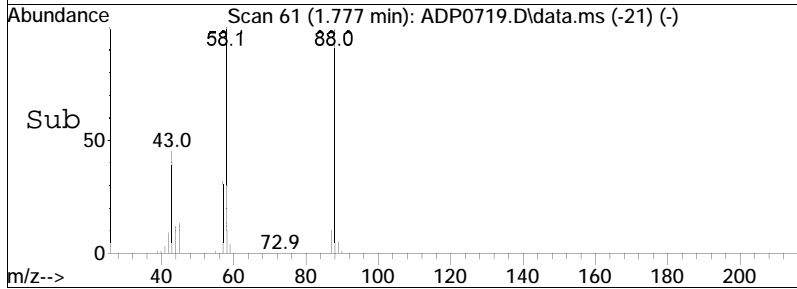
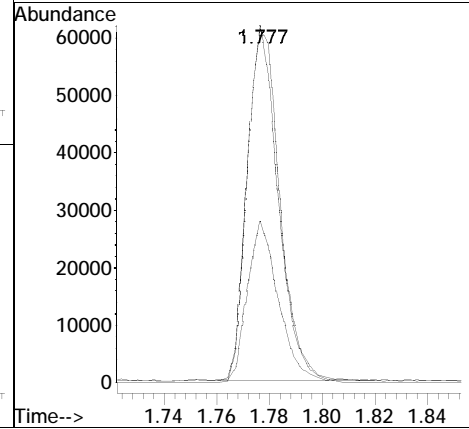
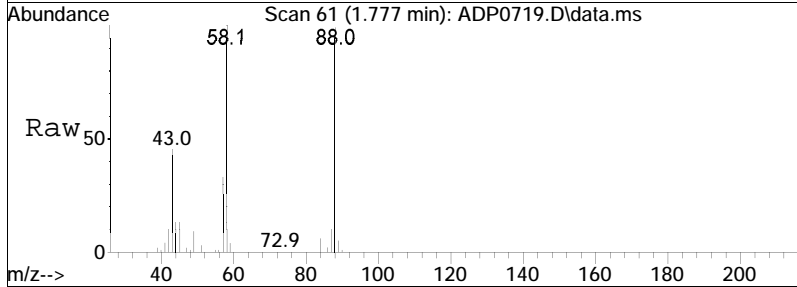
Sub List : ADPical_REV2 - ADP sublist

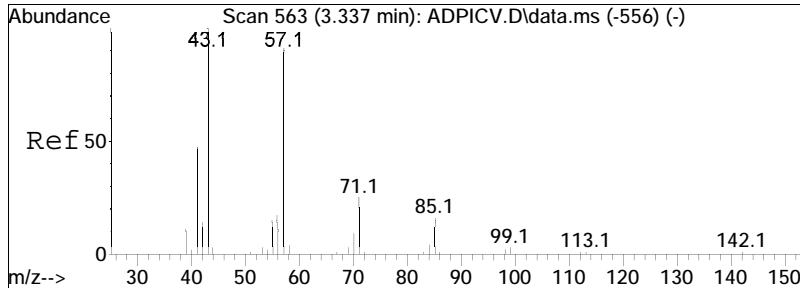




#33
 1,4-Dioxane
 Concen: 53.20 ug/ml
 RT: 1.777 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: ADP0719.D
 Acq: 19 Jul 2023 7:44 am

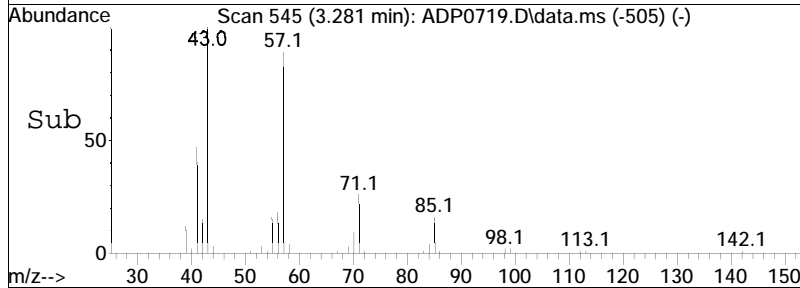
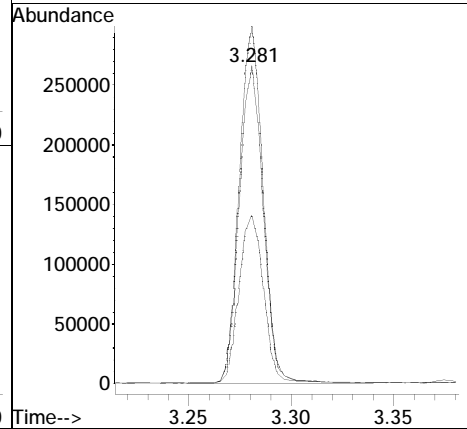
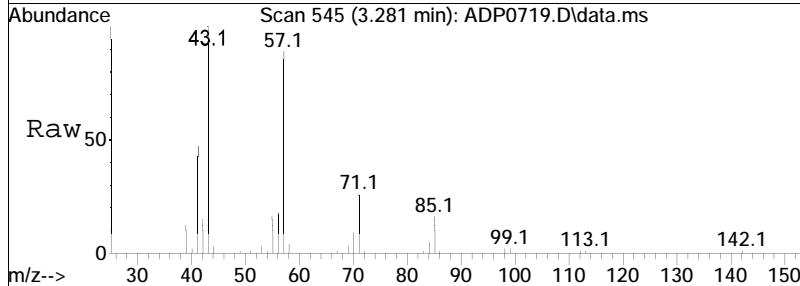
Tgt Ion	Ratio	Lower	Upper
88	100		
58	95.4	44.8	67.2#
43	43.4	22.4	33.6#

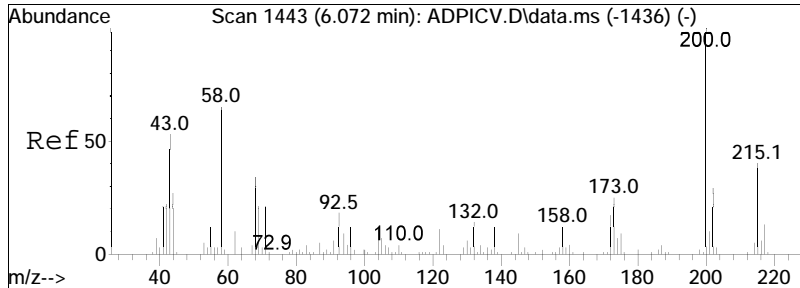




#34
 n-Decane
 Concen: 68.43 ug/ml
 RT: 3.281 min Scan# 545
 Delta R.T. 0.000 min
 Lab File: ADP0719.D
 Acq: 19 Jul 2023 7:44 am

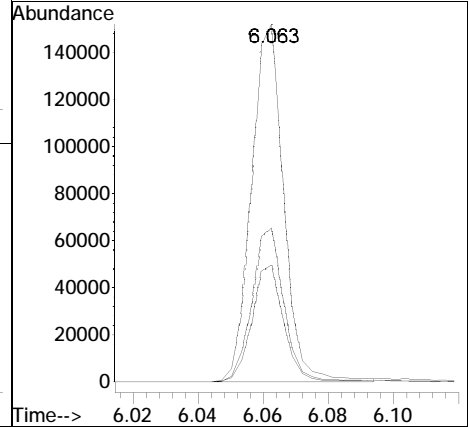
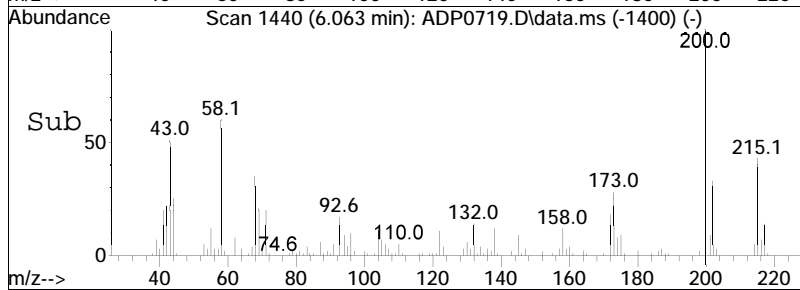
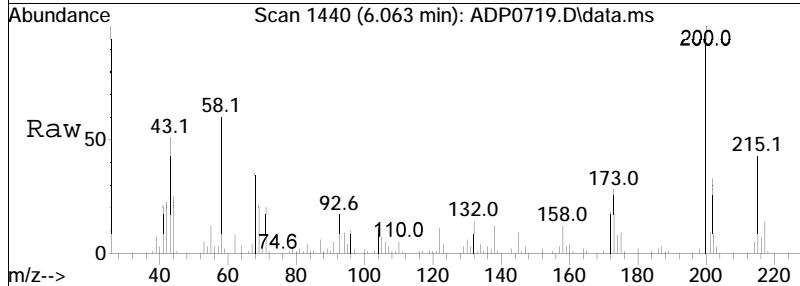
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
43	111.0	77.9	116.9
41	54.2	36.9	55.3

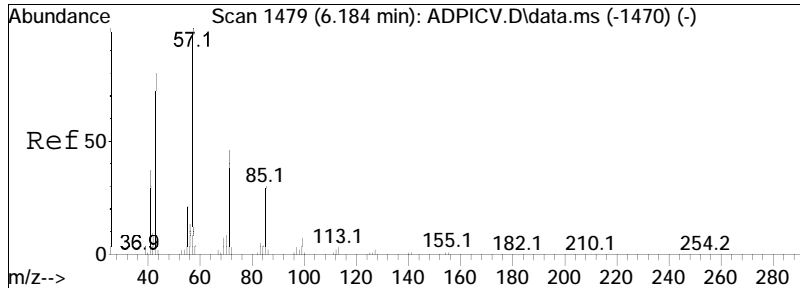




#87
 Atrazine
 Concen: 56.87 ug/ml
 RT: 6.063 min Scan# 1440
 Delta R.T. 0.000 min
 Lab File: ADP0719.D
 Acq: 19 Jul 2023 7:44 am

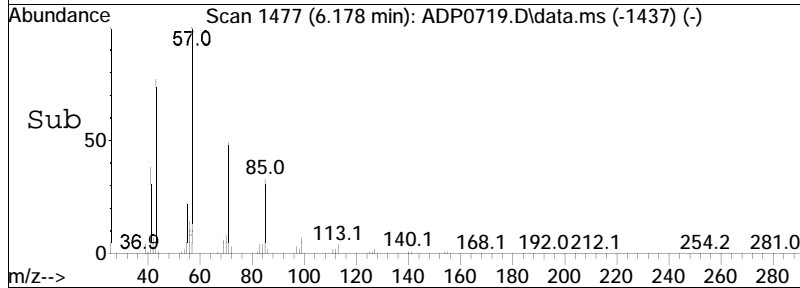
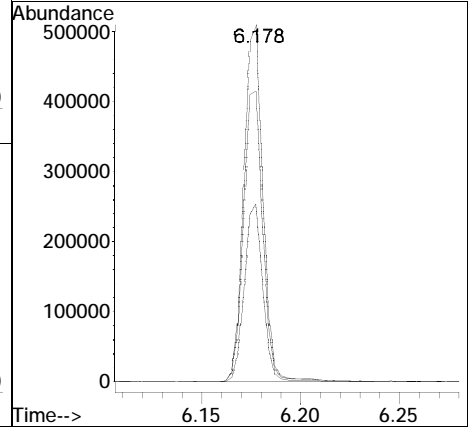
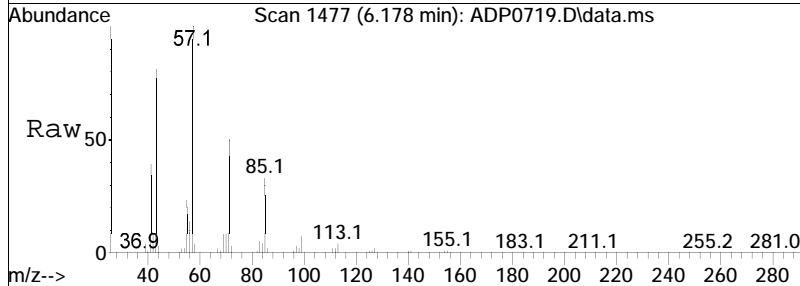
Tgt Ion	Ratio	Lower	Upper
200	100		
202	32.2	24.9	37.3
215	42.7	34.0	51.0

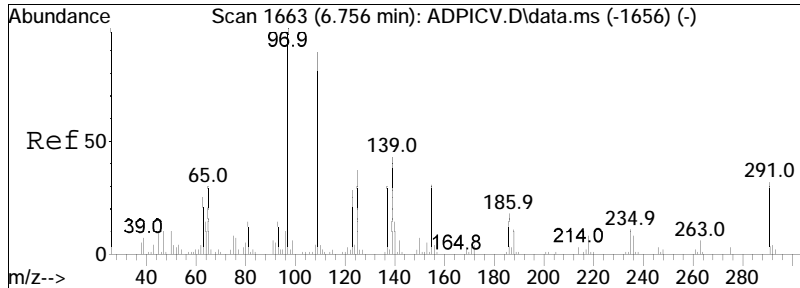




#101
 n-Octadecane
 Concen: 80.16 ug/ml
 RT: 6.178 min Scan# 1477
 Delta R.T. 0.000 min
 Lab File: ADP0719.D
 Acq: 19 Jul 2023 7:44 am

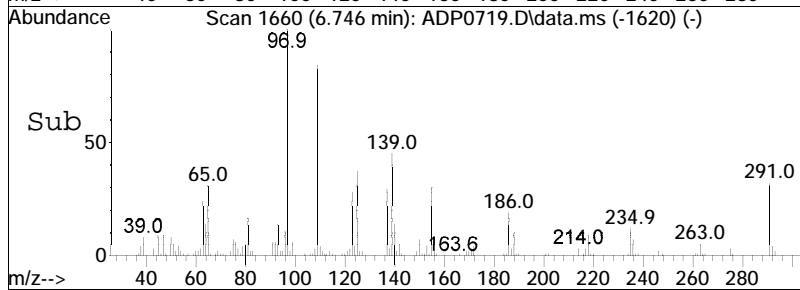
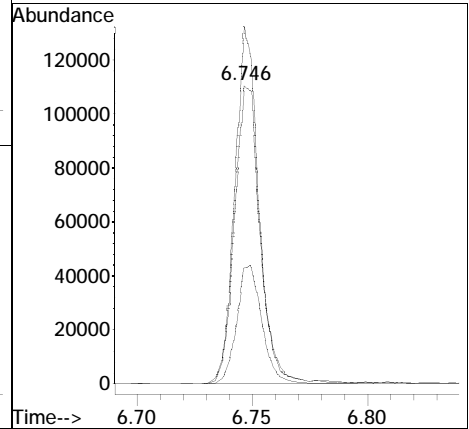
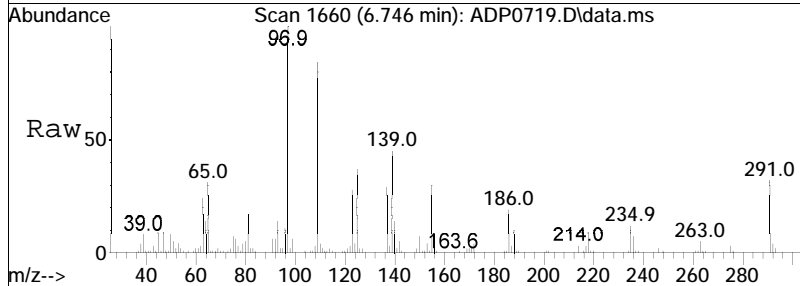
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
43	81.7	56.7	85.1
71	48.5	42.8	64.2

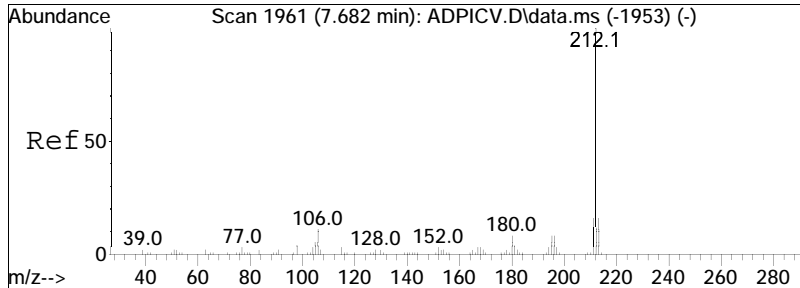




#102
 Parathion
 Concen: 76.79 ug/ml
 RT: 6.746 min Scan# 1660
 Delta R.T. 0.000 min
 Lab File: ADP0719.D
 Acq: 19 Jul 2023 7:44 am

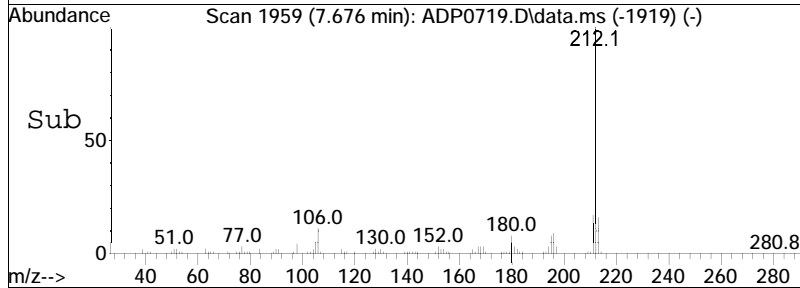
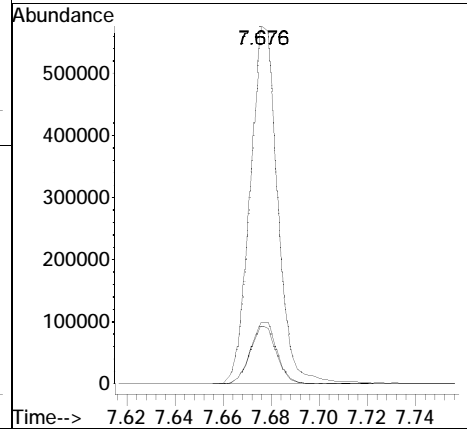
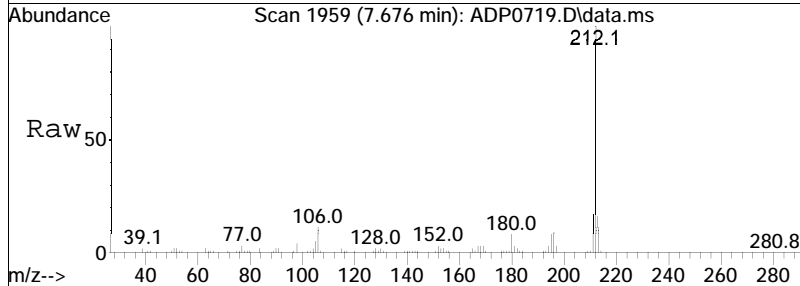
Tgt Ion	Resp	Lower	Upper
109	100		
97	113.1	85.8	128.8
291	39.6	29.8	44.8





#103
 3,3'-Dimethylbenzidine
 Concen: 58.75 ug/ml
 RT: 7.676 min Scan# 1959
 Delta R.T. 0.000 min
 Lab File: ADP0719.D
 Acq: 19 Jul 2023 7:44 am

Tgt Ion	Ratio	Lower	Upper
212	100		
211	17.1	13.5	20.3
213	15.8	13.4	20.0



Manual Integration Report

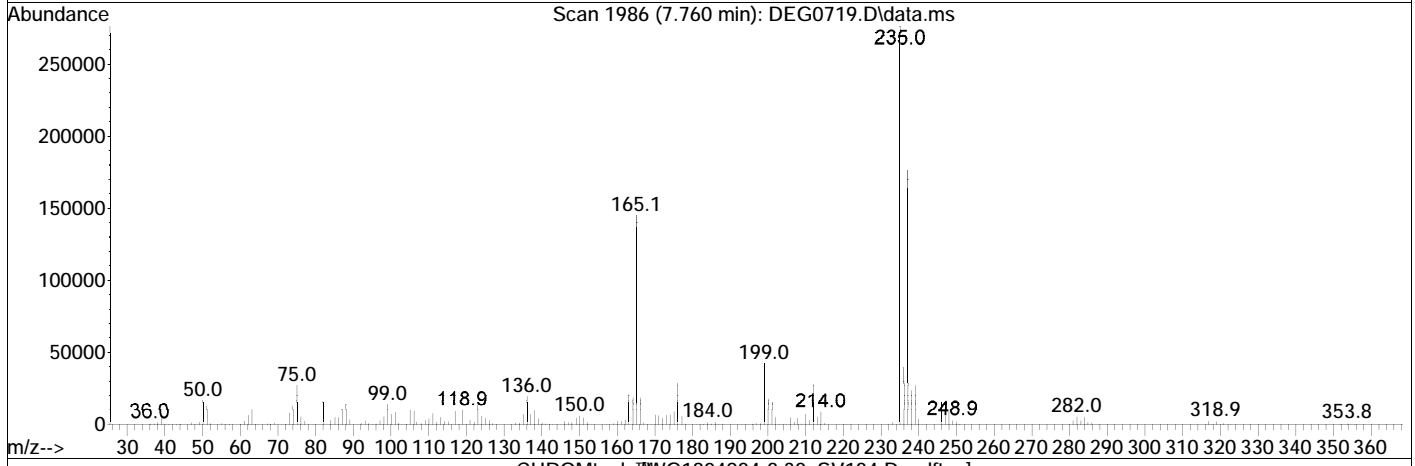
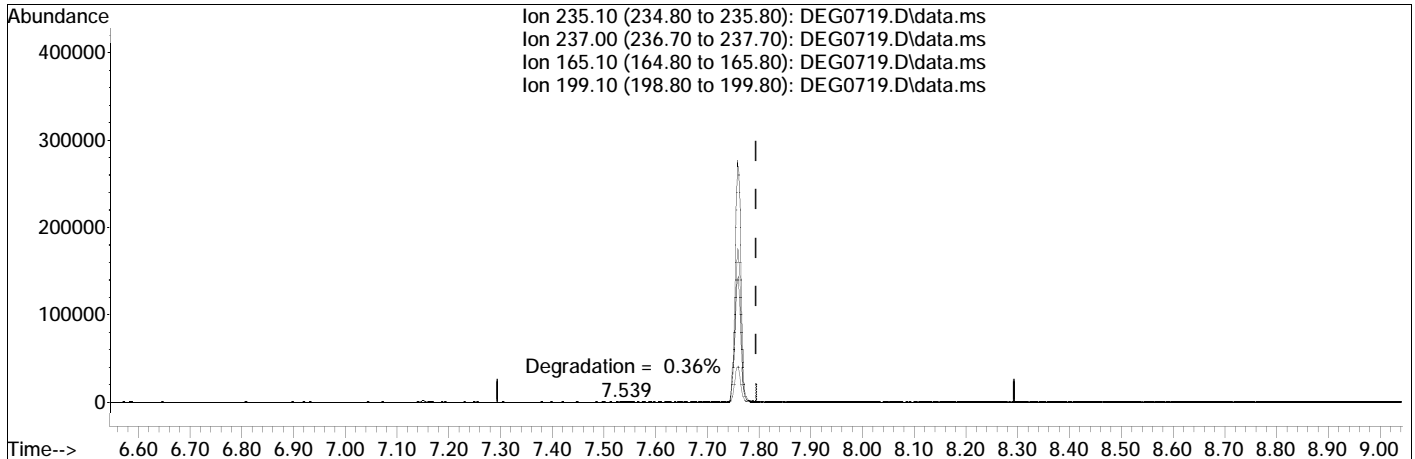
Data Path : I:\8270\SV124\230719\ QMethod : FS230526SV124.m
Data File : ADP0719.D Operator : SV124:ljpg
Date Inj'd : 7/19/2023 7:44 am Instrument : SV124
Sample : WG1804924-5,32,,ADP 10057 Quant Date : 7/19/2023 9:43 am

There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV124\230719\
 Data File : DEG0719.D
 Acq On : 19 Jul 2023 6:48 am
 Operator : SV124:ljb
 Sample : WG1804924-2,32,,SV124 Degdfpp
 Misc : WG1804924,,ical20053
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jul 19 07:11:39 2023
 Quant Method : I:\8270\SV124\230719\DftppSV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jun 19 08:14:26 2023
 Response via : Initial Calibration



(6) DDT (T)
 7.760min (-0.035) 33.98
 response 207130

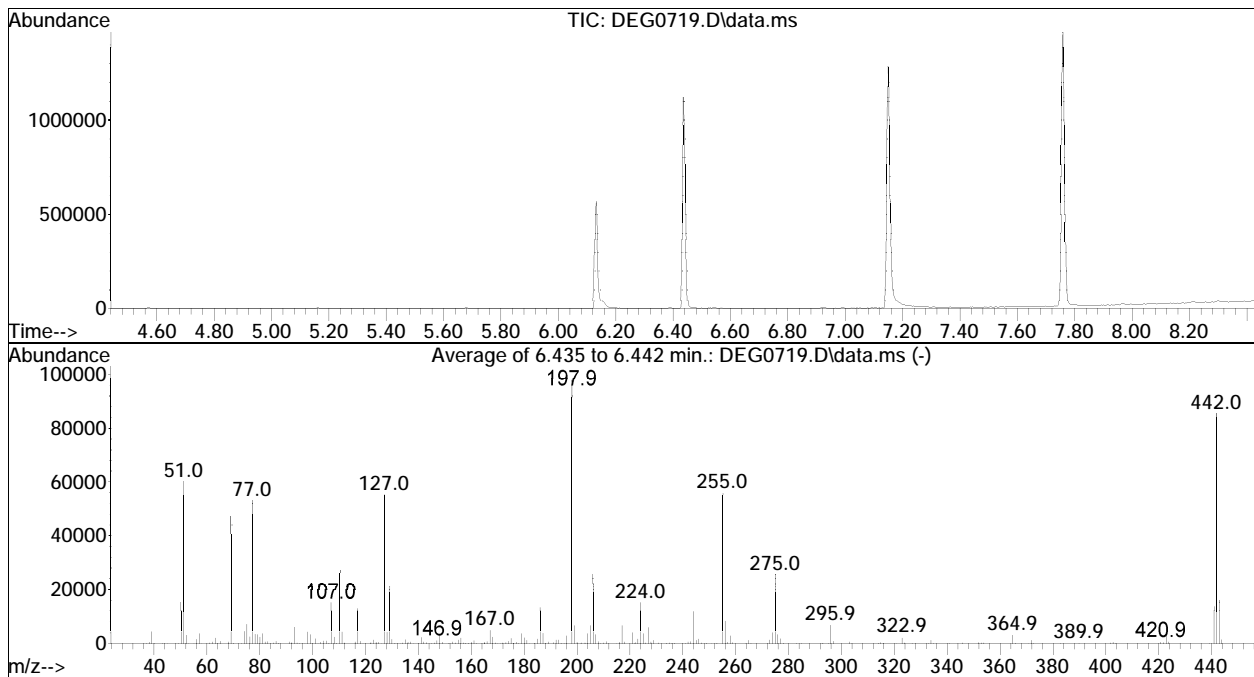
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	61.50	64.43
165.10	52.60	53.02
199.10	15.00	15.41

DFTPP

Data Path : I:\8270\SV124\230719\
 Data File : DEG0719.D
 Acq On : 19 Jul 2023 6:48 am
 Operator : SV124:gmr
 Sample : WG1804924-1,32,,SV124 Degdftpp
 Misc : WG1804924,,ical20053
 ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\sv124\230719\FS230526SV124.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Jul 19 07:45:12 2023



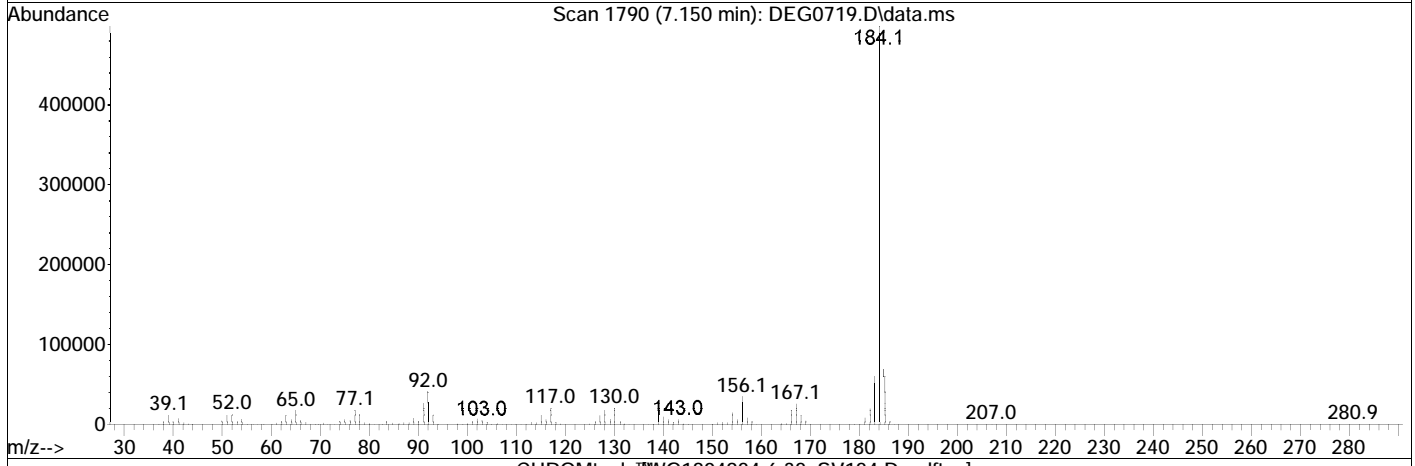
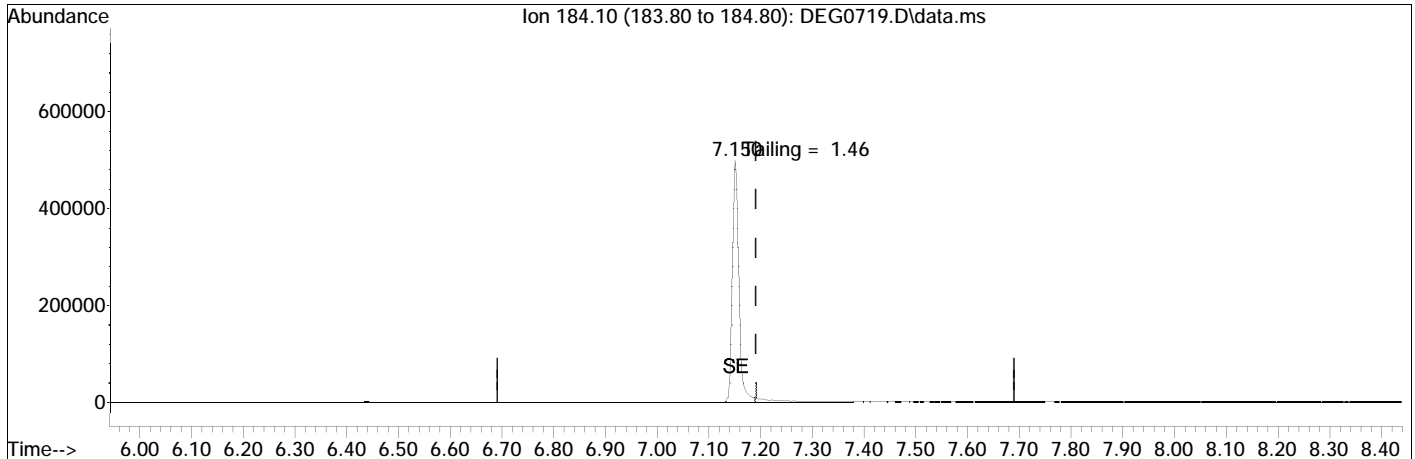
Spectrum Information: Average of 6.435 to 6.442 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	61.2	60043	PASS
68	69	0.00	2	1.7	816	PASS
69	69	0.20	100	100.0	47219	PASS
70	69	0.00	2	0.8	362	PASS
127	198	10	80	56.5	55403	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	98069	PASS
199	198	5	9	6.7	6568	PASS
275	198	10	60	26.0	25520	PASS
365	198	1	100	3.3	3248	PASS
441	442	0.01	24	15.9	13616	PASS
442	198	50	100	87.1	85445	PASS
443	442	15	24	18.6	15876	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV124\230719\
 Data File : DEG0719.D
 Acq On : 19 Jul 2023 6:48 am
 Operator : SV124:ljb
 Sample : WG1804924-6,32,,SV124 Degdfpp
 Misc : WG1804924,,ical20053
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jul 19 07:11:39 2023
 Quant Method : I:\8270\SV124\230719\DftppSV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jun 19 08:14:26 2023
 Response via : Initial Calibration



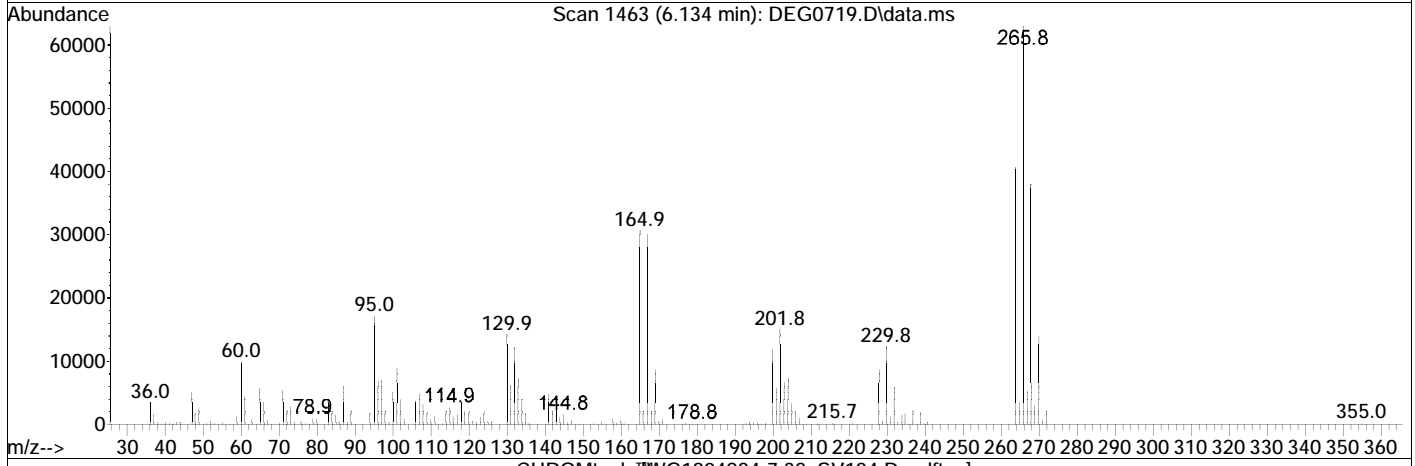
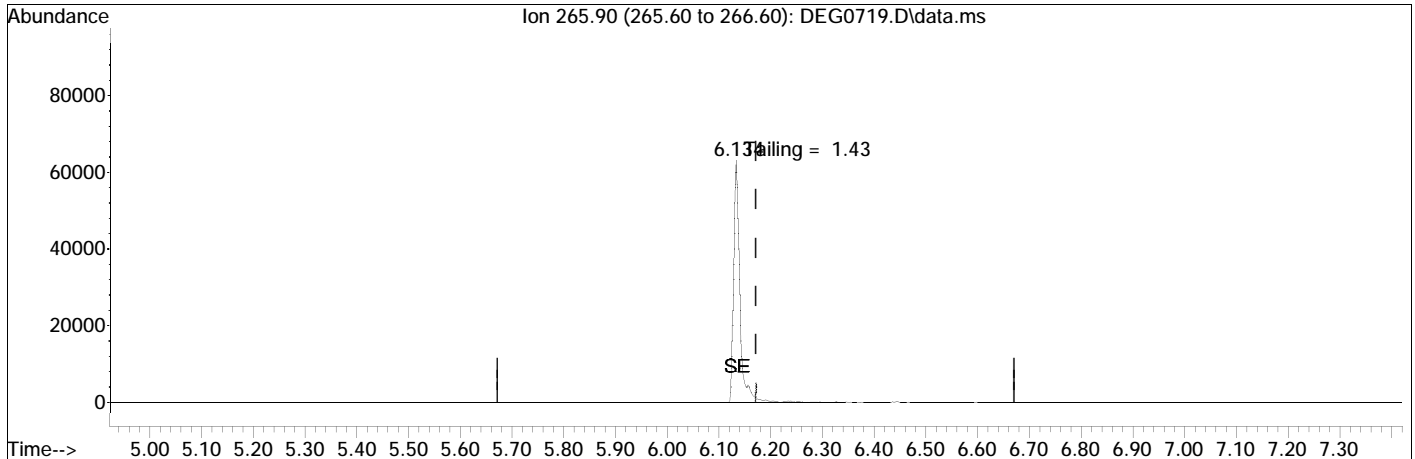
(3) Benzidine (T)
 7.150min (-0.041) 41.92
 response 426773

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV124\230719\
 Data File : DEG0719.D
 Acq On : 19 Jul 2023 6:48 am
 Operator : SV124:ljj
 Sample : WG1804924-7,32,,SV124 Degdfpp
 Misc : WG1804924,,ical20053
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jul 19 07:11:39 2023
 Quant Method : I:\8270\SV124\230719\DftppSV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jun 19 08:14:26 2023
 Response via : Initial Calibration



(1) Pentachlorophenol (T)

6.134min (-0.038) 23.77

response 49935

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV103
Lab File ID : ADP0718N
Sample No : WG1804789-5
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/18/23 20:54
Init. Calib. Date(s) : 05/15/23 05/16/23
Init. Calib. Times : 21:20 13:32

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	79	0
1,4-Dioxane	0.464	0.467	-	-0.6	20	85	0
n-Decane	1.295	1.257	-	2.9	20	76	0
IS3_Acenaphthene-d10	1	1	-	0	20	85	0
Atrazine	0.32	0.446	-	-39.4*	20	101	0
IS3_Phenanthrene-d10	1	1	-	0	20	83	0
n-Octadecane	0.402	0.467	-	-16.2	20	89	0
Parathion	50	82.947	-	-65.9*	20	144	0
3,3'-Dimethylbenzidine	50	67.557	-	-35.1*	20	103	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV103
 Lab File ID : ABN0718N
 Sample No : WG1804789-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/18/23 21:19
 Init. Calib. Date(s) : 05/15/23 05/16/23
 Init. Calib. Times : 21:20 13:32

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	154	0
n-Nitrosodimethylamine	0.713	0.647	-	9.3	20	131	0
Pyridine	1.184	1.117	-	5.7	20	135	0
2-Fluorophenol	1.115	1.065	-	4.5	20	137	0
Aniline	1.818	1.689	-	7.1	20	132	0
2-Chlorophenol	1.296	1.22	-	5.9	20	134	0
Phenol-d6	1.39	1.304	-	6.2	20	134	0
Phenol	1.587	1.376	-	13.3	20	124	0
Bis(2-chloroethyl)ether	1.121	1.056	-	5.8	20	137	0
1,3-Dichlorobenzene	1.515	1.361	-	10.2	20	133	0
1,4-Dichlorobenzene	1.548	1.396	-	9.8	20	135	0
1,2-Dichlorobenzene	1.469	1.326	-	9.7	20	132	0
Benzyl alcohol	0.883	0.972	-	-10.1	20	150	0
Bis(2-chloroisopropyl)ethe	1.794	1.237	-	31*	20	99	0
2-Methylphenol	1.107	1.052	-	5	20	134	0
Hexachloroethane	0.531	0.545	-	-2.6	20	150	0
n-Nitrosodi-n-propylamine	0.773	0.808	-	-4.5	20	146	0
3-Methylphenol/4-Methylphe	1.167	1.131	-	3.1	20	136	0
Nitrobenzene-d5	1.153	1.248	-	-8.2	20	150	0
Nitrobenzene	1.164	1.232	-	-5.8	20	146	0
Isophorone	2.108	2.154	-	-2.2	20	140	0
2-Nitrophenol	0.569	0.648	-	-13.9	20	153	0
2,4-Dimethylphenol	1.194	1.12	-	6.2	20	130	0
Bis(2-chloroethoxy)methane	1.369	1.351	-	1.3	20	141	0
2,4-Dichlorophenol	1.058	1.031	-	2.6	20	133	0
1,2,4-Trichlorobenzene	1.203	1.121	-	6.8	20	137	0
IS1_Naphthalene-d8	1	1	-	0	20	152	0
Naphthalene	1.052	0.922	-	12.4	20	128	0
Benzoic Acid	50	57.673	-	-15.3	20	178	0
4-Chloroaniline	0.109	0.109	-	0	20	142	0
Hexachlorobutadiene	0.174	0.172	-	1.1	20	146	0
p-Chloro-m-cresol	0.264	0.267	-	-1.1	20	138	0
2-Methylnaphthalene	0.655	0.592	-	9.6	20	129	0
1-Methylnaphthalene	0.205	0.198	-	3.4	20	139	0
Hexachlorocyclopentadiene	0.189	0.165	-	12.7	20	123	0
2,4,6-Trichlorophenol	0.187	0.201	-	-7.5	20	142	0
2,4,5-Trichlorophenol	0.211	0.218	-	-3.3	20	140	0
2-Fluorobiphenyl	0.752	0.693	-	7.8	20	132	0
2-Chloronaphthalene	0.645	0.588	-	8.8	20	130	0
2-Nitroaniline	0.202	0.208	-	-3	20	138	0
1,4-Dinitrobenzene	0.096	0.093	-	3.1	20	140	0
1,3-Dinitrobenzene	50	45.646	-	8.7	20	135	0
Dimethyl phthalate	0.742	0.703	-	5.3	20	131	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV103
 Lab File ID : ABN0718N
 Sample No : WG1804789-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/18/23 21:19
 Init. Calib. Date(s) : 05/15/23 05/16/23
 Init. Calib. Times : 21:20 13:32

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	0.991	0.996	-	-0.5	20	138	0
2,6-Dinitrotoluene	0.152	0.156	-	-2.6	20	134	0
1,2-Dinitrobenzene	0.067	0.066	-	1.5	20	131	0
IS1_Acenaphthene-d10	1	1	-	0	20	151	0
3-Nitroaniline	0.352	0.337	-	4.3	20	131	0
Acenaphthene	1.16	1.064	-	8.3	20	135	0
2,4-Dinitrophenol	50	62.143	-	-24.3*	20	195	0
Dibenzofuran	1.799	1.57	-	12.7	20	127	0
2,4-Dinitrotoluene	0.384	0.406	-	-5.7	20	138	0
4-Nitrophenol	0.229	0.265	-	-15.7	20	156	0
2,3,5,6-Tetrachlorophenol	0.313	0.335	-	-7	20	142	0
2,3,4,6-Tetrachlorophenol	0.324	0.336	-	-3.7	20	142	0
Diethyl phthalate	1.401	1.356	-	3.2	20	133	0
Fluorene	1.395	1.27	-	9	20	129	0
4-Chlorophenyl phenyl ethe	0.659	0.594	-	9.9	20	130	0
4-Nitroaniline	0.357	0.333	-	6.7	20	129	0
4,6-Dinitro-o-cresol	50	61.646	-	-23.3*	20	195	0
NDPA/DPA	1.192	1.065	-	10.7	20	125	0
Azobenzene	1.196	1.242	-	-3.8	20	144	0
2,4,6-Tribromophenol	0.213	0.221	-	-3.8	20	141	0
4-Bromophenyl phenyl ether	0.392	0.361	-	7.9	20	131	0
Hexachlorobenzene	0.479	0.438	-	8.6	20	133	0
Pentachlorophenol	50	44.94	-	10.1	20	138	0
IS1_Phenanthrene-d10	1	1	-	0	20	151	0
Phenanthrene	1.102	0.946	-	14.2	20	126	0
Anthracene	1.086	0.967	-	11	20	127	0
Carbazole	1.017	0.908	-	10.7	20	126	0
Di-n-butylphthalate	1.092	1.187	-	-8.7	20	139	0
Fluoranthene	1.157	1.079	-	6.7	20	131	0
Benzidine	0.729	0.693	-	4.9	20	123	0
Pyrene	1.244	1.141	-	8.3	20	130	0
4-Terphenyl-d14	0.931	0.807	-	13.3	20	123	0
Butyl benzyl phthalate	50	50.51	-	-1	20	149	0
IS1_Chrysene-d12	1	1	-	0	20	152	0
Benzo(a)anthracene	1.325	1.151	-	13.1	20	127	0
3,3'-Dichlorobenzidine	0.484	0.479	-	1	20	132	0
Chrysene	1.326	1.088	-	17.9	20	125	0
Bis(2-ethylhexyl)phthalate	50	47.655	-	4.7	20	142	0
Di-n-octylphthalate	50	48.145	-	3.7	20	146	0
Benzo(b)fluoranthene	1.286	1.119	-	13	20	123	0
Benzo(k)fluoranthene	1.32	1.134	-	14.1	20	121	0
Benzo(a)pyrene	1.109	1.004	-	9.5	20	124	0
IS1_Perylene-d12	1	1	-	0	20	147	0

* Value outside of QC limits.



**Calibration Verification Summary
Form 7
Semivolatiles**

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV103
 Lab File ID : ABN0718N
 Sample No : WG1804789-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/18/23 21:19
 Init. Calib. Date(s) : 05/15/23 05/16/23
 Init. Calib. Times : 21:20 13:32

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.853	0.854	-	-0.1	20	131	0
Dibenzo(a,h)anthracene	1.023	0.927	-	9.4	20	121	0
Benzo(ghi)perylene	1.042	0.936	-	10.2	20	122	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV103
Lab File ID : AP90718N
Sample No : WG1804789-4
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/18/23 21:42
Init. Calib. Date(s) : 05/15/23 05/16/23
Init. Calib. Times : 21:20 13:32

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
Benzaldehyde	0.86	0.848	-	1.4	20	80	0
Acetophenone	1.741	1.917	-	-10.1	20	87	0
m-Toluidine	1.485	1.559	-	-5	20	79	0
2-Chloroaniline	1.57	1.711	-	-9	20	85	0
IS2_Naphthalene-d8	1	1	-	0	20	79	0
a-Terpineol	0.231	0.272	-	-17.7	20	87	0
3-Chloroaniline	0.115	0.137	-	-19.1	20	91	0
2,6-Dichlorophenol	0.251	0.309	-	-23.1*	20	87	0
1-chloro-2-nitrobenzene	0.121	0.152	-	-25.6*	20	92	0
Caprolactam	0.131	0.147	-	-12.2	20	78	0
1,2,4,5-Tetrachlorobenzene	0.302	0.348	-	-15.2	20	89	0
Biphenyl	0.823	0.844	-	-2.6	20	78	0
IS2_Acenaphthene-d10	1	1	-	0	20	75	0
Dichloran	0.144	0.22	-	-52.8*	20	109	0
Pentachloronitrobenzene	0.135	0.201	-	-48.9*	20	102	0
IS2_Phenanthrene-d10	1	1	-	0	20	77	0
Diphenamid	0.416	0.564	-	-35.6*	20	93	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV124
 Lab File ID : ABN0719
 Sample No : WG1804924-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/19/23 07:10
 Init. Calib. Date(s) : 05/26/23 05/27/23
 Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	65	0
n-Nitrosodimethylamine	0.698	0.8	-	-14.6	20	70	0
Pyridine	50	55.863	-	-11.7	20	76	0
2-Fluorophenol	1.072	1.306	-	-21.8*	20	73	0
Aniline	1.81	2.164	-	-19.6	20	74	0
2-Chlorophenol	1.267	1.498	-	-18.2	20	72	0
Phenol-d6	1.4	1.642	-	-17.3	20	71	0
Phenol	1.514	1.682	-	-11.1	20	66	0
Bis(2-chloroethyl)ether	1.221	1.331	-	-9	20	68	0
1,3-Dichlorobenzene	1.466	1.598	-	-9	20	70	0
1,4-Dichlorobenzene	1.535	1.643	-	-7	20	69	0
1,2-Dichlorobenzene	1.47	1.578	-	-7.3	20	70	0
Benzyl alcohol	50	57.645	-	-15.3	20	73	0
Bis(2-chloroisopropyl)ethe	2.086	2.903	-	-39.2*	20	85	0
2-Methylphenol	1.186	1.316	-	-11	20	69	0
Hexachloroethane	0.595	0.678	-	-13.9	20	71	0
n-Nitrosodi-n-propylamine	0.943	1.137	-	-20.6*	20	72	0
3-Methylphenol/4-Methylphe	1.206	1.404	-	-16.4	20	71	0
Nitrobenzene-d5	1.366	1.619	-	-18.5	20	70	0
Nitrobenzene	1.392	1.607	-	-15.4	20	70	0
Isophorone	2.464	2.905	-	-17.9	20	70	0
2-Nitrophenol	0.618	0.843	-	-36.4*	20	79	0
2,4-Dimethylphenol	1.309	1.534	-	-17.2	20	70	0
Bis(2-chloroethoxy)methane	1.574	1.819	-	-15.6	20	70	0
2,4-Dichlorophenol	1.111	1.283	-	-15.5	20	70	0
1,2,4-Trichlorobenzene	1.309	1.37	-	-4.7	20	67	0
IS1_Naphthalene-d8	1	1	-	0	20	68	0
Naphthalene	1.011	1.073	-	-6.1	20	70	0
Benzoic Acid	50	49.401	-	1.2	20	70	0
4-Chloroaniline	0.125	0.149	-	-19.2	20	73	0
Hexachlorobutadiene	0.202	0.19	-	5.9	20	62	0
p-Chloro-m-cresol	0.273	0.331	-	-21.2*	20	74	0
2-Methylnaphthalene	0.655	0.701	-	-7	20	70	0
1-Methylnaphthalene	0.237	0.245	-	-3.4	20	68	0
Hexachlorocyclopentadiene	0.26	0.201	-	22.7*	20	50	0
2,4,6-Trichlorophenol	0.204	0.226	-	-10.8	20	67	0
2,4,5-Trichlorophenol	0.225	0.259	-	-15.1	20	70	0
2-Fluorobiphenyl	0.767	0.815	-	-6.3	20	70	0
2-Chloronaphthalene	0.66	0.736	-	-11.5	20	72	0
2-Nitroaniline	0.192	0.247	-	-28.6*	20	83	0
1,4-Dinitrobenzene	0.09	0.117	-	-30*	20	81	0
1,3-Dinitrobenzene	0.104	0.132	-	-26.9*	20	80	0
Dimethyl phthalate	0.776	0.892	-	-14.9	20	75	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV124
 Lab File ID : ABN0719
 Sample No : WG1804924-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/19/23 07:10
 Init. Calib. Date(s) : 05/26/23 05/27/23
 Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.034	1.202	-	-16.2	20	76	0
2,6-Dinitrotoluene	0.154	0.194	-	-26*	20	79	0
1,2-Dinitrobenzene	0.07	0.083	-	-18.6	20	76	0
IS1_Acenaphthene-d10	1	1	-	0	20	71	0
3-Nitroaniline	0.322	0.396	-	-23*	20	80	0
Acenaphthene	1.19	1.27	-	-6.7	20	73	0
2,4-Dinitrophenol	50	46.627	-	6.7	20	72	0
Dibenzofuran	1.851	1.926	-	-4.1	20	72	0
2,4-Dinitrotoluene	50	56.817	-	-13.6	20	80	0
4-Nitrophenol	50	54.707	-	-9.4	20	76	0
2,3,5,6-Tetrachlorophenol	0.364	0.359	-	1.4	20	63	0
2,3,4,6-Tetrachlorophenol	0.376	0.374	-	0.5	20	66	0
Diethyl phthalate	1.5	1.691	-	-12.7	20	73	0
Fluorene	1.531	1.53	-	0.1	20	69	0
4-Chlorophenyl phenyl ethe	0.74	0.726	-	1.9	20	66	0
4-Nitroaniline	50	56.262	-	-12.5	20	84	0
4,6-Dinitro-o-cresol	0.233	0.271	-	-16.3	20	79	0
NDPA/DPA	1.206	1.32	-	-9.5	20	74	0
Azobenzene	1.478	1.666	-	-12.7	20	73	0
2,4,6-Tribromophenol	0.241	0.247	-	-2.5	20	67	0
4-Bromophenyl phenyl ether	0.44	0.42	-	4.5	20	65	0
Hexachlorobenzene	0.539	0.51	-	5.4	20	68	0
Pentachlorophenol	50	35.906	-	28.2*	20	55	0
IS1_Phenanthrene-d10	1	1	-	0	20	72	0
Phenanthrene	1.061	1.126	-	-6.1	20	72	0
Anthracene	1.069	1.186	-	-10.9	20	74	0
Carbazole	0.937	1.078	-	-15	20	76	0
Di-n-butylphthalate	1.173	1.488	-	-26.9*	20	77	0
Fluoranthene	1.222	1.28	-	-4.7	20	73	0
Benzidine	50	62.629	-	-25.3*	20	85	0
Pyrene	1.276	1.335	-	-4.6	20	72	0
4-Terphenyl-d14	0.966	0.976	-	-1	20	70	0
Butyl benzyl phthalate	50	63.712	-	-27.4*	20	86	0
IS1_Chrysene-d12	1	1	-	0	20	72	0
Benzo(a)anthracene	1.35	1.464	-	-8.4	20	72	0
3,3'-Dichlorobenzidine	0.476	0.581	-	-22.1*	20	79	0
Chrysene	1.325	1.363	-	-2.9	20	71	0
Bis(2-ethylhexyl)phthalate	50	55.852	-	-11.7	20	77	0
Di-n-octylphthalate	50	59.345	-	-18.7	20	84	0
Benzo(b)fluoranthene	1.37	1.535	-	-12	20	75	0
Benzo(k)fluoranthene	1.33	1.477	-	-11.1	20	70	0
Benzo(a)pyrene	1.162	1.358	-	-16.9	20	73	0
IS1_Perylene-d12	1	1	-	0	20	71	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Lab File ID : ABN0719
Sample No : WG1804924-3
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/19/23 07:10
Init. Calib. Date(s) : 05/26/23 05/27/23
Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.303	1.485	-	-14	20	71	0
Dibenzo(a,h)anthracene	1.159	1.288	-	-11.1	20	69	0
Benzo(ghi)perylene	1.144	1.273	-	-11.3	20	70	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Lab File ID : AP90719
Sample No : WG1804924-4
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/19/23 07:27
Init. Calib. Date(s) : 05/26/23 05/27/23
Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	65	0
Benzaldehyde	0.783	0.905	-	-15.6	20	70	0
Acetophenone	50	57.821	-	-15.6	20	75	0
m-Toluidine	1.501	1.765	-	-17.6	20	68	0
2-Chloroaniline	1.593	1.914	-	-20.2*	20	74	0
IS2_Naphthalene-d8	1	1	-	0	20	66	0
a-Terpineol	0.292	0.402	-	-37.7*	20	86	0
3-Chloroaniline	0.129	0.148	-	-14.7	20	70	0
2,6-Dichlorophenol	0.261	0.292	-	-11.9	20	70	0
1-chloro-2-nitrobenzene	0.134	0.154	-	-14.9	20	73	0
Caprolactam	50	67.039	-	-34.1*	20	96	0
1,2,4,5-Tetrachlorobenzene	0.361	0.329	-	8.9	20	60	0
Biphenyl	0.822	0.841	-	-2.3	20	65	0
IS2_Acenaphthene-d10	1	1	-	0	20	62	0
Dichloran	50	51.568	-	-3.1	20	72	0
Pentachloronitrobenzene	0.198	0.196	-	1	20	59	0
IS2_Phenanthrene-d10	1	1	-	0	20	53	0
Diphenamid	50	60.472	-	-20.9*	20	62	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Lab File ID : ADP0719
Sample No : WG1804924-5
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/19/23 07:44
Init. Calib. Date(s) : 05/26/23 05/27/23
Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	68	0
1,4-Dioxane	0.478	0.509	-	-6.5	20	80	0
n-Decane	50	68.428	-	-36.9*	20	99	0
IS3_Acenaphthene-d10	1	1	-	0	20	71	0
Atrazine	0.387	0.44	-	-13.7	20	77	0
IS3_Phenanthrene-d10	1	1	-	0	20	62	0
n-Octadecane	0.445	0.714	-	-60.4*	20	95	0
Parathion	50	76.788	-	-53.6*	20	108	0
3,3'-Dimethylbenzidine	50	58.752	-	-17.5	20	76	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV124
 Lab File ID : ABN0720NA
 Sample No : WG1805740-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/20/23 18:48
 Init. Calib. Date(s) : 05/26/23 05/27/23
 Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	107	0
n-Nitrosodimethylamine	0.698	0.765	-	-9.6	20	111	0
Pyridine	50	53.086	-	-6.2	20	119	0
2-Fluorophenol	1.072	1.267	-	-18.2	20	117	0
Aniline	1.81	2.062	-	-13.9	20	117	0
2-Chlorophenol	1.267	1.452	-	-14.6	20	115	0
Phenol-d6	1.4	1.554	-	-11	20	111	0
Phenol	1.514	1.809	-	-19.5	20	118	0
Bis(2-chloroethyl)ether	1.221	1.324	-	-8.4	20	112	0
1,3-Dichlorobenzene	1.466	1.588	-	-8.3	20	114	0
1,4-Dichlorobenzene	1.535	1.638	-	-6.7	20	115	0
1,2-Dichlorobenzene	1.47	1.593	-	-8.4	20	117	0
Benzyl alcohol	50	54.208	-	-8.4	20	114	0
Bis(2-chloroisopropyl)ethe	2.086	2.867	-	-37.4*	20	139	0
2-Methylphenol	1.186	1.266	-	-6.7	20	111	0
Hexachloroethane	0.595	0.659	-	-10.8	20	114	0
n-Nitrosodi-n-propylamine	0.943	1.08	-	-14.5	20	114	0
3-Methylphenol/4-Methylphe	1.206	1.366	-	-13.3	20	114	0
Nitrobenzene-d5	1.366	1.534	-	-12.3	20	110	0
Nitrobenzene	1.392	1.546	-	-11.1	20	112	0
Isophorone	2.464	2.97	-	-20.5*	20	119	0
2-Nitrophenol	0.618	0.796	-	-28.8*	20	124	0
2,4-Dimethylphenol	1.309	1.457	-	-11.3	20	110	0
Bis(2-chloroethoxy)methane	1.574	1.814	-	-15.2	20	115	0
2,4-Dichlorophenol	1.111	1.283	-	-15.5	20	116	0
1,2,4-Trichlorobenzene	1.309	1.42	-	-8.5	20	116	0
IS1_Naphthalene-d8	1	1	-	0	20	113	0
Naphthalene	1.011	1.076	-	-6.4	20	117	0
Benzoic Acid	50	50.619	-	-1.2	20	120	0
4-Chloroaniline	0.125	0.147	-	-17.6	20	121	0
Hexachlorobutadiene	0.202	0.201	-	0.5	20	109	0
p-Chloro-m-cresol	0.273	0.31	-	-13.6	20	117	0
2-Methylnaphthalene	0.655	0.698	-	-6.6	20	116	-.11
1-Methylnaphthalene	0.237	0.242	-	-2.1	20	112	0
Hexachlorocyclopentadiene	0.26	0.213	-	18.1	20	88	0
2,4,6-Trichlorophenol	0.204	0.237	-	-16.2	20	116	0
2,4,5-Trichlorophenol	0.225	0.259	-	-15.1	20	117	0
2-Fluorobiphenyl	0.767	0.838	-	-9.3	20	120	0
2-Chloronaphthalene	0.66	0.718	-	-8.8	20	117	0
2-Nitroaniline	0.192	0.242	-	-26*	20	136	0
1,4-Dinitrobenzene	0.09	0.112	-	-24.4*	20	129	0
1,3-Dinitrobenzene	0.104	0.126	-	-21.2*	20	129	0
Dimethyl phthalate	0.776	0.89	-	-14.7	20	125	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV124
 Lab File ID : ABN0720NA
 Sample No : WG1805740-3
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/20/23 18:48
 Init. Calib. Date(s) : 05/26/23 05/27/23
 Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.034	1.228	-	-18.8	20	129	0
2,6-Dinitrotoluene	0.154	0.189	-	-22.7*	20	128	0
1,2-Dinitrobenzene	0.07	0.081	-	-15.7	20	123	0
IS1_Acenaphthene-d10	1	1	-	0	20	121	0
3-Nitroaniline	0.322	0.375	-	-16.5	20	130	0
Acenaphthene	1.19	1.223	-	-2.8	20	120	0
2,4-Dinitrophenol	50	45.472	-	9.1	20	119	0
Dibenzofuran	1.851	1.883	-	-1.7	20	119	0
2,4-Dinitrotoluene	50	56.855	-	-13.7	20	137	0
4-Nitrophenol	50	50.928	-	-1.9	20	119	0
2,3,5,6-Tetrachlorophenol	0.364	0.36	-	1.1	20	108	0
2,3,4,6-Tetrachlorophenol	0.376	0.368	-	2.1	20	110	0
Diethyl phthalate	1.5	1.696	-	-13.1	20	125	0
Fluorene	1.531	1.544	-	-0.8	20	118	0
4-Chlorophenyl phenyl ethe	0.74	0.724	-	2.2	20	112	0
4-Nitroaniline	50	52.994	-	-6	20	134	0
4,6-Dinitro-o-cresol	0.233	0.269	-	-15.5	20	133	0
NDPA/DPA	1.206	1.272	-	-5.5	20	122	0
Azobenzene	1.478	1.6	-	-8.3	20	120	0
2,4,6-Tribromophenol	0.241	0.253	-	-5	20	117	0
4-Bromophenyl phenyl ether	0.44	0.425	-	3.4	20	113	0
Hexachlorobenzene	0.539	0.533	-	1.1	20	120	0
Pentachlorophenol	50	40.2	-	19.6	20	105	0
IS1_Phenanthrene-d10	1	1	-	0	20	121	0
Phenanthrene	1.061	1.114	-	-5	20	121	0
Anthracene	1.069	1.165	-	-9	20	123	0
Carbazole	0.937	1.069	-	-14.1	20	126	0
Di-n-butylphthalate	1.173	1.5	-	-27.9*	20	131	0
Fluoranthene	1.222	1.278	-	-4.6	20	123	0
Benzidine	50	60.137	-	-20.3*	20	137	0
Pyrene	1.276	1.352	-	-6	20	124	0
4-Terphenyl-d14	0.966	0.991	-	-2.6	20	119	0
Butyl benzyl phthalate	50	63.464	-	-26.9*	20	145	0
IS1_Chrysene-d12	1	1	-	0	20	121	0
Benzo(a)anthracene	1.35	1.436	-	-6.4	20	120	0
3,3'-Dichlorobenzidine	0.476	0.572	-	-20.2*	20	131	0
Chrysene	1.325	1.319	-	0.5	20	116	0
Bis(2-ethylhexyl)phthalate	50	57.768	-	-15.5	20	136	0
Di-n-octylphthalate	50	60.407	-	-20.8*	20	145	0
Benzo(b)fluoranthene	1.37	1.424	-	-3.9	20	117	0
Benzo(k)fluoranthene	1.33	1.464	-	-10.1	20	117	0
Benzo(a)pyrene	1.162	1.281	-	-10.2	20	116	0
IS1_Perylene-d12	1	1	-	0	20	116	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Lab File ID : ABN0720NA
Sample No : WG1805740-3
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/20/23 18:48
Init. Calib. Date(s) : 05/26/23 05/27/23
Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.303	1.413	-	-8.4	20	110	0
Dibenzo(a,h)anthracene	1.159	1.216	-	-4.9	20	106	0
Benzo(ghi)perylene	1.144	1.185	-	-3.6	20	107	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : SV124
 Lab File ID : AP90720NA
 Sample No : WG1805740-4
 Channel :

Lab Number : L2339907
 Project Number : 2230119
 Calibration Date : 07/20/23 19:05
 Init. Calib. Date(s) : 05/26/23 05/27/23
 Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	158	0
Benzaldehyde	0.783	0.856	-	-9.3	20	162	0
Acetophenone	50	55.523	-	-11	20	175	0
m-Toluidine	1.501	1.706	-	-13.7	20	160	0
2-Chloroaniline	1.593	1.836	-	-15.3	20	172	0
IS2_Naphthalene-d8	1	1	-	0	20	161	0
a-Terpineol	0.292	0.386	-	-32.2*	20	202	0
3-Chloroaniline	0.129	0.146	-	-13.2	20	169	0
2,6-Dichlorophenol	0.261	0.297	-	-13.8	20	175	0
1-chloro-2-nitrobenzene	0.134	0.146	-	-9	20	168	0
Caprolactam	50	68.479	-	-37*	20	240	0
1,2,4,5-Tetrachlorobenzene	0.361	0.335	-	7.2	20	150	0
Biphenyl	0.822	0.854	-	-3.9	20	163	0
IS2_Acenaphthene-d10	1	1	-	0	20	155	0
Dichloran	50	55.685	-	-11.4	20	196	0
Pentachloronitrobenzene	0.198	0.211	-	-6.6	20	158	0
IS2_Phenanthrene-d10	1	1	-	0	20	146	0
Diphenamid	50	61.884	-	-23.8*	20	175	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : SV124
Lab File ID : ADP0720NA
Sample No : WG1805740-5
Channel :

Lab Number : L2339907
Project Number : 2230119
Calibration Date : 07/20/23 19:22
Init. Calib. Date(s) : 05/26/23 05/27/23
Init. Calib. Times : 17:25 02:07

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	113	0
1,4-Dioxane	0.478	0.502	-	-5	20	131	0
n-Decane	50	68.051	-	-36.1*	20	163	0
IS3_Acenaphthene-d10	1	1	-	0	20	120	0
Atrazine	0.387	0.486	-	-25.6*	20	145	0
IS3_Phenanthrene-d10	1	1	-	0	20	110	0
n-Octadecane	0.445	0.74	-	-66.3*	20	174	0
Parathion	50	77.809	-	-55.6*	20	194	0
3,3'-Dimethylbenzidine	50	60.313	-	-20.6*	20	139	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\230720na\
 Data File : ABN0720na.D
 Acq On : 20 Jul 2023 6:48 pm
 Operator : SV124:cmm
 Sample : WG1805740-3,32,,ABN 10133 gmr0708B
 Misc : WG1805740,,ical20053
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 20 19:43:21 2023
 Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jul 20 19:42:48 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	IS1_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
2 t	n-Nitrosodimethylamine	0.698	0.765	-9.6	111	0.00
3 t	Pyridine	* 50.000	53.086	-6.2	119	0.00
4 S	2-Fluorophenol	1.072	1.267	-18.2	117	0.00
5 T	Aniline	1.810	2.062	-13.9	117	0.00
6 t	2-Chlorophenol	1.267	1.452	-14.6	115	0.00
7 S	Phenol-d6	1.400	1.554	-11.0	111	0.00
8 T	Phenol	1.514	1.809	-19.5	118	0.00
9 T	Bis(2-chloroethyl)ether	1.221	1.324	-8.4	112	0.00
10 T	1,3-Dichlorobenzene	1.466	1.588	-8.3	114	0.00
11 T	1,4-Dichlorobenzene	1.535	1.638	-6.7	115	0.00
12 T	1,2-Dichlorobenzene	1.470	1.593	-8.4	117	0.00
13 t	Benzyl alcohol	* 50.000	54.208	-8.4	114	0.00
14 T	Bis(2-chloroisopropyl)ether	2.086	2.867	-37.4#	139	0.00
15 T	2-Methylphenol	1.186	1.266	-6.7	111	0.00
16 T	Hexachloroethane	0.595	0.659	-10.8	114	0.00
17 T	n-Nitrosodi-n-propylamine	0.943	1.080	-14.5	114	0.00
18 T	3-Methylphenol/4-Methylphen	1.206	1.366	-13.3	114	0.00
19 S	Nitrobenzene-d5	1.366	1.534	-12.3	110	0.00
20 T	Nitrobenzene	1.392	1.546	-11.1	112	0.00
21 T	Isophorone	2.464	2.970	-20.5#	119	0.00
22 T	2-Nitrophenol	0.618	0.796	-28.8#	124	0.00
23 T	2,4-Dimethylphenol	1.309	1.457	-11.3	110	0.00
24 T	Bis(2-chloroethoxy)methane	1.574	1.814	-15.2	115	0.00
25 T	2,4-Dichlorophenol	1.111	1.283	-15.5	116	0.00
26 T	1,2,4-Trichlorobenzene	1.309	1.420	-8.5	116	0.00
35 I	IS1_Naphthalene-d8	1.000	1.000	0.0	113	0.00
36 T	Naphthalene	1.011	1.076	-6.4	117	0.00
37 T	Benzoic Acid	* 50.000	50.619	-1.2	120	0.00
38 T	4-Chloroaniline	0.125	0.147	-17.6	121	0.00
39 T	Hexachlorobutadiene	0.202	0.201	0.5	109	0.00
40 T	p-Chloro-m-cresol	0.273	0.310	-13.6	117	0.00
41 T	2-Methylnaphthalene	0.655	0.698	-6.6	116	-0.11
42 T	1-Methylnaphthalene	0.237	0.242	-2.1	112	0.00
43 T	Hexachlorocyclopentadiene	0.260	0.213	18.1	88	0.00
44 T	2,4,6-Trichlorophenol	0.204	0.237	-16.2	116	0.00
45 T	2,4,5-Trichlorophenol	0.225	0.259	-15.1	117	0.00
46 S	2-Fluorobiphenyl	0.767	0.838	-9.3	120	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\230720na\
 Data File : ABN0720na.D
 Acq On : 20 Jul 2023 6:48 pm
 Operator : SV124:cmm
 Sample : WG1805740-3,32,,ABN 10133 gmr0708B
 Misc : WG1805740,,ical20053
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 20 19:43:21 2023
 Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jul 20 19:42:48 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

-----		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47 T		2-Chloronaphthalene	0.660	0.718	-8.8	117	0.00
48 T		2-Nitroaniline	0.192	0.242	-26.0#	136	0.00
49 T		1,4-Dinitrobenzene	0.090	0.112	-24.4#	129	0.00
50 T		1,3-Dinitrobenzene	0.104	0.126	-21.2#	129	0.00
51 T		Dimethyl phthalate	0.776	0.890	-14.7	125	0.00
52 T		Acenaphthylene	1.034	1.228	-18.8	129	0.00
53 T		2,6-Dinitrotoluene	0.154	0.189	-22.7#	128	0.00
54 T		1,2-Dinitrobenzene	0.070	0.081	-15.7	123	0.00
63 I		IS1_Acenaphthene-d10	1.000	1.000	0.0	121	0.00
64 T		3-Nitroaniline	0.322	0.375	-16.5	130	0.00
65 T		Acenaphthene	1.190	1.223	-2.8	120	0.00
66 T	*	2,4-Dinitrophenol	50.000	45.472	9.1	119	0.00
67 T		Dibenzofuran	1.851	1.883	-1.7	119	0.00
68 T	*	2,4-Dinitrotoluene	50.000	56.855	-13.7	137	0.00
69 T	*	4-Nitrophenol	50.000	50.928	-1.9	119	0.00
70 T		2,3,5,6-Tetrachlorophenol	0.364	0.360	1.1	108	0.00
71 T		2,3,4,6-Tetrachlorophenol	0.376	0.368	2.1	110	0.00
72 T		Diethyl phthalate	1.500	1.696	-13.1	125	0.00
73 T		Fluorene	1.531	1.544	-0.8	118	0.00
74 T		4-Chlorophenyl phenyl ether	0.740	0.724	2.2	112	0.00
75 T	*	4-Nitroaniline	50.000	52.994	-6.0	134	0.00
76 T		4,6-Dinitro-o-cresol	0.233	0.269	-15.5	133	0.00
77 T		NDPA/DPA	1.206	1.272	-5.5	122	0.00
78 T		Azobenzene	1.478	1.600	-8.3	120	0.00
79 S		2,4,6-Tribromophenol	0.241	0.253	-5.0	117	0.00
80 T		4-Bromophenyl phenyl ether	0.440	0.425	3.4	113	0.00
81 T		Hexachlorobenzene	0.539	0.533	1.1	120	0.00
82 T	*	Pentachlorophenol	50.000	40.200	19.6	105	0.00
88 I		IS1_Phenanthrene-d10	1.000	1.000	0.0	121	0.00
89 T		Phenanthrene	1.061	1.114	-5.0	121	0.00
90 T		Anthracene	1.069	1.165	-9.0	123	0.00
91 T		Carbazole	0.937	1.069	-14.1	126	0.00
92 T		Di-n-butylphthalate	1.173	1.500	-27.9#	131	0.00
93 T		Fluoranthene	1.222	1.278	-4.6	123	0.00
94 T	*	Benzidine	50.000	60.137	-20.3#	137	0.00
95 T		Pyrene	1.276	1.352	-6.0	124	0.00
96 S		4-Terphenyl-d14	0.966	0.991	-2.6	119	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\230720na\
 Data File : ABN0720na.D
 Acq On : 20 Jul 2023 6:48 pm
 Operator : SV124:cmm
 Sample : WG1805740-3,32,,ABN 10133 gmr0708B
 Misc : WG1805740,,ical20053
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 20 19:43:21 2023
 Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jul 20 19:42:48 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
97 T	Butyl benzyl phthalate	*	50.000	63.464	-26.9#	145	0.00
104 I	IS1_Chrysene-d12		1.000	1.000	0.0	121	0.00
105 T	Benzo(a)anthracene		1.350	1.436	-6.4	120	0.00
106 T	3,3'-Dichlorobenzidine		0.476	0.572	-20.2#	131	0.00
107 T	Chrysene		1.325	1.319	0.5	116	0.00
108 T	Bis(2-ethylhexyl)phthalate	*	50.000	57.768	-15.5	136	0.00
109 T	Di-n-octylphthalate	*	50.000	60.407	-20.8#	145	0.00
110 T	Benzo(b)fluoranthene		1.370	1.424	-3.9	117	0.00
111 T	Benzo(k)fluoranthene		1.330	1.464	-10.1	117	0.00
112 T	Benzo(a)pyrene		1.162	1.281	-10.2	116	0.00
113 I	IS1_Perylene-d12		1.000	1.000	0.0	116	0.00
114 T	Indeno(1,2,3-cd)pyrene		1.303	1.413	-8.4	110	0.00
115 T	Dibenzo(a,h)anthracene		1.159	1.216	-4.9	106	0.00
116 T	Benzo(ghi)perylene		1.144	1.185	-3.6	107	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
 Data File : ABN0720na.D
 Acq On : 20 Jul 2023 6:48 pm
 Operator : SV124:cmm
 Sample : WG1805740-3,32,,ABN 10133 gmr0708B
 Misc : WG1805740,,ical20053
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 20 19:43:21 2023
 Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jul 20 19:42:48 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.352	152	138416	40.000	ug/ml	0.00
35) IS1_Naphthalene-d8	4.132	136	577409	40.000	ug/ml	# 0.00
63) IS1_Acenaphthene-d10	5.254	164	323195	40.000	ug/ml	0.00
88) IS1_Phenanthrene-d10	6.218	188	662978	40.000	ug/ml	0.00
104) IS1_Chrysene-d12	8.098	240	613530	40.000	ug/ml	0.00
113) IS1_Perylene-d12	9.189	264	720061	40.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.616	112	219168	59.104	ug/ml	0.00
Spiked Amount	50.000	Range 15 - 110	Recovery =	118.21%#		
7) Phenol-d6	3.135	99	268815	55.499	ug/ml	0.00
Spiked Amount	50.000	Range 15 - 110	Recovery =	111.00%#		
19) Nitrobenzene-d5	3.685	82	265393	56.135	ug/ml	0.00
Spiked Amount	25.000	Range 30 - 130	Recovery =	224.54%#		
46) 2-Fluorobiphenyl	4.819	172	604644	54.581	ug/ml	0.00
Spiked Amount	25.000	Range 30 - 130	Recovery =	218.32%#		
79) 2,4,6-Tribromophenol	5.767	330	102402	52.484	ug/ml	0.00
Spiked Amount	50.000	Range 15 - 110	Recovery =	104.97%		
96) 4-Terphenyl-d14	7.303	244	821294	51.279	ug/ml	0.00
Spiked Amount	25.000	Range 30 - 130	Recovery =	205.12%#		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	1.913	74	132346	54.755	ug/ml	83
3) Pyridine	1.938	79	236561	53.086	ug/ml	89
5) Aniline	3.160	93	356684	56.950	ug/ml	93
6) 2-Chlorophenol	3.231	128	251220	57.318	ug/ml	98
8) Phenol	3.144	94	312946	59.736	ug/ml#	91
9) Bis(2-chloroethyl)ether	3.194	93	229140	54.216	ug/ml	94
10) 1,3-Dichlorobenzene	3.321	146	274769	54.158	ug/ml	97
11) 1,4-Dichlorobenzene	3.362	146	283356	53.333	ug/ml	97
12) 1,2-Dichlorobenzene	3.455	146	275705	54.185	ug/ml	97
13) Benzyl alcohol	3.433	79	195162	54.208	ug/ml	93
14) Bis(2-chloroisopropyl)...	3.514	45	496064	68.708	ug/ml	94
15) 2-Methylphenol	3.502	108	219012	53.349	ug/ml	99
16) Hexachloroethane	3.657	117	113974	55.366	ug/ml#	85
17) n-Nitrosodi-n-propylamine	3.595	70	186933	57.289	ug/ml	99
18) 3-Methylphenol/4-Methy...	3.595	108	236290	56.627	ug/ml	99
20) Nitrobenzene	3.697	77	267498	55.525	ug/ml	97
21) Isophorone	3.847	82	513851	60.270	ug/ml	99
22) 2-Nitrophenol	3.896	139	137752	64.377	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
 Data File : ABN0720na.D
 Acq On : 20 Jul 2023 6:48 pm
 Operator : SV124:cmm
 Sample : WG1805740-3,32,,ABN 10133 gmr0708B
 Misc : WG1805740,,ical20053
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 20 19:43:21 2023
 Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jul 20 19:42:48 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	3.921	107	252133	55.643	ug/ml	96
24) Bis(2-chloroethoxy)met...	3.977	93	313848	57.625	ug/ml	100
25) 2,4-Dichlorophenol	4.045	162	221924	57.730	ug/ml	96
26) 1,2,4-Trichlorobenzene	4.098	180	245705	54.245	ug/ml	97
36) Naphthalene	4.145	128	776572	53.187	ug/ml	100
37) Benzoic Acid	3.983	105	180683	50.619	ug/ml	95
38) 4-Chloroaniline	4.179	65	106262	58.715	ug/ml	96
39) Hexachlorobutadiene	4.226	225	144917	49.785	ug/ml	99
40) p-Chloro-m-cresol	4.490	107	223860	56.751	ug/ml	93
41) 2-Methylnaphthalene	4.586	142	503643	53.272	ug/ml	95
42) 1-Methylnaphthalene	4.648	115	174978	51.049	ug/ml	89
43) Hexachlorocyclopentadiene	4.689	237	153421	40.943	ug/ml	97
44) 2,4,6-Trichlorophenol	4.767	196	170769	58.010	ug/ml	94
45) 2,4,5-Trichlorophenol	4.791	196	186742	57.623	ug/ml	96
47) 2-Chloronaphthalene	4.897	162	518313	54.373	ug/ml	97
48) 2-Nitroaniline	4.965	138	174567	63.139	ug/ml	94
49) 1,4-Dinitrobenzene	5.049	168	80630	62.381	ug/ml	90
50) 1,3-Dinitrobenzene	5.102	168	91254	60.802	ug/ml	94
51) Dimethyl phthalate	5.080	163	642054	57.313	ug/ml	99
52) Acenaphthylene	5.161	152	886519	59.395	ug/ml	99
53) 2,6-Dinitrotoluene	5.118	165	136222	61.202	ug/ml	95
54) 1,2-Dinitrobenzene	5.155	168	58378	57.902	ug/ml	96
64) 3-Nitroaniline	5.230	138	151522	58.212	ug/ml	93
65) Acenaphthene	5.276	154	494277	51.422	ug/ml	92
66) 2,4-Dinitrophenol	5.301	184	79117	45.472	ug/ml	91
67) Dibenzofuran	5.388	168	760863	50.861	ug/ml	96
68) 2,4-Dinitrotoluene	5.385	165	198723	56.855	ug/ml	91
69) 4-Nitrophenol	5.345	65	116717	50.928	ug/ml	98
70) 2,3,5,6-Tetrachlorophenol	5.444	232	145535	49.480	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	5.472	232	148798	48.995	ug/ml	99
72) Diethyl phthalate	5.537	149	684990	56.515	ug/ml	99
73) Fluorene	5.609	166	623754	50.426	ug/ml	95
74) 4-Chlorophenyl phenyl ...	5.606	204	292682	48.940	ug/ml	91
75) 4-Nitroaniline	5.627	138	152395	52.994	ug/ml	82
76) 4,6-Dinitro-o-cresol	5.652	198	108578	57.560	ug/ml	93
77) NDPA/DPA	5.687	169	513701	52.702	ug/ml	96
78) Azobenzene	5.711	77	646482	54.121	ug/ml	99
80) 4-Bromophenyl phenyl e...	5.926	248	171786	48.268	ug/ml#	90
81) Hexachlorobenzene	5.976	284	215237	49.382	ug/ml	92
82) Pentachlorophenol	6.103	266	108221	40.200	ug/ml	99
89) Phenanthrene	6.234	178	923431	52.527	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
 Data File : ABN0720na.D
 Acq On : 20 Jul 2023 6:48 pm
 Operator : SV124:cmm
 Sample : WG1805740-3,32,,ABN 10133 gmr0708B
 Misc : WG1805740,,ical20053
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 20 19:43:21 2023
 Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jul 20 19:42:48 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Anthracene	6.268	178	965093	54.468	ug/ml	98
91) Carbazole	6.373	167	885785	57.042	ug/ml	99
92) Di-n-butylphthalate	6.603	149	1243141	63.944	ug/ml	99
93) Fluoranthene	7.032	202	1058714	52.286	ug/ml	98
94) Benzidine	7.126	184	724583	60.137	ug/ml	98
95) Pyrene	7.194	202	1120512	52.990	ug/ml	98
97) Butyl benzyl phthalate	7.663	149	580302	63.464	ug/ml	94
105) Benzo(a)anthracene	8.089	228	1100979	53.171	ug/ml	98
106) 3,3'-Dichlorobenzidine	8.070	252	438847	60.077	ug/ml	98
107) Chrysene	8.117	228	1011881	49.783	ug/ml	98
108) Bis(2-ethylhexyl)phtha...	8.111	149	957632	57.768	ug/ml#	97
109) Di-n-octylphthalate	8.611	149	1585977	60.407	ug/ml	100
110) Benzo(b)fluoranthene	8.910	252	1091960	51.952	ug/ml	99
111) Benzo(k)fluoranthene	8.931	252	1123041	55.051	ug/ml	98
112) Benzo(a)pyrene	9.149	252	982056	55.081	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	9.910	276	1271958	54.227	ug/mL	94
115) Dibenzo(a,h)anthracene	9.917	278	1094235	52.435	ug/ml	97
116) Benzo(ghi)perylene	10.094	276	1066871	51.792	ug/ml#	92

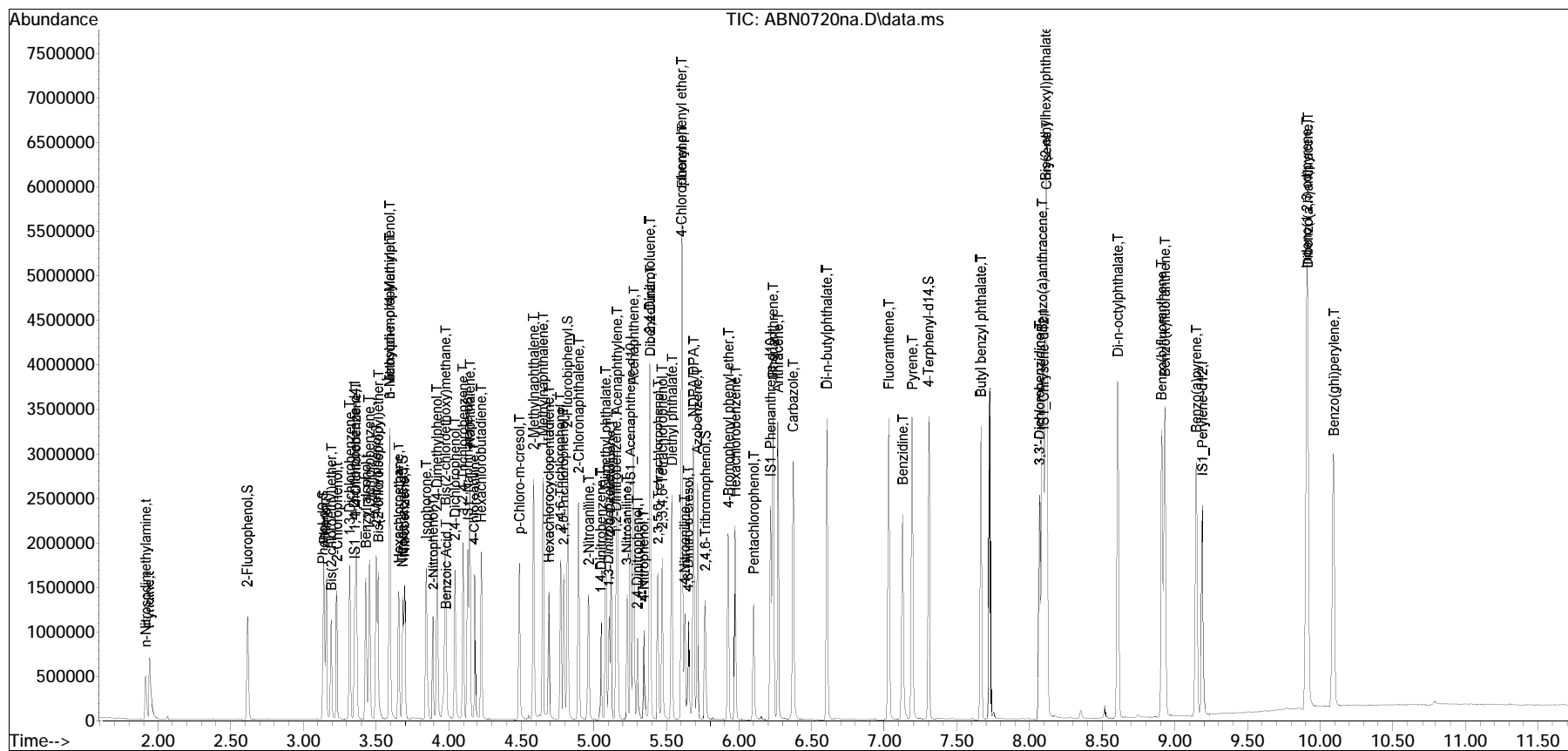
(#) = qualifier out of range (m) = manual integration (+) = signals summed

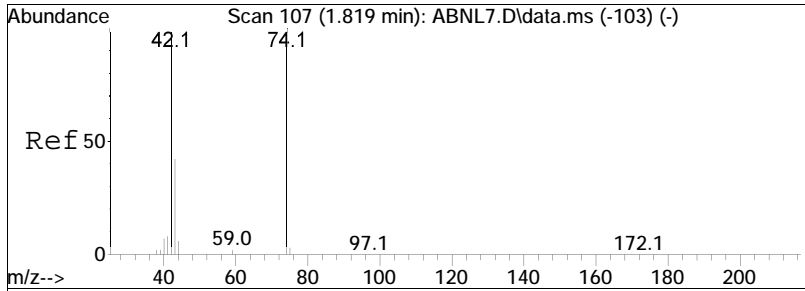
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
 Data File : ABN0720na.D
 Acq On : 20 Jul 2023 6:48 pm
 Operator : SV124:cmm
 Sample : WG1805740-3,32,,ABN 10133 gmr0708B
 Misc : WG1805740,,ical20053
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jul 20 19:43:21 2023
 Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jul 20 19:42:48 2023
 Response via : Initial Calibration

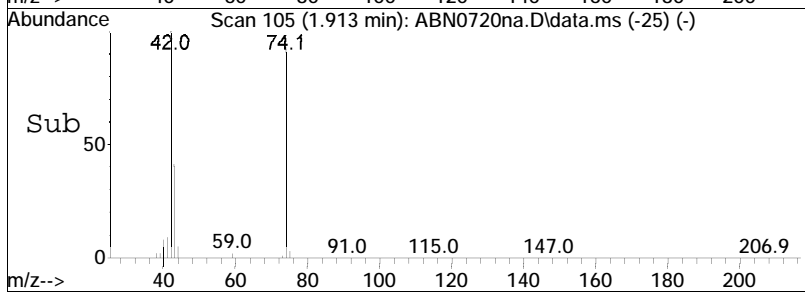
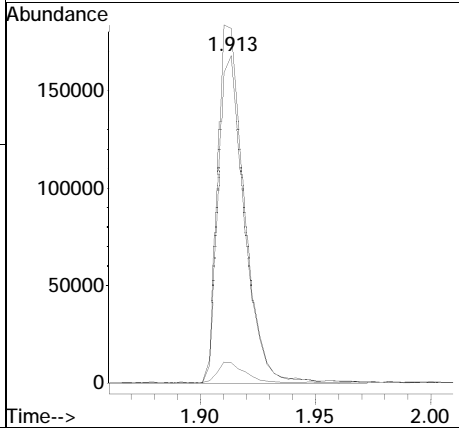
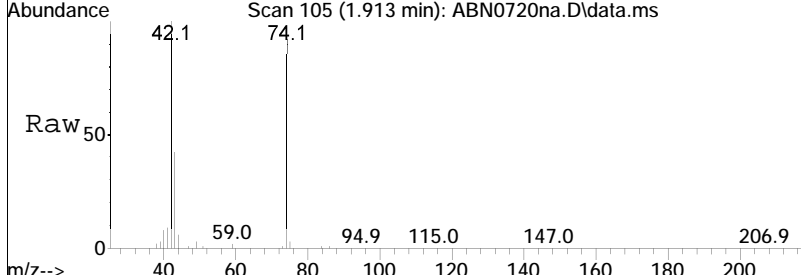
Sub List : ABNical - ABN ical sublist

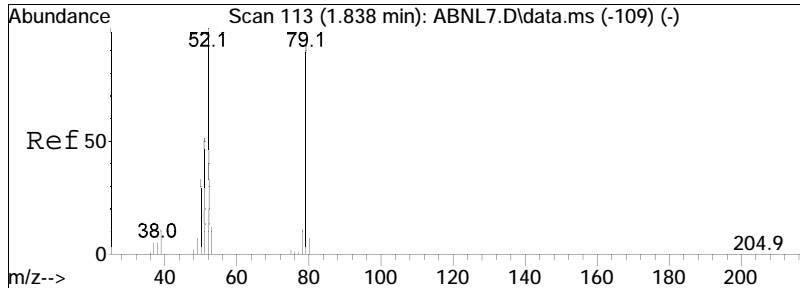




#2
 n-Nitrosodimethylamine
 Concen: 54.75 ug/ml
 RT: 1.913 min Scan# 105
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

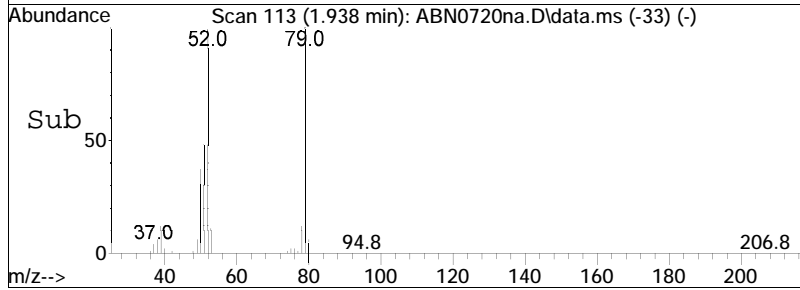
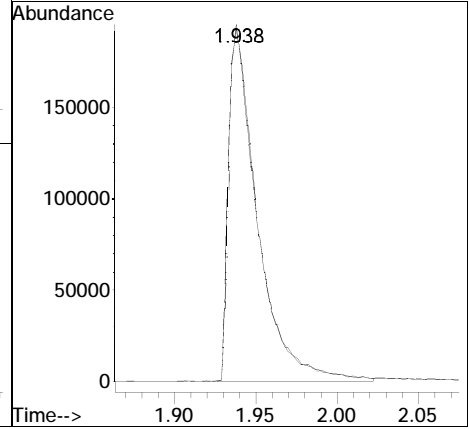
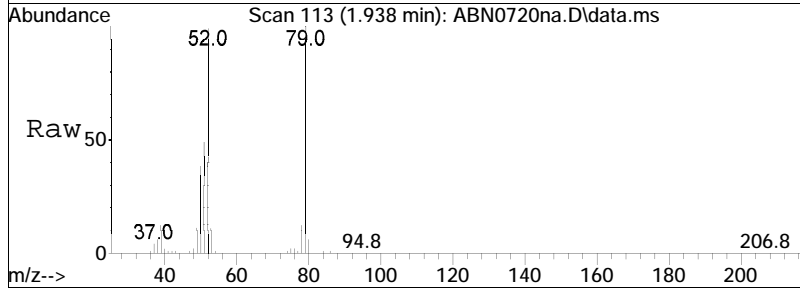
Tgt Ion	Ratio	Lower	Upper
74	100		
42	110.3	74.5	111.7
44	6.3	5.5	8.3

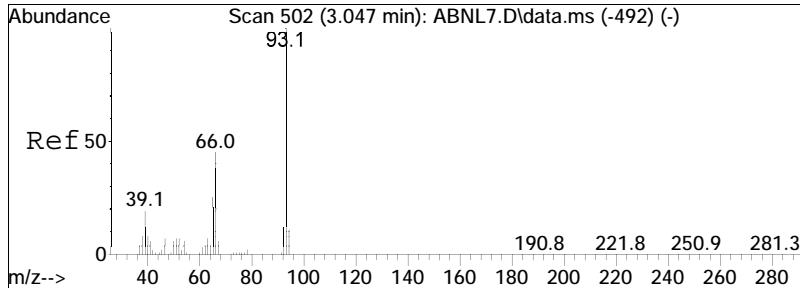




#3
 Pyridine
 Concen: 53.09 ug/ml
 RT: 1.938 min Scan# 113
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

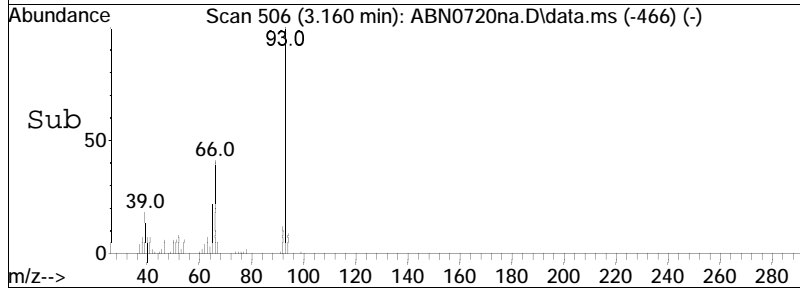
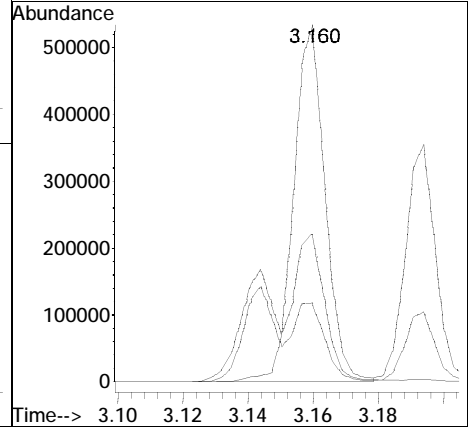
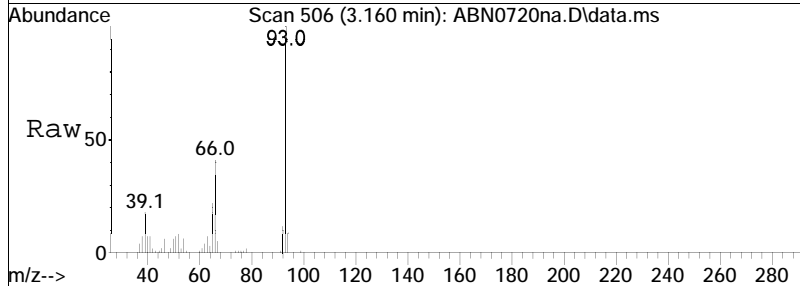
Tgt Ion	Resp	Lower	Upper
79	100		
52	101.3	72.9	109.3

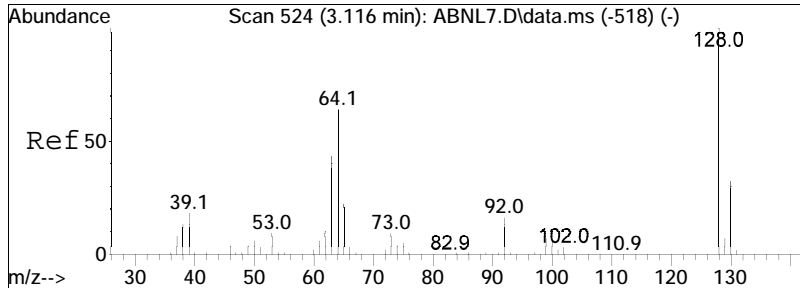




#5
 Aniline
 Concen: 56.95 ug/ml
 RT: 3.160 min Scan# 506
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

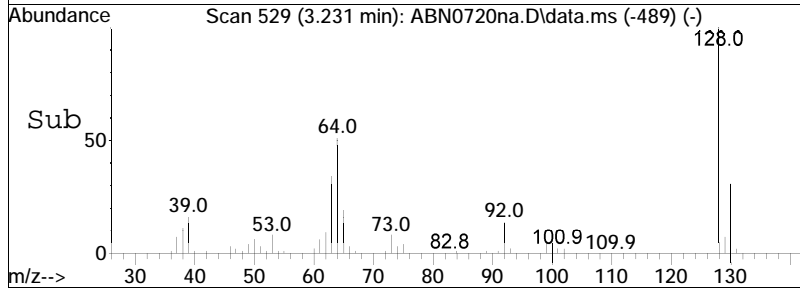
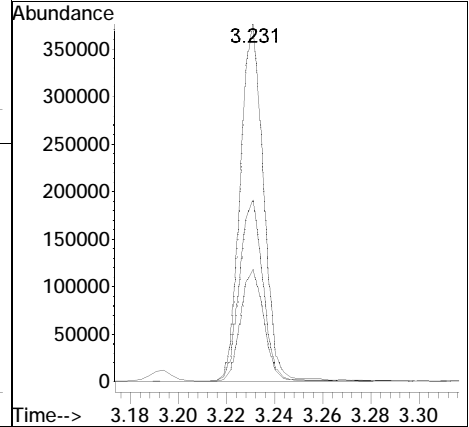
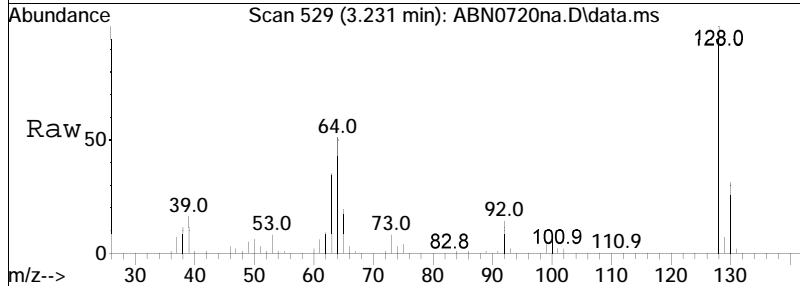
Tgt Ion:	93	Resp:	356684
Ion Ratio	Lower	Upper	
93	100		
66	40.4	37.3	55.9
65	22.5	16.7	25.1

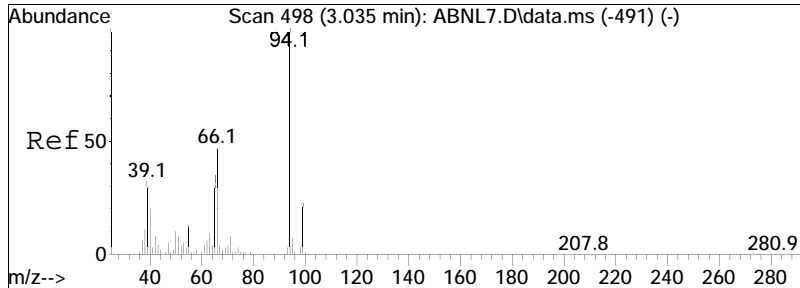




#6
 2-Chlorophenol
 Concen: 57.32 ug/ml
 RT: 3.231 min Scan# 529
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

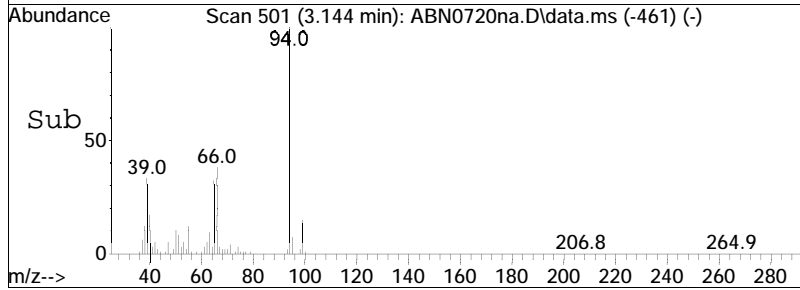
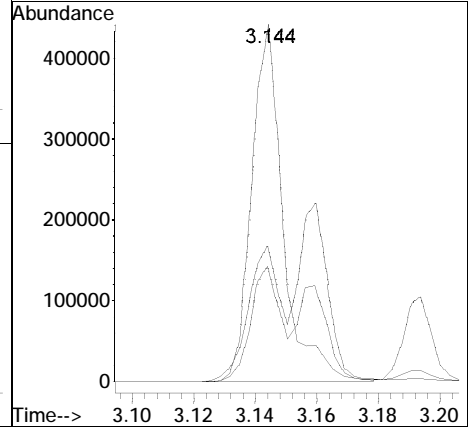
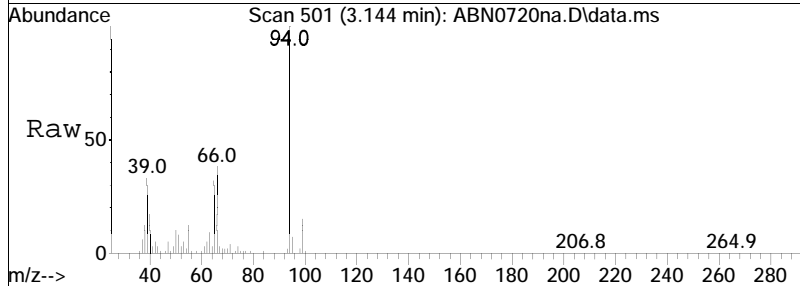
Tgt Ion	Ratio	Lower	Upper
128	100		
64	50.9	42.7	64.1
130	31.9	25.8	38.6

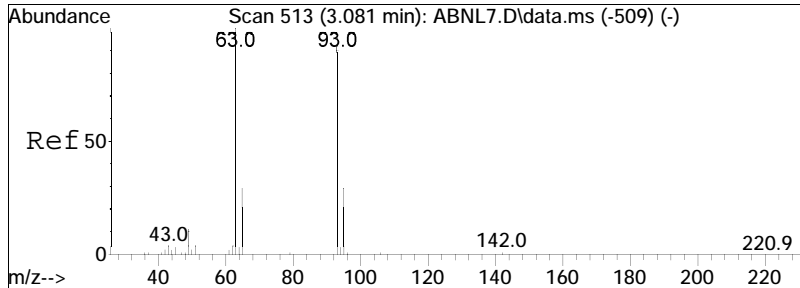




#8
 Phenol
 Concen: 59.74 ug/ml
 RT: 3.144 min Scan# 501
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

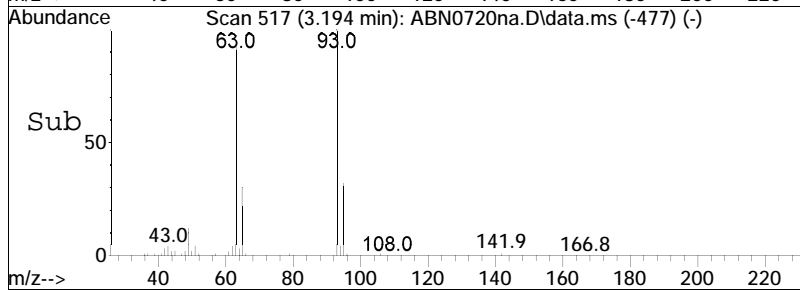
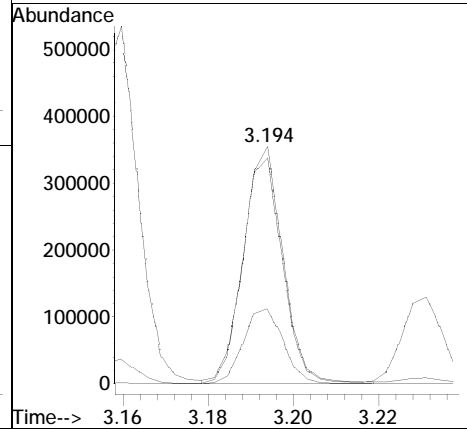
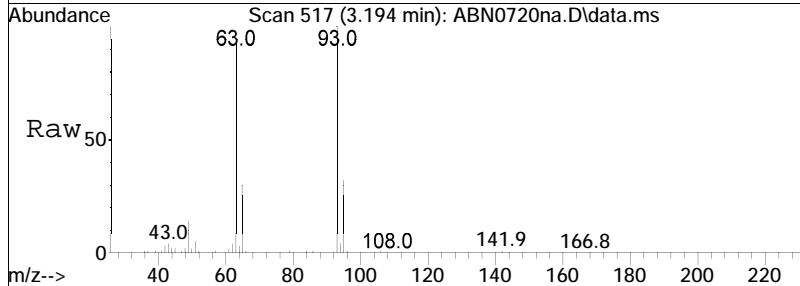
Tgt Ion:	94	Resp:	312946
Ion Ratio	100	Lower	Upper
65	30.3	20.5	30.7
66	39.3	0.0	0.0#

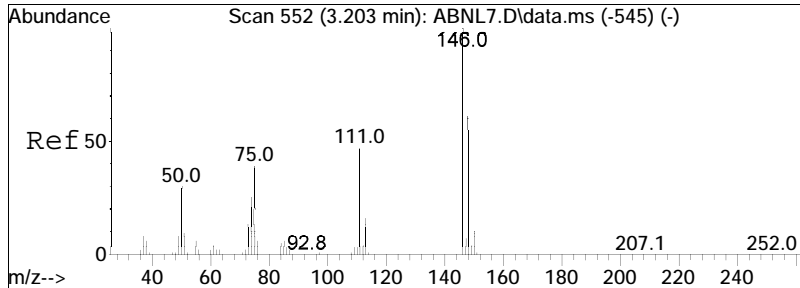




#9
 Bis(2-chloroethyl)ether
 Concen: 54.22 ug/ml
 RT: 3.194 min Scan# 517
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

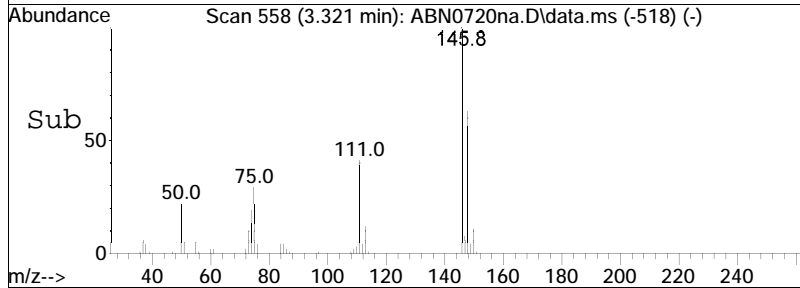
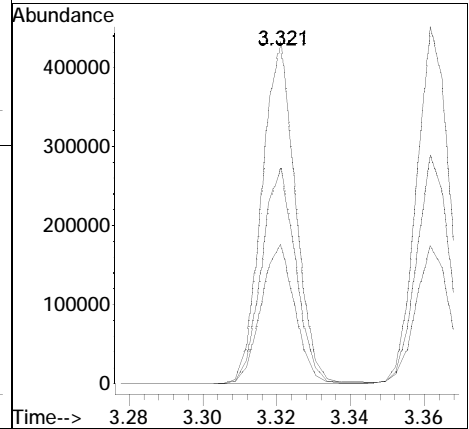
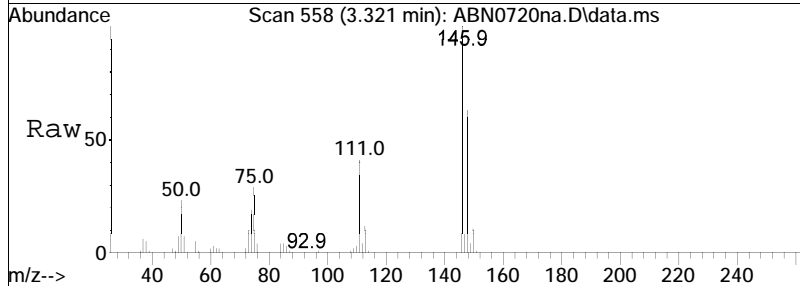
Tgt Ion:	93	Resp:	229140
Ion Ratio	Lower	Upper	
93	100		
63	95.7	70.4	105.6
95	32.4	25.8	38.6

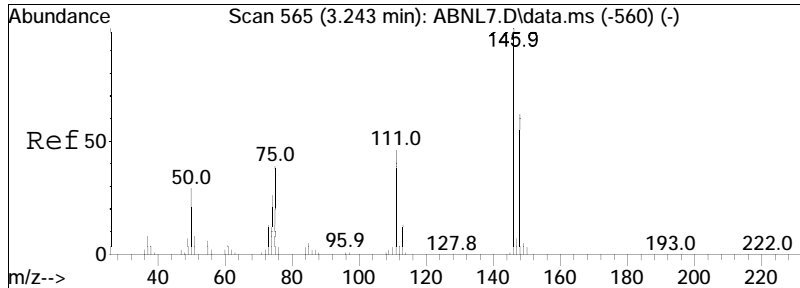




#10
 1,3-Dichlorobenzene
 Concen: 54.16 ug/ml
 RT: 3.321 min Scan# 558
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

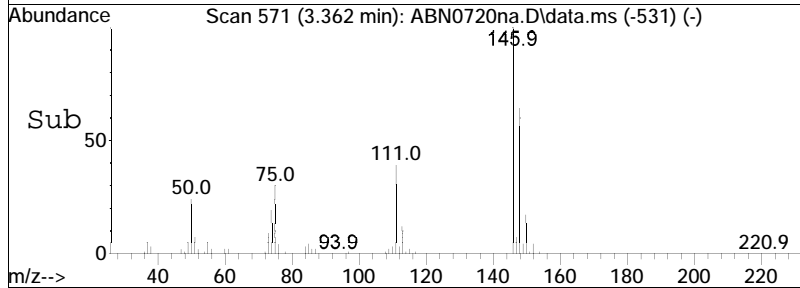
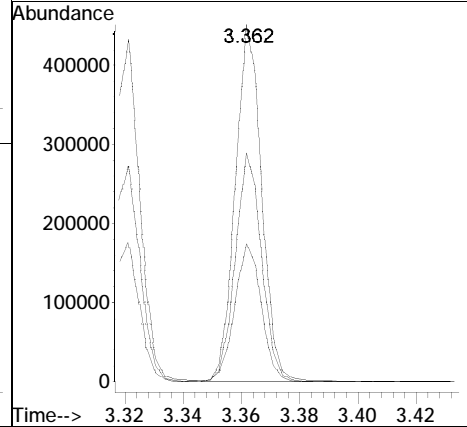
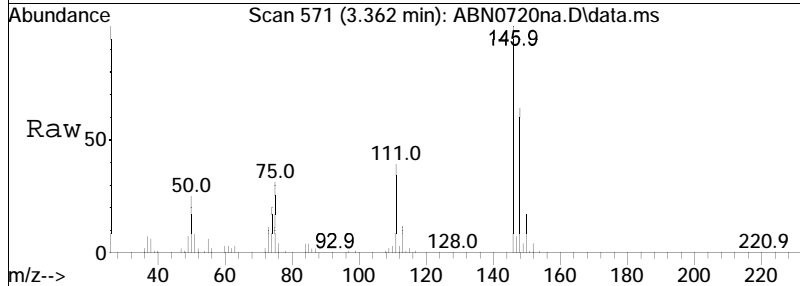
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.0	35.8	53.6
148	63.6	51.2	76.8

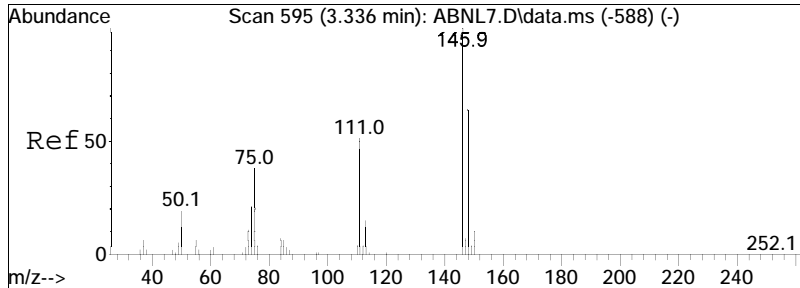




#11
 1,4-Dichlorobenzene
 Concen: 53.33 ug/ml
 RT: 3.362 min Scan# 571
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

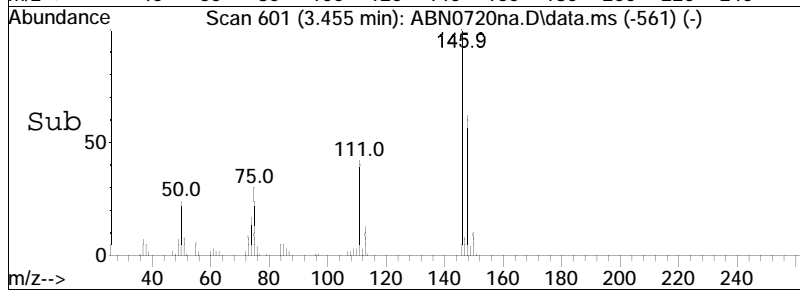
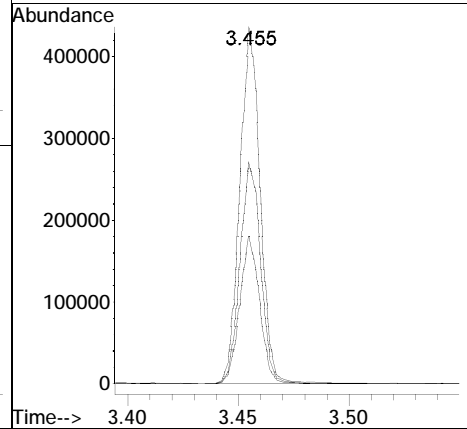
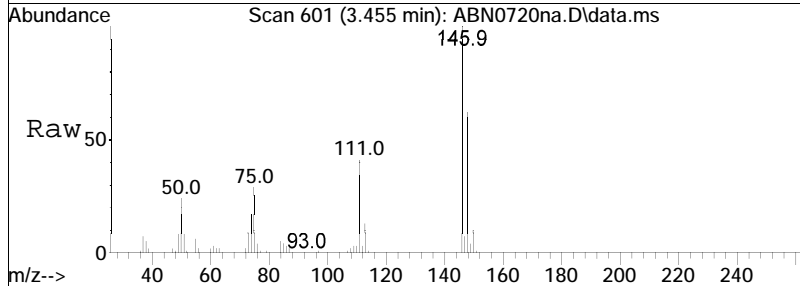
Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.6	77.4
111	39.8	35.3	52.9

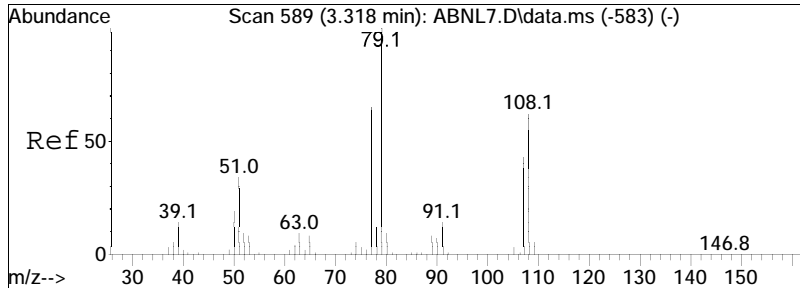




#12
 1,2-Dichlorobenzene
 Concen: 54.18 ug/ml
 RT: 3.455 min Scan# 601
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

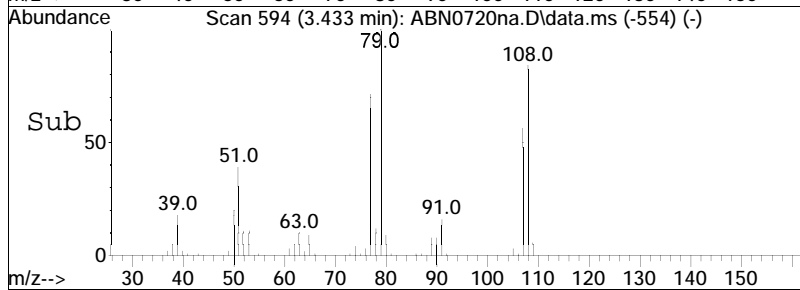
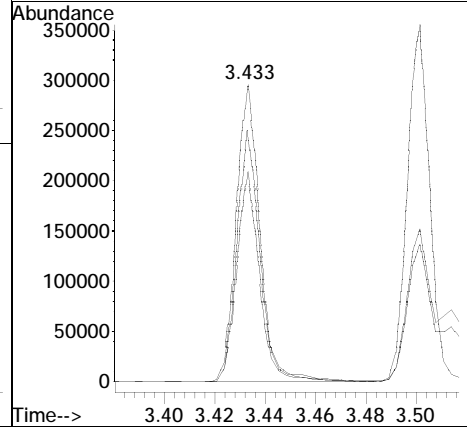
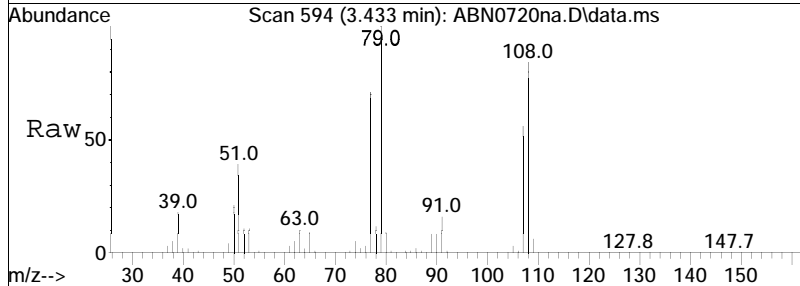
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.7	36.0	54.0
148	62.5	49.9	74.9

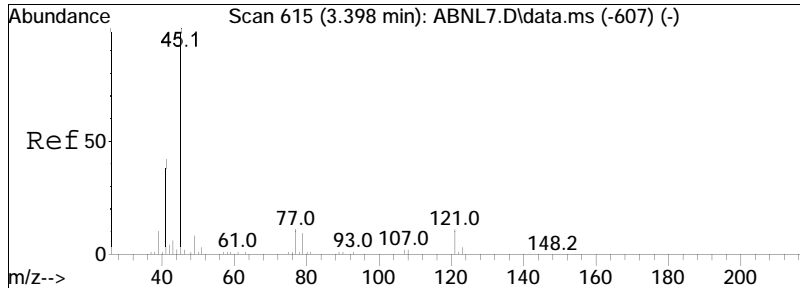




#13
 Benzyl alcohol
 Concen: 54.21 ug/ml
 RT: 3.433 min Scan# 594
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

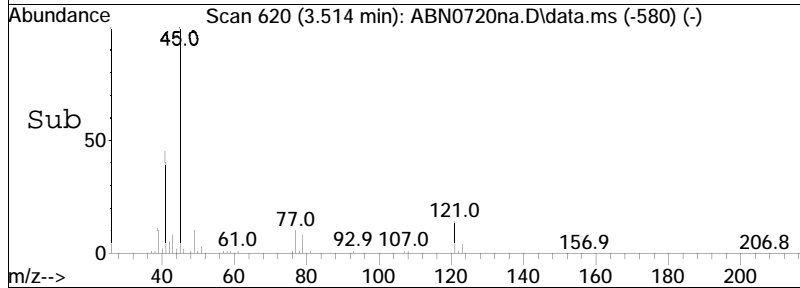
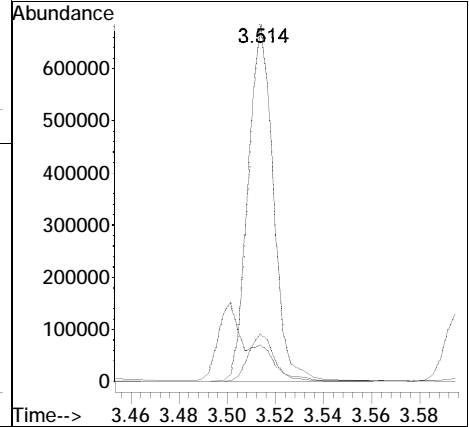
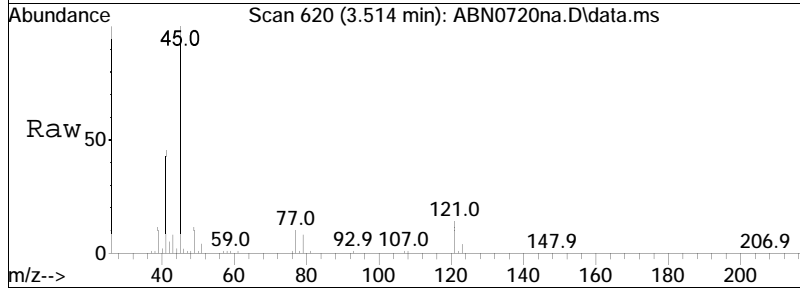
Tgt Ion:	79	Resp:	195162
Ion Ratio	Lower	Upper	
79	100		
77	68.3	52.3	78.5
108	83.2	60.2	90.4

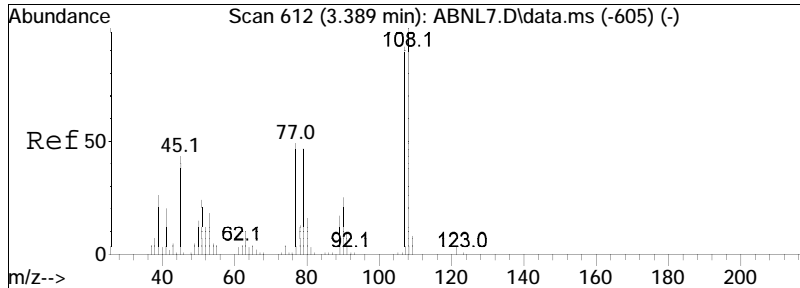




#14
 Bis(2-chloroisopropyl) ether
 Concen: 68.71 ug/ml
 RT: 3.514 min Scan# 620
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

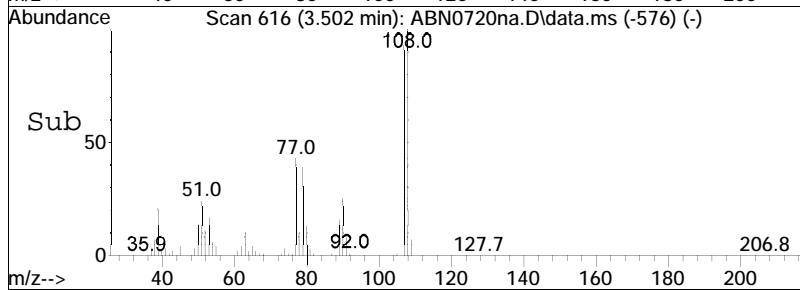
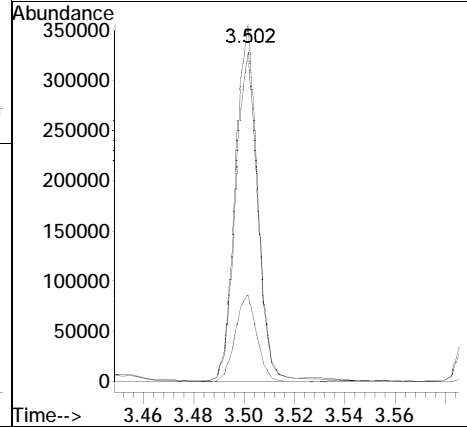
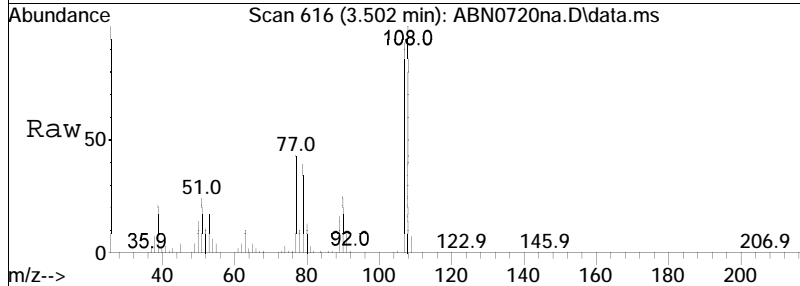
Tgt Ion	Resp	Lower	Upper
45	100		
121	13.8	12.6	19.0
77	29.4	26.4	39.6

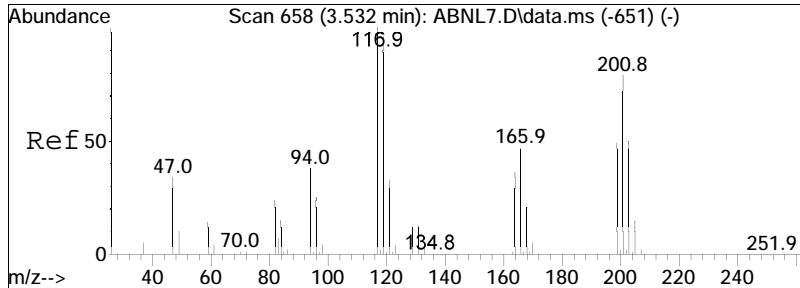




#15
 2-Methylphenol
 Concen: 53.35 ug/ml
 RT: 3.502 min Scan# 616
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

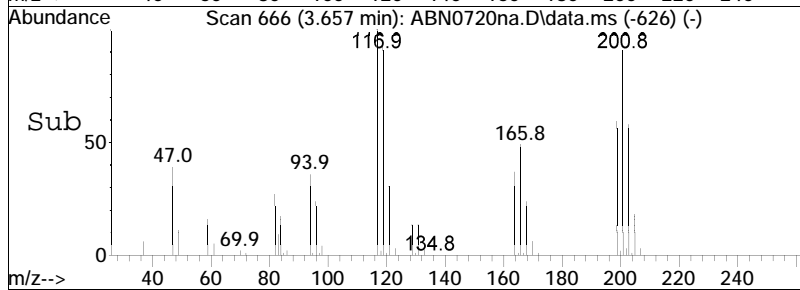
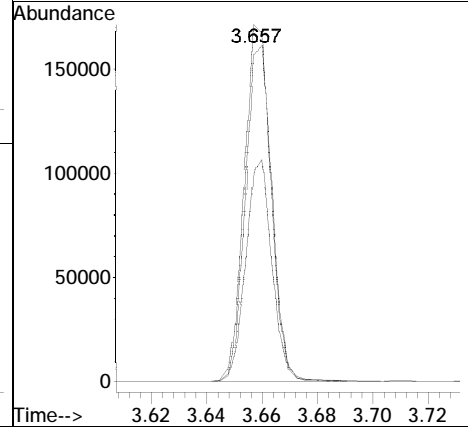
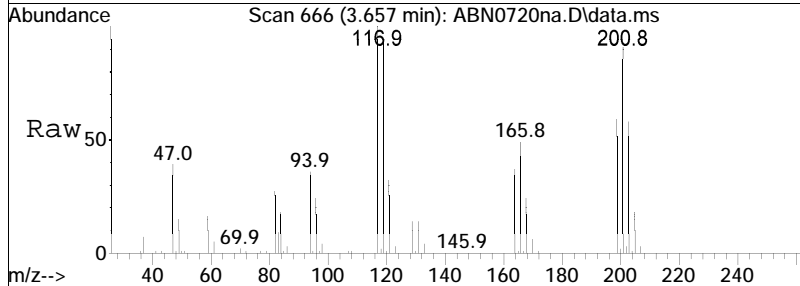
Tgt Ion	Ratio	Lower	Upper
108	100		
107	90.7	72.8	109.2
90	24.0	20.2	30.4

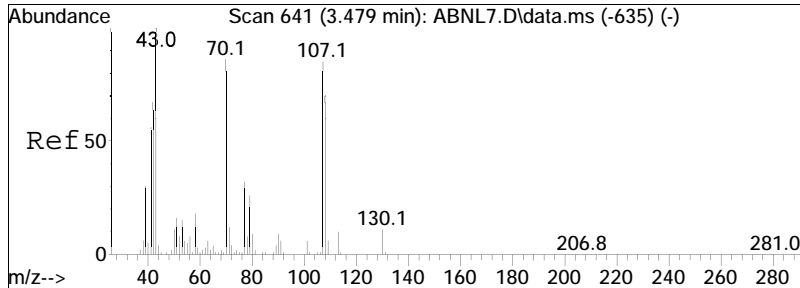




#16
 Hexachloroethane
 Concen: 55.37 ug/ml
 RT: 3.657 min Scan# 666
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

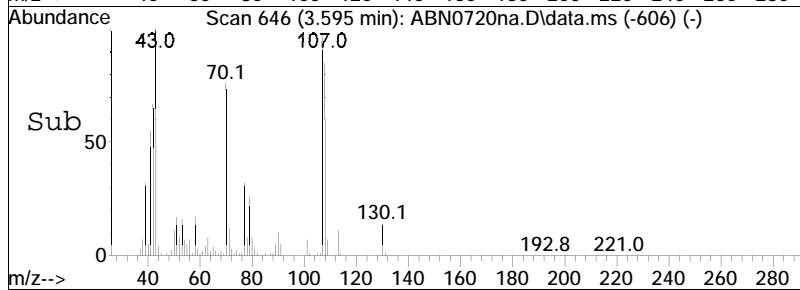
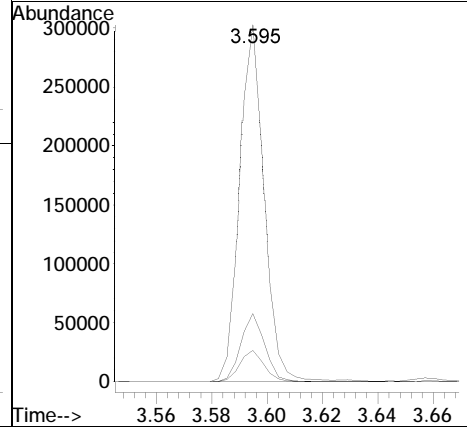
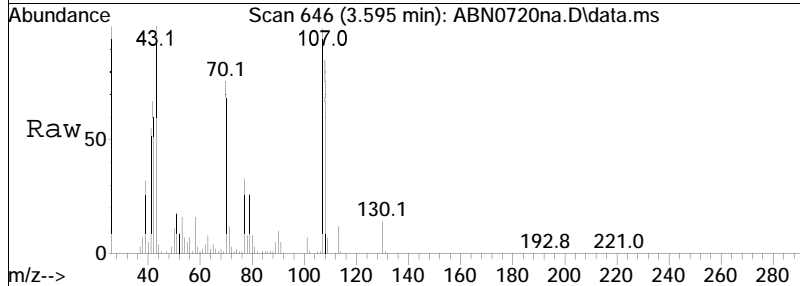
Tgt Ion	Resp	Lower	Upper
117	100		
201	93.5	64.5	96.7
199	61.0	40.3	60.5#

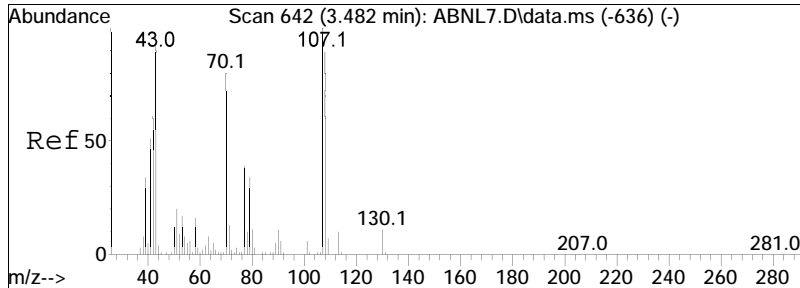




#17
 n-Nitrosodi-n-propylamine
 Concen: 57.29 ug/ml
 RT: 3.595 min Scan# 646
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

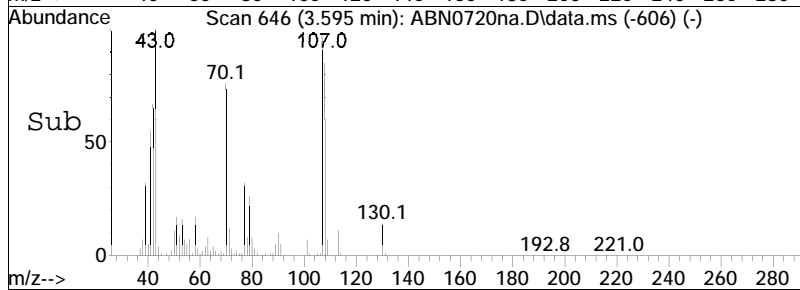
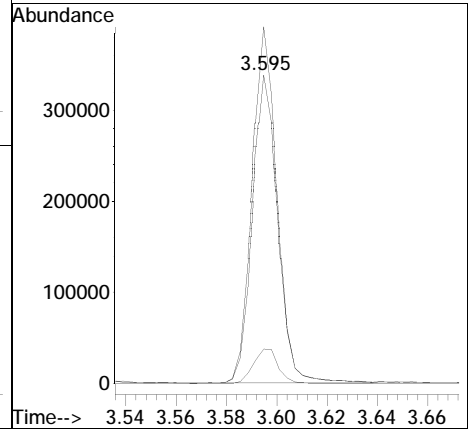
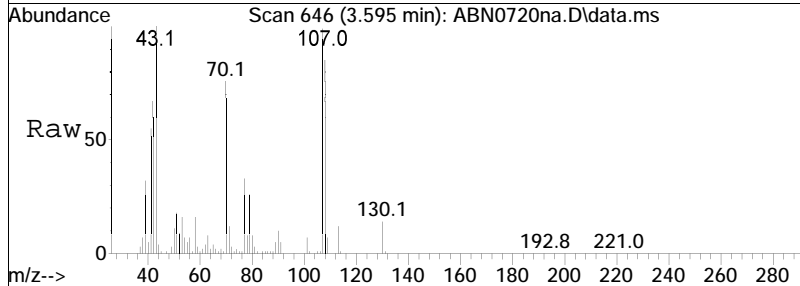
Tgt Ion	Resp	Lower	Upper
70	186933		
70	100		
130	18.5	15.0	22.4
101	8.7	7.4	11.0

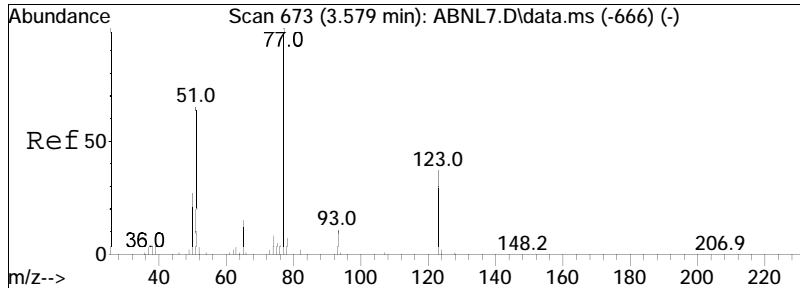




#18
 3-Methylphenol/4-Methylphenol
 Concen: 56.63 ug/ml
 RT: 3.595 min Scan# 646
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

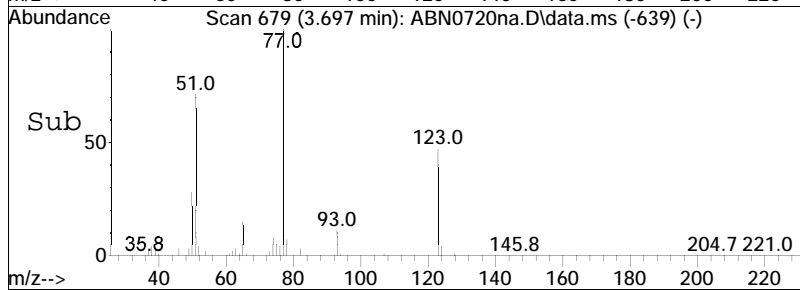
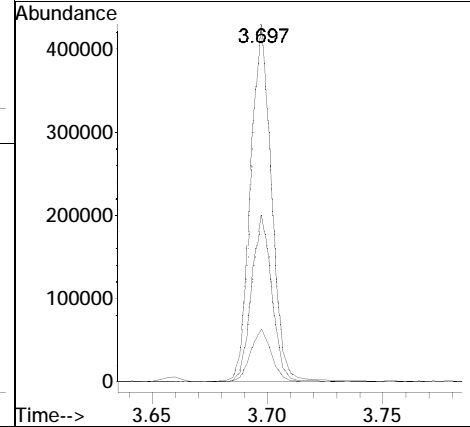
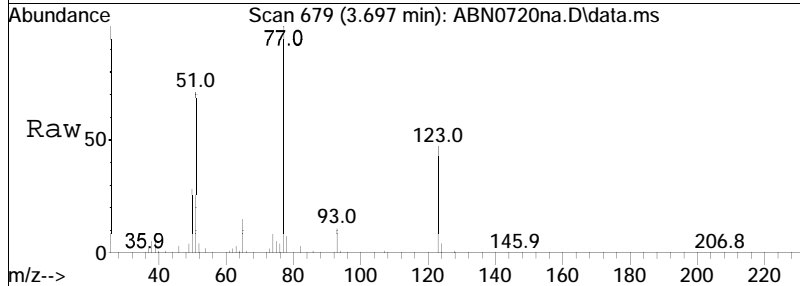
Tgt Ion	Ratio	Lower	Upper
108	100		
107	114.2	90.4	135.6
90	11.4	9.2	13.8

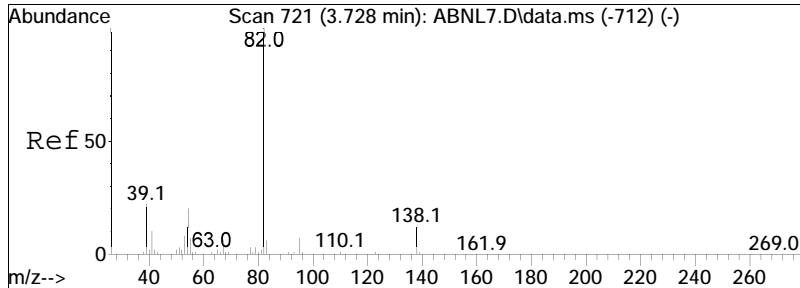




#20
 Nitrobenzene
 Concen: 55.52 ug/ml
 RT: 3.697 min Scan# 679
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

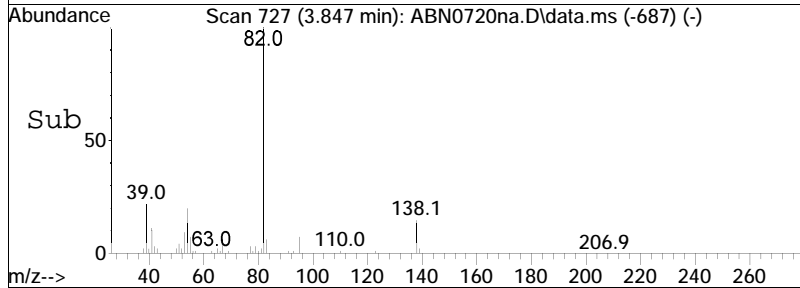
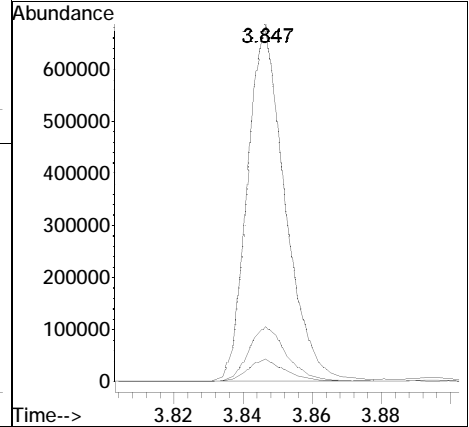
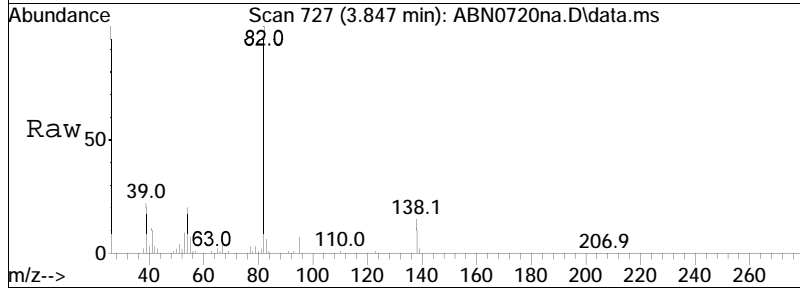
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
77	100		
123	46.3	35.0	52.4
65	15.1	11.5	17.3

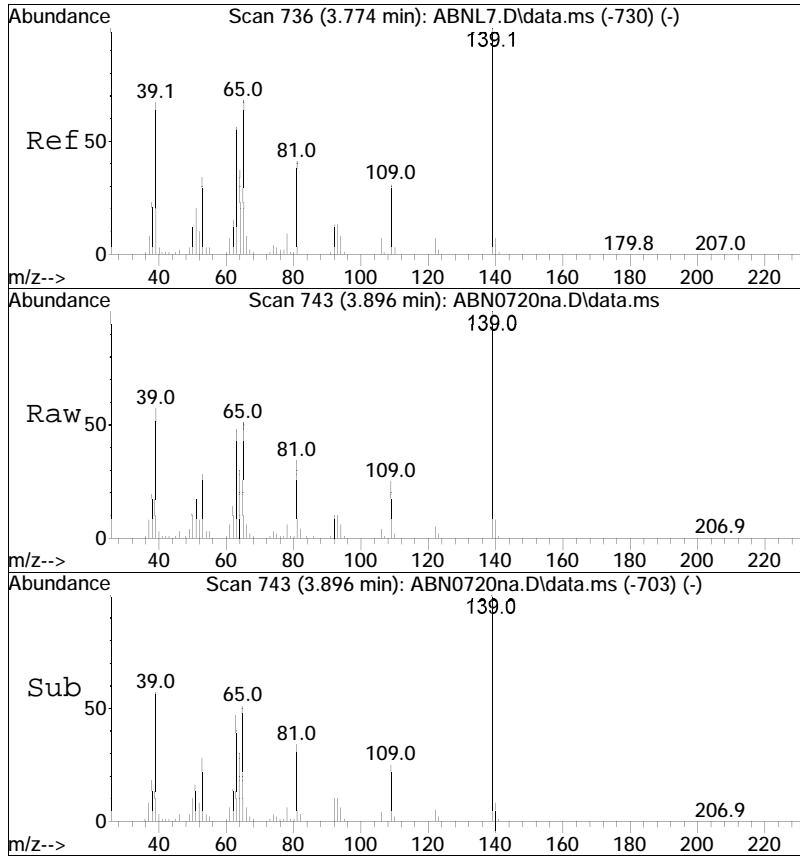




#21
 Isophorone
 Concen: 60.27 ug/ml
 RT: 3.847 min Scan# 727
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

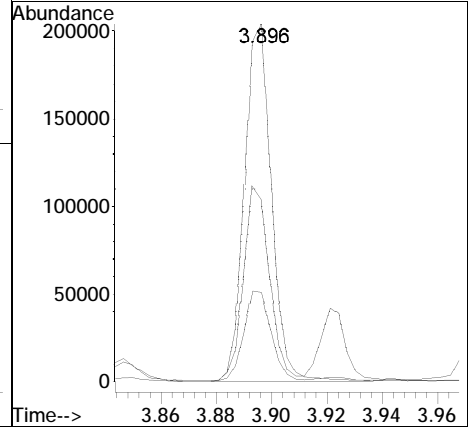
Tgt Ion:	82	Resp:	513851
Ion Ratio	100	Lower	Upper
138	15.7	12.8	19.2
95	6.3	5.5	8.3

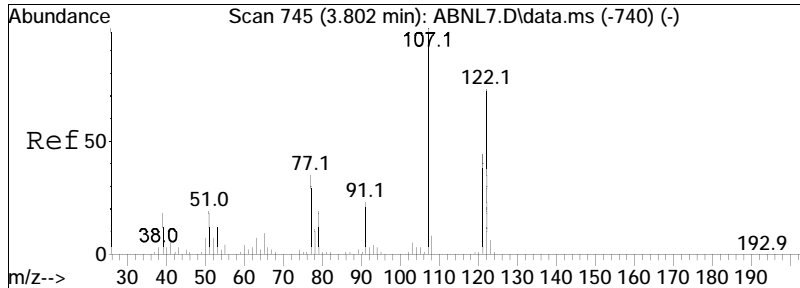




#22
 2-Nitrophenol
 Concen: 64.38 ug/ml
 RT: 3.896 min Scan# 743
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

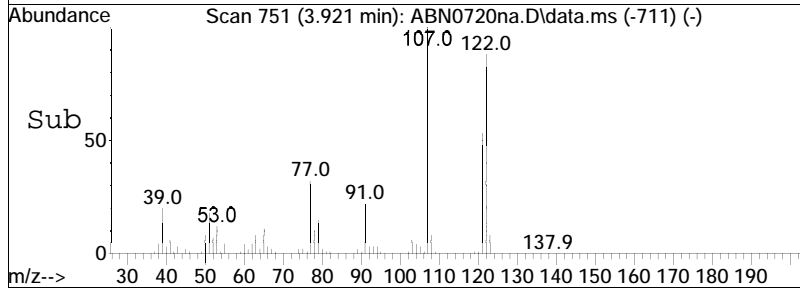
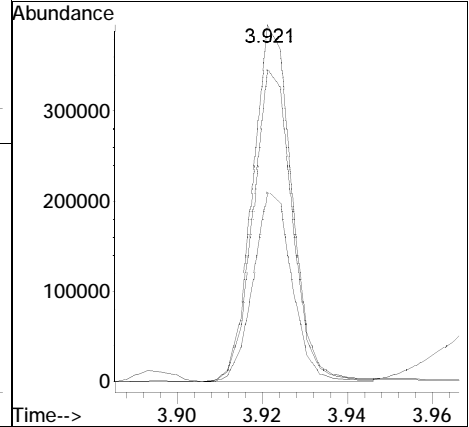
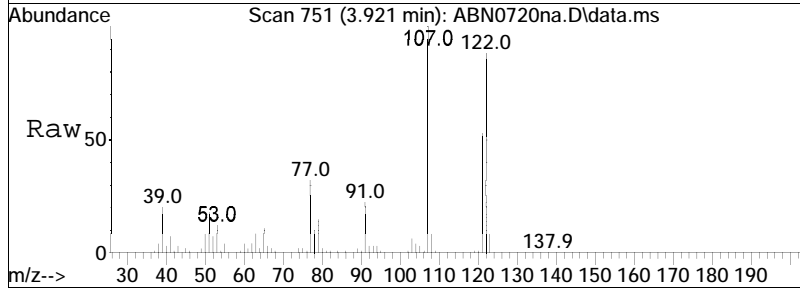
Tgt Ion	Ratio	Lower	Upper
139	100		
109	26.0	24.8	37.2
65	52.8	45.5	68.3

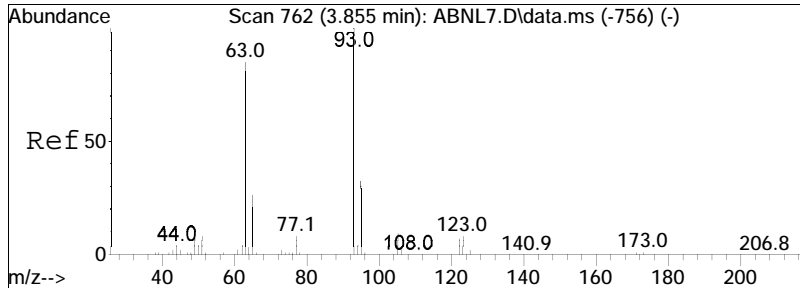




#23
 2,4-Dimethylphenol
 Concen: 55.64 ug/ml
 RT: 3.921 min Scan# 751
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

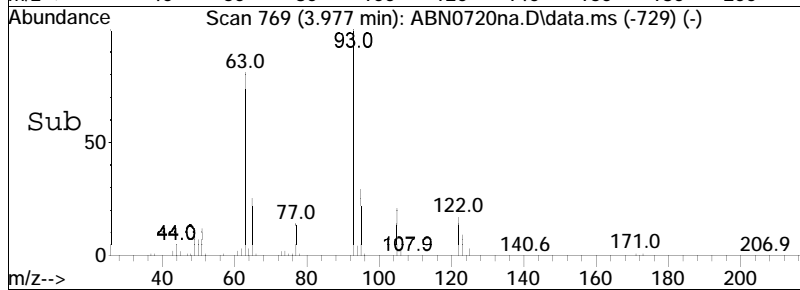
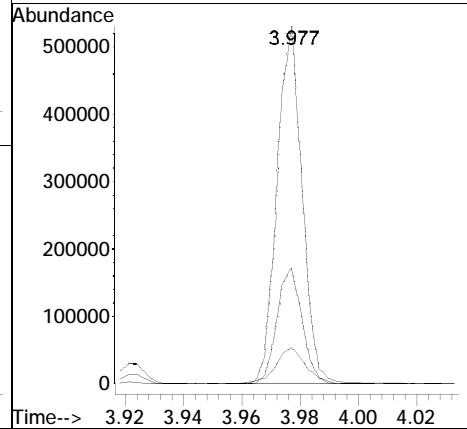
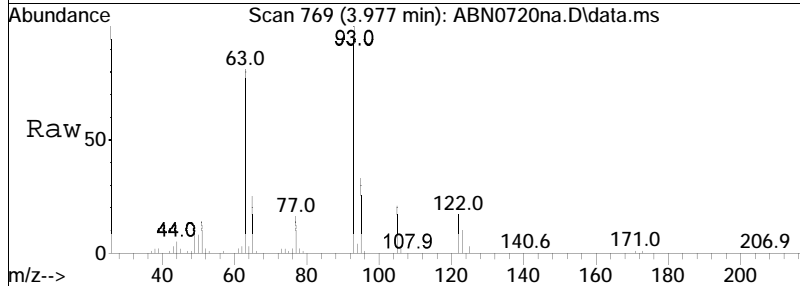
Tgt Ion	Resp	Lower	Upper
107	100		
121	53.1	39.7	59.5
122	86.6	66.8	100.2

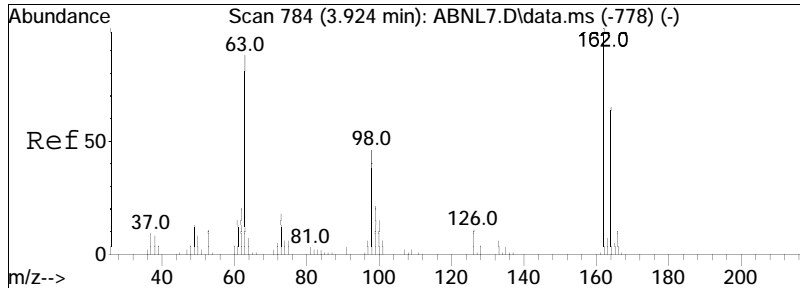




#24
 Bis(2-chloroethoxy)methane
 Concen: 57.63 ug/ml
 RT: 3.977 min Scan# 769
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

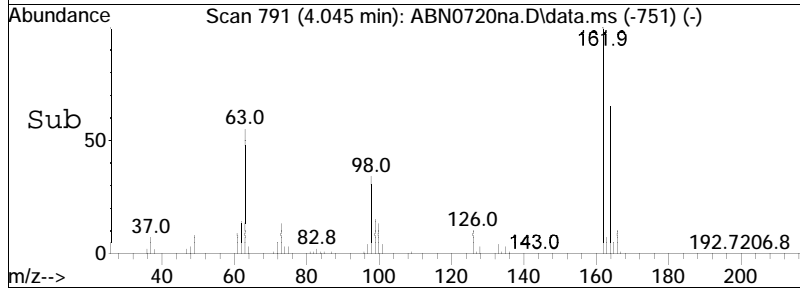
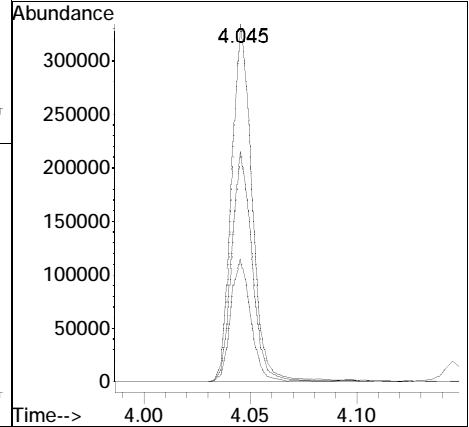
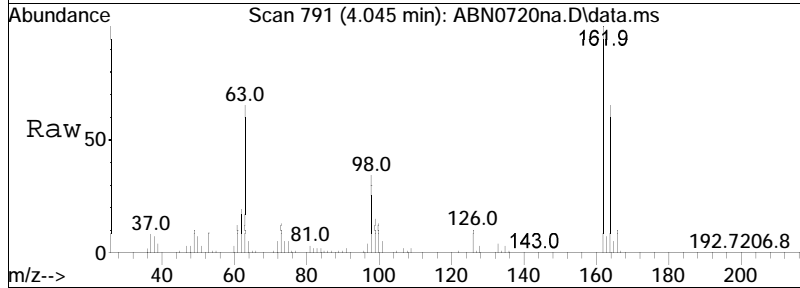
Tgt Ion:	93	Resp:	313848
Ion Ratio	Lower	Upper	
93	100		
95	32.8	26.1	39.1
123	12.4	9.8	14.8

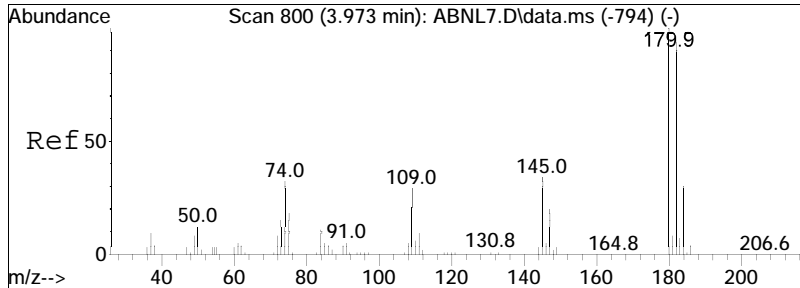




#25
 2,4-Dichlorophenol
 Concen: 57.73 ug/ml
 RT: 4.045 min Scan# 791
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

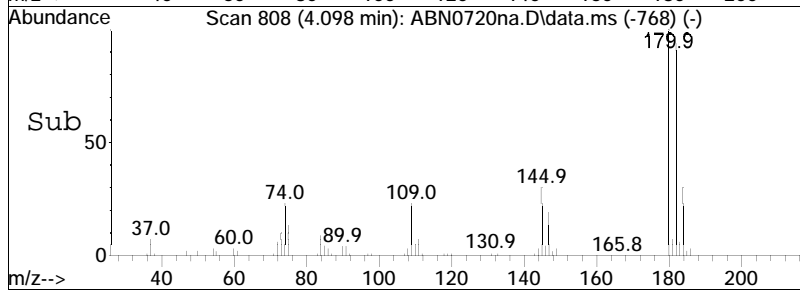
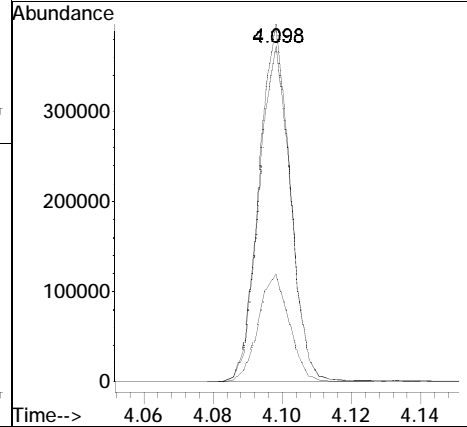
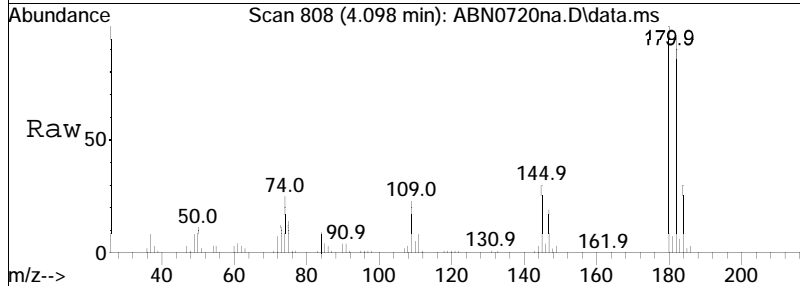
Tgt Ion	Ratio	Lower	Upper
162	100		
164	63.6	50.4	75.6
98	33.7	31.6	47.4

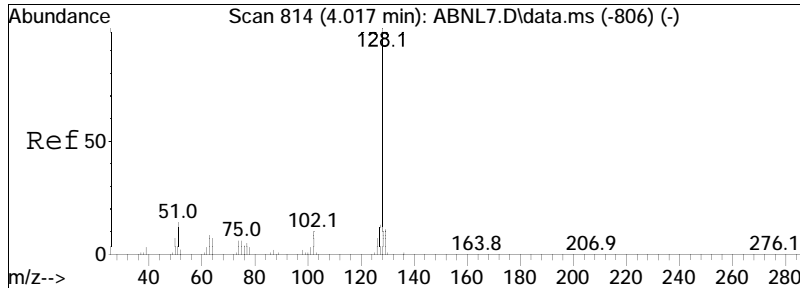




#26
 1,2,4-Trichlorobenzene
 Concen: 54.24 ug/ml
 RT: 4.098 min Scan# 808
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

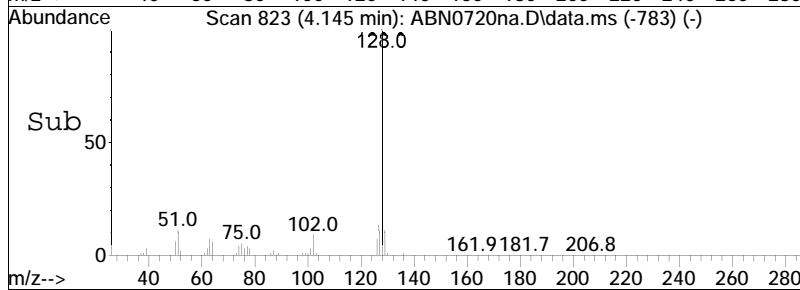
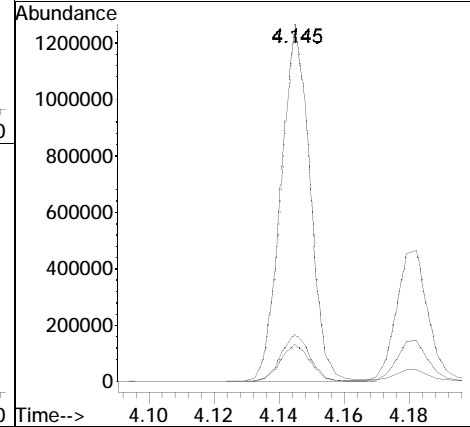
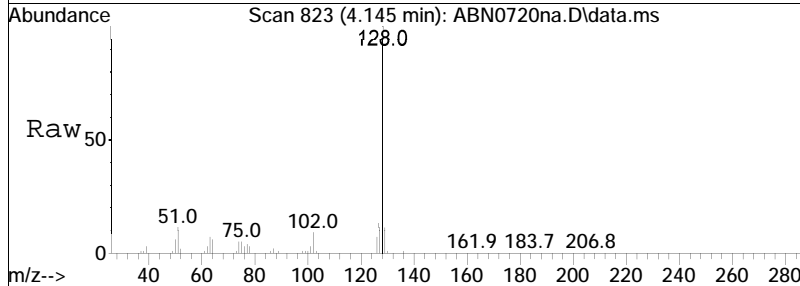
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	74.7	112.1
145	30.3	26.6	39.8

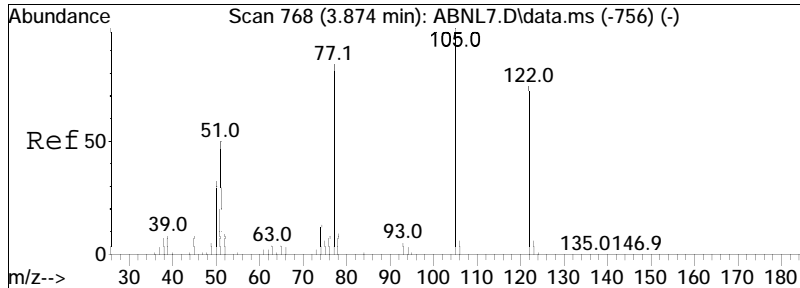




#36
 Naphthalene
 Concen: 53.19 ug/ml
 RT: 4.145 min Scan# 823
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

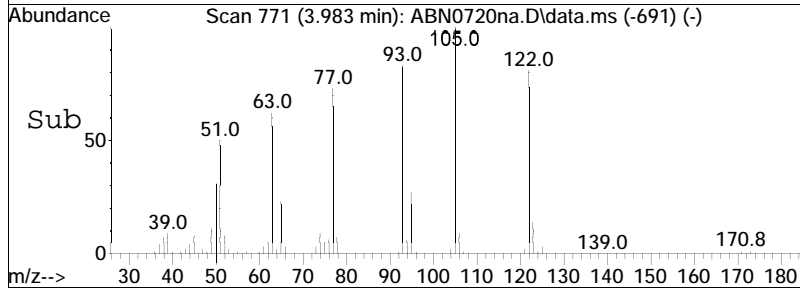
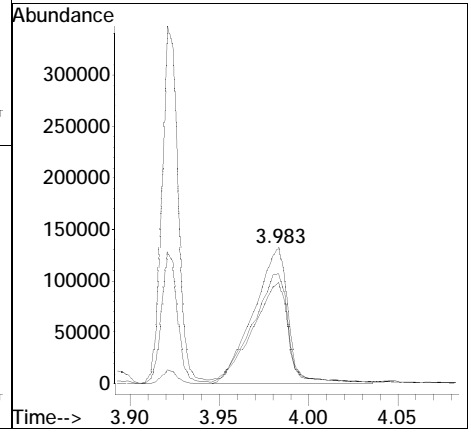
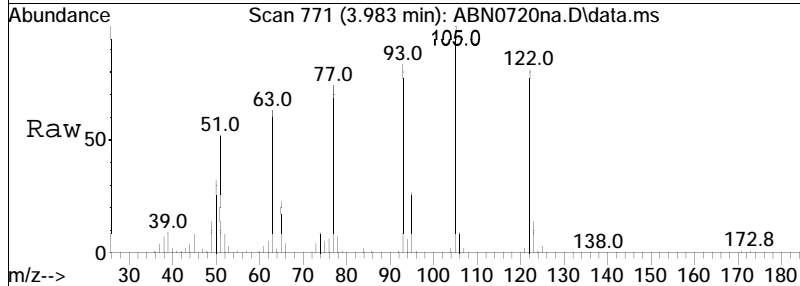
Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.7	13.1
127	13.3	10.7	16.1

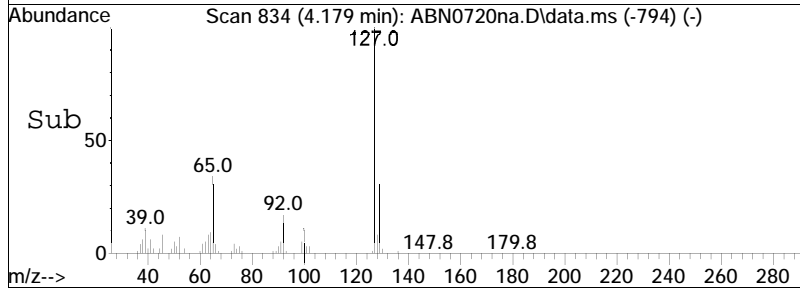
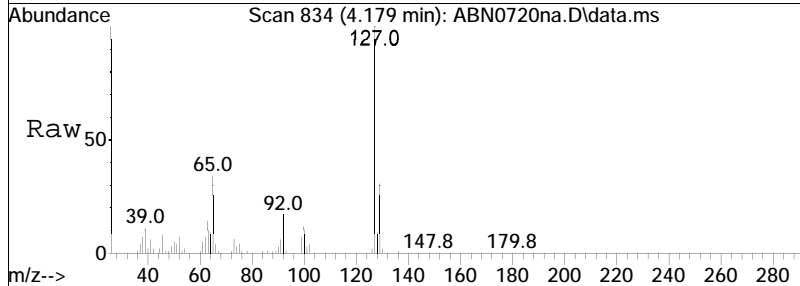
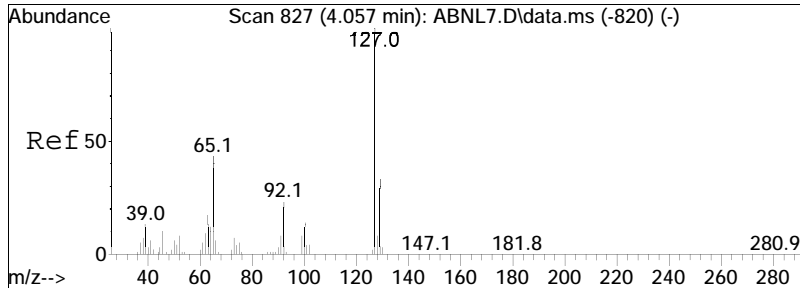




#37
 Benzoic Acid
 Concen: 50.62 ug/ml
 RT: 3.983 min Scan# 771
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

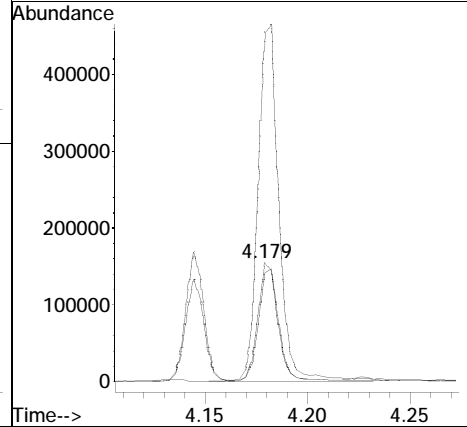
Tgt Ion	Ratio	Lower	Upper
105	100		
122	83.5	61.8	92.6
77	76.2	62.2	93.4

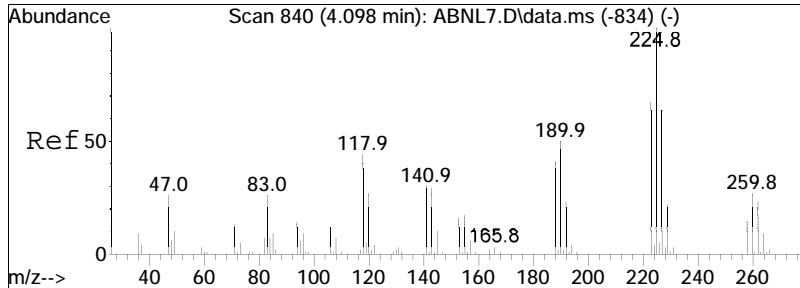




#38
 4-Chloroaniline
 Concen: 58.72 ug/ml
 RT: 4.179 min Scan# 834
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

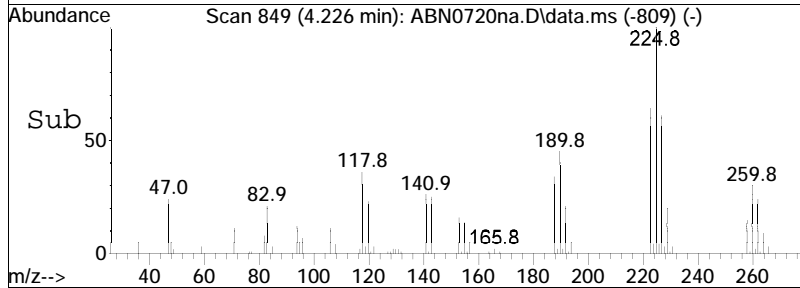
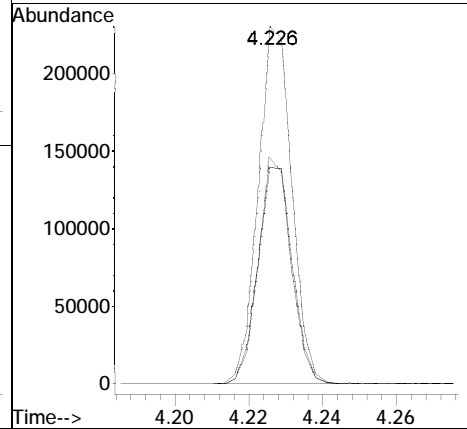
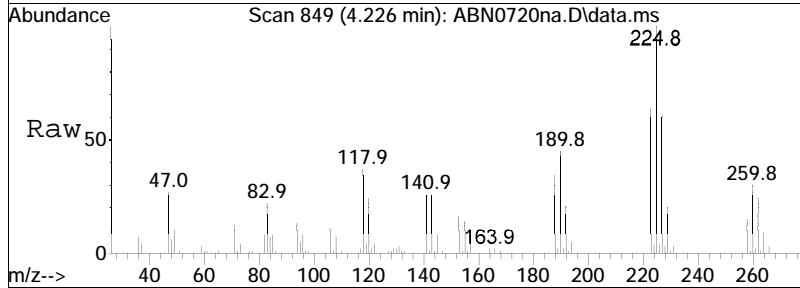
Tgt Ion:	Resp:	Lower	Upper
65	106262		
127	301.3	233.2	349.8
129	95.4	74.6	111.8

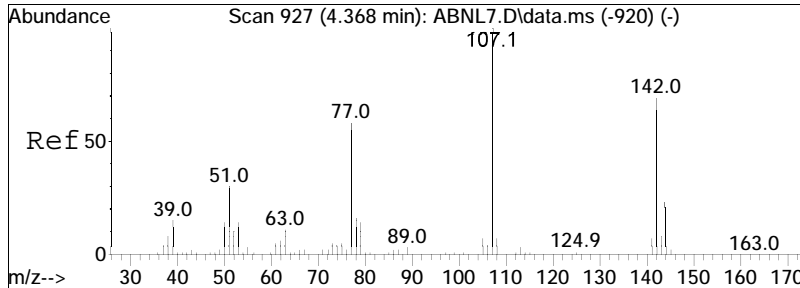




#39
 Hexachlorobutadiene
 Concen: 49.78 ug/ml
 RT: 4.226 min Scan# 849
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

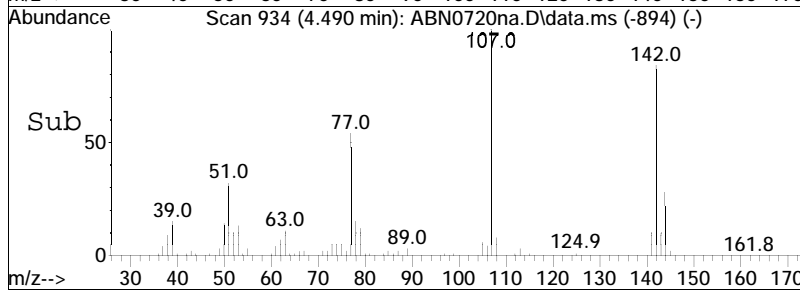
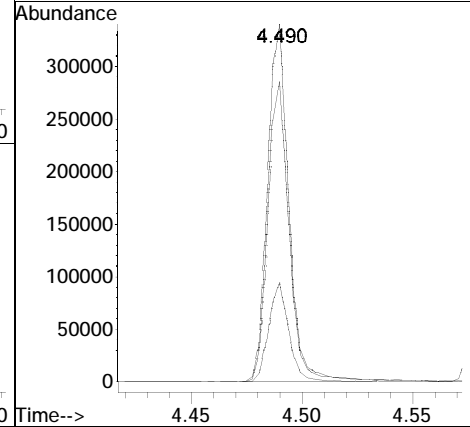
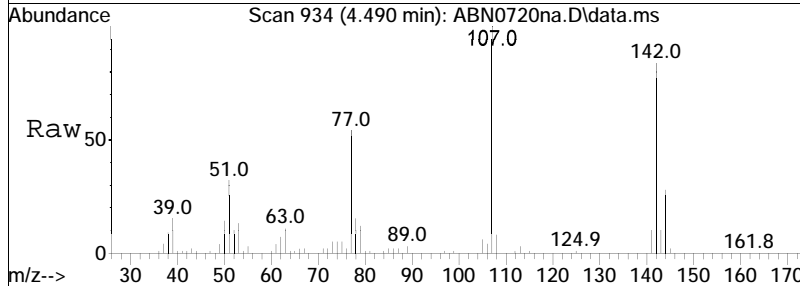
Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.2	49.4	74.0
227	62.5	50.8	76.2

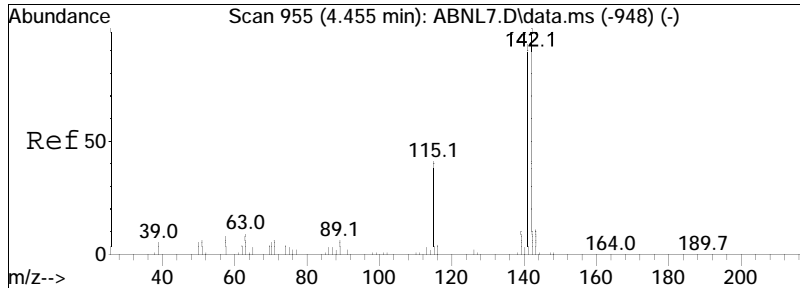




#40
 p-Chloro-m-cresol
 Concen: 56.75 ug/ml
 RT: 4.490 min Scan# 934
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

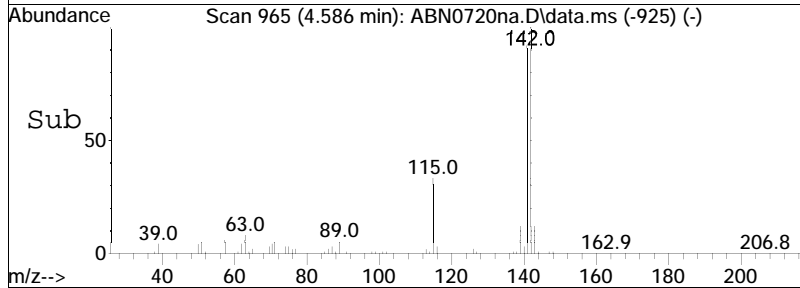
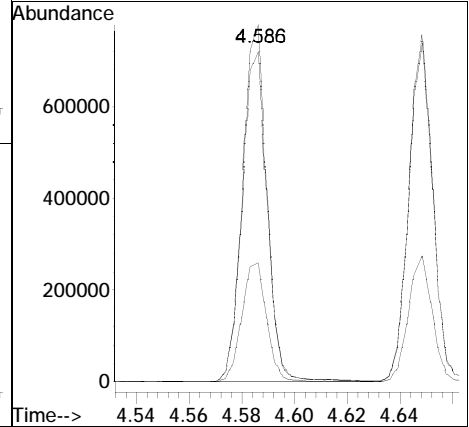
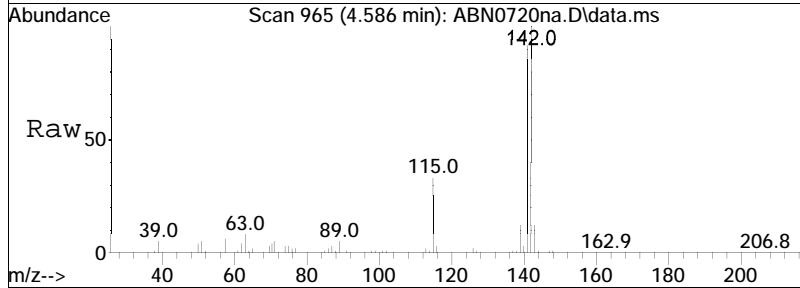
Tgt Ion	Resp	Lower	Upper
107	100		
144	26.6	19.6	29.4
142	84.4	62.2	93.4

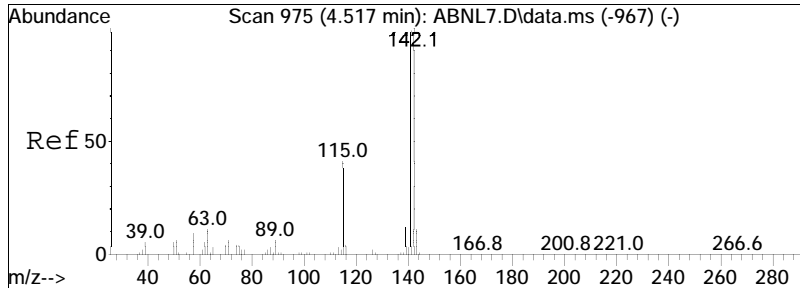




#41
 2-Methylnaphthalene
 Concen: 53.27 ug/ml
 RT: 4.586 min Scan# 965
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

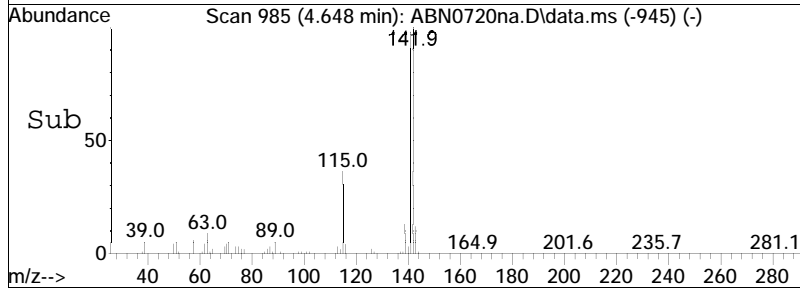
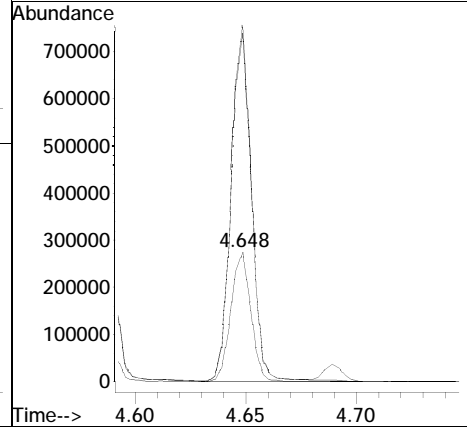
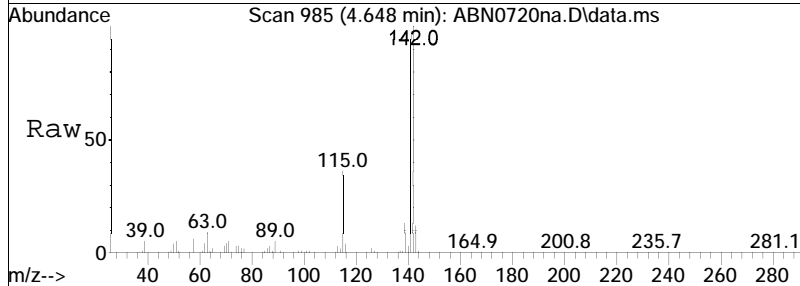
Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.4	71.8	107.8
115	33.9	29.1	43.7

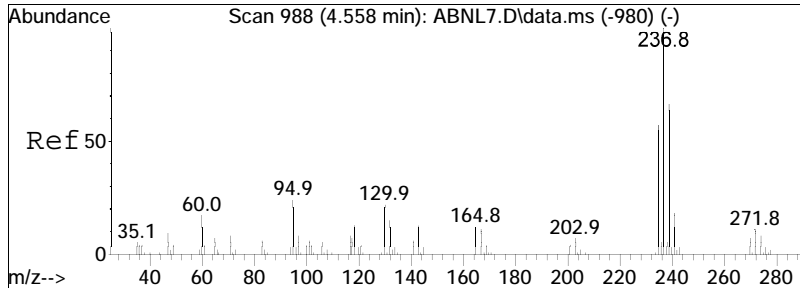




#42
 1-Methylnaphthalene
 Concen: 51.05 ug/ml
 RT: 4.648 min Scan# 985
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

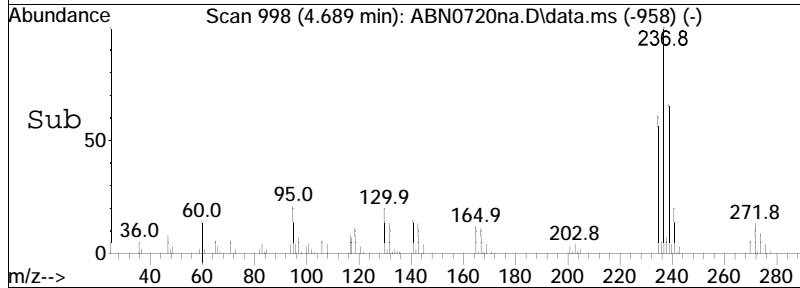
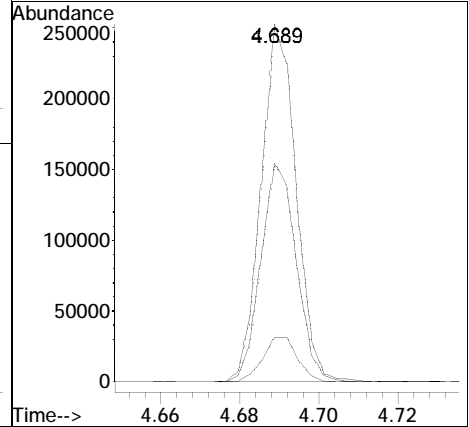
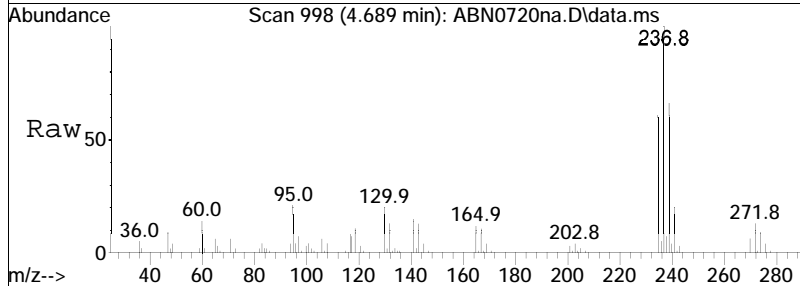
Tgt Ion	Resp	Lower	Upper
115	100		
141	269.0	196.6	294.8
142	275.9	209.2	313.8

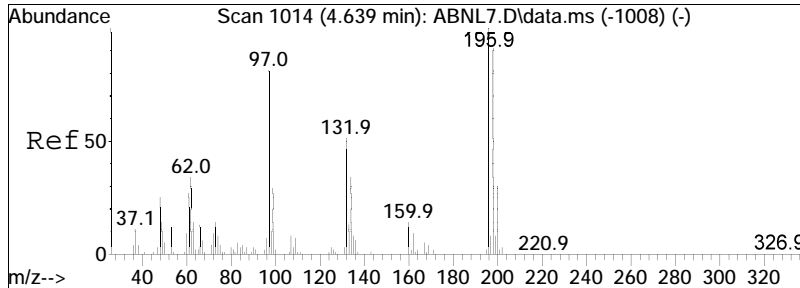




#43
 Hexachlorocyclopentadiene
 Concen: 40.94 ug/ml
 RT: 4.689 min Scan# 998
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

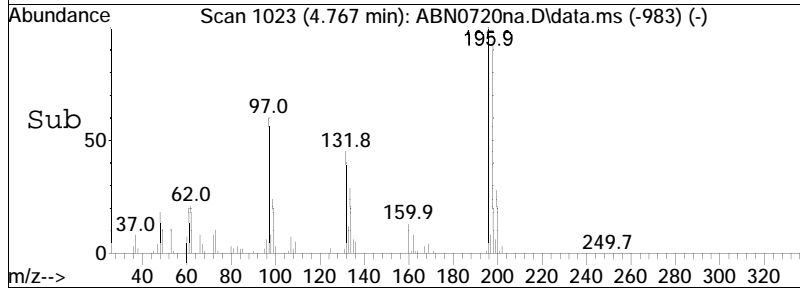
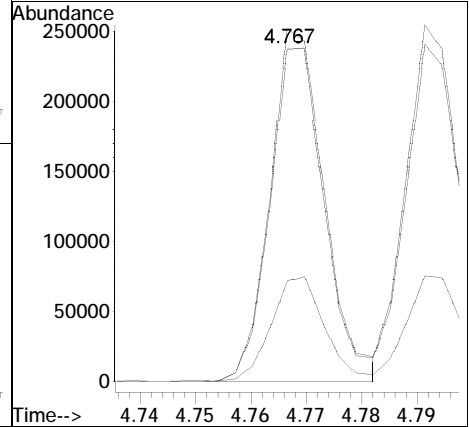
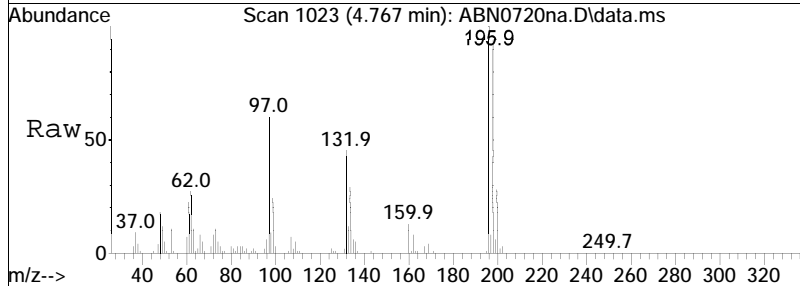
Tgt Ion	Ratio	Lower	Upper
237	100		
235	62.3	47.8	71.6
272	12.7	10.4	15.6

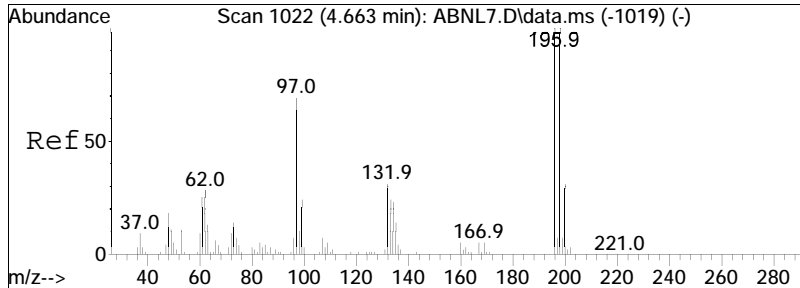




#44
 2,4,6-Trichlorophenol
 Concen: 58.01 ug/ml
 RT: 4.767 min Scan# 1023
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

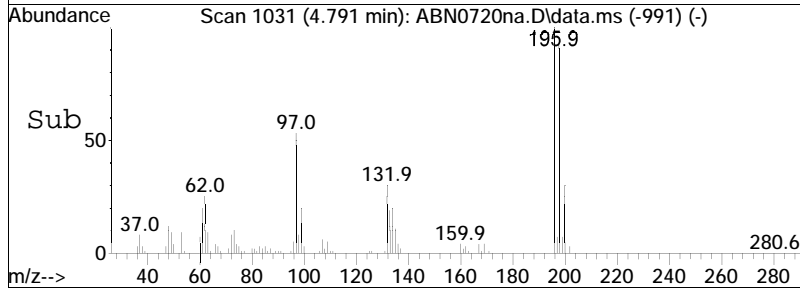
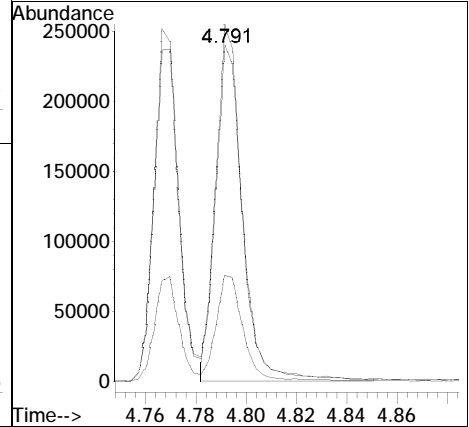
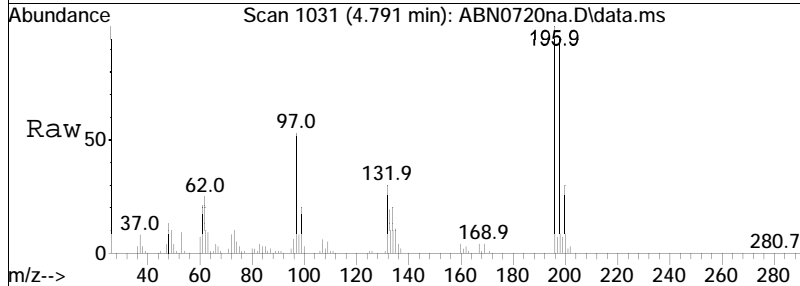
Tgt Ion	Resp	Lower	Upper
196	170769		
196	100		
198	95.2	81.5	122.3
200	29.6	26.2	39.2

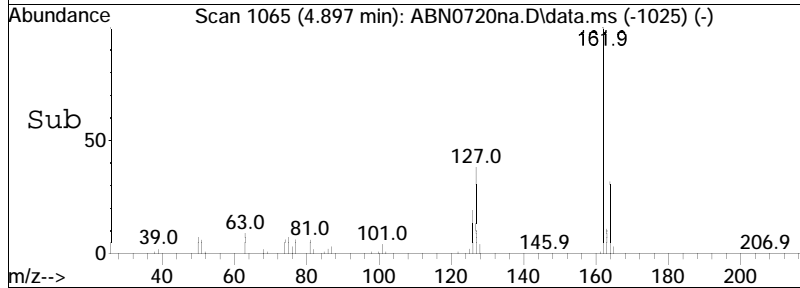
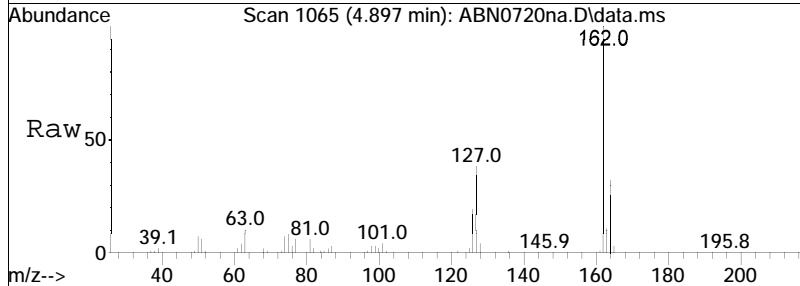
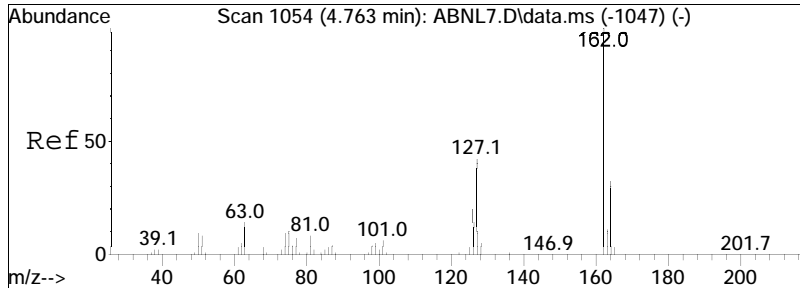




#45
 2,4,5-Trichlorophenol
 Concen: 57.62 ug/ml
 RT: 4.791 min Scan# 1031
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

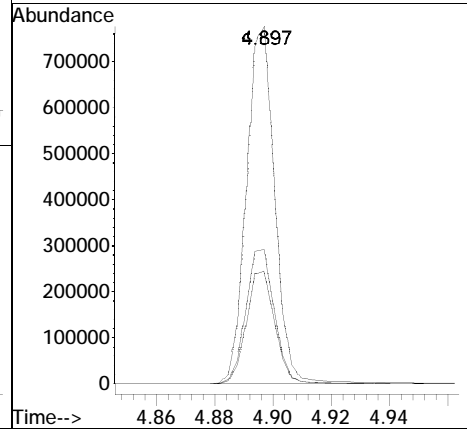
Tgt Ion	Resp	Lower	Upper
196	100		
200	29.9	25.5	38.3
198	94.7	79.2	118.8

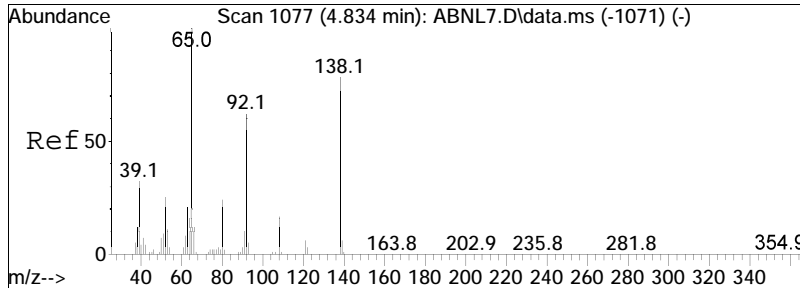




#47
 2-Chloronaphthalene
 Concen: 54.37 ug/ml
 RT: 4.897 min Scan# 1065
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

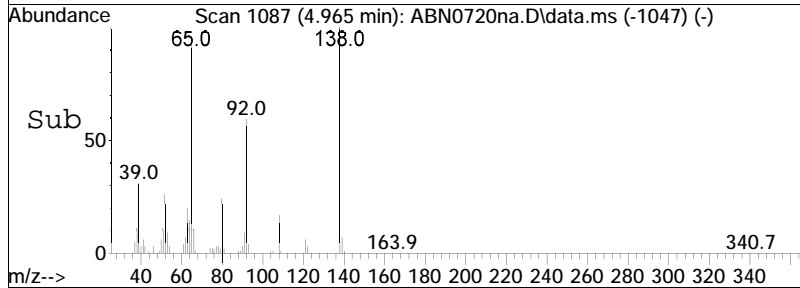
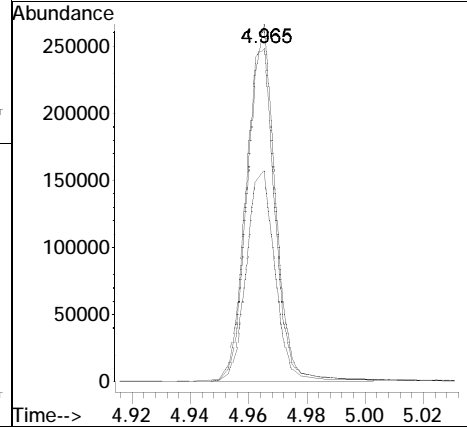
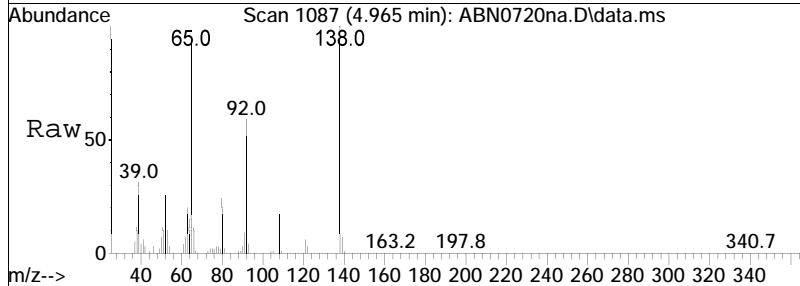
Tgt Ion	Ratio	Lower	Upper
162	100		
127	38.7	33.6	50.4
164	32.2	25.8	38.8

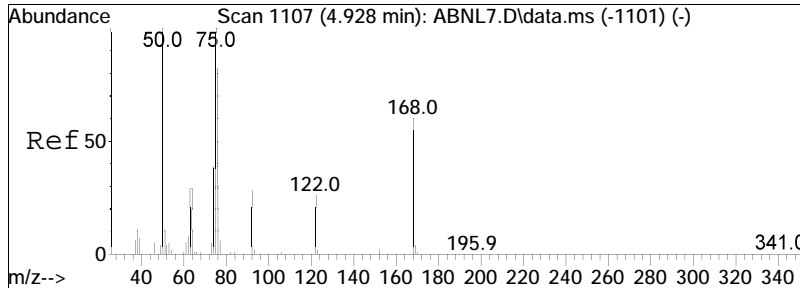




#48
 2-Nitroaniline
 Concen: 63.14 ug/ml
 RT: 4.965 min Scan# 1087
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

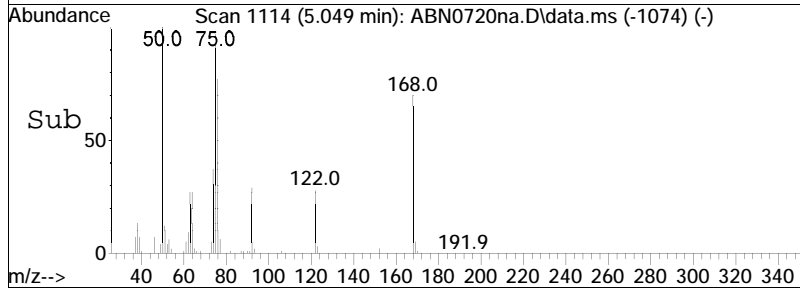
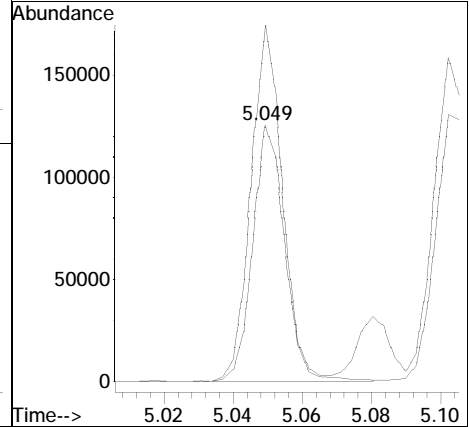
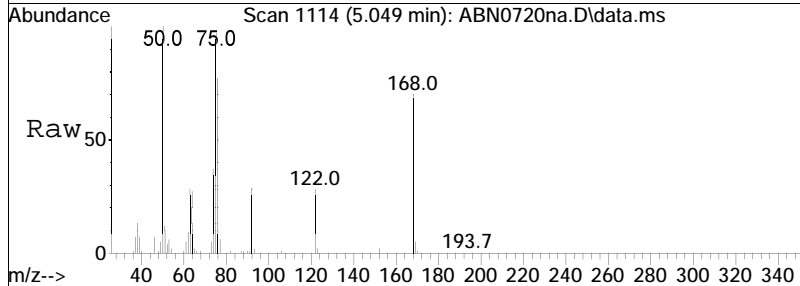
Tgt Ion	Ratio	Lower	Upper
138	100		
92	61.3	54.2	81.2
65	99.3	82.8	124.2

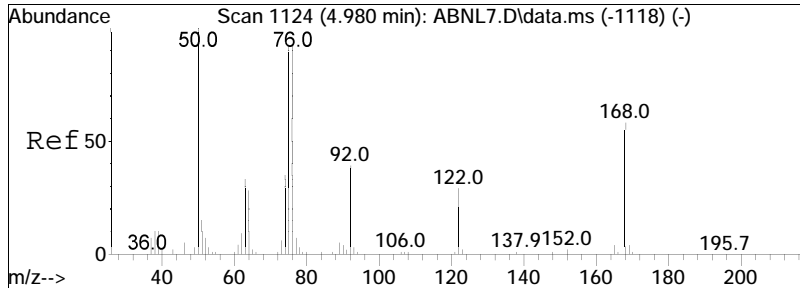




#49
 1,4-Dinitrobenzene
 Concen: 62.38 ug/ml
 RT: 5.049 min Scan# 1114
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

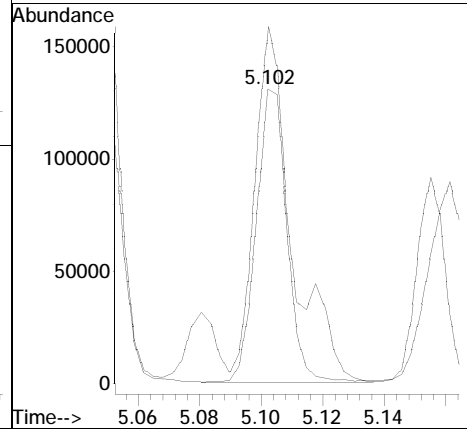
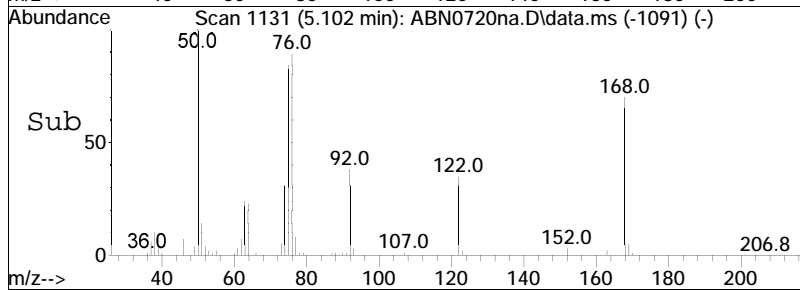
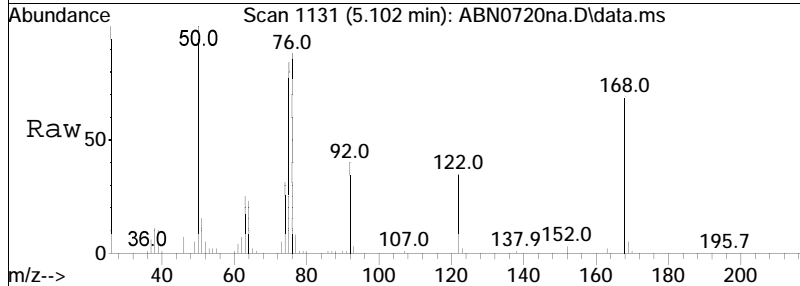
Tgt Ion	Resp	Lower	Upper
168	100		
75	137.1	120.1	180.1

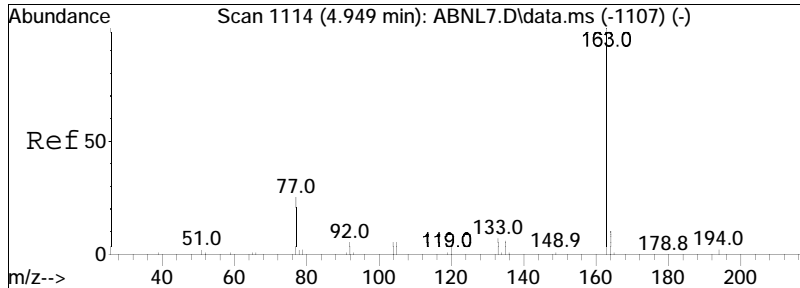




#50
 1,3-Dinitrobenzene
 Concen: 60.80 ug/ml
 RT: 5.102 min Scan# 1131
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

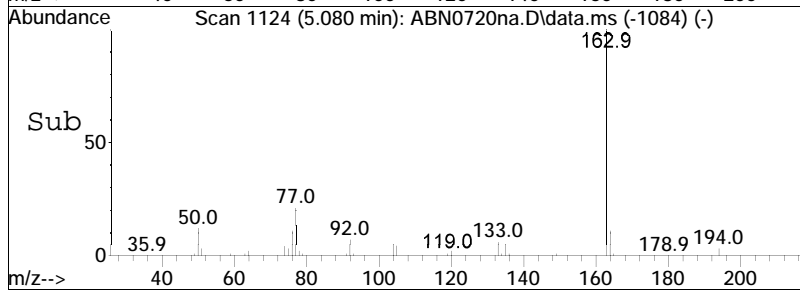
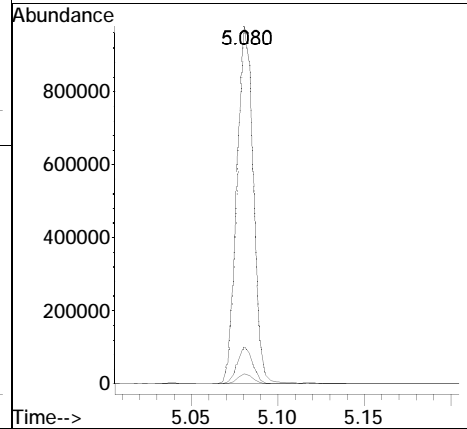
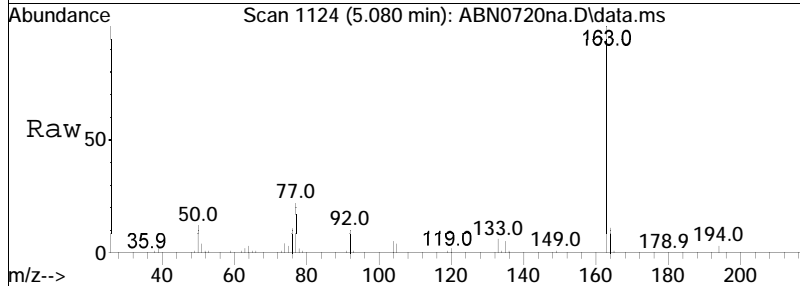
Tgt Ion: 168 Resp: 91254
 Ion Ratio Lower Upper
 168 100
 75 146.5 123.2 184.8

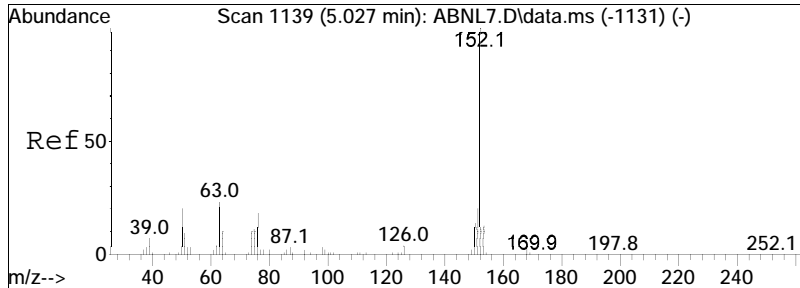




#51
 Dimethyl phthalate
 Concen: 57.31 ug/ml
 RT: 5.080 min Scan# 1124
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

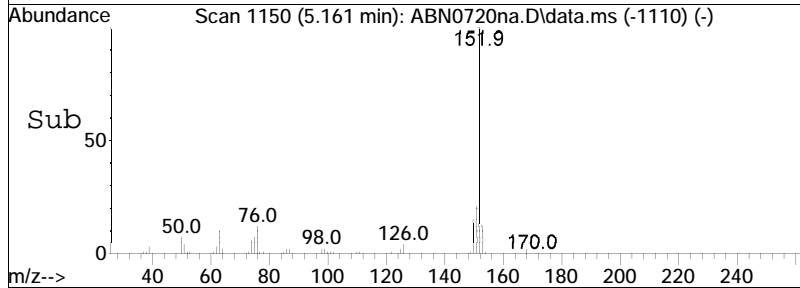
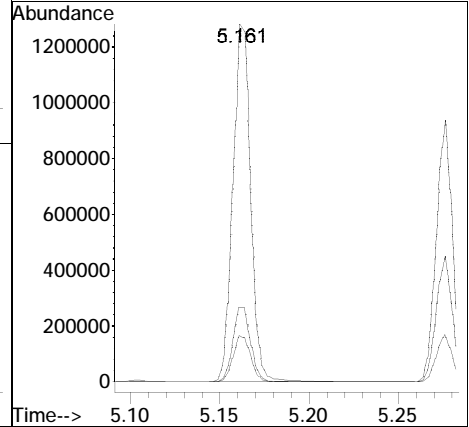
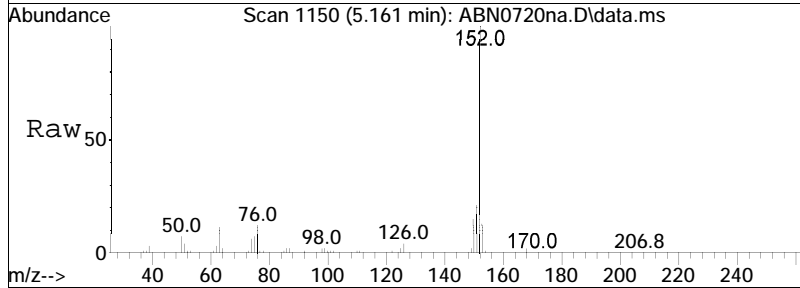
Tgt Ion	Ratio	Lower	Upper
163	100		
194	2.7	2.6	4.0
164	10.0	8.2	12.4

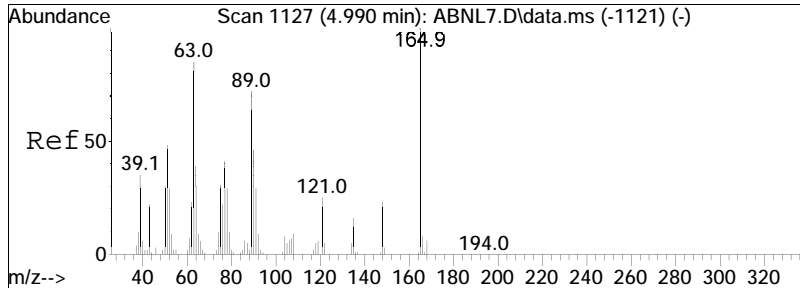




#52
 Acenaphthylene
 Concen: 59.39 ug/ml
 RT: 5.161 min Scan# 1150
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

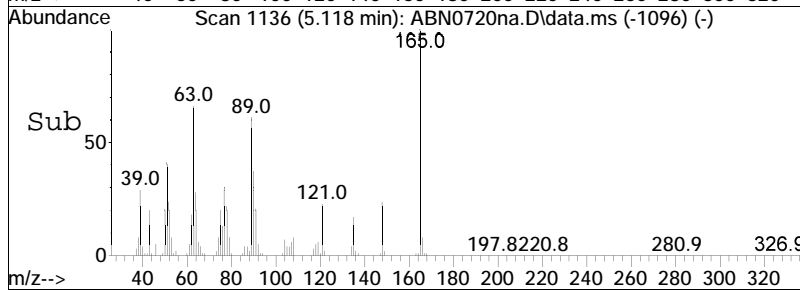
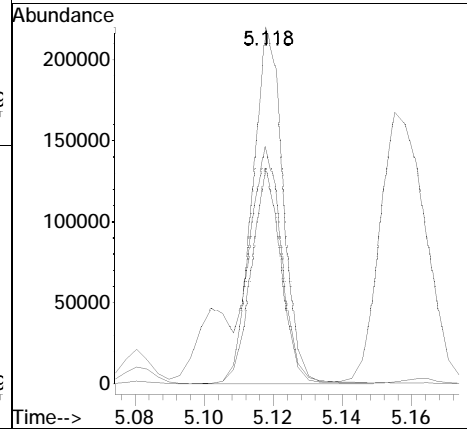
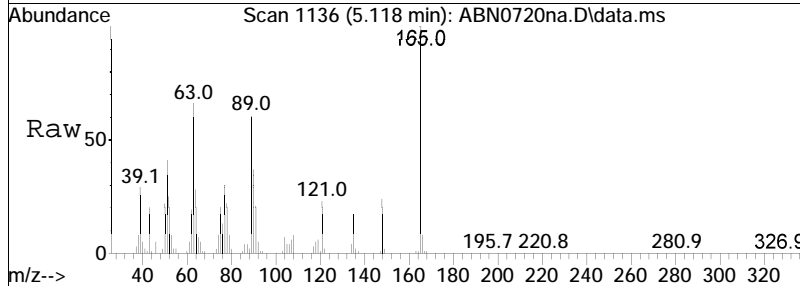
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.4	24.6
153	12.9	11.0	16.6

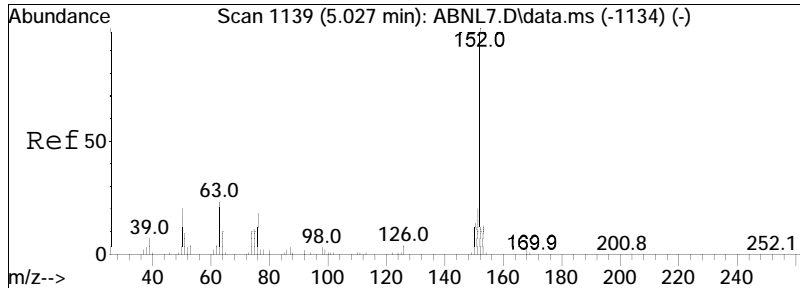




#53
 2,6-Dinitrotoluene
 Concen: 61.20 ug/ml
 RT: 5.118 min Scan# 1136
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

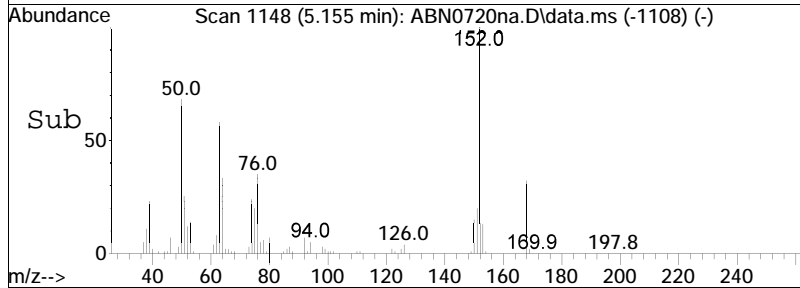
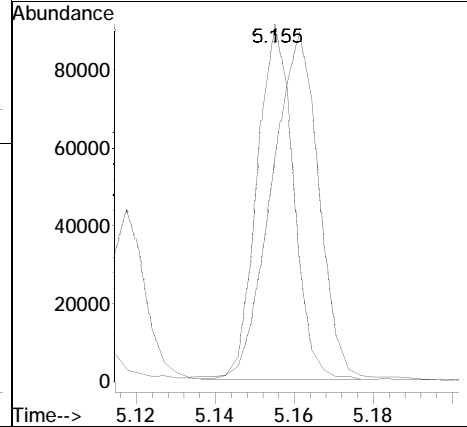
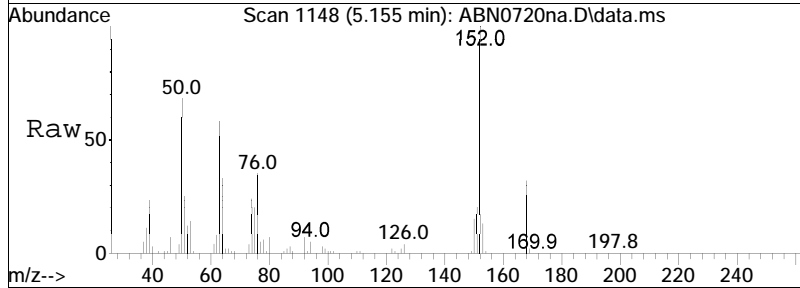
Tgt Ion	Ratio	Lower	Upper
165	100		
89	58.4	50.4	75.6
63	67.3	56.9	85.3

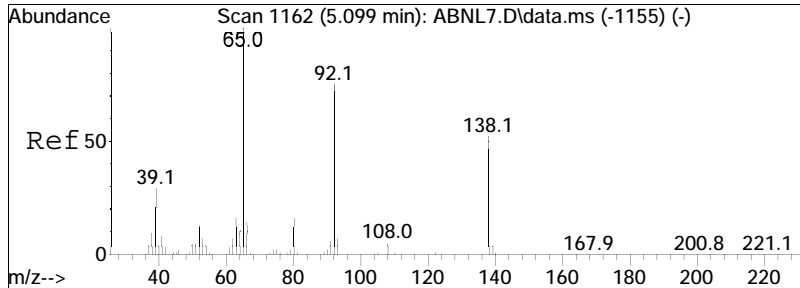




#54
 1,2-Dinitrobenzene
 Concen: 57.90 ug/ml
 RT: 5.155 min Scan# 1148
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

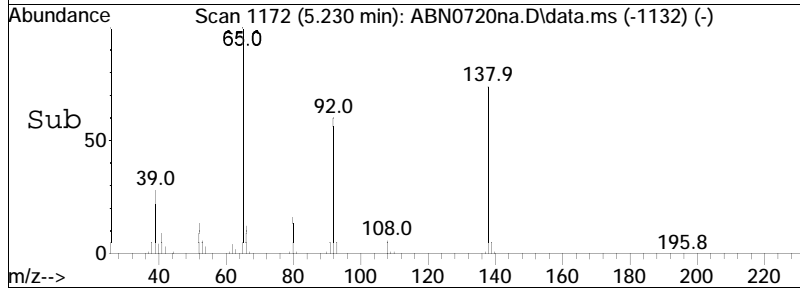
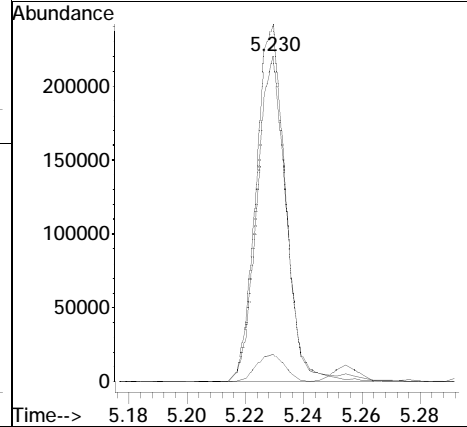
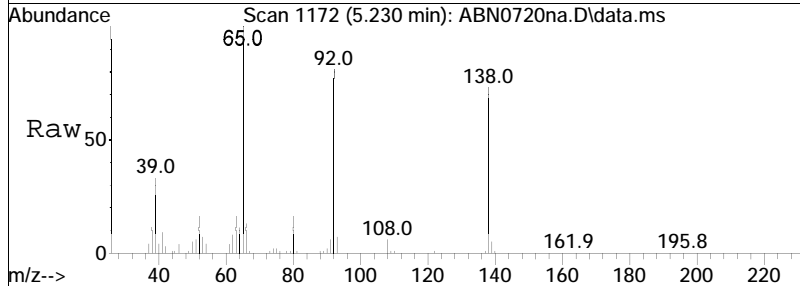
Tgt Ion: 168 Resp: 58378
 Ion Ratio Lower Upper
 168 100
 75 127.1 105.0 157.6

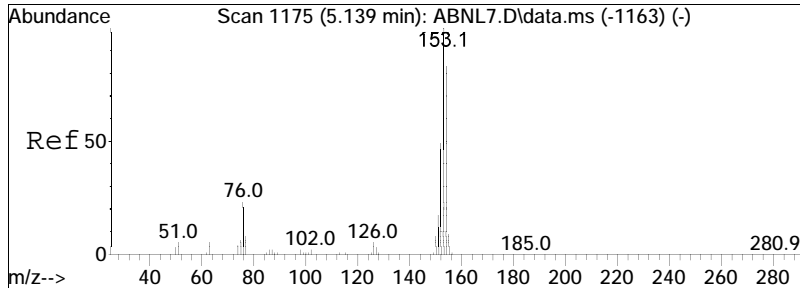




#64
 3-Nitroaniline
 Concen: 58.21 ug/ml
 RT: 5.230 min Scan# 1172
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

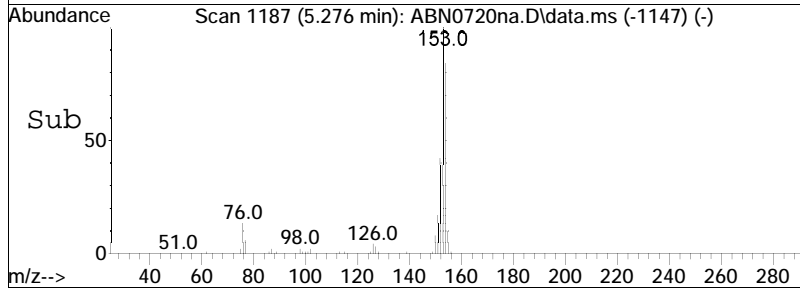
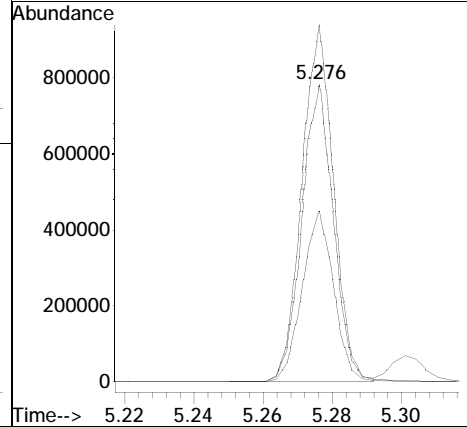
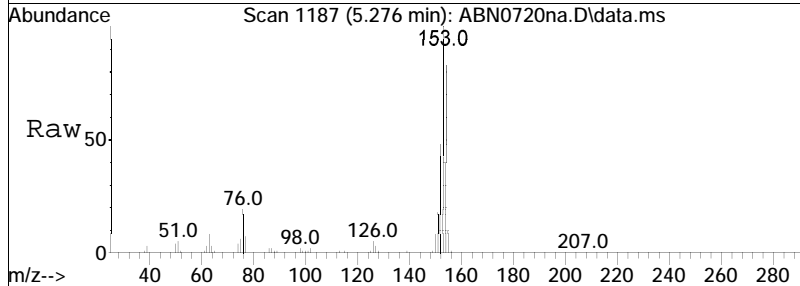
Tgt Ion	Ratio	Lower	Upper
138	100		
92	111.9	95.4	143.2
108	8.6	8.6	12.8

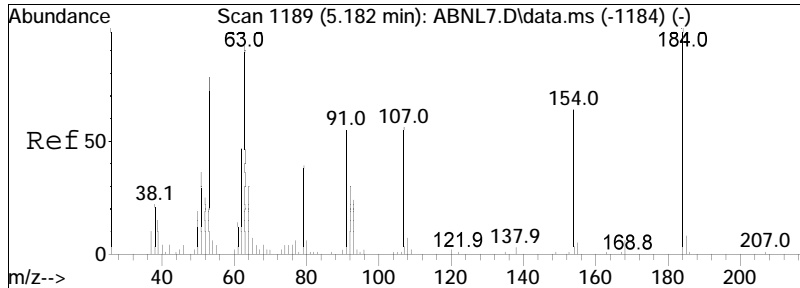




#65
 Acenaphthene
 Concen: 51.42 ug/ml
 RT: 5.276 min Scan# 1187
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

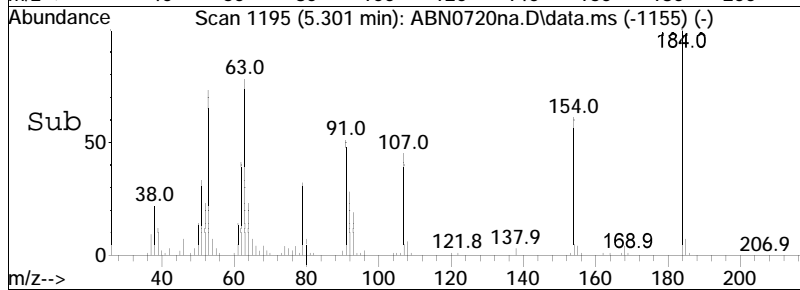
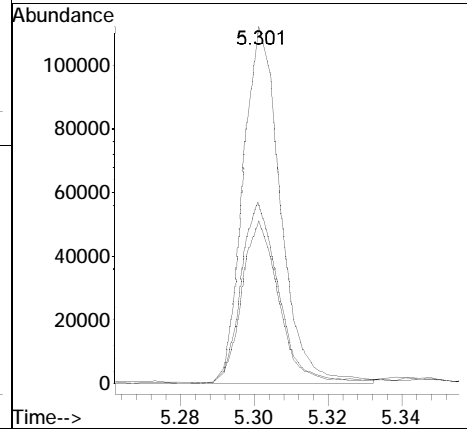
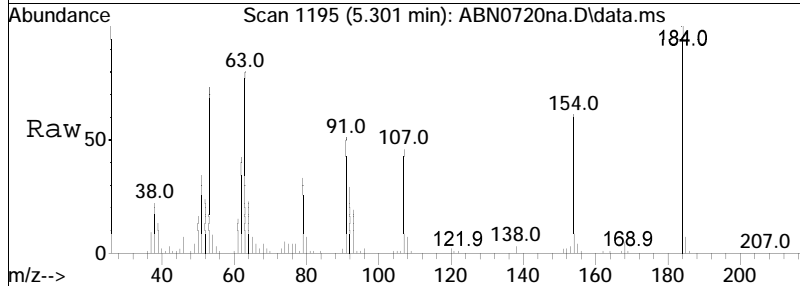
Tgt Ion	Resp	Lower	Upper
154	494277		
153	121.3	91.3	136.9
152	57.8	41.0	61.4

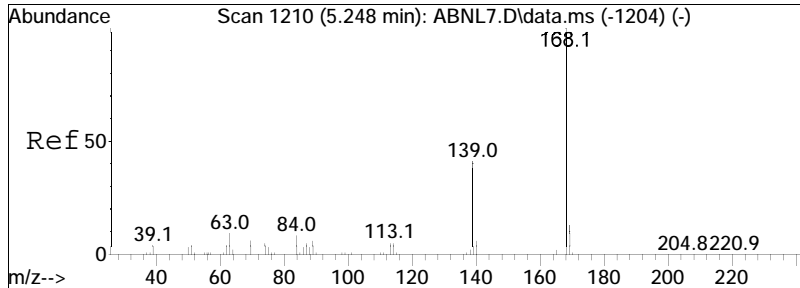




#66
 2,4-Dinitrophenol
 Concen: 45.47 ug/ml
 RT: 5.301 min Scan# 1195
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

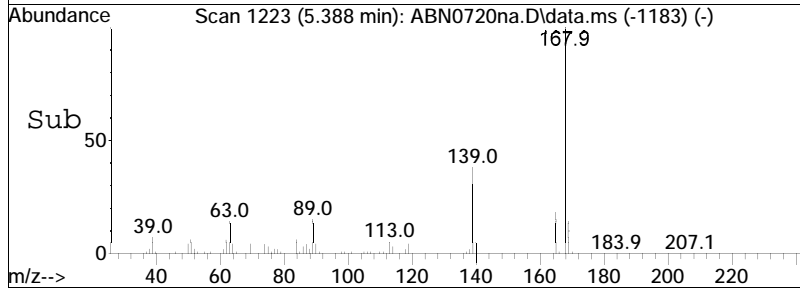
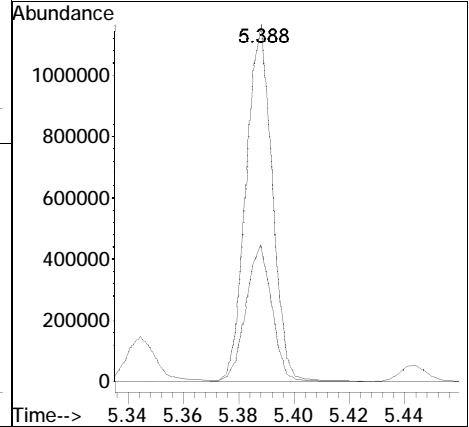
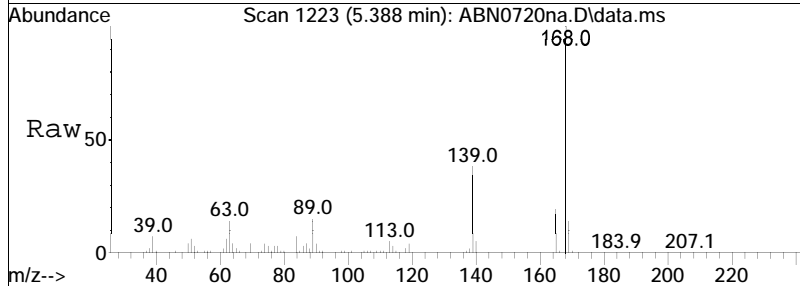
Tgt Ion	Ratio	Lower	Upper
184	100		
107	45.2	41.8	62.6
91	51.2	46.1	69.1

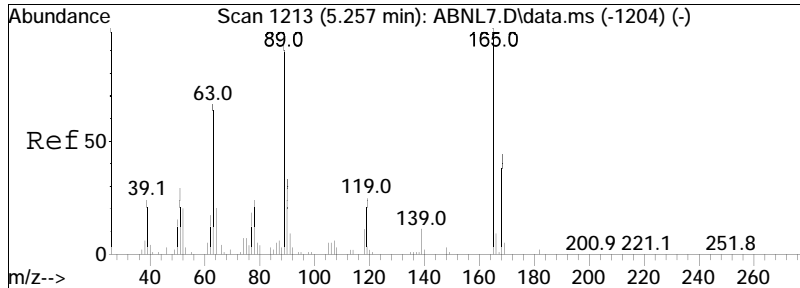




#67
 Dibenzofuran
 Concen: 50.86 ug/ml
 RT: 5.388 min Scan# 1223
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

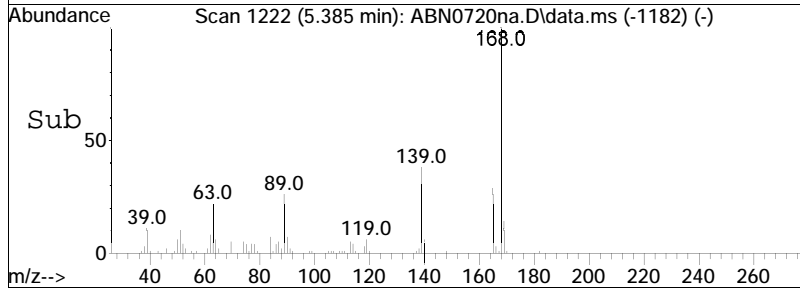
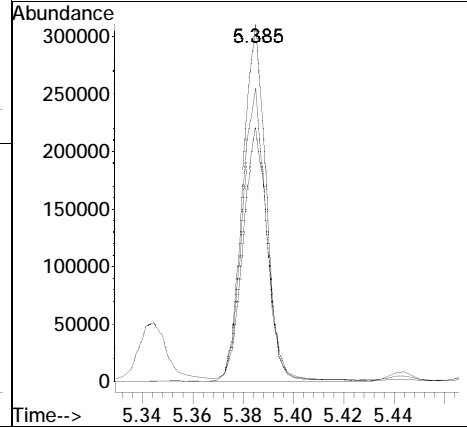
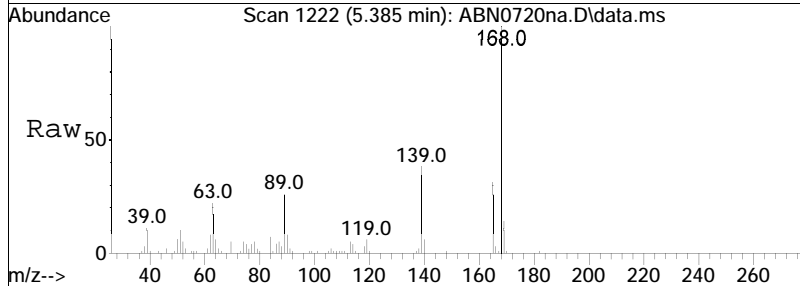
Tgt Ion	Resp	Lower	Upper
168	100		
139	38.7	33.2	49.8

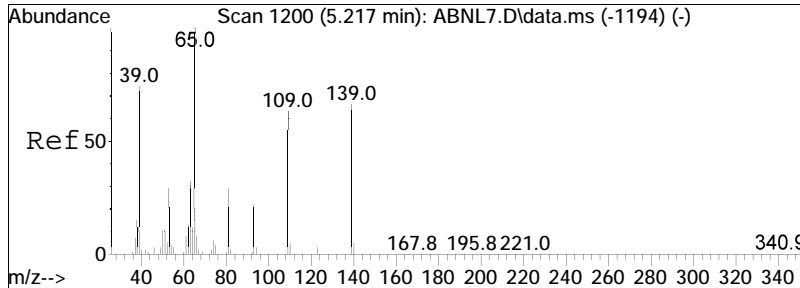




#68
 2,4-Dinitrotoluene
 Concen: 56.85 ug/ml
 RT: 5.385 min Scan# 1222
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

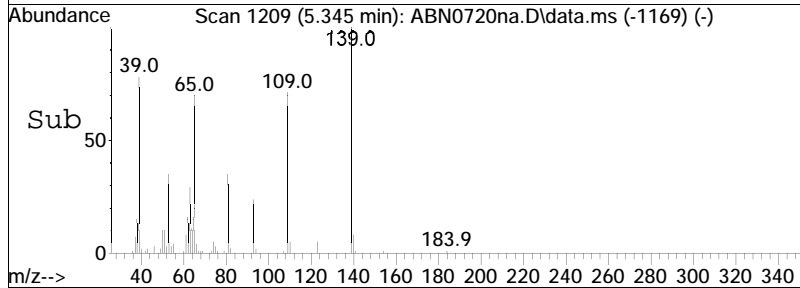
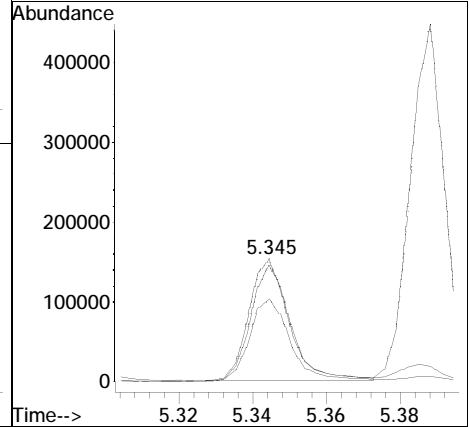
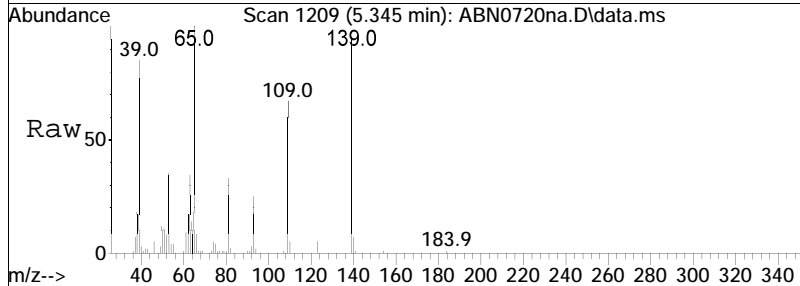
Tgt Ion	Ratio	Lower	Upper
165	100		
89	83.0	75.7	113.5
63	73.9	62.6	94.0

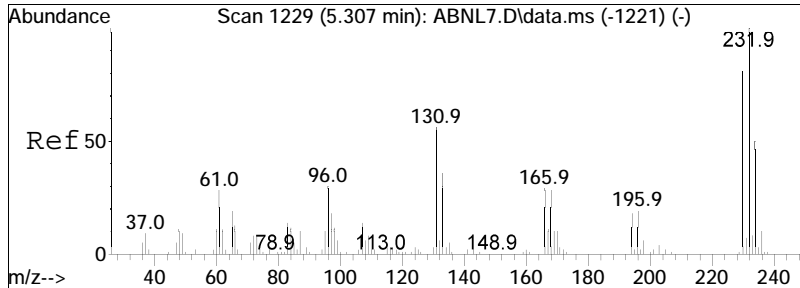




#69
 4-Nitrophenol
 Concen: 50.93 ug/ml
 RT: 5.345 min Scan# 1209
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

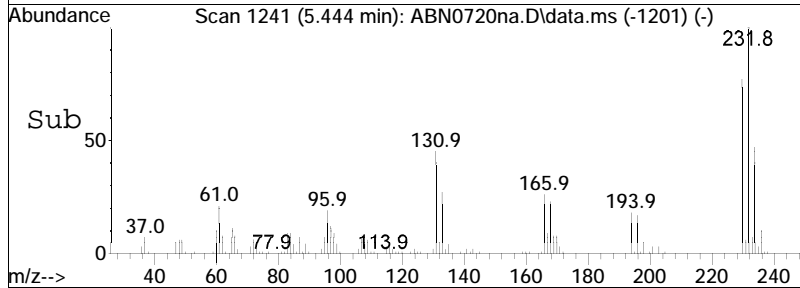
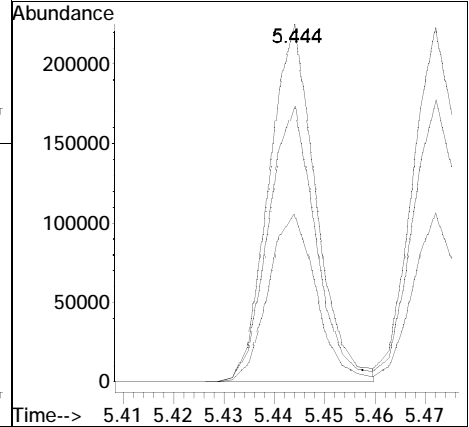
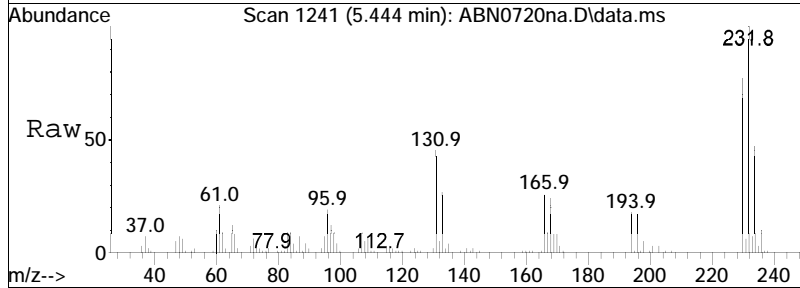
Tgt Ion:	Resp:	Lower	Upper
65	100		
109	69.0	55.4	83.2
139	94.9	72.9	109.3

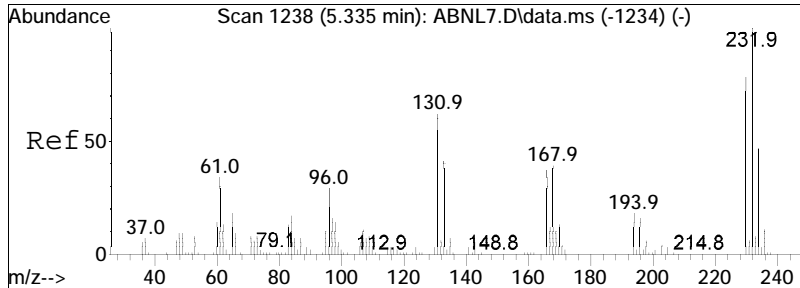




#70
 2,3,5,6-Tetrachlorophenol
 Concen: 49.48 ug/ml
 RT: 5.444 min Scan# 1241
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

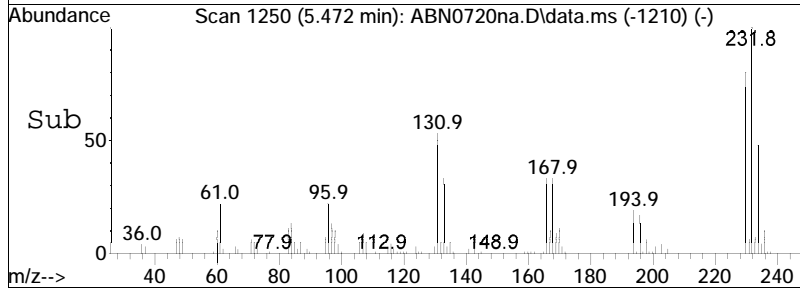
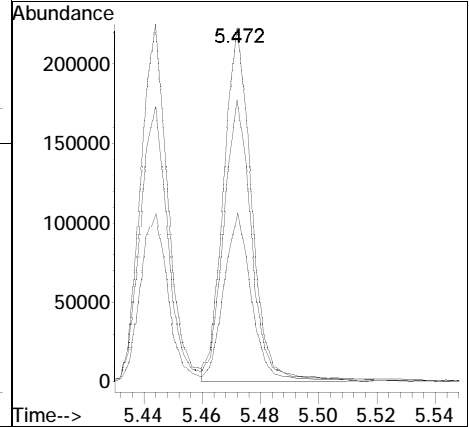
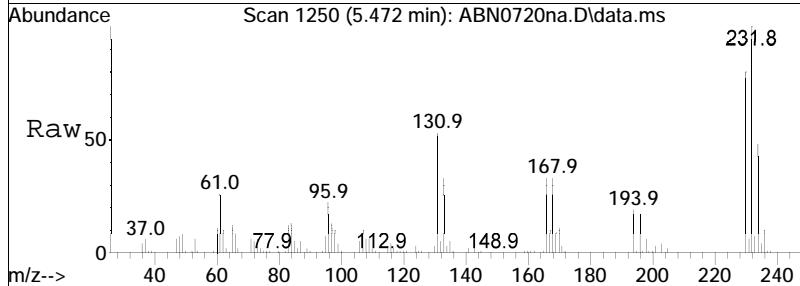
Tgt Ion	Resp	Lower	Upper
232	145535		
232	100		
230	78.4	65.0	97.6
234	48.1	37.8	56.8

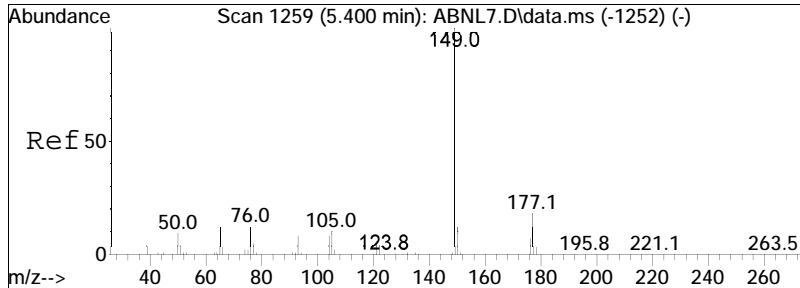




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 48.99 ug/ml
 RT: 5.472 min Scan# 1250
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

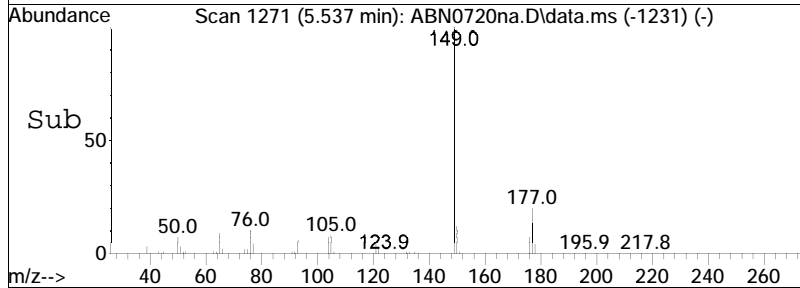
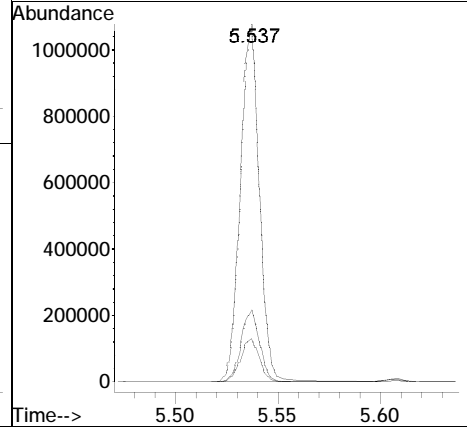
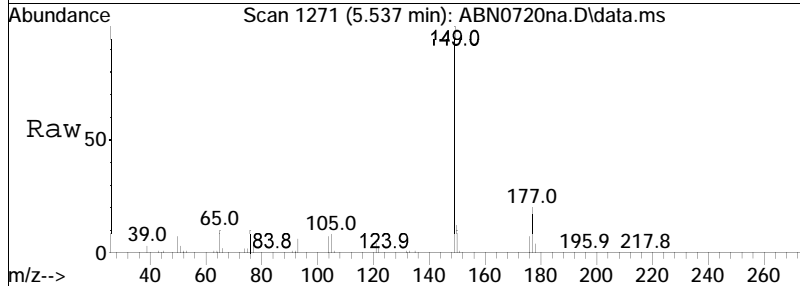
Tgt Ion	Resp	Lower	Upper
232	100		
230	78.9	63.7	95.5
234	47.6	38.4	57.6

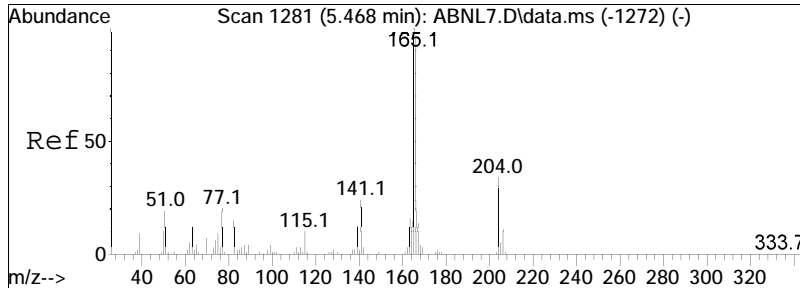




#72
 Diethyl phthalate
 Concen: 56.52 ug/ml
 RT: 5.537 min Scan# 1271
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

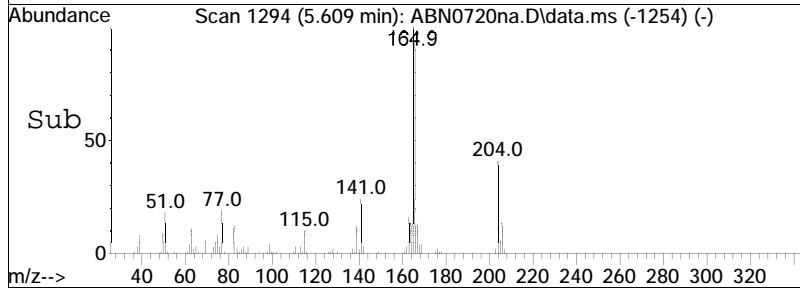
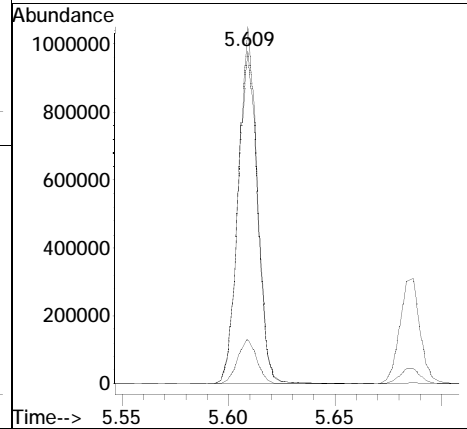
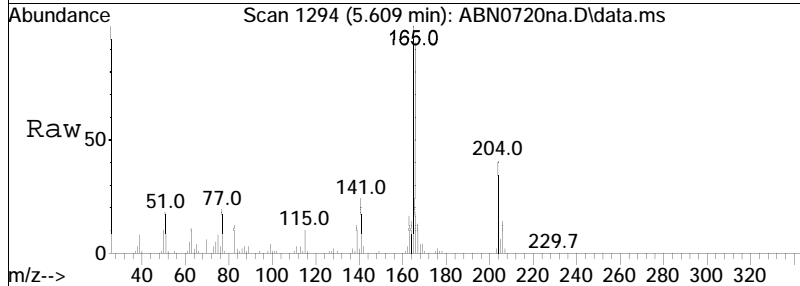
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.8	15.5	23.3
150	12.1	9.5	14.3

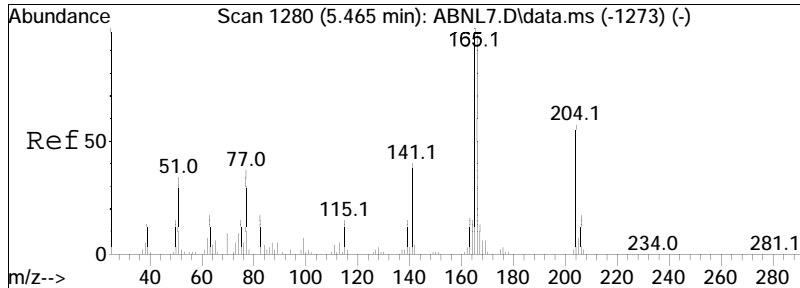




#73
 Fluorene
 Concen: 50.43 ug/ml
 RT: 5.609 min Scan# 1294
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

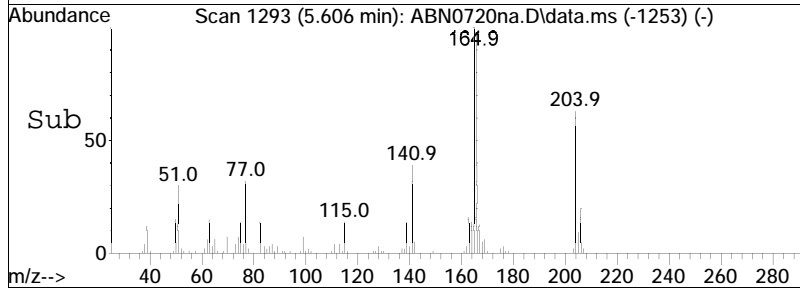
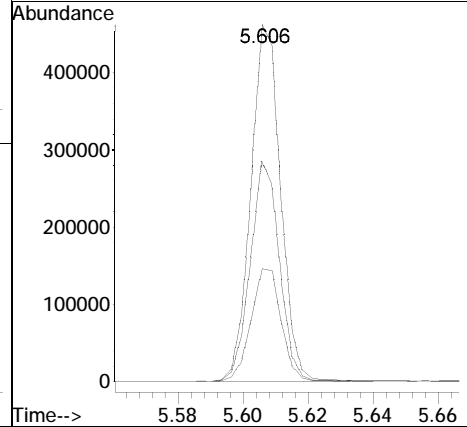
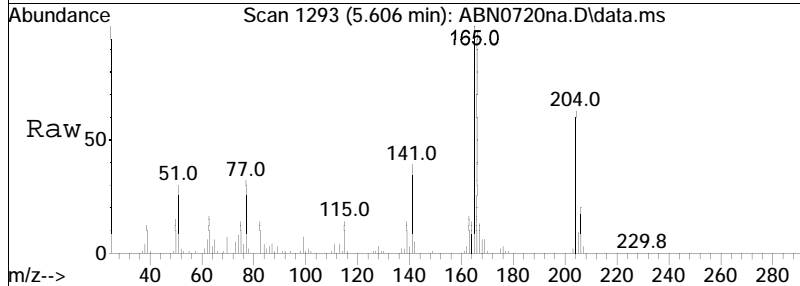
Tgt Ion	Resp	Lower	Upper
166	100		
165	104.6	79.3	118.9
167	13.3	10.6	16.0

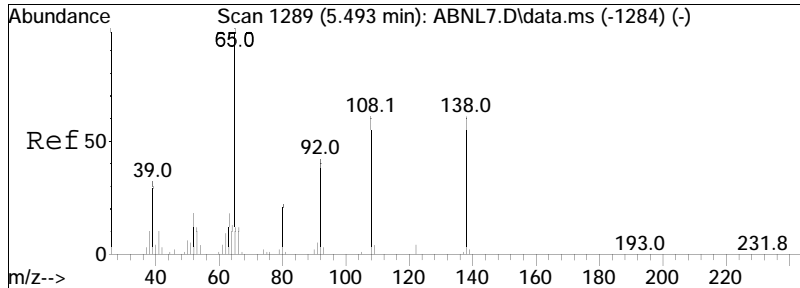




#74
 4-Chlorophenyl phenyl ether
 Concen: 48.94 ug/ml
 RT: 5.606 min Scan# 1293
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

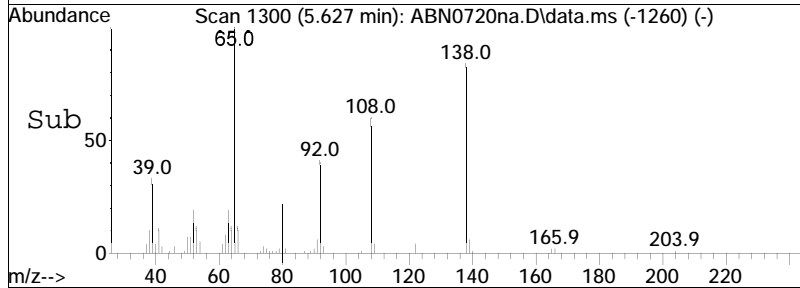
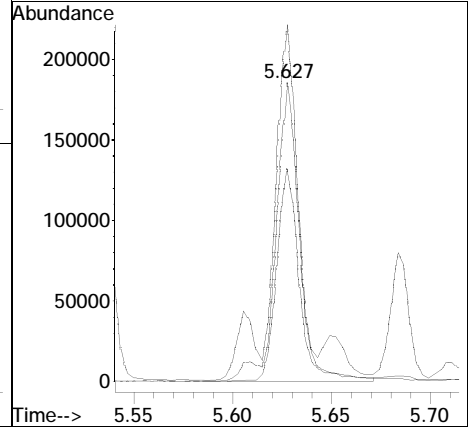
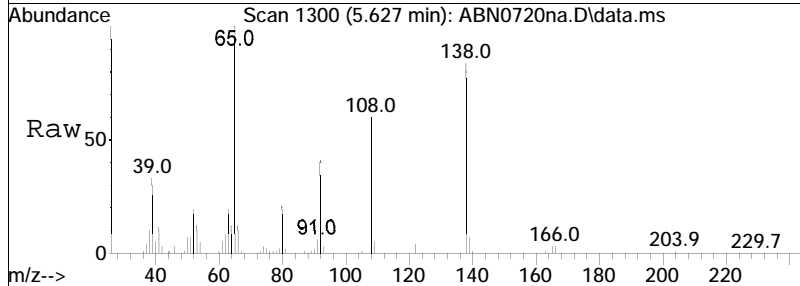
Tgt Ion	Ratio	Lower	Upper
204	100		
206	32.2	26.2	39.4
141	60.9	57.2	85.8

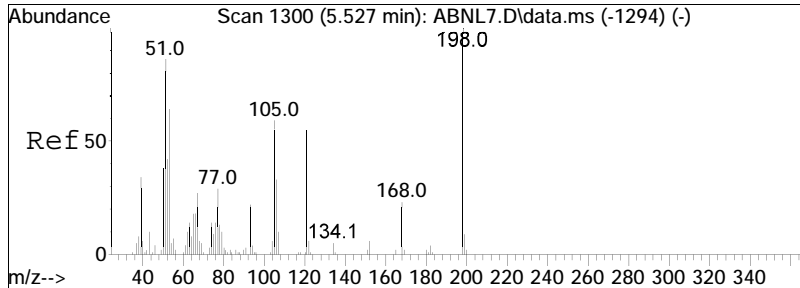




#75
 4-Nitroaniline
 Concen: 52.99 ug/ml
 RT: 5.627 min Scan# 1300
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

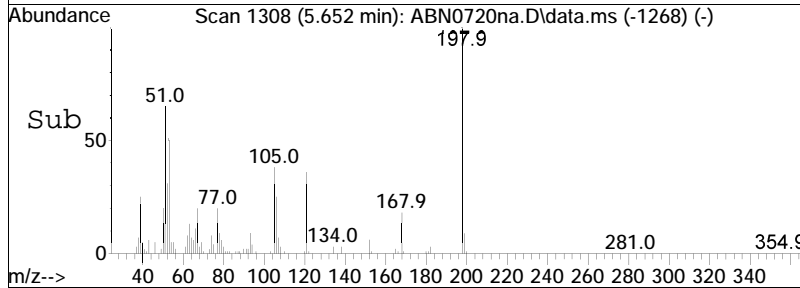
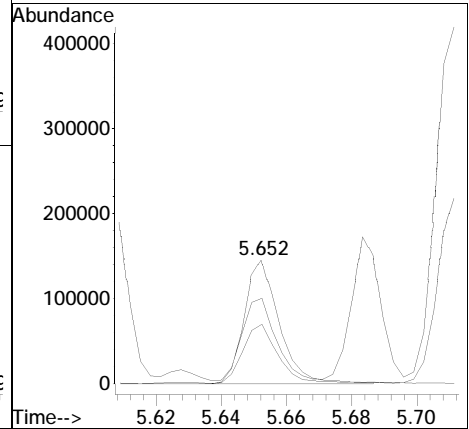
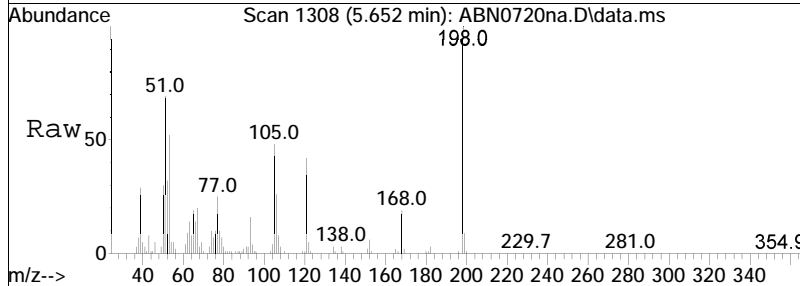
Tgt Ion	Ratio	Lower	Upper
138	100		
108	69.4	62.7	94.1
65	108.3	107.8	161.6

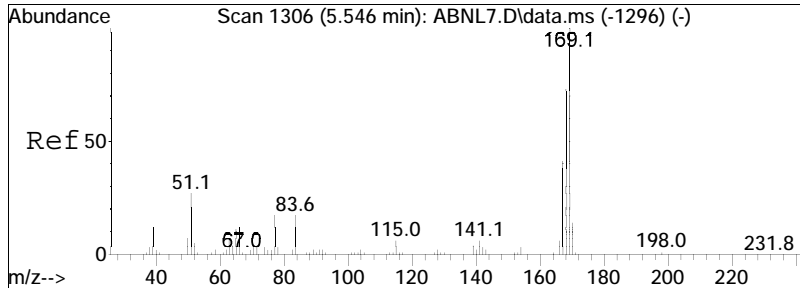




#76
 4,6-Dinitro-o-cresol
 Concen: 57.56 ug/ml
 RT: 5.652 min Scan# 1308
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

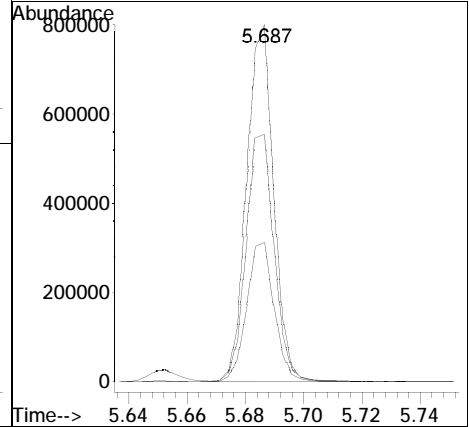
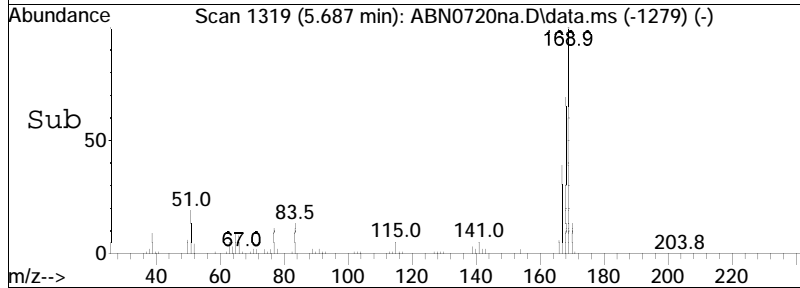
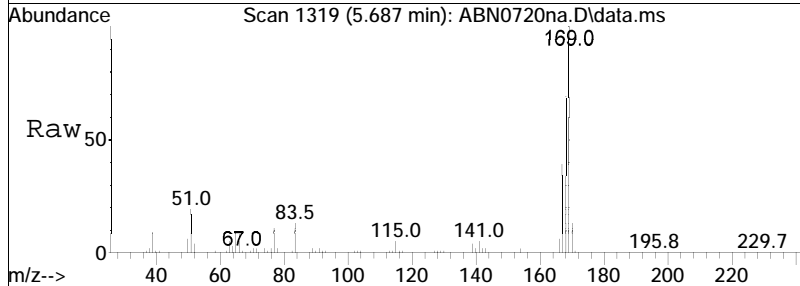
Tgt Ion	Resp	Lower	Upper
198	108578		
51	69.7	59.0	88.4
105	49.0	45.0	67.6

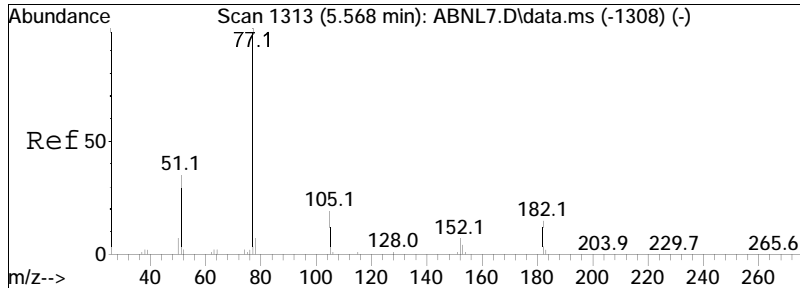




#77
 NDPA/DPA
 Concen: 52.70 ug/ml
 RT: 5.687 min Scan# 1319
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

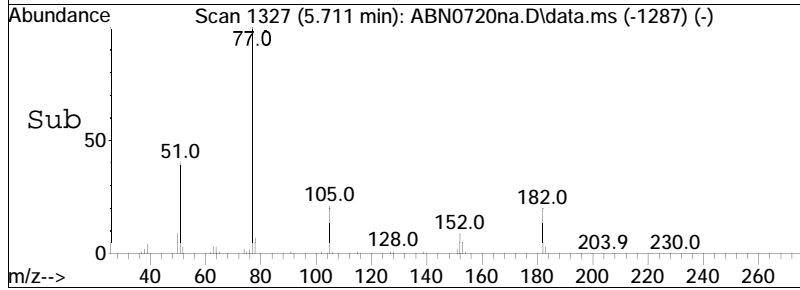
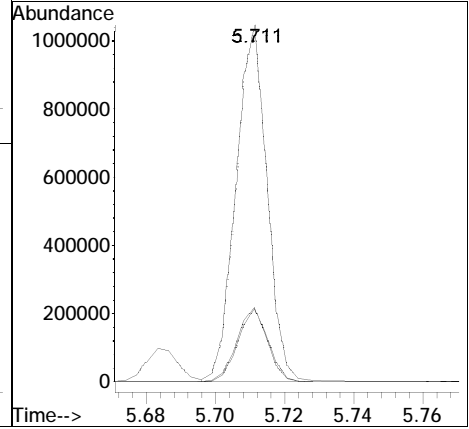
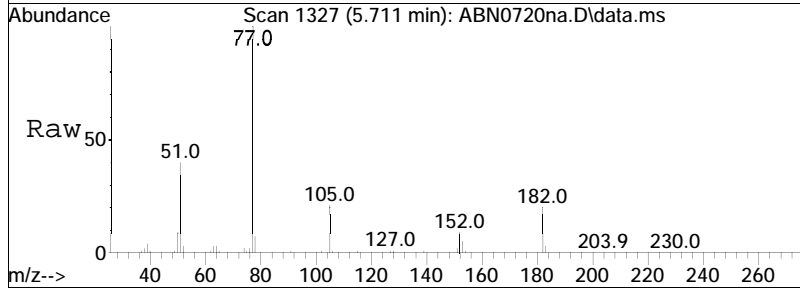
Tgt Ion	Ratio	Lower	Upper
169	100		
168	72.4	55.4	83.0
167	40.3	30.3	45.5

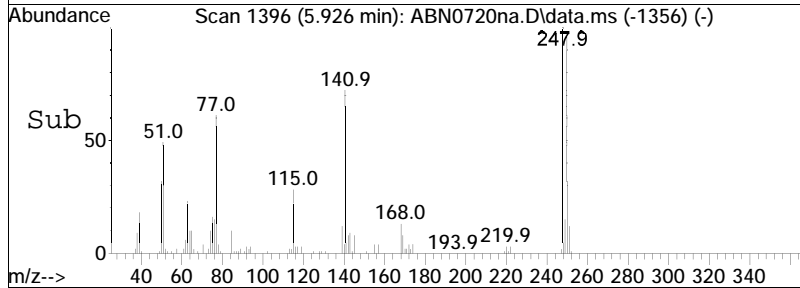
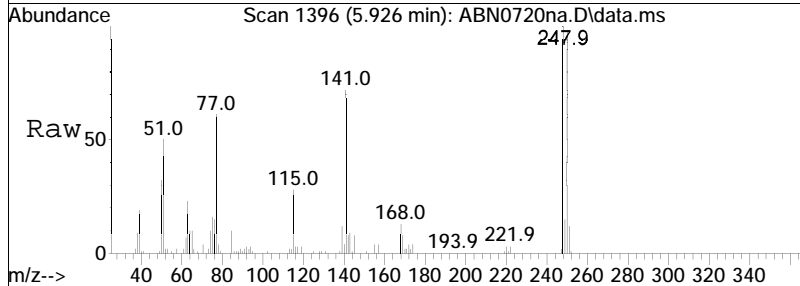
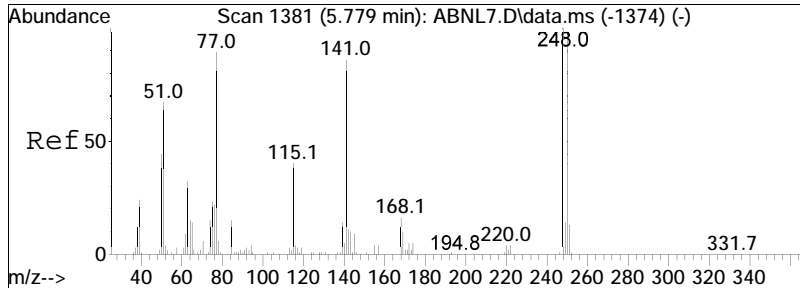




#78
 Azobenzene
 Concen: 54.12 ug/ml
 RT: 5.711 min Scan# 1327
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

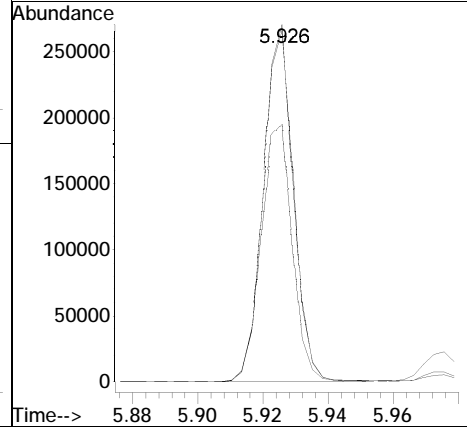
Tgt Ion	Resp	Lower	Upper
77	100		
182	20.3	16.0	24.0
105	20.6	15.6	23.4

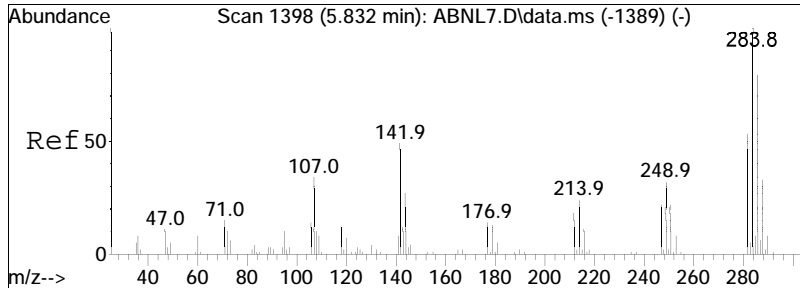




#80
 4-Bromophenyl phenyl ether
 Concen: 48.27 ug/ml
 RT: 5.926 min Scan# 1396
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

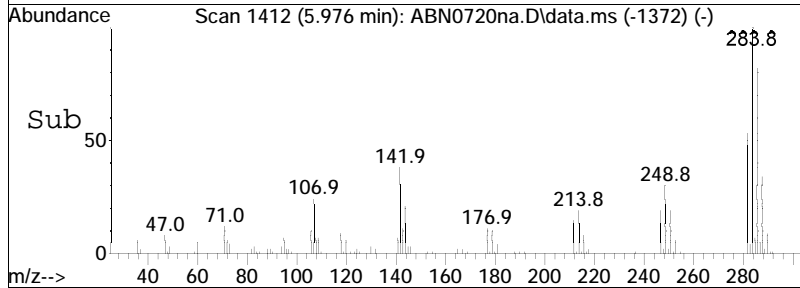
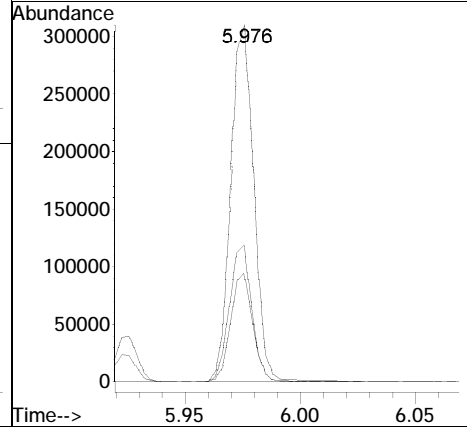
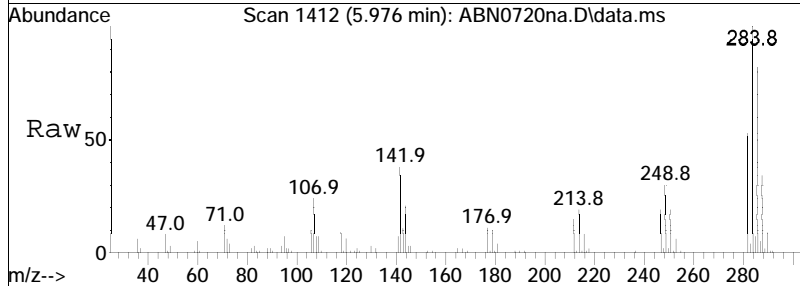
Tgt Ion	Ratio	Lower	Upper
248	100		
141	75.8	76.8	115.2#
250	100.0	79.7	119.5

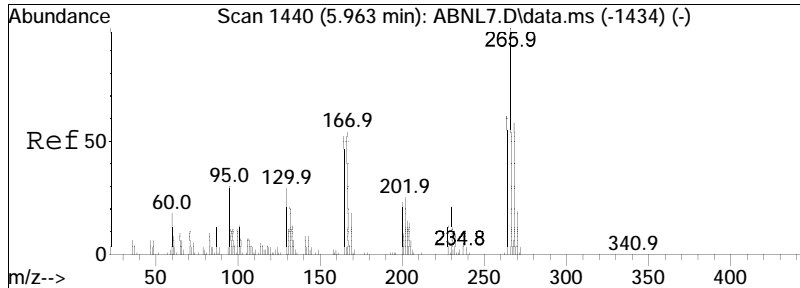




#81
 Hexachlorobenzene
 Concen: 49.38 ug/ml
 RT: 5.976 min Scan# 1412
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

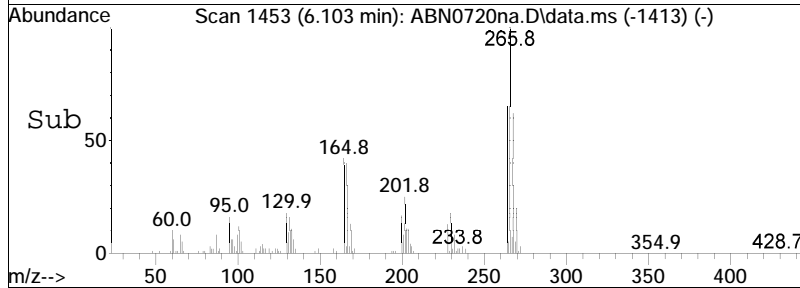
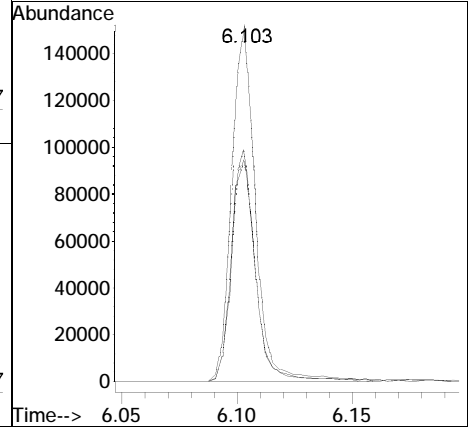
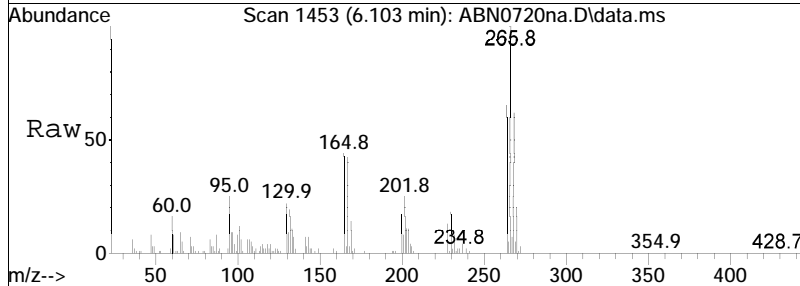
Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.5	35.8	53.6
249	29.3	24.7	37.1

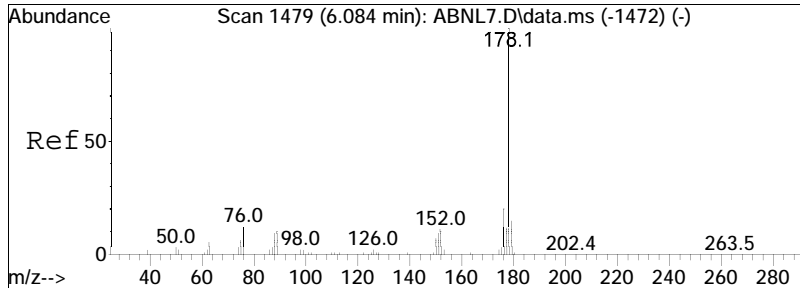




#82
 Pentachlorophenol
 Concen: 40.20 ug/ml
 RT: 6.103 min Scan# 1453
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

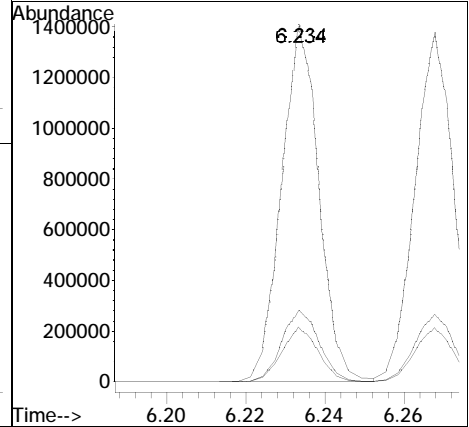
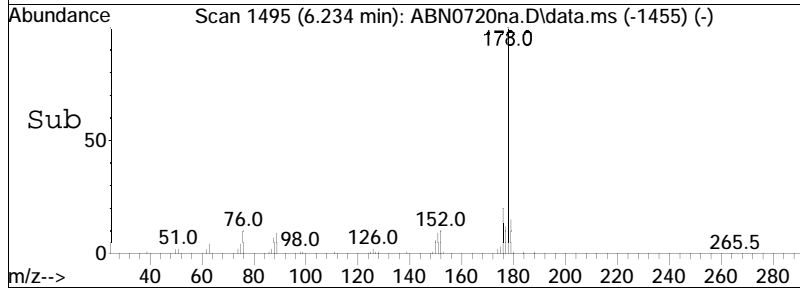
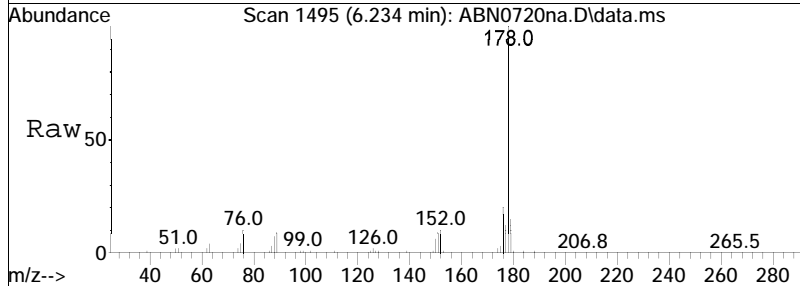
Tgt Ion	Ratio	Lower	Upper
266	100		
264	65.3	51.8	77.6
268	63.6	49.8	74.8

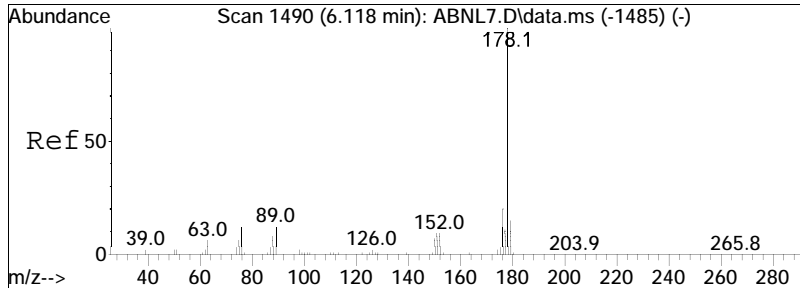




#89
 Phenanthrene
 Concen: 52.53 ug/ml
 RT: 6.234 min Scan# 1495
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

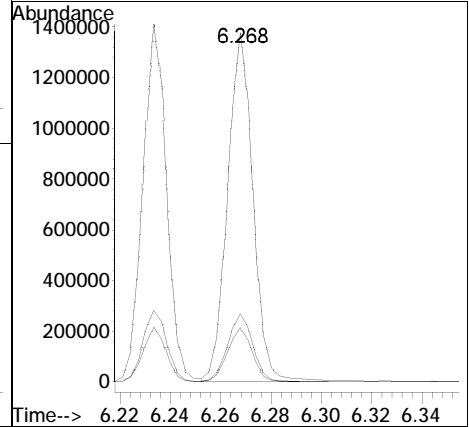
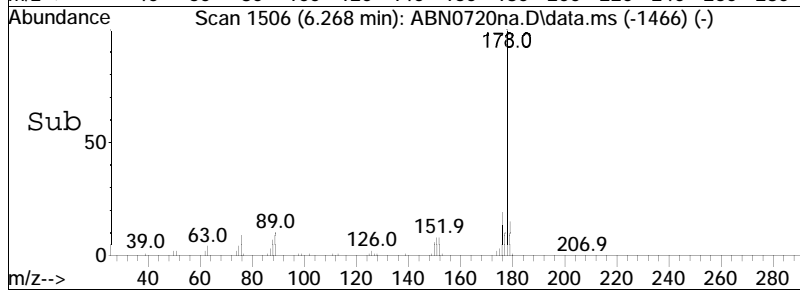
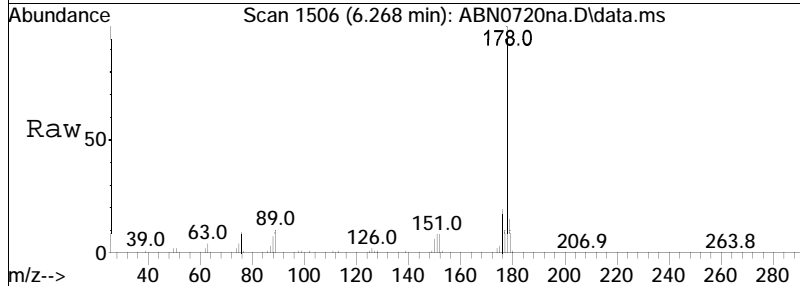
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.0	12.2	18.2
176	20.1	15.4	23.2

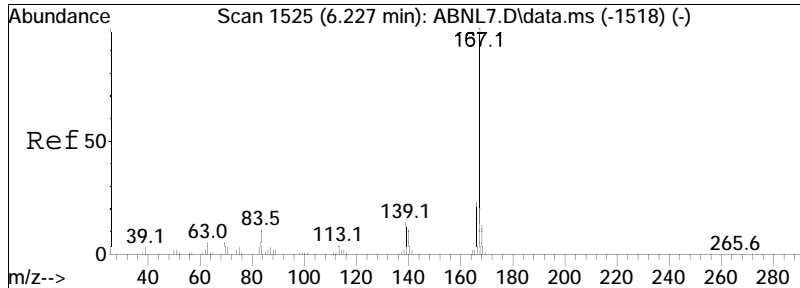




#90
 Anthracene
 Concen: 54.47 ug/ml
 RT: 6.268 min Scan# 1506
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

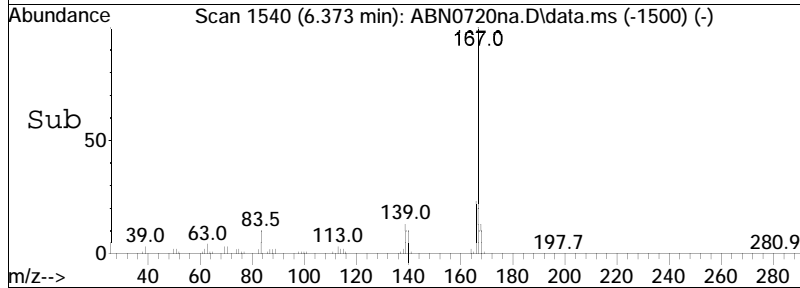
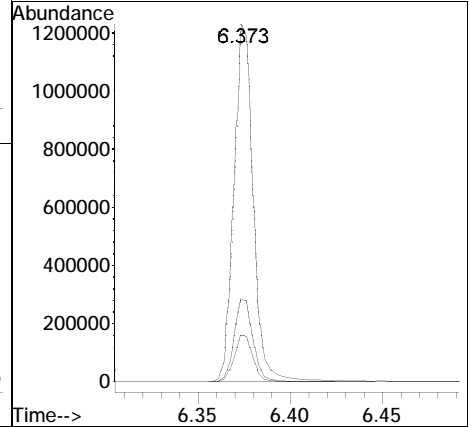
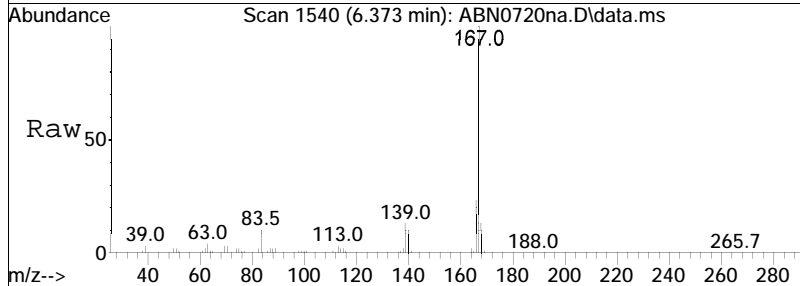
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.1	18.1
176	19.6	14.8	22.2

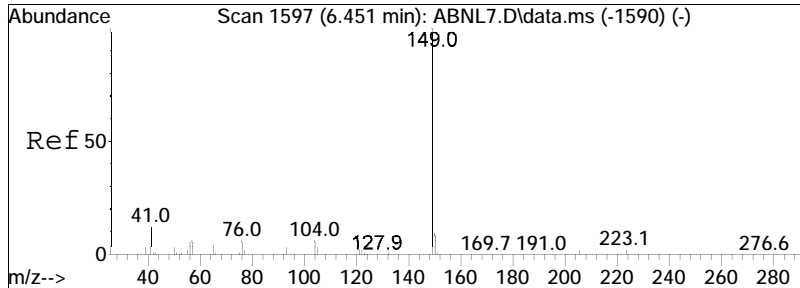




#91
 Carbazole
 Concen: 57.04 ug/ml
 RT: 6.373 min Scan# 1540
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

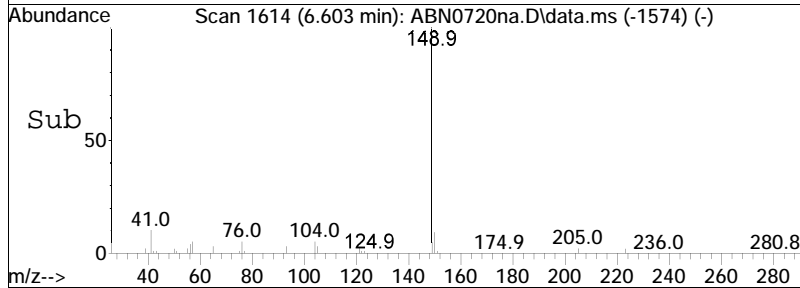
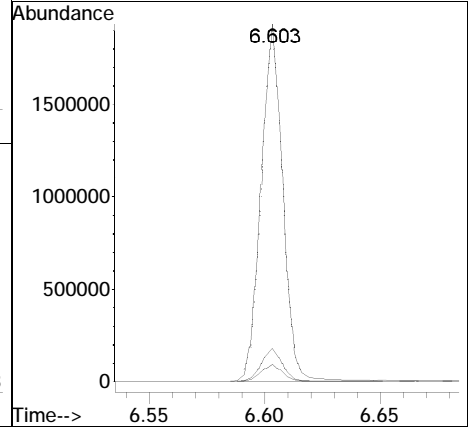
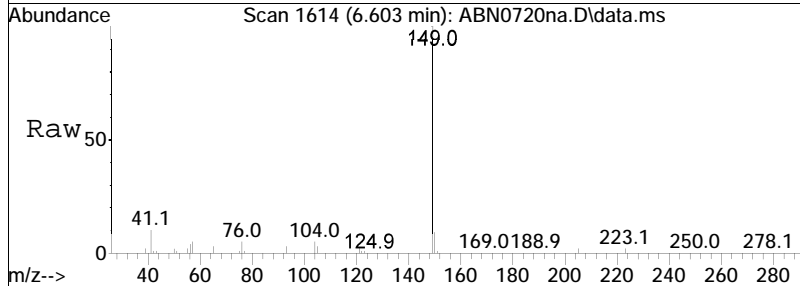
Tgt Ion	Resp	Lower	Upper
167	100		
168	13.0	10.6	15.8
166	23.0	17.7	26.5

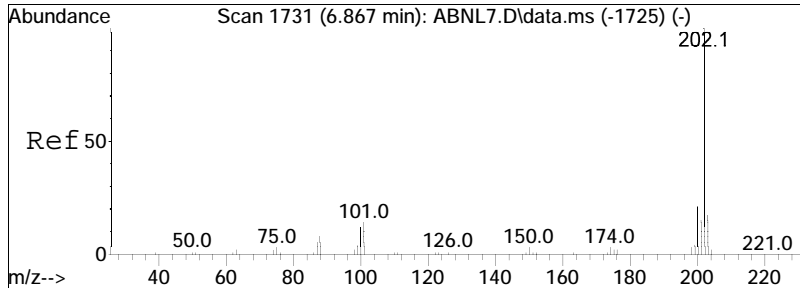




#92
 Di-n-butylphthalate
 Concen: 63.94 ug/ml
 RT: 6.603 min Scan# 1614
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

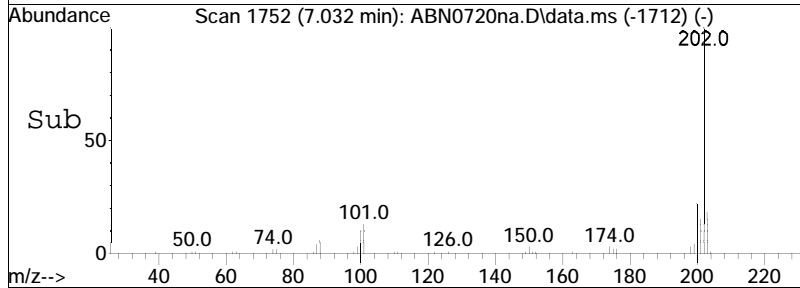
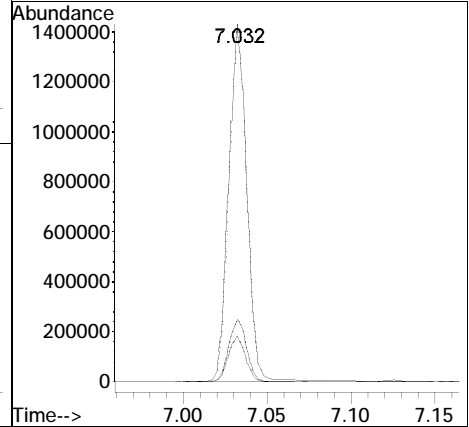
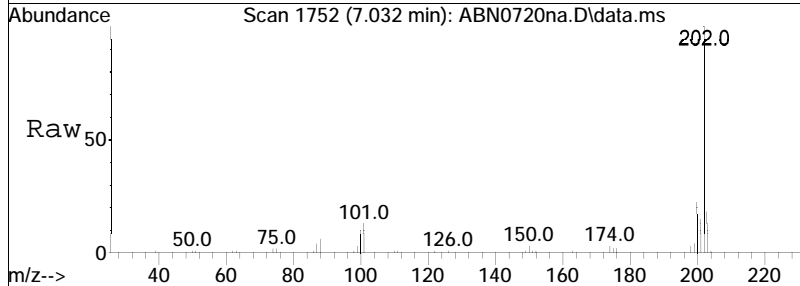
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	4.8	4.2	6.2

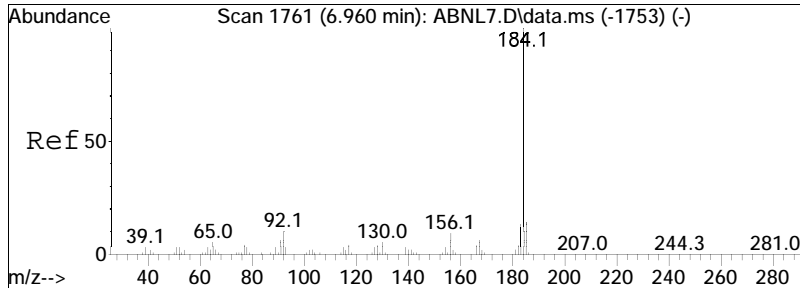




#93
 Fluoranthene
 Concen: 52.29 ug/ml
 RT: 7.032 min Scan# 1752
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

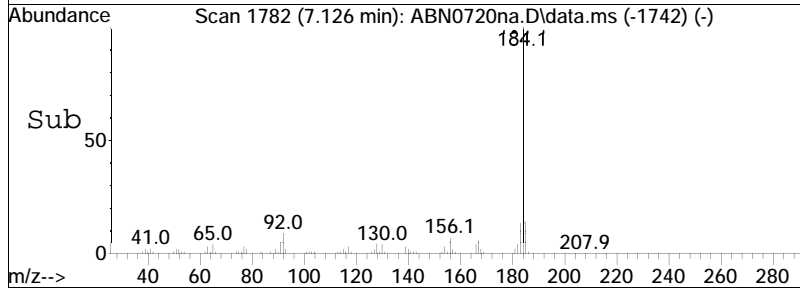
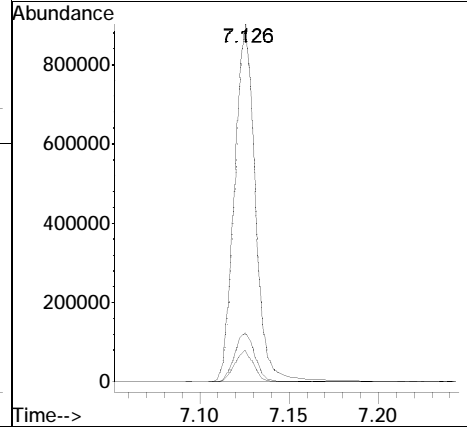
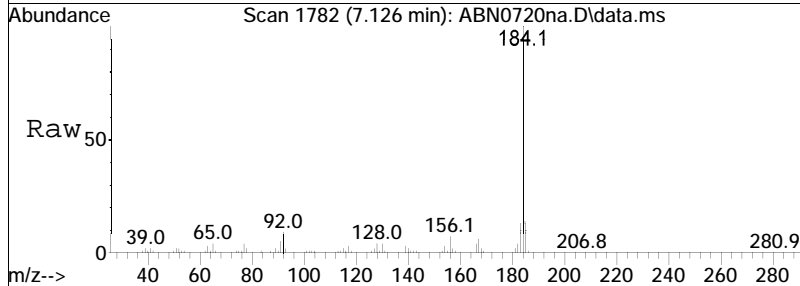
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.4	11.4	17.0
203	17.4	13.9	20.9

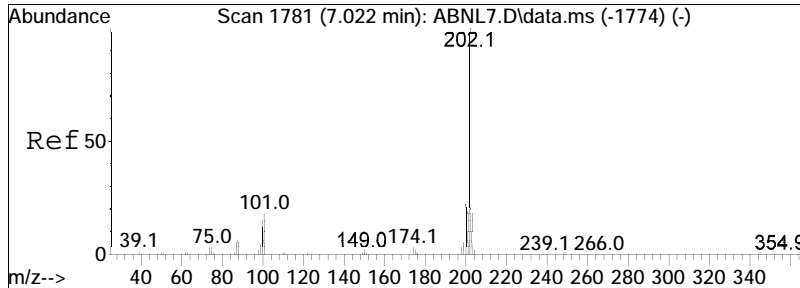




#94
 Benzidine
 Concen: 60.14 ug/ml
 RT: 7.126 min Scan# 1782
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

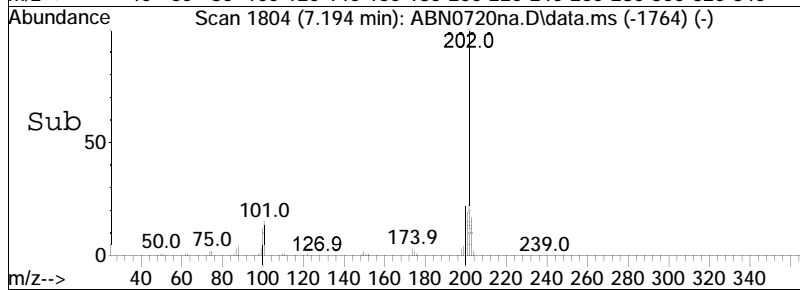
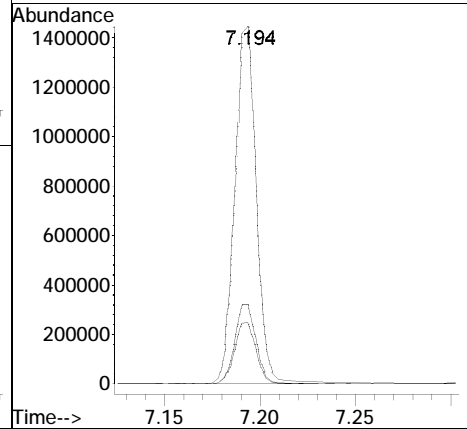
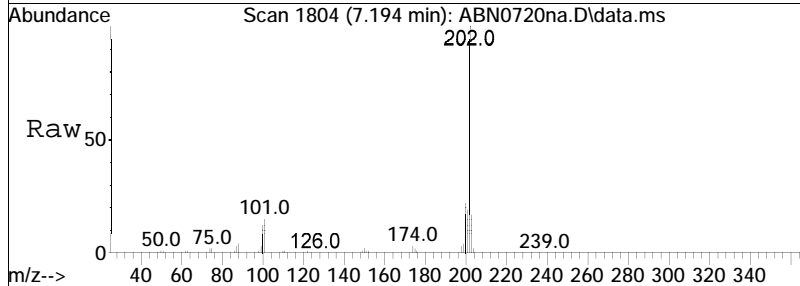
Tgt Ion	Ratio	Lower	Upper
184	100		
92	8.4	7.6	11.4
185	13.8	11.5	17.3

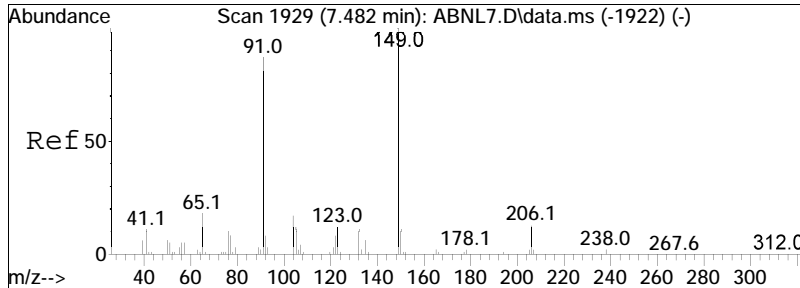




#95
 Pyrene
 Concen: 52.99 ug/ml
 RT: 7.194 min Scan# 1804
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

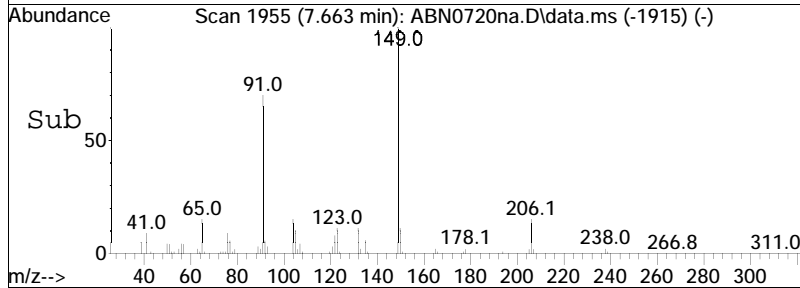
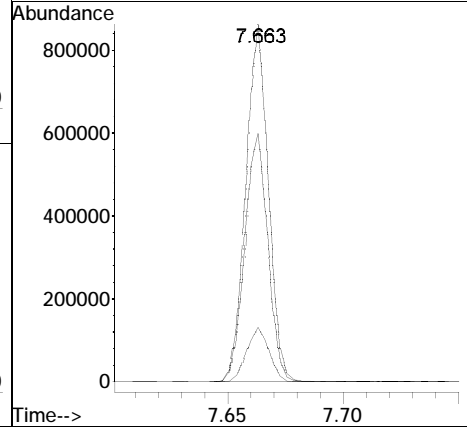
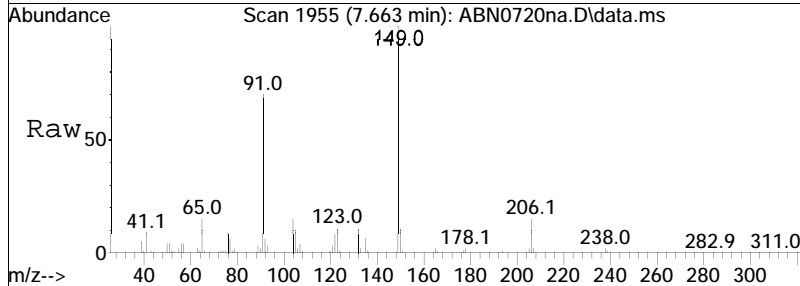
Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.3	17.0	25.4
203	17.4	14.2	21.2

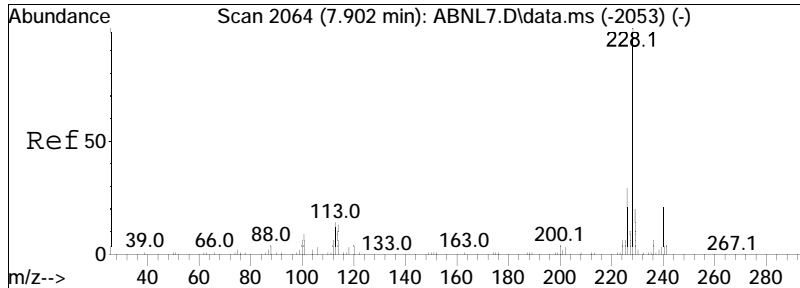




#97
 Butyl benzyl phthalate
 Concen: 63.46 ug/ml
 RT: 7.663 min Scan# 1955
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

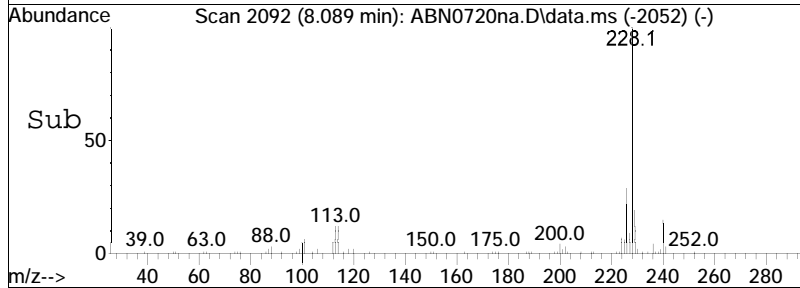
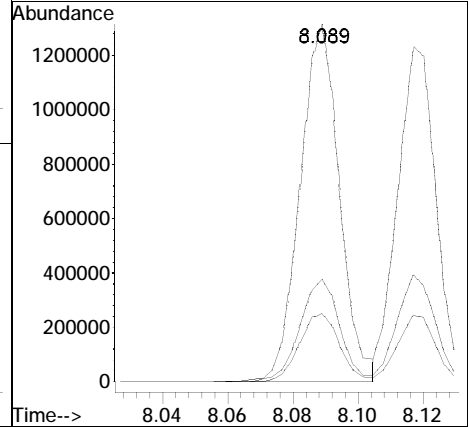
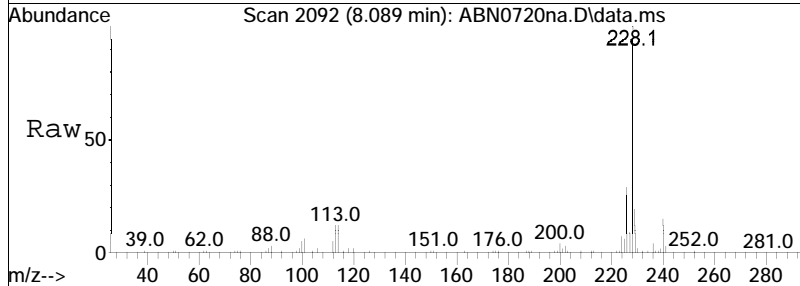
Tgt Ion	Ratio	Lower	Upper
149	100		
91	70.9	61.2	91.8
206	15.3	12.5	18.7

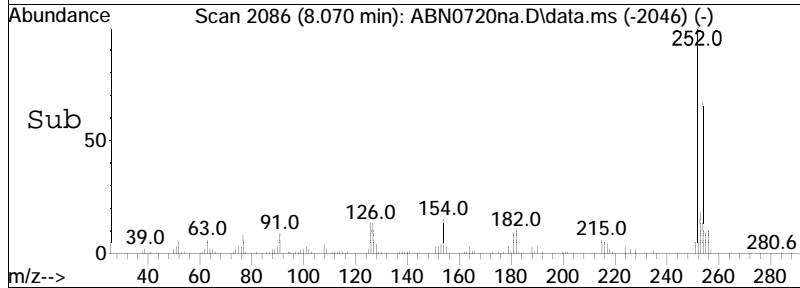
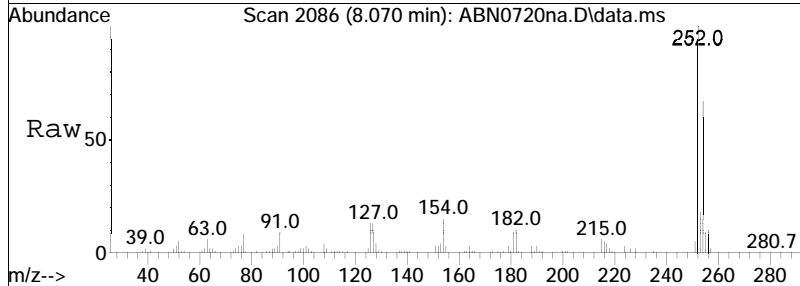
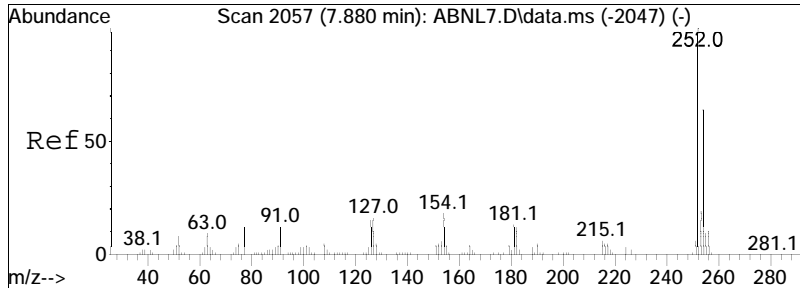




#105
 Benzo(a)anthracene
 Concen: 53.17 ug/ml
 RT: 8.089 min Scan# 2092
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

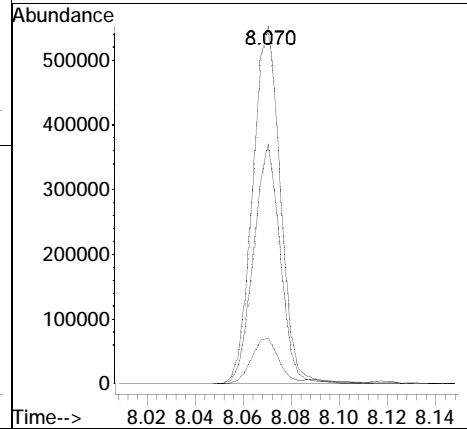
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.2	33.2
229	19.6	15.6	23.4

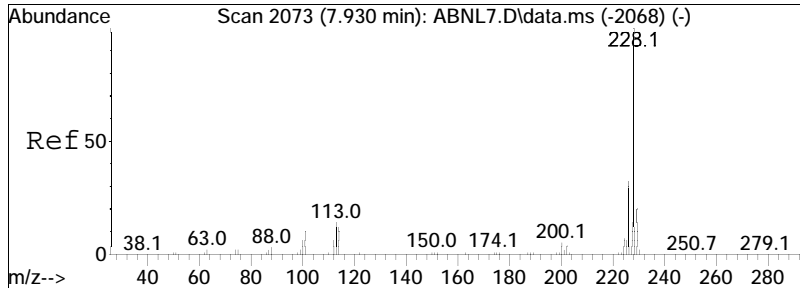




#106
 3,3'-Dichlorobenzidine
 Concen: 60.08 ug/ml
 RT: 8.070 min Scan# 2086
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

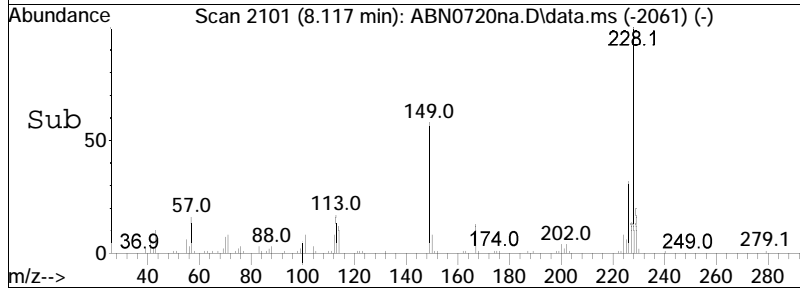
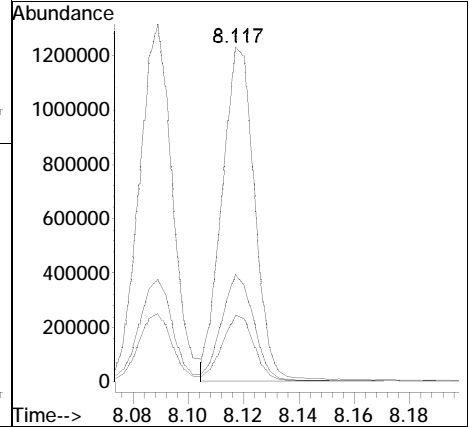
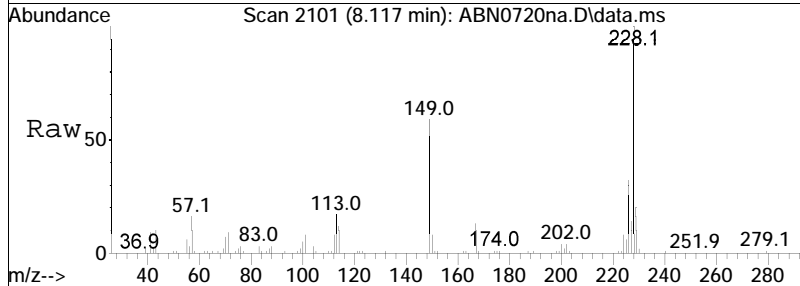
Tgt Ion	Ratio	Lower	Upper
252	100		
126	14.0	13.8	20.6
254	65.3	53.0	79.6

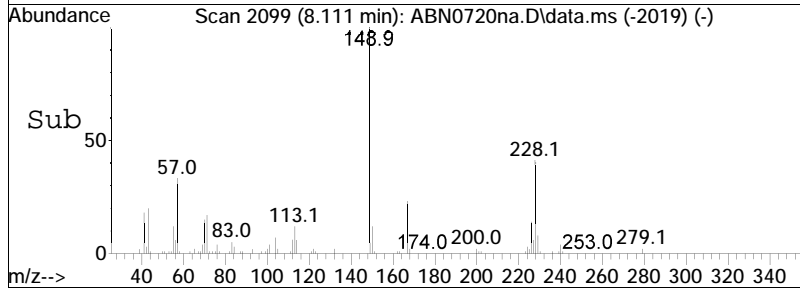
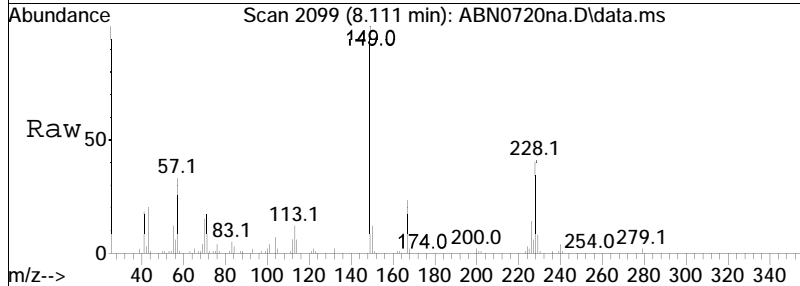
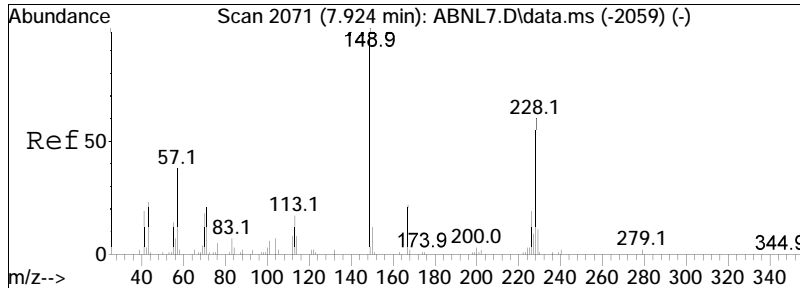




#107
 Chrysene
 Concen: 49.78 ug/ml
 RT: 8.117 min Scan# 2101
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

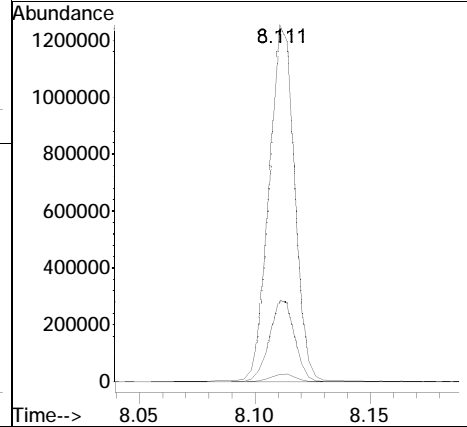
Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.2	24.6	37.0
229	19.6	15.8	23.6

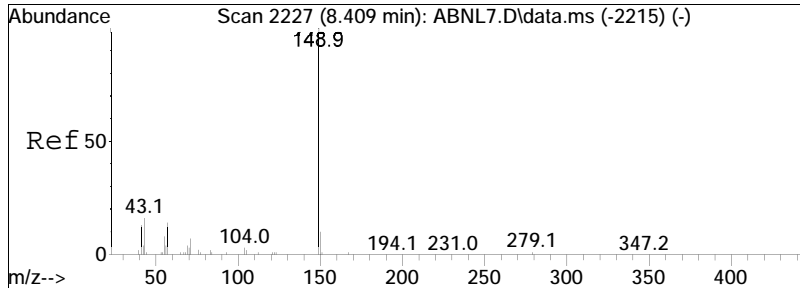




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 57.77 ug/ml
 RT: 8.111 min Scan# 2099
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

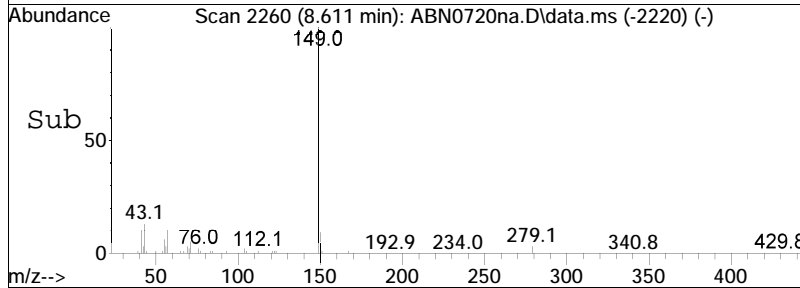
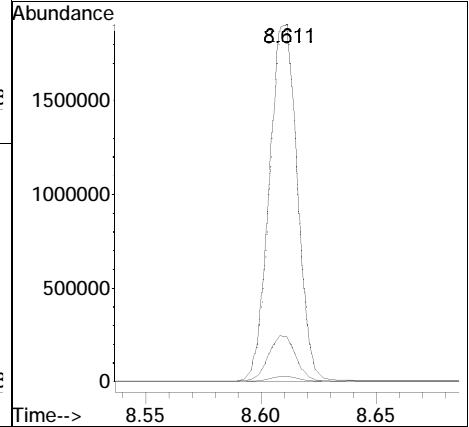
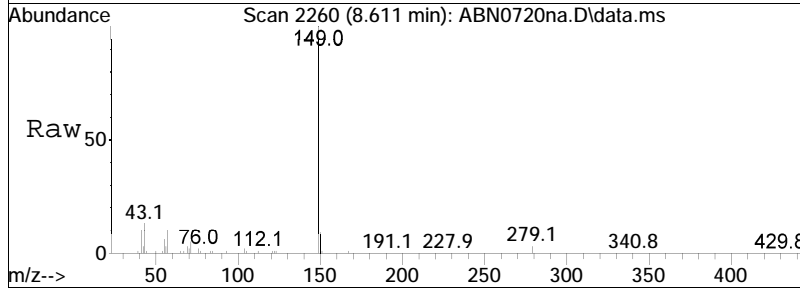
Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.6	19.4	29.0
279	2.2	2.3	3.5#

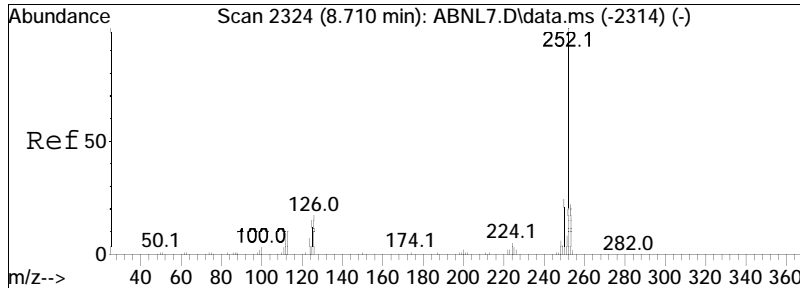




#109
 Di-n-octylphthalate
 Concen: 60.41 ug/ml
 RT: 8.611 min Scan# 2260
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

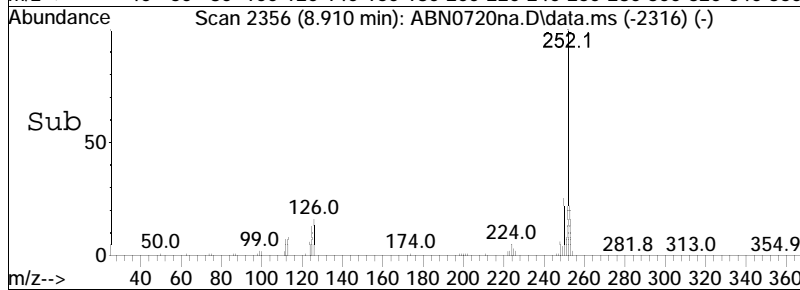
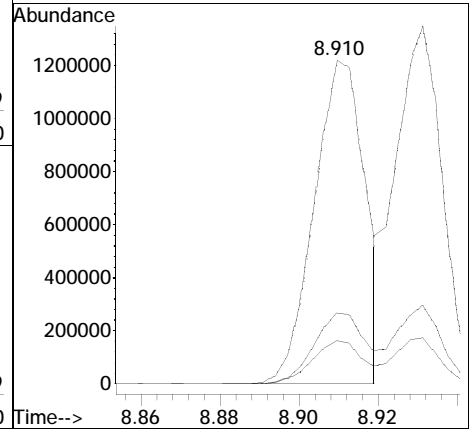
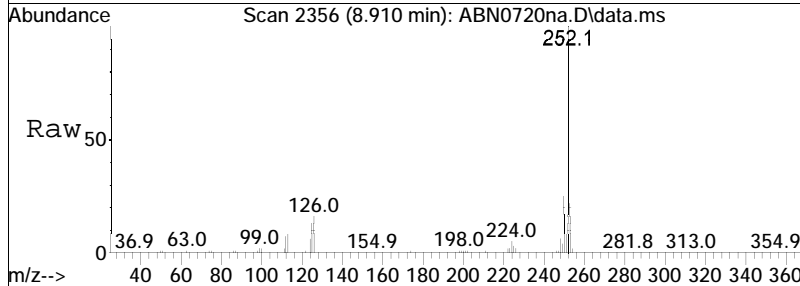
Tgt Ion	Ratio	Lower	Upper
149	100		
43	12.7	10.1	15.1
167	1.4	1.1	1.7

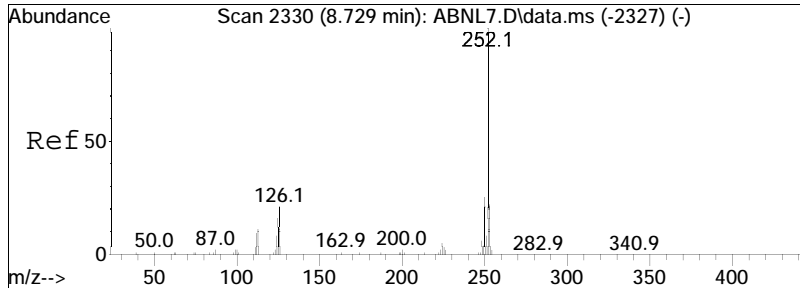




#110
 Benzo(b)fluoranthene
 Concen: 51.95 ug/ml
 RT: 8.910 min Scan# 2356
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

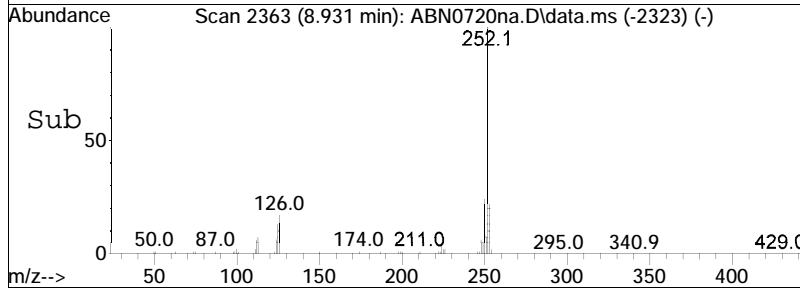
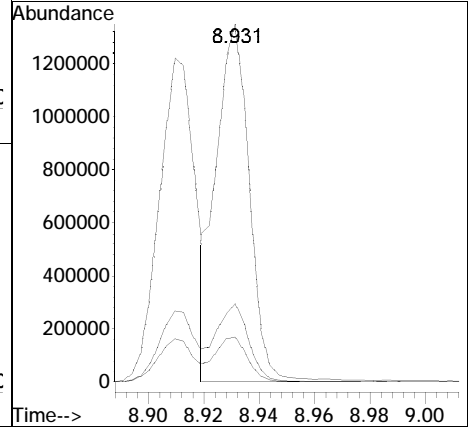
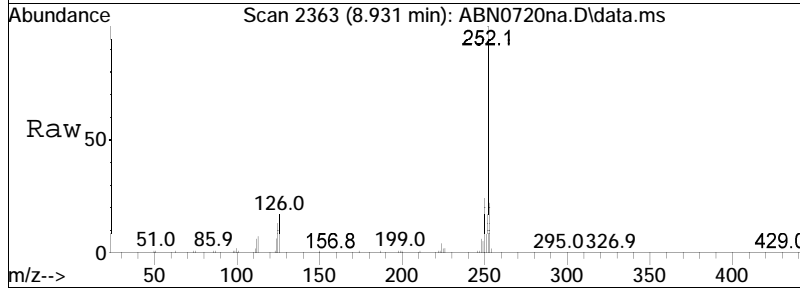
Tgt Ion	Resp	Lower	Upper
252	1091960		
125	13.3	11.6	17.4
253	21.9	17.4	26.0

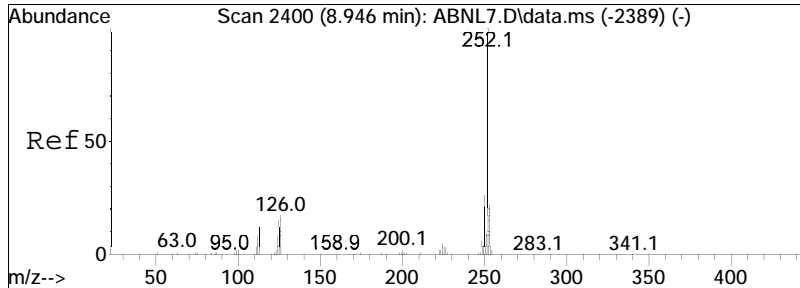




#111
 Benzo(k)fluoranthene
 Concen: 55.05 ug/ml
 RT: 8.931 min Scan# 2363
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

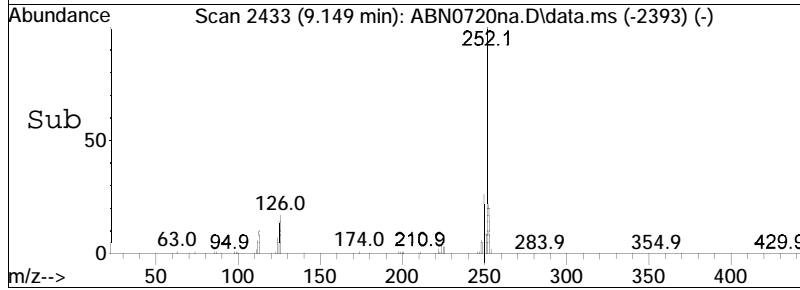
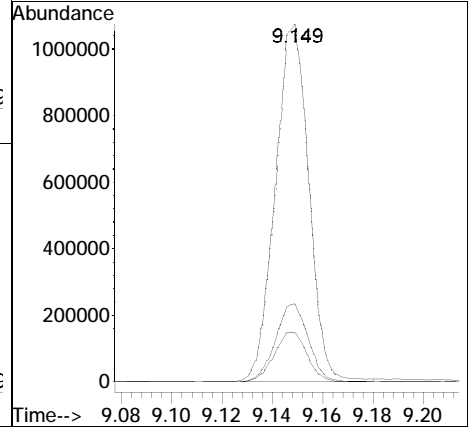
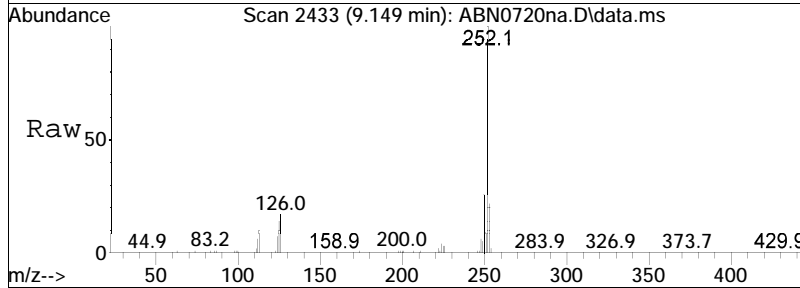
Tgt Ion	Resp	Lower	Upper
252	1123041		
125	12.3	11.4	17.0
253	21.4	17.2	25.8

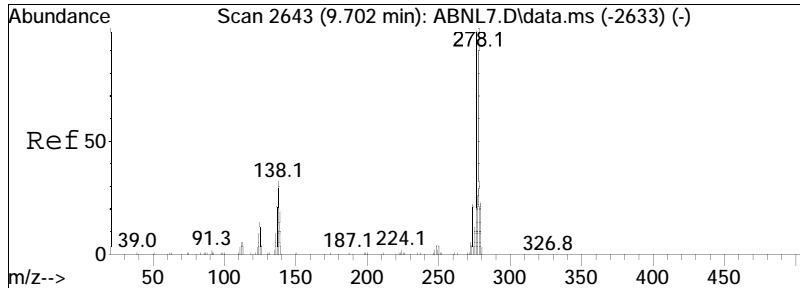




#112
 Benzo(a)pyrene
 Concen: 55.08 ug/ml
 RT: 9.149 min Scan# 2433
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

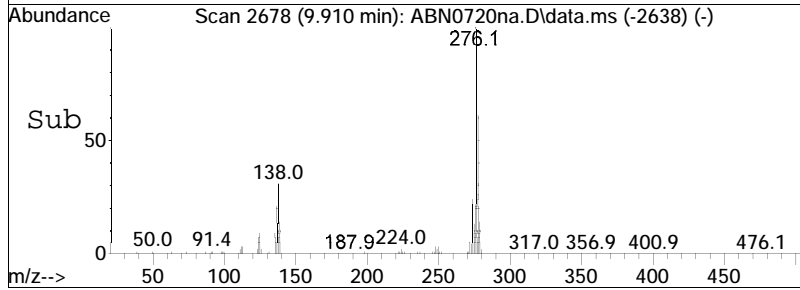
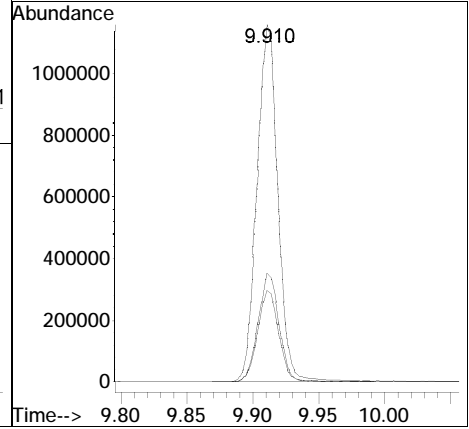
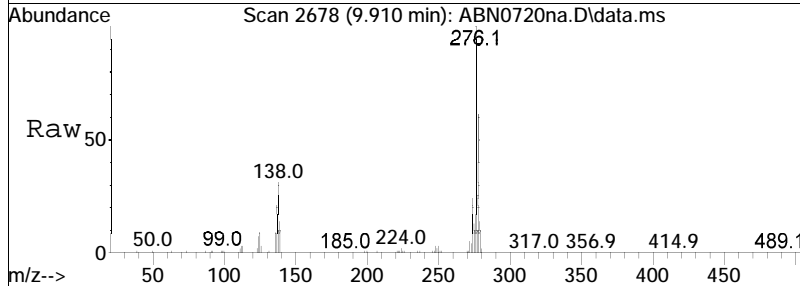
Tgt Ion	Ratio	Lower	Upper
252	100		
125	13.8	12.6	18.8
253	21.6	16.9	25.3

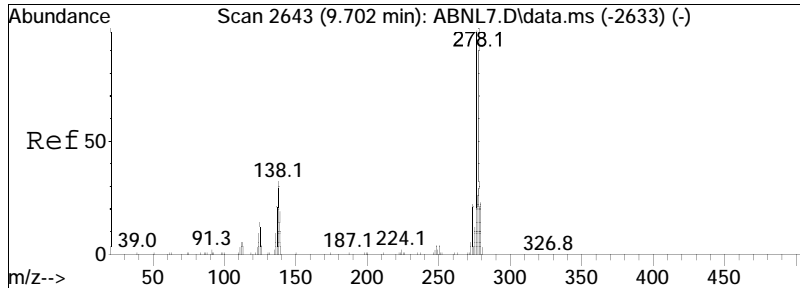




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 54.23 ug/mL
 RT: 9.910 min Scan# 2678
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

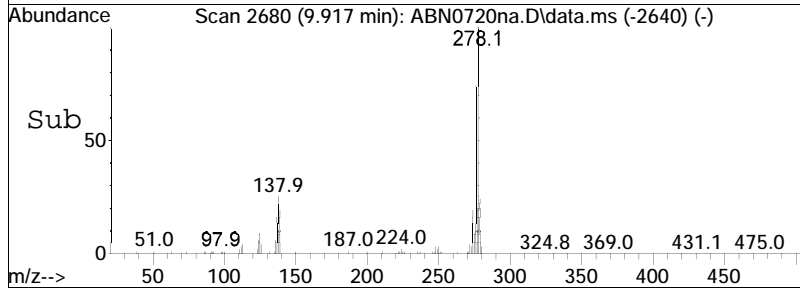
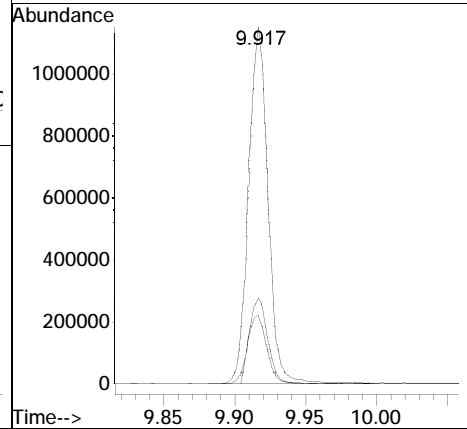
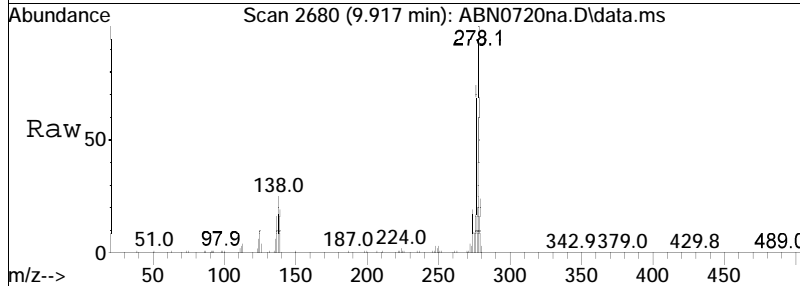
Tgt Ion	Resp	Lower	Upper
276	100		
138	30.7	21.4	32.0
277	26.0	19.2	28.8

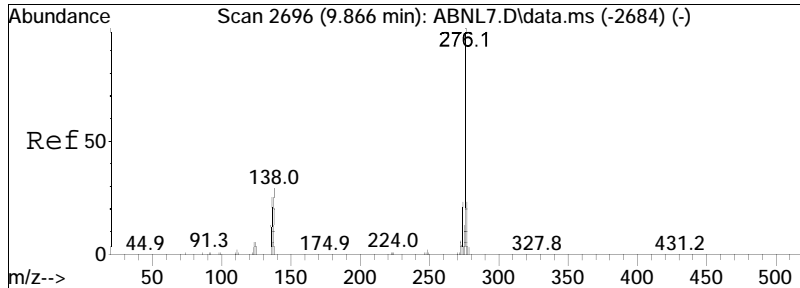




#115
 Dibenzo(a,h)anthracene
 Concen: 52.44 ug/ml
 RT: 9.917 min Scan# 2680
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

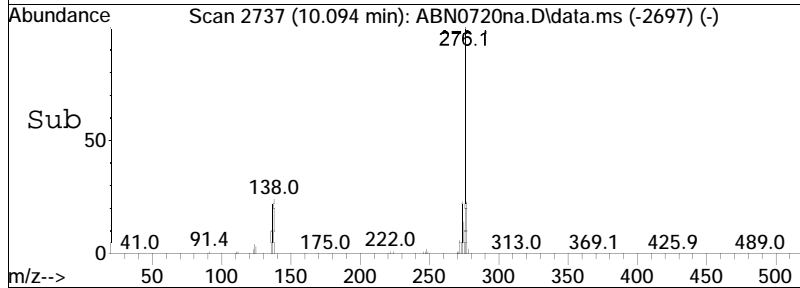
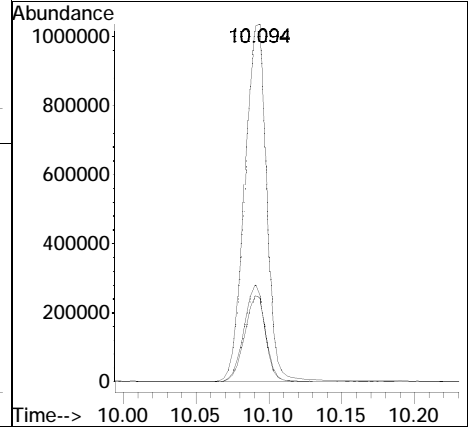
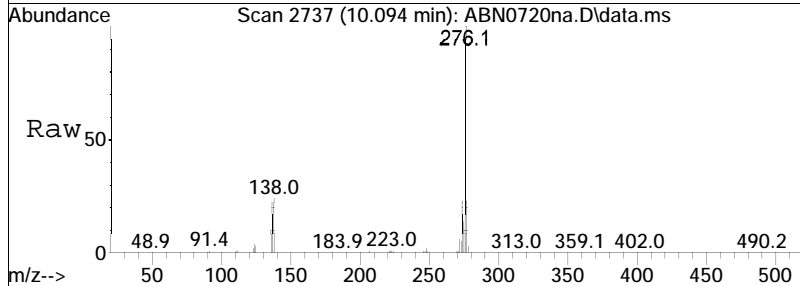
Tgt Ion	Resp	Lower	Upper
278	1094235		
139	18.4	17.1	25.7
279	23.8	19.3	28.9





#116
 Benzo(ghi)perylene
 Concen: 51.79 ug/ml
 RT: 10.094 min Scan# 2737
 Delta R.T. 0.000 min
 Lab File: ABN0720na.D
 Acq: 20 Jul 2023 6:48 pm

Tgt Ion	Resp	Lower	Upper
276	1066871		
276	100		
138	25.9	26.7	40.1#
277	23.8	19.4	29.2



Manual Integration Report

Data Path : I:\8270\SV124\230720na\ QMethod : FS230526SV124.m
Data File : ABN0720na.D Operator : SV124:cmm
Date Inj'd : 7/20/2023 6:48 pm Instrument : SV124
Sample : WG1805740-3,32,,ABN 10133 Quant Date : 7/20/2023 7:43 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\230720na\
 Data File : AP90720na.D
 Acq On : 20 Jul 2023 7:05 pm
 Operator : SV124:cmm
 Sample : WG1805740-4,32,,AP9 10068 gmr0711B
 Misc : WG1805740,,ical20053
 ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jul 20 19:44:05 2023
 Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jul 20 19:42:48 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27 I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	158	0.00
28 T	Benzaldehyde	0.783	0.856	-9.3	162	0.00
29 T	Acetophenone	* 50.000	55.523	-11.0	175	0.00
30 T	m-Toluidine	1.501	1.706	-13.7	160	0.00
31 T	2-Chloroaniline	1.593	1.836	-15.3	172	0.00
55 I	IS2_Naphthalene-d8	1.000	1.000	0.0	161	0.00
56 T	a-Terpineol	0.292	0.386	-32.2#	202#	0.00
57 T	3-Chloroaniline	0.129	0.146	-13.2	169	0.00
58 T	2,6-Dichlorophenol	0.261	0.297	-13.8	175	0.00
59 T	1-chloro-2-nitrobenzene	0.134	0.146	-9.0	168	0.00
60 T	Caprolactam	* 50.000	68.479	-37.0#	240	0.00
61 T	1,2,4,5-Tetrachlorobenzene	0.361	0.335	7.2	150	0.00
62 T	Biphenyl	0.822	0.854	-3.9	163	0.00
83 I	IS2_Acenaphthene-d10	1.000	1.000	0.0	155	0.00
84 T	Dichloran	* 50.000	55.685	-11.4	196	0.00
85 T	Pentachloronitrobenzene	0.198	0.211	-6.6	158	0.00
98 I	IS2_Phenanthrene-d10	1.000	1.000	0.0	146	0.00
99 T	Diphenamid	* 50.000	61.884	-23.8#	175	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
 Data File : AP90720na.D
 Acq On : 20 Jul 2023 7:05 pm
 Operator : SV124:cmm
 Sample : WG1805740-4,32,,AP9 10068 gmr0711B
 Misc : WG1805740,,ical20053
 ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jul 20 19:44:05 2023
 Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jul 20 19:42:48 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.355	152	191385	40.000	ug/ml	0.00
55) IS2_Naphthalene-d8	4.136	136	808729	40.000	ug/ml	0.00
83) IS2_Acenaphthene-d10	5.258	164	439260	40.000	ug/ml	0.00
98) IS2_Phenanthrene-d10	6.221	188	933606	40.000	ug/ml	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.101	105	204785	54.679	ug/ml	93
29) Acetophenone	3.595	105	482649	55.523	ug/ml#	88
30) m-Toluidine	3.641	106	408244	56.843	ug/ml	96
31) 2-Chloroaniline	3.871	127	439191	57.608	ug/ml#	95
56) a-Terpineol	4.154	59	390235	66.059	ug/ml	86
57) 3-Chloroaniline	4.170	65	147851	56.498	ug/ml#	63
58) 2,6-Dichlorophenol	4.188	162	300204	56.957	ug/ml	95
59) 1-chloro-2-nitrobenzene	4.356	111	147575	54.612	ug/ml	92
60) Caprolactam	4.387	55	230930	68.479	ug/ml#	79
61) 1,2,4,5-Tetrachloroben...	4.698	216	338935	46.459	ug/ml	99
62) Biphenyl	4.885	154	862918	51.912	ug/ml	98
84) Dichloran	6.013	206	118139	55.685	ug/ml	84
85) Pentachloronitrobenzene	6.112	237	115647	53.226	ug/ml#	87
99) Diphenamid	6.812	167	686009	61.884	ug/ml	91

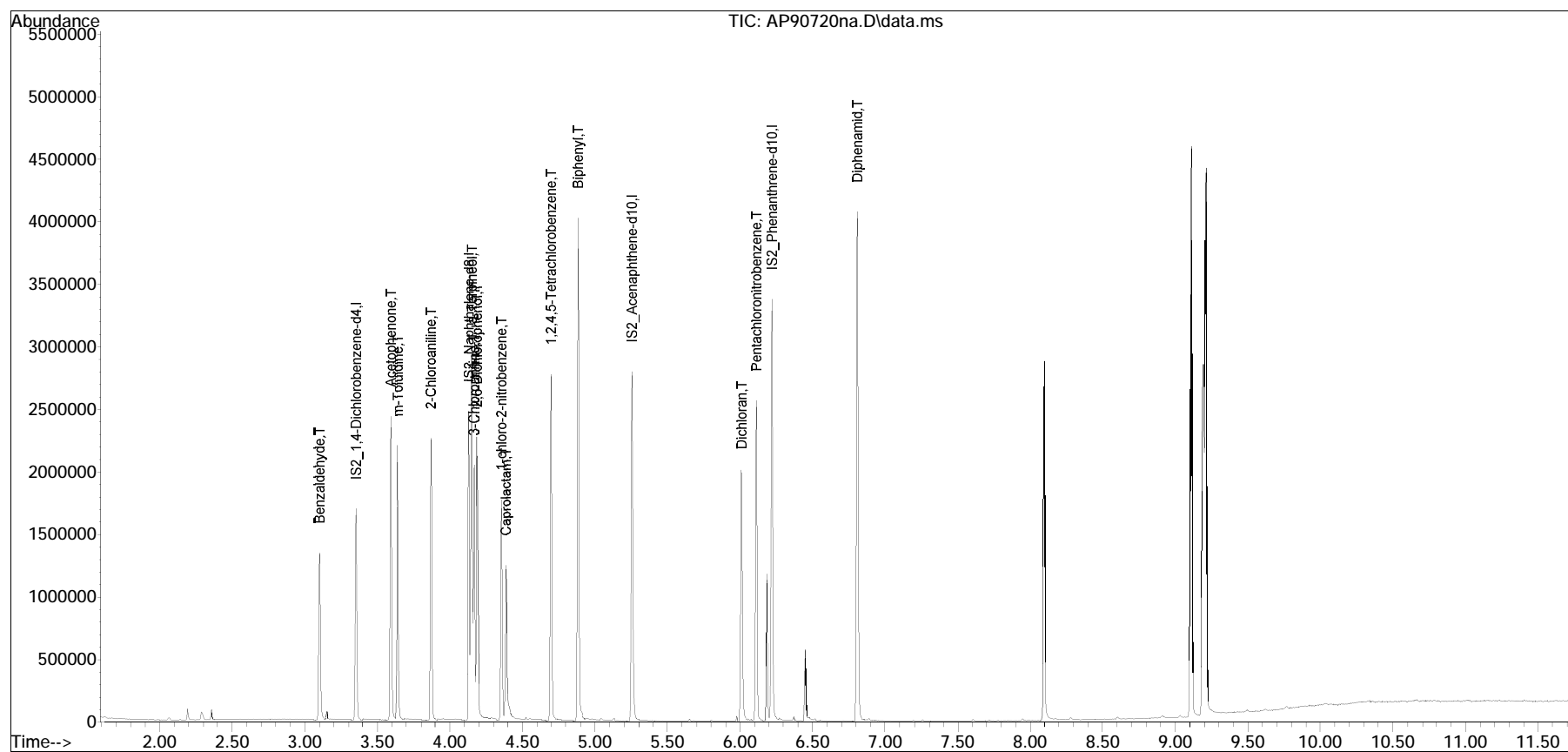
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

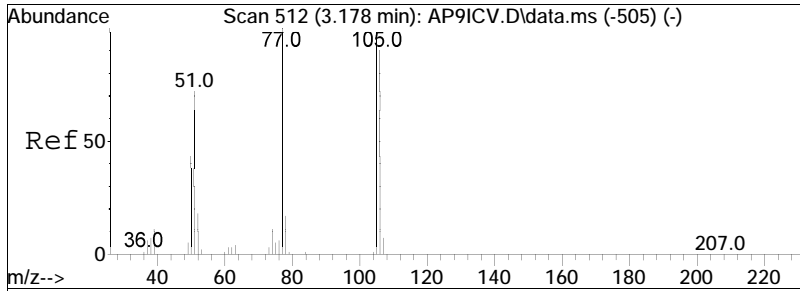
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
Data File : AP90720na.D
Acq On : 20 Jul 2023 7:05 pm
Operator : SV124:cmm
Sample : WG1805740-4,32,,AP9 10068 gmr0711B
Misc : WG1805740,,ical20053
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jul 20 19:44:05 2023
Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jul 20 19:42:48 2023
Response via : Initial Calibration

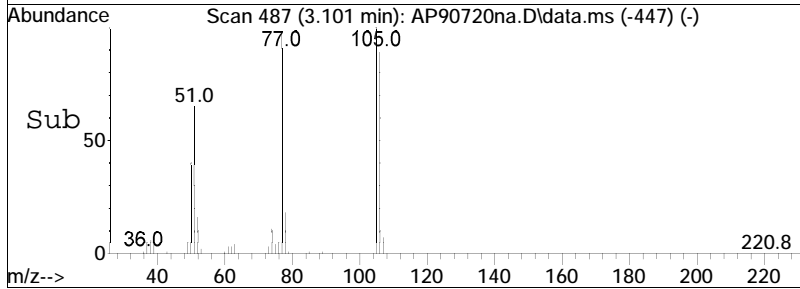
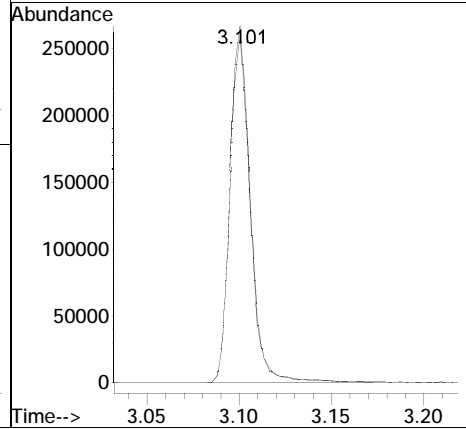
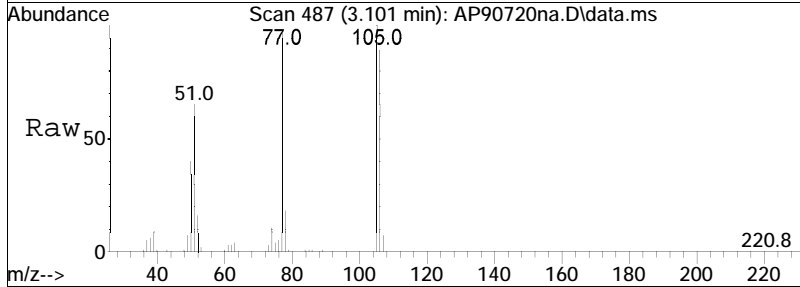
Sub List : AP9ical - AP9 ical sublist

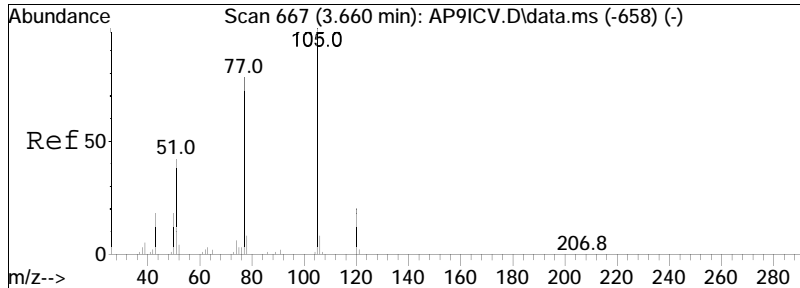




#28
 Benzaldehyde
 Concen: 54.68 ug/ml
 RT: 3.101 min Scan# 487
 Delta R.T. 0.000 min
 Lab File: AP90720na.D
 Acq: 20 Jul 2023 7:05 pm

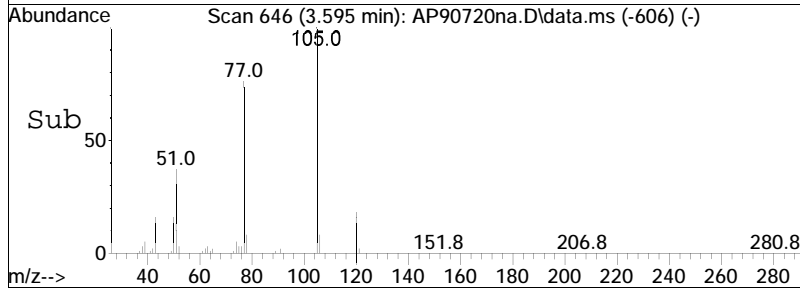
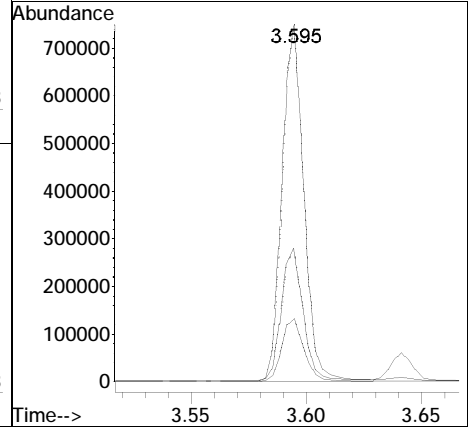
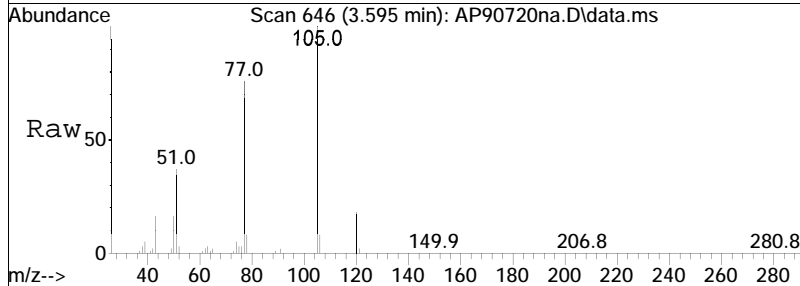
Tgt Ion: 105 Resp: 204785
 Ion Ratio Lower Upper
 105 100
 77 96.2 72.0 108.0

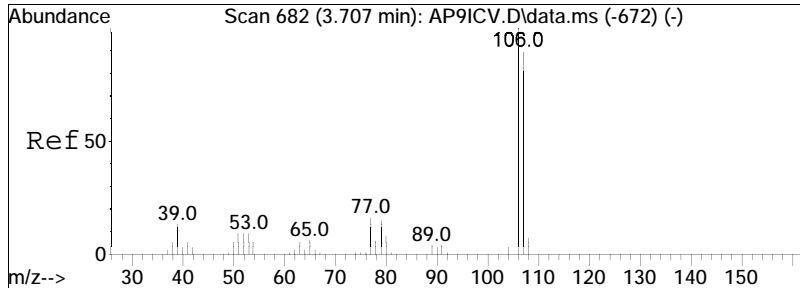




#29
 Acetophenone
 Concen: 55.52 ug/ml
 RT: 3.595 min Scan# 646
 Delta R.T. 0.000 min
 Lab File: AP90720na.D
 Acq: 20 Jul 2023 7:05 pm

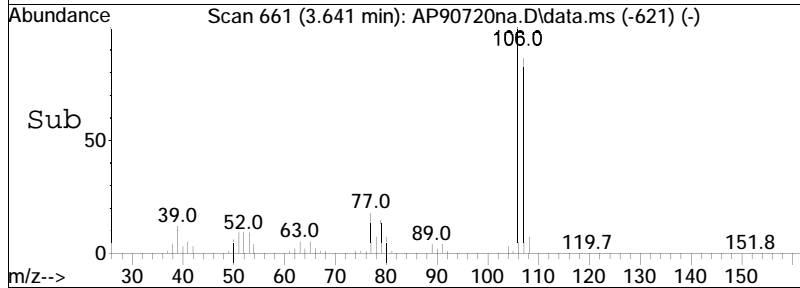
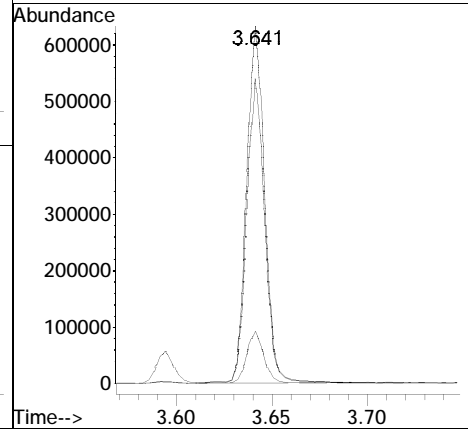
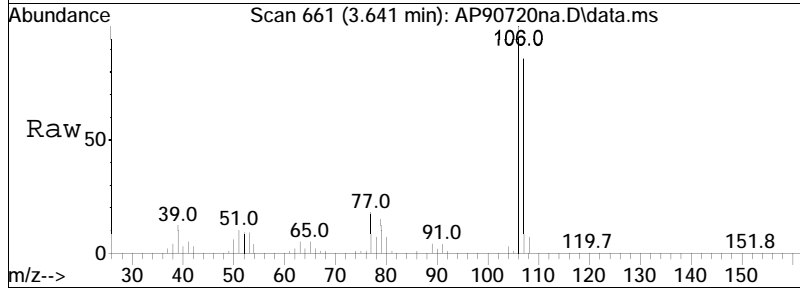
Tgt Ion	Ratio	Lower	Upper
105	100		
120	18.4	18.0	27.0
51	37.7	23.8	35.6#

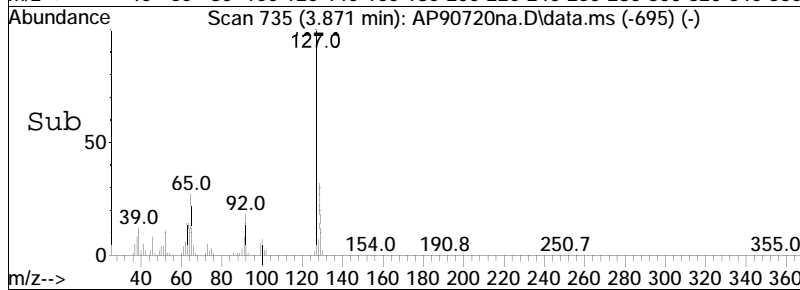
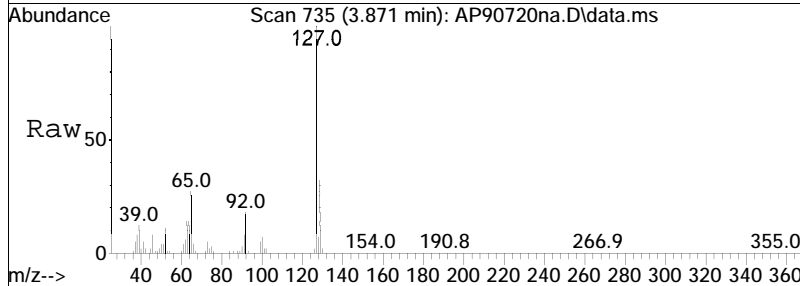
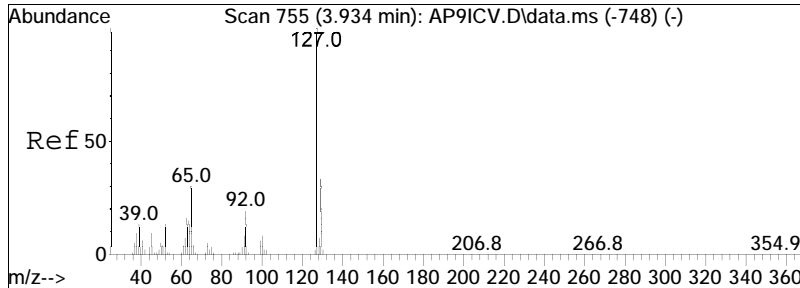




#30
 m-Toluidine
 Concen: 56.84 ug/ml
 RT: 3.641 min Scan# 661
 Delta R.T. 0.000 min
 Lab File: AP90720na.D
 Acq: 20 Jul 2023 7:05 pm

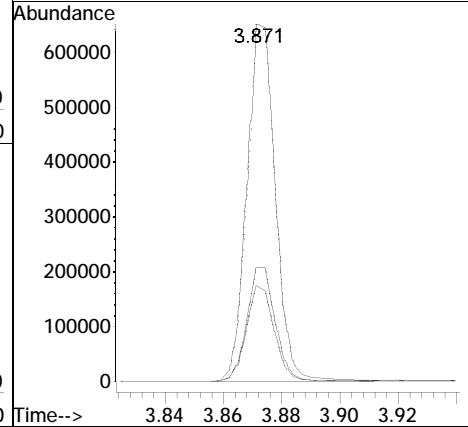
Tgt Ion	Ratio	Lower	Upper
106	100		
107	85.5	71.1	106.7
79	14.3	10.5	15.7

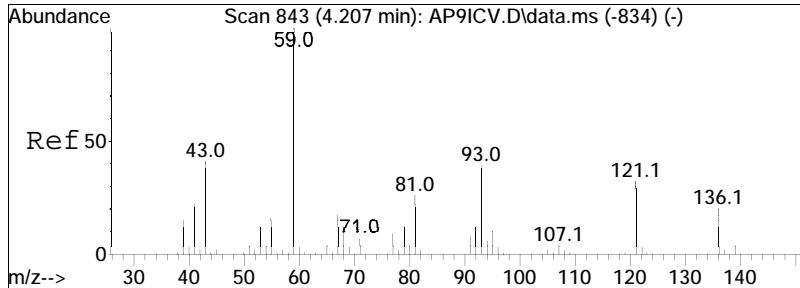




#31
 2-Chloroaniline
 Concen: 57.61 ug/ml
 RT: 3.871 min Scan# 735
 Delta R.T. 0.000 min
 Lab File: AP90720na.D
 Acq: 20 Jul 2023 7:05 pm

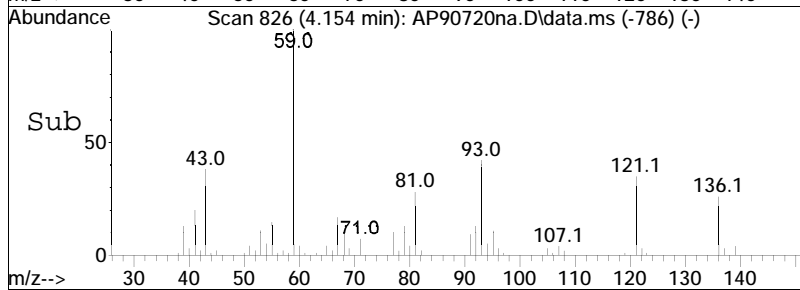
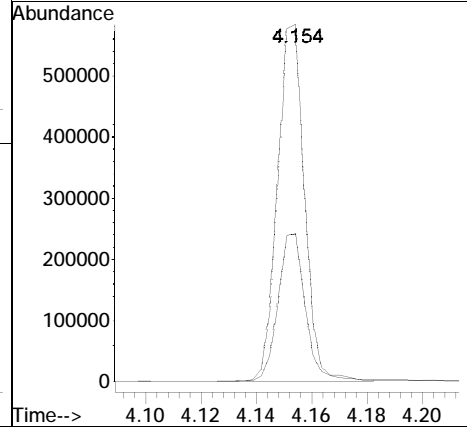
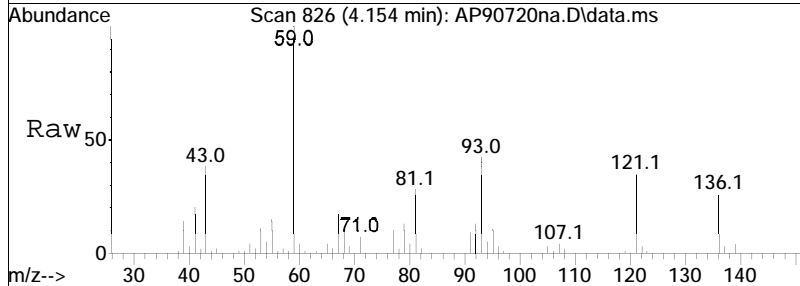
Tgt Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.9	38.9
65	26.8	17.1	25.7#

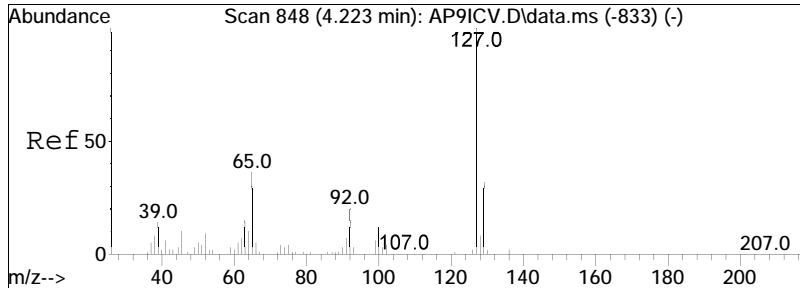




#56
 a-Terpineol
 Concen: 66.06 ug/ml
 RT: 4.154 min Scan# 826
 Delta R.T. 0.000 min
 Lab File: AP90720na.D
 Acq: 20 Jul 2023 7:05 pm

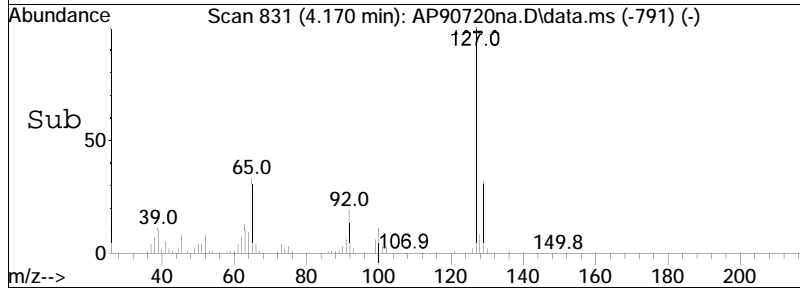
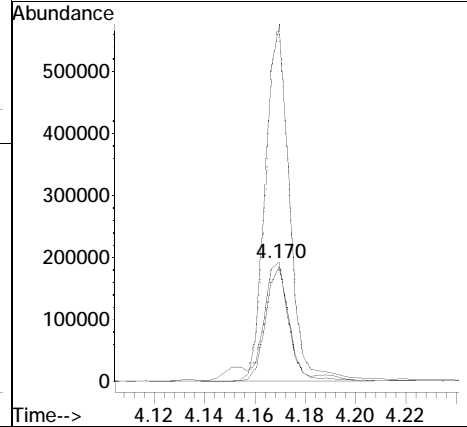
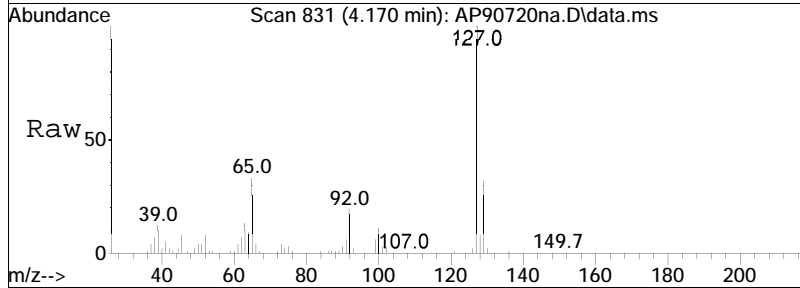
Tgt Ion	Resp	Lower	Upper
59	100		
93	42.7	42.2	63.4

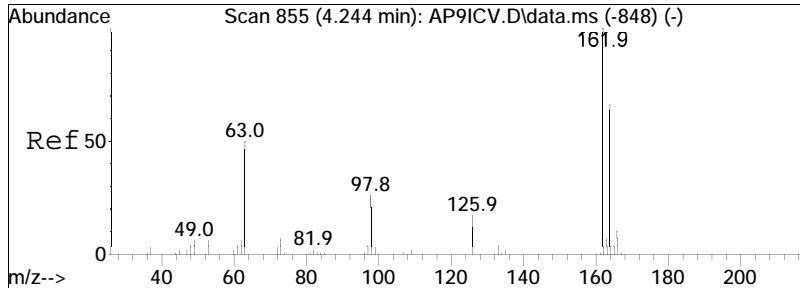




#57
 3-Chloroaniline
 Concen: 56.50 ug/ml
 RT: 4.170 min Scan# 831
 Delta R.T. 0.000 min
 Lab File: AP90720na.D
 Acq: 20 Jul 2023 7:05 pm

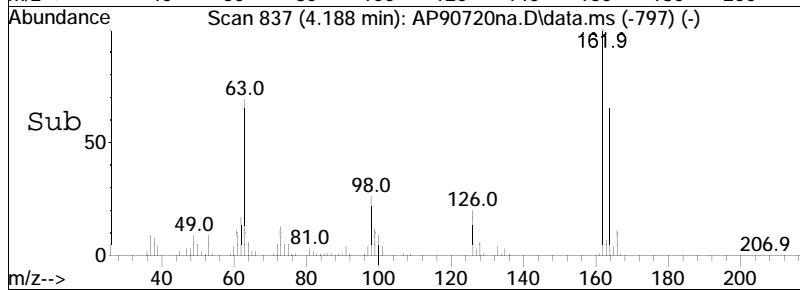
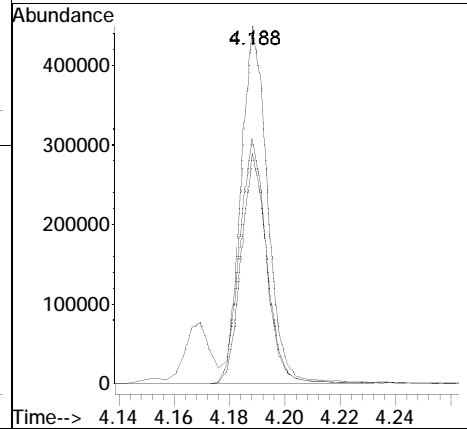
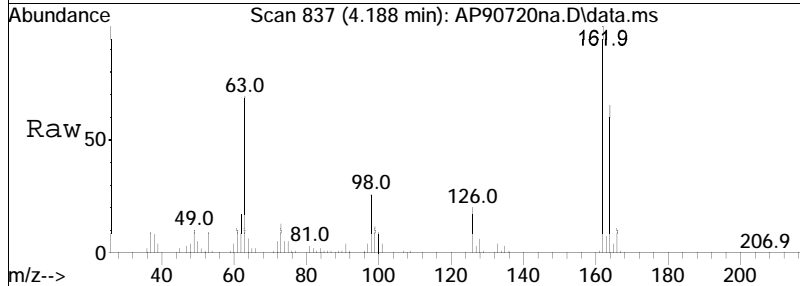
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
65	100		
127	259.0	278.4	417.6#
129	84.0	88.9	133.3#

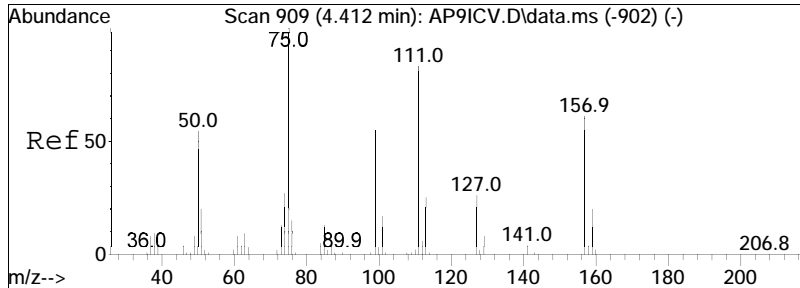




#58
 2,6-Dichlorophenol
 Concen: 56.96 ug/ml
 RT: 4.188 min Scan# 837
 Delta R.T. 0.000 min
 Lab File: AP90720na.D
 Acq: 20 Jul 2023 7:05 pm

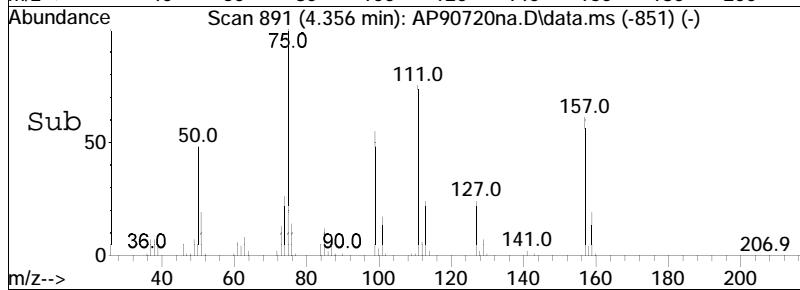
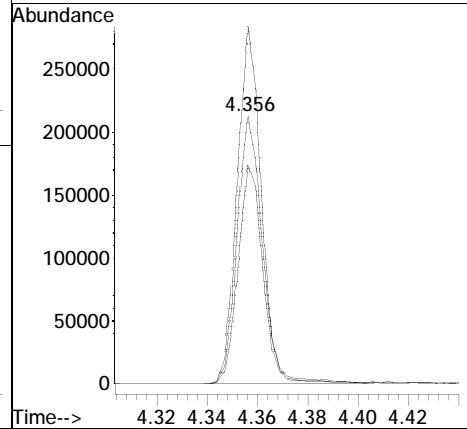
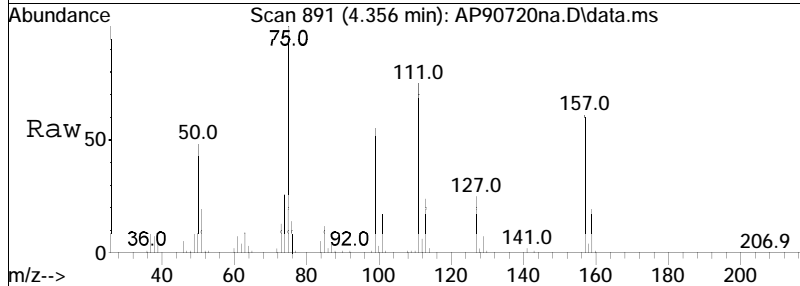
Tgt Ion	Resp	Lower	Upper
162	300204		
162	100		
164	63.6	50.8	76.2
63	67.6	47.4	71.0

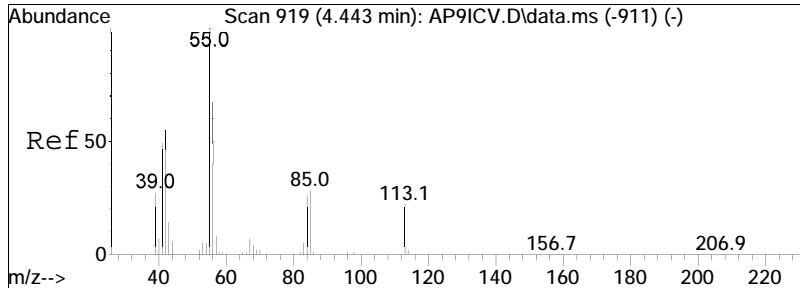




#59
 1-chloro-2-nitrobenzene
 Concen: 54.61 ug/ml
 RT: 4.356 min Scan# 891
 Delta R.T. 0.000 min
 Lab File: AP90720na.D
 Acq: 20 Jul 2023 7:05 pm

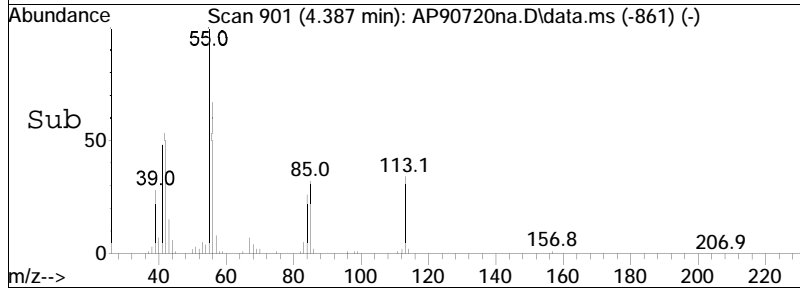
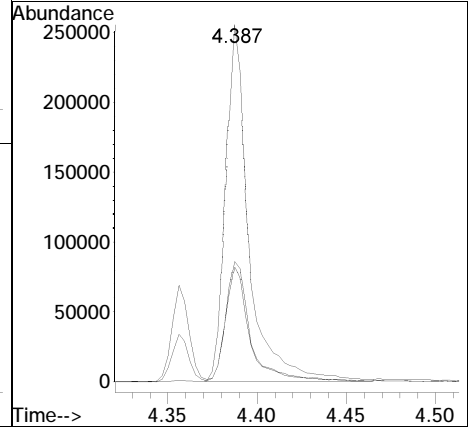
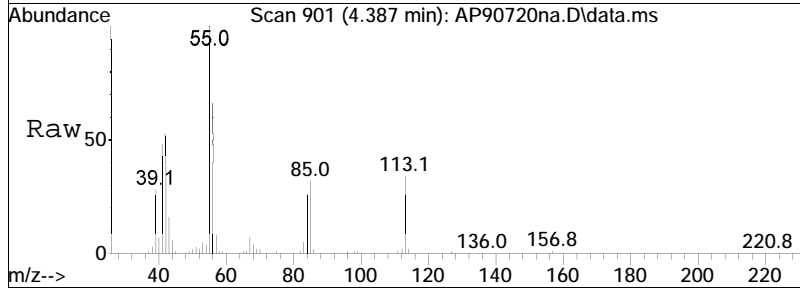
Tgt Ion	Resp	Lower	Upper
111	100		
157	80.2	62.6	94.0
75	128.8	93.0	139.6

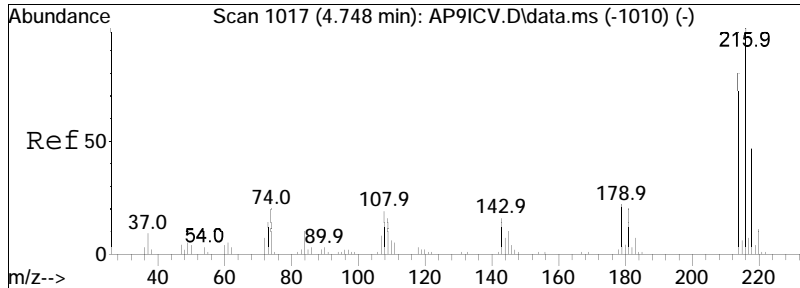




#60
 Caprolactam
 Concen: 68.48 ug/ml
 RT: 4.387 min Scan# 901
 Delta R.T. 0.000 min
 Lab File: AP90720na.D
 Acq: 20 Jul 2023 7:05 pm

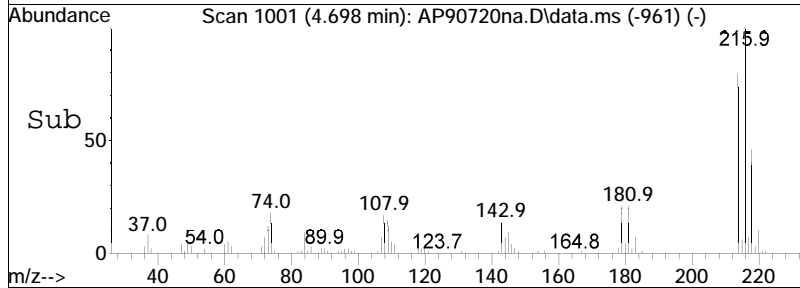
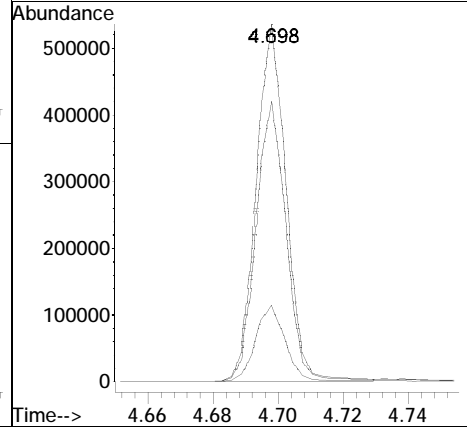
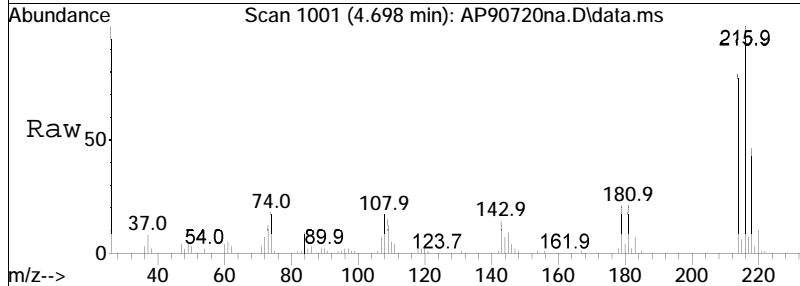
Tgt Ion	Resp	Lower	Upper
55	100		
85	33.5	32.6	48.8
113	35.6	44.6	66.8#

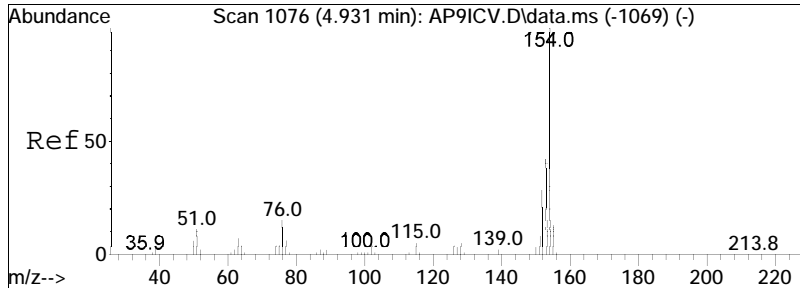




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 46.46 ug/ml
 RT: 4.698 min Scan# 1001
 Delta R.T. 0.000 min
 Lab File: AP90720na.D
 Acq: 20 Jul 2023 7:05 pm

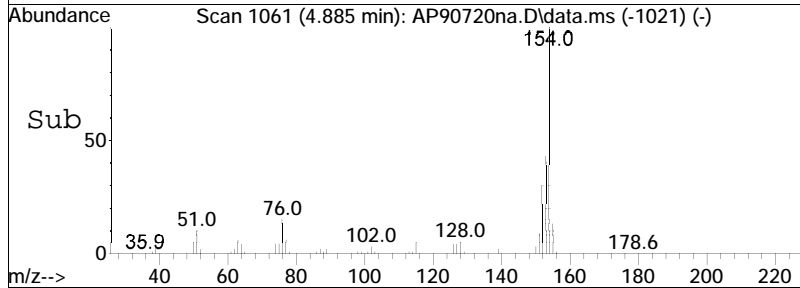
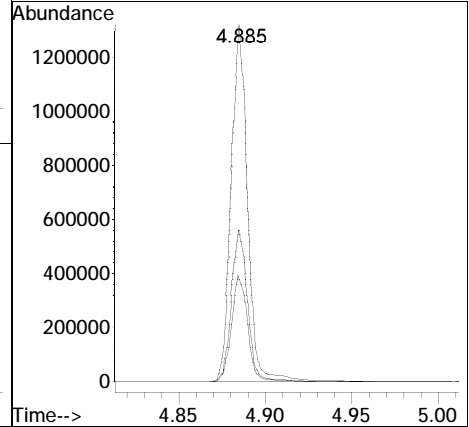
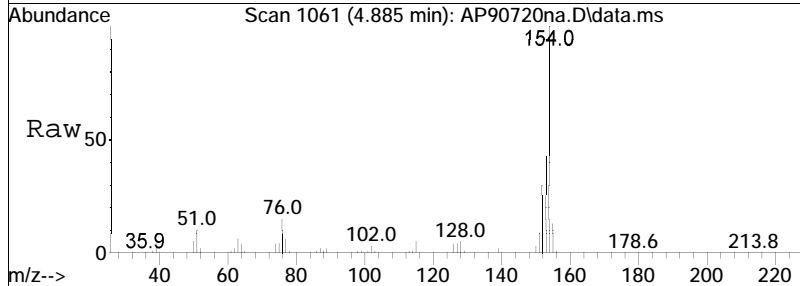
Tgt Ion	Ratio	Lower	Upper
216	100		
214	78.3	63.0	94.6
179	21.3	17.4	26.2

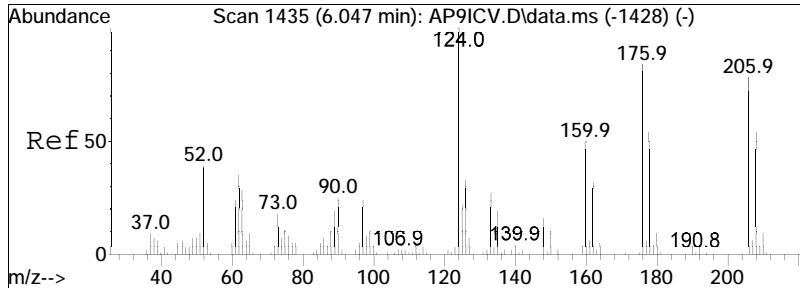




#62
 Biphenyl
 Concen: 51.91 ug/ml
 RT: 4.885 min Scan# 1061
 Delta R.T. 0.000 min
 Lab File: AP90720na.D
 Acq: 20 Jul 2023 7:05 pm

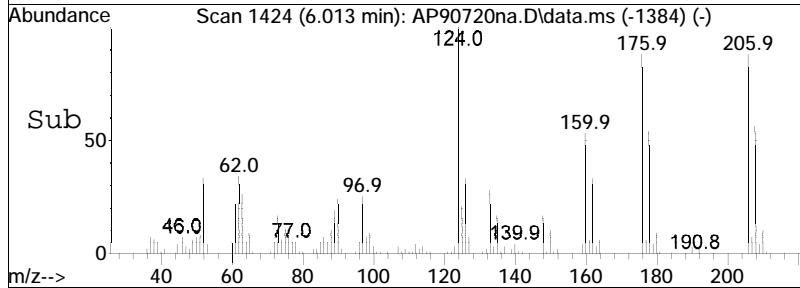
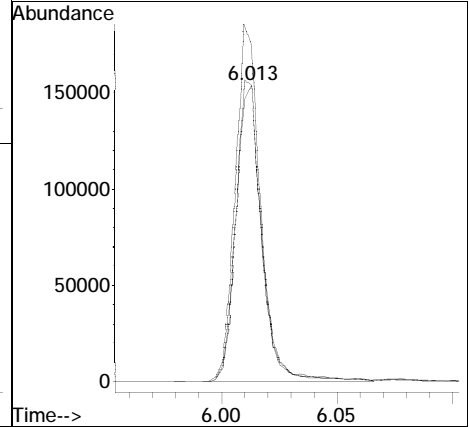
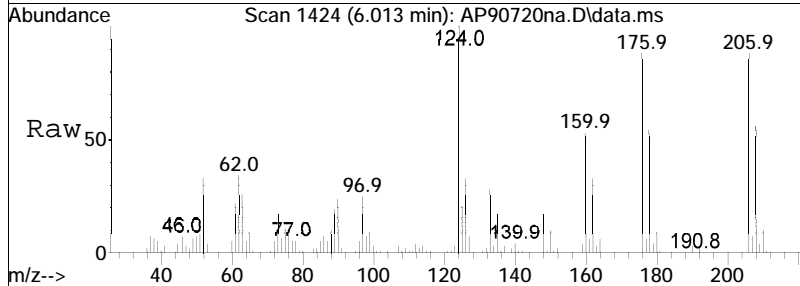
Tgt Ion	Ratio	Lower	Upper
154	100		
153	42.5	33.5	50.3
152	29.8	22.6	34.0

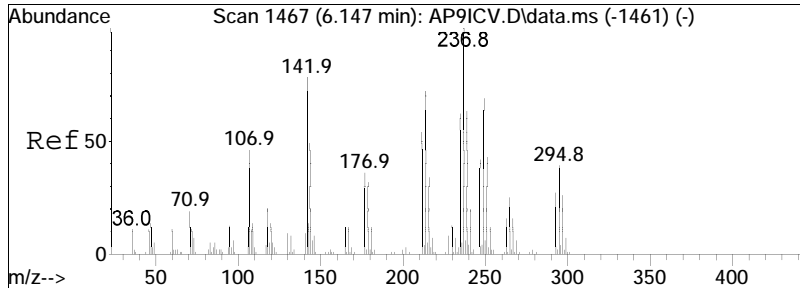




#84
 Dichloran
 Concen: 55.69 ug/ml
 RT: 6.013 min Scan# 1424
 Delta R.T. 0.000 min
 Lab File: AP90720na.D
 Acq: 20 Jul 2023 7:05 pm

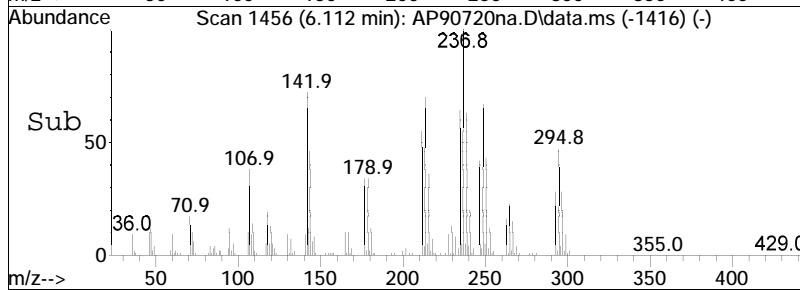
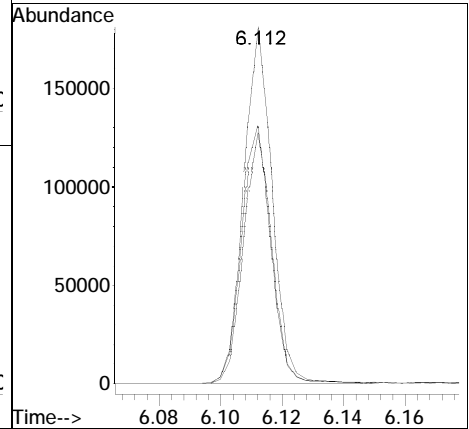
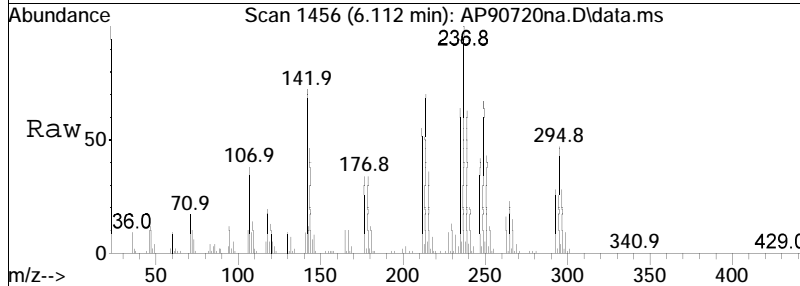
Tgt Ion	Resp	Lower	Upper
206	118139		
206	100		
176	101.6	72.3	108.5
124	119.7	114.0	171.0

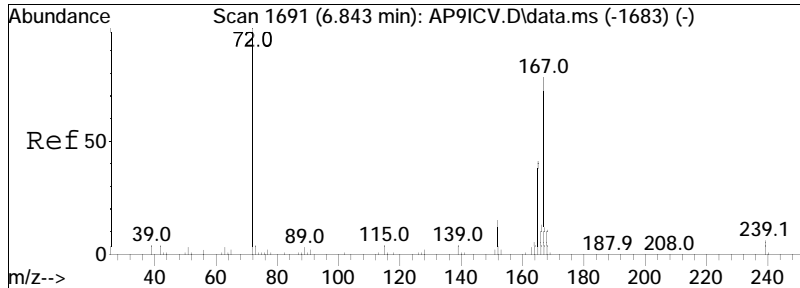




#85
 Pentachloronitrobenzene
 Concen: 53.23 ug/ml
 RT: 6.112 min Scan# 1456
 Delta R.T. 0.000 min
 Lab File: AP90720na.D
 Acq: 20 Jul 2023 7:05 pm

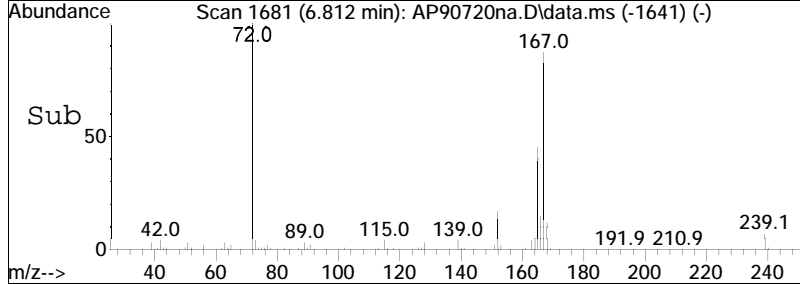
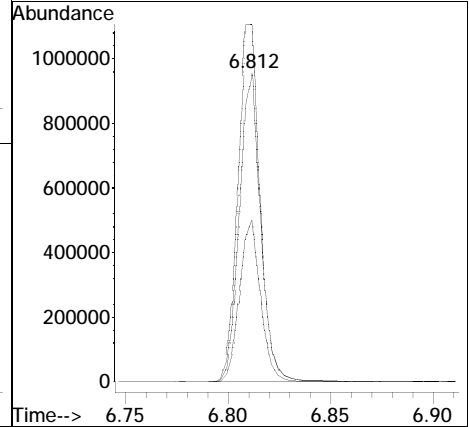
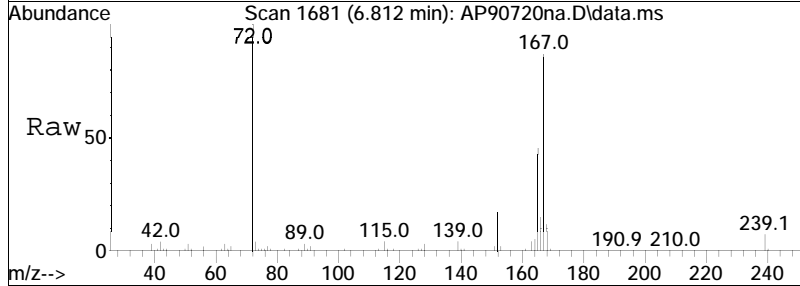
Tgt Ion	Resp	Lower	Upper
237	100		
142	74.6	75.2	112.8#
214	71.1	60.5	90.7





#99
 Diphenamid
 Concen: 61.88 ug/ml
 RT: 6.812 min Scan# 1681
 Delta R.T. 0.000 min
 Lab File: AP90720na.D
 Acq: 20 Jul 2023 7:05 pm

Tgt Ion	Resp	Lower	Upper
167	100		
72	121.1	105.4	158.2
165	52.3	36.2	54.4



Manual Integration Report

Data Path : I:\8270\SV124\230720na\ QMethod : FS230526SV124.m
Data File : AP90720na.D Operator : SV124:cmm
Date Inj'd : 7/20/2023 7:05 pm Instrument : SV124
Sample : WG1805740-4,32,,AP9 10068 Quant Date : 7/20/2023 7:43 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\230720na\
 Data File : ADP0720na.D
 Acq On : 20 Jul 2023 7:22 pm
 Operator : SV124:cmm
 Sample : WG1805740-5,32,,ADP 10057 gmr0711B
 Misc : WG1805740,,ical20053
 ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jul 20 19:43:43 2023
 Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jul 20 19:42:48 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32 I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.00
33 T	1,4-Dioxane	0.478	0.502	-5.0	131	0.00
34 T	n-Decane	* 50.000	68.051	-36.1#	163	0.00
86 I	IS3_Acenaphthene-d10	1.000	1.000	0.0	120	0.00
87 T	Atrazine	0.387	0.486	-25.6#	145	0.00
100 I	IS3_Phenanthrene-d10	1.000	1.000	0.0	110	0.00
101 T	n-Octadecane	0.445	0.740	-66.3#	174	0.00
102 T	Parathion	* 50.000	77.809	-55.6#	194	0.00
103 T	3,3'-Dimethylbenzidine	* 50.000	60.313	-20.6#	139	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
 Data File : ADP0720na.D
 Acq On : 20 Jul 2023 7:22 pm
 Operator : SV124:cmm
 Sample : WG1805740-5,32,,ADP 10057 gmr0711B
 Misc : WG1805740,,ical20053
 ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jul 20 19:43:43 2023
 Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jul 20 19:42:48 2023
 Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.355	152	137483	40.000	ug/ml	0.00
86) IS3_Acenaphthene-d10	5.261	164	320571	40.000	ug/ml	0.00
100) IS3_Phenanthrene-d10	6.221	188	672734	40.000	ug/ml	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.767	88	86215	52.458	ug/ml#	55
34) n-Decane	3.262	57	352677	68.051	ug/ml	92
87) Atrazine	6.038	200	194846	62.794	ug/ml	97
101) n-Octadecane	6.153	57	621903	83.043	ug/ml	92
102) Parathion	6.725	109	152010	77.809	ug/ml	96
103) 3,3'-Dimethylbenzidine	7.657	212	827981	60.313	ug/ml	99

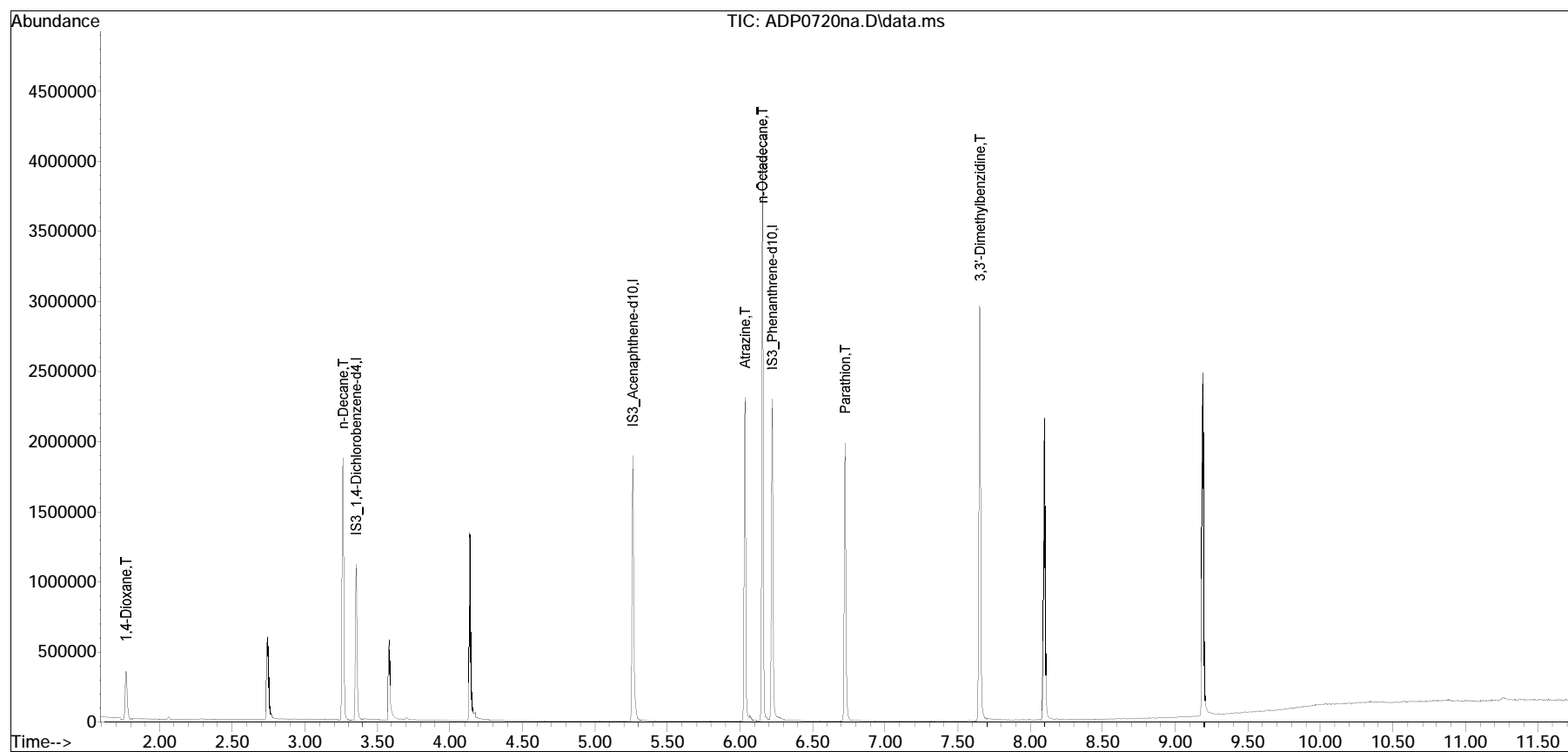
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

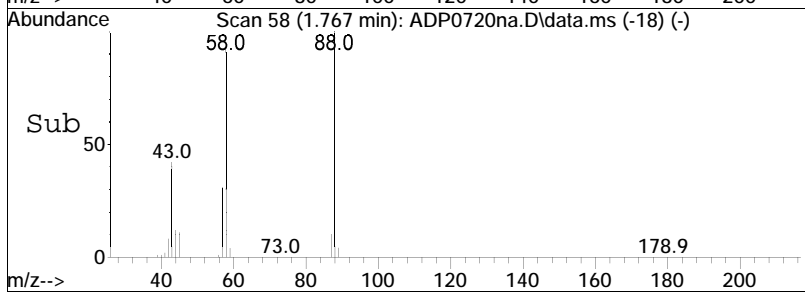
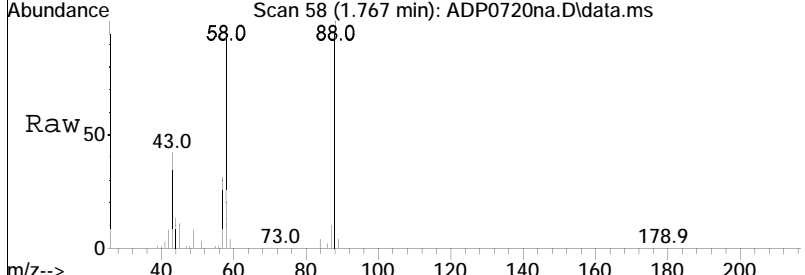
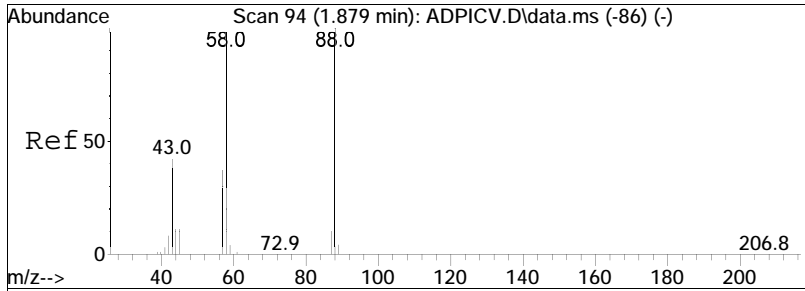
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230720na\
Data File : ADP0720na.D
Acq On : 20 Jul 2023 7:22 pm
Operator : SV124:cmm
Sample : WG1805740-5,32,,ADP 10057 gmr0711B
Misc : WG1805740,,ical20053
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jul 20 19:43:43 2023
Quant Method : I:\8270\sv124\230720na\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jul 20 19:42:48 2023
Response via : Initial Calibration

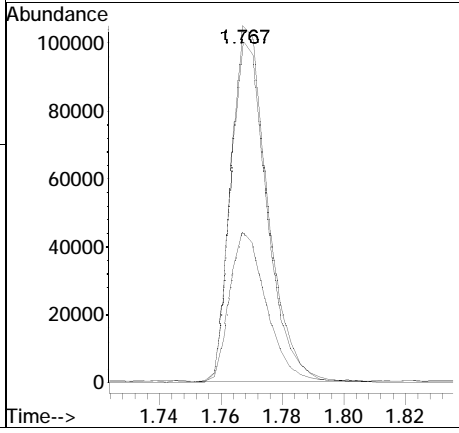
Sub List : ADPical_REV2 - ADP sublist

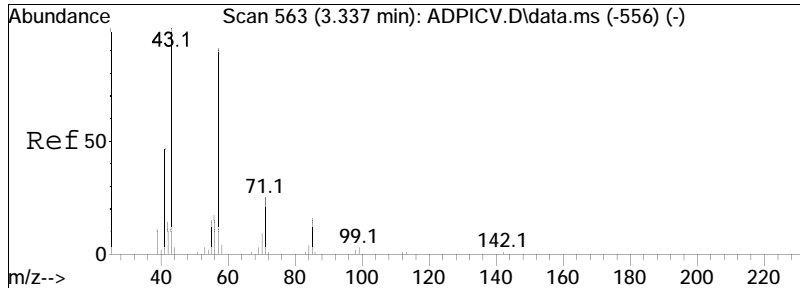




#33
 1,4-Dioxane
 Concen: 52.46 ug/ml
 RT: 1.767 min Scan# 58
 Delta R.T. 0.000 min
 Lab File: ADP0720na.D
 Acq: 20 Jul 2023 7:22 pm

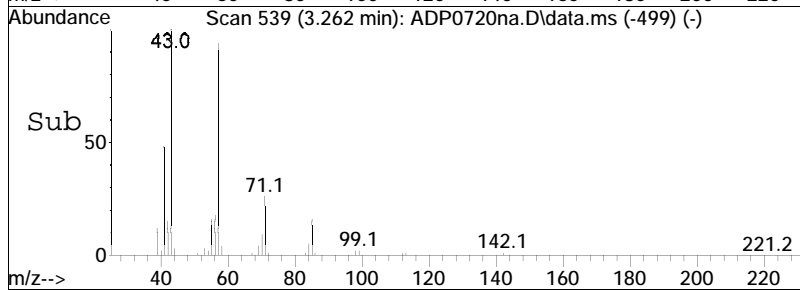
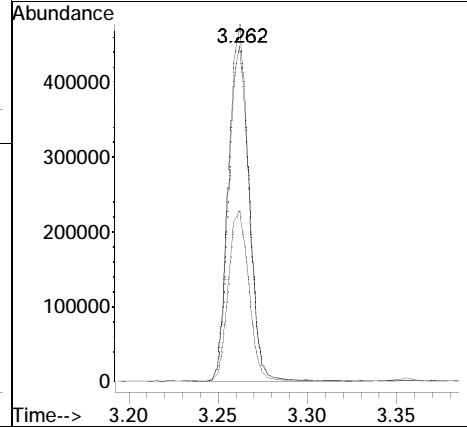
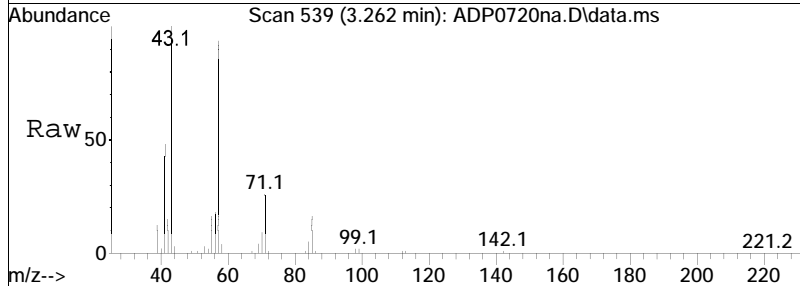
Tgt Ion	Resp	Lower	Upper
88	100		
58	95.0	44.8	67.2#
43	42.4	22.4	33.6#

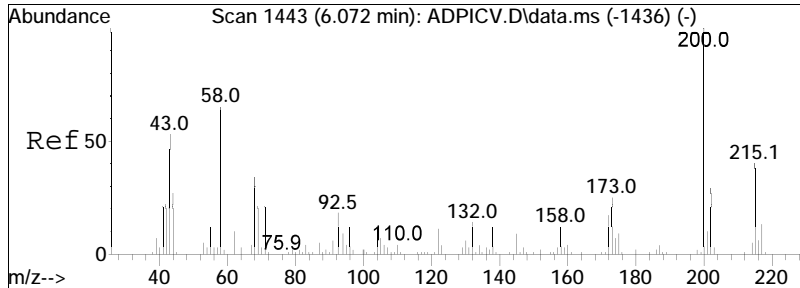




#34
 n-Decane
 Concen: 68.05 ug/ml
 RT: 3.262 min Scan# 539
 Delta R.T. 0.000 min
 Lab File: ADP0720na.D
 Acq: 20 Jul 2023 7:22 pm

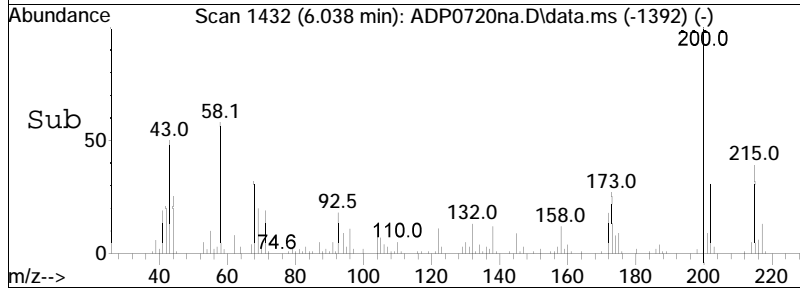
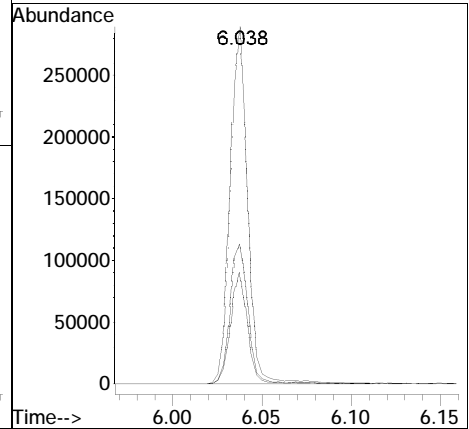
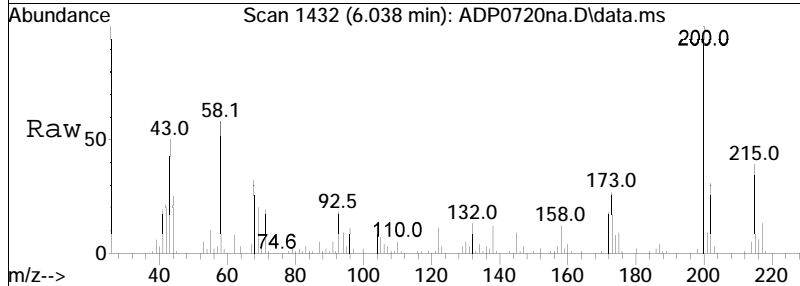
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
43	106.1	77.9	116.9
41	51.0	36.9	55.3

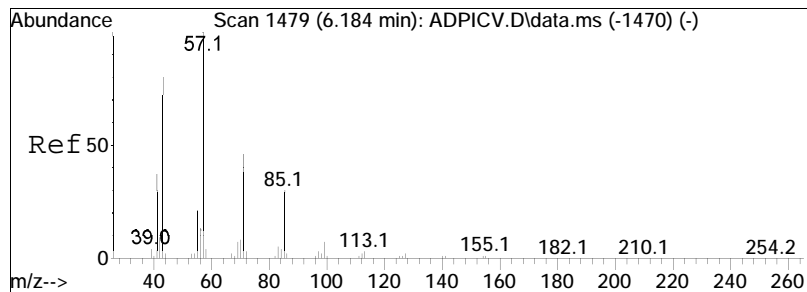




#87
 Atrazine
 Concen: 62.79 ug/ml
 RT: 6.038 min Scan# 1432
 Delta R.T. 0.000 min
 Lab File: ADP0720na.D
 Acq: 20 Jul 2023 7:22 pm

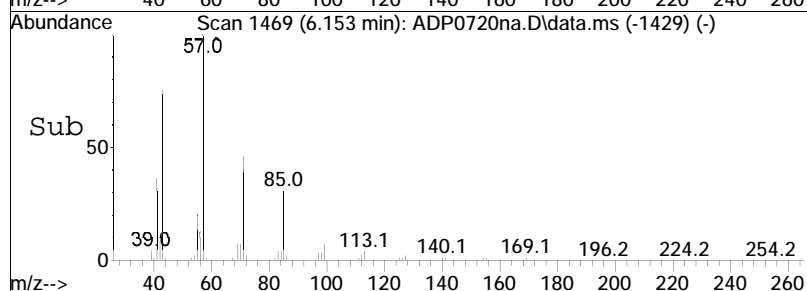
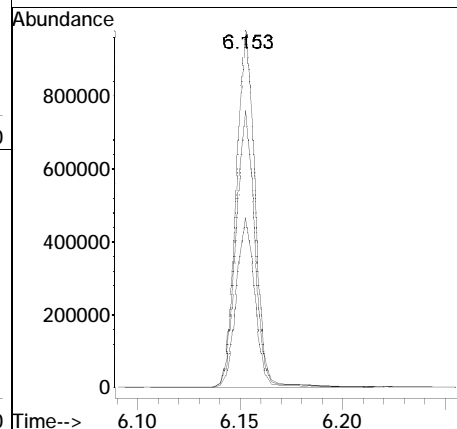
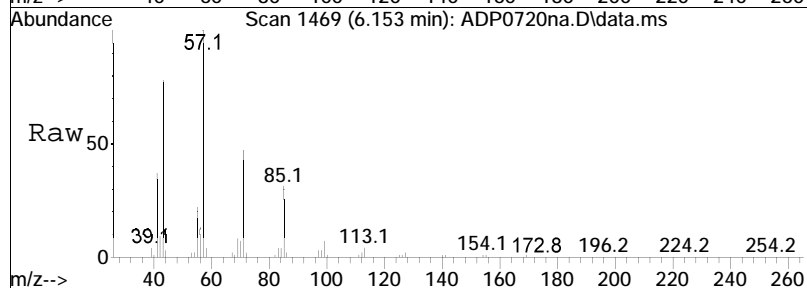
Tgt Ion	Ratio	Lower	Upper
200	100		
202	30.4	24.9	37.3
215	40.0	34.0	51.0

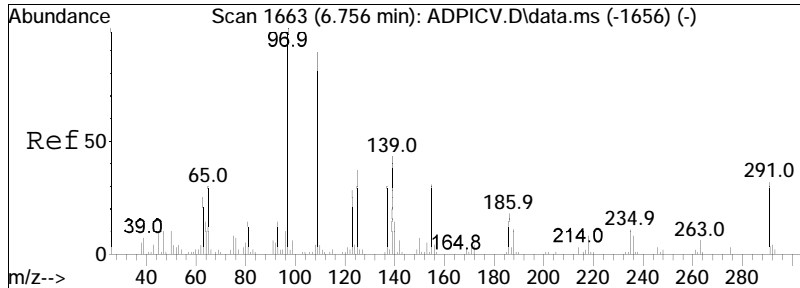




#101
 n-Octadecane
 Concen: 83.04 ug/ml
 RT: 6.153 min Scan# 1469
 Delta R.T. 0.000 min
 Lab File: ADP0720na.D
 Acq: 20 Jul 2023 7:22 pm

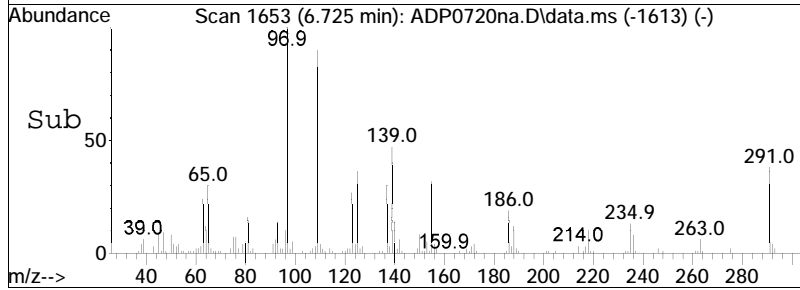
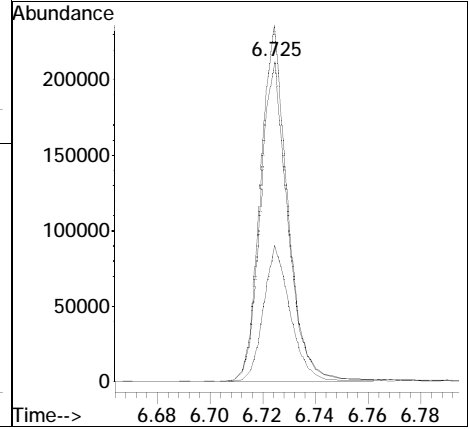
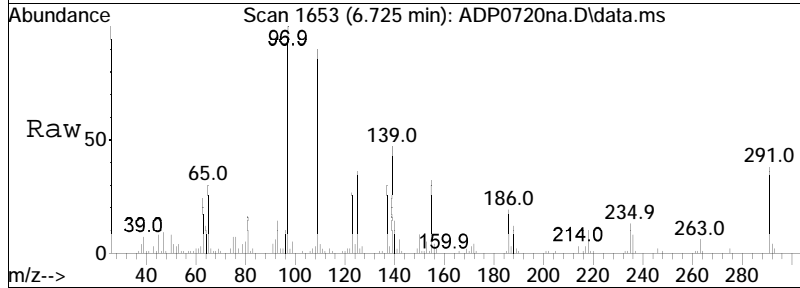
Tgt Ion	Resp	Lower	Upper
57	100		
43	76.5	56.7	85.1
71	47.4	42.8	64.2

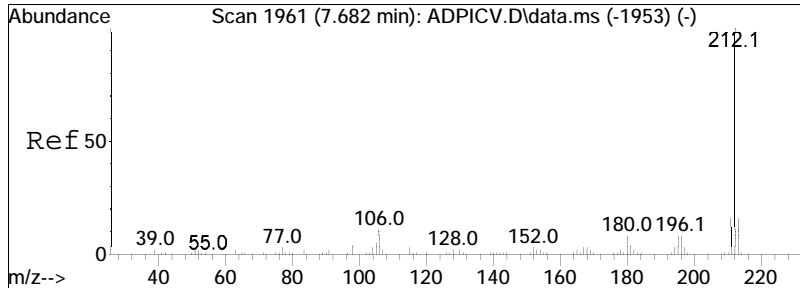




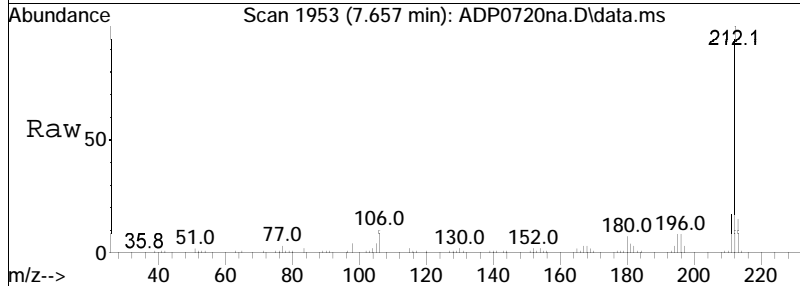
#102
 Parathion
 Concen: 77.81 ug/ml
 RT: 6.725 min Scan# 1653
 Delta R.T. 0.000 min
 Lab File: ADP0720na.D
 Acq: 20 Jul 2023 7:22 pm

Tgt Ion	Resp	Lower	Upper
109	152010		
109	100		
97	110.4	85.8	128.8
291	41.7	29.8	44.8

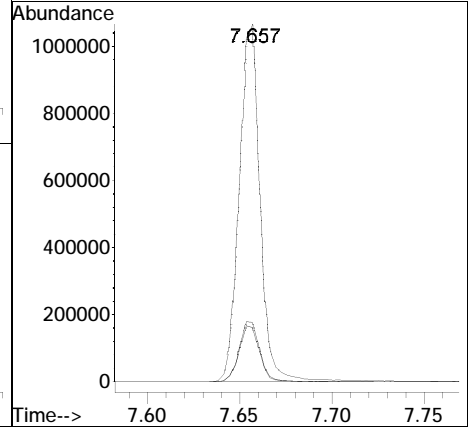
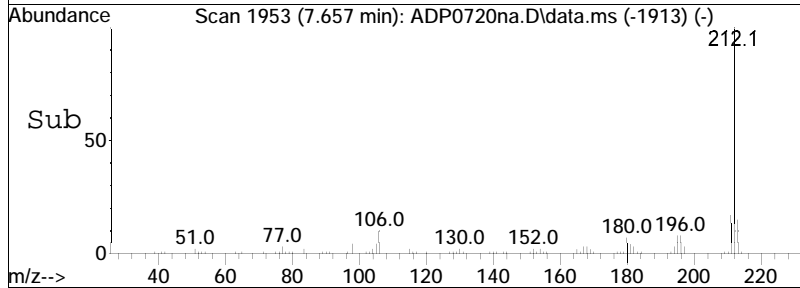




#103
 3,3'-Dimethylbenzidine
 Concen: 60.31 ug/ml
 RT: 7.657 min Scan# 1953
 Delta R.T. 0.000 min
 Lab File: ADP0720na.D
 Acq: 20 Jul 2023 7:22 pm



Tgt Ion	Ratio	Lower	Upper
212	100		
211	17.0	13.5	20.3
213	15.6	13.4	20.0



Manual Integration Report

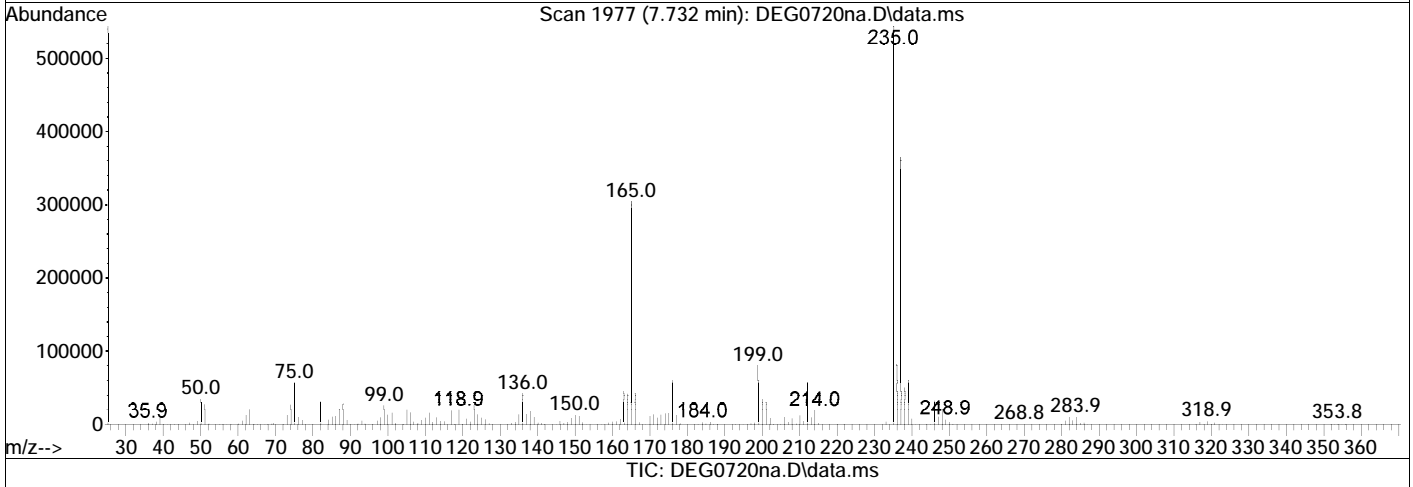
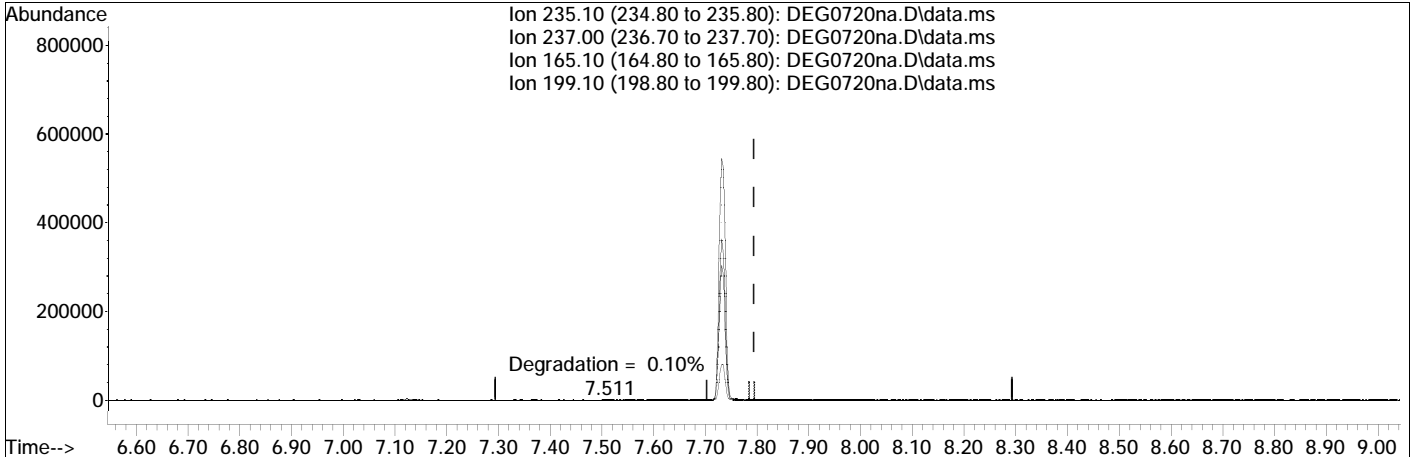
Data Path : I:\8270\SV124\230720na\ QMethod : FS230526SV124.m
Data File : ADP0720na.D Operator : SV124:cmm
Date Inj'd : 7/20/2023 7:22 pm Instrument : SV124
Sample : WG1805740-5,32,,ADP 10057 Quant Date : 7/20/2023 7:43 pm

There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV124\230720na\
 Data File : DEG0720na.D
 Acq On : 20 Jul 2023 6:32 pm
 Operator : SV124:cmm
 Sample : WG1805740-2,32,,SV124 Degdftpp
 Misc : WG1805740,,ical20053
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jul 20 18:50:41 2023
 Quant Method : I:\8270\SV124\230720na\DftppSV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jun 19 08:14:26 2023
 Response via : Initial Calibration



TIC: DEG0720na.D\data.ms

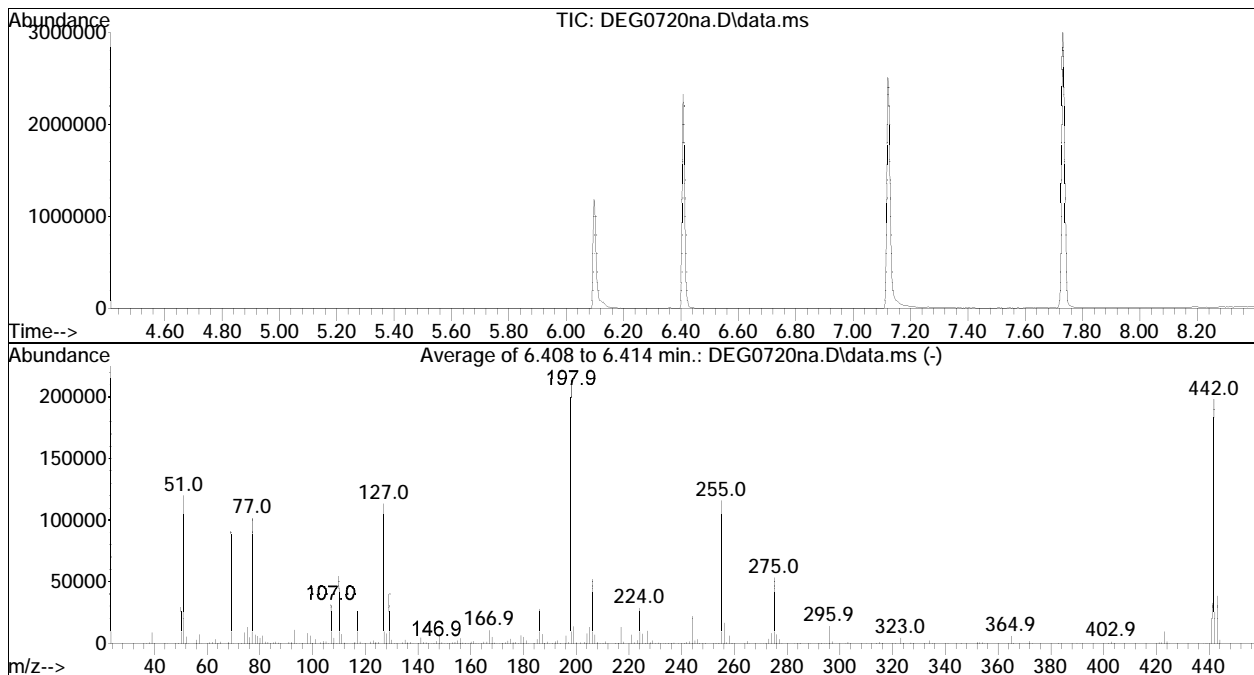
(6) DDT (T)		
7.732min (-0.063) 69.49		
response	423620	
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	61.50	64.01
165.10	52.60	53.22
199.10	15.00	14.89

DFTPP

Data Path : I:\8270\SV124\230720na\
 Data File : DEG0720na.D
 Acq On : 20 Jul 2023 6:32 pm
 Operator : SV124:cmm
 Sample : WG1805740-1,32,,SV124 Degdftpp
 Misc : WG1805740,,ical20053
 ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\sv124\230720na\FS230526SV124.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Fri Jul 21 04:27:51 2023



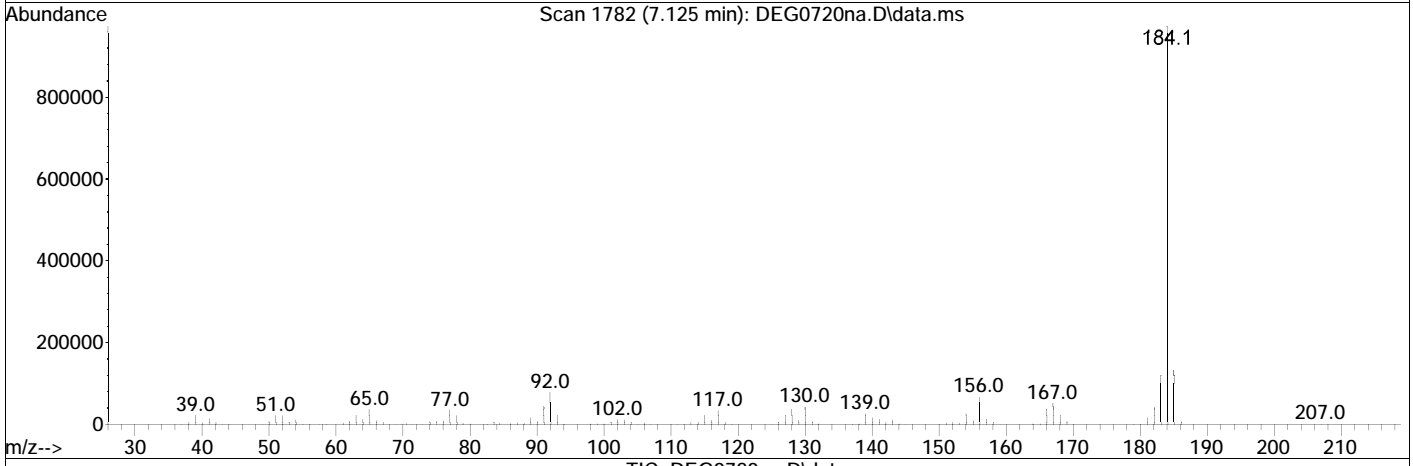
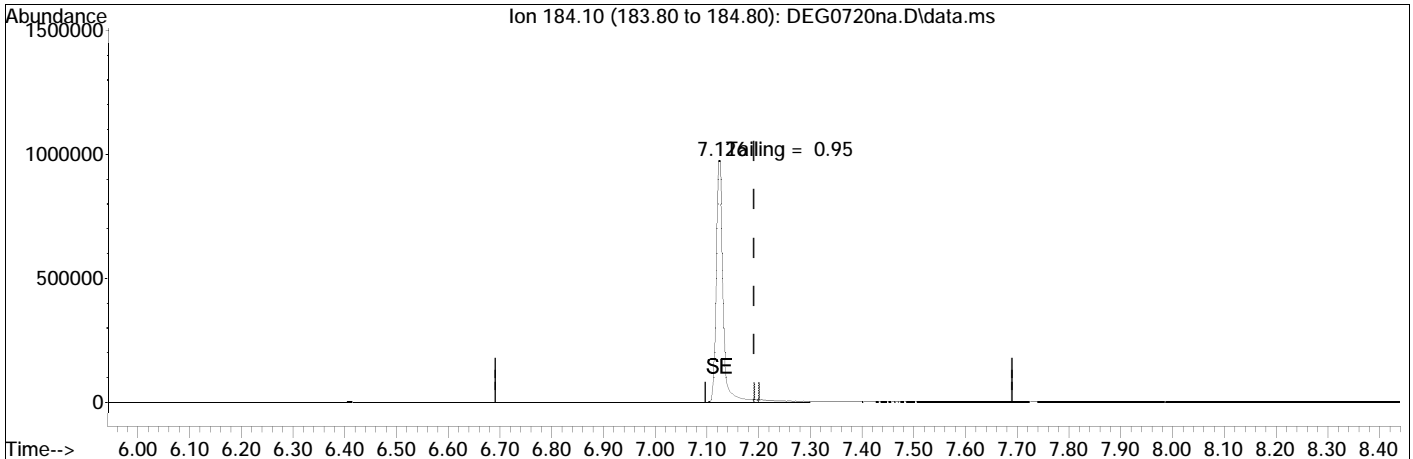
Spectrum Information: Average of 6.408 to 6.414 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	56.0	119880	PASS
68	69	0.00	2	1.7	1522	PASS
69	69	0.20	100	100.0	90931	PASS
70	69	0.00	2	0.5	422	PASS
127	198	10	80	53.0	113376	PASS
197	198	0.00	2	0.8	1629	PASS
198	198	100	100	100.0	214016	PASS
199	198	5	9	6.4	13717	PASS
275	198	10	60	24.8	53141	PASS
365	198	1	100	3.0	6335	PASS
441	442	0.01	24	16.6	32736	PASS
442	198	50	100	92.4	197653	PASS
443	442	15	24	19.4	38395	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV124\230720na\
Data File : DEG0720na.D
Acq On : 20 Jul 2023 6:32 pm
Operator : SV124:cmm
Sample : WG1805740-6,32,,SV124 Degdftpp
Misc : WG1805740,,ical20053
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jul 20 18:50:41 2023
Quant Method : I:\8270\SV124\230720na\DftppSV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 19 08:14:26 2023
Response via : Initial Calibration



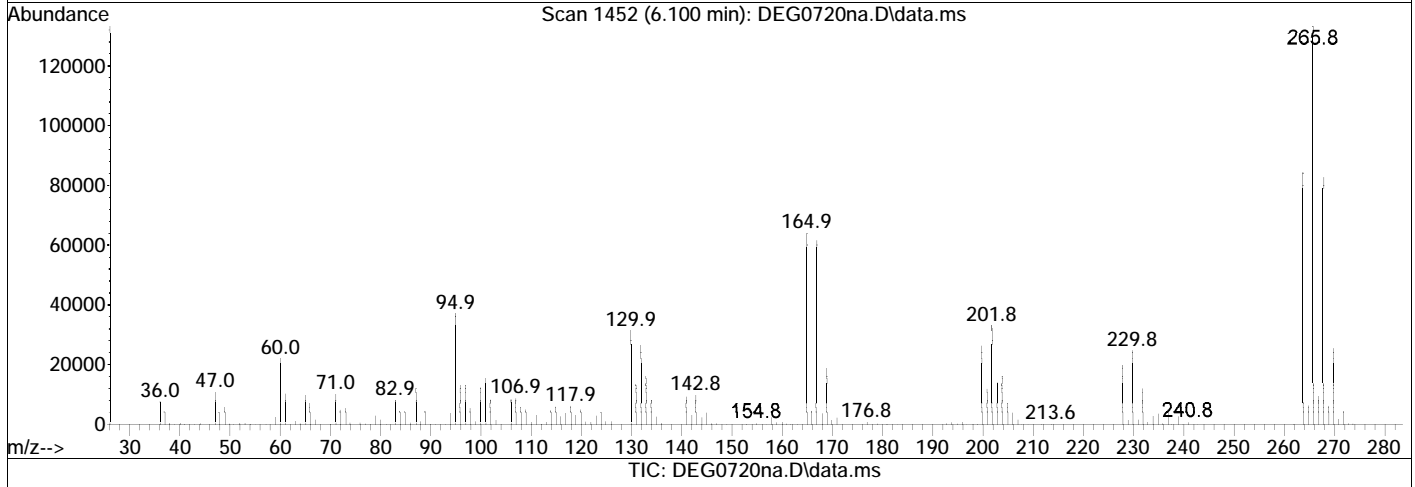
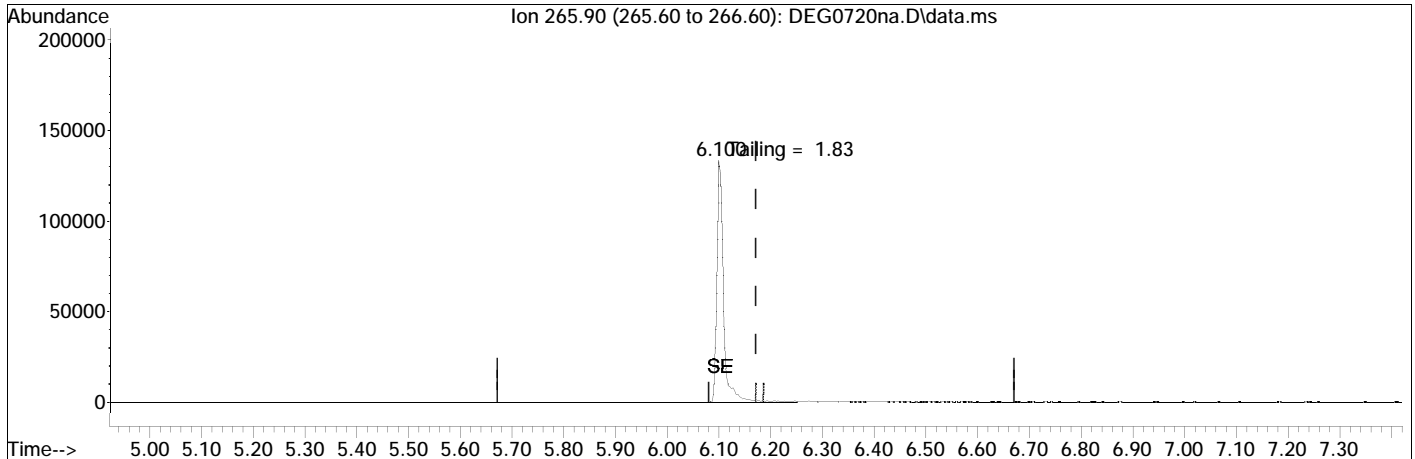
TIC: DEG0720na.D\data.ms

(3) Benzidine (T)		
7.125min (-0.066)	82.95	
response	844443	
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV124\230720na\
 Data File : DEG0720na.D
 Acq On : 20 Jul 2023 6:32 pm
 Operator : SV124:cmm
 Sample : WG1805740-7,32,,SV124 Degdftpp
 Misc : WG1805740,,ical20053
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jul 20 18:50:41 2023
 Quant Method : I:\8270\SV124\230720na\DftppSV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jun 19 08:14:26 2023
 Response via : Initial Calibration



(1) Pentachlorophenol (T)

6.100min (-0.072) 54.37

response 114202

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-1.d
 Acq On : 19 Jul 2023 1:14 am
 Operator : SV103:ek
 Sample : WG1803858-1,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 25 18:04:38 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 01:34:41 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.822	152	191671	40.000	ug/ml	0.00
Standard Area 1 = 229645			Recovery =	83.46%		
27) IS2_1,4-Dichlorobenzen...	3.822	152	191671	40.000	ug/ml	0.00
Standard Area 3 = 170348			Recovery =	112.52%		
32) IS3_1,4-Dichlorobenzen...	3.822	152	191671	40.000	ug/ml	0.00
Standard Area 2 = 151650			Recovery =	126.39%		
35) IS1_Naphthalene-d8	5.078	136	737791	40.000	ug/ml	0.00
Standard Area 1 = 870434			Recovery =	84.76%		
55) IS2_Naphthalene-d8	5.078	136	737791	40.000	ug/ml	0.00
Standard Area 3 = 647727			Recovery =	113.90%		
63) IS1_Acenaphthene-d10	6.766	164	408032	40.000	ug/ml	0.00
Standard Area 1 = 468195			Recovery =	87.15%		
83) IS2_Acenaphthene-d10	6.766	164	408032	40.000	ug/ml	0.00
Standard Area 3 = 342963			Recovery =	118.97%		
86) IS3_Acenaphthene-d10	6.766	164	408032	40.000	ug/ml	0.00
Standard Area 2 = 314489			Recovery =	129.74%		
88) IS1_Phenanthrene-d10	8.172	188	827698	40.000	ug/ml	0.00
Standard Area 1 = 951685			Recovery =	86.97%		
100) IS3_Phenanthrene-d10	8.172	188	827698	40.000	ug/ml	0.00
Standard Area 2 = 639108			Recovery =	129.51%		
104) IS1_Chrysene-d12	10.733	240	769129	40.000	ug/ml	0.00
Standard Area 1 = 883111			Recovery =	87.09%		
113) IS1_Perylene-d12	12.491	264	902455	40.000	ug/ml	0.00
Standard Area 1 = 990767			Recovery =	91.09%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.458	112	196426	36.770	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery =	73.54%		
7) Phenol-d6	3.561	99	253076	37.996	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery =	75.99%		
19) Nitrobenzene-d5	4.393	82	115923	20.973	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery =	83.89%		
46) 2-Fluorobiphenyl	6.161	172	253222	18.254	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery =	73.02%		
79) 2,4,6-Tribromophenol	7.525	330	85816	39.525	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery =	79.05%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-1.d
 Acq On : 19 Jul 2023 1:14 am
 Operator : SV103:ek
 Sample : WG1803858-1,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 25 18:04:38 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 01:34:41 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	9.747	244	337013	17.502	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	70.01%
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0			N.D.
8) Phenol	0.000		0			N.D.
9) Bis(2-chloroethyl)ether	0.000		0			N.D.
14) Bis(2-chloroisopropyl)...	0.000		0			N.D.
15) 2-Methylphenol	0.000		0			N.D.
16) Hexachloroethane	0.000		0			N.D.
17) n-Nitrosodi-n-propylamine	0.000		0			N.D.
18) 3-Methylphenol/4-Methy...	0.000		0			N.D.
20) Nitrobenzene	0.000		0			N.D.
21) Isophorone	0.000		0			N.D.
22) 2-Nitrophenol	0.000		0			N.D.
23) 2,4-Dimethylphenol	0.000		0			N.D.
24) Bis(2-chloroethoxy)met...	0.000		0			N.D.
25) 2,4-Dichlorophenol	0.000		0			N.D.
28) Benzaldehyde	0.000		0			N.D.
29) Acetophenone	0.000		0			N.D.
36) Naphthalene	0.000		0			N.D.
38) 4-Chloroaniline	0.000		0			N.D.
39) Hexachlorobutadiene	0.000		0			N.D.
40) p-Chloro-m-cresol	0.000		0			N.D.
41) 2-Methylnaphthalene	0.000		0			N.D.
43) Hexachlorocyclopentadiene	0.000		0			N.D.
44) 2,4,6-Trichlorophenol	0.000		0			N.D.
45) 2,4,5-Trichlorophenol	0.000		0			N.D.
47) 2-Chloronaphthalene	0.000		0			N.D.
48) 2-Nitroaniline	0.000		0			N.D.
51) Dimethyl phthalate	0.000		0			N.D.
52) Acenaphthylene	0.000		0			N.D.
53) 2,6-Dinitrotoluene	0.000		0			N.D.
60) Caprolactam	0.000		0			N.D.
61) 1,2,4,5-Tetrachloroben...	0.000		0			N.D.
62) Biphenyl	0.000		0			N.D.
64) 3-Nitroaniline	0.000		0			N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-1.d
 Acq On : 19 Jul 2023 1:14 am
 Operator : SV103:ek
 Sample : WG1803858-1,32,,mg
 Misc : wgl1804789,WG1803858,ical20013
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 25 18:04:38 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 01:34:41 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Acenaphthene	0.000		0	N.D.	d	
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.		
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
73) Fluorene	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.	d	
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
81) Hexachlorobenzene	0.000		0	N.D.		
82) Pentachlorophenol	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
89) Phenanthrene	0.000		0	N.D.		
90) Anthracene	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.		
93) Fluoranthene	0.000		0	N.D.		
95) Pyrene	0.000		0	N.D.		
97) Butyl benzyl phthalate	0.000		0	N.D.		
105) Benzo(a)anthracene	0.000		0	N.D.	d	
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Chrysene	0.000		0	N.D.	d	
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	
110) Benzo(b)fluoranthene	0.000		0	N.D.		
111) Benzo(k)fluoranthene	0.000		0	N.D.		
112) Benzo(a)pyrene	0.000		0	N.D.	d	
114) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
115) Dibenzo(a,h)anthracene	0.000		0	N.D.		
116) Benzo(ghi)perylene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
Data File : 803858-1.d
Acq On : 19 Jul 2023 1:14 am
Operator : SV103:ek
Sample : WG1803858-1,32,,mg
Misc : wgl804789,WG1803858,ical20013
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 25 18:04:38 2023
Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 01:34:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
Sub List : 8270TCL_REV2 - TCL/CT/MA

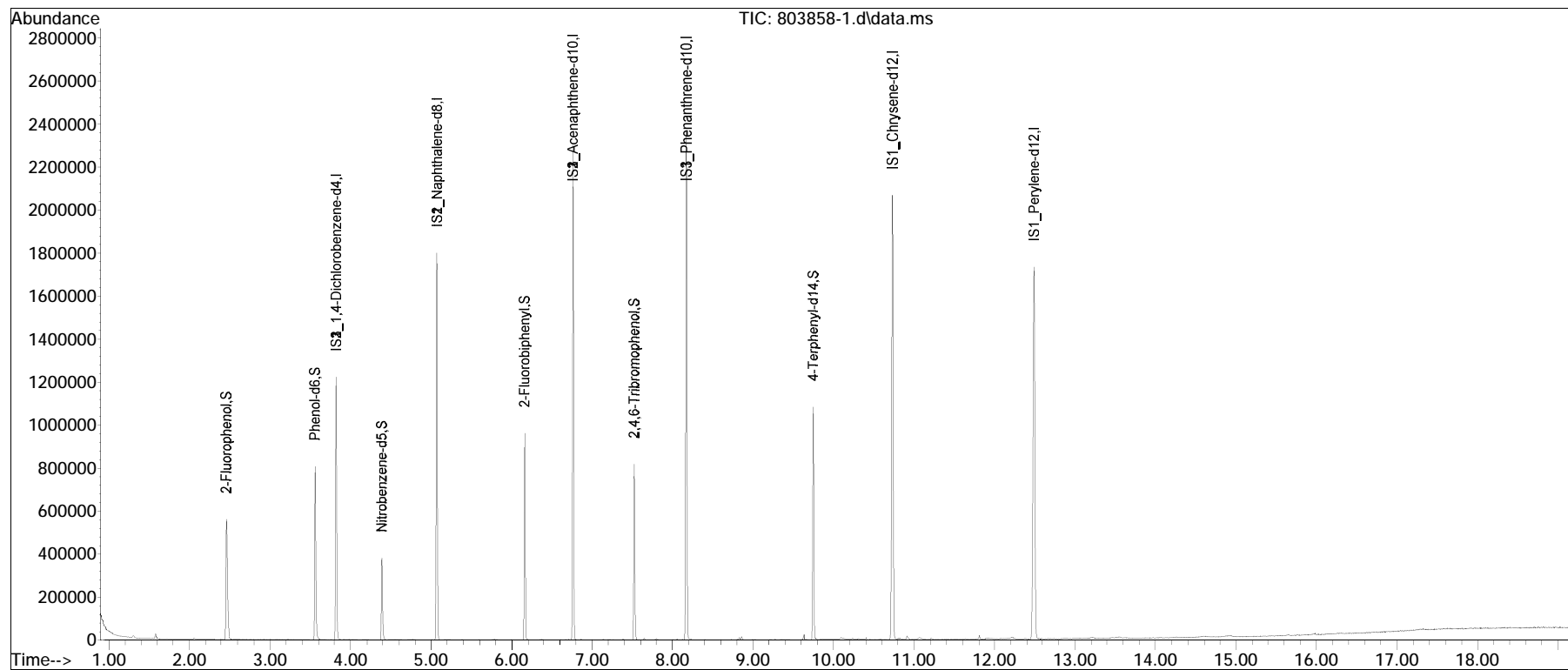
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
Data File : 803858-1.d
Acq On : 19 Jul 2023 1:14 am
Operator : SV103:ek
Sample : WG1803858-1,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 25 18:04:38 2023
Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 01:34:41 2023
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAn\AP90718n.d•



Manual Integration Report

Data Path	: I:\8270\SV103\230718n\	QMethod	: FS230515nSV103.m
Data File	: 803858-1.d	Operator	: SV103:ek
Date Inj'd	: 7/19/2023 1:14 am	Instrument	: SV103
Sample	: WG1803858-1,32,,mg	Quant Date	: 7/19/2023 1:34 am

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-1.d
 Acq On : 19 Jul 2023 1:14 am
 Operator : SV103:ek
 Sample : WG1803858-1,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 500 Area counts
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 803858-1.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.458	546	553	576	rBV	559206	662902	25.66%	4.299%
2	3.561	935	941	959	rBV	804501	703405	27.23%	4.562%
3	3.822	1025	1033	1044	rBV	1221952	1086818	42.07%	7.048%
4	4.393	1226	1234	1253	rBV	380020	335298	12.98%	2.174%
5	5.078	1467	1475	1489	rBV	1799646	1469325	56.87%	9.529%
6	6.161	1849	1856	1868	rBV	961627	748216	28.96%	4.852%
7	6.766	2061	2069	2077	rBV	2302905	1835793	71.06%	11.905%
8	7.525	2328	2336	2352	rBV	817655	705856	27.32%	4.578%
9	8.172	2555	2564	2577	rBV	2370810	2035631	78.79%	13.201%
10	9.627	3070	3076	3085	rBV5	23585	26060	1.01%	0.169%
11	9.747	3110	3118	3129	rBV	1082067	964160	37.32%	6.253%
12	10.733	3449	3465	3480	rBV2	2068106	2262828	87.59%	14.675%
13	12.491	4069	4084	4102	rBV2	1733590	2583515	100.00%	16.755%

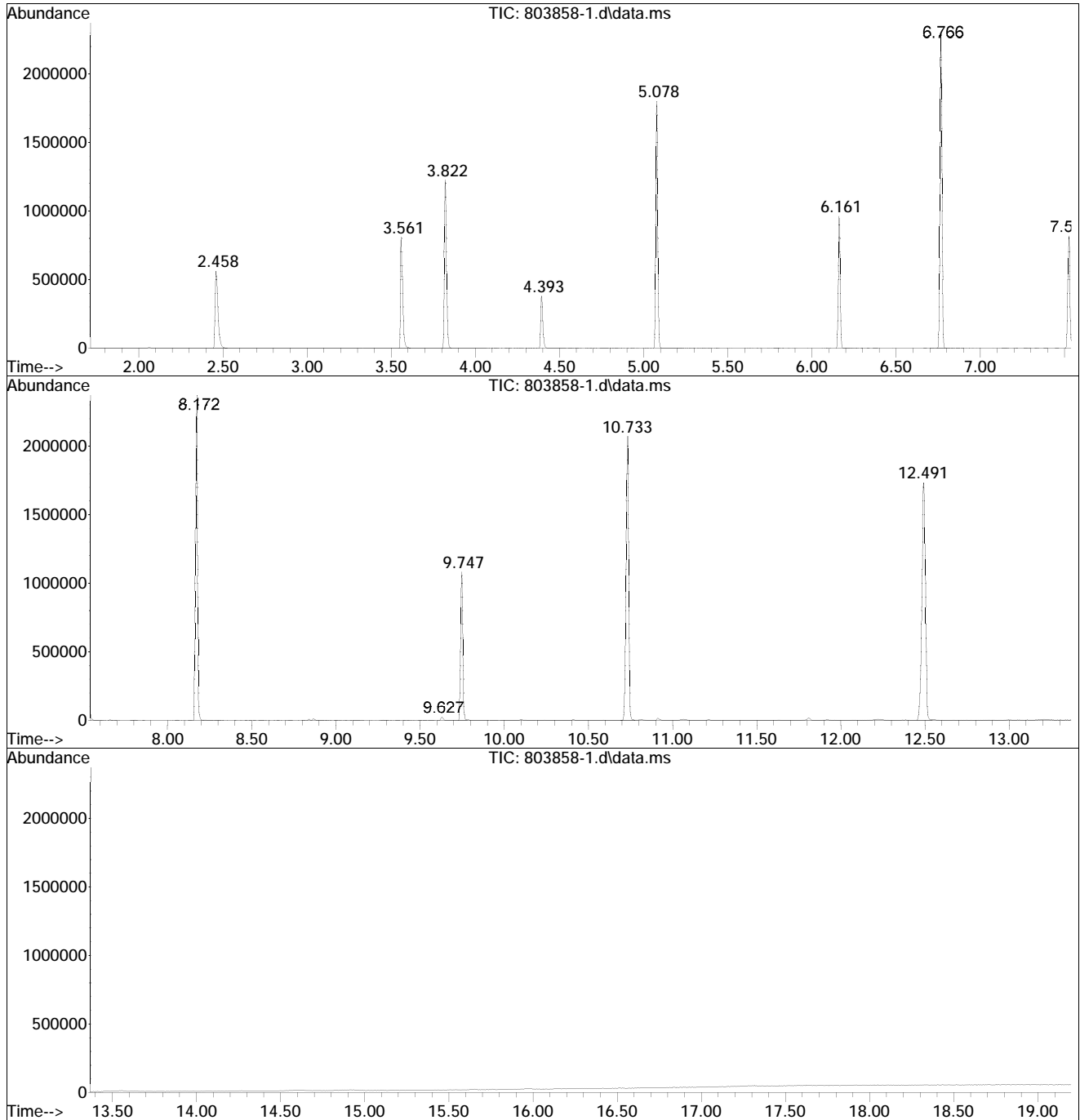
Sum of corrected areas: 15419807

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV103\230718n\
Data File : 803858-1.d
Acq On : 19 Jul 2023 1:14 am
Operator : SV103:ek
Sample : WG1803858-1,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\8270\SV103\230718n\
Data File : 803858-1.d
Acq On : 19 Jul 2023 1:14 am
Operator : SV103:ek
Sample : WG1803858-1,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV103\230718n\
Data File : 803858-1.d
Acq On : 19 Jul 2023 1:14 am
Operator : SV103:ek
Sample : WG1803858-1,32,,mg
Misc : wgl804789,WG1803858,ical20013
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
 Data File : 804755-1.D
 Acq On : 19 Jul 2023 8:08 am
 Operator : SV124:jg
 Sample : WG1804755-1,32,,gmr
 Misc : WG1804924,WG1804755,ical20053
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 19 16:34:42 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:46:09 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230719\ABN0719.D
 : 2 - I:\8270\sv124\230719\ADP0719.D
 : 3 - I:\8270\sv124\230719\AP90719.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.365	152	85920	40.000	ug/ml	0.00
Standard Area 1 = 83649			Recovery = 102.71%			
27) IS2_1,4-Dichlorobenzen...	3.365	152	85920	40.000	ug/ml	0.00
Standard Area 3 = 78776			Recovery = 109.07%			
32) IS3_1,4-Dichlorobenzen...	3.365	152	85920	40.000	ug/ml	0.00
Standard Area 2 = 83138			Recovery = 103.35%			
35) IS1_Naphthalene-d8	4.154	136	348866	40.000	ug/ml	# 0.00
Standard Area 1 = 345862			Recovery = 100.87%			
55) IS2_Naphthalene-d8	4.154	136	348866	40.000	ug/ml	# 0.00
Standard Area 3 = 330473			Recovery = 105.57%			
63) IS1_Acenaphthene-d10	5.279	164	207812	40.000	ug/ml	0.00
Standard Area 1 = 189721			Recovery = 109.54%			
83) IS2_Acenaphthene-d10	5.279	164	207812	40.000	ug/ml	0.00
Standard Area 3 = 175556			Recovery = 118.37%			
86) IS3_Acenaphthene-d10	5.279	164	207812	40.000	ug/ml	0.00
Standard Area 2 = 188343			Recovery = 110.34%			
88) IS1_Phenanthrene-d10	6.243	188	422950	40.000	ug/ml	0.00
Standard Area 1 = 393875			Recovery = 107.38%			
100) IS3_Phenanthrene-d10	6.243	188	422950	40.000	ug/ml	0.00
Standard Area 2 = 380390			Recovery = 111.19%			
104) IS1_Chrysene-d12	8.117	240	445203	40.000	ug/ml	0.00
Standard Area 1 = 362434			Recovery = 122.84%			
113) IS1_Perylene-d12	9.211	264	561768	40.000	ug/ml	0.00
Standard Area 1 = 440891			Recovery = 127.42%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.619	112	84050	36.515	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 73.03%			
7) Phenol-d6	3.147	99	104336	34.702	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 69.40%			
19) Nitrobenzene-d5	3.706	82	43963	14.980	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery = 59.92%			
46) 2-Fluorobiphenyl	4.847	172	103260	15.428	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery = 61.71%			
79) 2,4,6-Tribromophenol	5.792	330	34009	27.108	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 54.22%			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
 Data File : 804755-1.D
 Acq On : 19 Jul 2023 8:08 am
 Operator : SV124:jg
 Sample : WG1804755-1,32,,gmr
 Misc : WG1804924,WG1804755,ical20053
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 19 16:34:42 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:46:09 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230719\ABN0719.D
 : 2 - I:\8270\sv124\230719\ADP0719.D
 : 3 - I:\8270\sv124\230719\AP90719.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	7.324	244	148657	14.549	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	58.20%
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0			N.D.
8) Phenol	0.000		0			N.D.
9) Bis(2-chloroethyl)ether	0.000		0			N.D.
14) Bis(2-chloroisopropyl)...	0.000		0			N.D.
15) 2-Methylphenol	0.000		0			N.D.
16) Hexachloroethane	0.000		0			N.D.
17) n-Nitrosodi-n-propylamine	0.000		0			N.D. d
18) 3-Methylphenol/4-Methy...	0.000		0			N.D.
20) Nitrobenzene	0.000		0			N.D.
21) Isophorone	0.000		0			N.D. d
22) 2-Nitrophenol	0.000		0			N.D.
23) 2,4-Dimethylphenol	0.000		0			N.D.
24) Bis(2-chloroethoxy)met...	0.000		0			N.D.
25) 2,4-Dichlorophenol	0.000		0			N.D.
28) Benzaldehyde	0.000		0			N.D.
29) Acetophenone	0.000		0			N.D.
36) Naphthalene	0.000		0			N.D.
38) 4-Chloroaniline	0.000		0			N.D. d
39) Hexachlorobutadiene	0.000		0			N.D.
40) p-Chloro-m-cresol	0.000		0			N.D.
41) 2-Methylnaphthalene	0.000		0			N.D.
43) Hexachlorocyclopentadiene	0.000		0			N.D.
44) 2,4,6-Trichlorophenol	0.000		0			N.D.
45) 2,4,5-Trichlorophenol	0.000		0			N.D.
47) 2-Chloronaphthalene	0.000		0			N.D.
48) 2-Nitroaniline	0.000		0			N.D.
51) Dimethyl phthalate	0.000		0			N.D.
52) Acenaphthylene	0.000		0			N.D.
53) 2,6-Dinitrotoluene	0.000		0			N.D.
60) Caprolactam	0.000		0			N.D.
61) 1,2,4,5-Tetrachloroben...	0.000		0			N.D.
62) Biphenyl	0.000		0			N.D.
64) 3-Nitroaniline	0.000		0			N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
 Data File : 804755-1.D
 Acq On : 19 Jul 2023 8:08 am
 Operator : SV124:jg
 Sample : WG1804755-1,32,,gmr
 Misc : WG1804924,WG1804755,ical20053
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 19 16:34:42 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:46:09 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230719\ABN0719.D
 : 2 - I:\8270\sv124\230719\ADP0719.D
 : 3 - I:\8270\sv124\230719\AP90719.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Acenaphthene	0.000		0	N.D.	d	
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.		
69) 4-Nitrophenol	0.000		0	N.D.	d	
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
73) Fluorene	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.	d	
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
81) Hexachlorobenzene	0.000		0	N.D.		
82) Pentachlorophenol	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
89) Phenanthrene	0.000		0	N.D.		
90) Anthracene	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.		
93) Fluoranthene	0.000		0	N.D.		
95) Pyrene	0.000		0	N.D.		
97) Butyl benzyl phthalate	0.000		0	N.D.		
105) Benzo(a)anthracene	0.000		0	N.D.	d	
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Chrysene	0.000		0	N.D.	d	
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	
110) Benzo(b)fluoranthene	0.000		0	N.D.		
111) Benzo(k)fluoranthene	0.000		0	N.D.		
112) Benzo(a)pyrene	0.000		0	N.D.	d	
114) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
115) Dibenzo(a,h)anthracene	0.000		0	N.D.		
116) Benzo(ghi)perylene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
Data File : 804755-1.D
Acq On : 19 Jul 2023 8:08 am
Operator : SV124:jg
Sample : WG1804755-1,32,,gmr
Misc : WG1804924,WG1804755,ical20053
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 19 16:34:42 2023
Quant Method : I:\8270\SV124\230719\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 09:46:09 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230719\ABN0719.D
 : 2 - I:\8270\sv124\230719\ADP0719.D
 : 3 - I:\8270\sv124\230719\AP90719.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

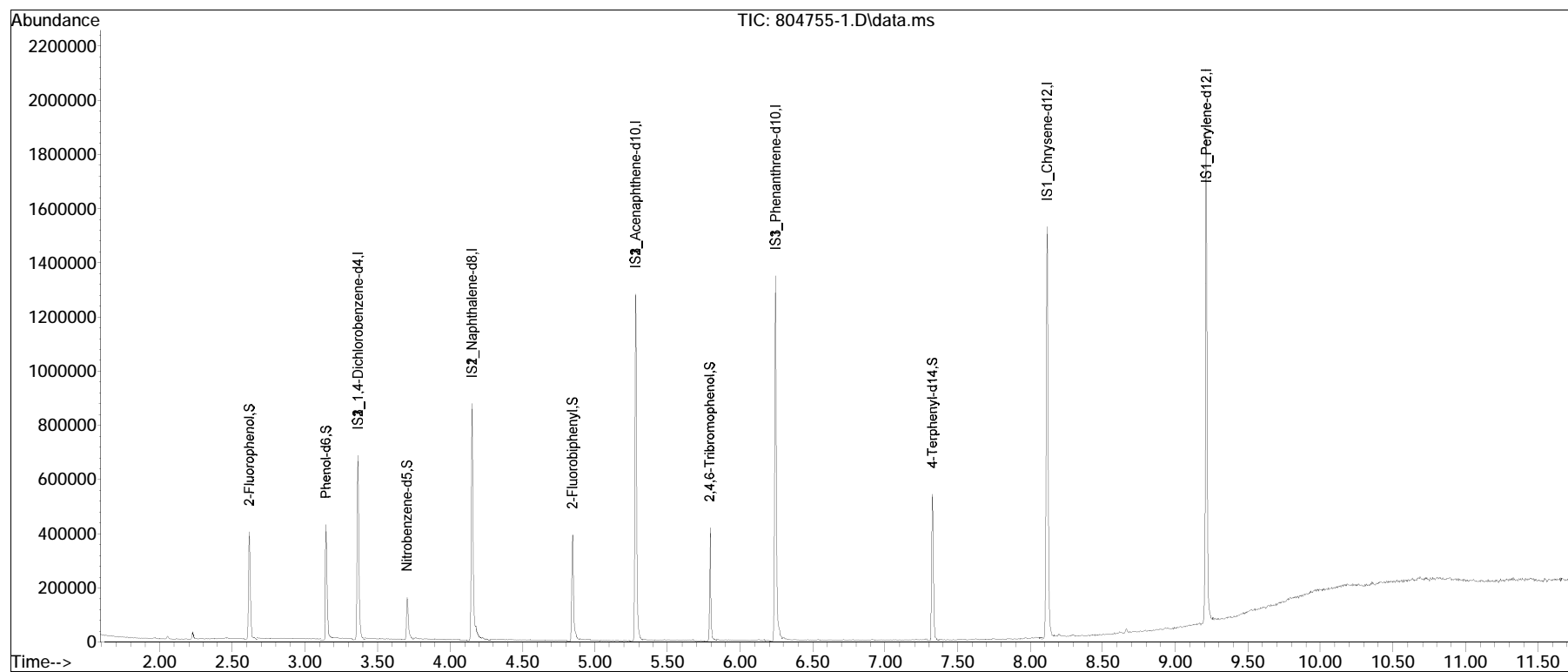
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
Data File : 804755-1.D
Acq On : 19 Jul 2023 8:08 am
Operator : SV124:jg
Sample : WG1804755-1,32,,gmr
Misc : WG1804924,WG1804755,ical20053
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 19 16:34:42 2023
Quant Method : I:\8270\SV124\230719\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 09:46:09 2023
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MA\AP90719.D•



Manual Integration Report

Data Path	: I:\8270\SV124\230719\	QMethod	: FS230526SV124.m
Data File	: 804755-1.D	Operator	: SV124:jg
Date Inj'd	: 7/19/2023 8:08 am	Instrument	: SV124
Sample	: WG1804755-1,32,,gmr	Quant Date	: 7/19/2023 9:57 am

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\8270\SV124\230719\
 Data File : 804755-1.D
 Acq On : 19 Jul 2023 8:08 am
 Operator : SV124:jg
 Sample : WG1804755-1,32,,gmr
 Misc : WG1804924,WG1804755,ical20053
 ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 500 Area counts
 Start Thrs: 0.001 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : I:\8270\SV124\230719\FS230526SV124.m
 Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 804755-1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.227	201	206	212	rBV2	27015	20443	1.24%	0.251%
2	2.619	320	332	342	rBV	396986	329800	20.04%	4.056%
3	3.147	497	502	520	rBV	424141	334502	20.33%	4.114%
4	3.365	566	572	587	rBV	678779	540514	32.85%	6.647%
5	3.706	678	682	699	rBV	154997	139881	8.50%	1.720%
6	4.154	820	826	833	rBV	873975	681242	41.40%	8.378%
7	4.847	1044	1049	1063	rBV	390694	309335	18.80%	3.804%
8	5.279	1182	1188	1208	rBV	1280168	981176	59.62%	12.066%
9	5.792	1347	1353	1366	rBV	418459	318858	19.38%	3.921%
10	6.243	1492	1498	1514	rBV	1346576	1054092	64.05%	12.963%
11	7.324	1840	1846	1859	rBV	540984	429643	26.11%	5.284%
12	8.117	2094	2101	2116	rBV	1521582	1346517	81.82%	16.559%
13	9.211	2446	2453	2467	rBV	1812099	1645650	100.00%	20.238%

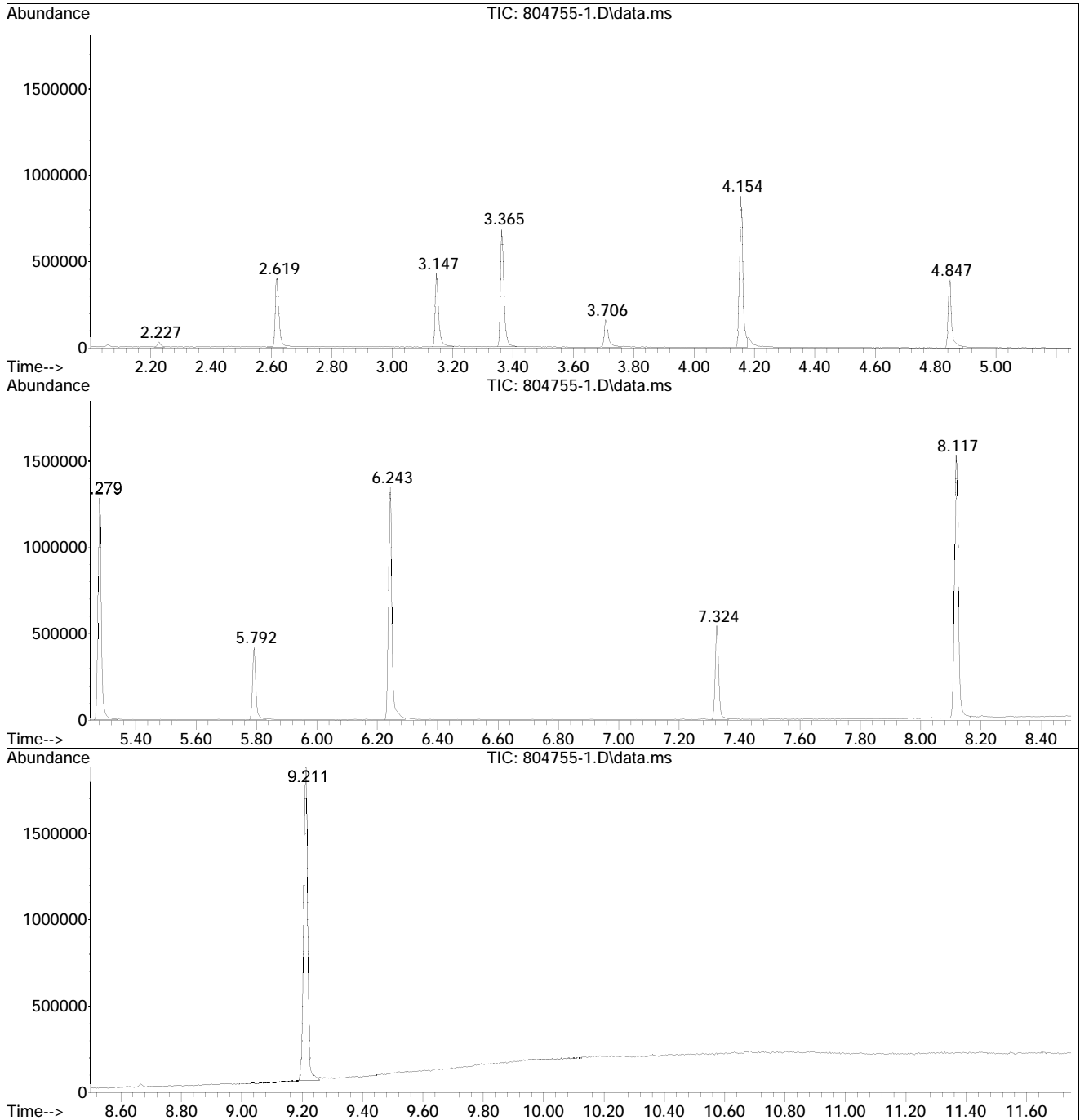
Sum of corrected areas: 8131653

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV124\230719\
Data File : 804755-1.D
Acq On : 19 Jul 2023 8:08 am
Operator : SV124:jg
Sample : WG1804755-1,32,,gmr
Misc : WG1804924,WG1804755,ical20053
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV124\230719\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : I:\8270\SV124\230719\
Data File : 804755-1.D
Acq On : 19 Jul 2023 8:08 am
Operator : SV124:jg
Sample : WG1804755-1,32,,gmr
Misc : WG1804924,WG1804755,ical20053
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV124\230719\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: lscint.p

No Library Search Compounds Detected

Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV124\230719\
Data File : 804755-1.D
Acq On : 19 Jul 2023 8:08 am
Operator : SV124:jg
Sample : WG1804755-1,32,,gmr
Misc : WG1804924,WG1804755,ical20053
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV124\230719\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-2.d
 Acq On : 19 Jul 2023 1:38 am
 Operator : SV103:ek
 Sample : WG1803858-2,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 25 18:05:30 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 01:58:41 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.822	152	196011	40.000	ug/ml	0.00
Standard Area 1 = 229645			Recovery =	85.35%		
27) IS2_1,4-Dichlorobenzen...	3.822	152	196011	40.000	ug/ml	0.00
Standard Area 3 = 170348			Recovery =	115.07%		
32) IS3_1,4-Dichlorobenzen...	3.822	152	196011	40.000	ug/ml	0.00
Standard Area 2 = 151650			Recovery =	129.25%		
35) IS1_Naphthalene-d8	5.078	136	777112	40.000	ug/ml	0.00
Standard Area 1 = 870434			Recovery =	89.28%		
55) IS2_Naphthalene-d8	5.078	136	777112	40.000	ug/ml	0.00
Standard Area 3 = 647727			Recovery =	119.98%		
63) IS1_Acenaphthene-d10	6.769	164	433453	40.000	ug/ml	0.00
Standard Area 1 = 468195			Recovery =	92.58%		
83) IS2_Acenaphthene-d10	6.769	164	433453	40.000	ug/ml	0.00
Standard Area 3 = 342963			Recovery =	126.38%		
86) IS3_Acenaphthene-d10	6.769	164	433453	40.000	ug/ml	0.00
Standard Area 2 = 314489			Recovery =	137.83%		
88) IS1_Phenanthrene-d10	8.175	188	894258	40.000	ug/ml	0.00
Standard Area 1 = 951685			Recovery =	93.97%		
100) IS3_Phenanthrene-d10	8.175	188	894258	40.000	ug/ml	0.00
Standard Area 2 = 639108			Recovery =	139.92%		
104) IS1_Chrysene-d12	10.735	240	843396	40.000	ug/ml	0.00
Standard Area 1 = 883111			Recovery =	95.50%		
113) IS1_Perylene-d12	12.497	264	992840	40.000	ug/ml	0.00
Standard Area 1 = 990767			Recovery =	100.21%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.461	112	223117	40.842	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	81.68%	
7) Phenol-d6	3.563	99	284434	41.758	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	83.52%	
19) Nitrobenzene-d5	4.393	82	131631	23.288	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	93.15%	
46) 2-Fluorobiphenyl	6.163	172	284053	19.440	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	77.76%	
79) 2,4,6-Tribromophenol	7.527	330	99722	43.237	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	86.47%	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-2.d
 Acq On : 19 Jul 2023 1:38 am
 Operator : SV103:ek
 Sample : WG1803858-2,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 25 18:05:30 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 01:58:41 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	9.746	244	378468	18.192	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	72.77%
Target Compounds						Qvalue
6) 2-Chlorophenol	3.617	128	209074	32.933	ug/ml	91
8) Phenol	3.575	94	249919	32.127	ug/ml#	94
9) Bis(2-chloroethyl)ether	3.606	93	178044	32.401	ug/ml#	86
14) Bis(2-chloroisopropyl)...	4.160	45	210100	23.904	ug/ml#	70
15) 2-Methylphenol	4.183	108	188152	34.697	ug/ml	99
16) Hexachloroethane	4.314	117	85842	33.012	ug/ml#	83
17) n-Nitrosodi-n-propylamine	4.291	70	143688	37.913	ug/ml	99
18) 3-Methylphenol/4-Methy...	4.345	108	218053	38.126	ug/ml#	28
20) Nitrobenzene	4.410	77	212270	37.221	ug/ml	95
21) Isophorone	4.663	82	380464	36.827	ug/ml	100
22) 2-Nitrophenol	4.731	139	113308	40.659	ug/ml	88
23) 2,4-Dimethylphenol	4.851	107	201580	34.441	ug/ml	97
24) Bis(2-chloroethoxy)met...	4.924	93	236577	35.261	ug/ml#	97
25) 2,4-Dichlorophenol	4.987	162	185725	35.818	ug/ml	96
28) Benzaldehyde	3.367	105	158764	37.673	ug/ml	93
29) Acetophenone	4.257	105	291712	34.201	ug/ml#	91
36) Naphthalene	5.098	128	617800	30.220	ug/ml	100
38) 4-Chloroaniline	5.197	65	73374	34.673	ug/ml	95
39) Hexachlorobutadiene	5.260	225	111048	32.860	ug/ml	99
40) p-Chloro-m-cresol	5.734	107	185130	36.149	ug/ml	94
41) 2-Methylnaphthalene	5.780	142	403079	31.674	ug/ml	95
43) Hexachlorocyclopentadiene	5.950	237	102436	27.888	ug/ml	94
44) 2,4,6-Trichlorophenol	6.087	196	137763	37.950	ug/ml	94
45) 2,4,5-Trichlorophenol	6.124	196	147725	36.012	ug/ml	97
47) 2-Chloronaphthalene	6.240	162	397580	31.739	ug/ml	98
48) 2-Nitroaniline	6.374	138	144206	36.784	ug/ml	86
51) Dimethyl phthalate	6.590	163	480584	33.335	ug/ml	99
52) Acenaphthylene	6.626	152	684398	35.532	ug/ml	98
53) 2,6-Dinitrotoluene	6.626	165	106307	35.884	ug/ml#	86
60) Caprolactam	5.521	55	91514	35.835	ug/ml#	89
61) 1,2,4,5-Tetrachloroben...	5.950	216	206939	35.305	ug/ml	98
62) Biphenyl	6.246	154	511657	32.003	ug/ml	98
64) 3-Nitroaniline	6.774	138	114936	30.123	ug/ml#	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-2.d
 Acq On : 19 Jul 2023 1:38 am
 Operator : SV103:ek
 Sample : WG1803858-2,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 25 18:05:30 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 01:58:41 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Acenaphthene	6.797	154	375137	29.833	ug/ml	94
66) 2,4-Dinitrophenol	6.891	184	29188	19.747	ug/ml	90
67) Dibenzofuran	6.967	168	580379	29.779	ug/ml	94
68) 2,4-Dinitrotoluene	7.010	165	150562	36.154	ug/ml#	80
69) 4-Nitrophenol	7.013	65	100924	40.682	ug/ml	95
71) 2,3,4,6-Tetrachlorophenol	7.115	232	119748	34.138	ug/ml	99
72) Diethyl phthalate	7.274	149	502994	33.125	ug/ml	99
73) Fluorene	7.291	166	469169	31.038	ug/ml	96
74) 4-Chlorophenyl phenyl ...	7.328	204	219307	30.708	ug/ml	91
75) 4-Nitroaniline	7.354	138	126073	32.582	ug/ml#	81
76) 4,6-Dinitro-o-cresol	7.399	198	86761	40.775	ug/ml#	78
77) NDPA/DPA	7.450	169	399812	30.944	ug/ml	95
80) 4-Bromophenyl phenyl e...	7.786	248	131960	31.070	ug/ml#	88
81) Hexachlorobenzene	7.820	284	161582	31.148	ug/ml	92
82) Pentachlorophenol	8.030	266	93602	29.873	ug/ml	99
87) Atrazine	8.007	200	144242	41.662	ug/ml	99
89) Phenanthrene	8.195	178	725158	29.423	ug/ml	99
90) Anthracene	8.243	178	744906	30.676	ug/ml	99
91) Carbazole	8.428	167	703805	30.940	ug/ml	98
92) Di-n-butylphthalate	8.848	149	900489	36.871	ug/ml	99
93) Fluoranthene	9.329	202	827142	31.978	ug/ml	97
95) Pyrene	9.530	202	879177	31.607	ug/ml	99
97) Butyl benzyl phthalate	10.269	149	422056	35.262	ug/ml	94
105) Benzo(a)anthracene	10.727	228	844785	30.236	ug/ml	99
106) 3,3'-Dichlorobenzidine	10.749	252	283834	27.834	ug/ml	98
107) Chrysene	10.761	228	812318	29.044	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	10.934	149	643252	32.719	ug/ml	97
109) Di-n-octylphthalate	11.744	149	1127008	34.203	ug/ml#	90
110) Benzo(b)fluoranthene	12.005	252	837701	30.888	ug/ml	98
111) Benzo(k)fluoranthene	12.039	252	815867	29.325	ug/ml	99
112) Benzo(a)pyrene	12.414	252	792870	33.901	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	13.929	276	713407	33.685	ug/mL	98
115) Dibenzo(a,h)anthracene	13.989	278	774275	30.495	ug/ml	98
116) Benzo(ghi)perylene	14.267	276	792224	30.638	ug/ml	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
Data File : 803858-2.d
Acq On : 19 Jul 2023 1:38 am
Operator : SV103:ek
Sample : WG1803858-2,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 25 18:05:30 2023
Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 01:58:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
Sub List : 8270TCL_REV2 - TCL/CT/MA

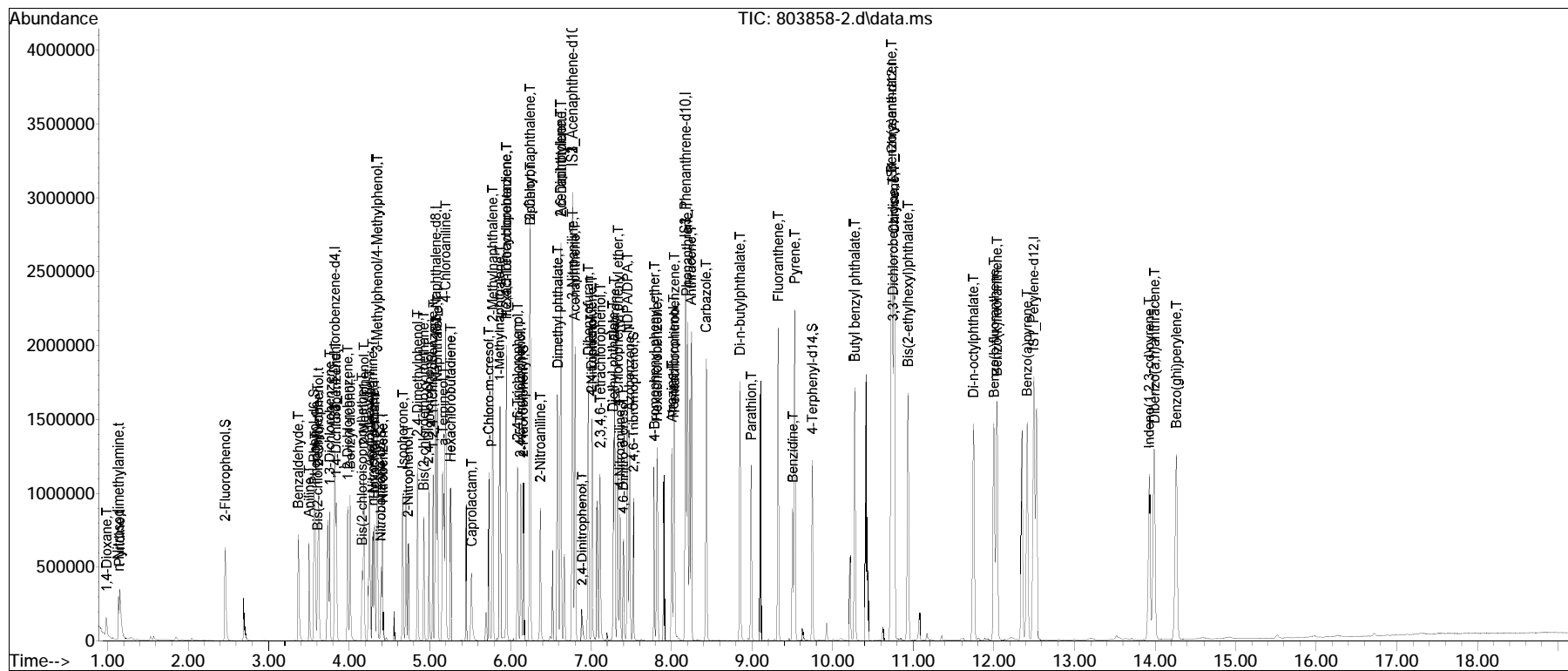
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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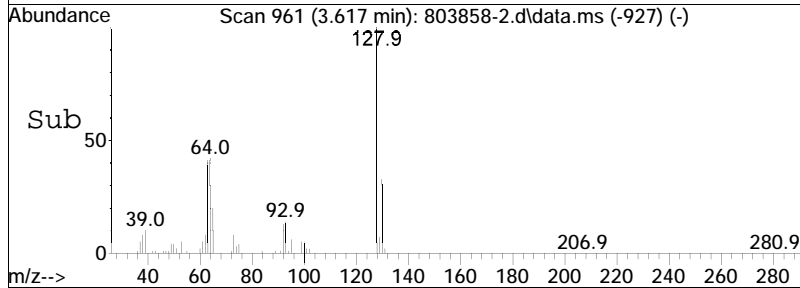
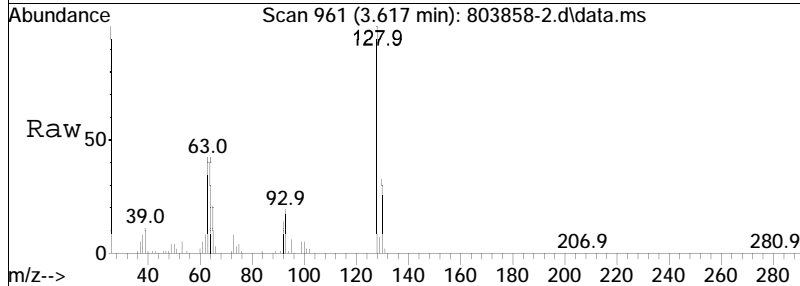
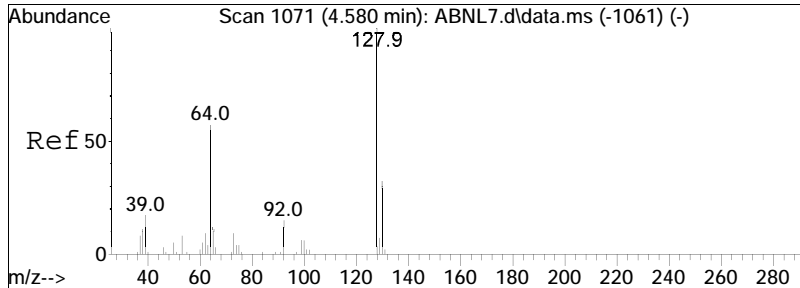
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-2.d
 Acq On : 19 Jul 2023 1:38 am
 Operator : SV103:ek
 Sample : WG1803858-2,32,,mg
 Misc : wg1804789,WG1803858,ical20013
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 25 18:05:30 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 01:58:41 2023
 Response via : Initial Calibration

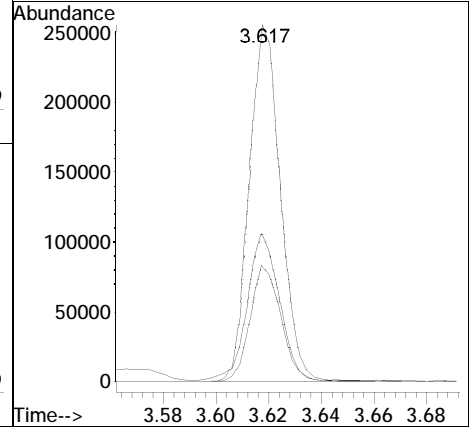
Sub List : 8270TCL_REV2 - TCL/CT/Man\AP90718n.d•

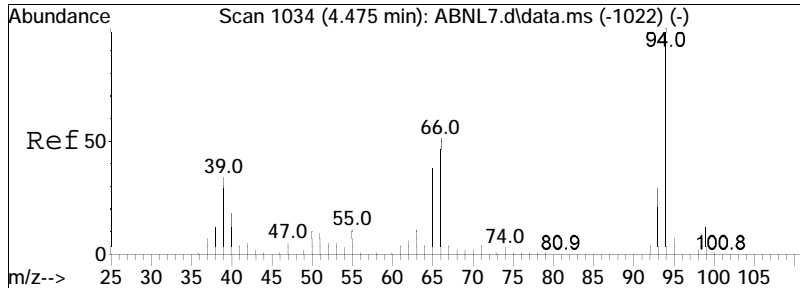




#6
 2-Chlorophenol
 Concen: 32.93 ug/ml
 RT: 3.617 min Scan# 961
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

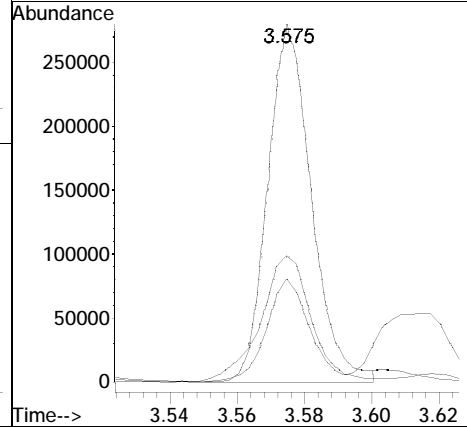
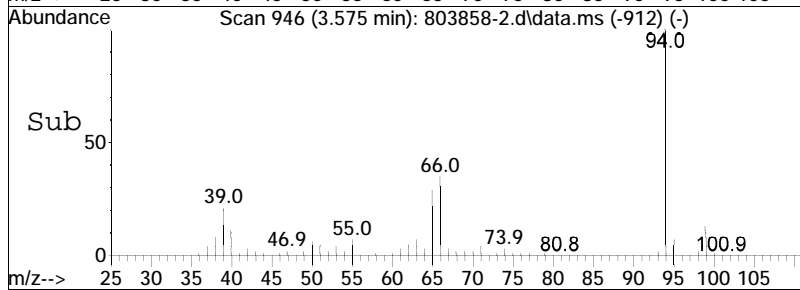
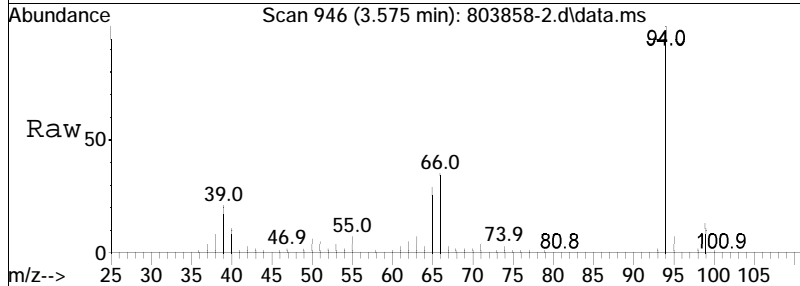
Tgt Ion	Ratio	Lower	Upper
128	100		
64	43.3	42.7	64.1
130	32.3	25.8	38.6

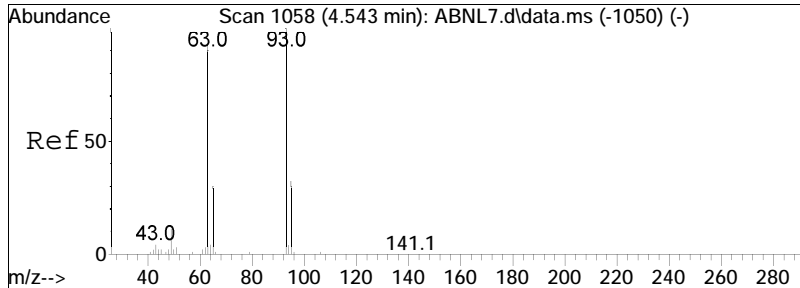




#8
 Phenol
 Concen: 32.13 ug/ml
 RT: 3.575 min Scan# 946
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

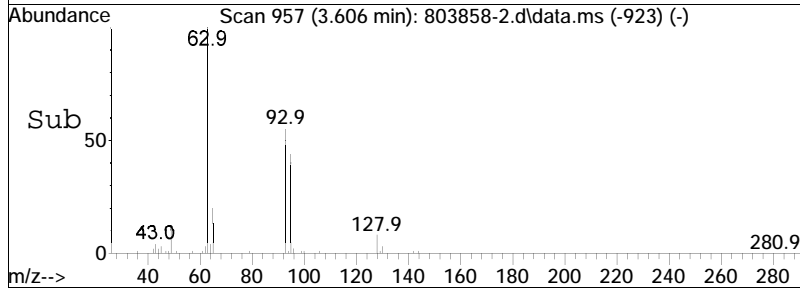
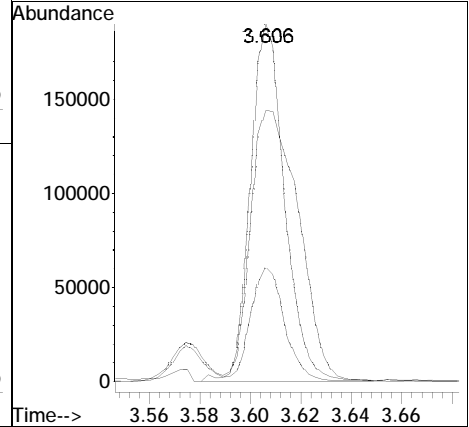
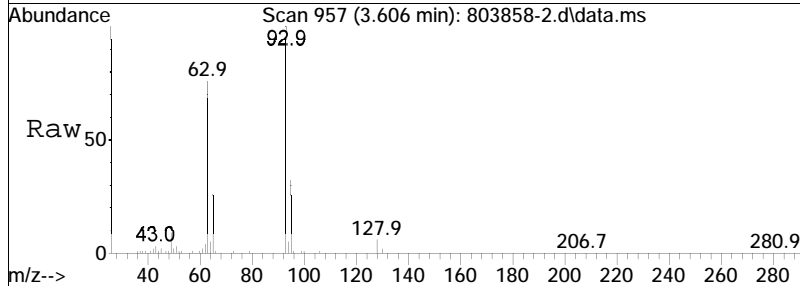
Tgt Ion:	94	Resp:	249919
Ion Ratio	Lower	Upper	
94	100		
65	28.5	20.5	30.7
66	41.0	0.0	0.0#

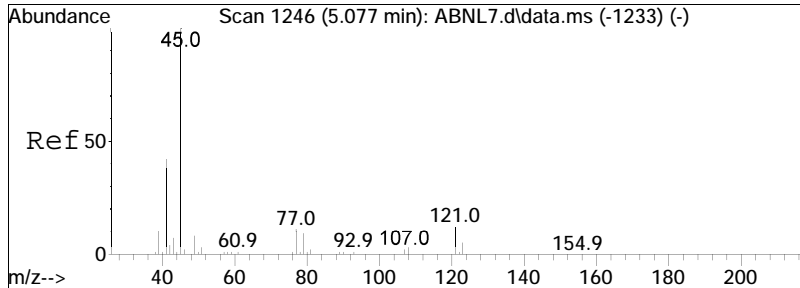




#9
 Bis(2-chloroethyl)ether
 Concen: 32.40 ug/ml
 RT: 3.606 min Scan# 957
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

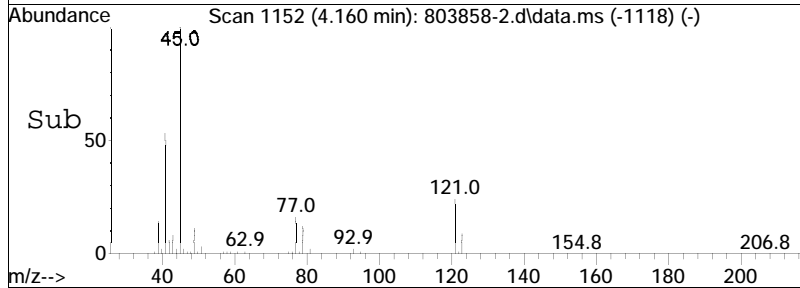
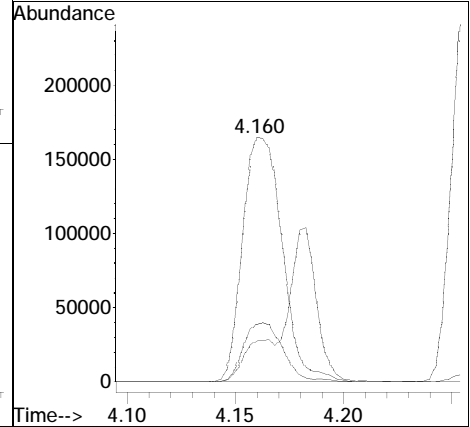
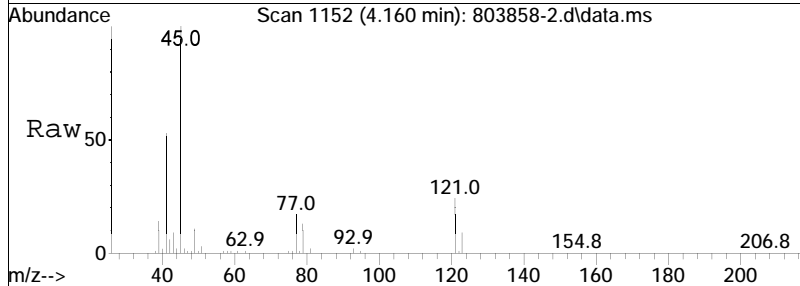
Tgt Ion:	93	Resp:	178044
Ion Ratio	Lower	Upper	
93	100		
63	105.8	70.4	105.6#
95	31.6	25.8	38.6

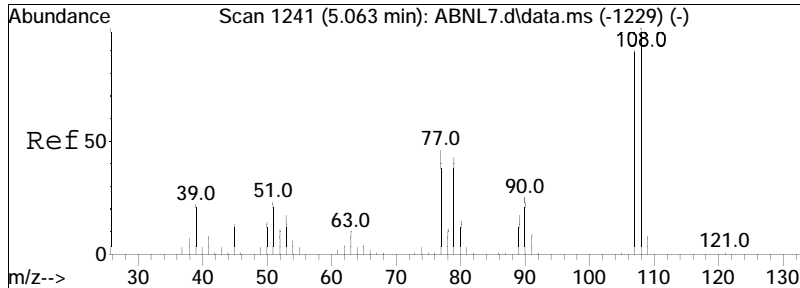




#14
 Bis(2-chloroisopropyl) ether
 Concen: 23.90 ug/ml
 RT: 4.160 min Scan# 1152
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

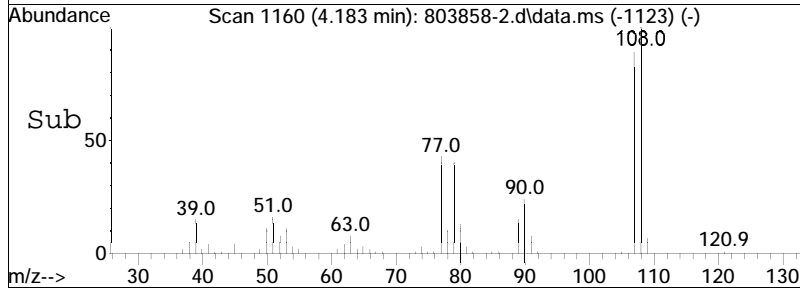
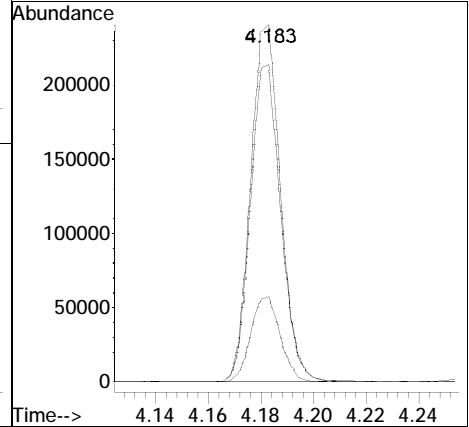
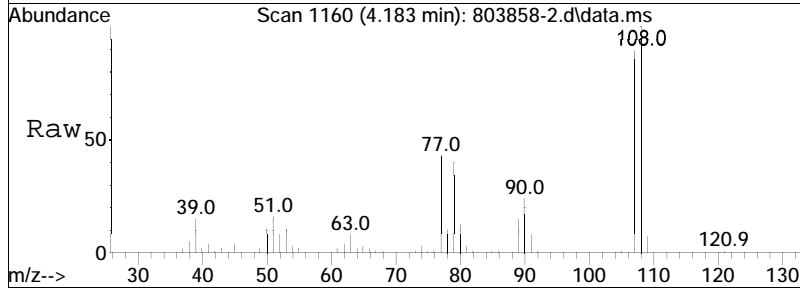
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
45	100		
121	24.2	12.6	19.0#
77	13.7	26.4	39.6#

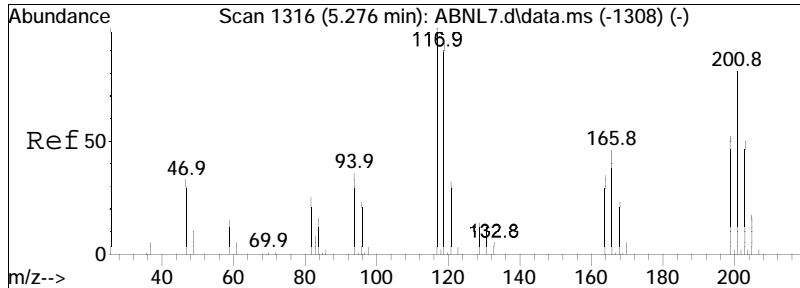




#15
 2-Methylphenol
 Concen: 34.70 ug/ml
 RT: 4.183 min Scan# 1160
 Delta R.T. 0.006 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

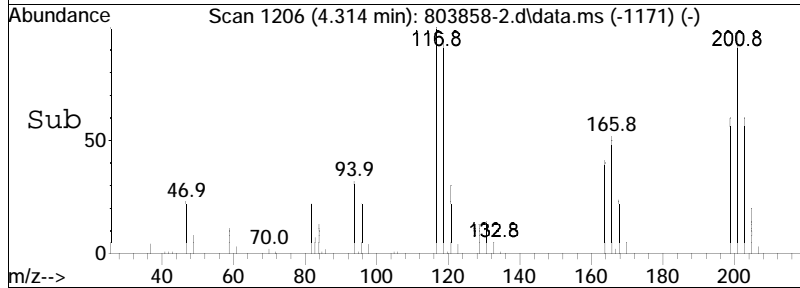
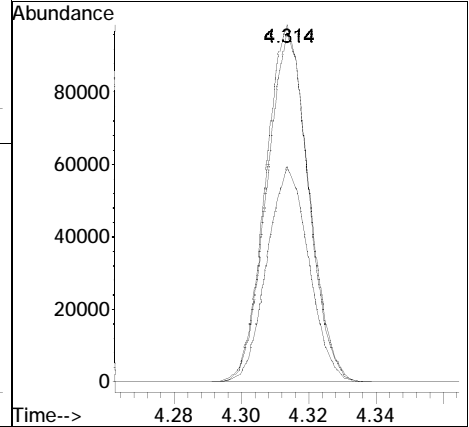
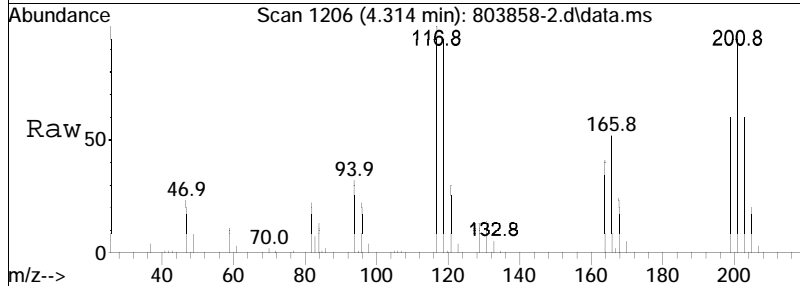
Tgt Ion	Ratio	Lower	Upper
108	100		
107	90.0	72.8	109.2
90	23.8	20.2	30.4

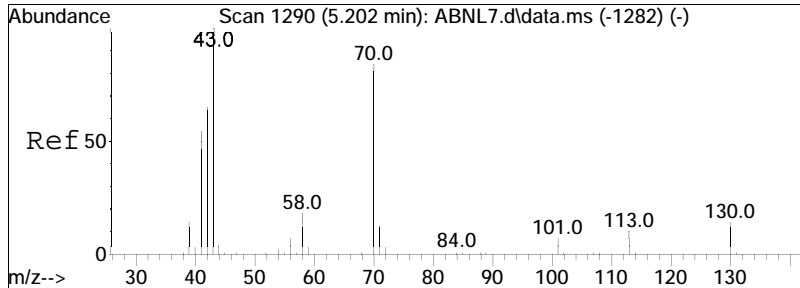




#16
 Hexachloroethane
 Concen: 33.01 ug/ml
 RT: 4.314 min Scan# 1206
 Delta R.T. -0.000 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

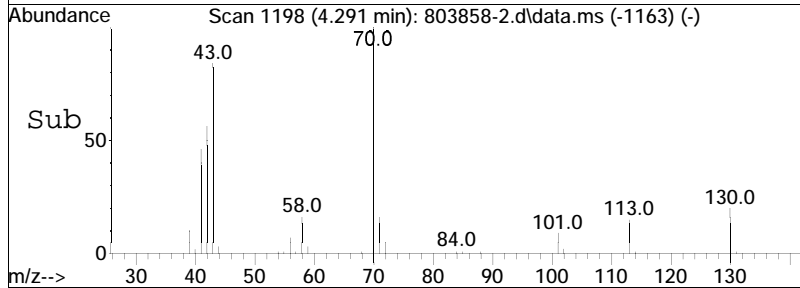
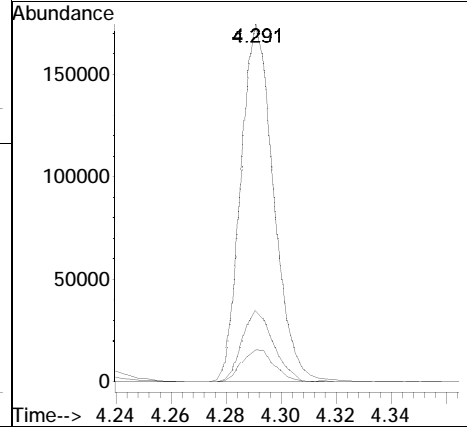
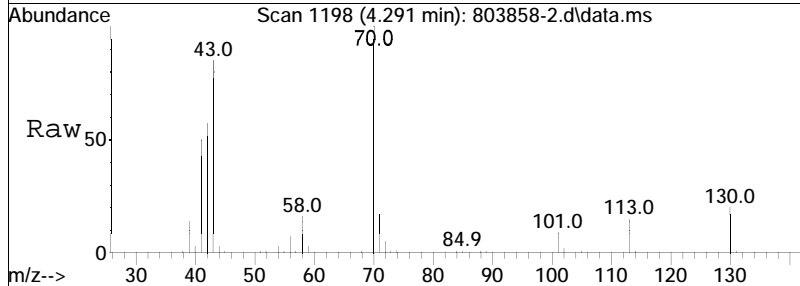
Tgt Ion	Resp	Lower	Upper
117	100		
201	97.3	64.5	96.7#
199	59.6	40.3	60.5

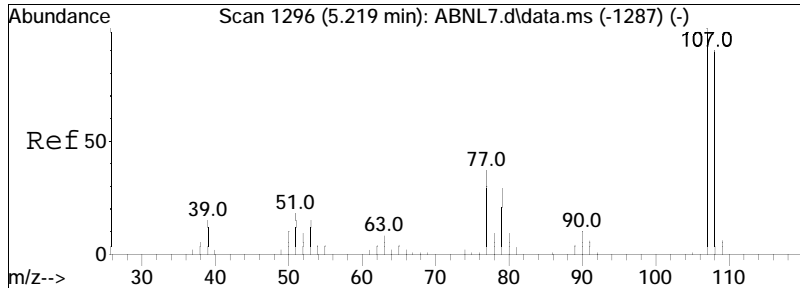




#17
 n-Nitrosodi-n-propylamine
 Concen: 37.91 ug/ml
 RT: 4.291 min Scan# 1198
 Delta R.T. -0.000 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

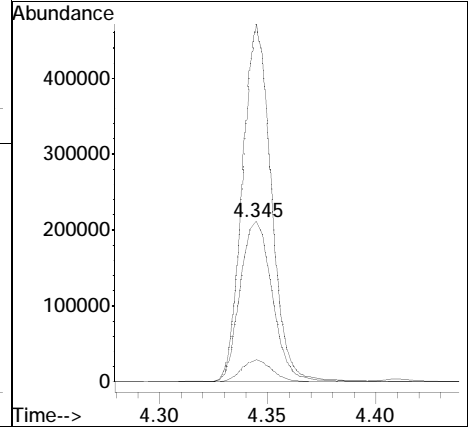
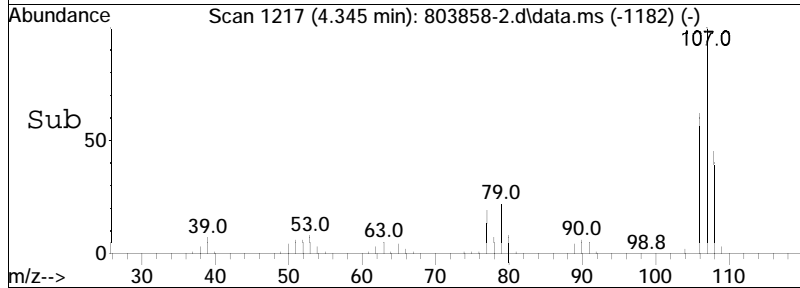
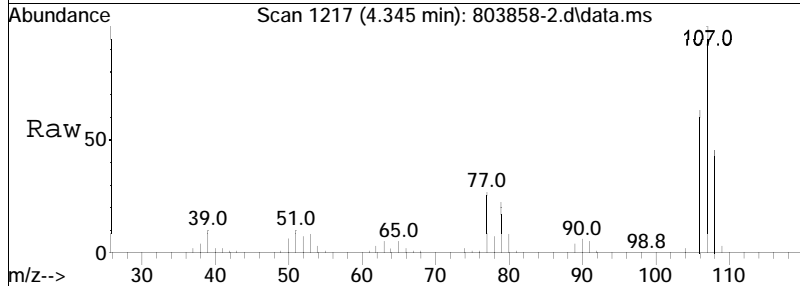
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
70	100		
130	19.1	15.0	22.4
101	9.1	7.4	11.0

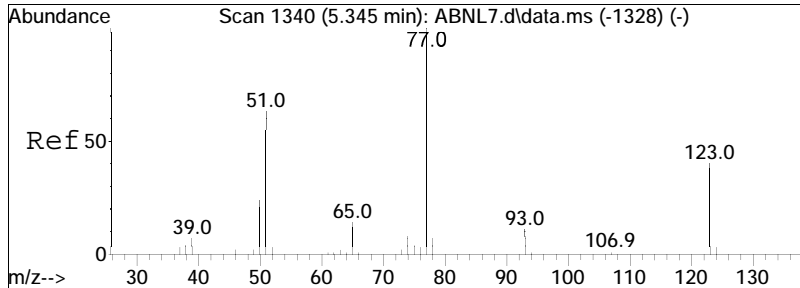




#18
 3-Methylphenol/4-Methylphenol
 Concen: 38.13 ug/ml
 RT: 4.345 min Scan# 1217
 Delta R.T. -0.000 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

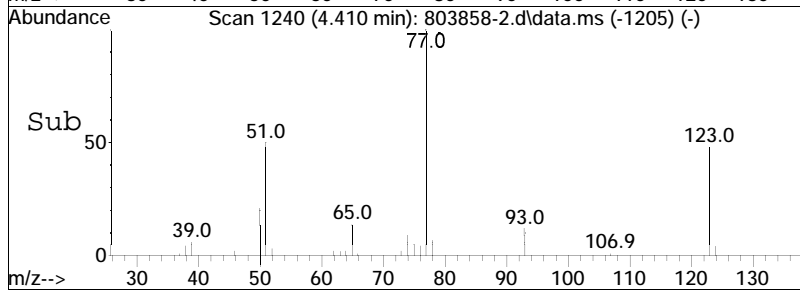
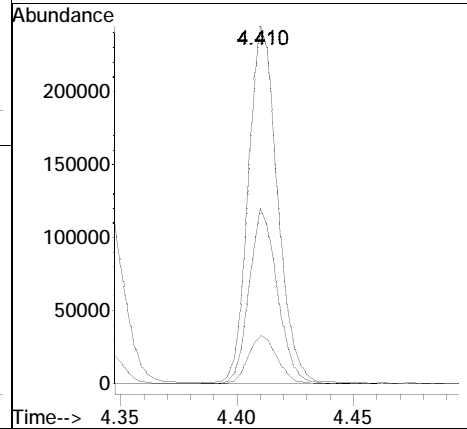
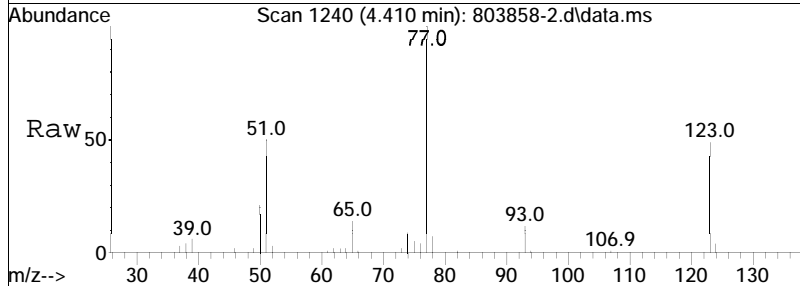
Tgt Ion	Ratio	Lower	Upper
108	100		
107	197.8	90.4	135.6#
90	13.2	9.2	13.8

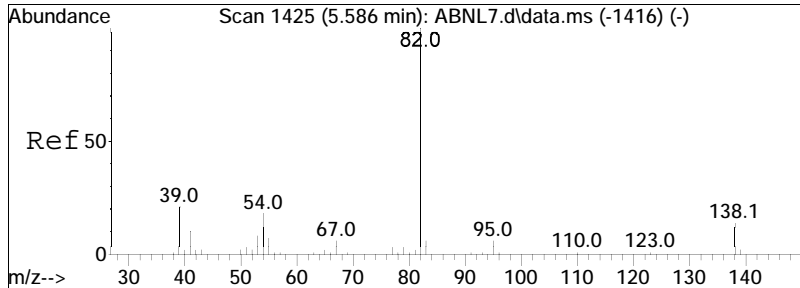




#20
 Nitrobenzene
 Concen: 37.22 ug/ml
 RT: 4.410 min Scan# 1240
 Delta R.T. -0.000 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

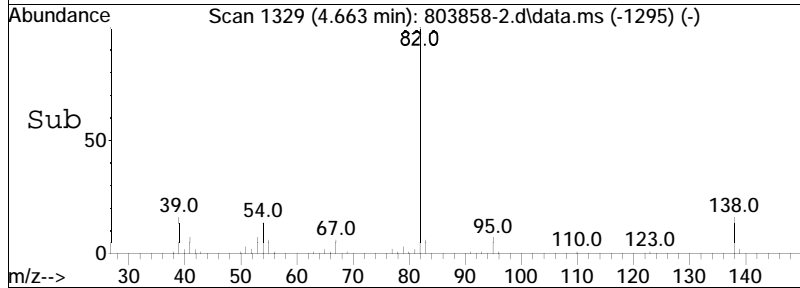
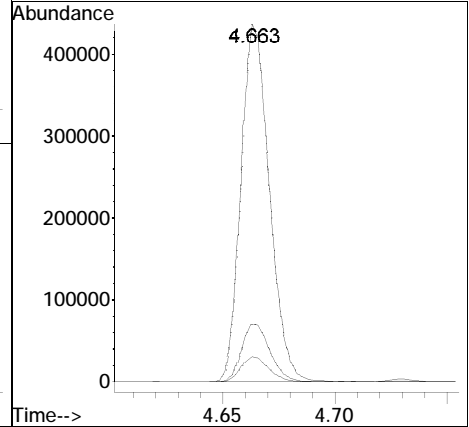
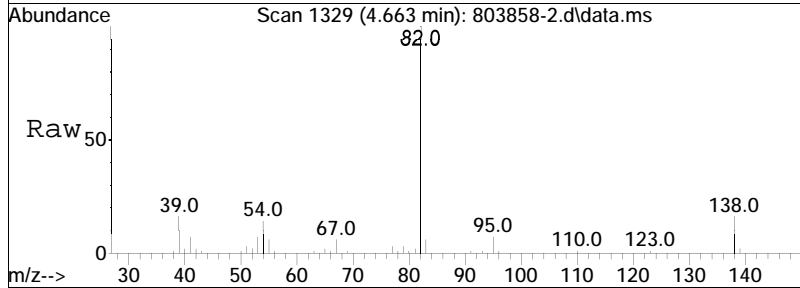
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
77	100		
123	47.6	35.0	52.4
65	13.7	11.5	17.3

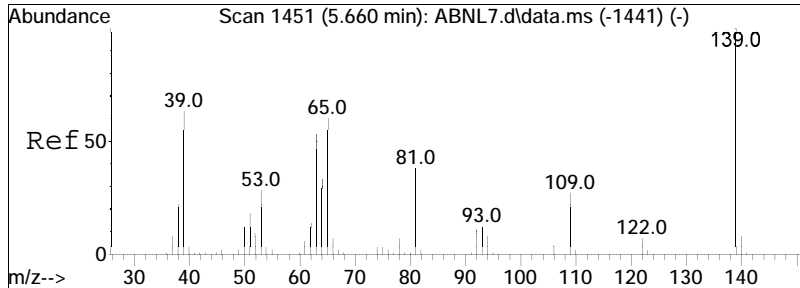




#21
 Isophorone
 Concen: 36.83 ug/ml
 RT: 4.663 min Scan# 1329
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

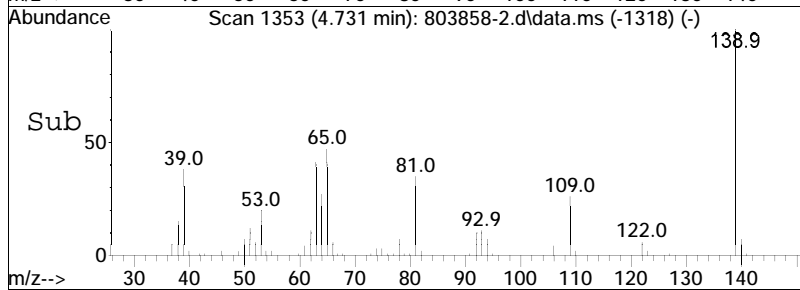
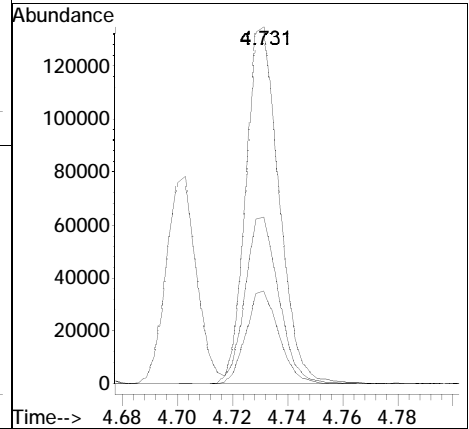
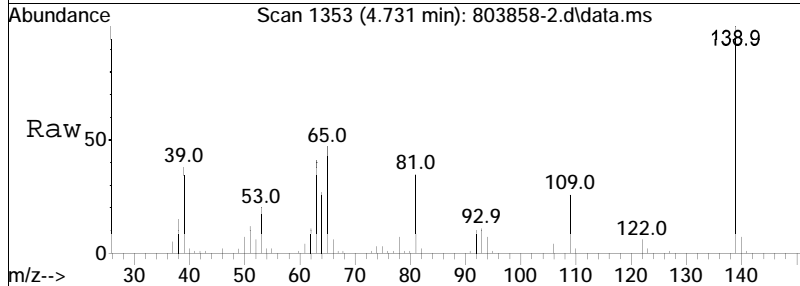
Tgt Ion:	82	Resp:	380464
Ion Ratio	100	Lower	Upper
138	16.1	12.8	19.2
95	6.9	5.5	8.3

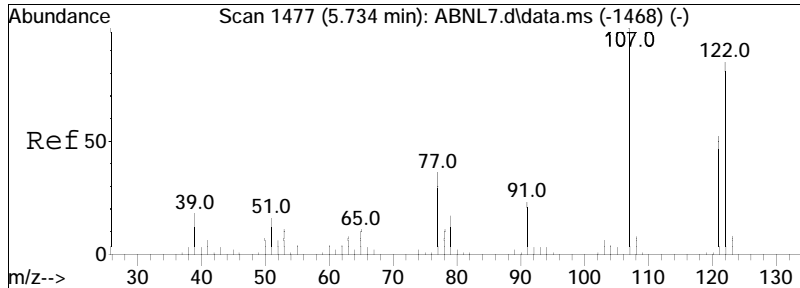




#22
 2-Nitrophenol
 Concen: 40.66 ug/ml
 RT: 4.731 min Scan# 1353
 Delta R.T. -0.000 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

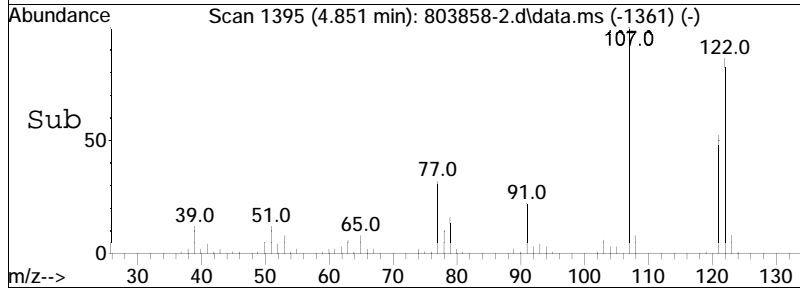
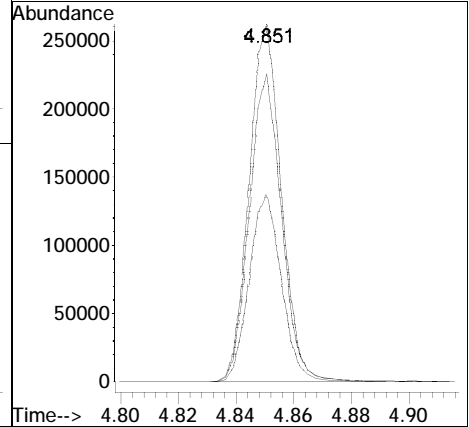
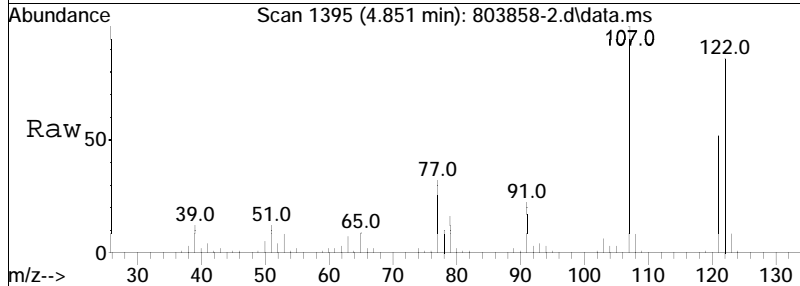
Tgt Ion	Resp	Lower	Upper
139	100		
109	25.9	24.8	37.2
65	46.7	45.5	68.3

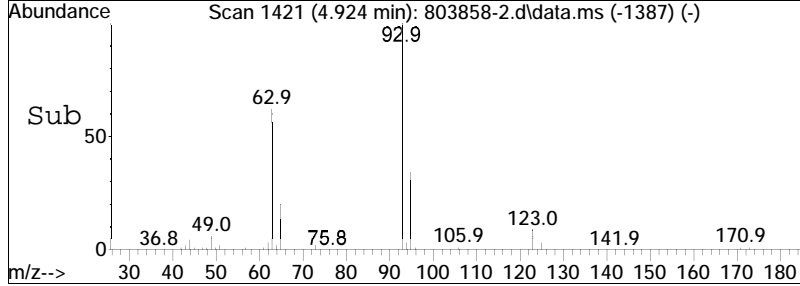
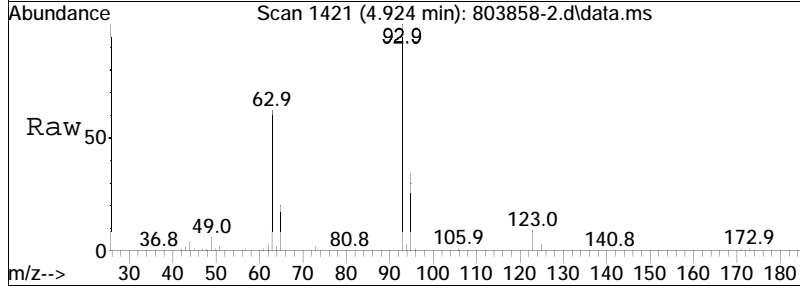
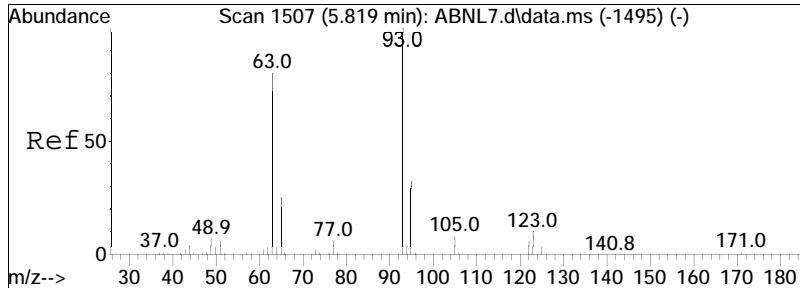




#23
 2,4-Dimethylphenol
 Concen: 34.44 ug/ml
 RT: 4.851 min Scan# 1395
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

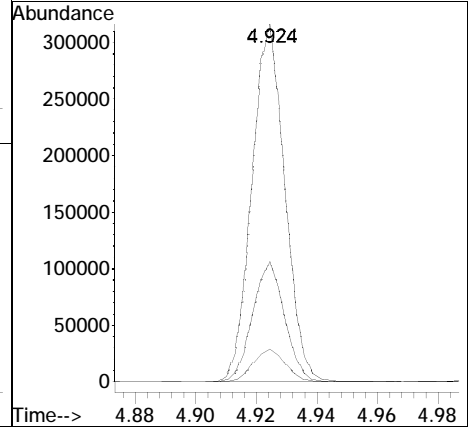
Tgt Ion	Resp	Lower	Upper
107	100		
121	52.5	39.7	59.5
122	85.9	66.8	100.2

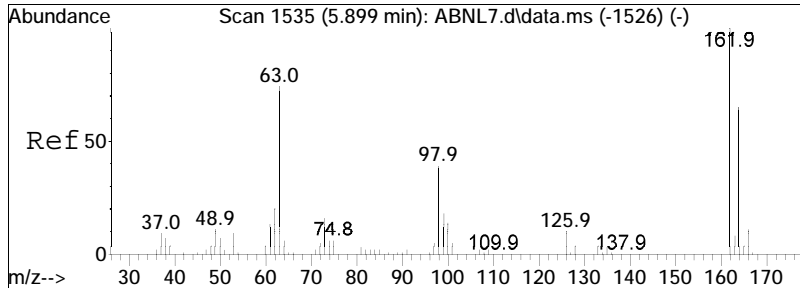




#24
 Bis(2-chloroethoxy)methane
 Concen: 35.26 ug/ml
 RT: 4.924 min Scan# 1421
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

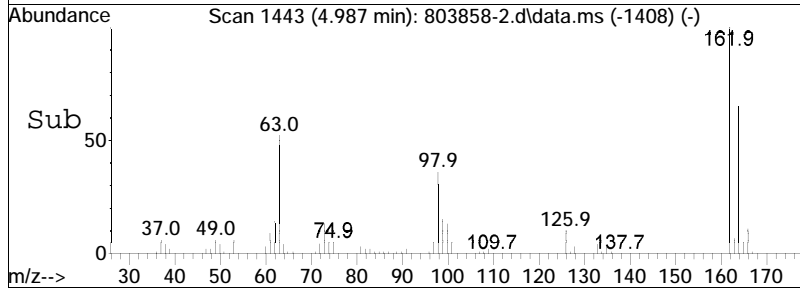
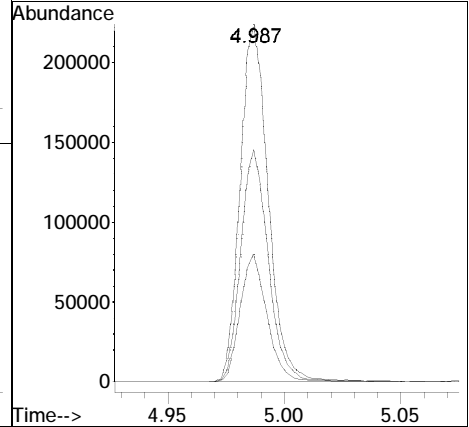
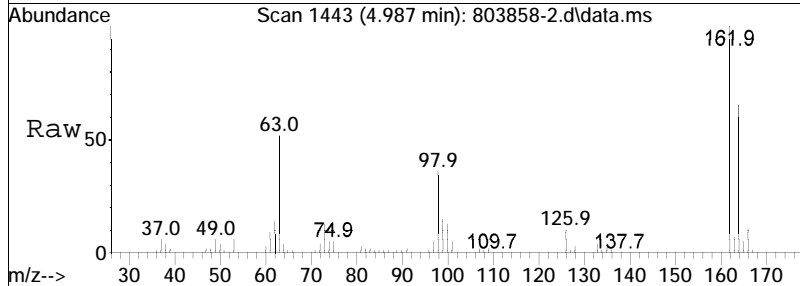
Tgt Ion:	93	Resp:	236577
Ion Ratio	100	Lower	Upper
93	100		
95	32.9	26.1	39.1
123	9.1	9.8	14.8#

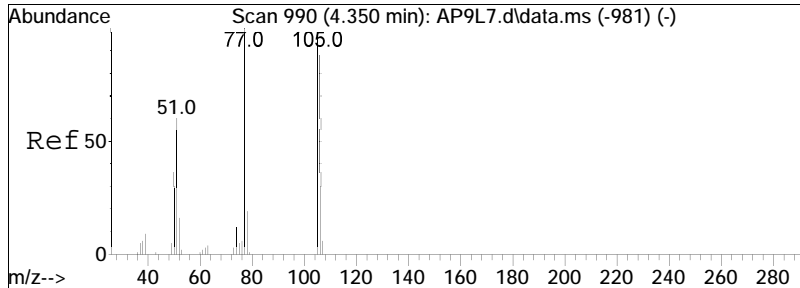




#25
 2,4-Dichlorophenol
 Concen: 35.82 ug/ml
 RT: 4.987 min Scan# 1443
 Delta R.T. -0.000 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

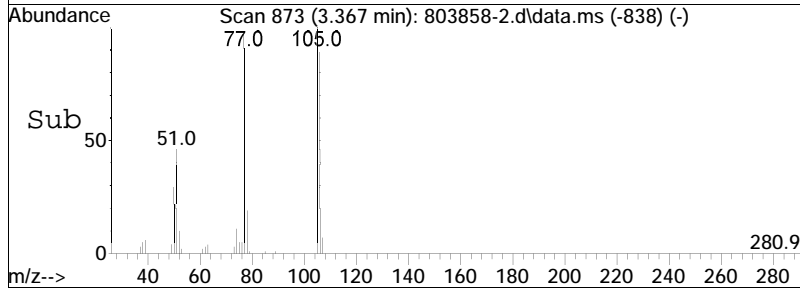
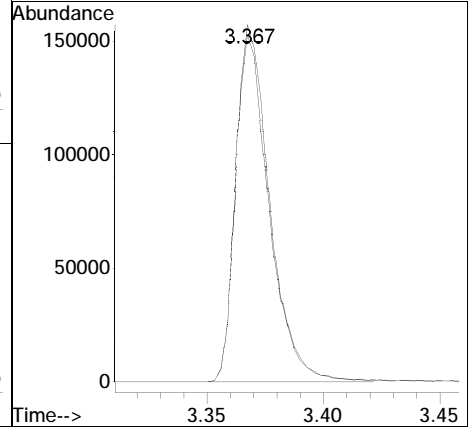
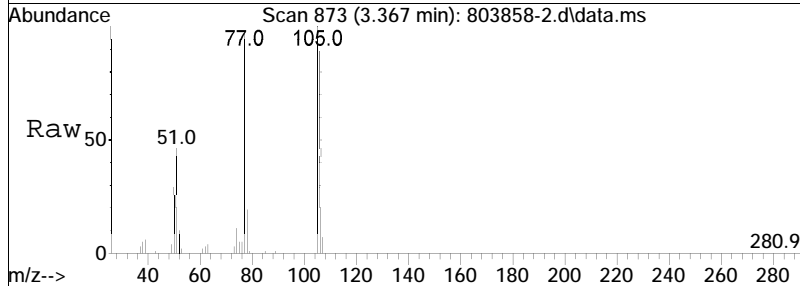
Tgt Ion:	162	Resp:	185725
Ion Ratio	Lower	Upper	
162	100		
164	64.3	50.4	75.6
98	34.5	31.6	47.4

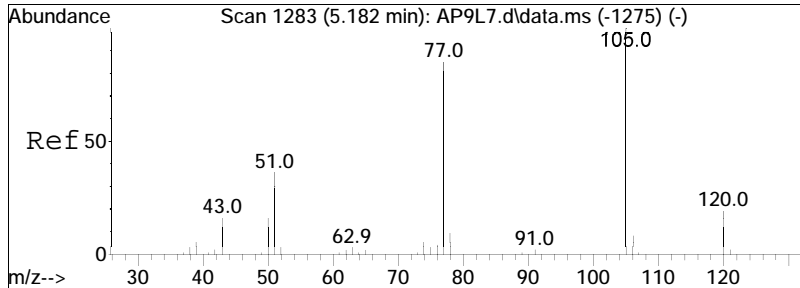




#28
 Benzaldehyde
 Concen: 37.67 ug/ml
 RT: 3.367 min Scan# 873
 Delta R.T. 0.000 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

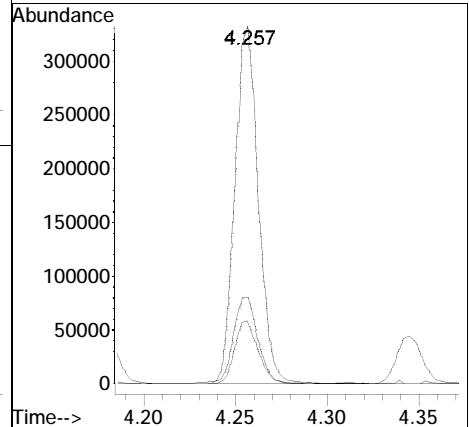
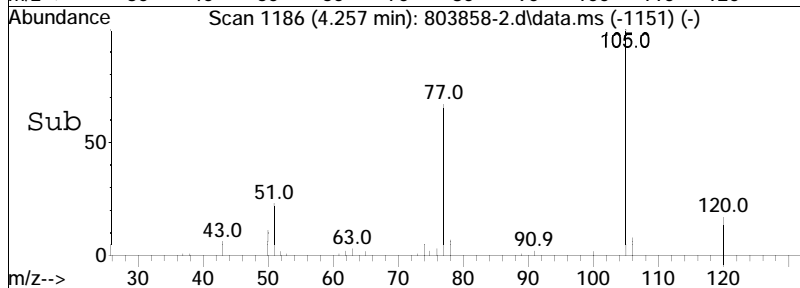
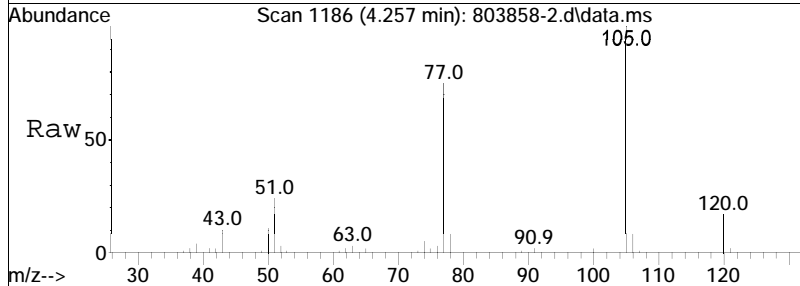
Tgt Ion	Resp	Lower	Upper
105	158764		
77	96.2	72.0	108.0

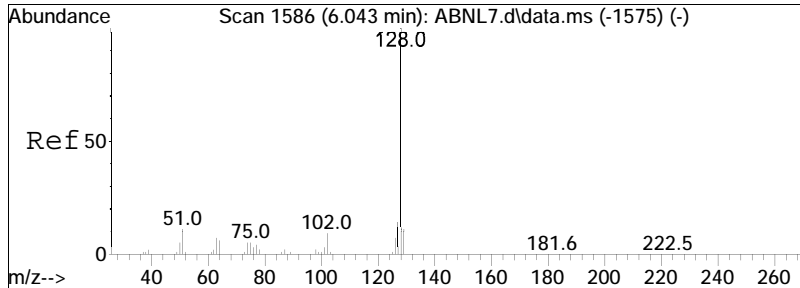




#29
 Acetophenone
 Concen: 34.20 ug/ml
 RT: 4.257 min Scan# 1186
 Delta R.T. 0.000 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

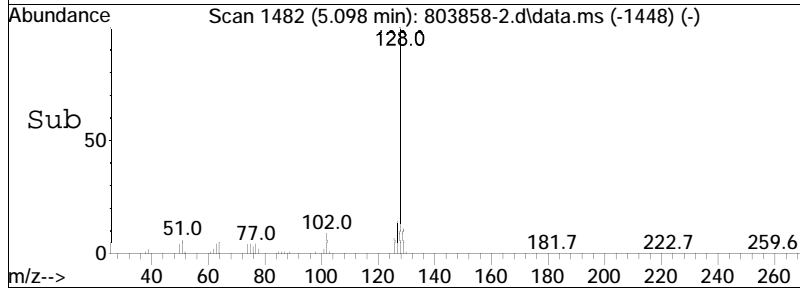
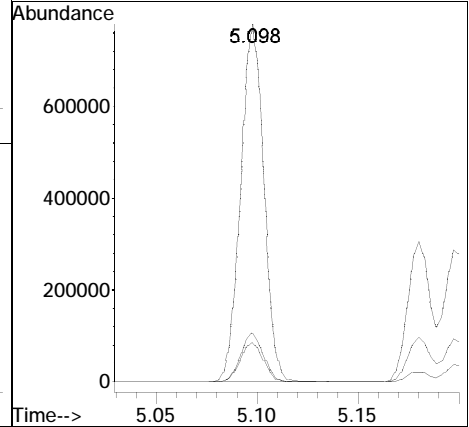
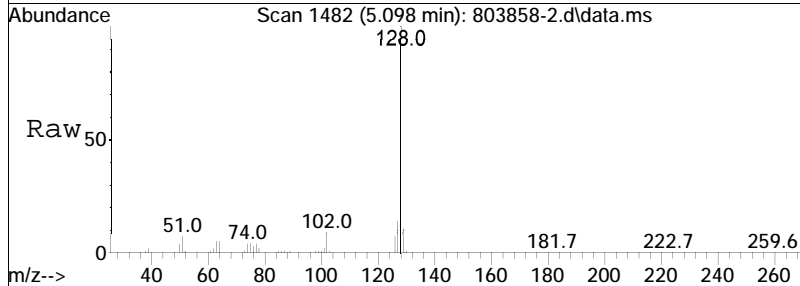
Tgt Ion	Resp	Lower	Upper
105	291712		
120	17.7	18.0	27.0#
51	25.4	23.8	35.6

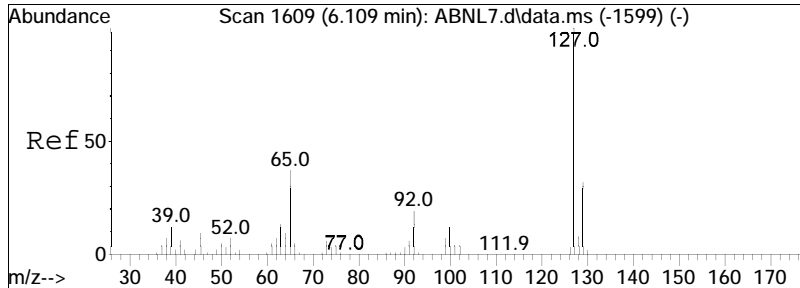




#36
 Naphthalene
 Concen: 30.22 ug/ml
 RT: 5.098 min Scan# 1482
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

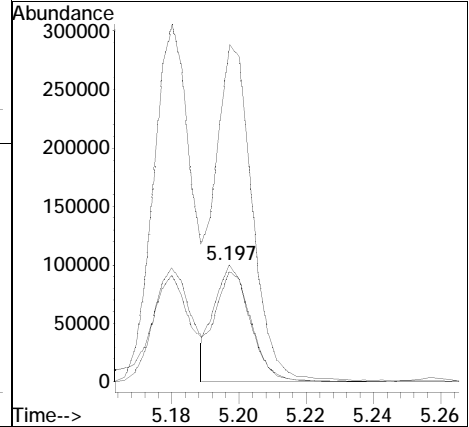
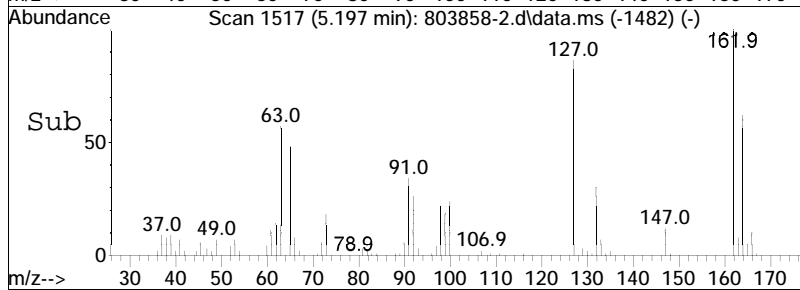
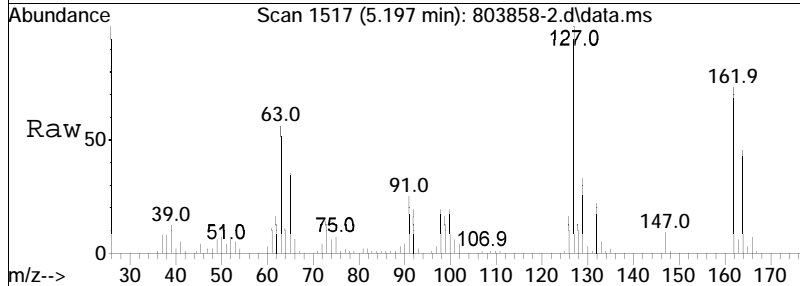
Tgt Ion	Resp	Lower	Upper
128	100		
129	11.1	8.7	13.1
127	13.6	10.7	16.1

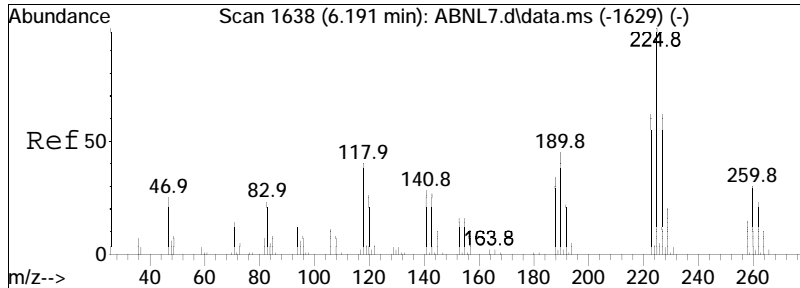




#38
 4-Chloroaniline
 Concen: 34.67 ug/ml
 RT: 5.197 min Scan# 1517
 Delta R.T. -0.000 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

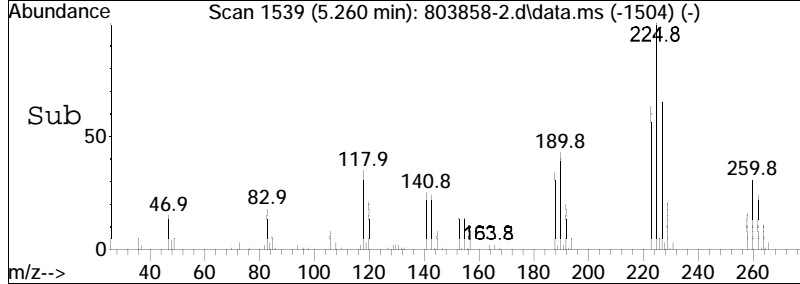
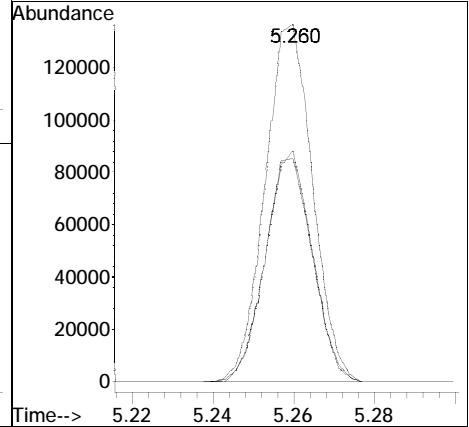
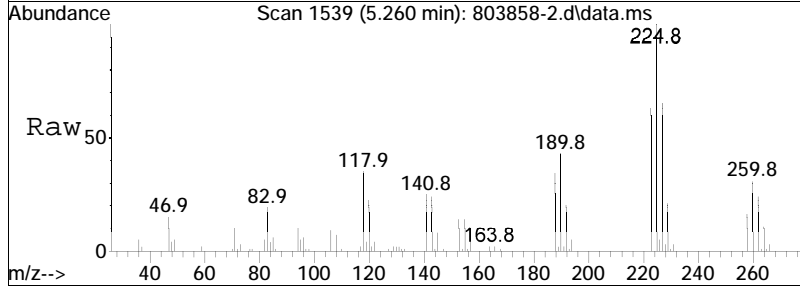
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
65	100		
127	301.7	233.2	349.8
129	97.3	74.6	111.8

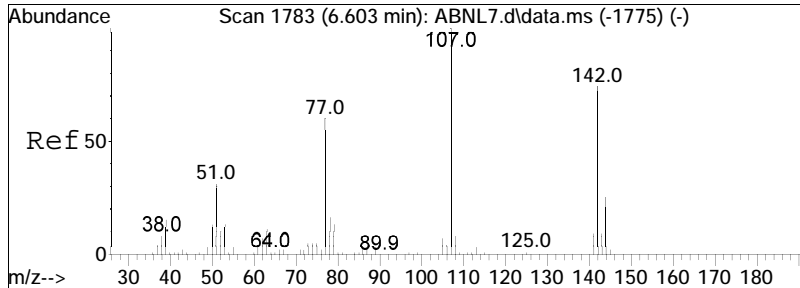




#39
 Hexachlorobutadiene
 Concen: 32.86 ug/ml
 RT: 5.260 min Scan# 1539
 Delta R.T. -0.000 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

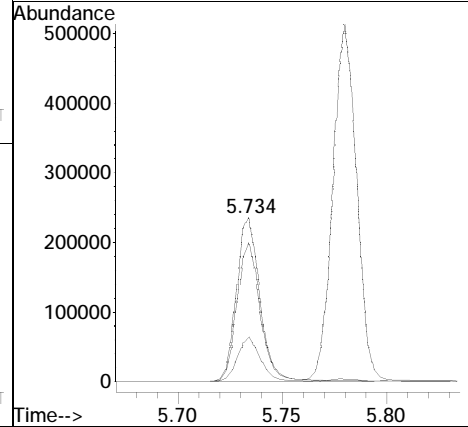
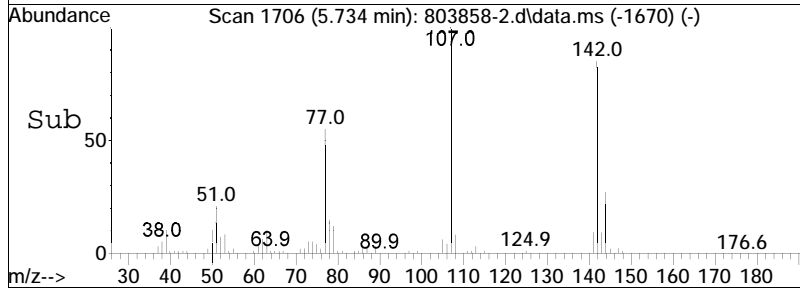
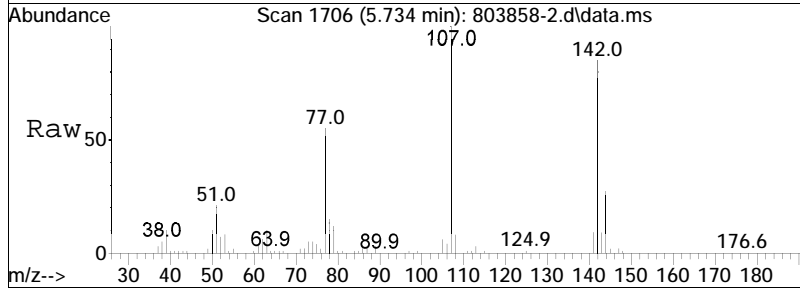
Tgt Ion	Resp	Lower	Upper
225	100		
223	62.7	49.4	74.0
227	63.6	50.8	76.2

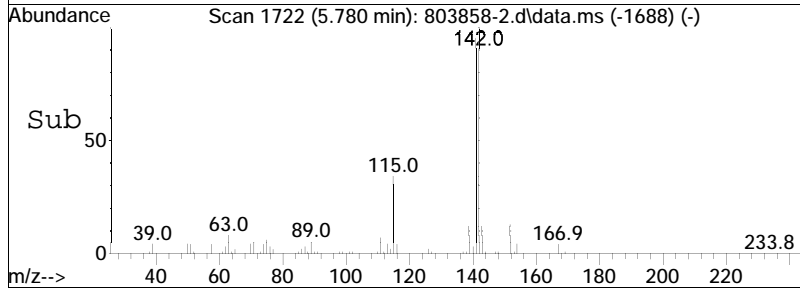
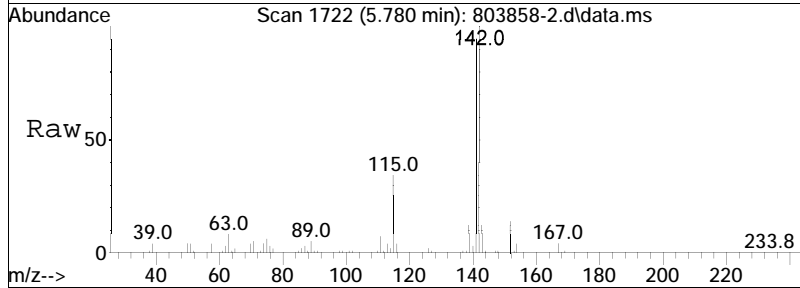
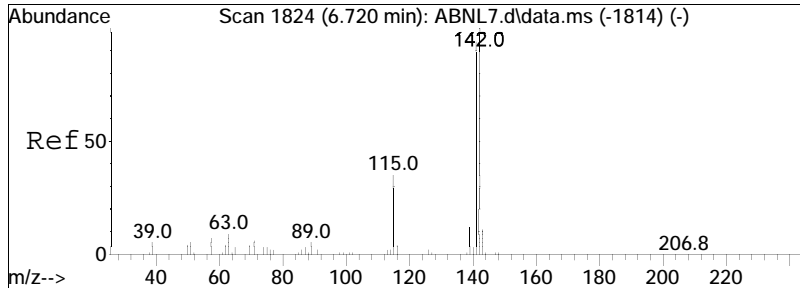




#40
 p-Chloro-m-cresol
 Concen: 36.15 ug/ml
 RT: 5.734 min Scan# 1706
 Delta R.T. 0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

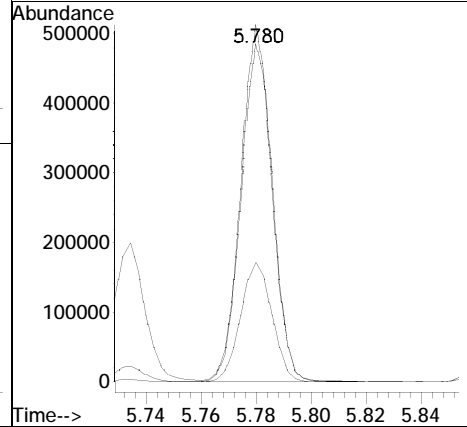
Tgt Ion	Resp	Lower	Upper
107	100		
144	26.2	19.6	29.4
142	83.3	62.2	93.4

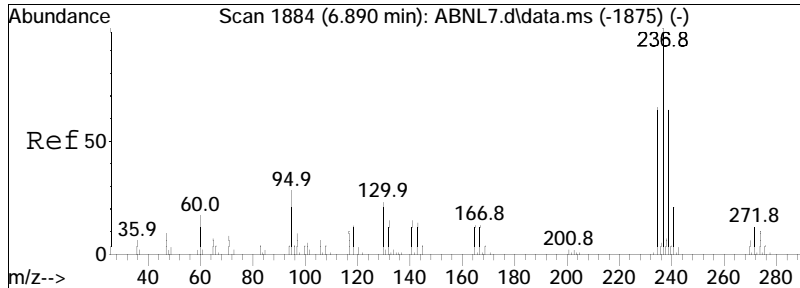




#41
 2-Methylnaphthalene
 Concen: 31.67 ug/ml
 RT: 5.780 min Scan# 1722
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

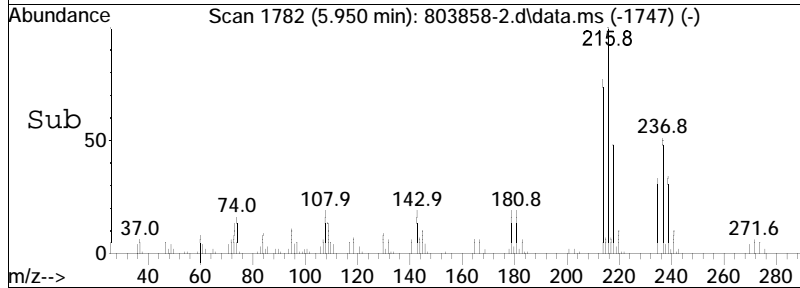
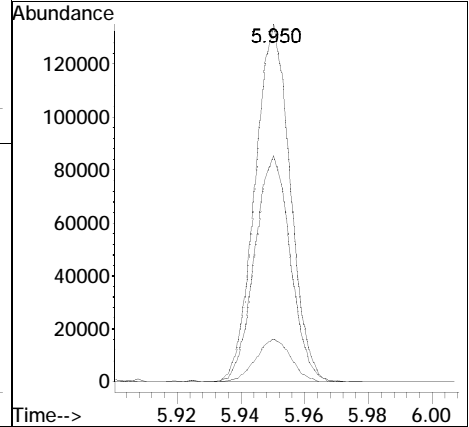
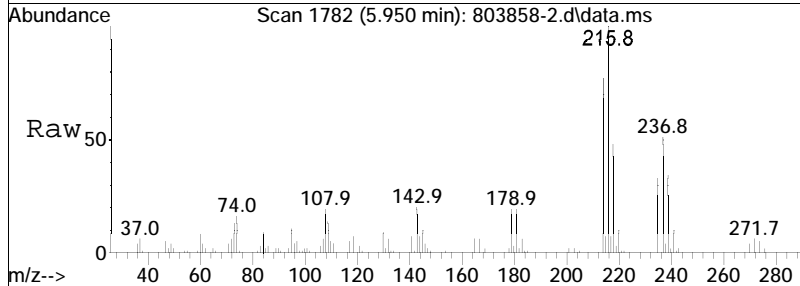
Tgt Ion	Resp	Lower	Upper
142	100		
141	94.8	71.8	107.8
115	33.9	29.1	43.7

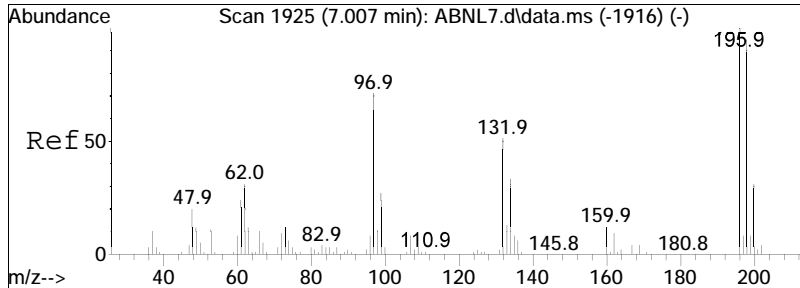




#43
 Hexachlorocyclopentadiene
 Concen: 27.89 ug/ml
 RT: 5.950 min Scan# 1782
 Delta R.T. -0.000 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

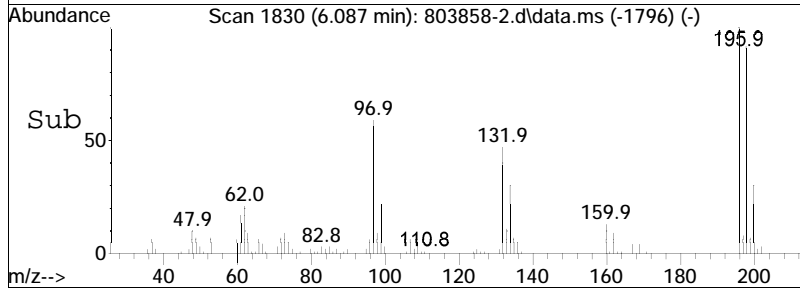
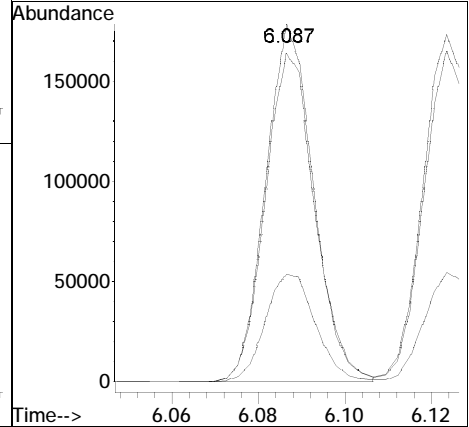
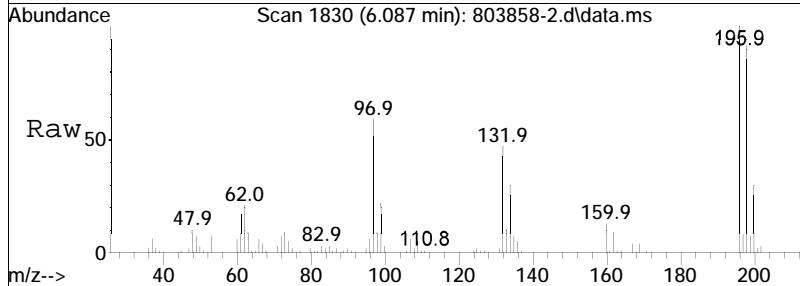
Tgt Ion	Resp	Lower	Upper
237	102436		
235	64.3	47.8	71.6
272	12.0	10.4	15.6

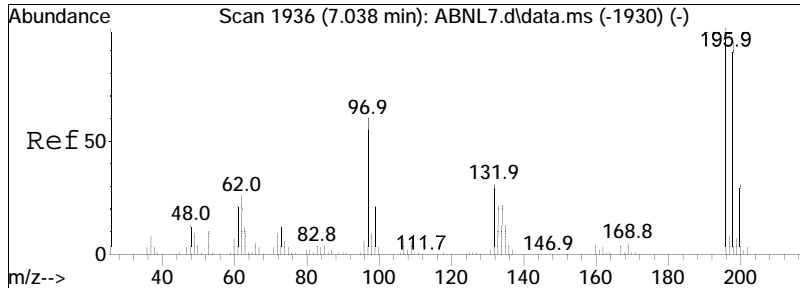




#44
 2,4,6-Trichlorophenol
 Concen: 37.95 ug/ml
 RT: 6.087 min Scan# 1830
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

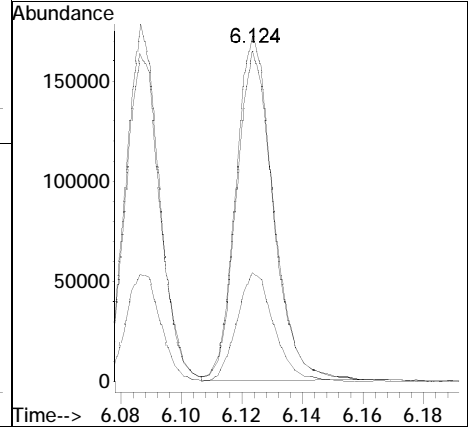
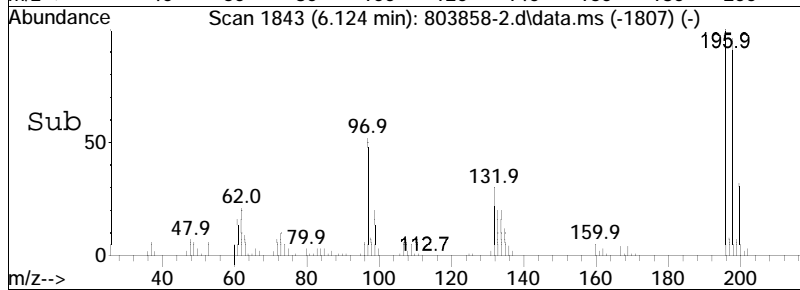
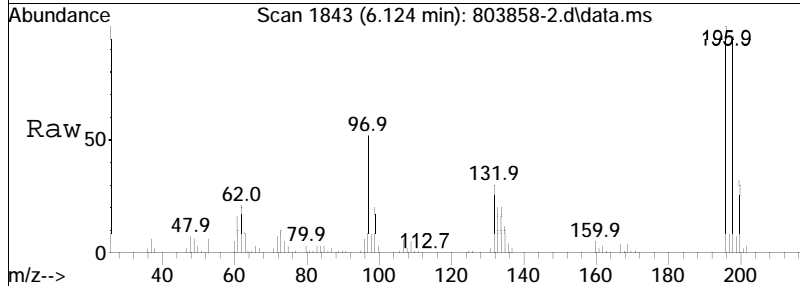
Tgt Ion	Ratio	Lower	Upper
196	100		
198	94.0	81.5	122.3
200	31.6	26.2	39.2

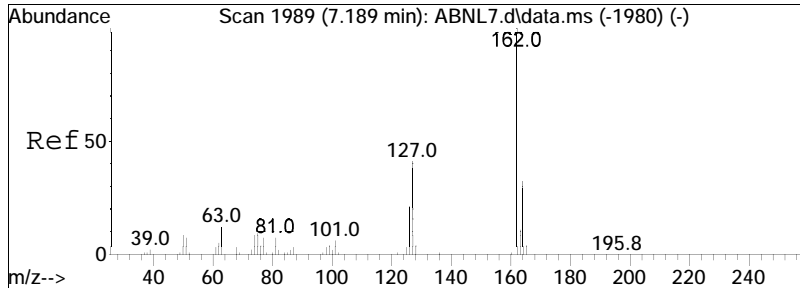




#45
 2,4,5-Trichlorophenol
 Concen: 36.01 ug/ml
 RT: 6.124 min Scan# 1843
 Delta R.T. 0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

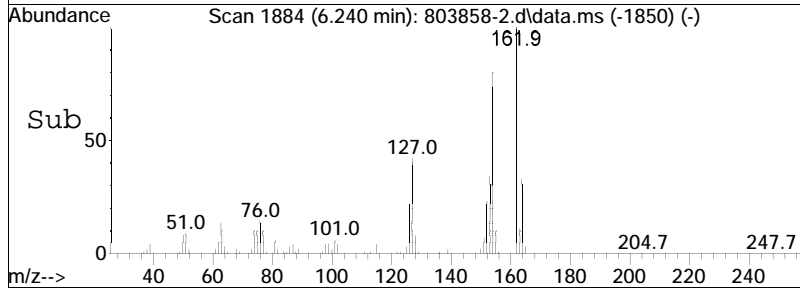
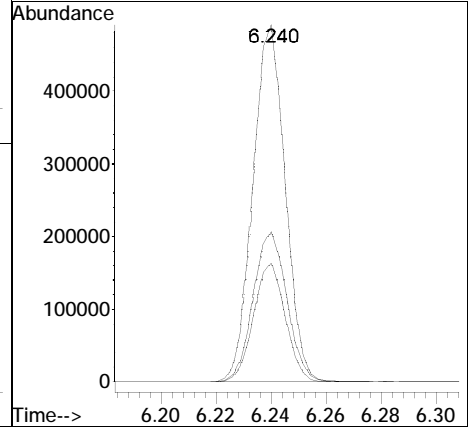
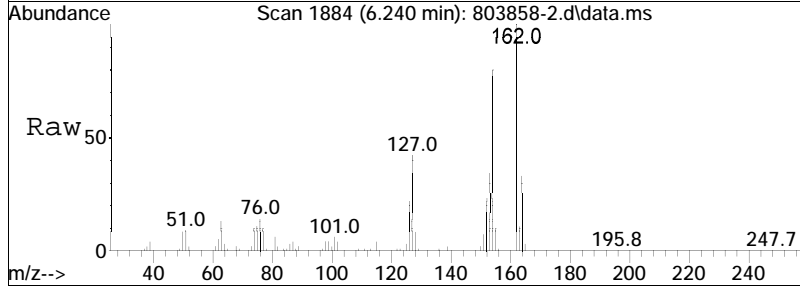
Tgt Ion	Resp	Lower	Upper
196	147725		
196	100		
200	31.8	25.5	38.3
198	95.7	79.2	118.8

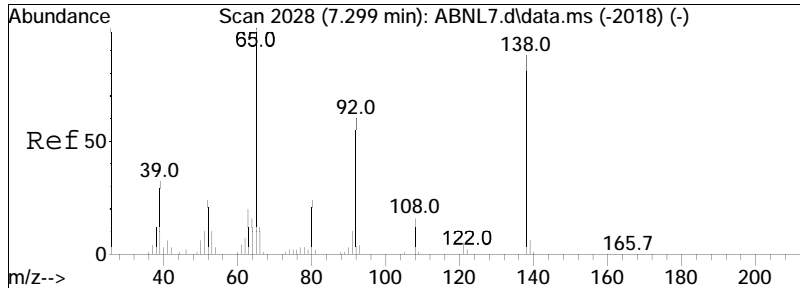




#47
 2-Chloronaphthalene
 Concen: 31.74 ug/ml
 RT: 6.240 min Scan# 1884
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

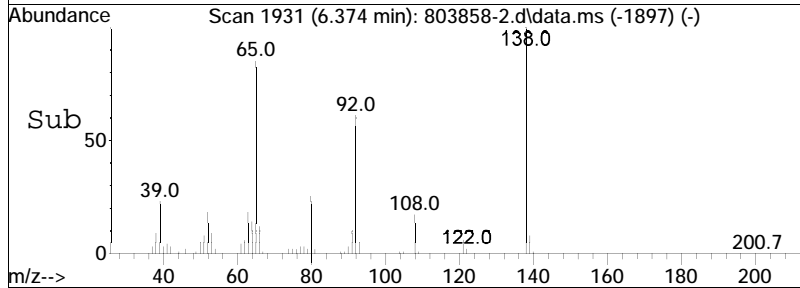
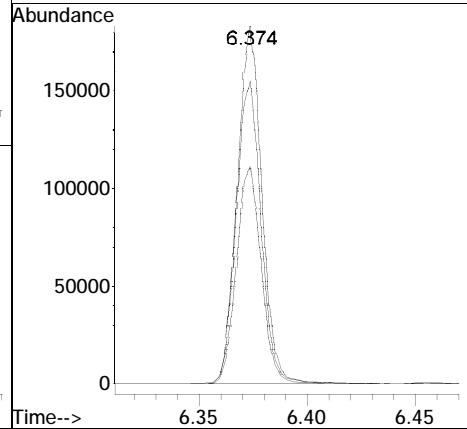
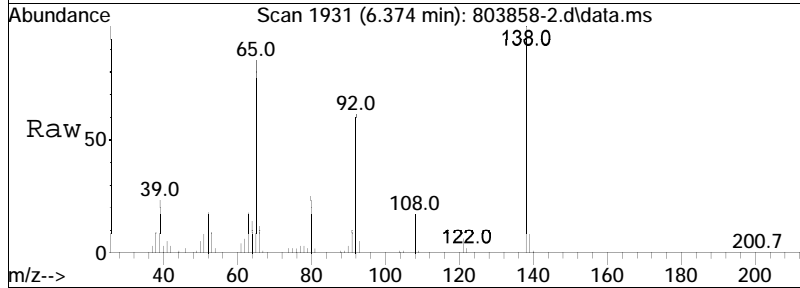
Tgt Ion	Ratio	Lower	Upper
162	100		
127	43.9	33.6	50.4
164	32.8	25.8	38.8

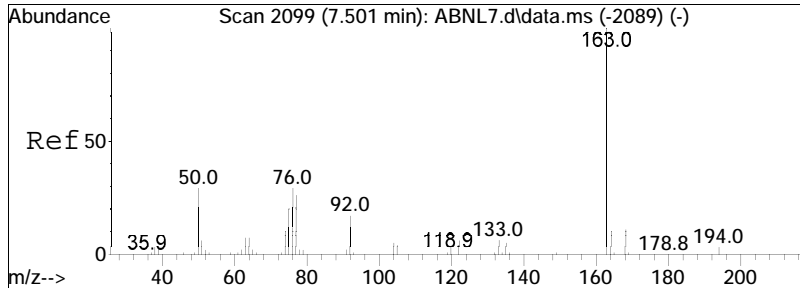




#48
 2-Nitroaniline
 Concen: 36.78 ug/ml
 RT: 6.374 min Scan# 1931
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

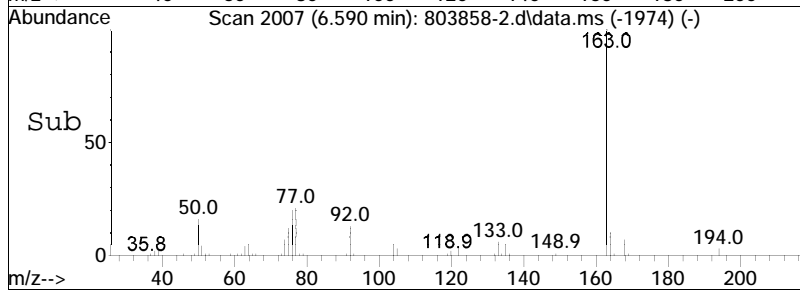
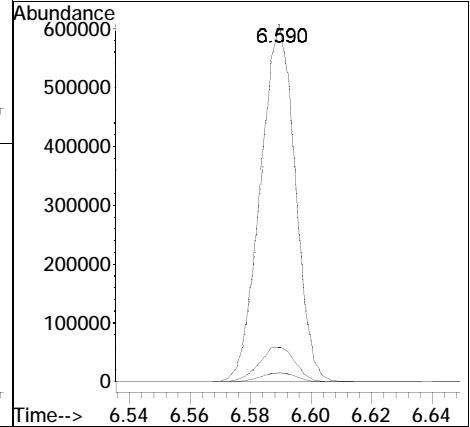
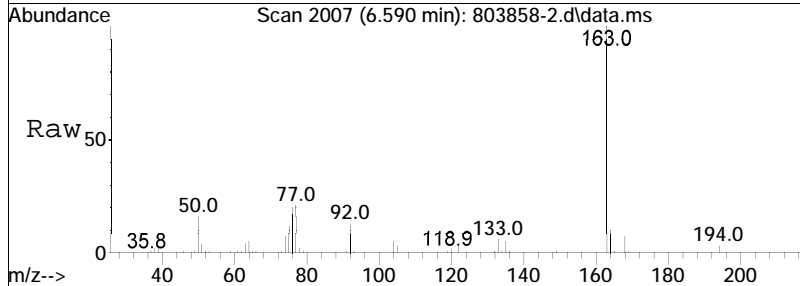
Tgt Ion	Resp	Lower	Upper
138	144206		
92	60.8	54.2	81.2
65	85.5	82.8	124.2

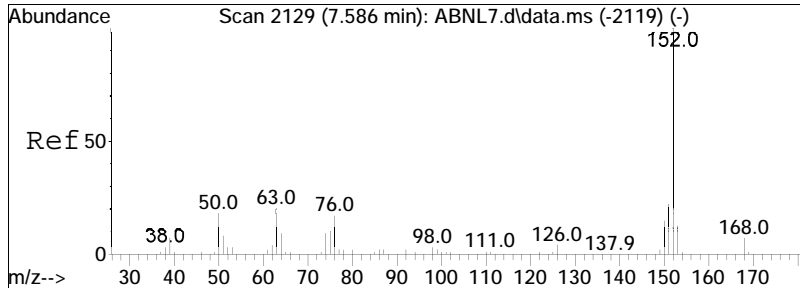




#51
 Dimethyl phthalate
 Concen: 33.33 ug/ml
 RT: 6.590 min Scan# 2007
 Delta R.T. -0.006 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

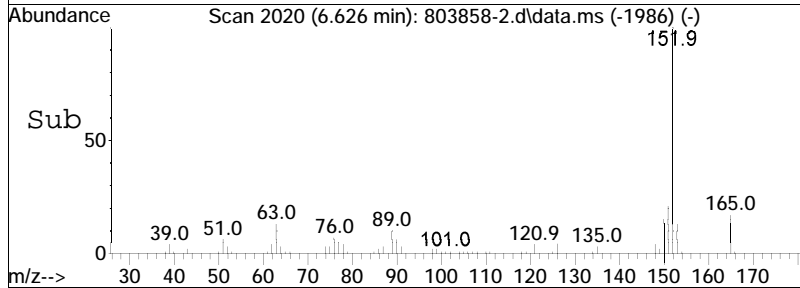
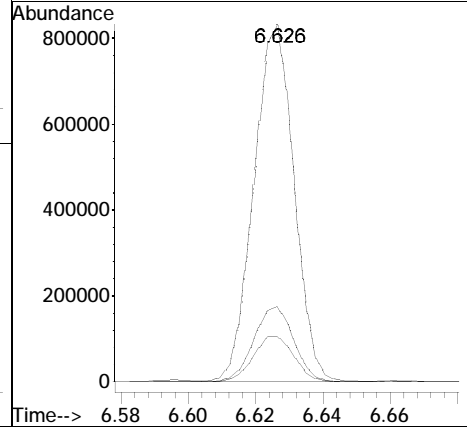
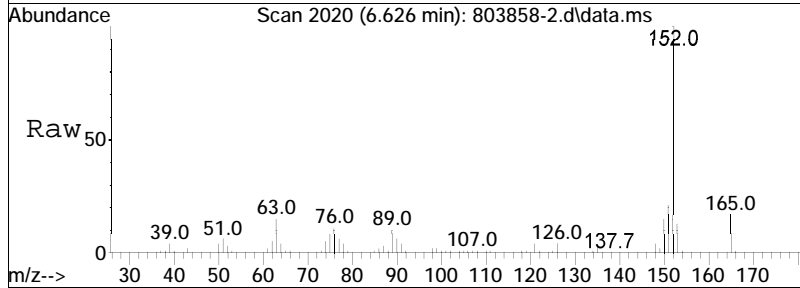
Tgt Ion	Ratio	Lower	Upper
163	100		
194	2.7	2.6	4.0
164	10.2	8.2	12.4

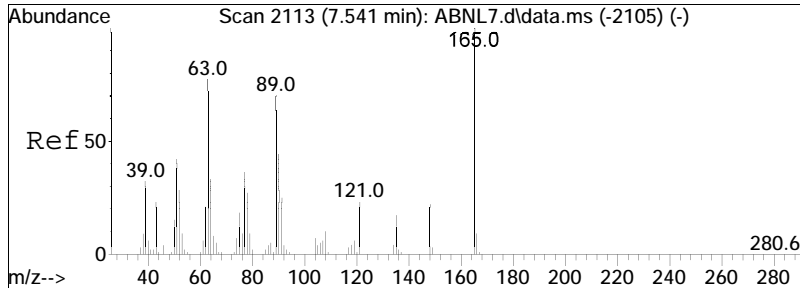




#52
 Acenaphthylene
 Concen: 35.53 ug/ml
 RT: 6.626 min Scan# 2020
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

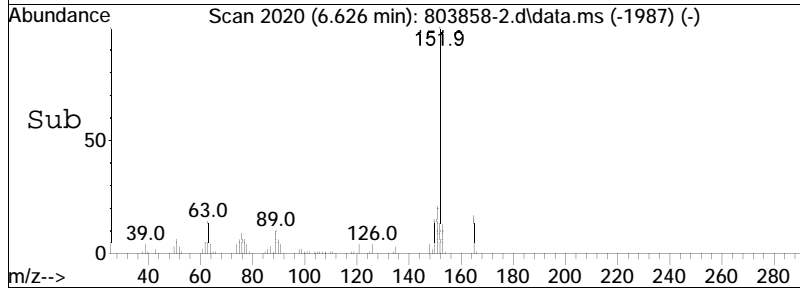
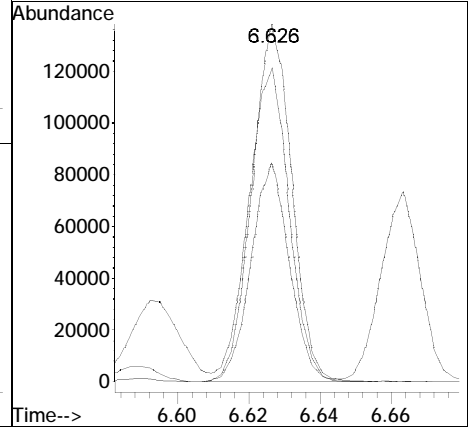
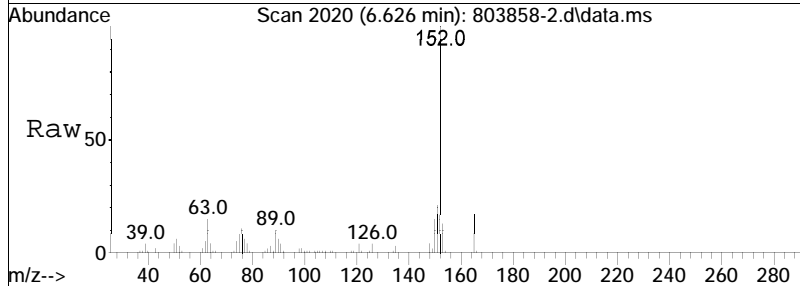
Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.4	24.6
153	13.0	11.0	16.6

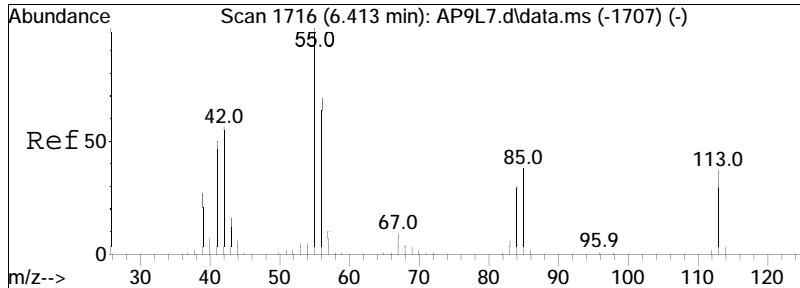




#53
 2,6-Dinitrotoluene
 Concen: 35.88 ug/ml
 RT: 6.626 min Scan# 2020
 Delta R.T. -0.006 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

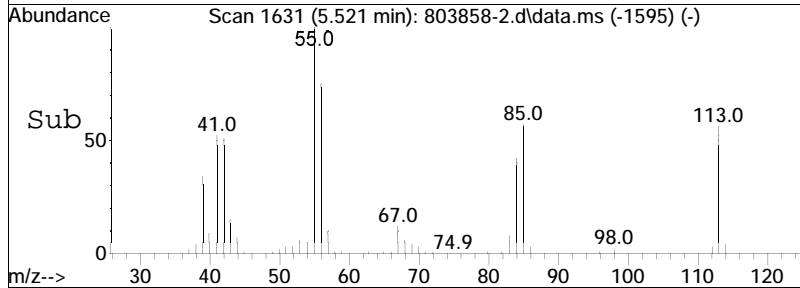
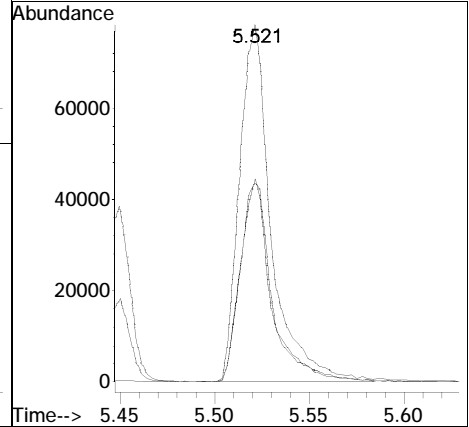
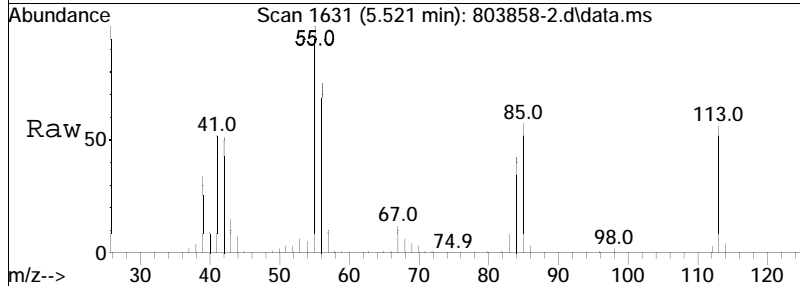
Tgt Ion	Resp	Lower	Upper
165	106307		
89	59.7	50.4	75.6
63	89.8	56.9	85.3#

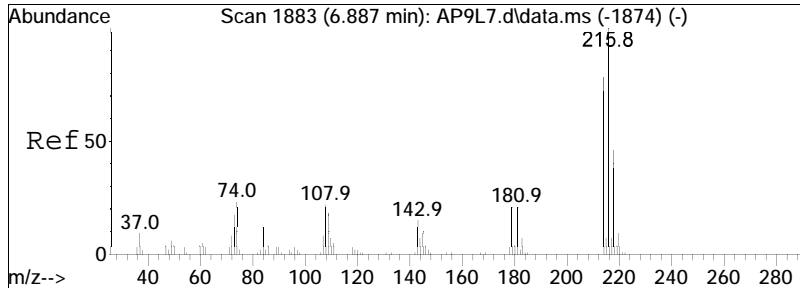




#60
 Caprolactam
 Concen: 35.84 ug/ml
 RT: 5.521 min Scan# 1631
 Delta R.T. 0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

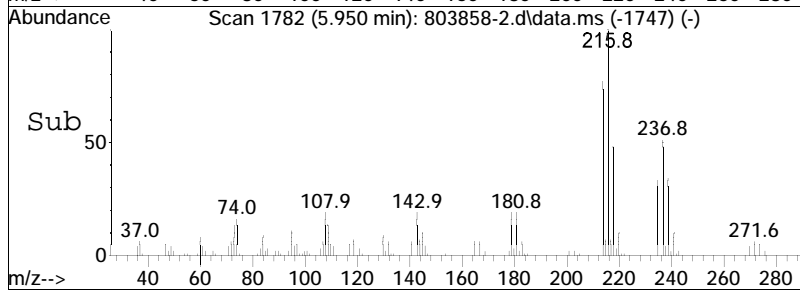
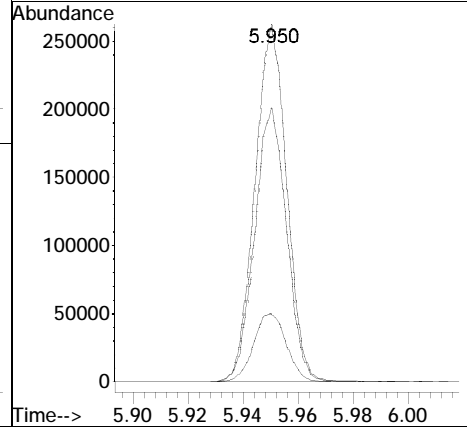
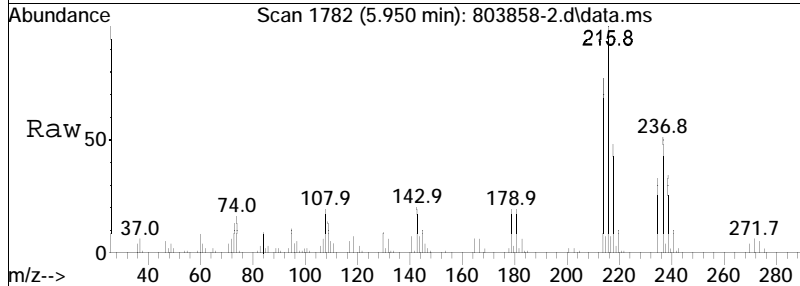
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
55	100		
85	55.0	32.6	48.8#
113	57.4	44.6	66.8

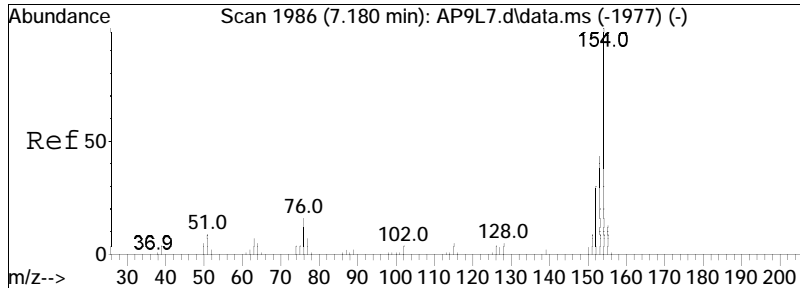




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 35.31 ug/ml
 RT: 5.950 min Scan# 1782
 Delta R.T. 0.000 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

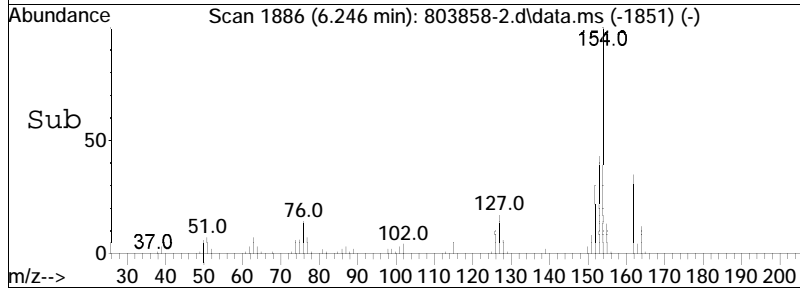
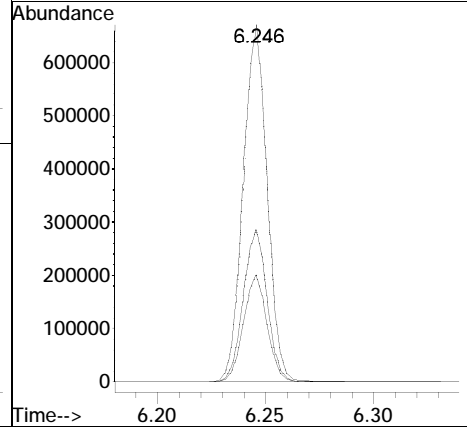
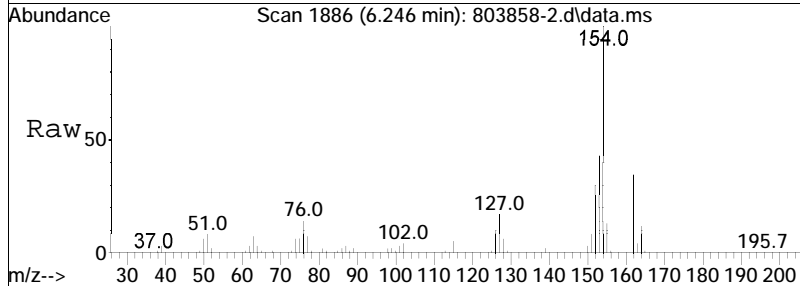
Tgt Ion	Ratio	Lower	Upper
216	100		
214	77.1	63.0	94.6
179	19.9	17.4	26.2

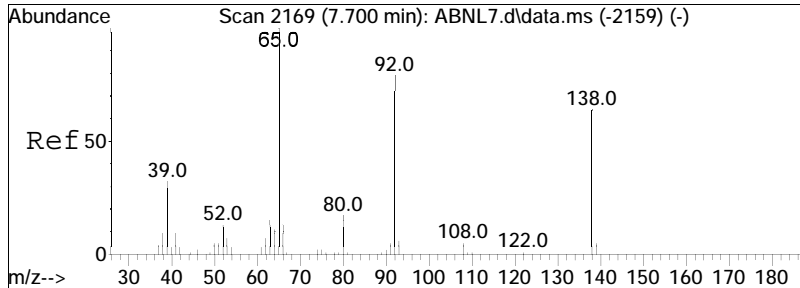




#62
 Biphenyl
 Concen: 32.00 ug/ml
 RT: 6.246 min Scan# 1886
 Delta R.T. 0.000 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

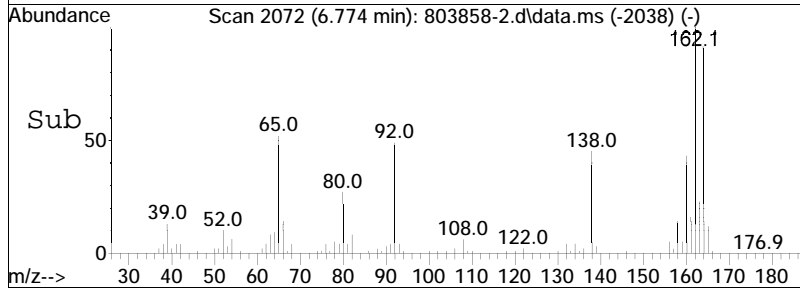
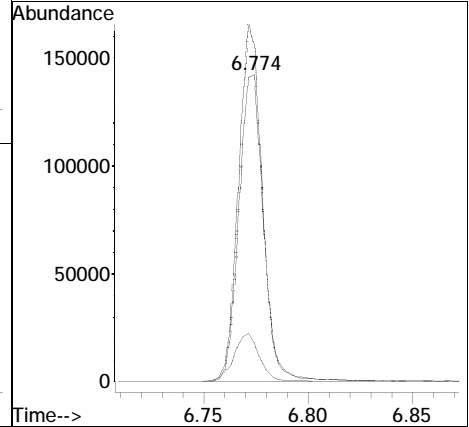
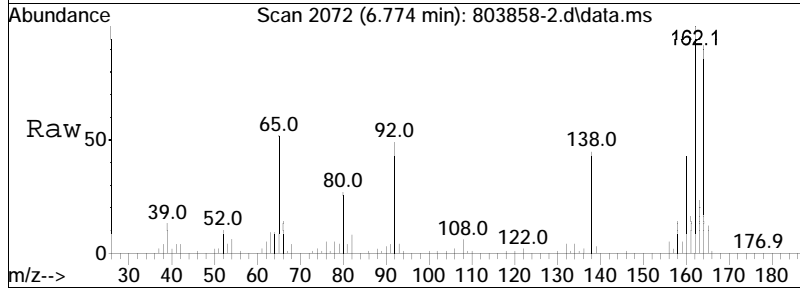
Tgt Ion	Resp	Lower	Upper
154	100		
153	42.6	33.5	50.3
152	29.8	22.6	34.0

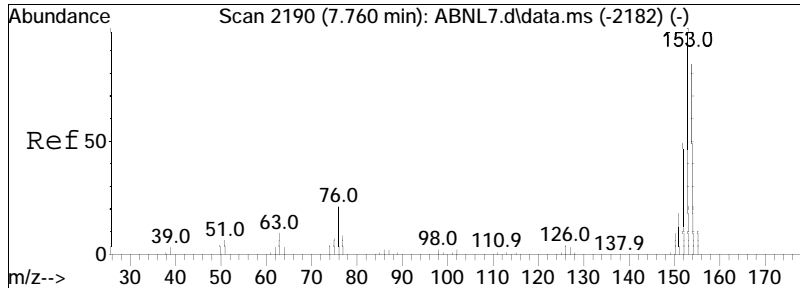




#64
 3-Nitroaniline
 Concen: 30.12 ug/ml
 RT: 6.774 min Scan# 2072
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

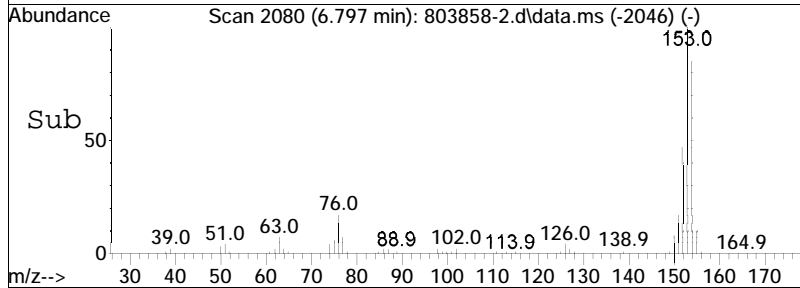
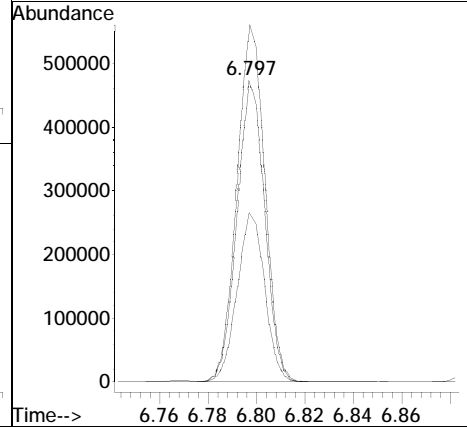
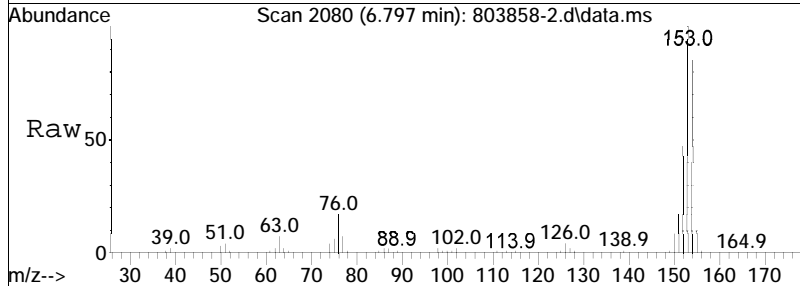
Tgt Ion	Resp	Lower	Upper
138	114936		
92	112.9	95.4	143.2
108	16.4	8.6	12.8#

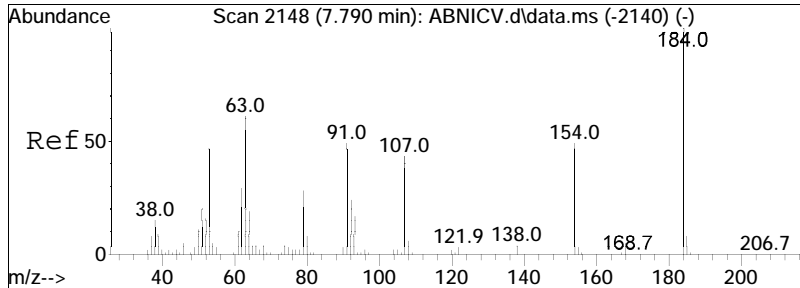




#65
 Acenaphthene
 Concen: 29.83 ug/ml
 RT: 6.797 min Scan# 2080
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

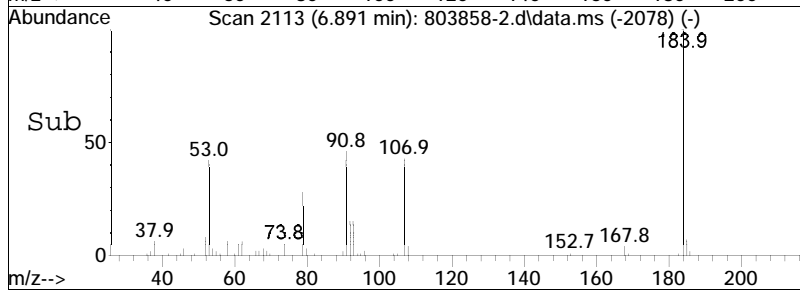
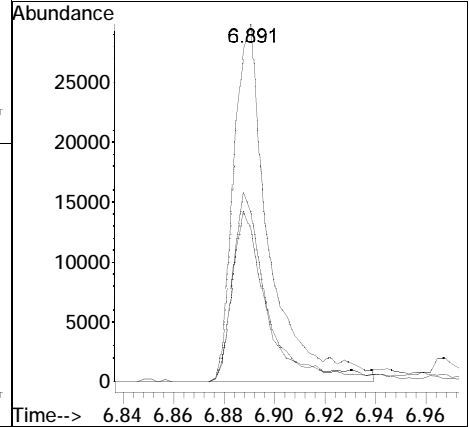
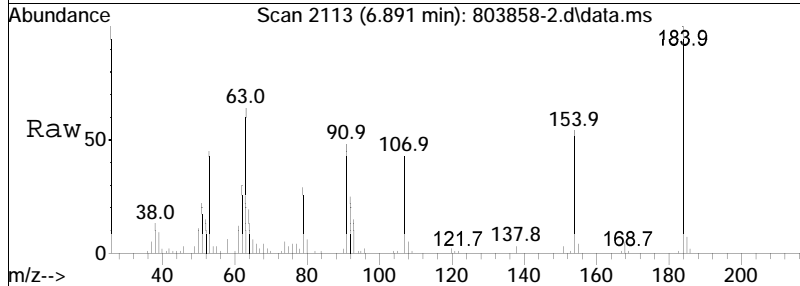
Tgt Ion	Resp	Lower	Upper
154	375137		
153	119.6	91.3	136.9
152	56.1	41.0	61.4

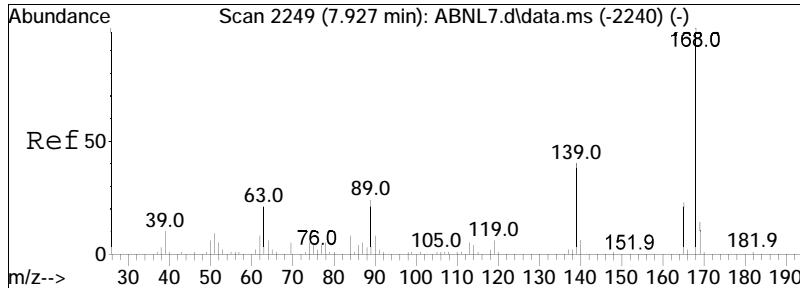




#66
 2,4-Dinitrophenol
 Concen: 19.75 ug/ml
 RT: 6.891 min Scan# 2113
 Delta R.T. -0.000 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

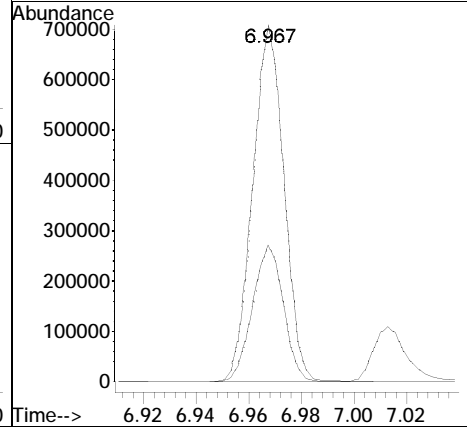
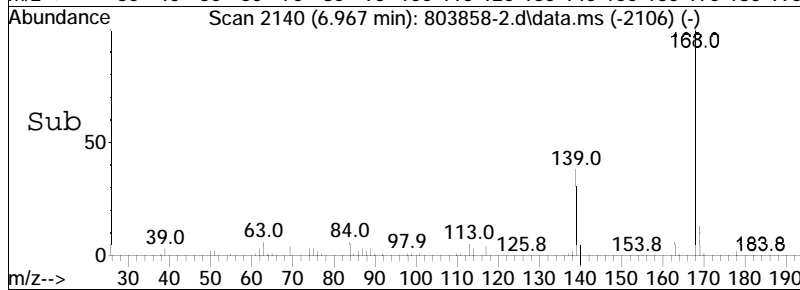
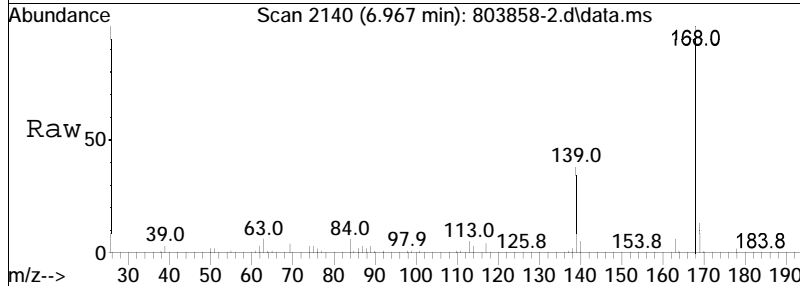
Tgt Ion	Resp	Lower	Upper
184	100		
107	47.1	41.8	62.6
91	48.9	46.1	69.1

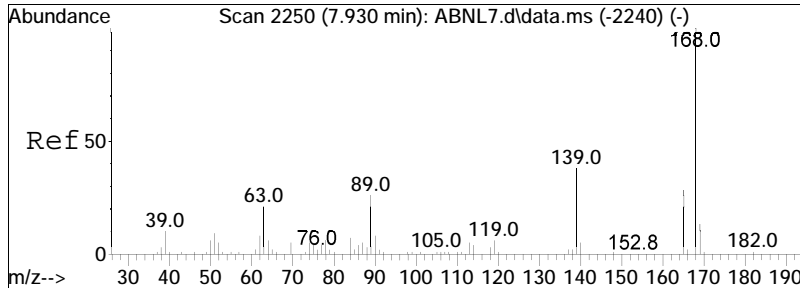




#67
 Dibenzofuran
 Concen: 29.78 ug/ml
 RT: 6.967 min Scan# 2140
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

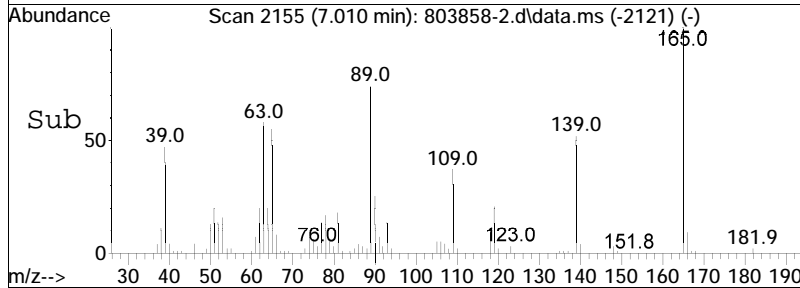
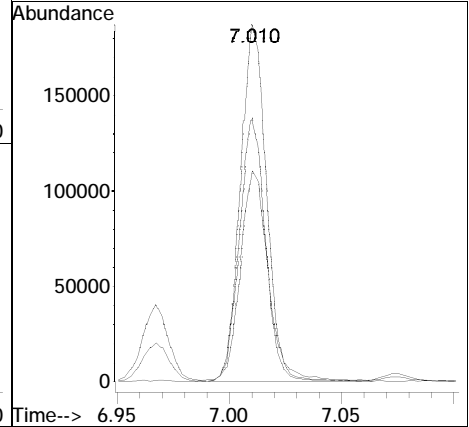
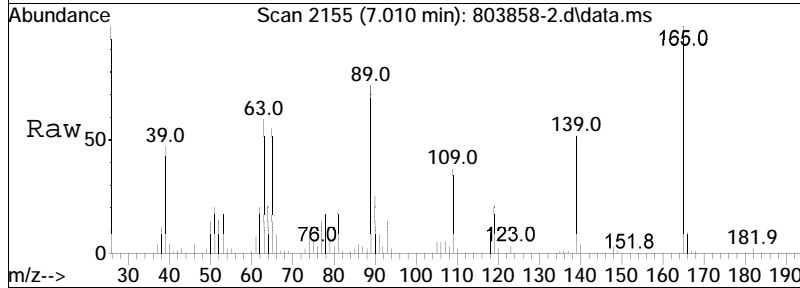
Tgt Ion	Resp	Lower	Upper
168	100		
139	38.0	33.2	49.8

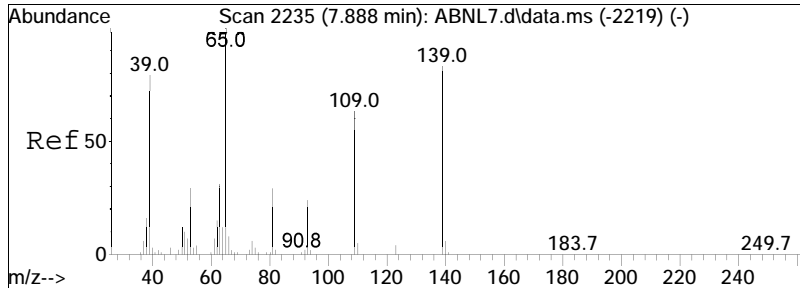




#68
 2,4-Dinitrotoluene
 Concen: 36.15 ug/ml
 RT: 7.010 min Scan# 2155
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

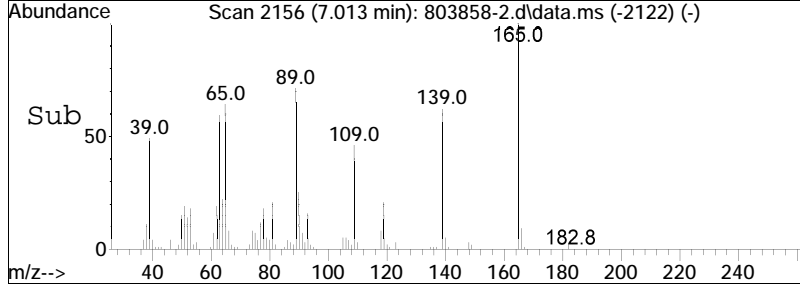
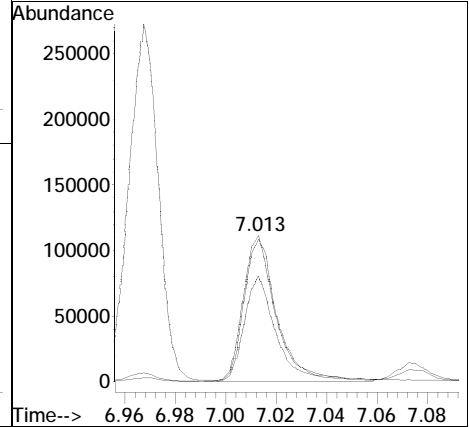
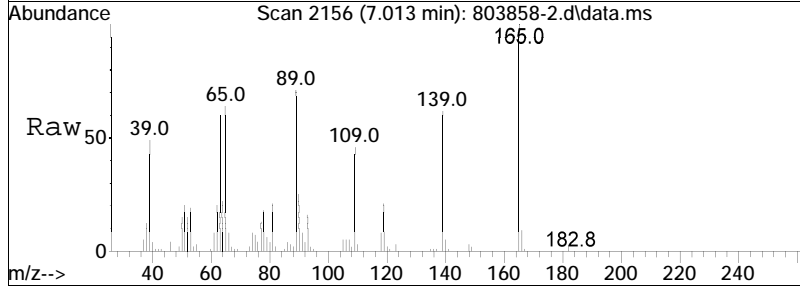
Tgt Ion	Resp	Lower	Upper
165	100		
89	73.2	75.7	113.5#
63	62.8	62.6	94.0

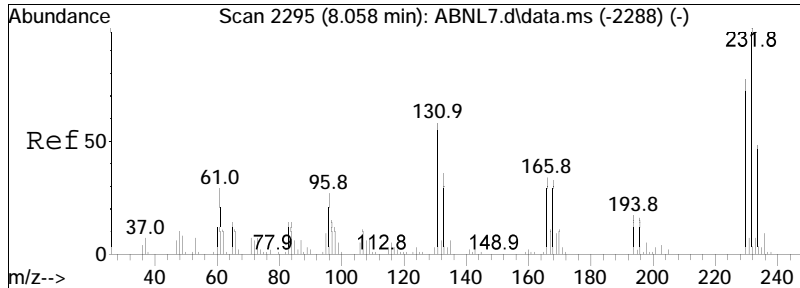




#69
 4-Nitrophenol
 Concen: 40.68 ug/ml
 RT: 7.013 min Scan# 2156
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

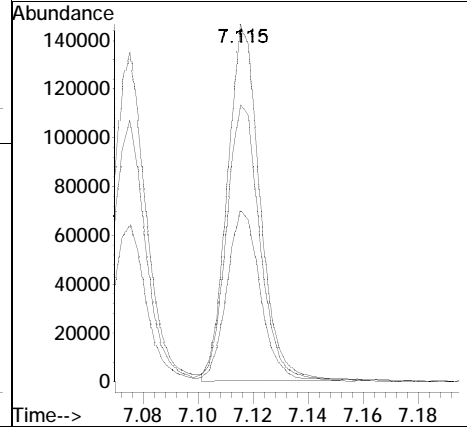
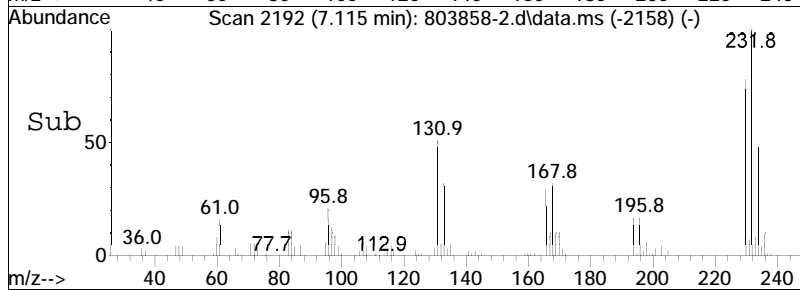
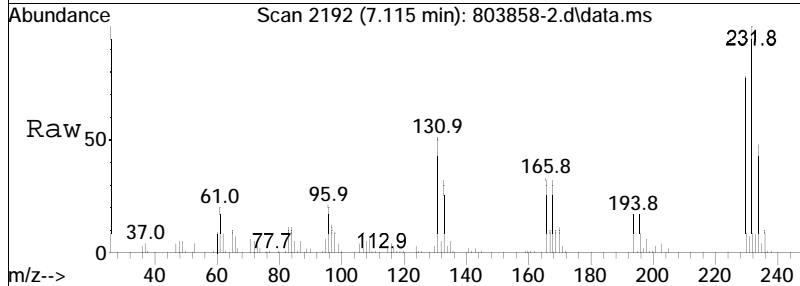
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
65	100		
109	70.2	55.4	83.2
139	98.3	72.9	109.3

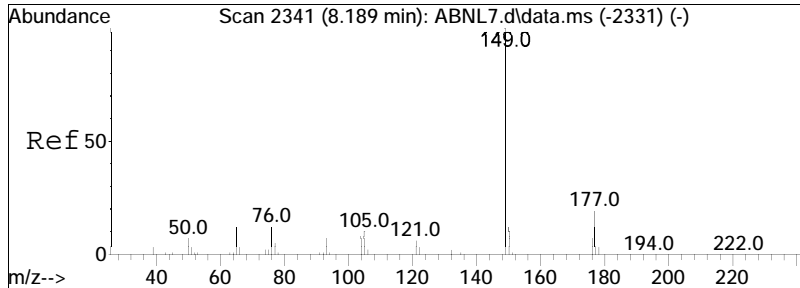




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 34.14 ug/ml
 RT: 7.115 min Scan# 2192
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

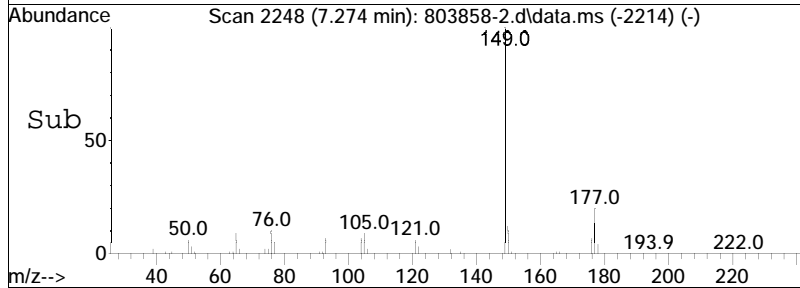
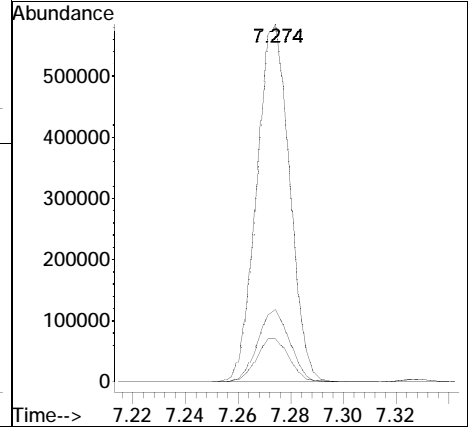
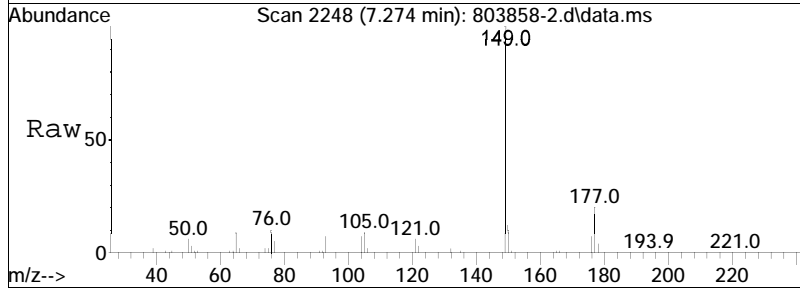
Tgt Ion	Resp	Lower	Upper
232	100		
230	79.8	63.7	95.5
234	50.4	38.4	57.6

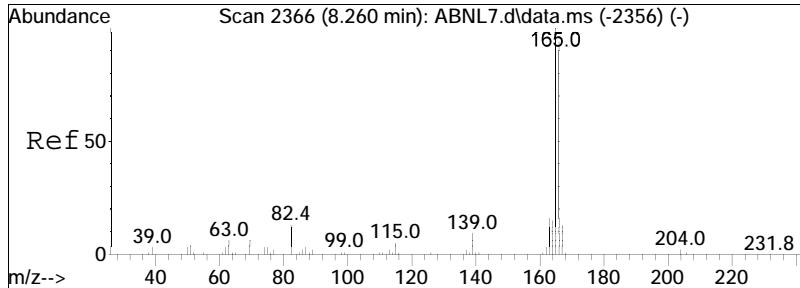




#72
 Diethyl phthalate
 Concen: 33.13 ug/ml
 RT: 7.274 min Scan# 2248
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

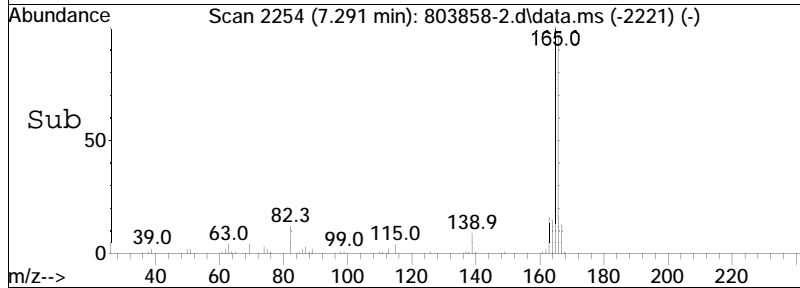
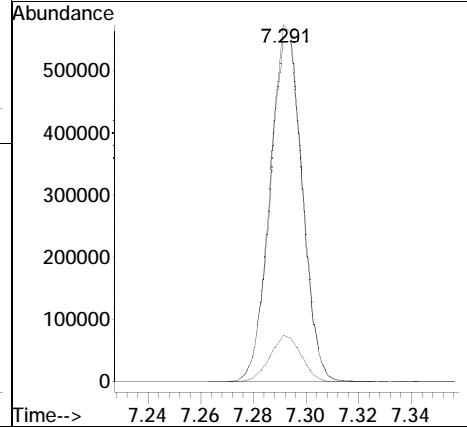
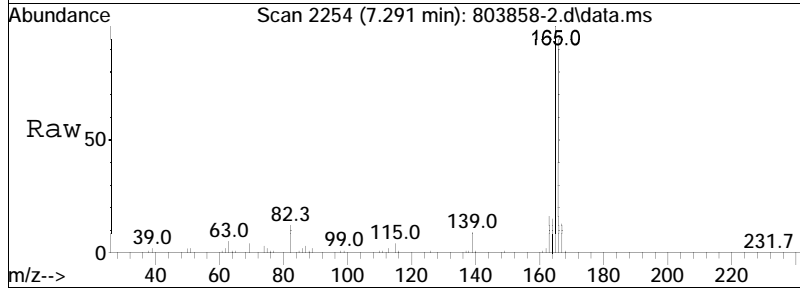
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.7	15.5	23.3
150	12.4	9.5	14.3

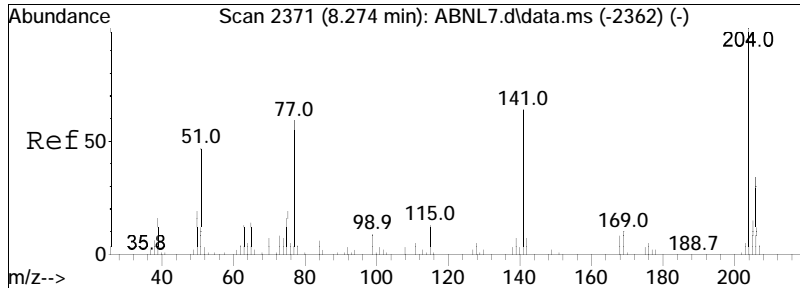




#73
 Fluorene
 Concen: 31.04 ug/ml
 RT: 7.291 min Scan# 2254
 Delta R.T. -0.006 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

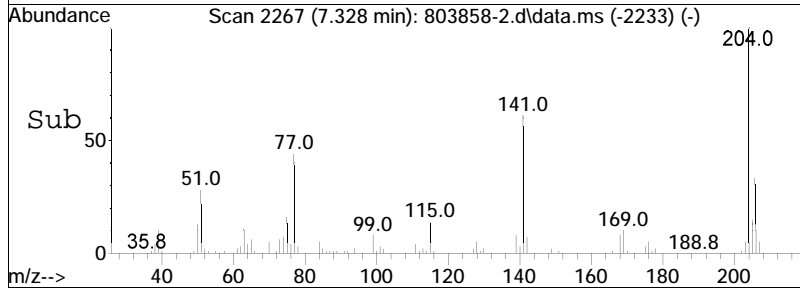
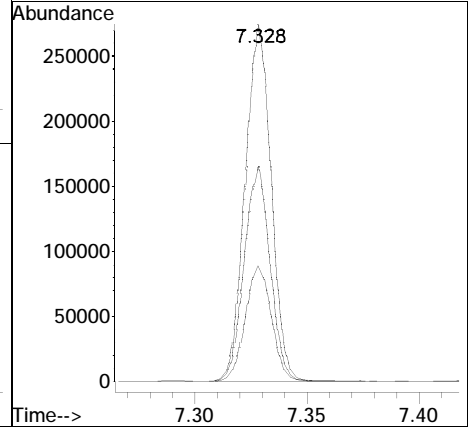
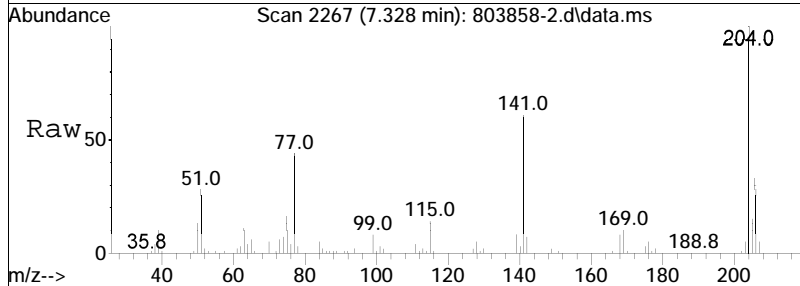
Tgt Ion	Resp	Lower	Upper
166	100		
165	103.9	79.3	118.9
167	13.3	10.6	16.0

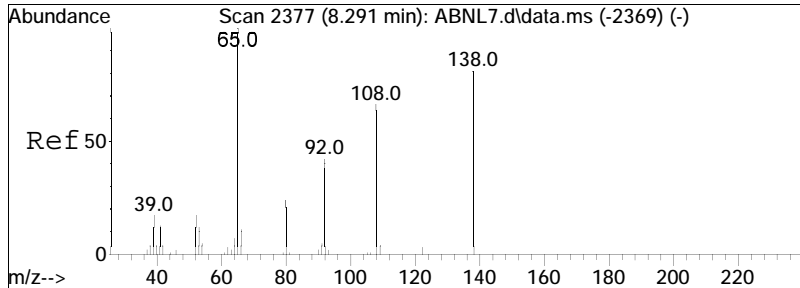




#74
 4-Chlorophenyl phenyl ether
 Concen: 30.71 ug/ml
 RT: 7.328 min Scan# 2267
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

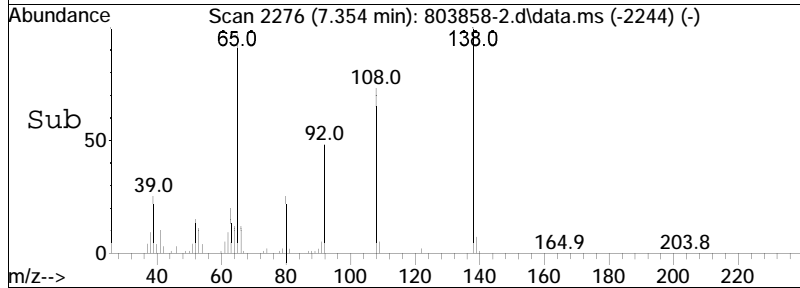
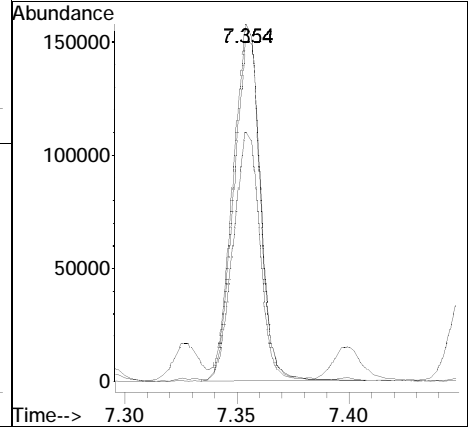
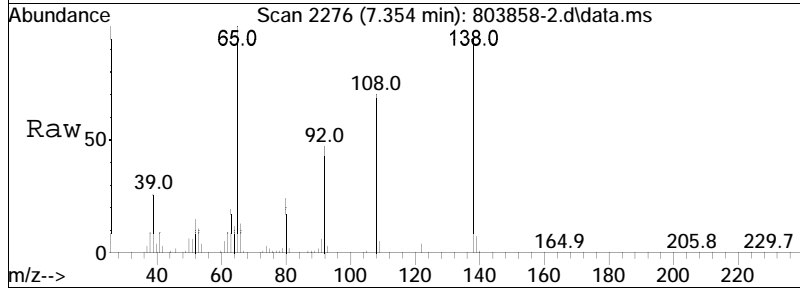
Tgt Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.2	39.4
141	60.2	57.2	85.8

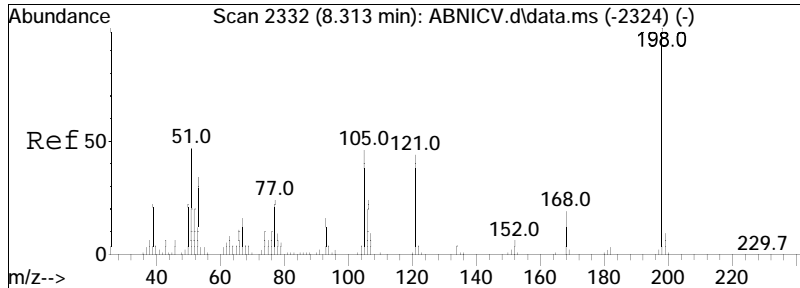




#75
 4-Nitroaniline
 Concen: 32.58 ug/ml
 RT: 7.354 min Scan# 2276
 Delta R.T. -0.009 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

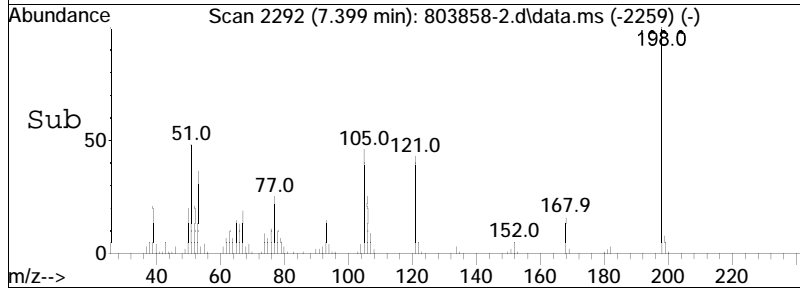
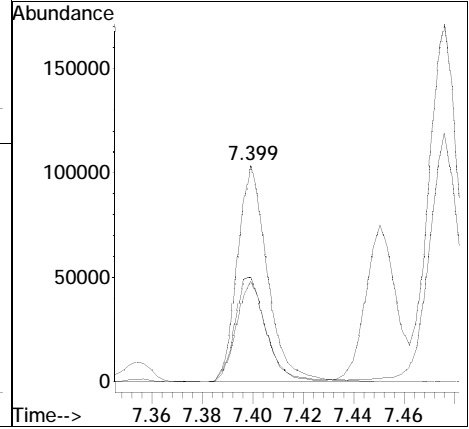
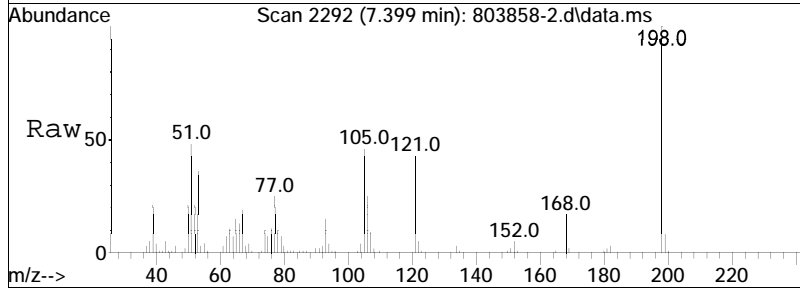
Tgt Ion	Resp	Lower	Upper
138	126073		
138	100		
108	72.9	62.7	94.1
65	103.7	107.8	161.6#

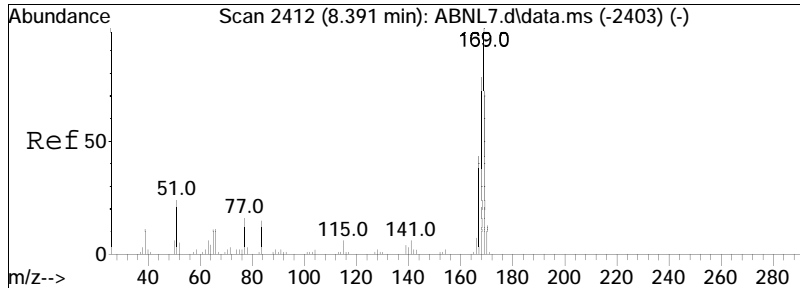




#76
 4,6-Dinitro-o-cresol
 Concen: 40.78 ug/ml
 RT: 7.399 min Scan# 2292
 Delta R.T. -0.006 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

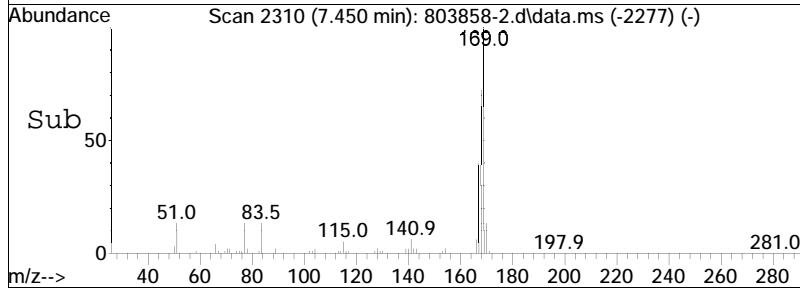
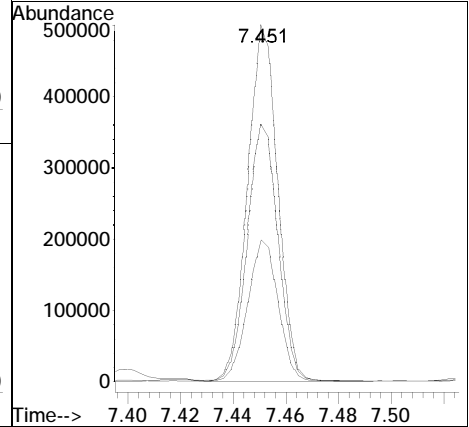
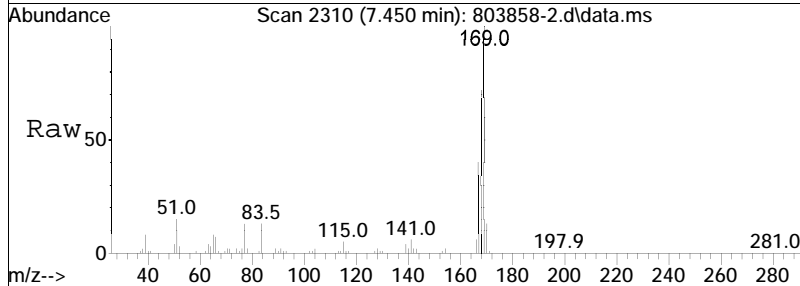
Tgt Ion	Ratio	Lower	Upper
198	100		
51	50.2	59.0	88.4#
105	46.1	45.0	67.6

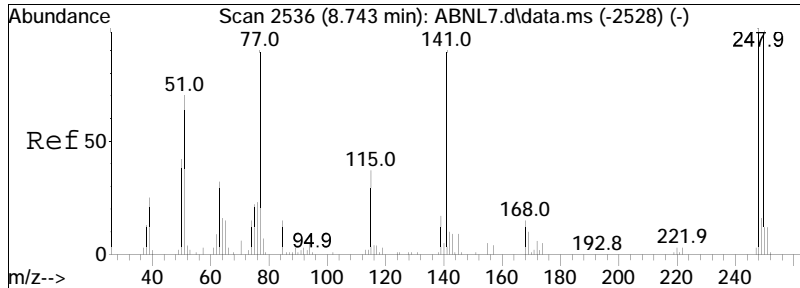




#77
 NDPA/DPA
 Concen: 30.94 ug/ml
 RT: 7.450 min Scan# 2310
 Delta R.T. -0.006 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

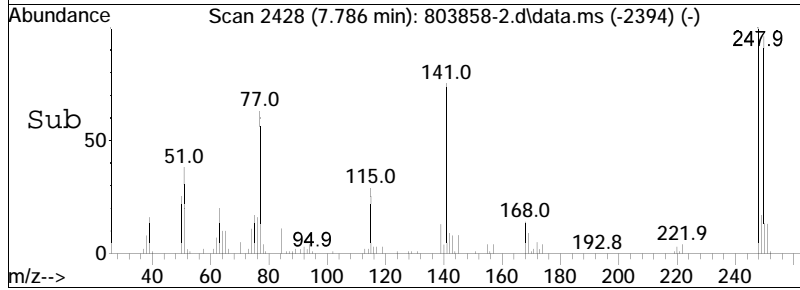
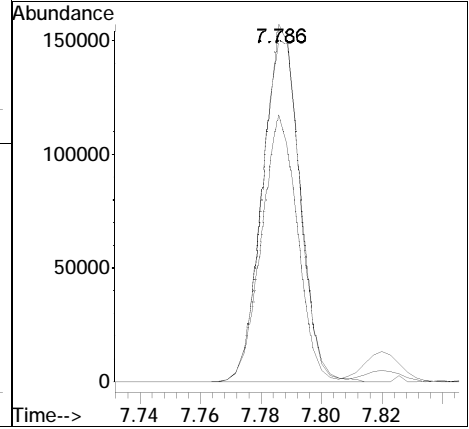
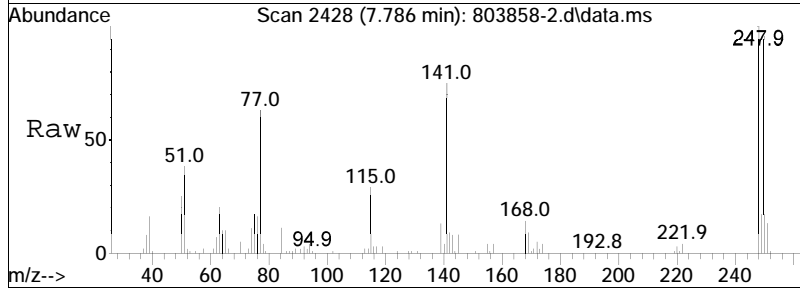
Tgt Ion	Resp	Lower	Upper
169	399812		
168	73.3	55.4	83.0
167	40.1	30.3	45.5

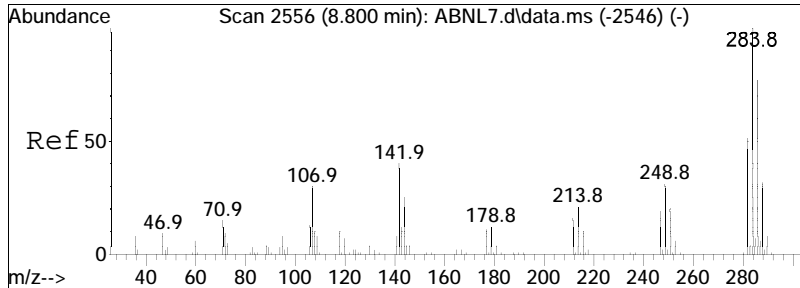




#80
 4-Bromophenyl phenyl ether
 Concen: 31.07 ug/ml
 RT: 7.786 min Scan# 2428
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

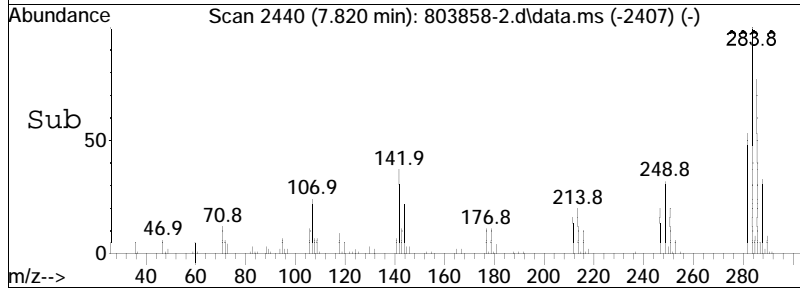
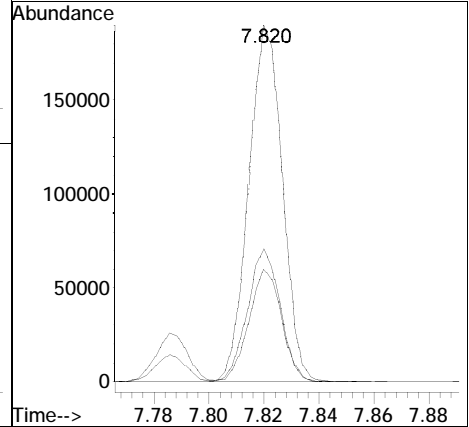
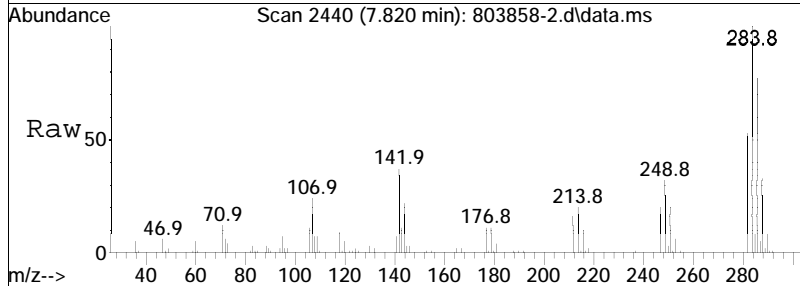
Tgt Ion	Ratio	Lower	Upper
248	100		
141	72.9	76.8	115.2#
250	98.8	79.7	119.5

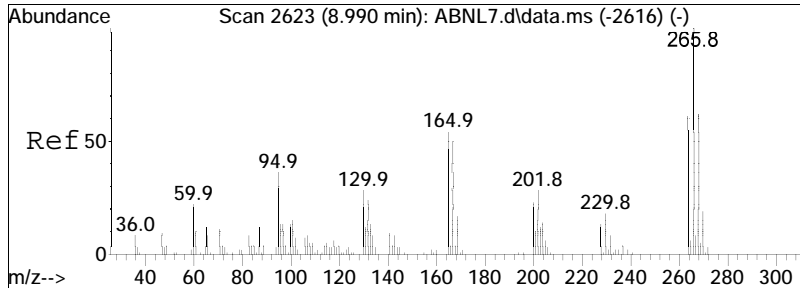




#81
 Hexachlorobenzene
 Concen: 31.15 ug/ml
 RT: 7.820 min Scan# 2440
 Delta R.T. -0.006 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

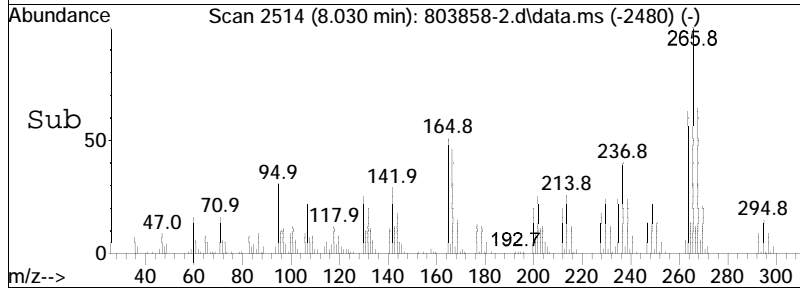
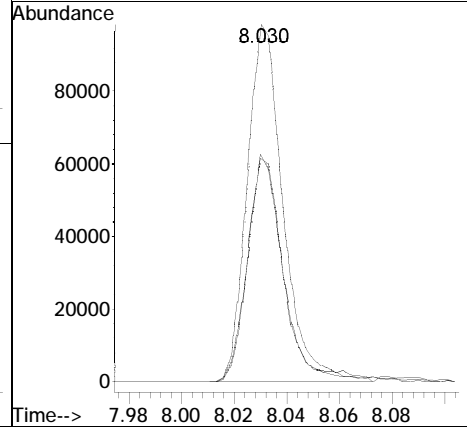
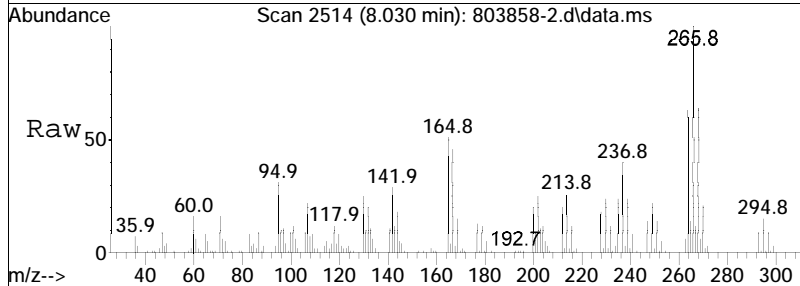
Tgt Ion:	284	Resp:	161582
Ion Ratio	Lower	Upper	
284	100		
142	36.4	35.8	53.6
249	30.8	24.7	37.1

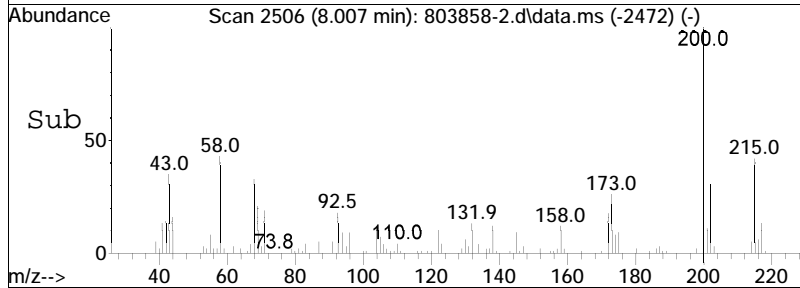
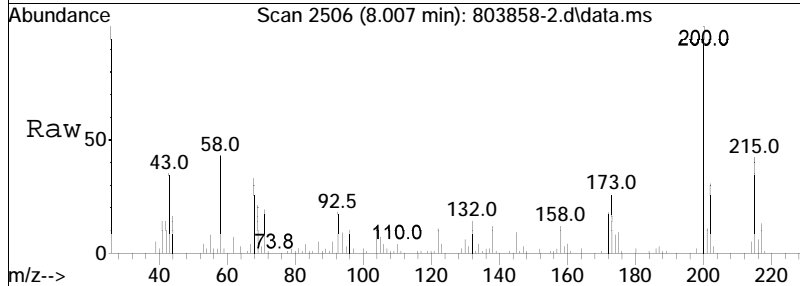
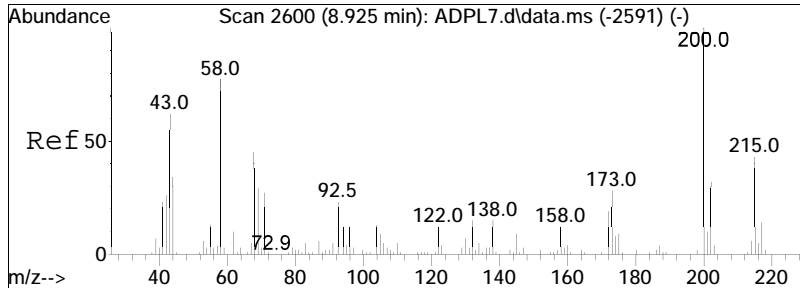




#82
 Pentachlorophenol
 Concen: 29.87 ug/ml
 RT: 8.030 min Scan# 2514
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

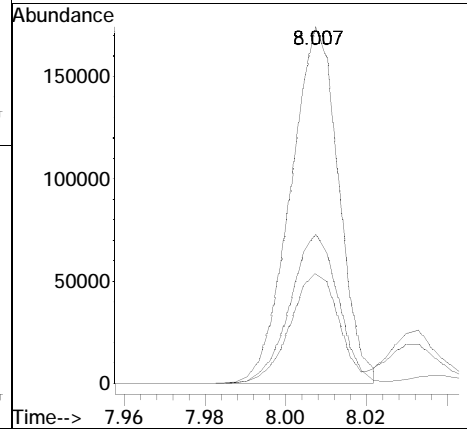
Tgt Ion	Resp	Lower	Upper
266	100		
264	63.9	51.8	77.6
268	61.3	49.8	74.8

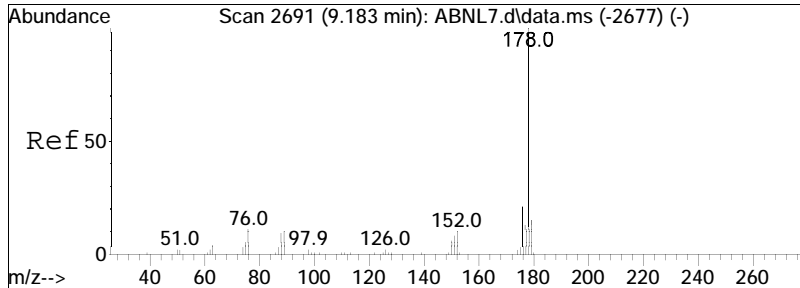




#87
 Atrazine
 Concen: 41.66 ug/ml
 RT: 8.007 min Scan# 2506
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

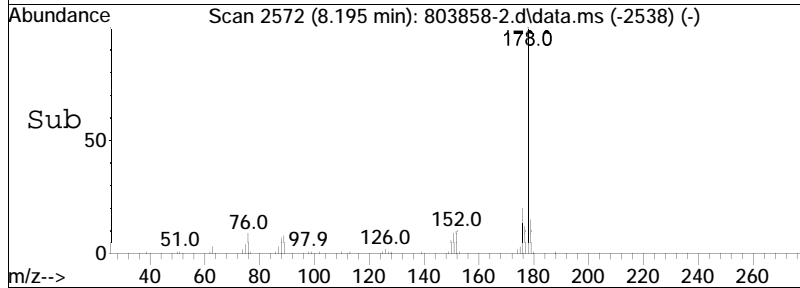
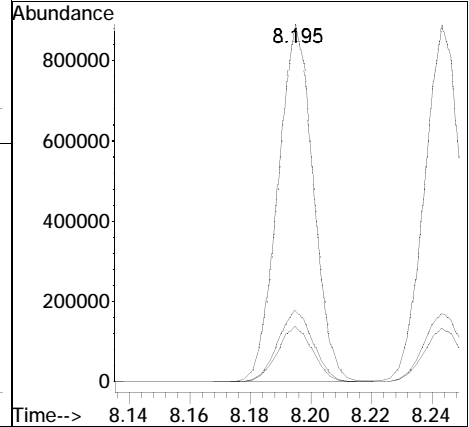
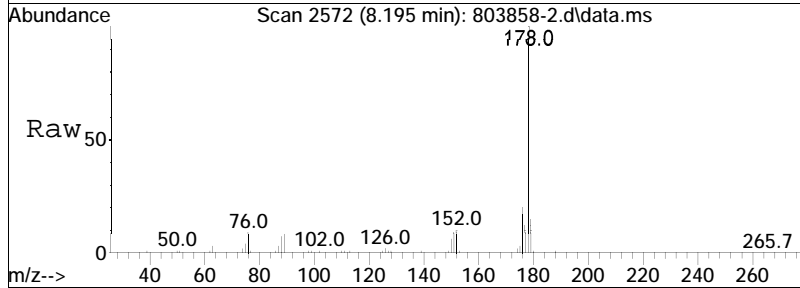
Tgt Ion	Ratio	Lower	Upper
200	100		
202	31.3	24.9	37.3
215	41.8	34.0	51.0

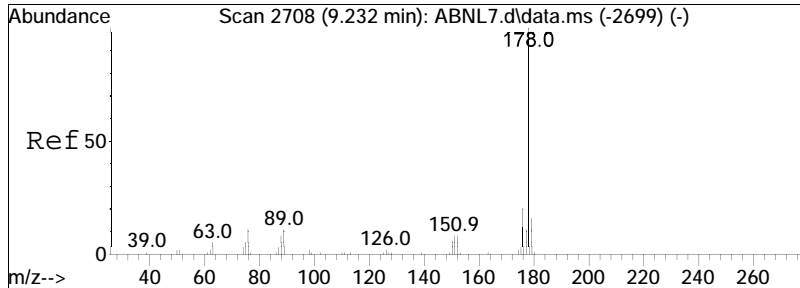




#89
 Phenanthrene
 Concen: 29.42 ug/ml
 RT: 8.195 min Scan# 2572
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

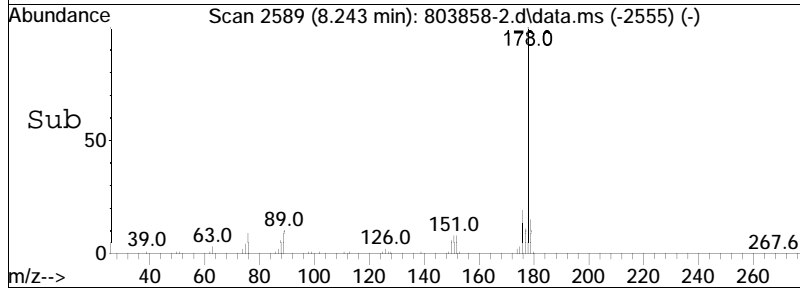
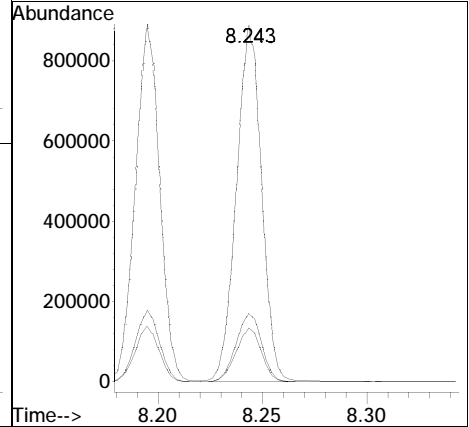
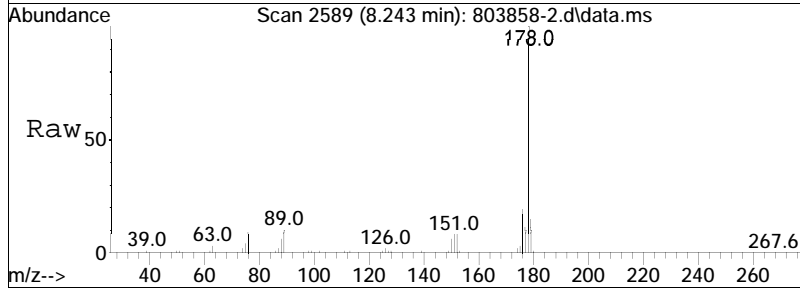
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.2
176	19.9	15.4	23.2

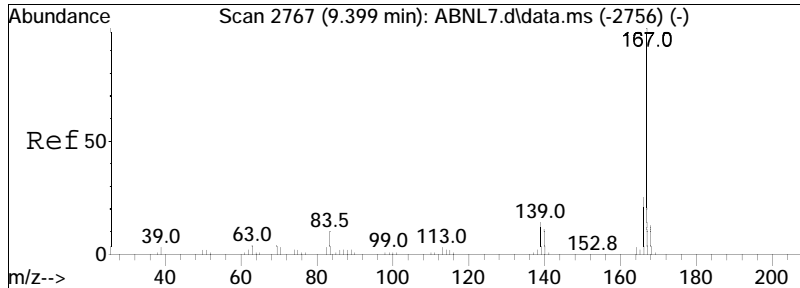




#90
 Anthracene
 Concen: 30.68 ug/ml
 RT: 8.243 min Scan# 2589
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

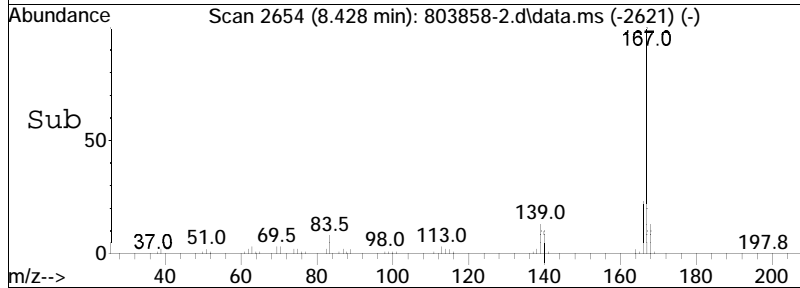
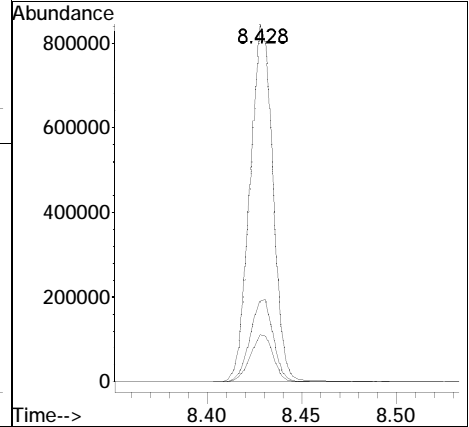
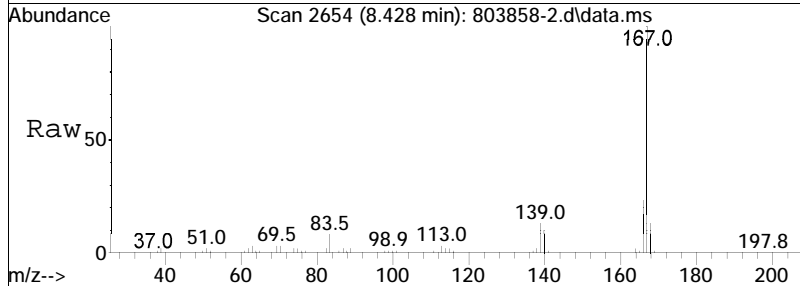
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.3	12.1	18.1
176	19.4	14.8	22.2

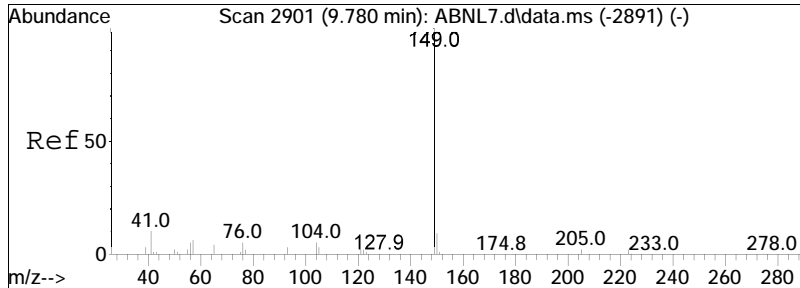




#91
 Carbazole
 Concen: 30.94 ug/ml
 RT: 8.428 min Scan# 2654
 Delta R.T. -0.006 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

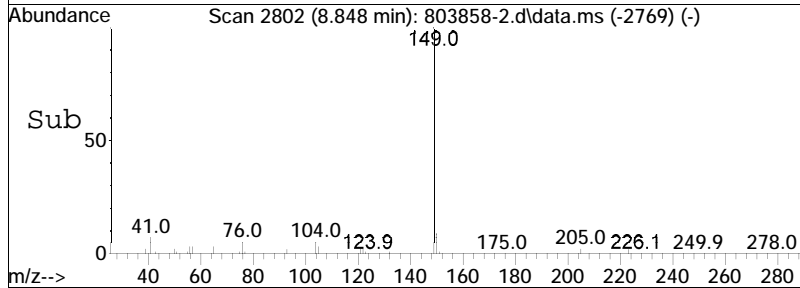
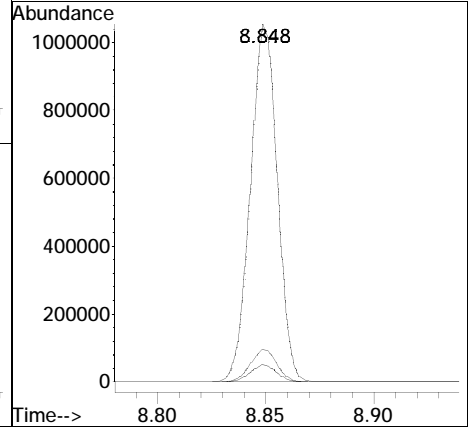
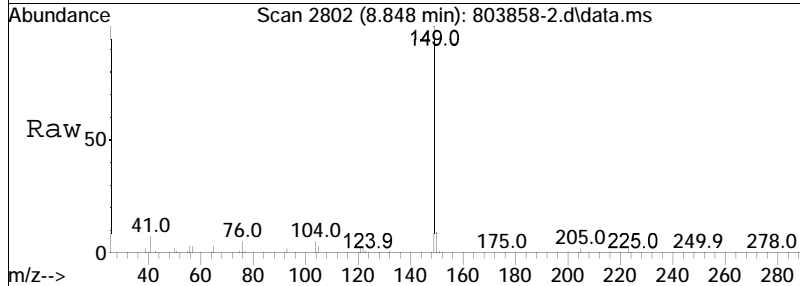
Tgt Ion	Resp	Lower	Upper
167	100		
168	13.4	10.6	15.8
166	23.5	17.7	26.5

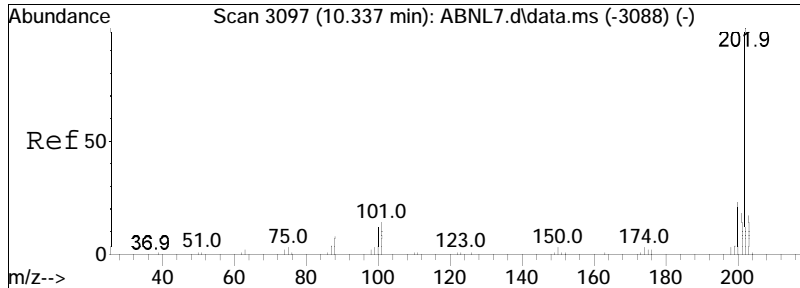




#92
 Di-n-butylphthalate
 Concen: 36.87 ug/ml
 RT: 8.848 min Scan# 2802
 Delta R.T. -0.006 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

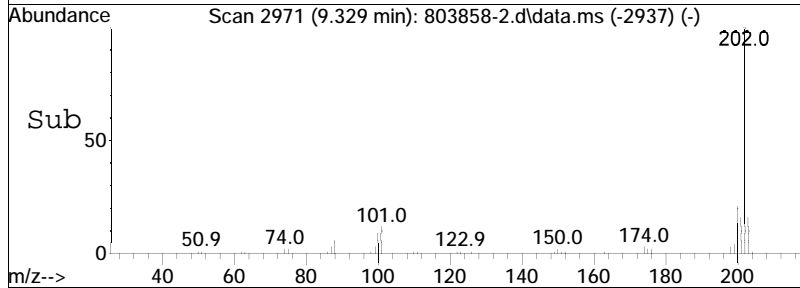
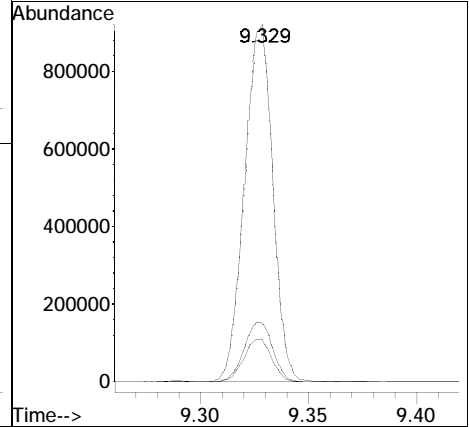
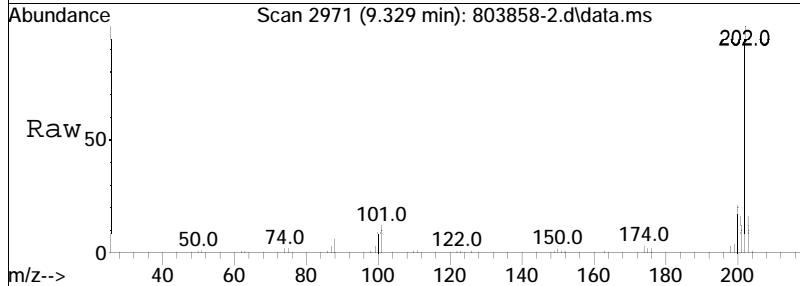
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.4	11.0
104	4.8	4.2	6.2

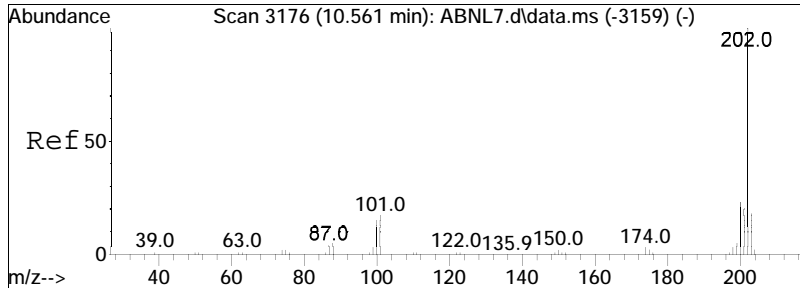




#93
 Fluoranthene
 Concen: 31.98 ug/ml
 RT: 9.329 min Scan# 2971
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

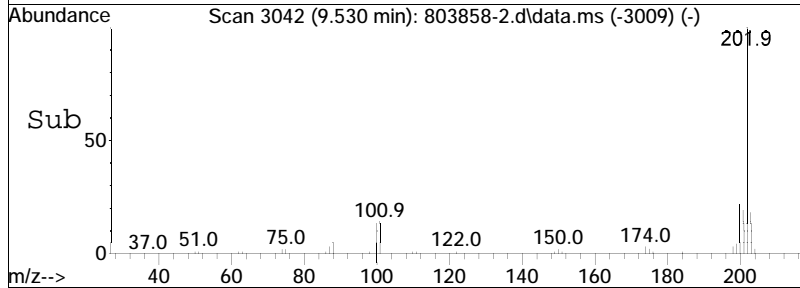
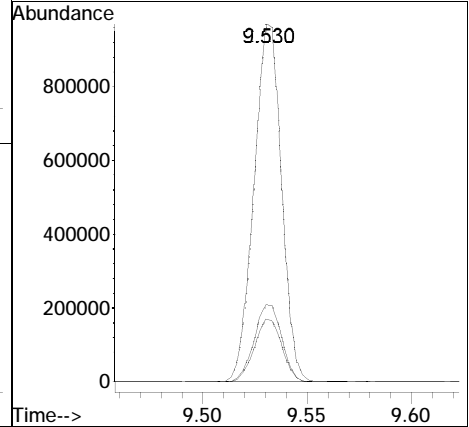
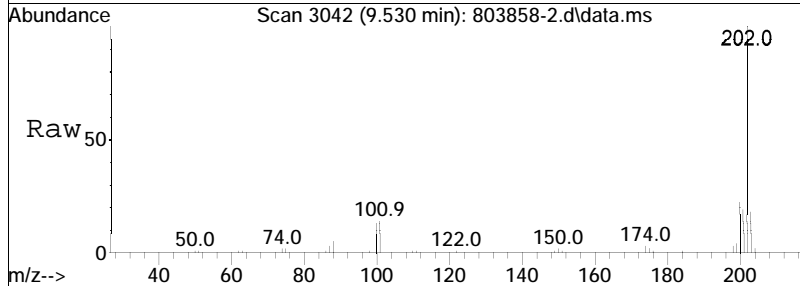
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	11.4	17.0
203	17.1	13.9	20.9

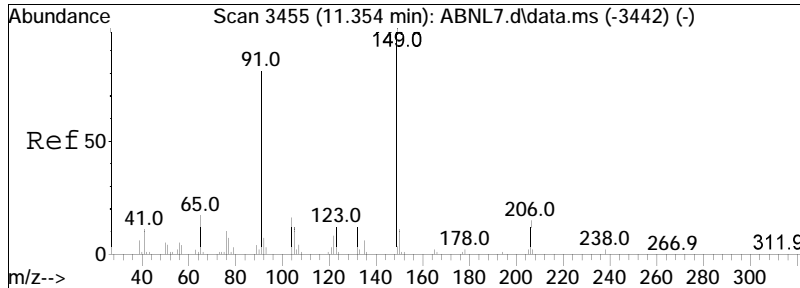




#95
 Pyrene
 Concen: 31.61 ug/ml
 RT: 9.530 min Scan# 3042
 Delta R.T. -0.006 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

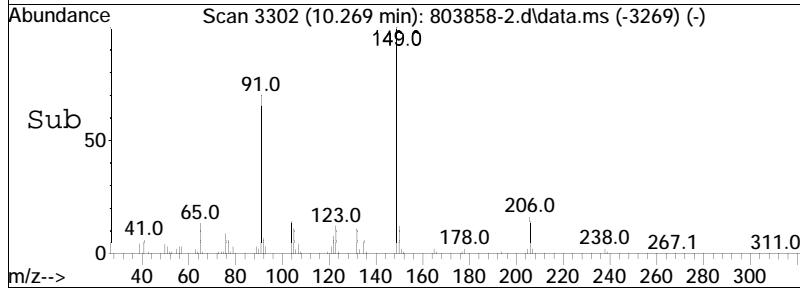
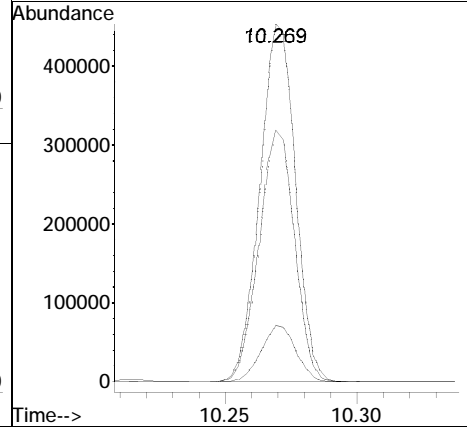
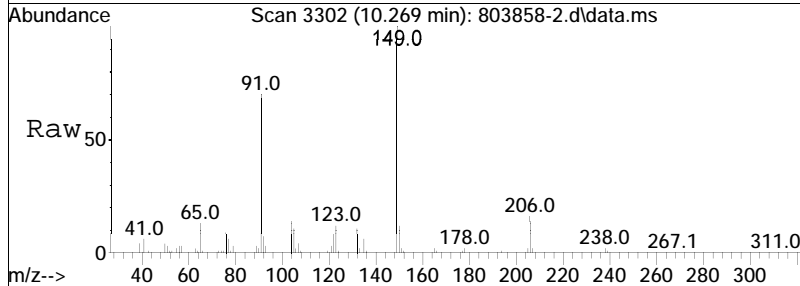
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.0	25.4
203	17.8	14.2	21.2

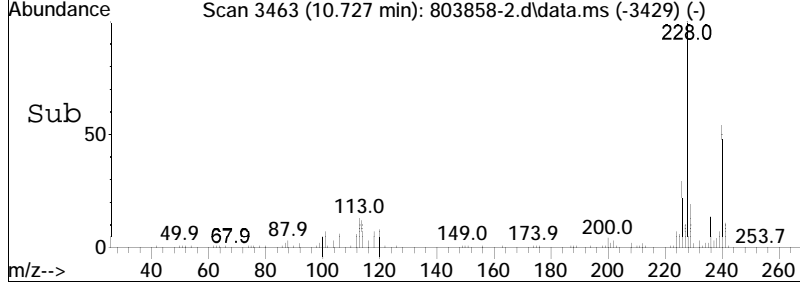
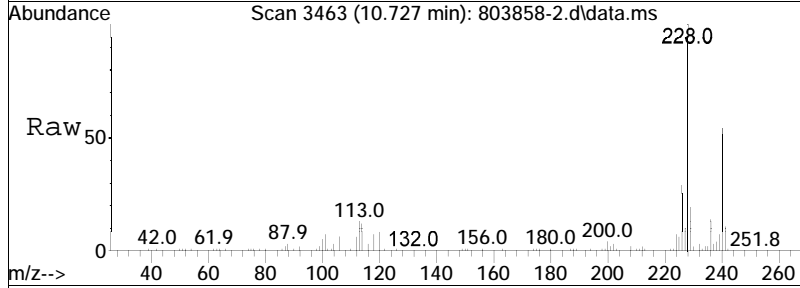
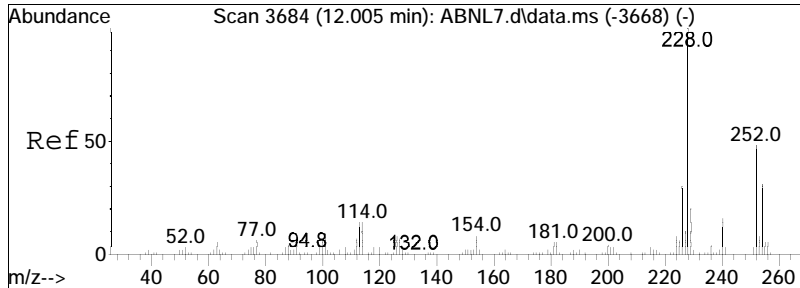




#97
 Butyl benzyl phthalate
 Concen: 35.26 ug/ml
 RT: 10.269 min Scan# 3302
 Delta R.T. -0.006 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

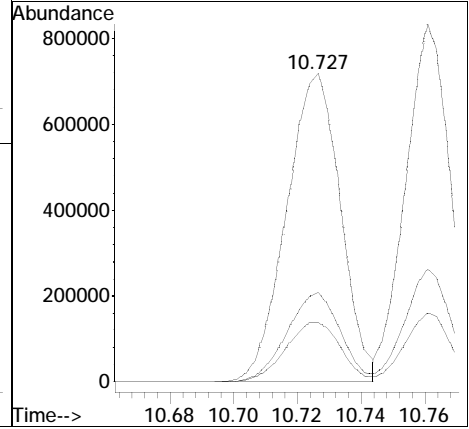
Tgt Ion	Ratio	Lower	Upper
149	100		
91	70.4	61.2	91.8
206	15.6	12.5	18.7

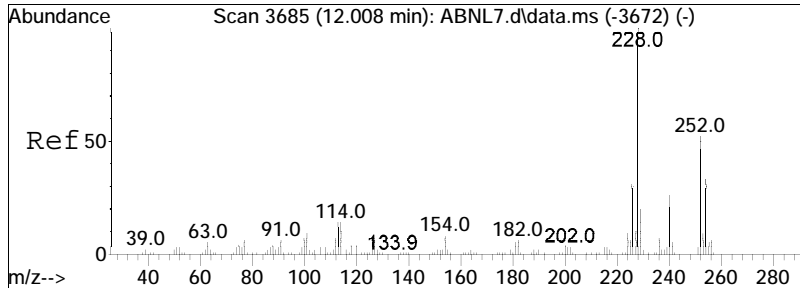




#105
 Benzo(a)anthracene
 Concen: 30.24 ug/ml
 RT: 10.727 min Scan# 3463
 Delta R.T. -0.003 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

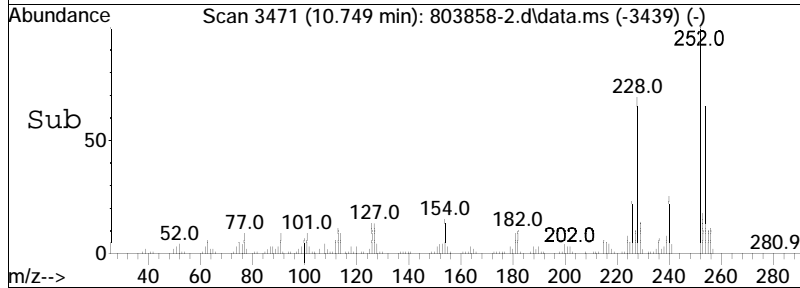
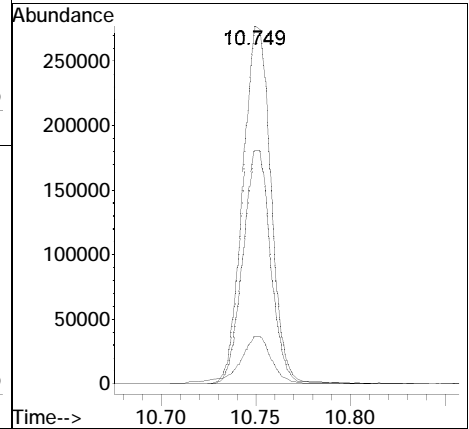
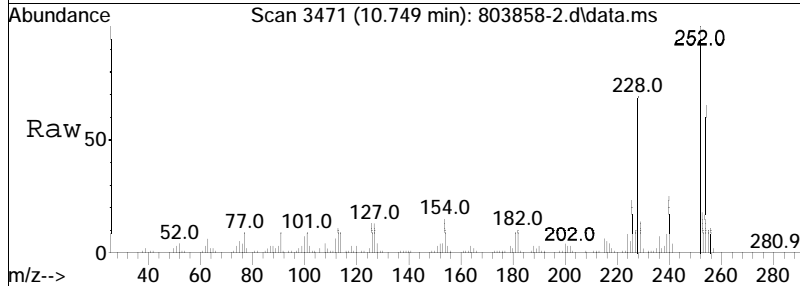
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.2	33.2
229	19.7	15.6	23.4

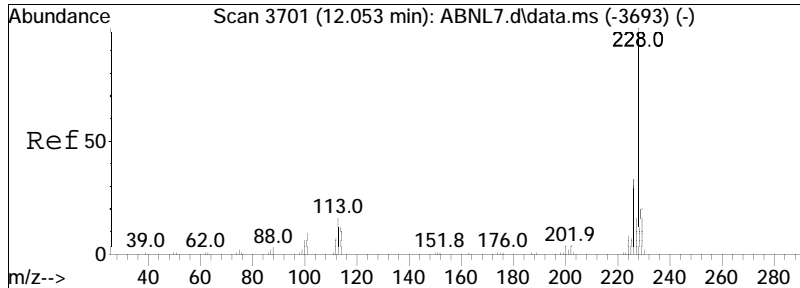




#106
 3,3'-Dichlorobenzidine
 Concen: 27.83 ug/ml
 RT: 10.749 min Scan# 3471
 Delta R.T. -0.009 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

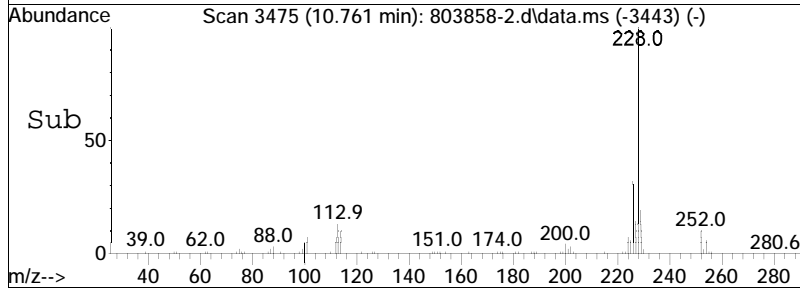
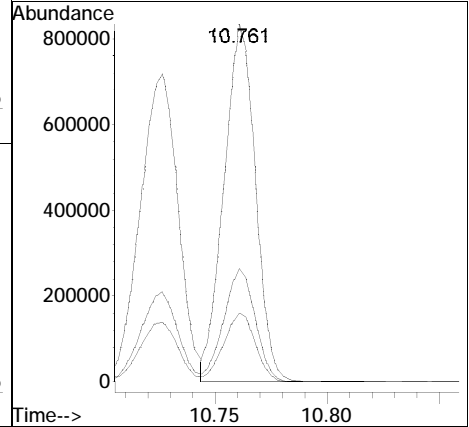
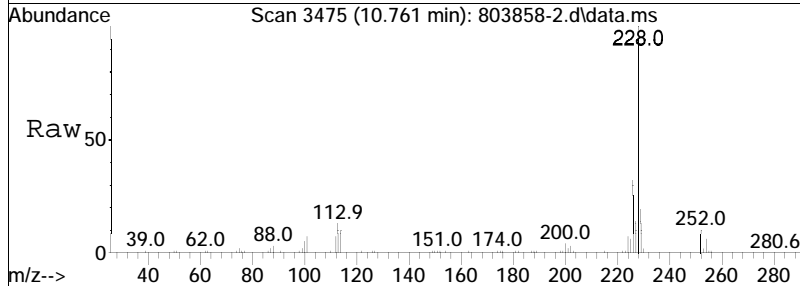
Tgt Ion	Resp	Lower	Upper
252	100		
126	15.6	13.8	20.6
254	64.8	53.0	79.6

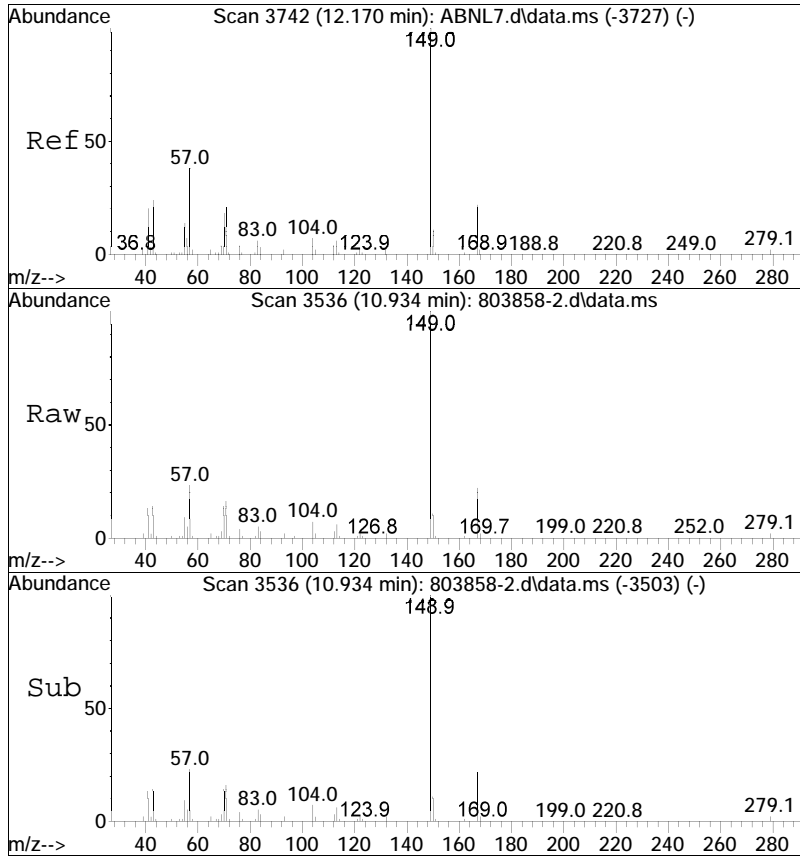




#107
 Chrysene
 Concen: 29.04 ug/ml
 RT: 10.761 min Scan# 3475
 Delta R.T. -0.009 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

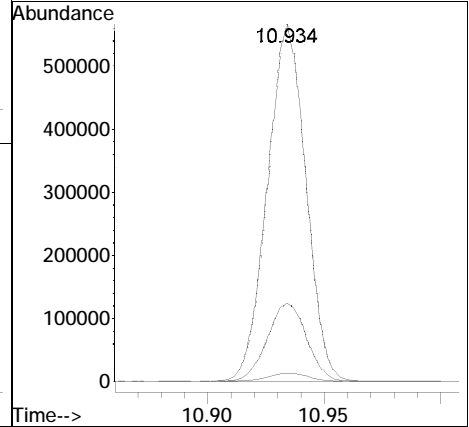
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.6	37.0
229	19.5	15.8	23.6

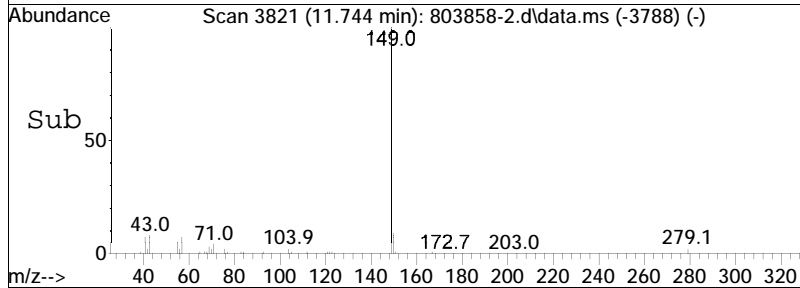
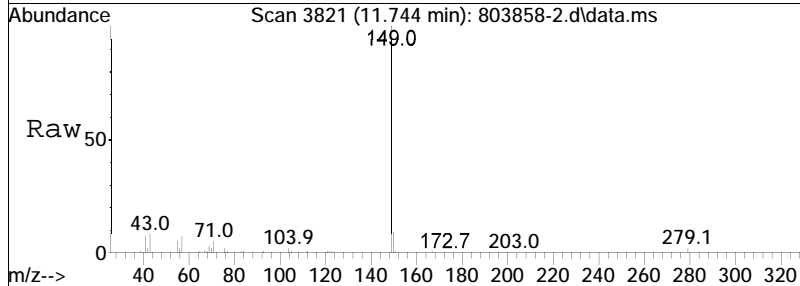
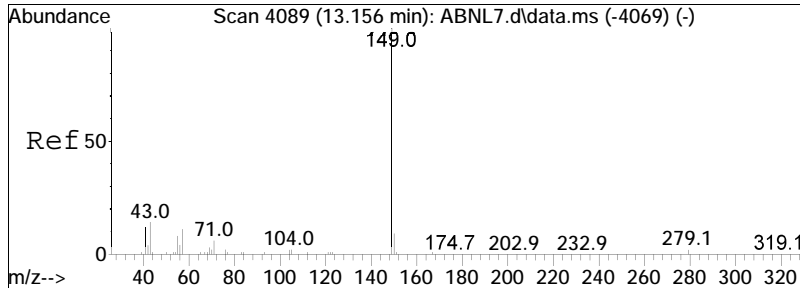




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 32.72 ug/ml
 RT: 10.934 min Scan# 3536
 Delta R.T. -0.006 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

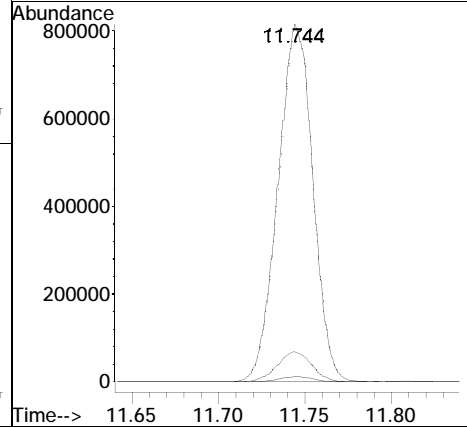
Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.6	19.4	29.0
279	2.3	2.3	3.5

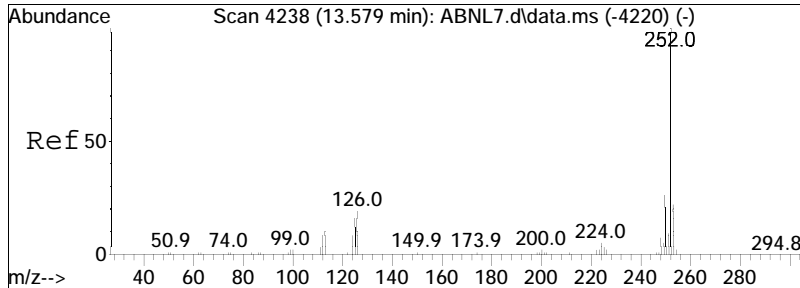




#109
 Di-n-octylphthalate
 Concen: 34.20 ug/ml
 RT: 11.744 min Scan# 3821
 Delta R.T. -0.006 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

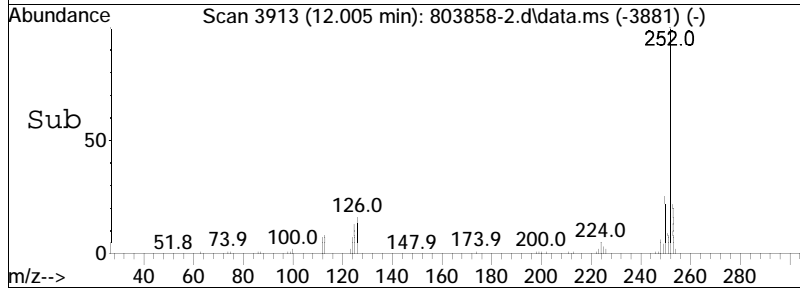
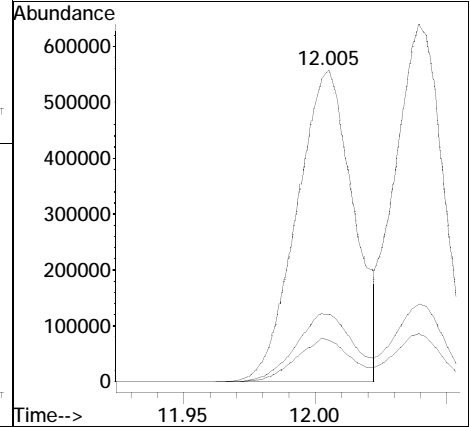
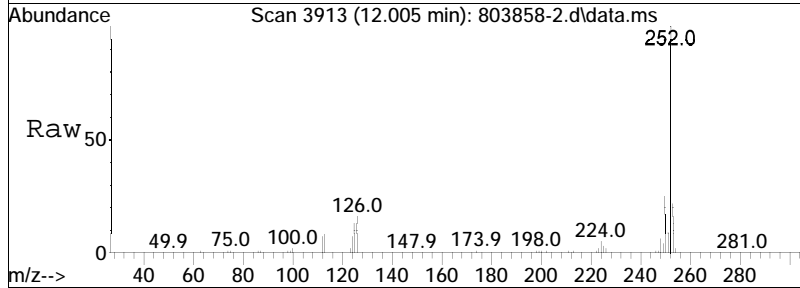
Tgt Ion	Ratio	Lower	Upper
149	100		
43	8.4	10.1	15.1#
167	1.3	1.1	1.7

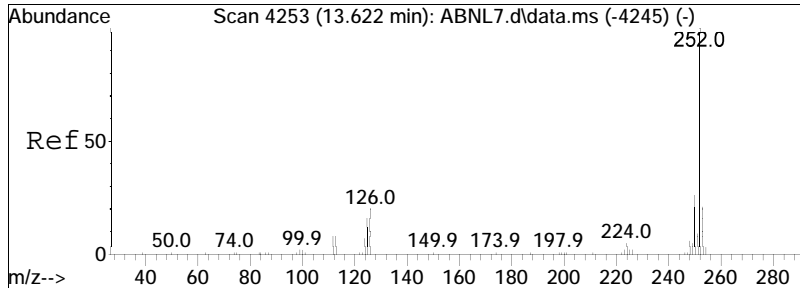




#110
 Benzo(b)fluoranthene
 Concen: 30.89 ug/ml
 RT: 12.005 min Scan# 3913
 Delta R.T. -0.009 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

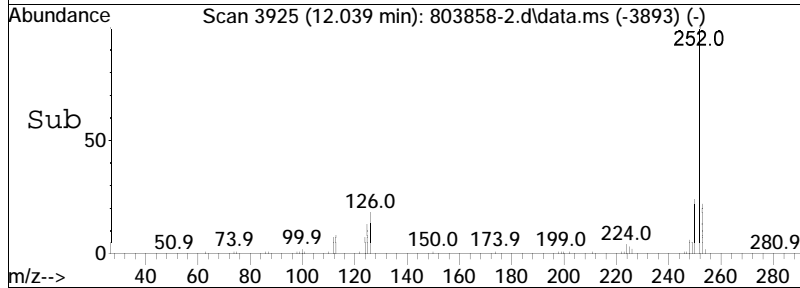
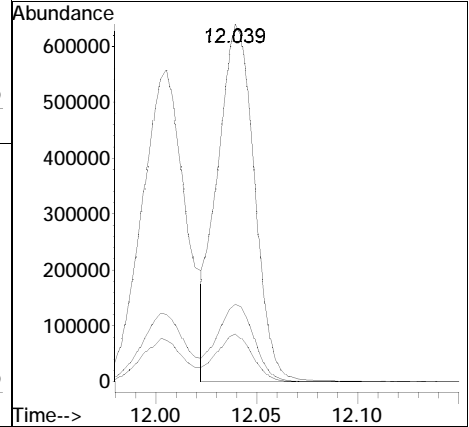
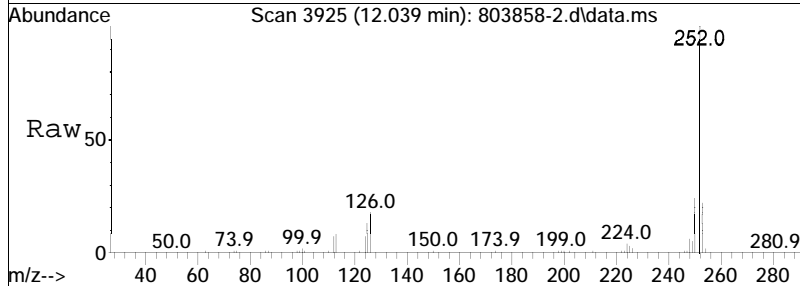
Tgt Ion	Ratio	Lower	Upper
252	100		
125	13.1	11.6	17.4
253	22.2	17.4	26.0

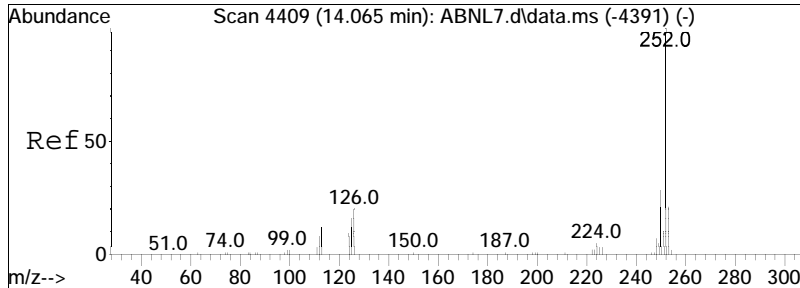




#111
 Benzo(k)fluoranthene
 Concen: 29.32 ug/ml
 RT: 12.039 min Scan# 3925
 Delta R.T. -0.009 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

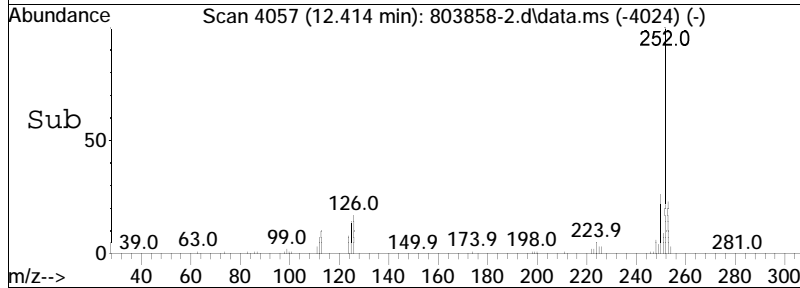
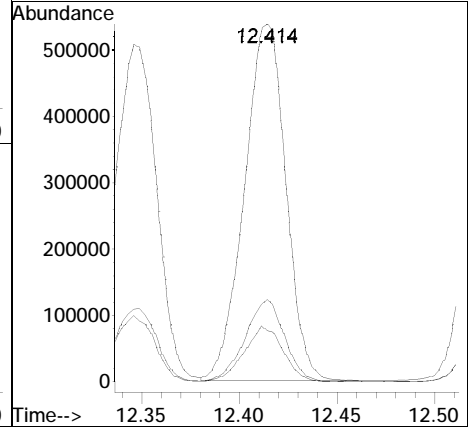
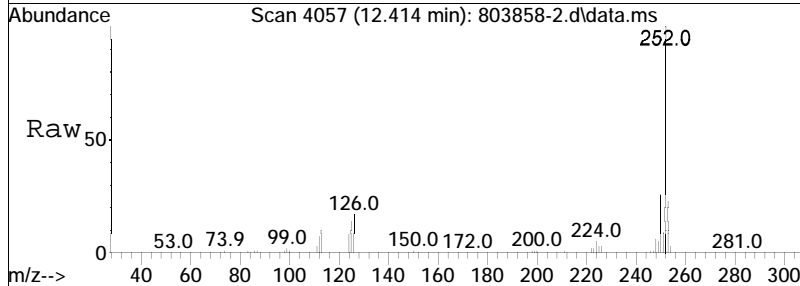
Tgt Ion	Resp	Lower	Upper
252	100		
125	13.1	11.4	17.0
253	21.7	17.2	25.8

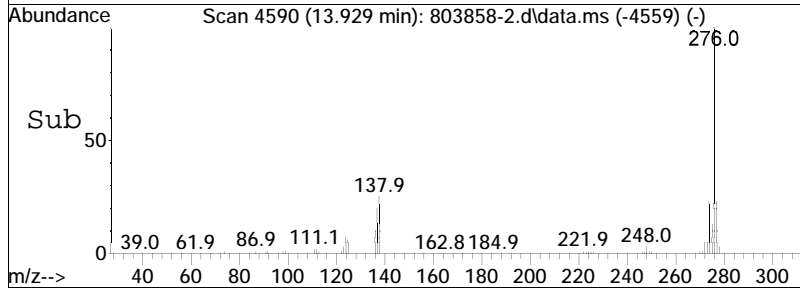
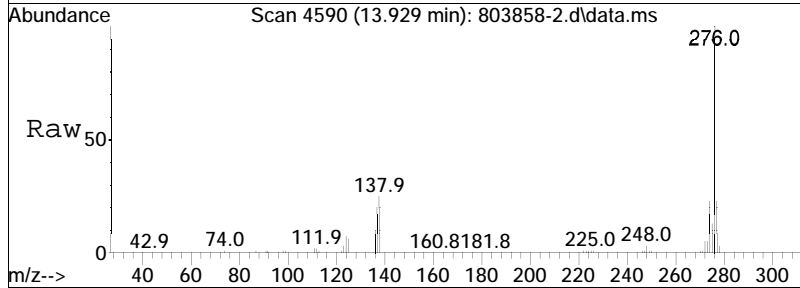
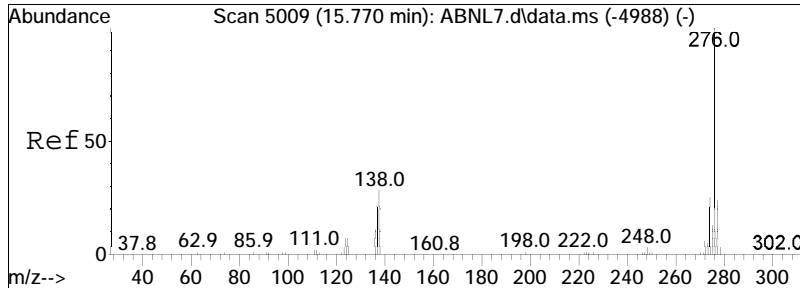




#112
 Benzo(a)pyrene
 Concen: 33.90 ug/ml
 RT: 12.414 min Scan# 4057
 Delta R.T. -0.006 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

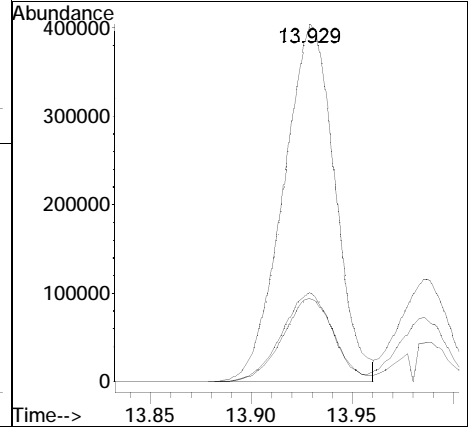
Tgt Ion	Ratio	Lower	Upper
252	100		
125	14.7	12.6	18.8
253	21.8	16.9	25.3

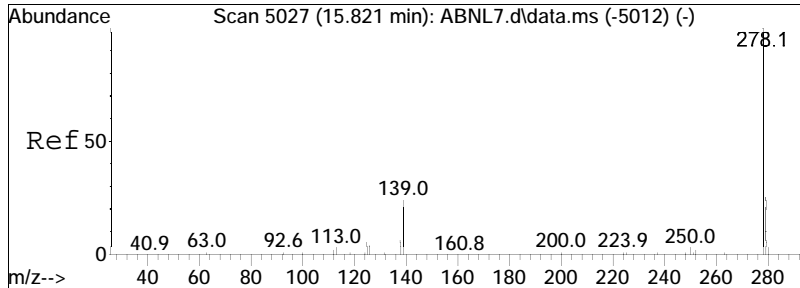




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 33.68 ug/mL
 RT: 13.929 min Scan# 4590
 Delta R.T. -0.012 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

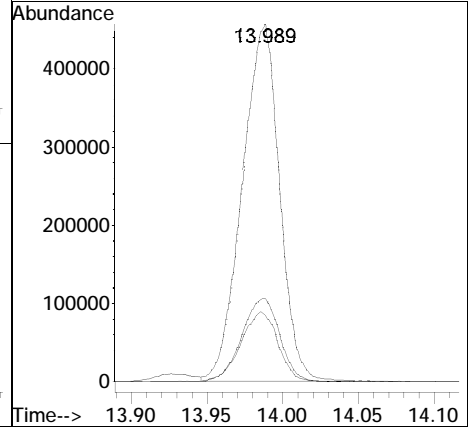
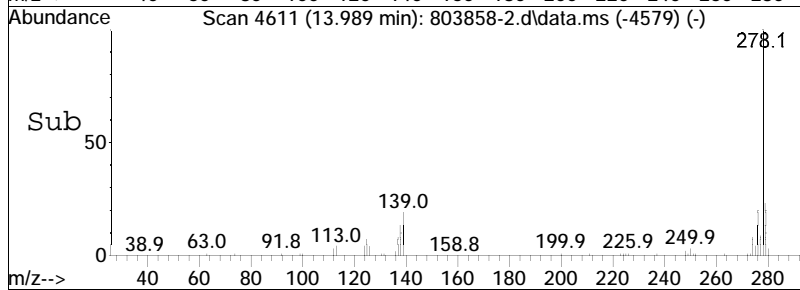
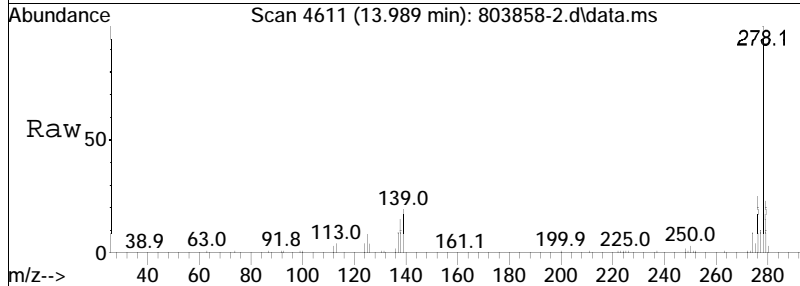
Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.8	21.4	32.0
277	23.5	19.2	28.8

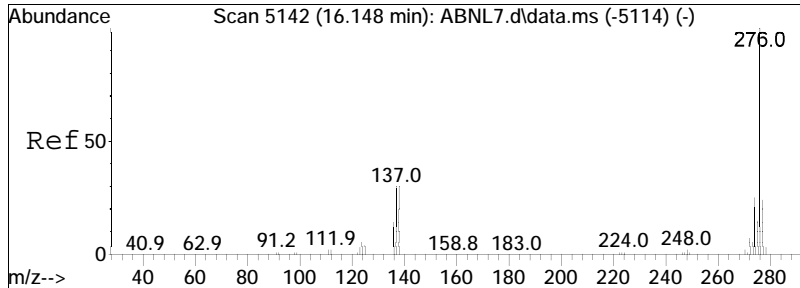




#115
 Dibenzo(a,h)anthracene
 Concen: 30.50 ug/ml
 RT: 13.989 min Scan# 4611
 Delta R.T. -0.009 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

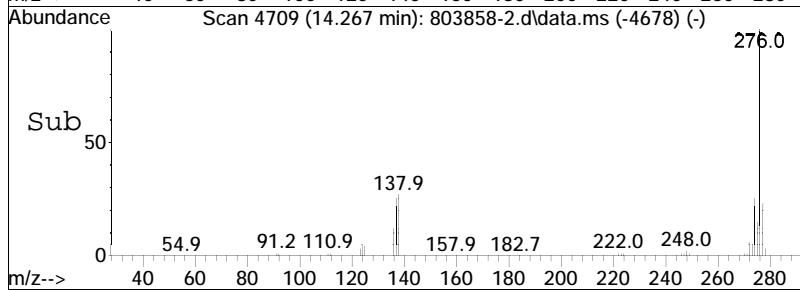
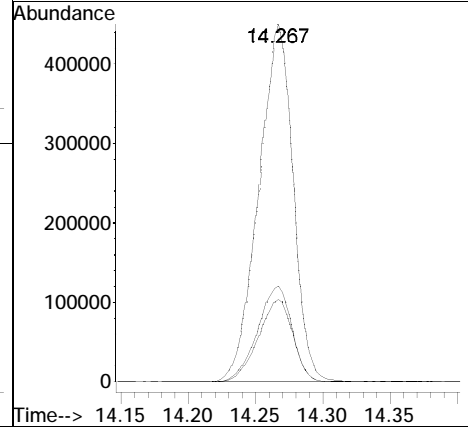
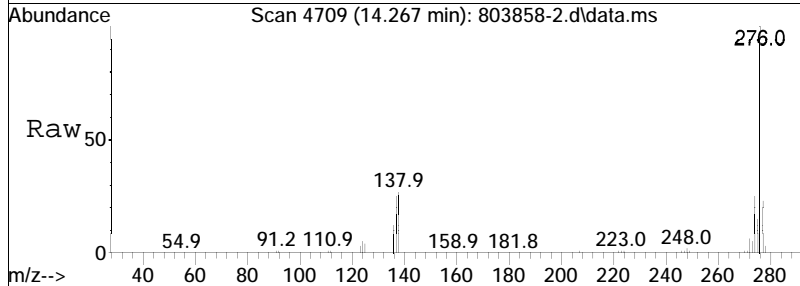
Tgt Ion	Resp	Lower	Upper
278	100		
139	19.7	17.1	25.7
279	23.8	19.3	28.9





#116
 Benzo(ghi)perylene
 Concen: 30.64 ug/ml
 RT: 14.267 min Scan# 4709
 Delta R.T. -0.012 min
 Lab File: 803858-2.d
 Acq: 19 Jul 2023 1:38 am

Tgt Ion	Resp	Lower	Upper
276	100		
138	27.1	26.7	40.1
277	23.5	19.4	29.2



Manual Integration Report

Data Path	: I:\8270\SV103\230718n\	QMethod	: FS230515nSV103.m
Data File	: 803858-2.d	Operator	: SV103:ek
Date Inj'd	: 7/19/2023 1:38 am	Instrument	: SV103
Sample	: WG1803858-2,32,,mg	Quant Date	: 7/19/2023 1:58 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
 Data File : 804755-2.D
 Acq On : 19 Jul 2023 8:24 am
 Operator : SV124:jg
 Sample : WG1804755-2,32,,gmr
 Misc : WG1804924,WG1804755,ical20053
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 19 16:35:39 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:46:09 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230719\ABN0719.D
 : 2 - I:\8270\sv124\230719\ADP0719.D
 : 3 - I:\8270\sv124\230719\AP90719.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.374	152	100445	40.000	ug/ml	0.00
Standard Area 1 = 83649			Recovery =	120.08%		
27) IS2_1,4-Dichlorobenzen...	3.374	152	100445	40.000	ug/ml	0.00
Standard Area 3 = 78776			Recovery =	127.51%		
32) IS3_1,4-Dichlorobenzen...	3.374	152	100445	40.000	ug/ml	0.00
Standard Area 2 = 83138			Recovery =	120.82%		
35) IS1_Naphthalene-d8	4.157	136	409672	40.000	ug/ml	# 0.00
Standard Area 1 = 345862			Recovery =	118.45%		
55) IS2_Naphthalene-d8	4.157	136	409672	40.000	ug/ml	# 0.00
Standard Area 3 = 330473			Recovery =	123.97%		
63) IS1_Acenaphthene-d10	5.282	164	220045	40.000	ug/ml	0.00
Standard Area 1 = 189721			Recovery =	115.98%		
83) IS2_Acenaphthene-d10	5.282	164	220045	40.000	ug/ml	0.00
Standard Area 3 = 175556			Recovery =	125.34%		
86) IS3_Acenaphthene-d10	5.282	164	220045	40.000	ug/ml	0.00
Standard Area 2 = 188343			Recovery =	116.83%		
88) IS1_Phenanthrene-d10	6.243	188	434095	40.000	ug/ml	0.00
Standard Area 1 = 393875			Recovery =	110.21%		
100) IS3_Phenanthrene-d10	6.243	188	434095	40.000	ug/ml	0.00
Standard Area 2 = 380390			Recovery =	114.12%		
104) IS1_Chrysene-d12	8.120	240	379811	40.000	ug/ml	0.00
Standard Area 1 = 362434			Recovery =	104.79%		
113) IS1_Perylene-d12	9.211	264	451076	40.000	ug/ml	0.00
Standard Area 1 = 440891			Recovery =	102.31%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.631	112	101706	37.796	ug/ml	0.01
Spiked Amount 50.000			Range 15 - 110	Recovery =	75.59%	
7) Phenol-d6	3.156	99	130776	37.206	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	74.41%	
19) Nitrobenzene-d5	3.706	82	61674	17.976	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	71.90%	
46) 2-Fluorobiphenyl	4.844	172	126641	16.113	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	64.45%	
79) 2,4,6-Tribromophenol	5.792	330	40532	30.512	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	61.02%	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
 Data File : 804755-2.D
 Acq On : 19 Jul 2023 8:24 am
 Operator : SV124:jg
 Sample : WG1804755-2,32,,gmr
 Misc : WG1804924,WG1804755,ical20053
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 19 16:35:39 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:46:09 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230719\ABN0719.D
 : 2 - I:\8270\sv124\230719\ADP0719.D
 : 3 - I:\8270\sv124\230719\AP90719.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	7.324	244	153156	14.604	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	58.42%
Target Compounds						Qvalue
6) 2-Chlorophenol	3.249	128	99724	31.354	ug/ml	98
8) Phenol	3.162	94	126564	33.291	ug/ml#	84
9) Bis(2-chloroethyl)ether	3.212	93	87851	28.644	ug/ml	95
14) Bis(2-chloroisopropyl)...	3.535	45	191800	36.608	ug/ml	95
15) 2-Methylphenol	3.523	108	89283	29.970	ug/ml	99
16) Hexachloroethane	3.682	117	43230	28.939	ug/ml	91
17) n-Nitrosodi-n-propylamine	3.616	70	77269	32.632	ug/ml	96
18) 3-Methylphenol/4-Methy...	3.616	108	93148	30.762	ug/ml	97
20) Nitrobenzene	3.719	77	105121	30.069	ug/ml	99
21) Isophorone	3.868	82	192589	31.128	ug/ml	100
22) 2-Nitrophenol	3.918	139	54666	35.206	ug/ml	94
23) 2,4-Dimethylphenol	3.946	107	98416	29.930	ug/ml	94
24) Bis(2-chloroethoxy)met...	3.999	93	121532	30.750	ug/ml#	95
25) 2,4-Dichlorophenol	4.070	162	87165	31.246	ug/ml	98
28) Benzaldehyde	3.116	105	77392	39.373	ug/ml	92
29) Acetophenone	3.613	105	144994	32.536	ug/ml#	73
36) Naphthalene	4.169	128	294791	28.457	ug/ml	99
38) 4-Chloroaniline	4.204	65	28440	22.149	ug/ml	85
39) Hexachlorobutadiene	4.250	225	51185	24.784	ug/ml	99
40) p-Chloro-m-cresol	4.518	107	88649	31.675	ug/ml	95
41) 2-Methylnaphthalene	4.611	142	190165	28.350	ug/ml	97
43) Hexachlorocyclopentadiene	4.716	237	49494	18.616	ug/ml	96
44) 2,4,6-Trichlorophenol	4.797	196	63055	30.190	ug/ml	95
45) 2,4,5-Trichlorophenol	4.822	196	71041	30.897	ug/ml	95
47) 2-Chloronaphthalene	4.922	162	192829	28.511	ug/ml	98
48) 2-Nitroaniline	4.990	138	67530	34.426	ug/ml	96
51) Dimethyl phthalate	5.105	163	235079	29.576	ug/ml	99
52) Acenaphthylene	5.189	152	321975	30.404	ug/ml	99
53) 2,6-Dinitrotoluene	5.145	165	49892	31.594	ug/ml	97
60) Caprolactam	4.418	55	67843	40.699	ug/ml#	83
61) 1,2,4,5-Tetrachloroben...	4.723	216	92837	25.121	ug/ml	99
62) Biphenyl	4.909	154	244030	28.981	ug/ml	99
64) 3-Nitroaniline	5.254	138	45813	25.851	ug/ml#	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
 Data File : 804755-2.D
 Acq On : 19 Jul 2023 8:24 am
 Operator : SV124:jg
 Sample : WG1804755-2,32,,gmr
 Misc : WG1804924,WG1804755,ical20053
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 19 16:35:39 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:46:09 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230719\ABN0719.D
 : 2 - I:\8270\sv124\230719\ADP0719.D
 : 3 - I:\8270\sv124\230719\AP90719.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Acenaphthene	5.301	154	177421	27.110	ug/ml	93
66) 2,4-Dinitrophenol	5.326	184	13363	13.880	ug/ml	97
67) Dibenzofuran	5.413	168	284831	27.965	ug/ml	95
68) 2,4-Dinitrotoluene	5.410	165	70417	31.316	ug/ml	96
69) 4-Nitrophenol	5.369	65	46164	31.160	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	5.497	232	52191	25.241	ug/ml	98
72) Diethyl phthalate	5.562	149	249503	30.235	ug/ml	100
73) Fluorene	5.633	166	224504	26.657	ug/ml	97
74) 4-Chlorophenyl phenyl ...	5.633	204	104282	25.611	ug/ml	91
75) 4-Nitroaniline	5.652	138	54645	28.582	ug/ml	85
76) 4,6-Dinitro-o-cresol	5.674	198	36040	28.062	ug/ml	96
77) NDPA/DPA	5.711	169	187849	28.306	ug/ml	94
80) 4-Bromophenyl phenyl e...	5.950	248	61228	25.268	ug/ml#	88
81) Hexachlorobenzene	6.000	284	73256	24.686	ug/ml	96
82) Pentachlorophenol	6.128	266	33534	19.457	ug/ml	97
87) Atrazine	6.059	200	59634	27.999	ug/ml	99
89) Phenanthrene	6.258	178	331532	28.802	ug/ml	99
90) Anthracene	6.292	178	347472	29.951	ug/ml	99
91) Carbazole	6.398	167	319241	31.398	ug/ml	99
92) Di-n-butylphthalate	6.625	149	434047	34.098	ug/ml	99
93) Fluoranthene	7.054	202	368299	27.779	ug/ml	98
95) Pyrene	7.215	202	389073	28.101	ug/ml	99
97) Butyl benzyl phthalate	7.685	149	195717	35.562	ug/ml	97
105) Benzo(a)anthracene	8.111	228	382802	29.863	ug/ml	99
106) 3,3'-Dichlorobenzidine	8.092	252	107738	23.825	ug/ml#	96
107) Chrysene	8.139	228	366994	29.166	ug/ml	100
108) Bis(2-ethylhexyl)phtha...	8.132	149	309313	31.214	ug/ml#	97
109) Di-n-octylphthalate	8.630	149	516489	32.693	ug/ml	98
110) Benzo(b)fluoranthene	8.931	252	399083	30.671	ug/ml	98
111) Benzo(k)fluoranthene	8.950	252	370231	29.317	ug/ml	98
112) Benzo(a)pyrene	9.167	252	369747	33.500	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	9.932	276	459487	31.271	ug/mL#	93
115) Dibenzo(a,h)anthracene	9.938	278	395454	30.250	ug/ml	97
116) Benzo(ghi)perylene	10.112	276	388660	30.119	ug/ml#	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
Data File : 804755-2.D
Acq On : 19 Jul 2023 8:24 am
Operator : SV124:jg
Sample : WG1804755-2,32,,gmr
Misc : WG1804924,WG1804755,ical20053
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 19 16:35:39 2023
Quant Method : I:\8270\SV124\230719\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 09:46:09 2023
Response via : Initial Calibration

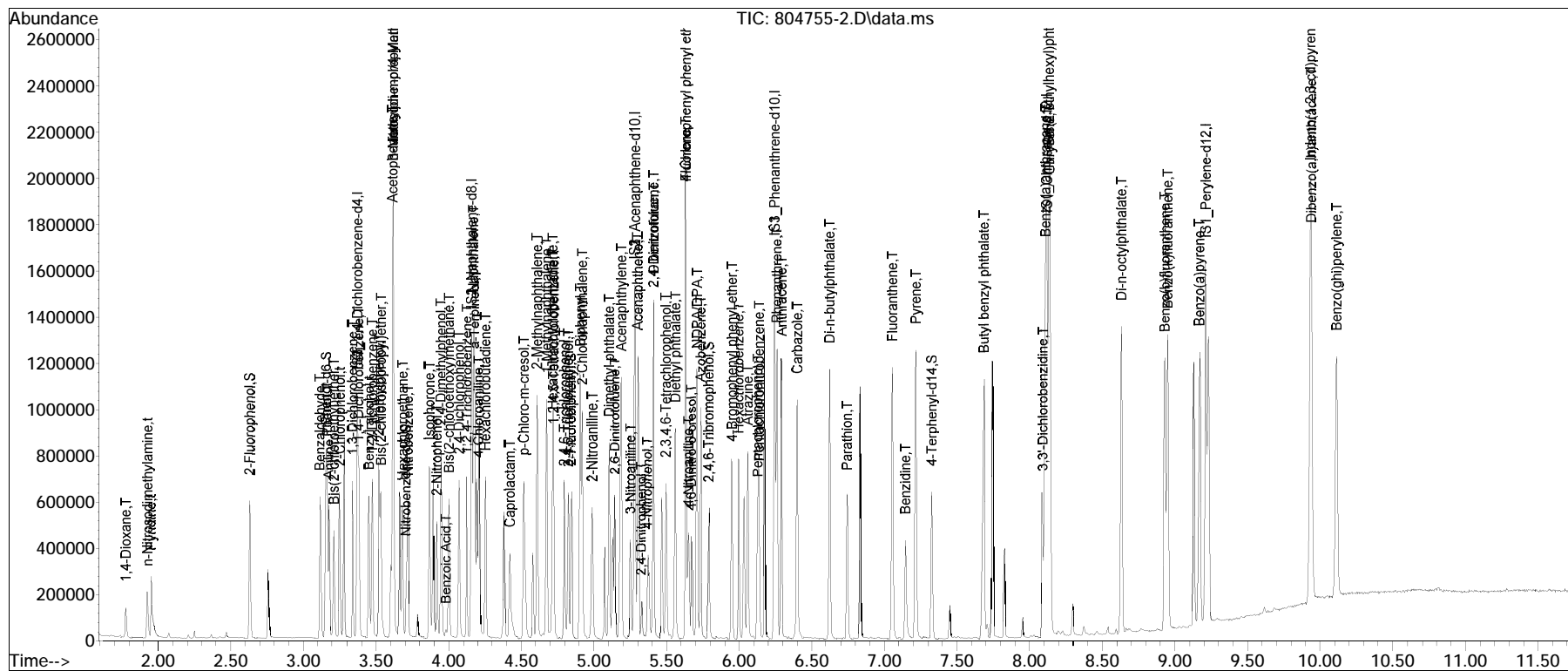
CCAL FILE(s) : 1 - I:\8270\sv124\230719\ABN0719.D
: 2 - I:\8270\sv124\230719\ADP0719.D
: 3 - I:\8270\sv124\230719\AP90719.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

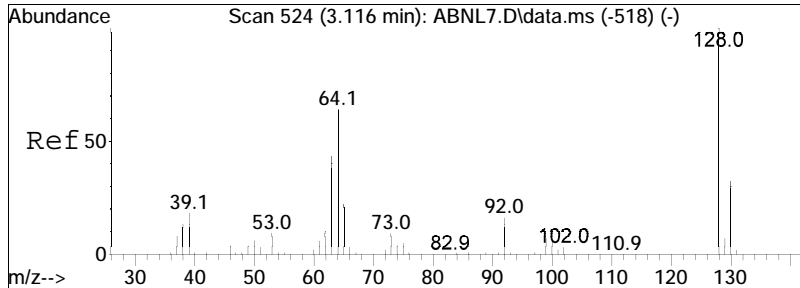
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Data Path : I:\8270\SV124\230719\
Data File : 804755-2.D
Acq On : 19 Jul 2023 8:24 am
Operator : SV124:jg
Sample : WG1804755-2,32,,gmr
Misc : WG1804924,WG1804755,ical20053
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 19 16:35:39 2023
Quant Method : I:\8270\SV124\230719\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 09:46:09 2023
Response via : Initial Calibration

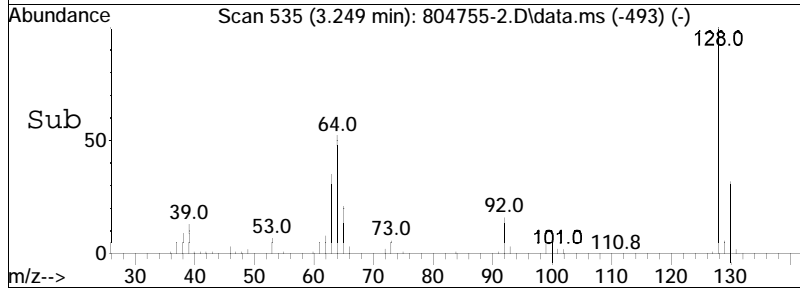
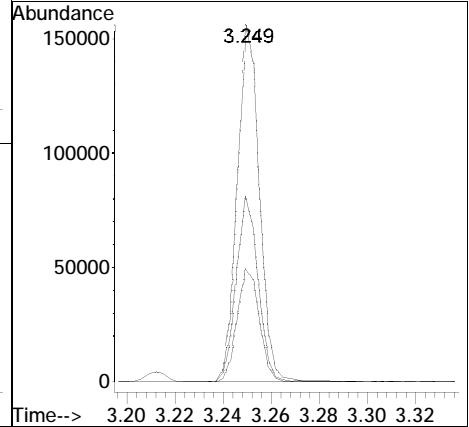
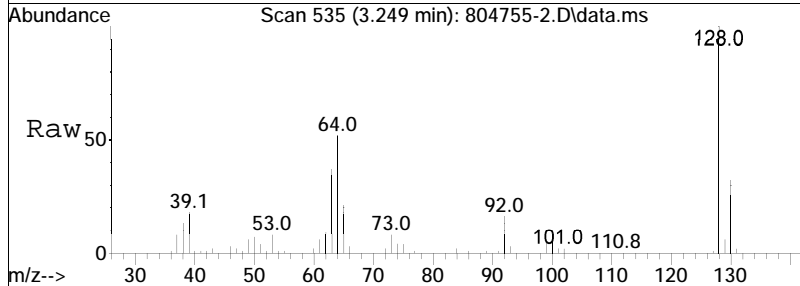
Sub List : 8270TCL_REV2 - TCL/CT/MA\AP90719.D•

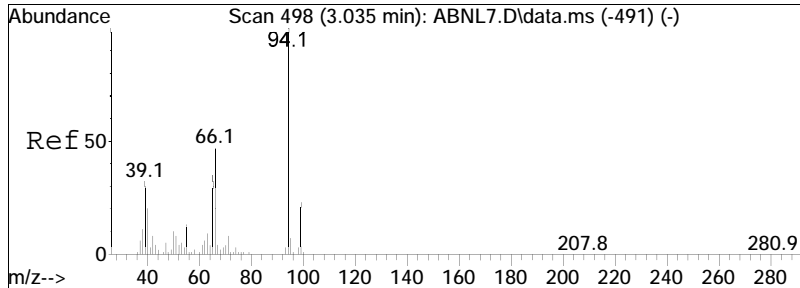




#6
 2-Chlorophenol
 Concen: 31.35 ug/ml
 RT: 3.249 min Scan# 535
 Delta R.T. 0.006 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

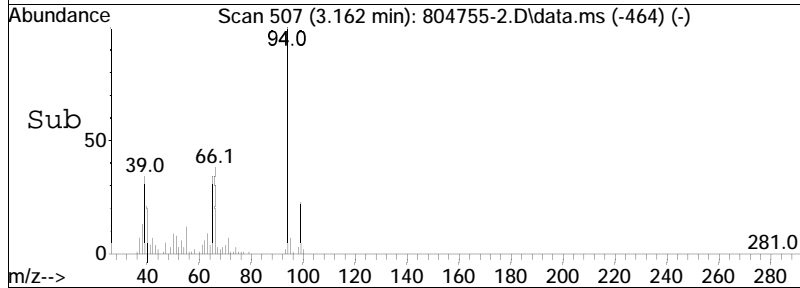
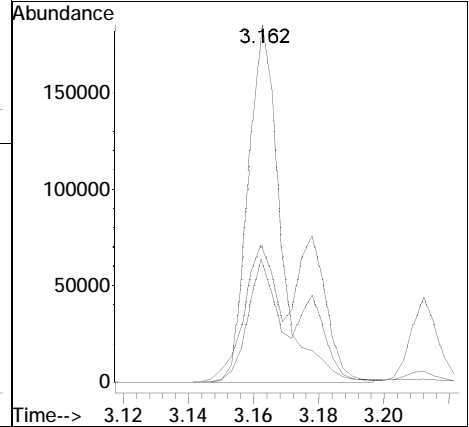
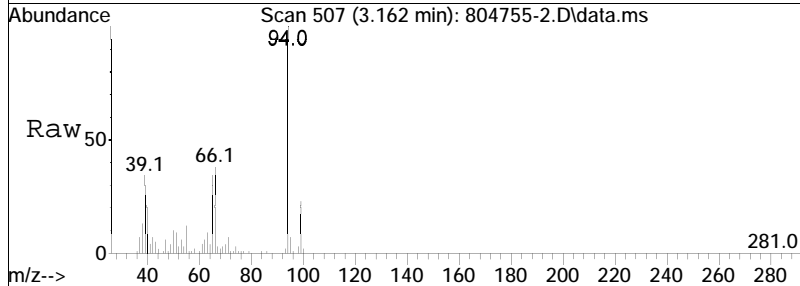
Tgt Ion	Ratio	Lower	Upper
128	100		
64	51.1	42.7	64.1
130	31.9	25.8	38.6

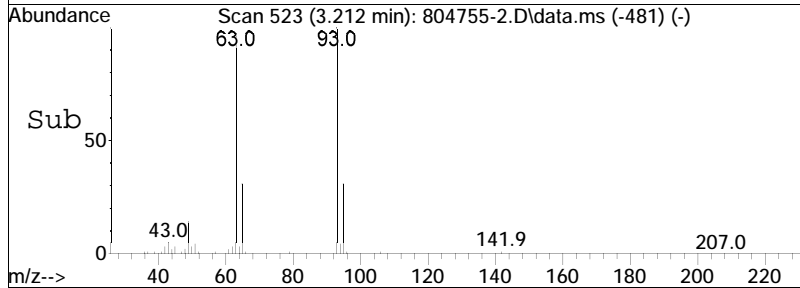
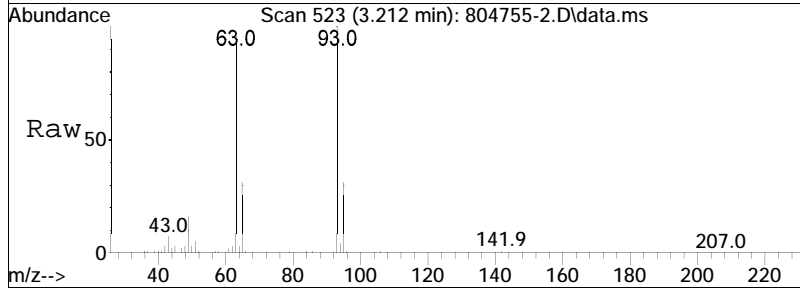
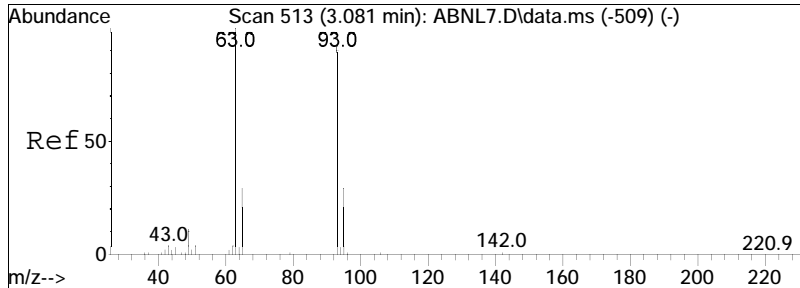




#8
 Phenol
 Concen: 33.29 ug/ml
 RT: 3.162 min Scan# 507
 Delta R.T. 0.009 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

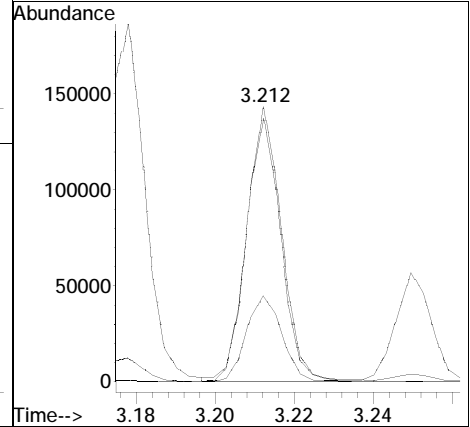
Tgt Ion	Ratio	Lower	Upper
94	100		
65	33.5	20.5	30.7#
66	39.2	0.0	0.0#

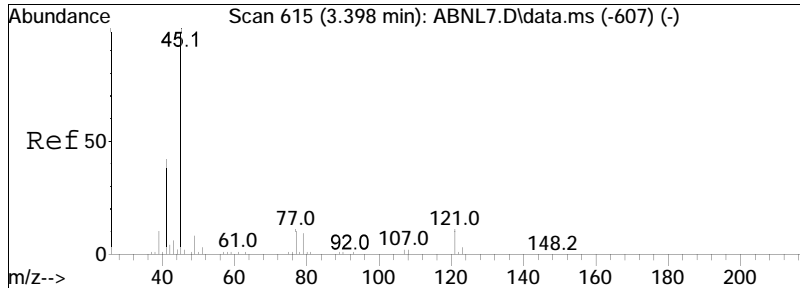




#9
 Bis(2-chloroethyl)ether
 Concen: 28.64 ug/ml
 RT: 3.212 min Scan# 523
 Delta R.T. 0.006 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

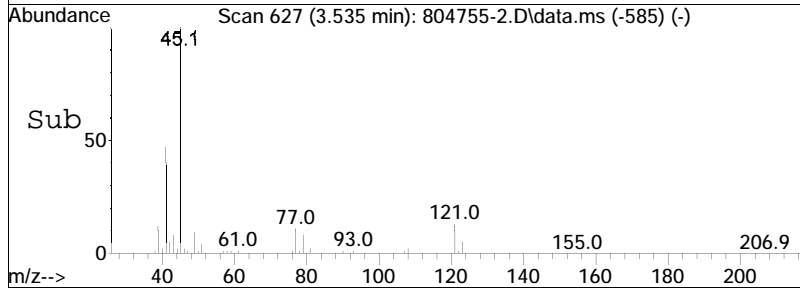
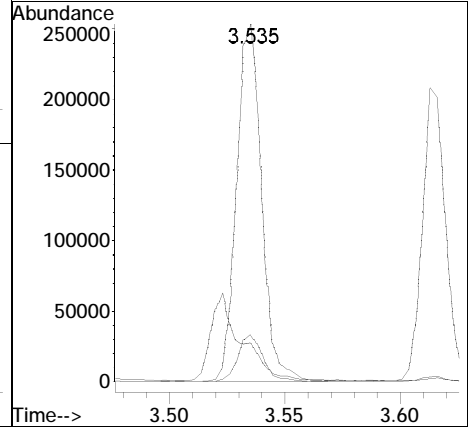
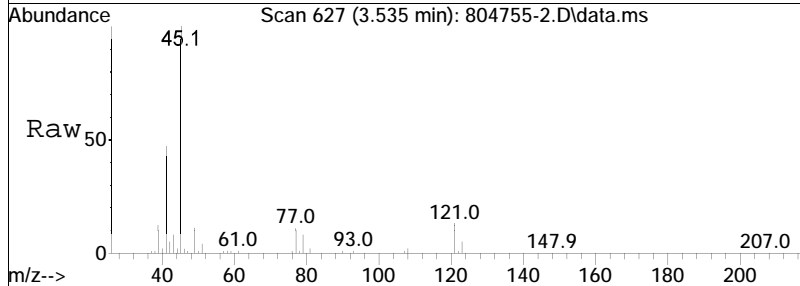
Tgt Ion	Resp	Lower	Upper
93	100		
63	94.7	70.4	105.6
95	32.5	25.8	38.6

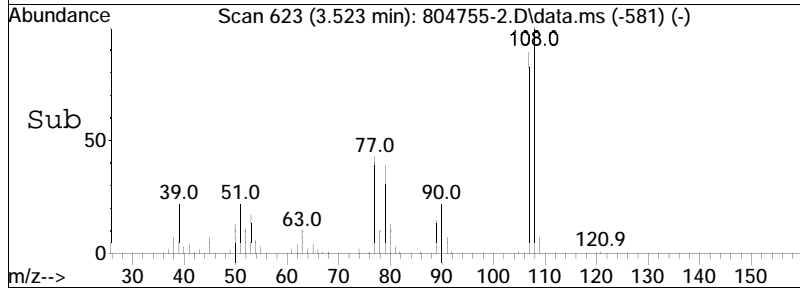
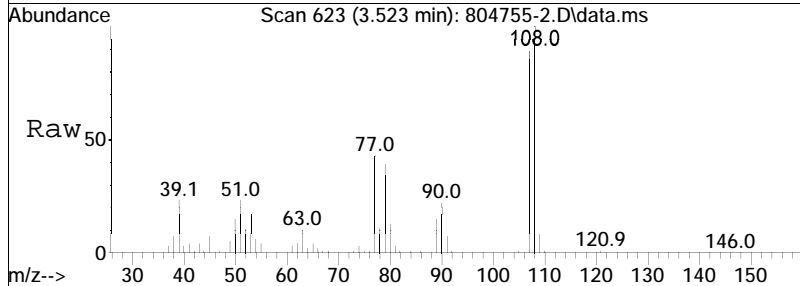
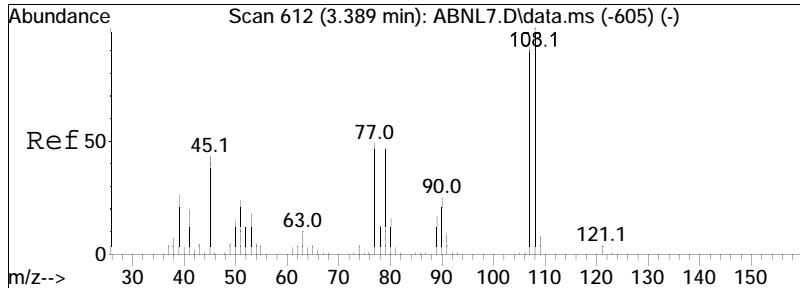




#14
 Bis(2-chloroisopropyl) ether
 Concen: 36.61 ug/ml
 RT: 3.535 min Scan# 627
 Delta R.T. 0.006 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

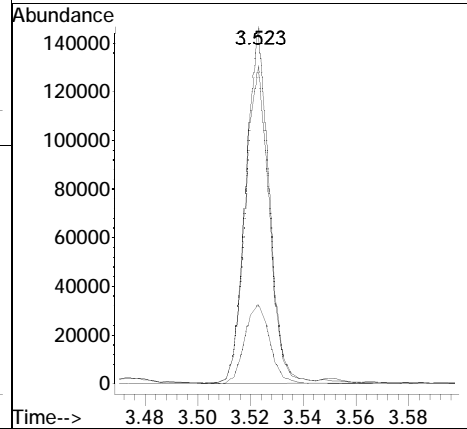
Tgt Ion	Resp	Lower	Upper
45	191800		
121	13.0	12.6	19.0
77	30.5	26.4	39.6

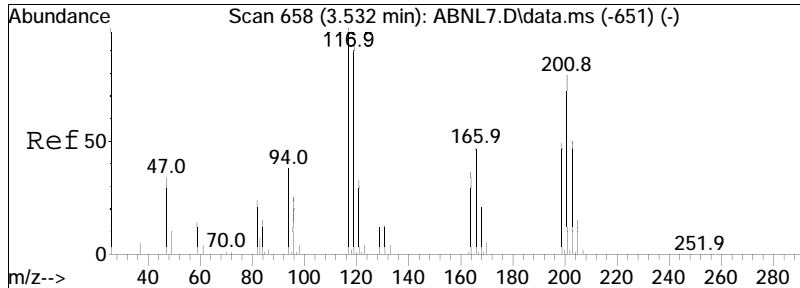




#15
 2-Methylphenol
 Concen: 29.97 ug/ml
 RT: 3.523 min Scan# 623
 Delta R.T. 0.006 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

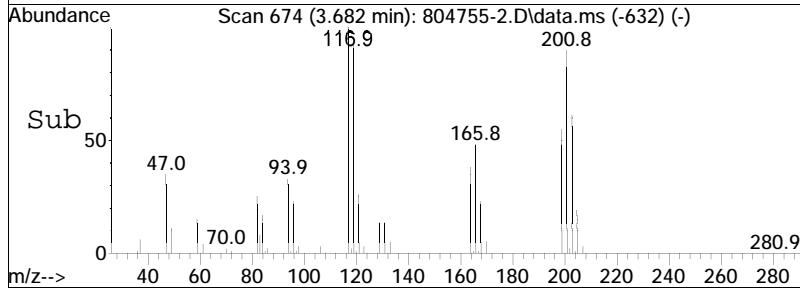
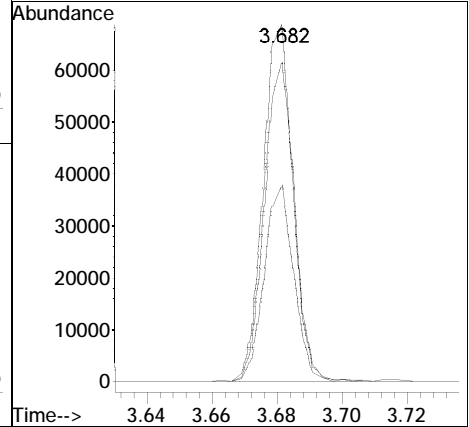
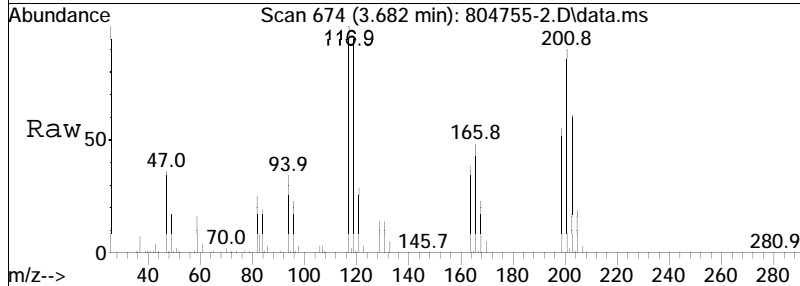
Tgt Ion	Ratio	Lower	Upper
108	100		
107	91.3	72.8	109.2
90	24.3	20.2	30.4

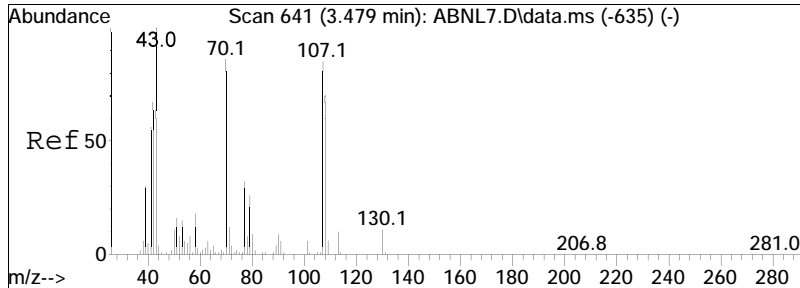




#16
 Hexachloroethane
 Concen: 28.94 ug/ml
 RT: 3.682 min Scan# 674
 Delta R.T. 0.006 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

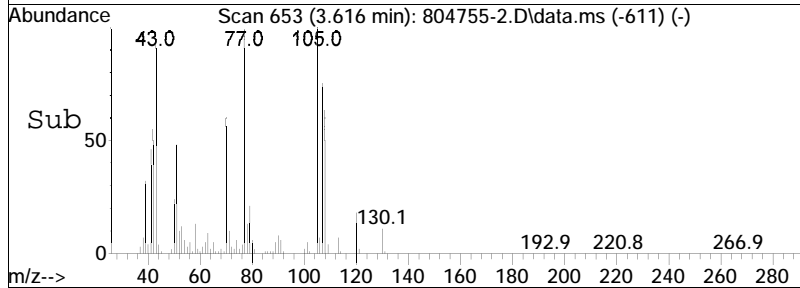
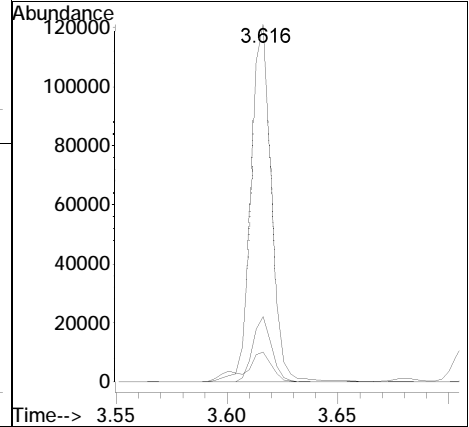
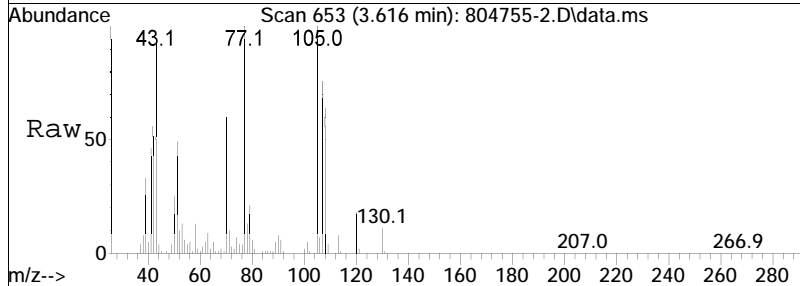
Tgt Ion	Resp	Lower	Upper
117	43230		
117	100		
201	90.4	64.5	96.7
199	55.0	40.3	60.5

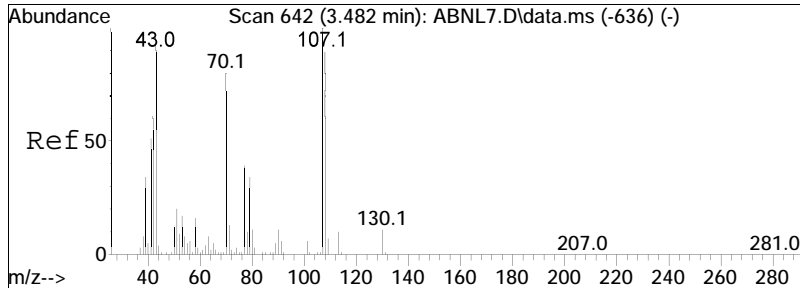




#17
 n-Nitrosodi-n-propylamine
 Concen: 32.63 ug/ml
 RT: 3.616 min Scan# 653
 Delta R.T. 0.006 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

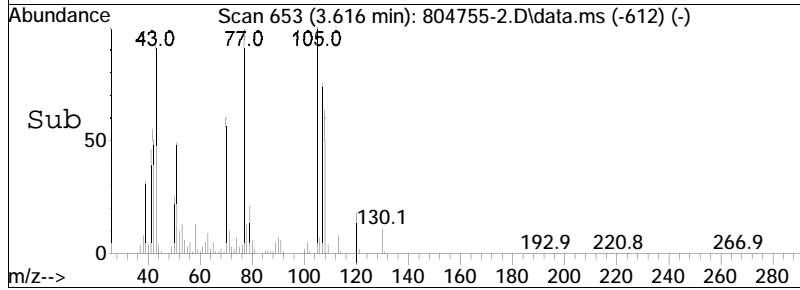
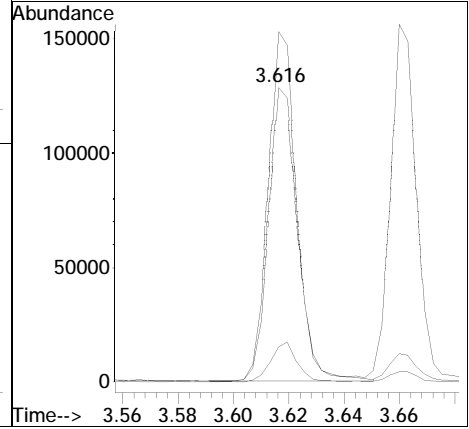
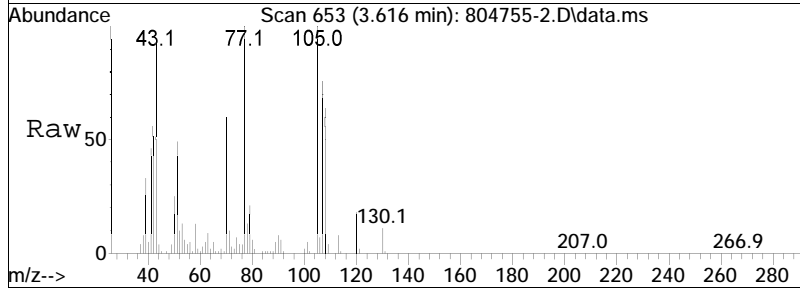
Tgt Ion	Resp	Lower	Upper
70	100		
130	16.8	15.0	22.4
101	8.1	7.4	11.0

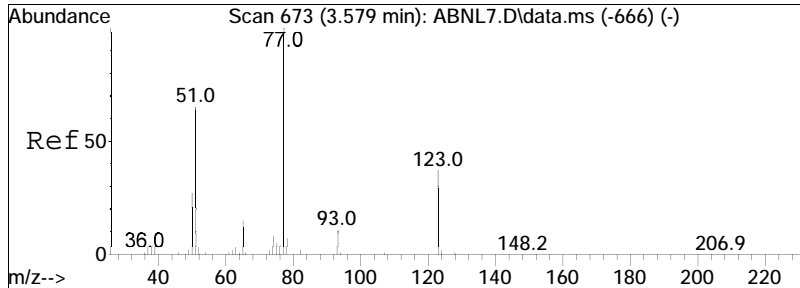




#18
 3-Methylphenol/4-Methylphenol
 Concen: 30.76 ug/ml
 RT: 3.616 min Scan# 653
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

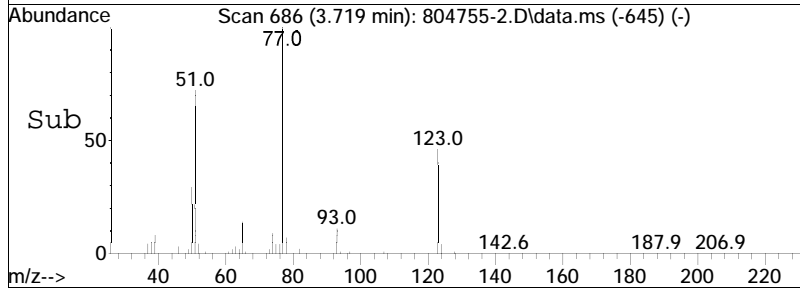
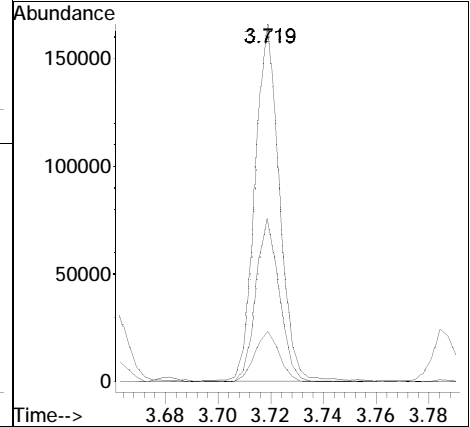
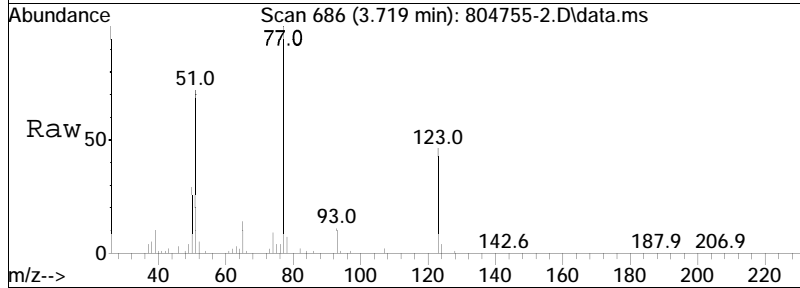
Tgt Ion	Ratio	Lower	Upper
108	100		
107	116.7	90.4	135.6
90	12.2	9.2	13.8

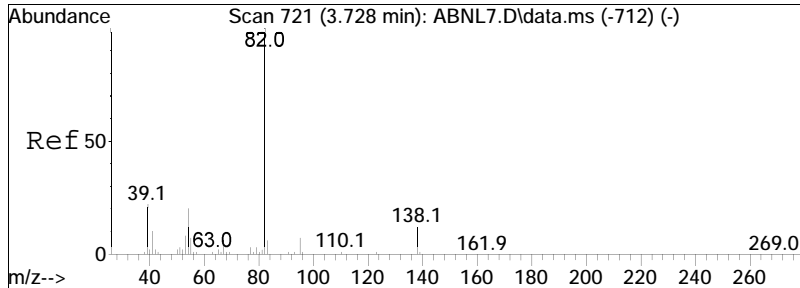




#20
 Nitrobenzene
 Concen: 30.07 ug/ml
 RT: 3.719 min Scan# 686
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

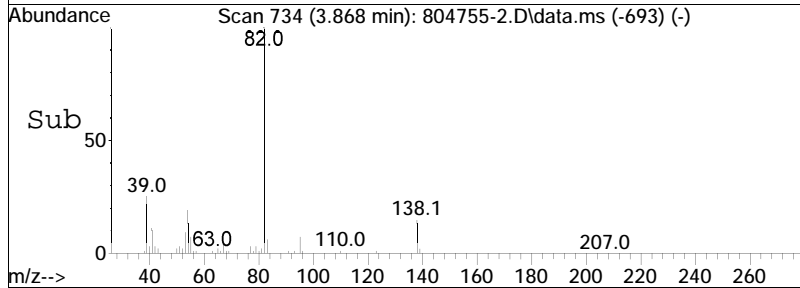
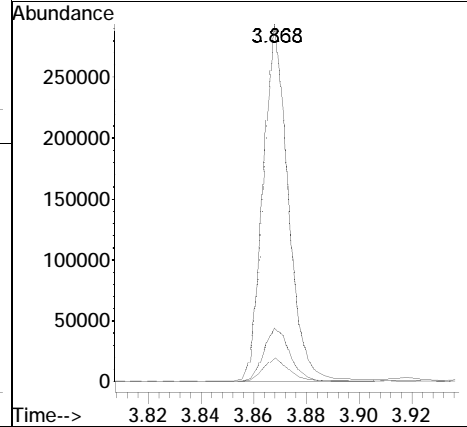
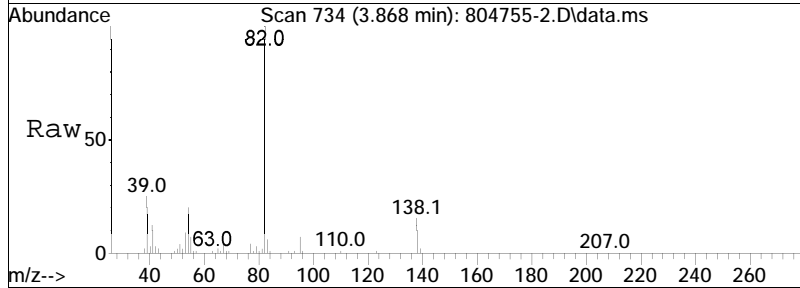
Tgt Ion	Resp	Lower	Upper
77	105121		
123	44.8	35.0	52.4
65	14.8	11.5	17.3

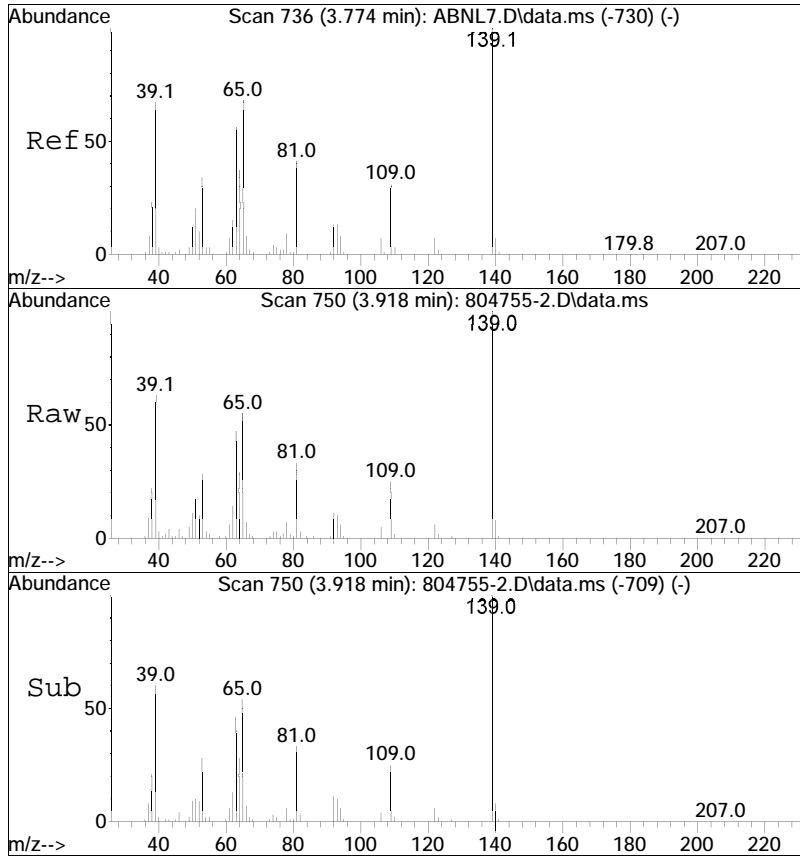




#21
 Isophorone
 Concen: 31.13 ug/ml
 RT: 3.868 min Scan# 734
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

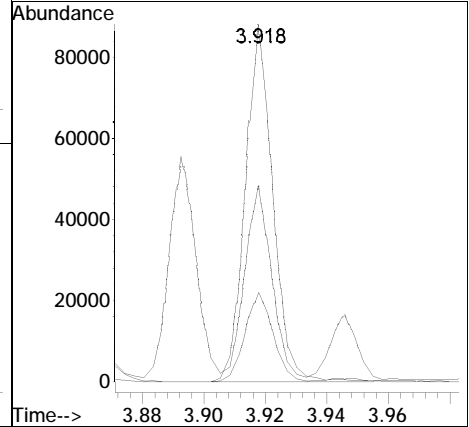
Tgt Ion	Resp	Lower	Upper
82	192589		
138	15.7	12.8	19.2
95	6.8	5.5	8.3

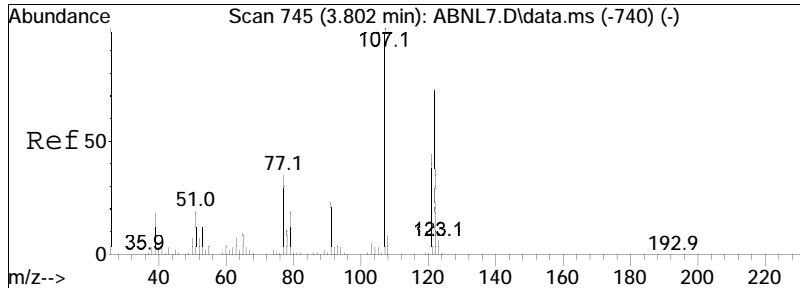




#22
 2-Nitrophenol
 Concen: 35.21 ug/ml
 RT: 3.918 min Scan# 750
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

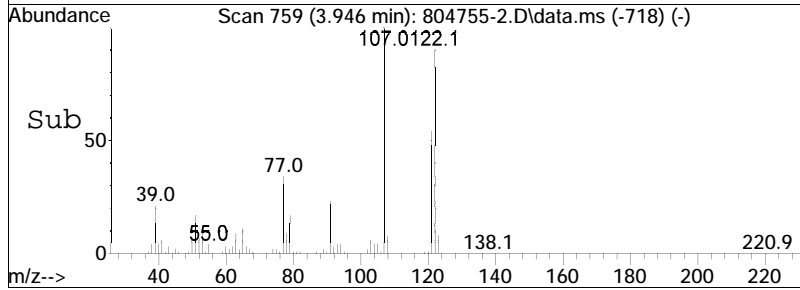
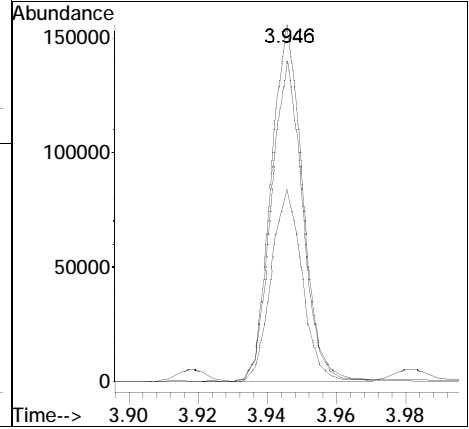
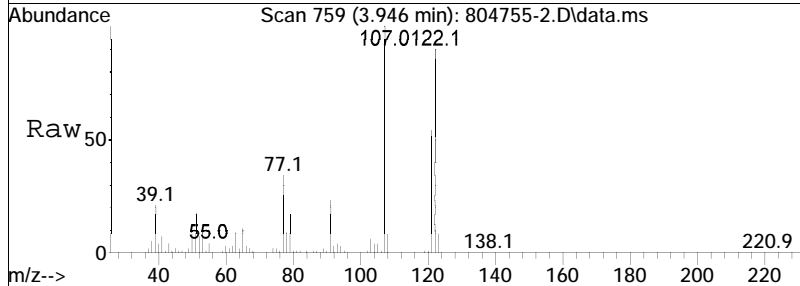
Tgt Ion	Resp	Lower	Upper
139	100		
109	25.5	24.8	37.2
65	54.2	45.5	68.3

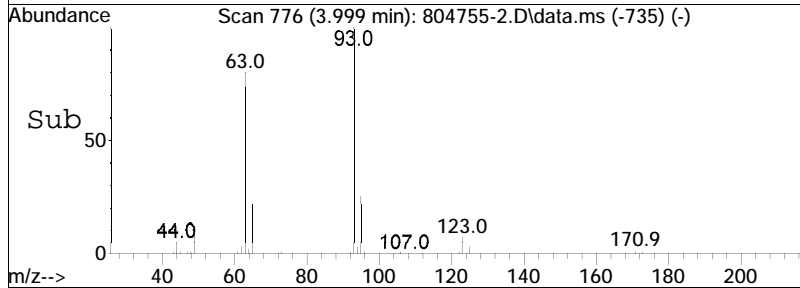
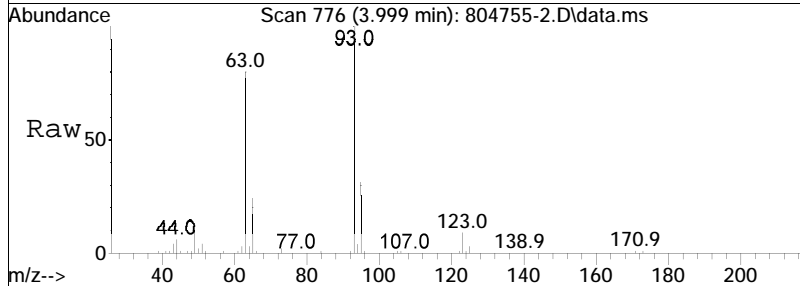
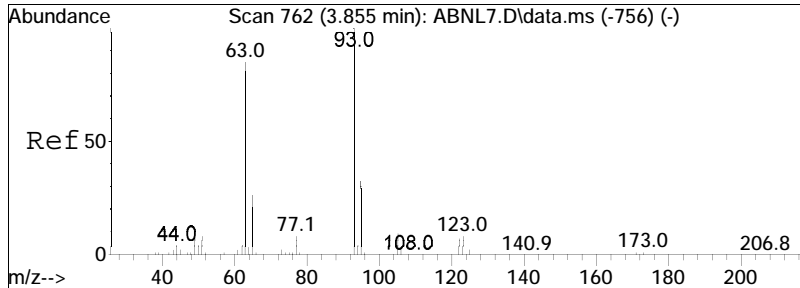




#23
 2,4-Dimethylphenol
 Concen: 29.93 ug/ml
 RT: 3.946 min Scan# 759
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

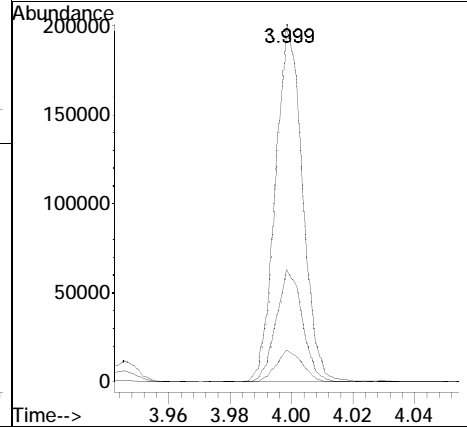
Tgt Ion	Resp	Lower	Upper
107	100		
121	54.1	39.7	59.5
122	88.9	66.8	100.2

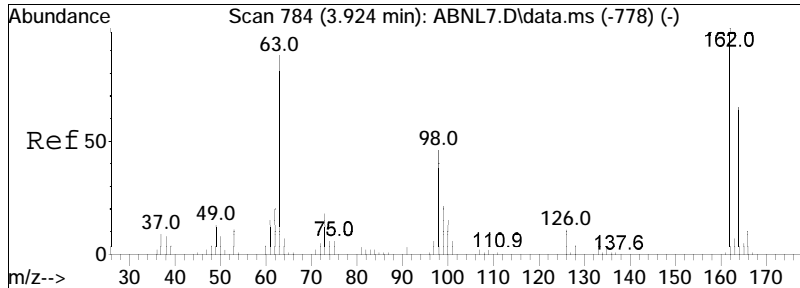




#24
 Bis(2-chloroethoxy)methane
 Concen: 30.75 ug/ml
 RT: 3.999 min Scan# 776
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

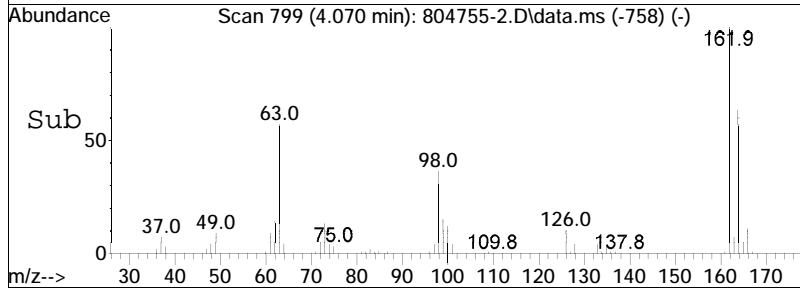
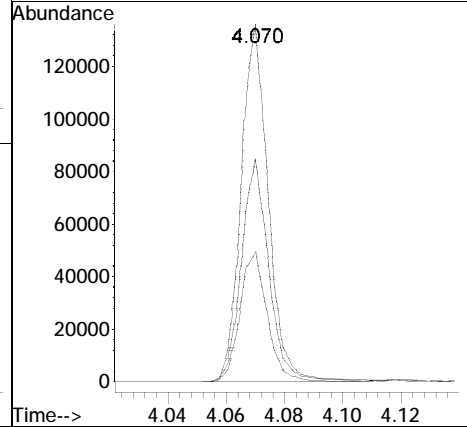
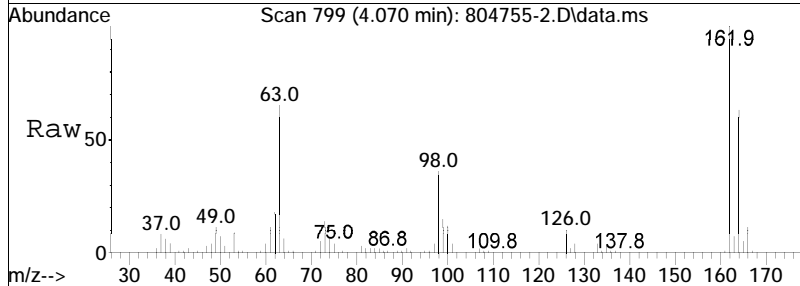
Tgt Ion:	93	Resp:	121532
Ion Ratio	100	Lower	Upper
93	100		
95	30.8	26.1	39.1
123	9.1	9.8	14.8#

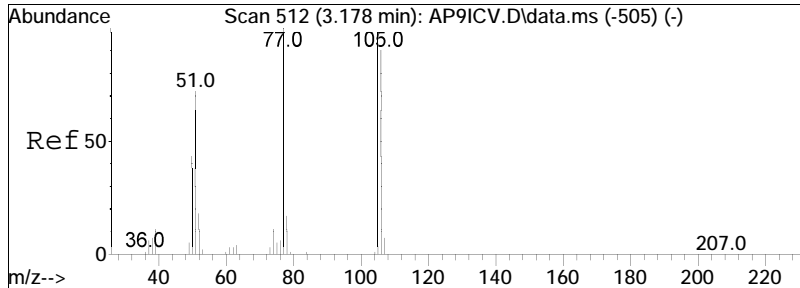




#25
 2,4-Dichlorophenol
 Concen: 31.25 ug/ml
 RT: 4.070 min Scan# 799
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

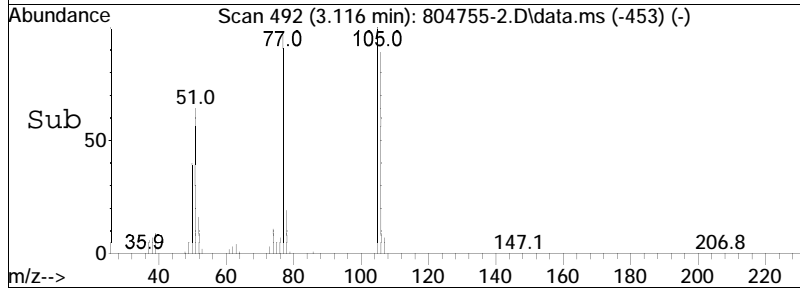
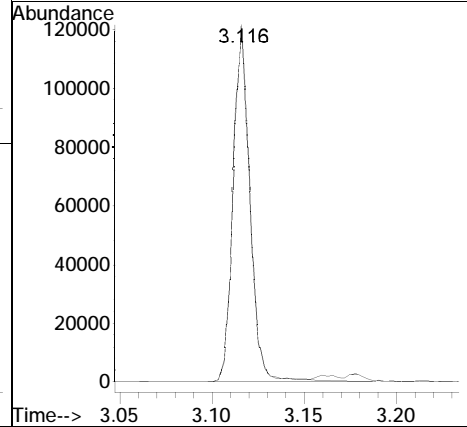
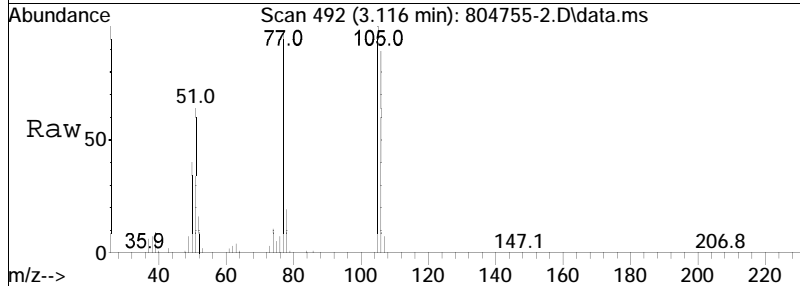
Tgt Ion	Resp	Lower	Upper
162	87165		
162	100		
164	62.9	50.4	75.6
98	36.7	31.6	47.4

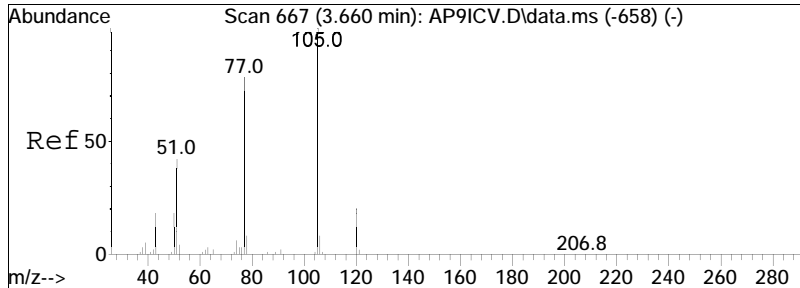




#28
 Benzaldehyde
 Concen: 39.37 ug/ml
 RT: 3.116 min Scan# 492
 Delta R.T. -0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

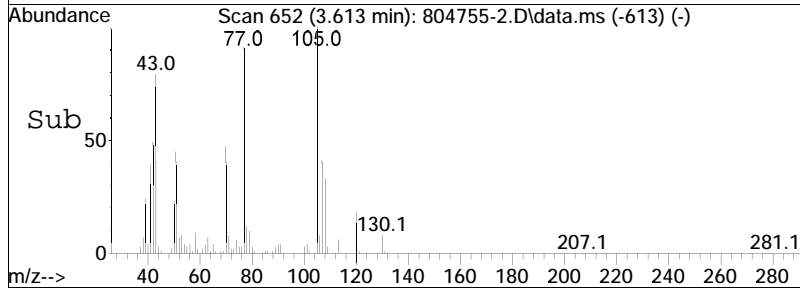
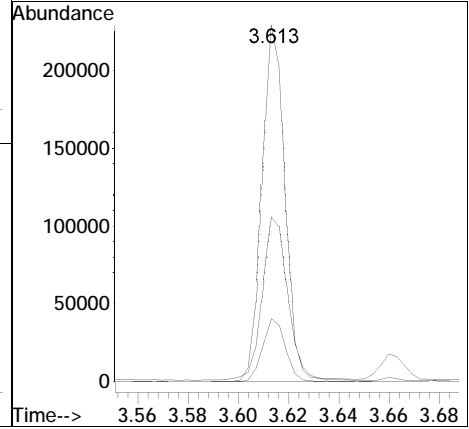
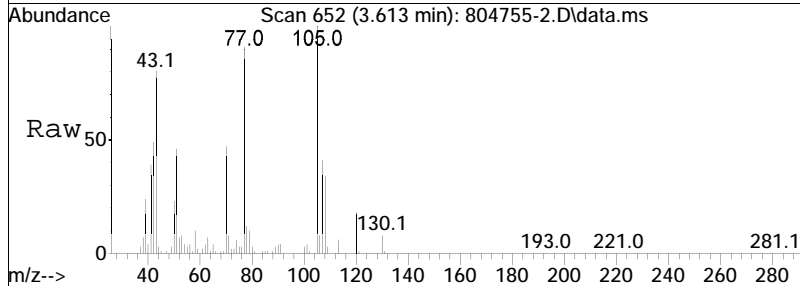
Tgt Ion: 105 Resp: 77392
 Ion Ratio Lower Upper
 105 100
 77 97.4 72.0 108.0

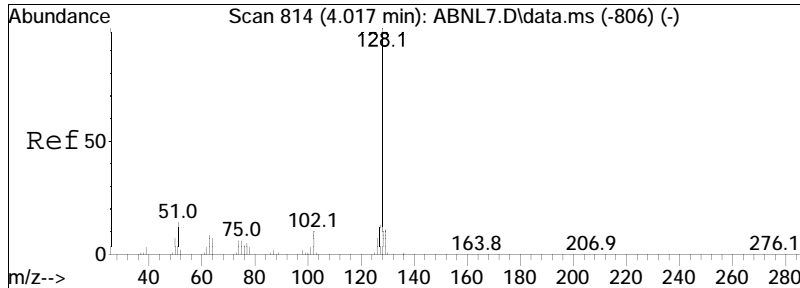




#29
 Acetophenone
 Concen: 32.54 ug/ml
 RT: 3.613 min Scan# 652
 Delta R.T. -0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

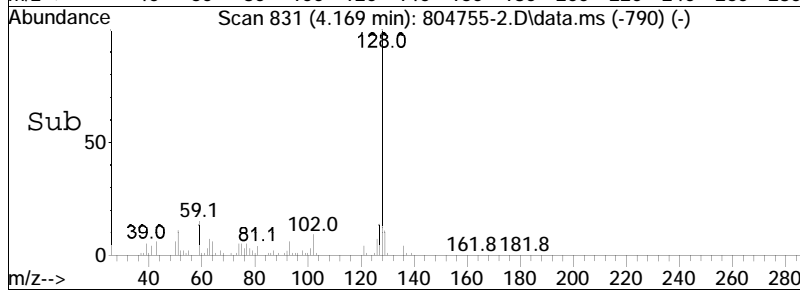
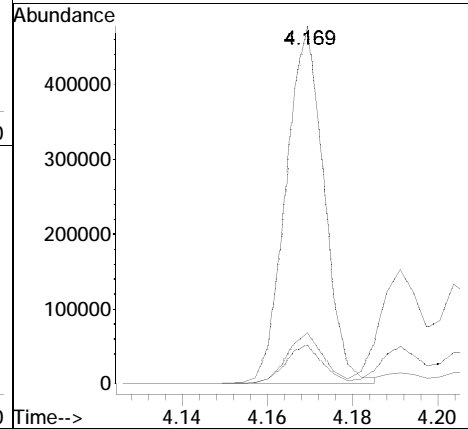
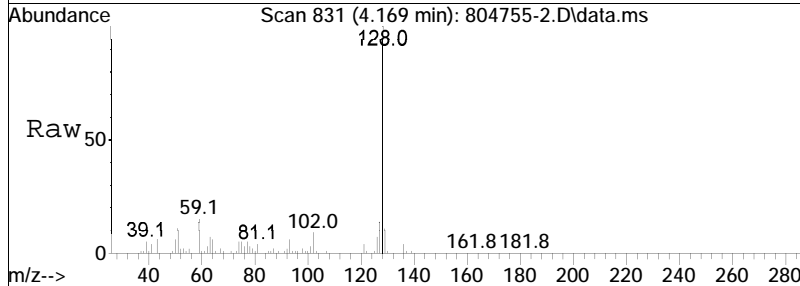
Tgt Ion	Ratio	Lower	Upper
105	100		
120	17.4	18.0	27.0#
51	51.0	23.8	35.6#

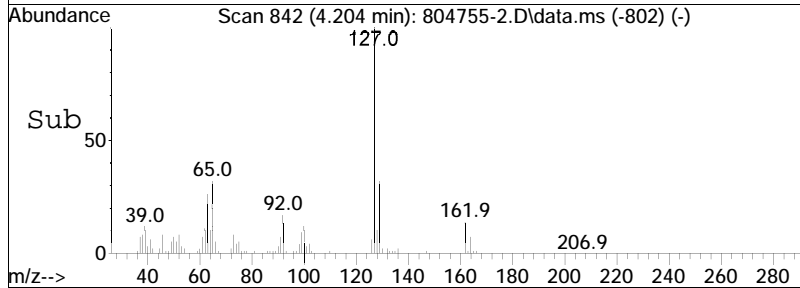
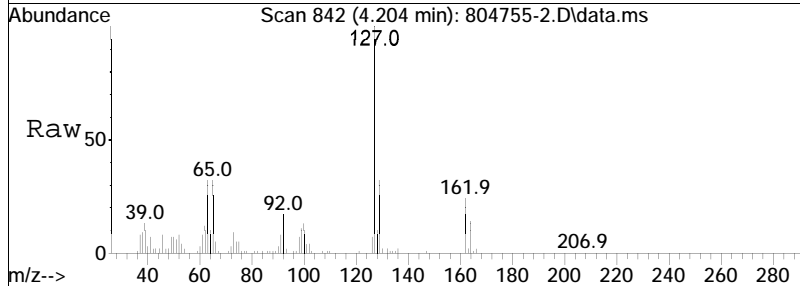
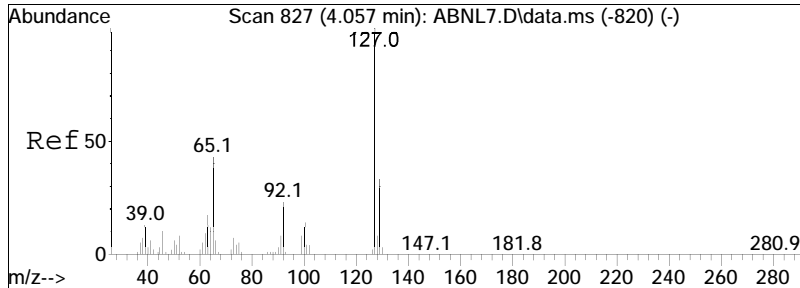




#36
 Naphthalene
 Concen: 28.46 ug/ml
 RT: 4.169 min Scan# 831
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

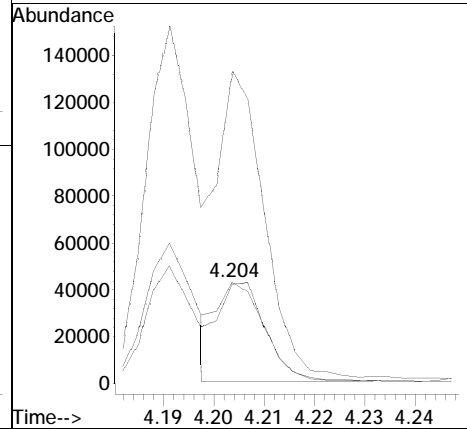
Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.7	13.1
127	13.7	10.7	16.1

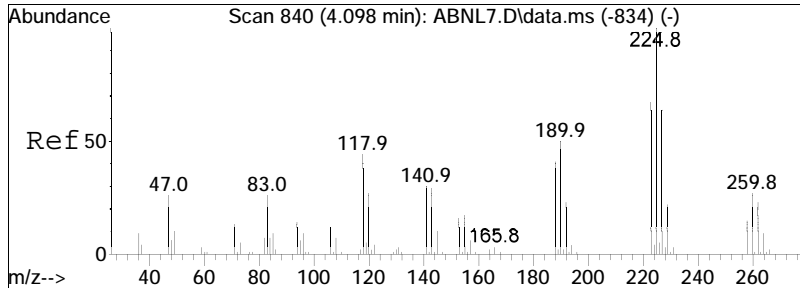




#38
 4-Chloroaniline
 Concen: 22.15 ug/ml
 RT: 4.204 min Scan# 842
 Delta R.T. -0.000 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

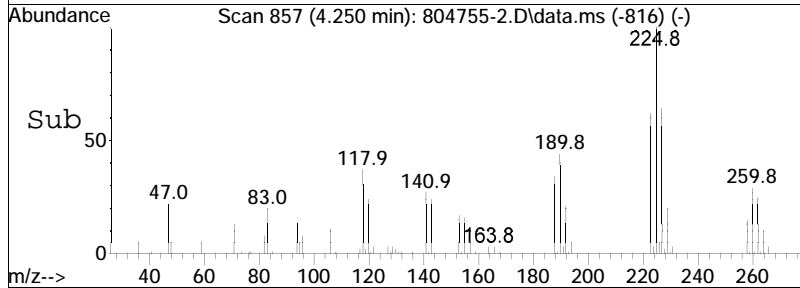
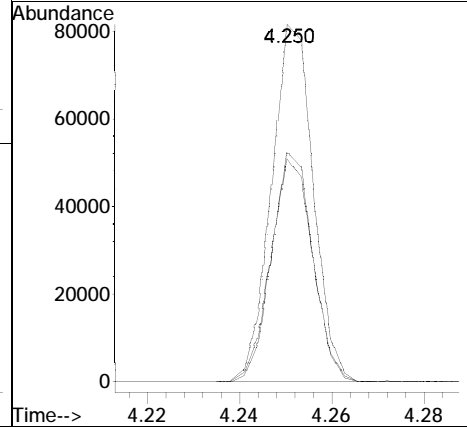
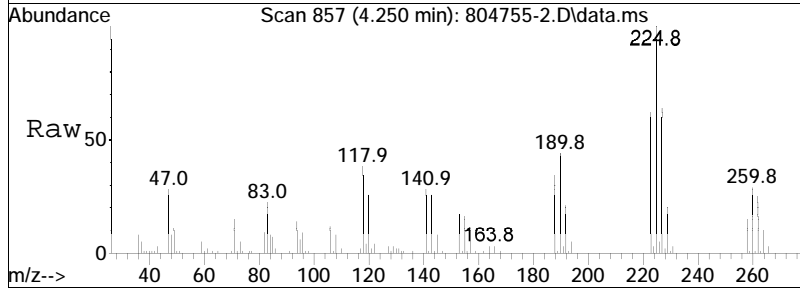
Tgt Ion:	Resp:	Lower	Upper
65	100		
127	323.3	233.2	349.8
129	104.1	74.6	111.8

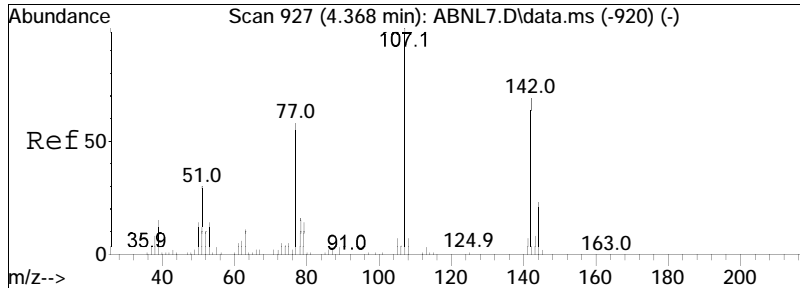




#39
 Hexachlorobutadiene
 Concen: 24.78 ug/ml
 RT: 4.250 min Scan# 857
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

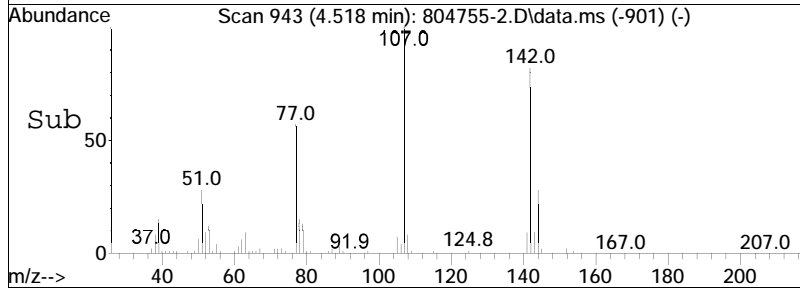
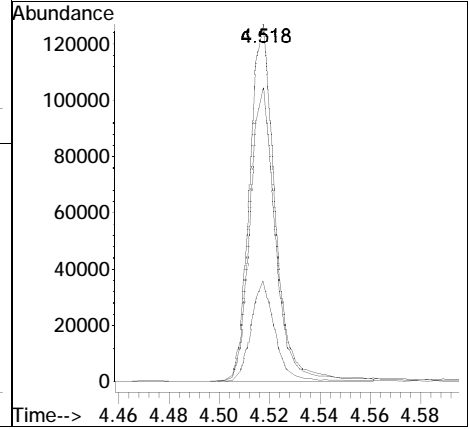
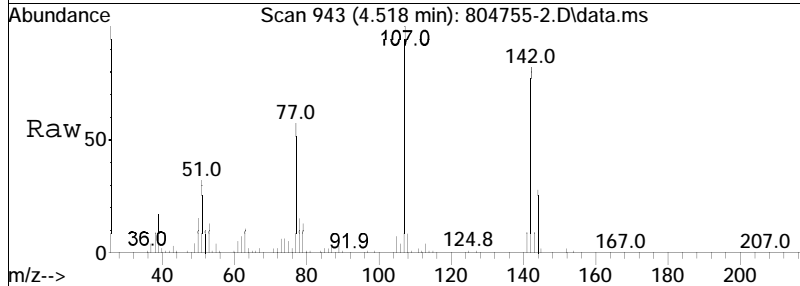
Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.9	49.4	74.0
227	63.2	50.8	76.2

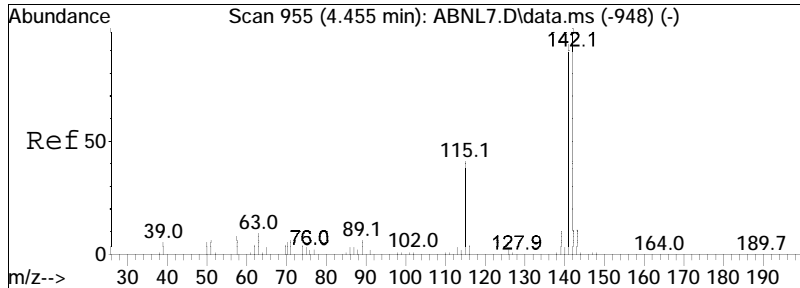




#40
 p-Chloro-m-cresol
 Concen: 31.68 ug/ml
 RT: 4.518 min Scan# 943
 Delta R.T. 0.006 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

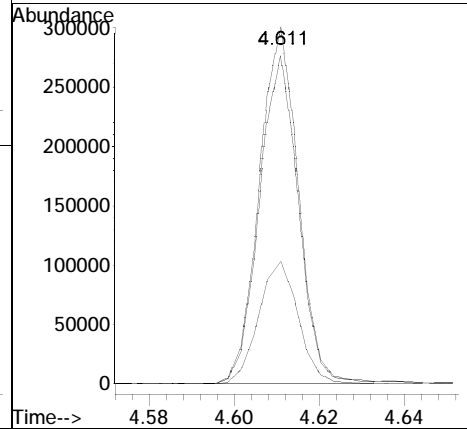
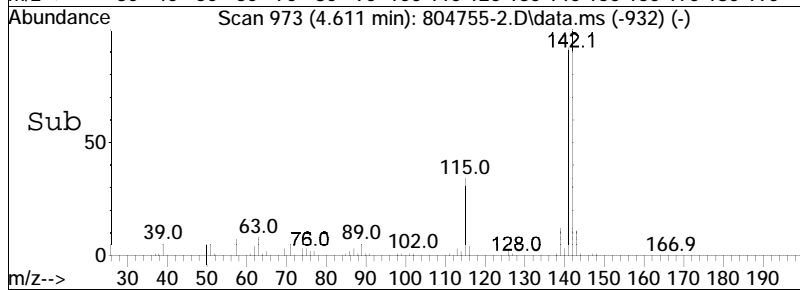
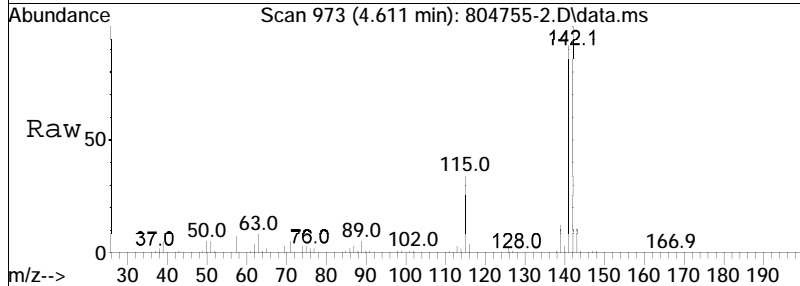
Tgt Ion	Resp	Lower	Upper
107	100		
144	26.8	19.6	29.4
142	82.8	62.2	93.4

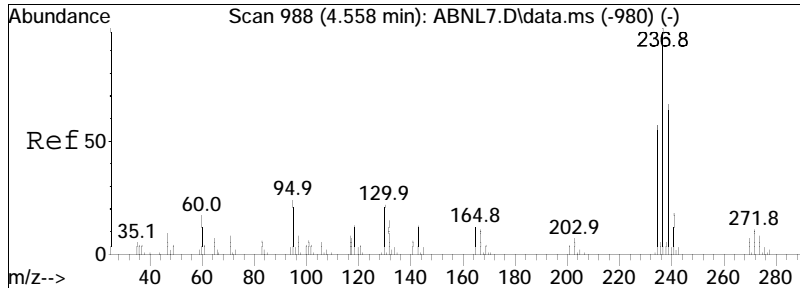




#41
 2-Methylnaphthalene
 Concen: 28.35 ug/ml
 RT: 4.611 min Scan# 973
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

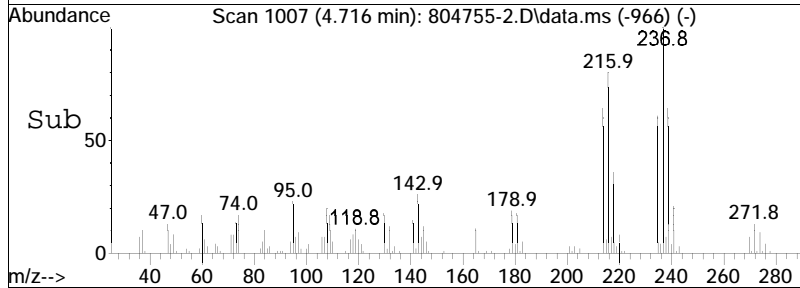
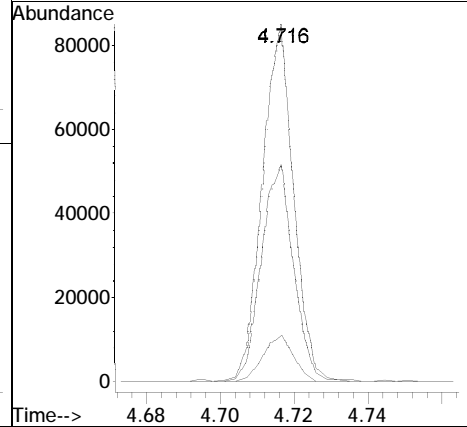
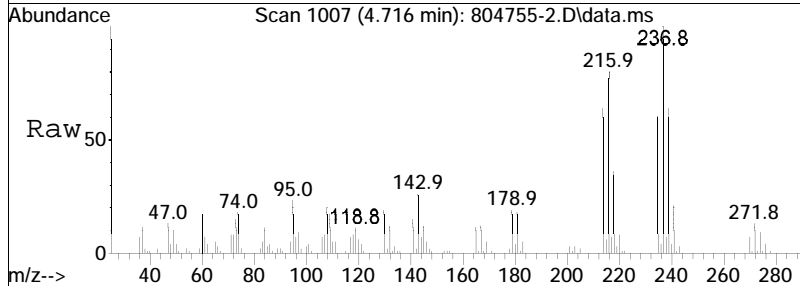
Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.9	71.8	107.8
115	35.3	29.1	43.7

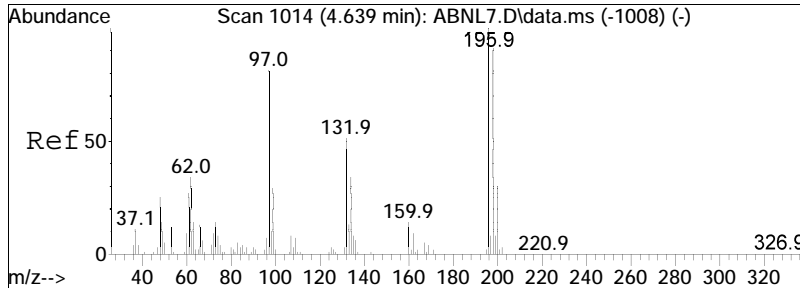




#43
 Hexachlorocyclopentadiene
 Concen: 18.62 ug/ml
 RT: 4.716 min Scan# 1007
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

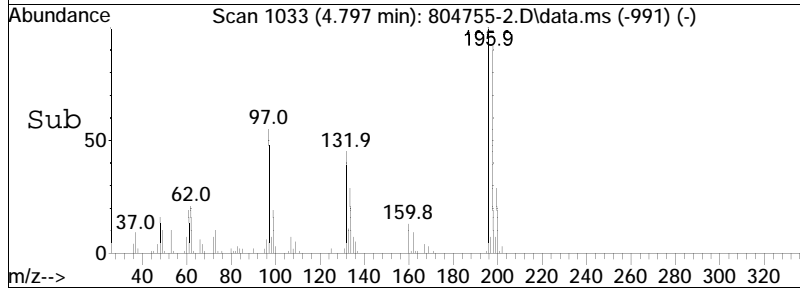
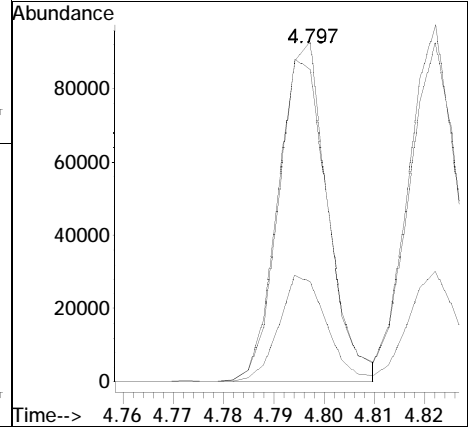
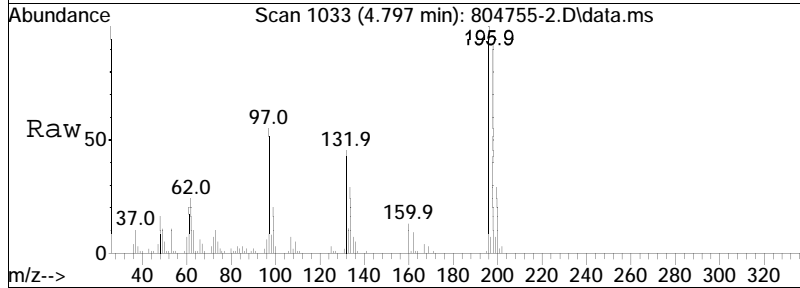
Tgt Ion	Resp	Lower	Upper
237	100		
235	62.8	47.8	71.6
272	12.7	10.4	15.6

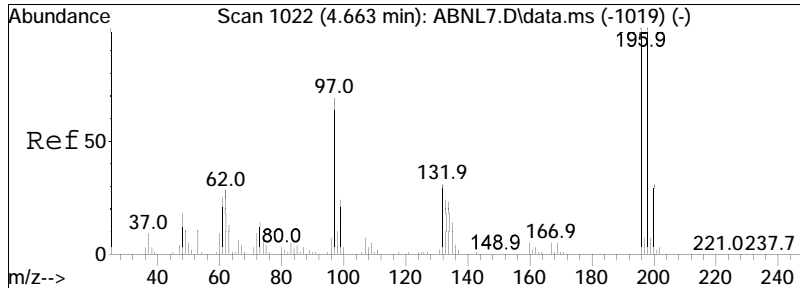




#44
 2,4,6-Trichlorophenol
 Concen: 30.19 ug/ml
 RT: 4.797 min Scan# 1033
 Delta R.T. 0.006 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

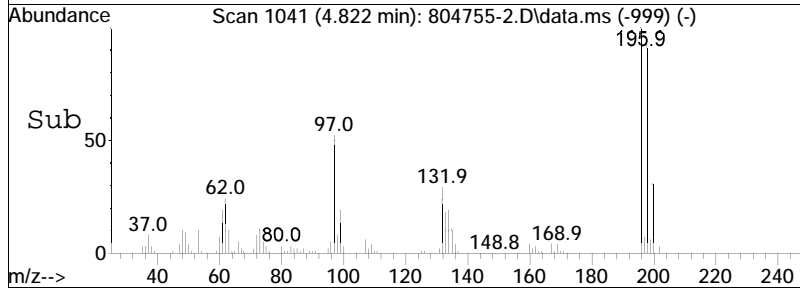
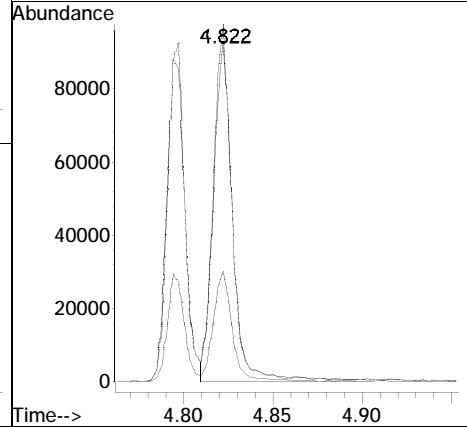
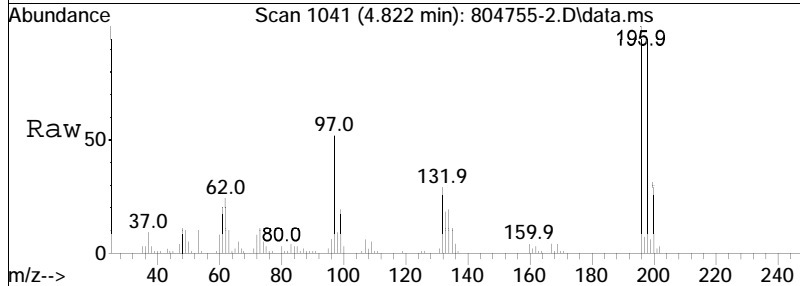
Tgt Ion	Resp	Lower	Upper
196	63055		
196	100		
198	95.9	81.5	122.3
200	30.5	26.2	39.2

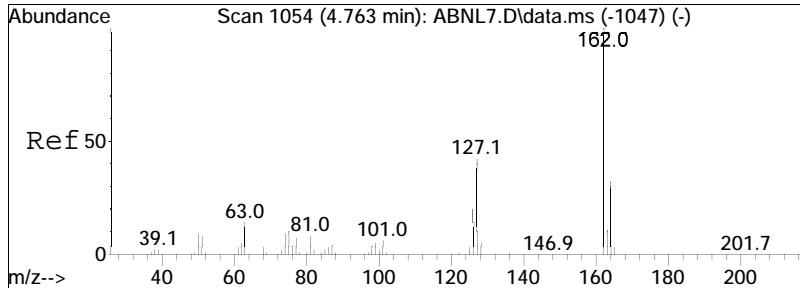




#45
 2,4,5-Trichlorophenol
 Concen: 30.90 ug/ml
 RT: 4.822 min Scan# 1041
 Delta R.T. 0.006 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

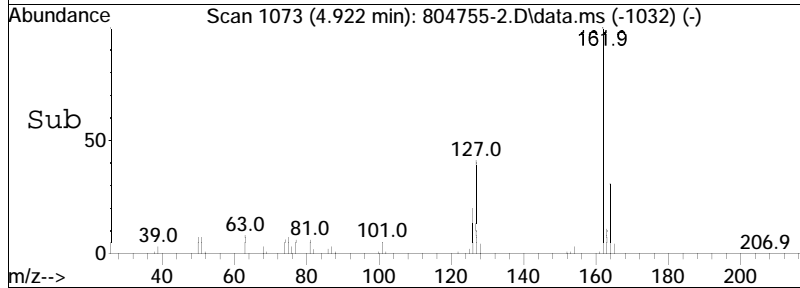
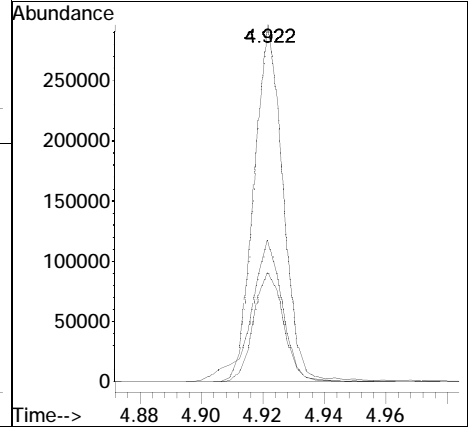
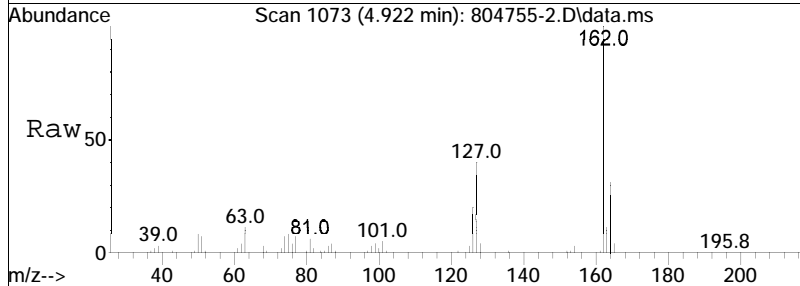
Tgt Ion	Resp	Lower	Upper
196	100		
200	30.7	25.5	38.3
198	92.7	79.2	118.8

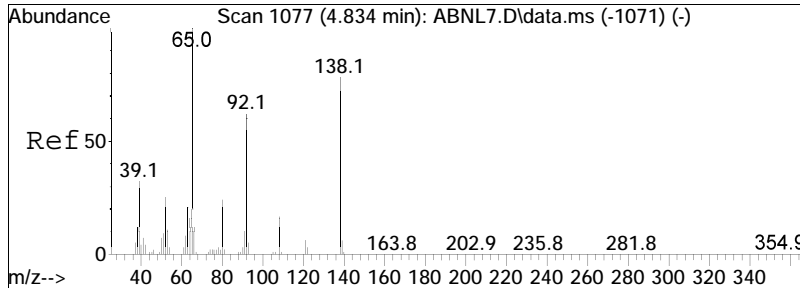




#47
 2-Chloronaphthalene
 Concen: 28.51 ug/ml
 RT: 4.922 min Scan# 1073
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

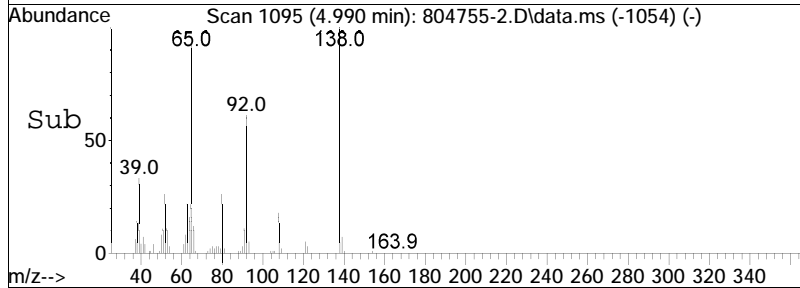
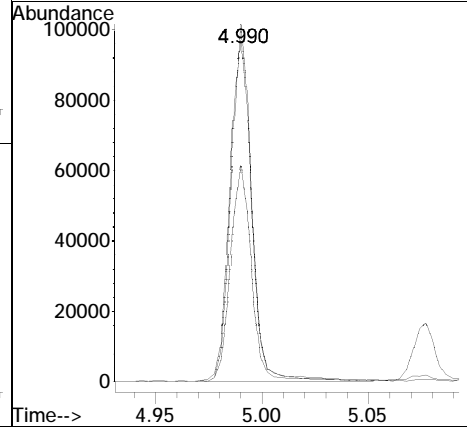
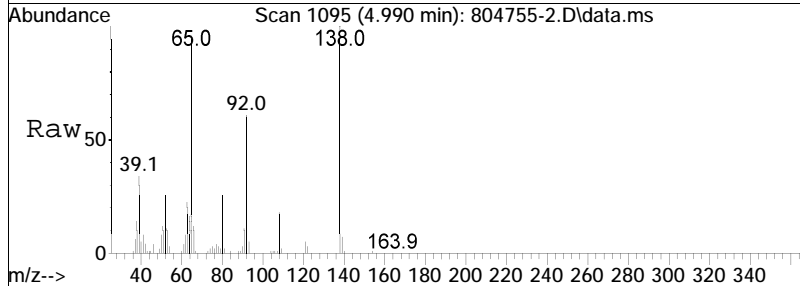
Tgt Ion	Resp	Lower	Upper
162	192829		
127	43.7	33.6	50.4
164	31.8	25.8	38.8

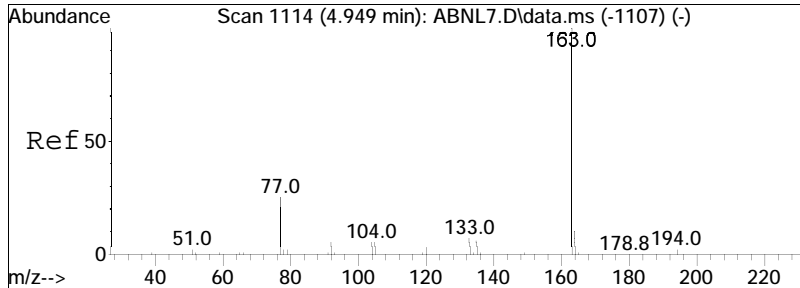




#48
 2-Nitroaniline
 Concen: 34.43 ug/ml
 RT: 4.990 min Scan# 1095
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

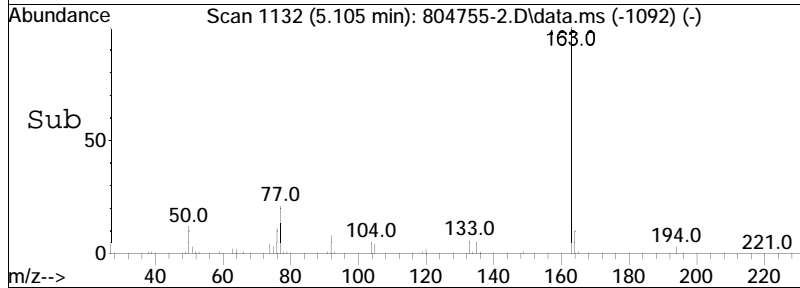
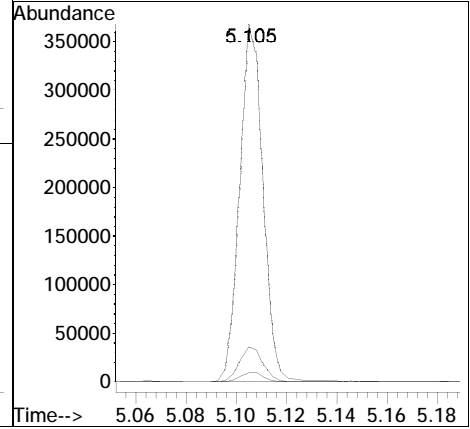
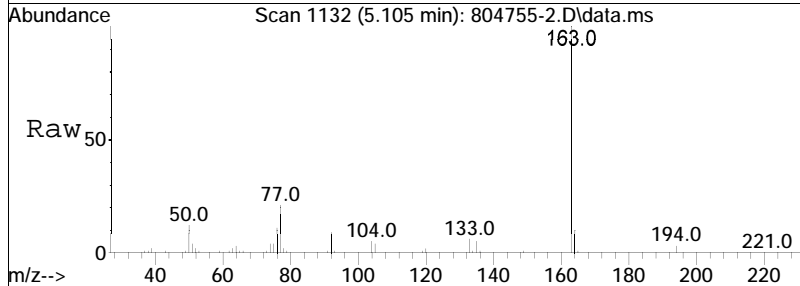
Tgt Ion	Resp	Lower	Upper
138	100		
92	62.0	54.2	81.2
65	100.7	82.8	124.2

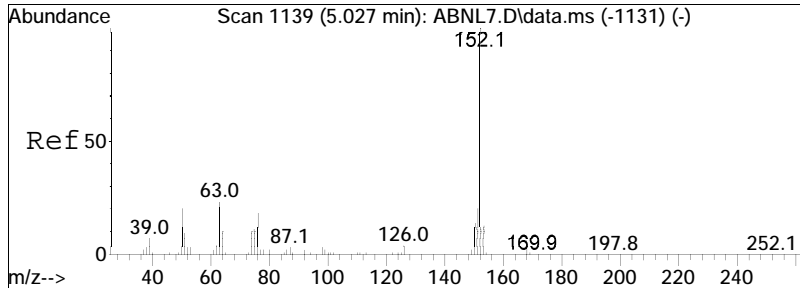




#51
 Dimethyl phthalate
 Concen: 29.58 ug/ml
 RT: 5.105 min Scan# 1132
 Delta R.T. -0.000 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

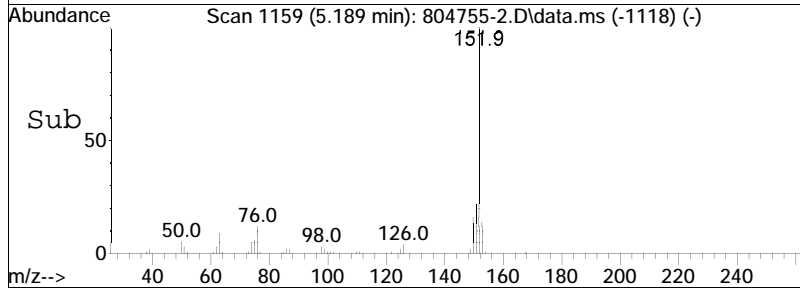
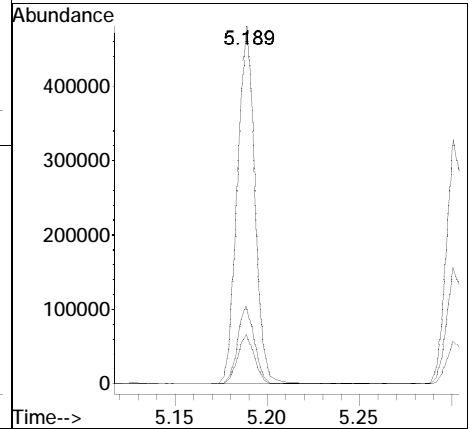
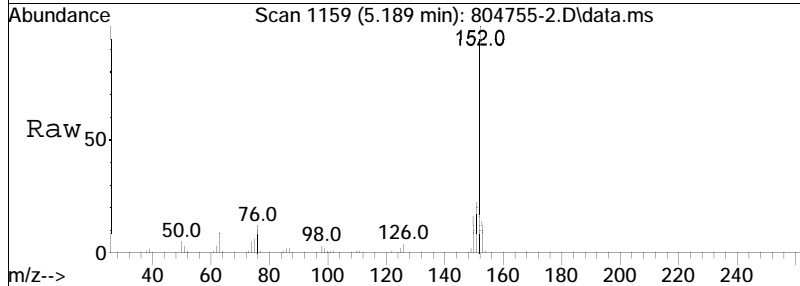
Tgt Ion	Ratio	Lower	Upper
163	100		
194	2.6	2.6	4.0
164	10.0	8.2	12.4

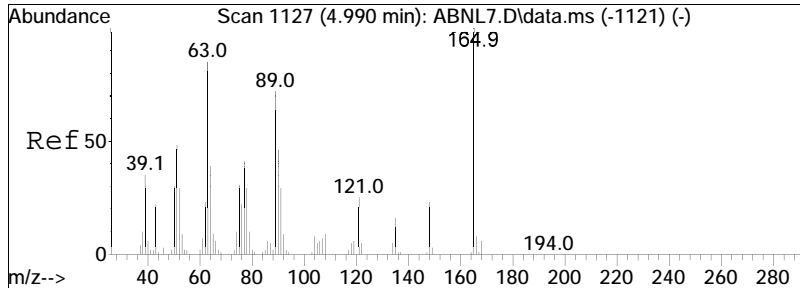




#52
 Acenaphthylene
 Concen: 30.40 ug/ml
 RT: 5.189 min Scan# 1159
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

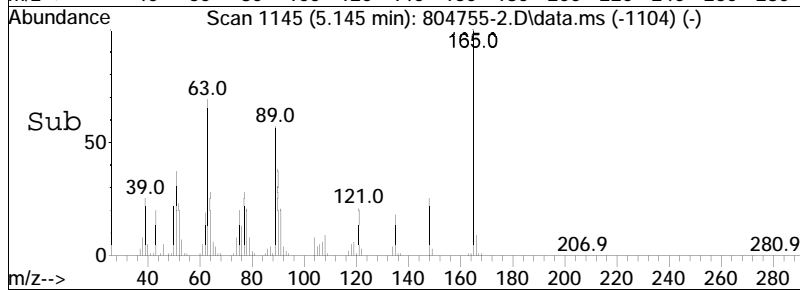
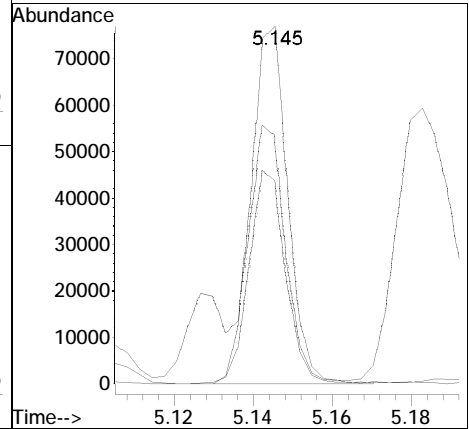
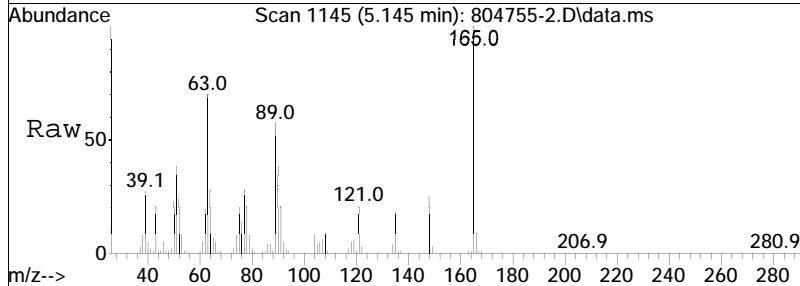
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.4	24.6
153	13.3	11.0	16.6

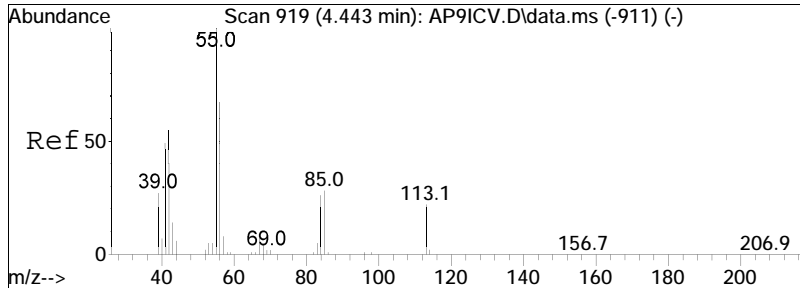




#53
 2,6-Dinitrotoluene
 Concen: 31.59 ug/ml
 RT: 5.145 min Scan# 1145
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

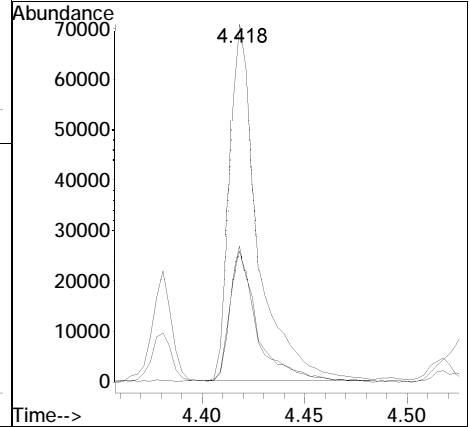
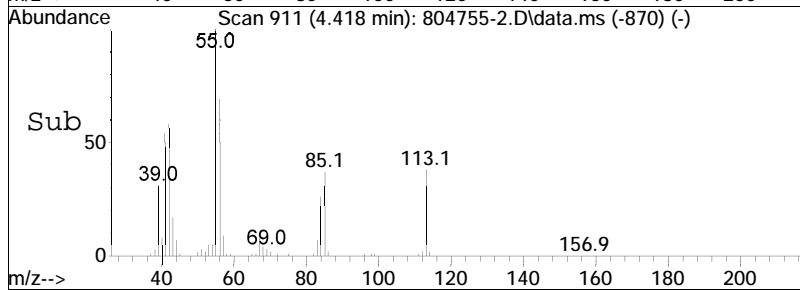
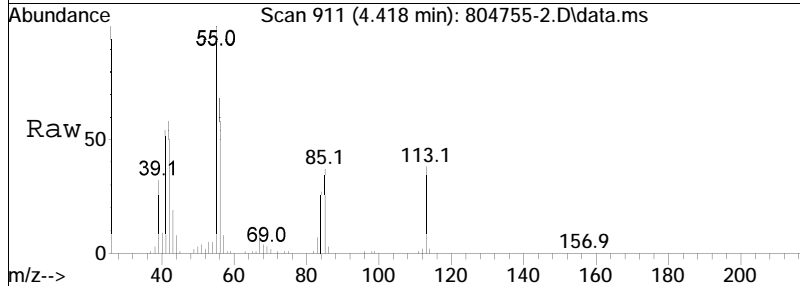
Tgt Ion	Resp	Lower	Upper
165	100		
89	59.1	50.4	75.6
63	72.3	56.9	85.3

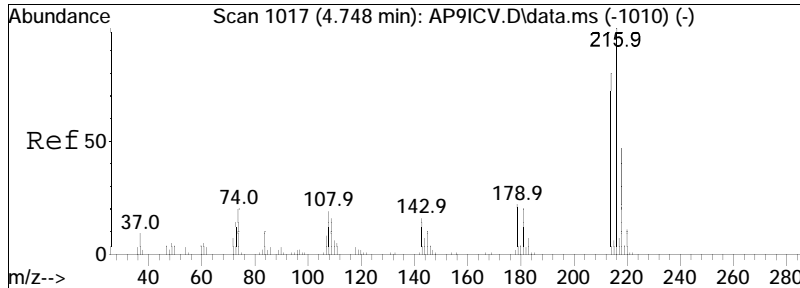




#60
 Caprolactam
 Concen: 40.70 ug/ml
 RT: 4.418 min Scan# 911
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

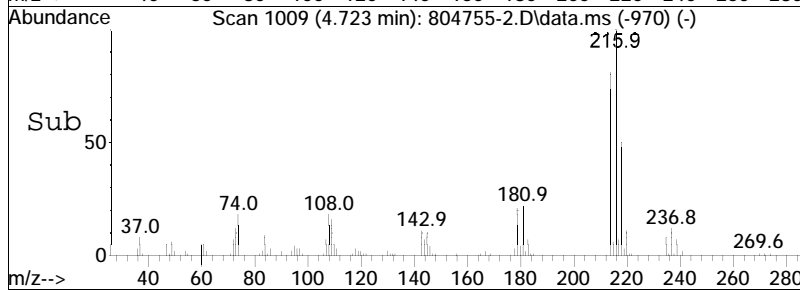
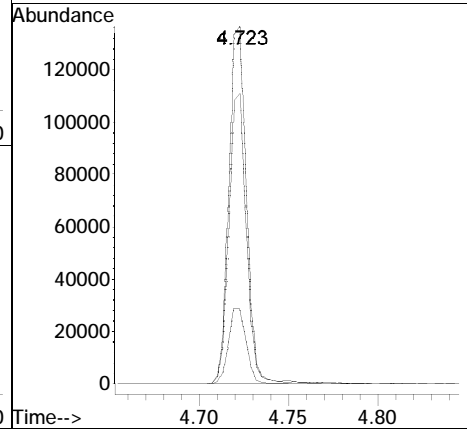
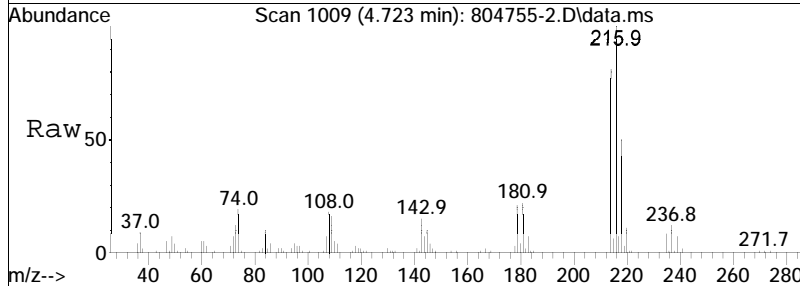
Tgt Ion	Resp	Lower	Upper
55	100		
85	37.1	32.6	48.8
113	37.5	44.6	66.8#

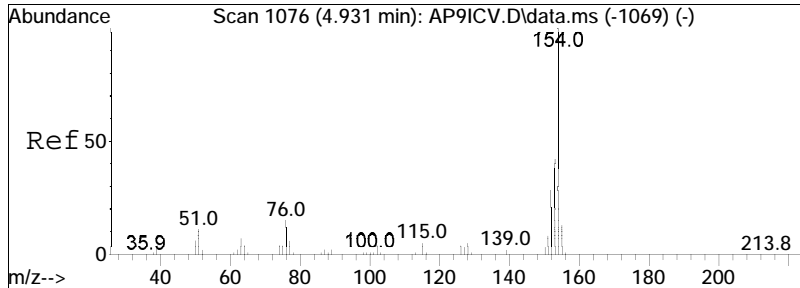




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 25.12 ug/ml
 RT: 4.723 min Scan# 1009
 Delta R.T. -0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

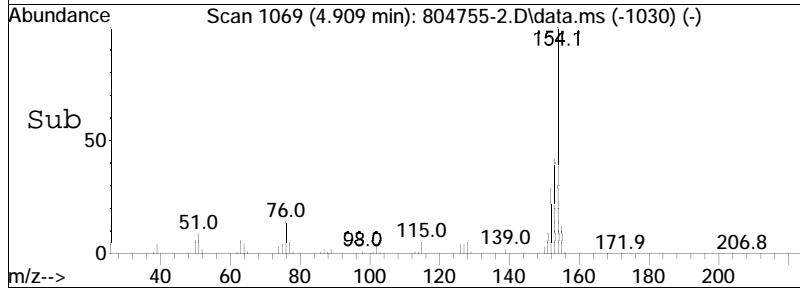
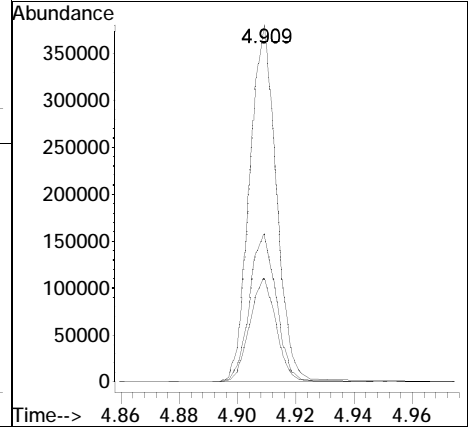
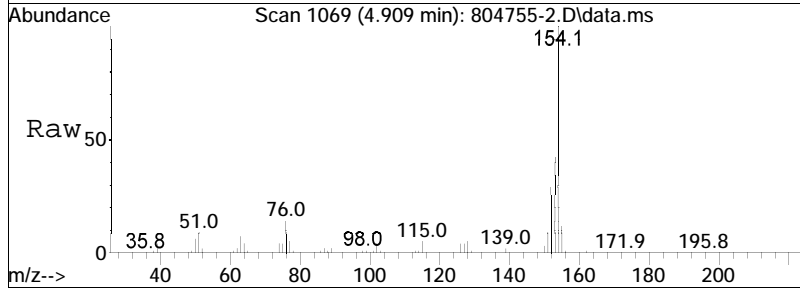
Tgt Ion	Resp	Lower	Upper
216	100		
214	79.4	63.0	94.6
179	21.4	17.4	26.2

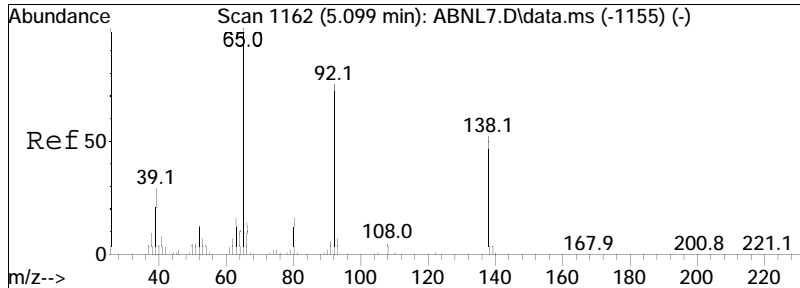




#62
 Biphenyl
 Concen: 28.98 ug/ml
 RT: 4.909 min Scan# 1069
 Delta R.T. -0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

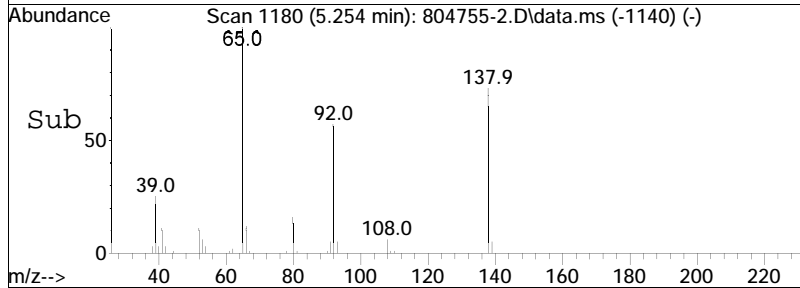
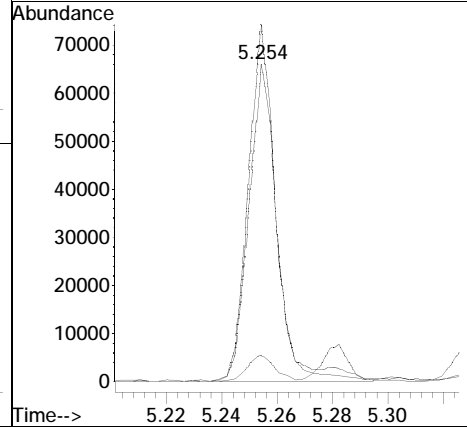
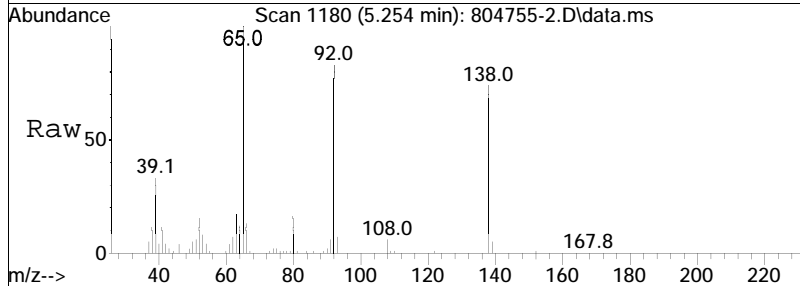
Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.7	33.5	50.3
152	28.9	22.6	34.0

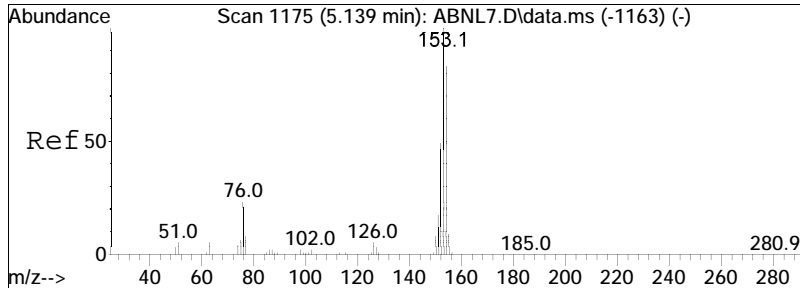




#64
 3-Nitroaniline
 Concen: 25.85 ug/ml
 RT: 5.254 min Scan# 1180
 Delta R.T. -0.000 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

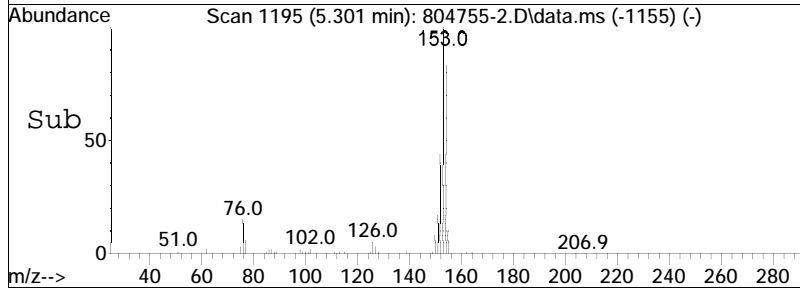
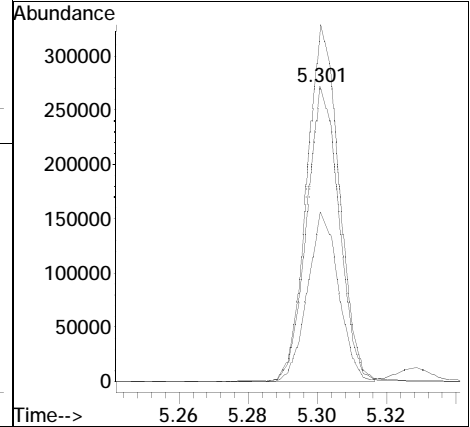
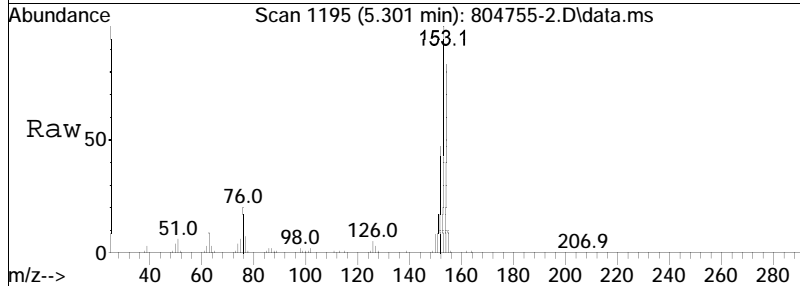
Tgt Ion	Ratio	Lower	Upper
138	100		
92	109.5	95.4	143.2
108	8.3	8.6	12.8#

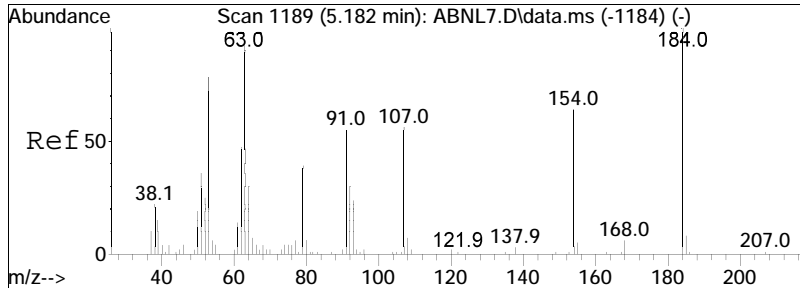




#65
 Acenaphthene
 Concen: 27.11 ug/ml
 RT: 5.301 min Scan# 1195
 Delta R.T. -0.000 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

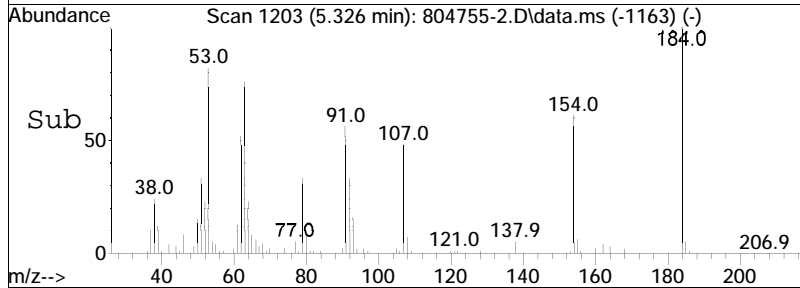
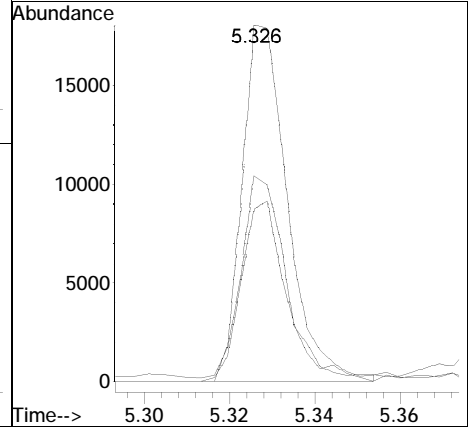
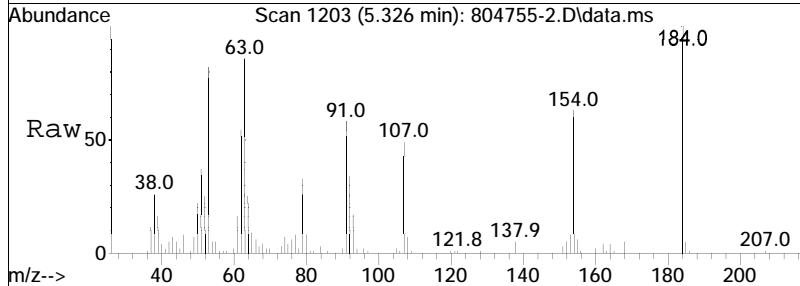
Tgt Ion	Resp	Lower	Upper
154	177421		
153	121.8	91.3	136.9
152	55.8	41.0	61.4

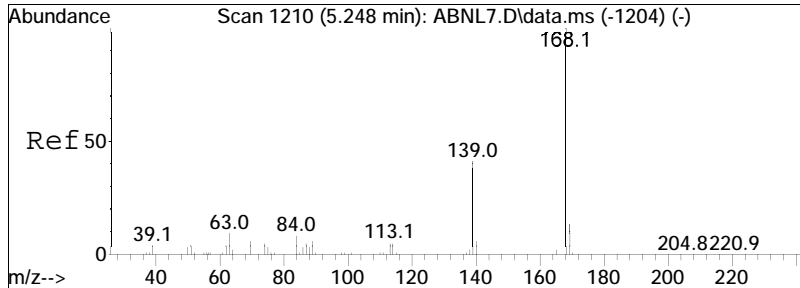




#66
 2,4-Dinitrophenol
 Concen: 13.88 ug/ml
 RT: 5.326 min Scan# 1203
 Delta R.T. -0.000 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

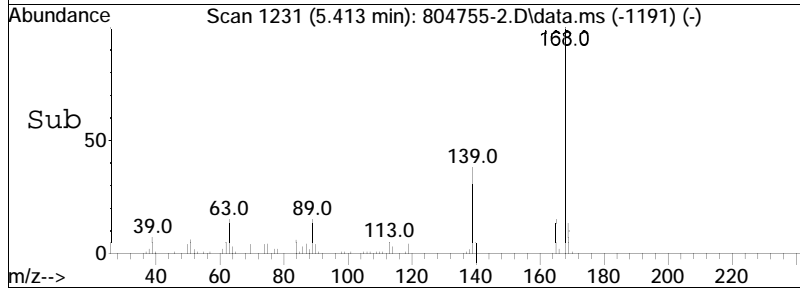
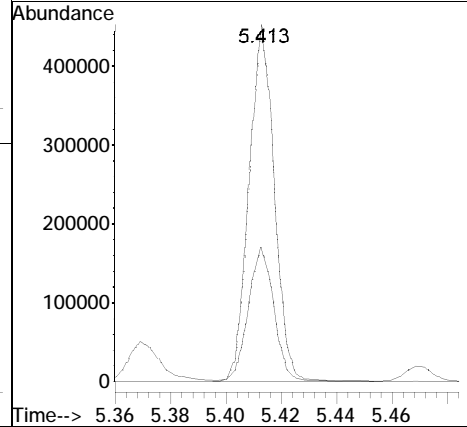
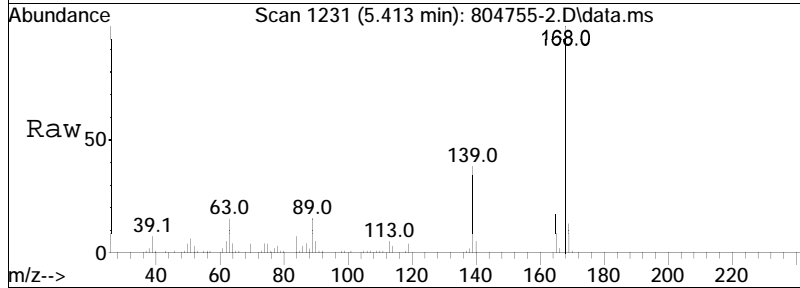
Tgt Ion	Ratio	Lower	Upper
184	100		
107	50.8	41.8	62.6
91	55.4	46.1	69.1

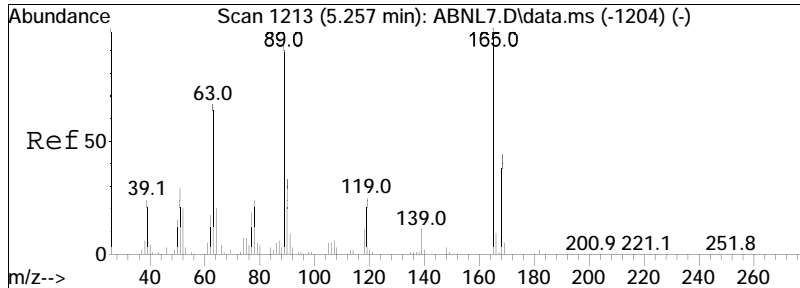




#67
 Dibenzofuran
 Concen: 27.97 ug/ml
 RT: 5.413 min Scan# 1231
 Delta R.T. -0.000 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

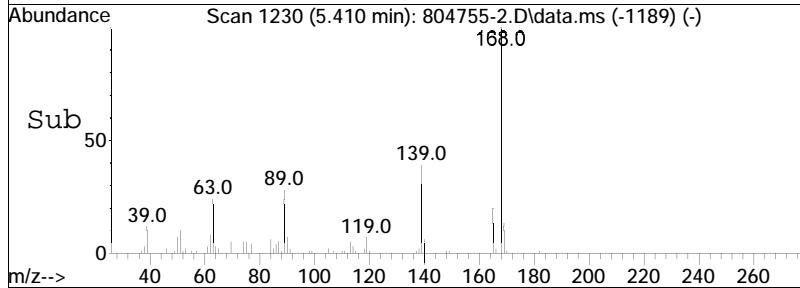
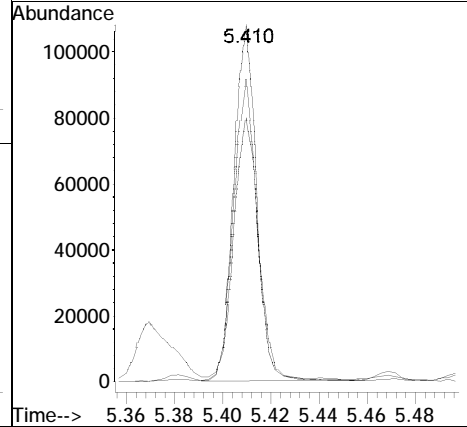
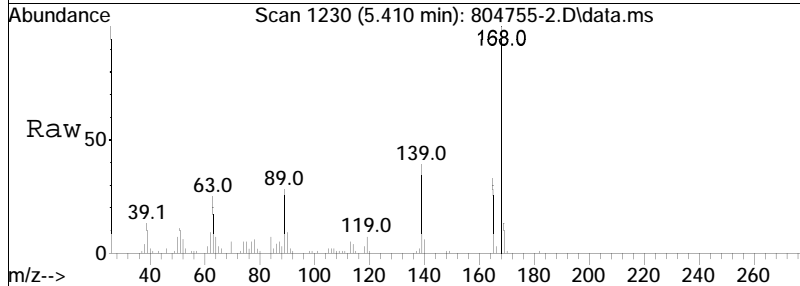
Tgt Ion	Resp	Lower	Upper
168	100		
139	38.0	33.2	49.8

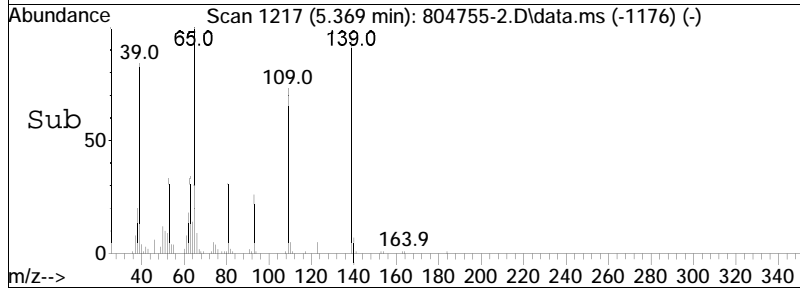
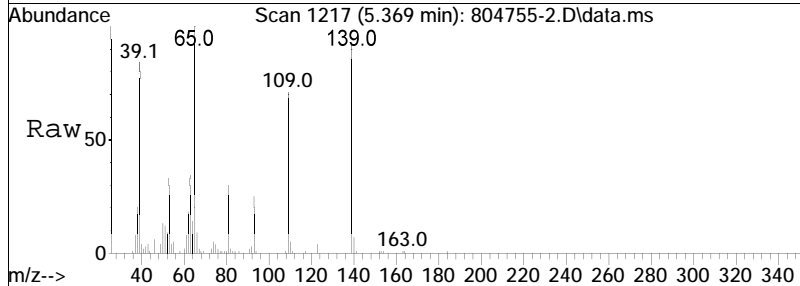
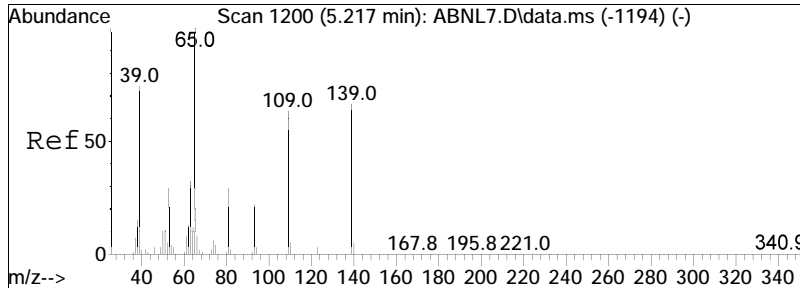




#68
 2,4-Dinitrotoluene
 Concen: 31.32 ug/ml
 RT: 5.410 min Scan# 1230
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

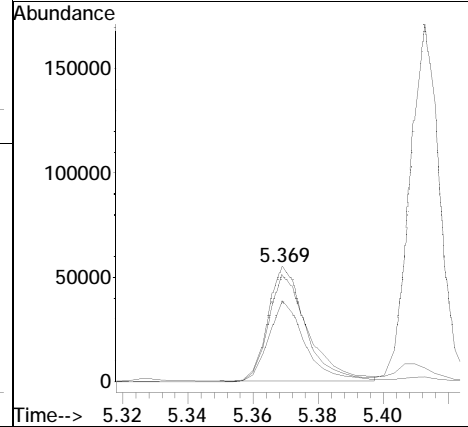
Tgt Ion	Resp	Lower	Upper
165	100		
89	87.9	75.7	113.5
63	78.9	62.6	94.0

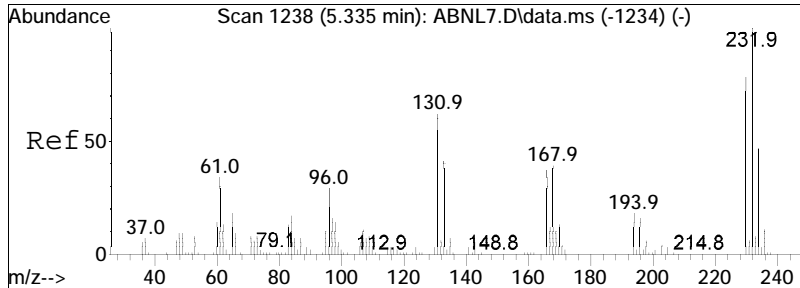




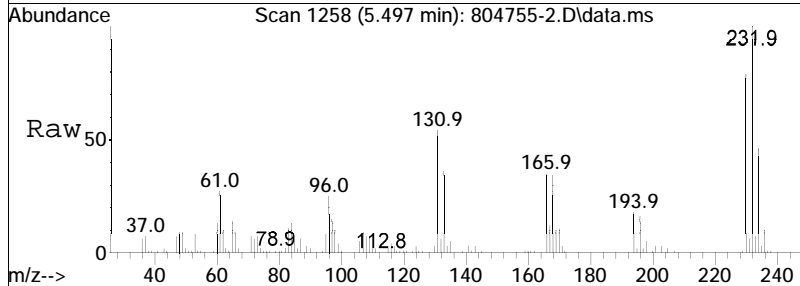
#69
 4-Nitrophenol
 Concen: 31.16 ug/ml
 RT: 5.369 min Scan# 1217
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
65	100		
109	67.0	55.4	83.2
139	91.0	72.9	109.3

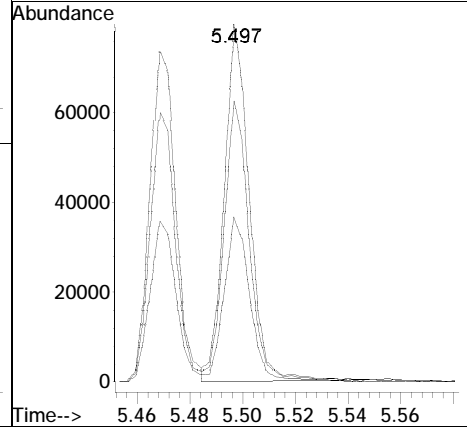
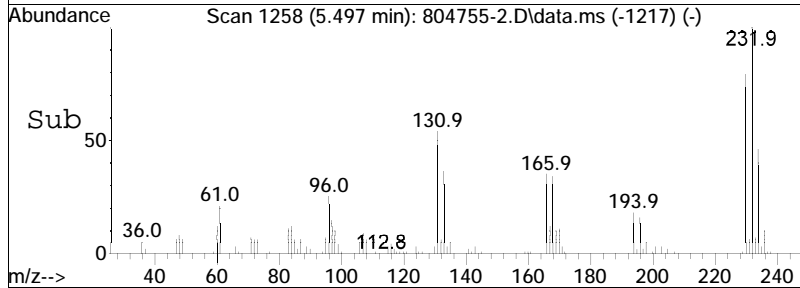


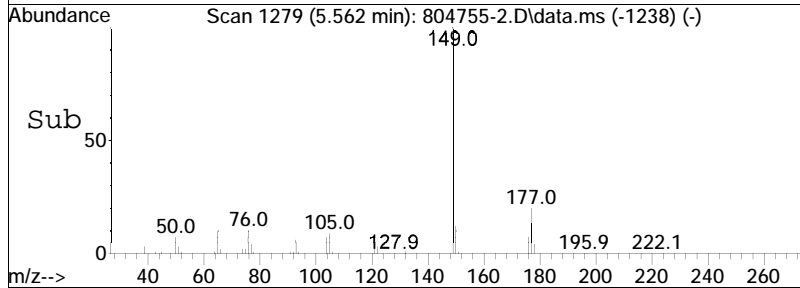
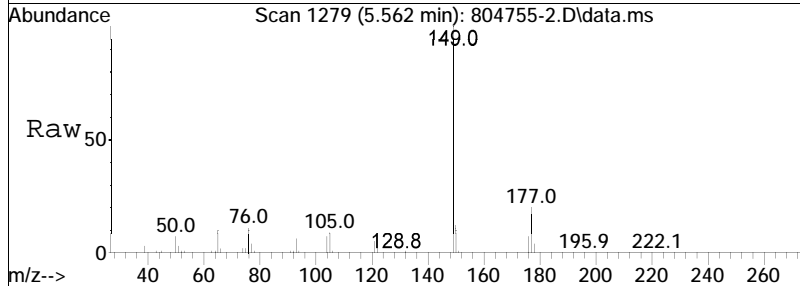
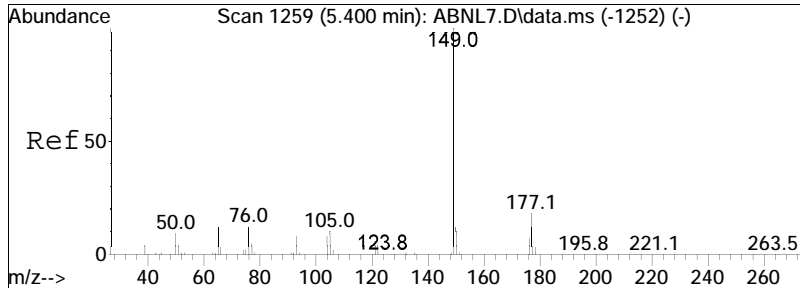


#71
 2,3,4,6-Tetrachlorophenol
 Concen: 25.24 ug/ml
 RT: 5.497 min Scan# 1258
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am



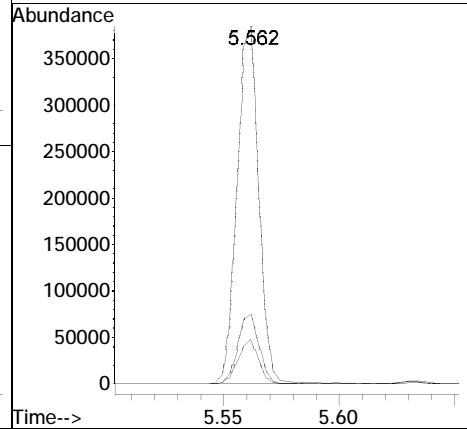
Tgt Ion	Resp	Lower	Upper
232	100		
230	77.8	63.7	95.5
234	48.4	38.4	57.6

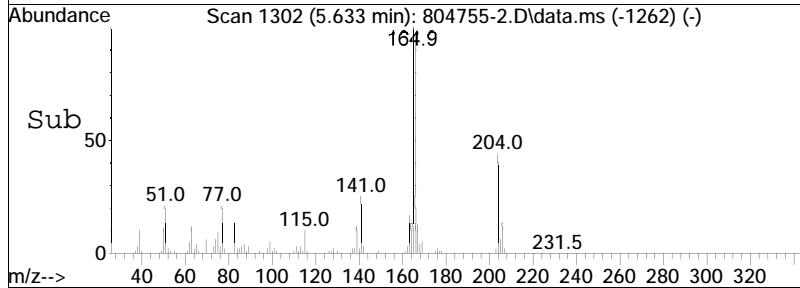
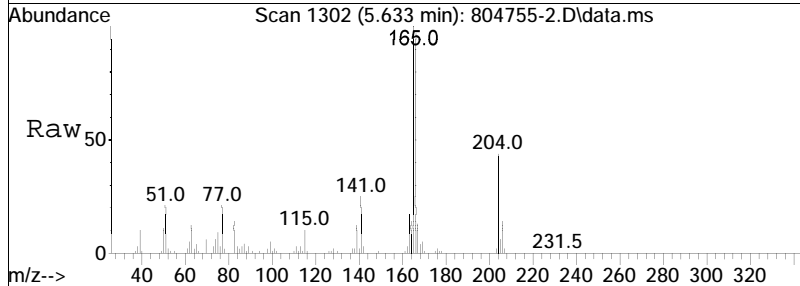
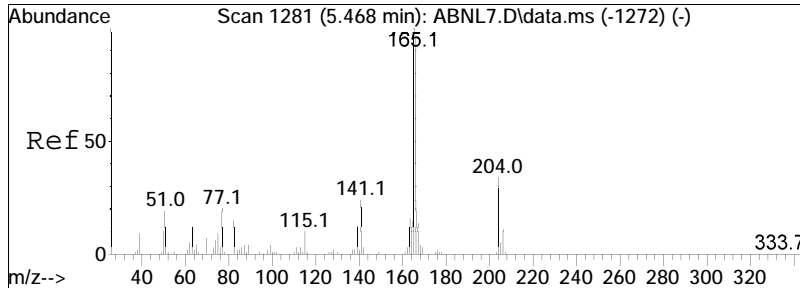




#72
 Diethyl phthalate
 Concen: 30.23 ug/ml
 RT: 5.562 min Scan# 1279
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

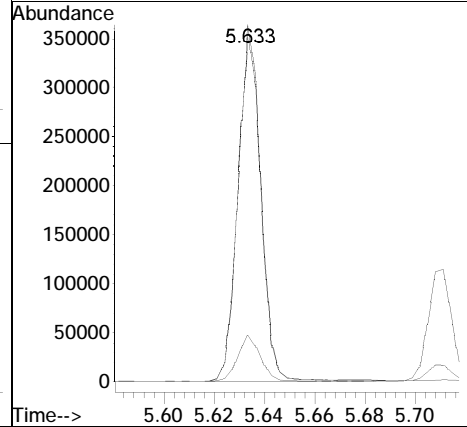
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.2	15.5	23.3
150	11.8	9.5	14.3

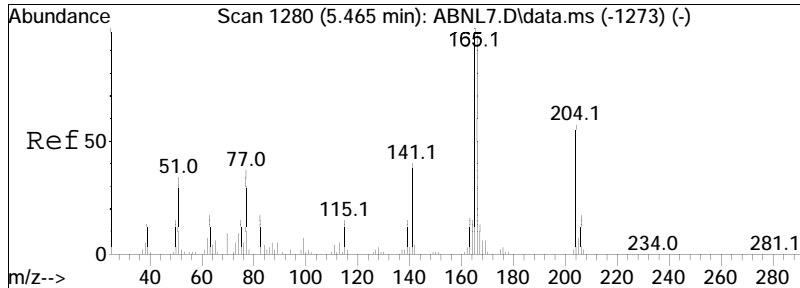




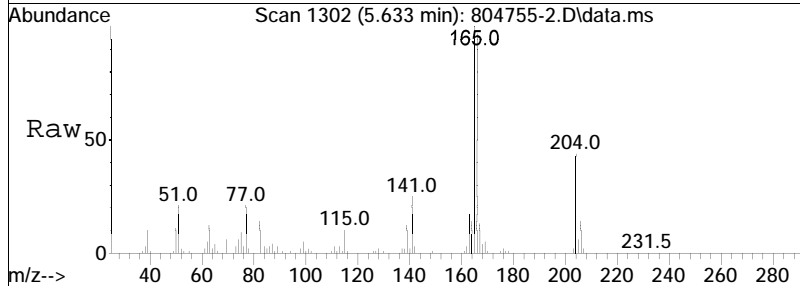
#73
 Fluorene
 Concen: 26.66 ug/ml
 RT: 5.633 min Scan# 1302
 Delta R.T. -0.000 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

Tgt Ion	Resp	Lower	Upper
166	224504		
166	100		
165	102.3	79.3	118.9
167	13.2	10.6	16.0

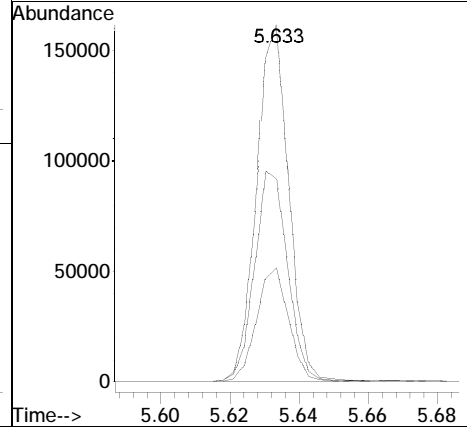
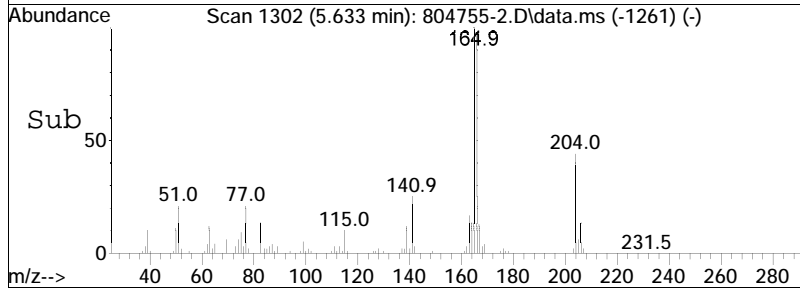


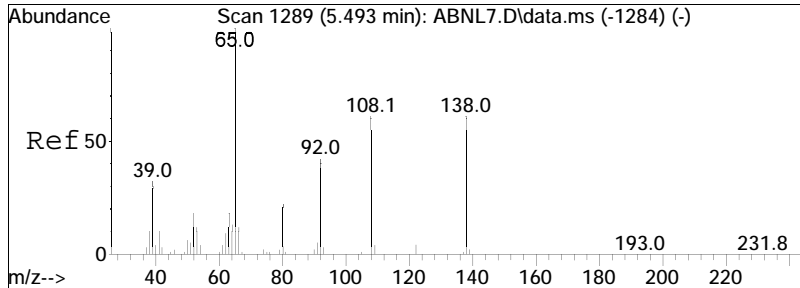


#74
 4-Chlorophenyl phenyl ether
 Concen: 25.61 ug/ml
 RT: 5.633 min Scan# 1302
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am



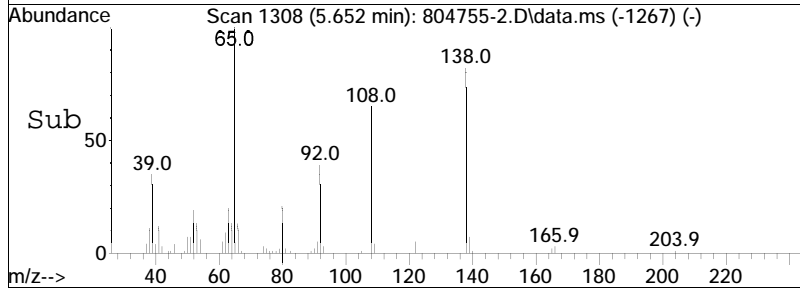
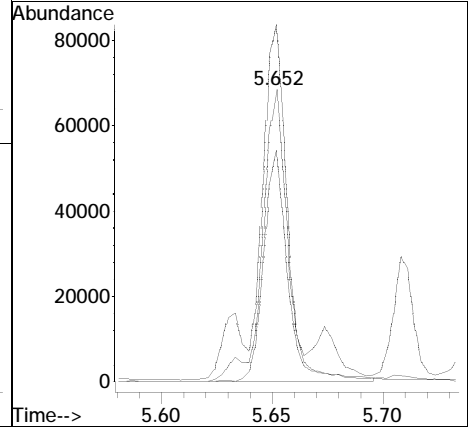
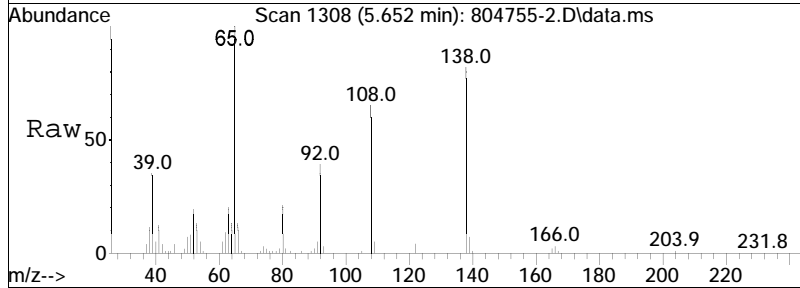
Tgt Ion	Ratio	Lower	Upper
204	100		
206	31.8	26.2	39.4
141	61.0	57.2	85.8

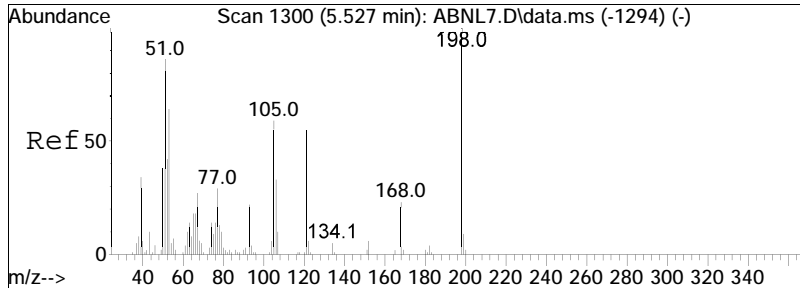




#75
 4-Nitroaniline
 Concen: 28.58 ug/ml
 RT: 5.652 min Scan# 1308
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

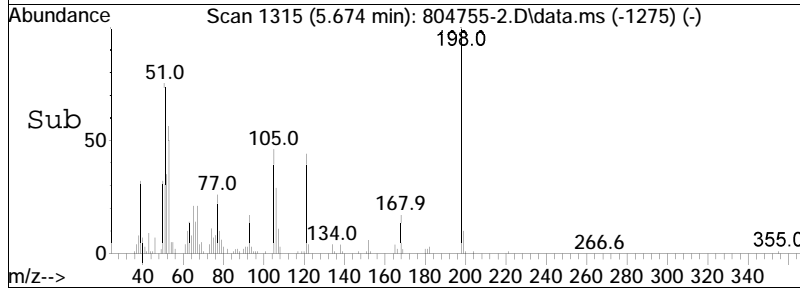
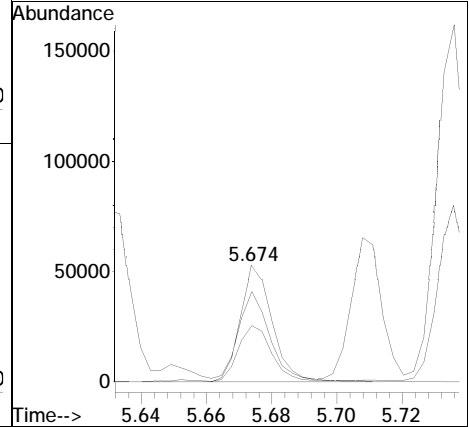
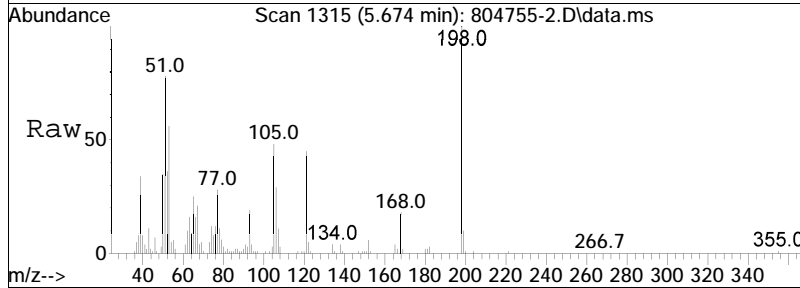
Tgt Ion	Resp	Lower	Upper
138	100		
108	74.2	62.7	94.1
65	109.2	107.8	161.6

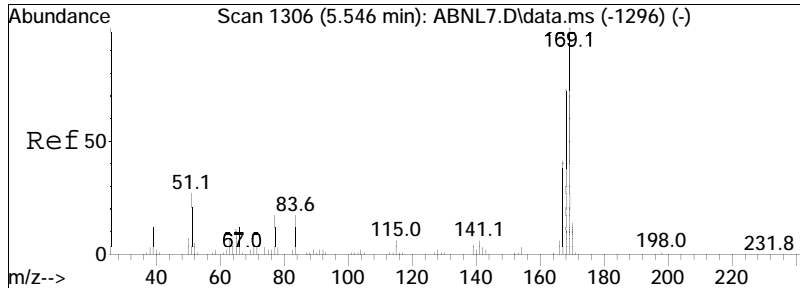




#76
 4,6-Dinitro-o-cresol
 Concen: 28.06 ug/ml
 RT: 5.674 min Scan# 1315
 Delta R.T. -0.000 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

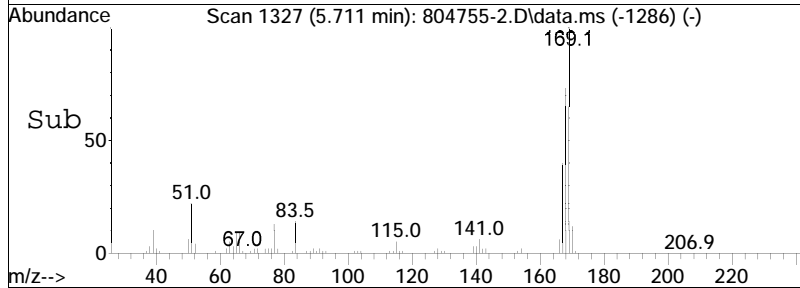
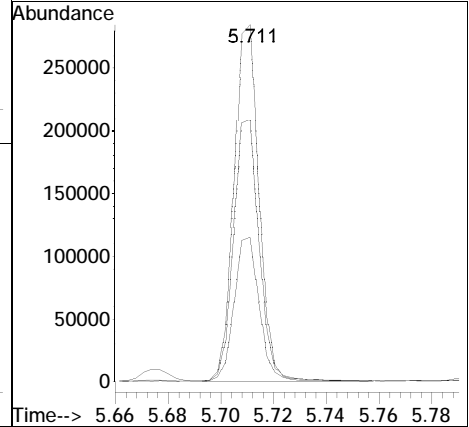
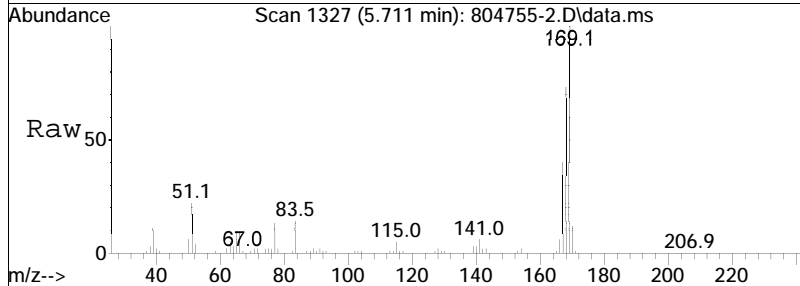
Tgt Ion	Resp	Lower	Upper
198	100		
51	73.4	59.0	88.4
105	50.5	45.0	67.6

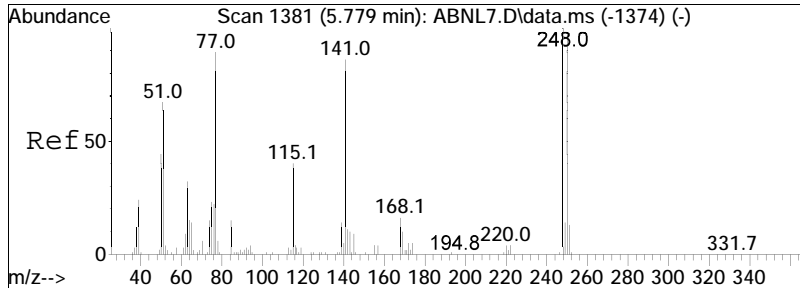




#77
 NDPA/DPA
 Concen: 28.31 ug/ml
 RT: 5.711 min Scan# 1327
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

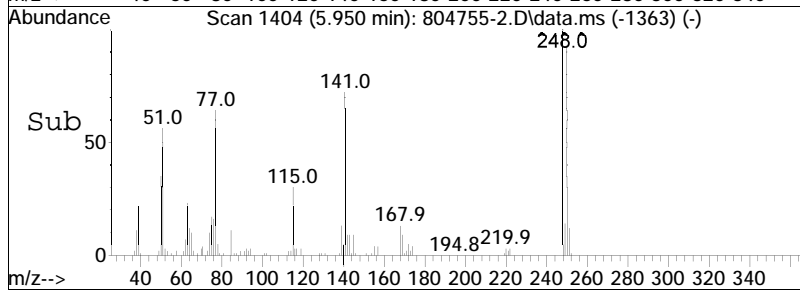
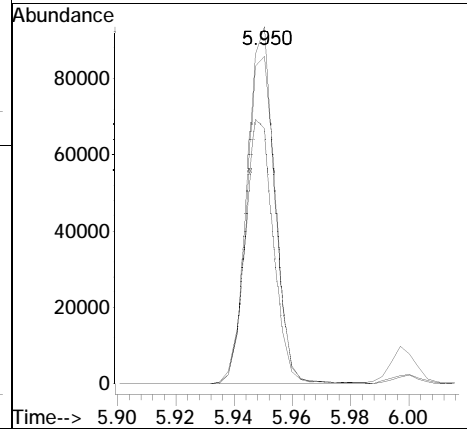
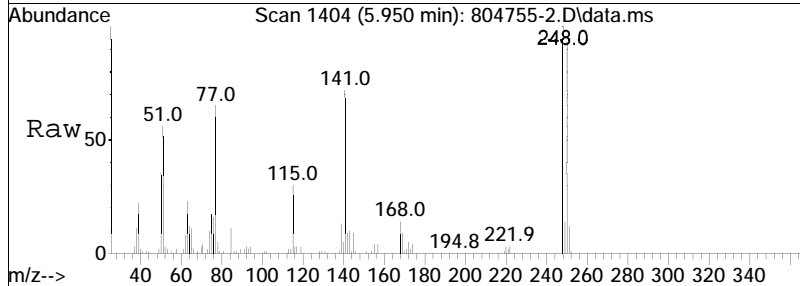
Tgt Ion	Resp	Lower	Upper
169	100		
168	74.7	55.4	83.0
167	40.9	30.3	45.5

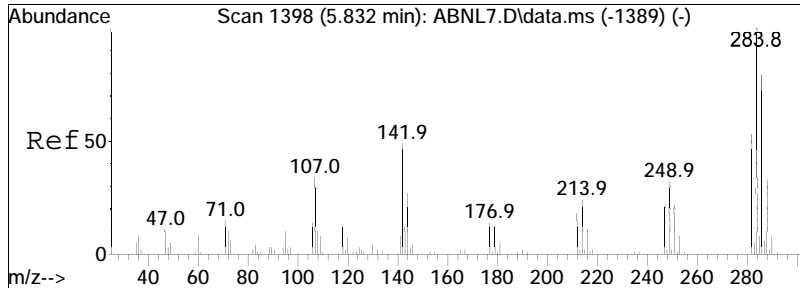




#80
 4-Bromophenyl phenyl ether
 Concen: 25.27 ug/ml
 RT: 5.950 min Scan# 1404
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

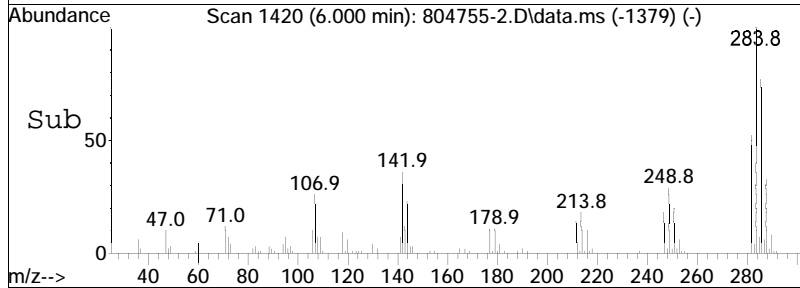
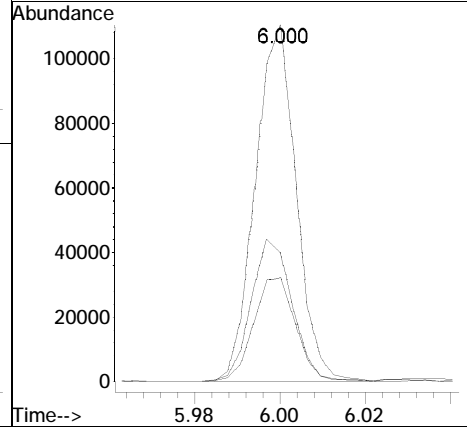
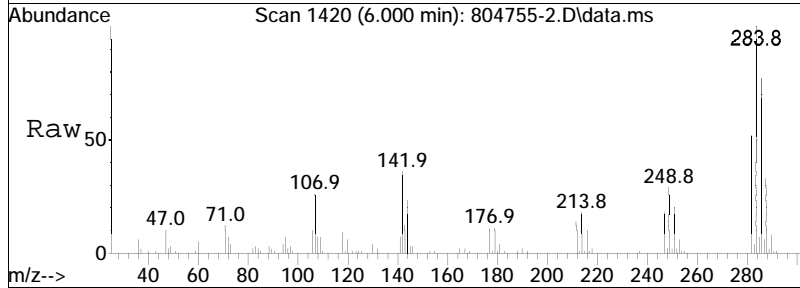
Tgt Ion	Ratio	Lower	Upper
248	100		
141	76.4	76.8	115.2#
250	95.7	79.7	119.5

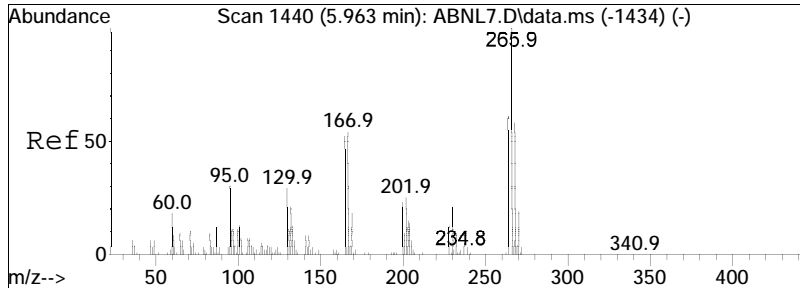




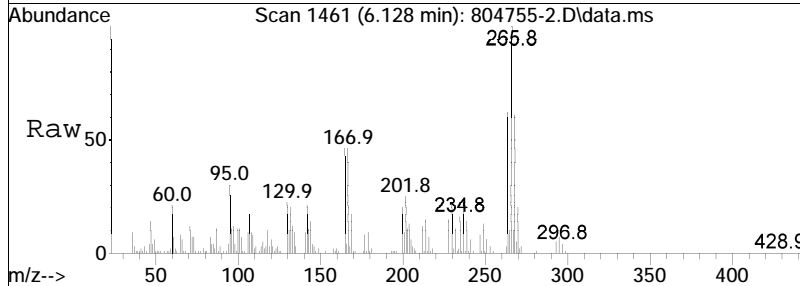
#81
 Hexachlorobenzene
 Concen: 24.69 ug/ml
 RT: 6.000 min Scan# 1420
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

Tgt Ion	Resp	Lower	Upper
284	100		
142	40.4	35.8	53.6
249	30.3	24.7	37.1

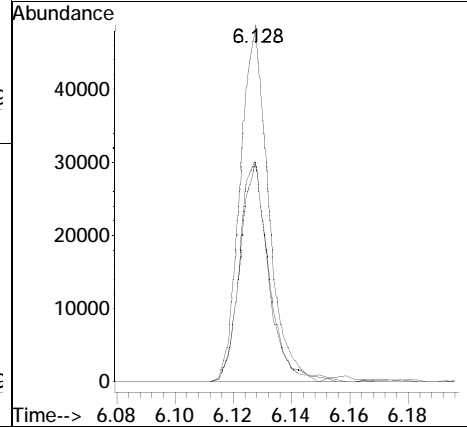
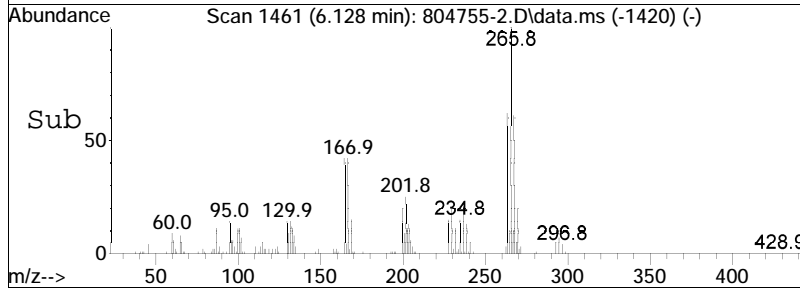


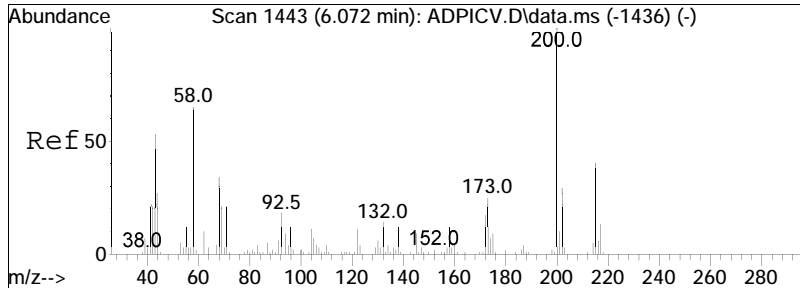


#82
 Pentachlorophenol
 Concen: 19.46 ug/ml
 RT: 6.128 min Scan# 1461
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am



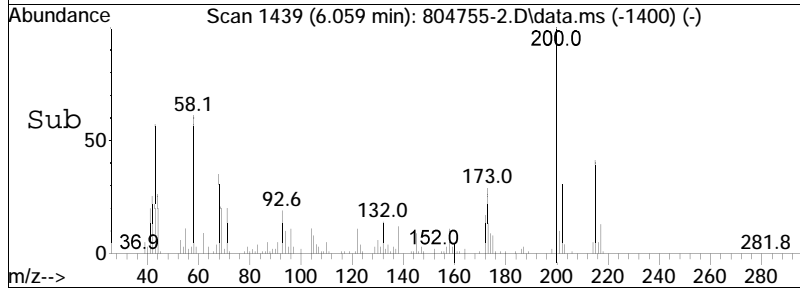
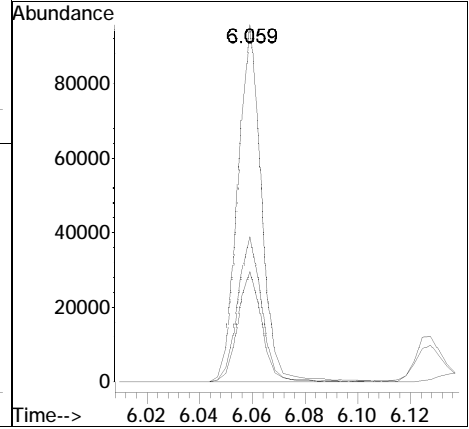
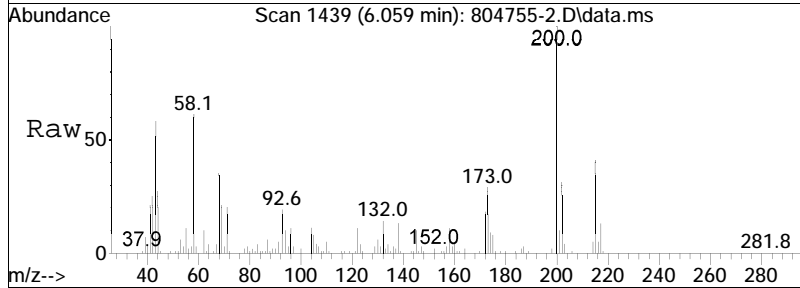
Tgt Ion	Resp	Lower	Upper
266	100		
264	61.9	51.8	77.6
268	60.8	49.8	74.8

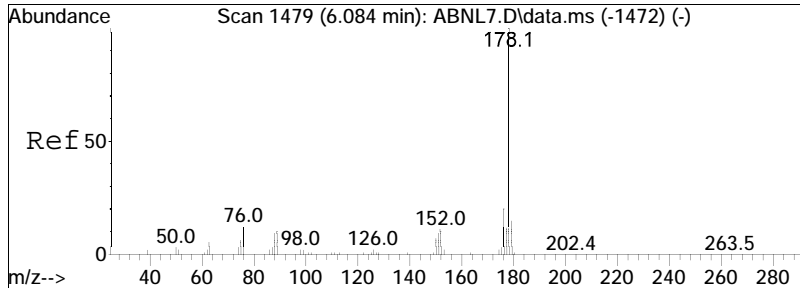




#87
 Atrazine
 Concen: 28.00 ug/ml
 RT: 6.059 min Scan# 1439
 Delta R.T. -0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

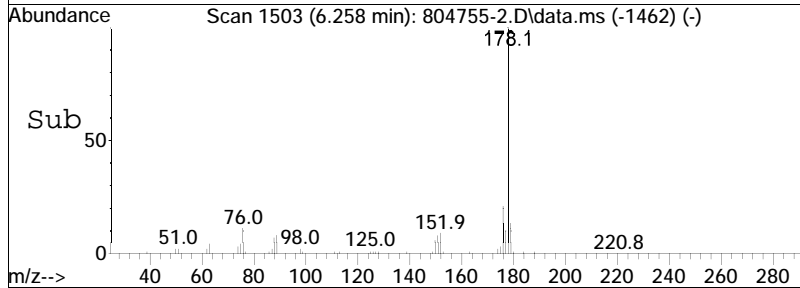
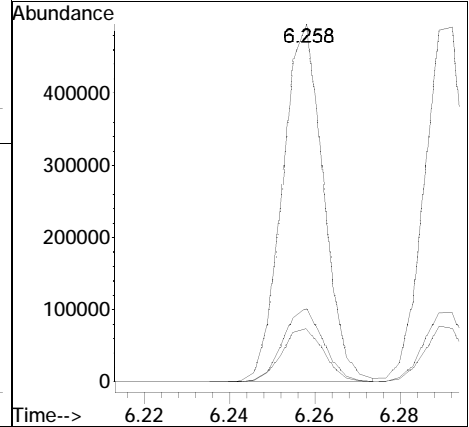
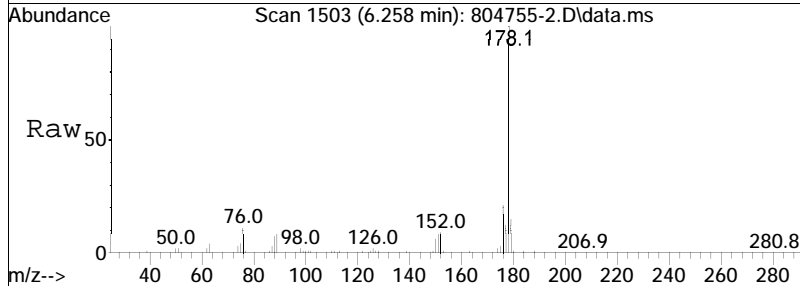
Tgt Ion	Ratio	Lower	Upper
200	100		
202	31.1	24.9	37.3
215	41.2	34.0	51.0

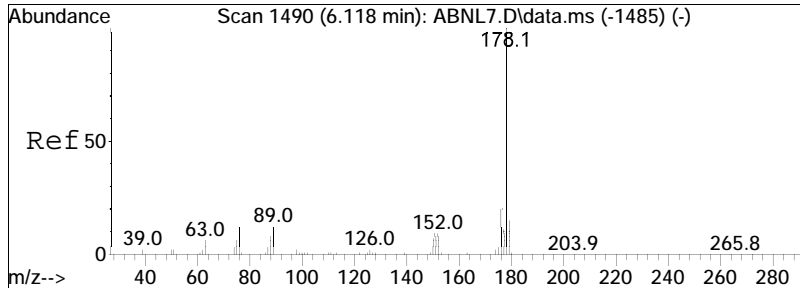




#89
 Phenanthrene
 Concen: 28.80 ug/ml
 RT: 6.258 min Scan# 1503
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

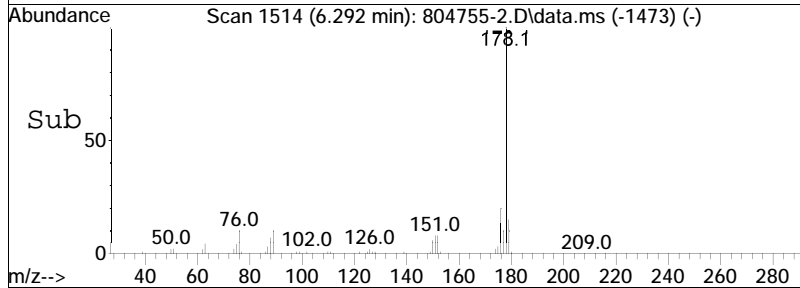
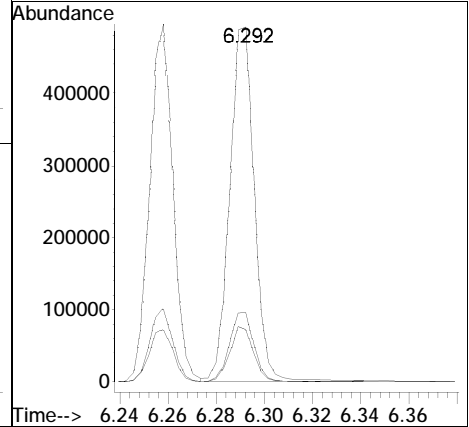
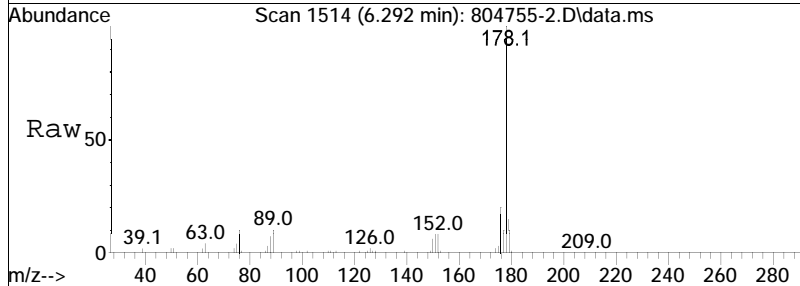
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2
176	20.3	15.4	23.2

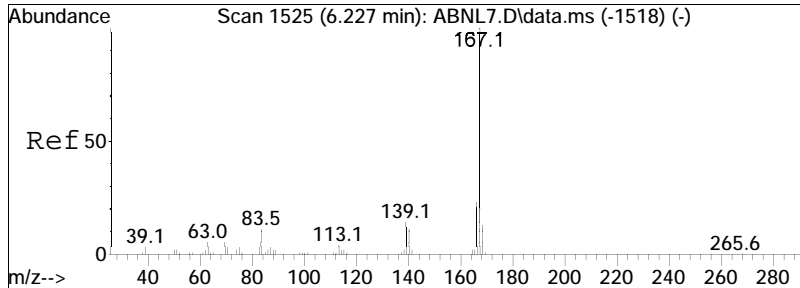




#90
 Anthracene
 Concen: 29.95 ug/ml
 RT: 6.292 min Scan# 1514
 Delta R.T. 0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

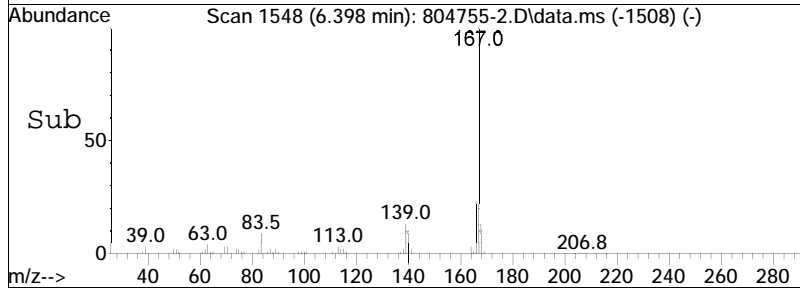
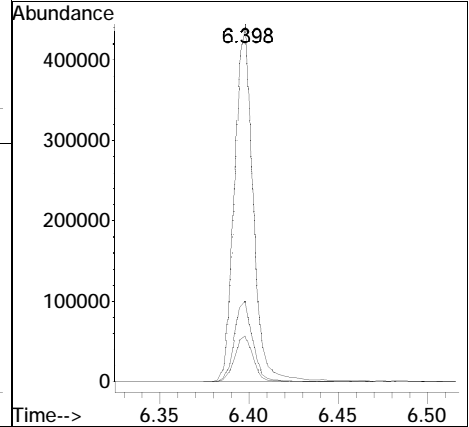
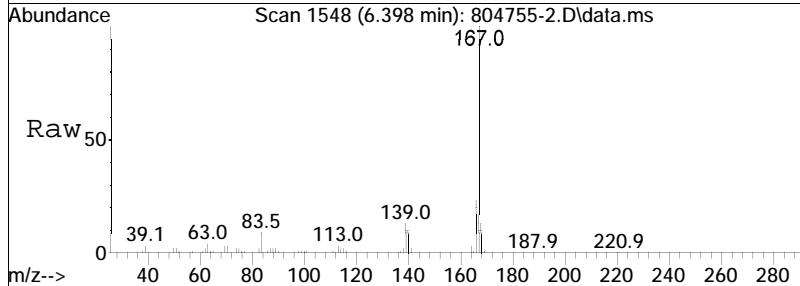
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.1	18.1
176	19.5	14.8	22.2

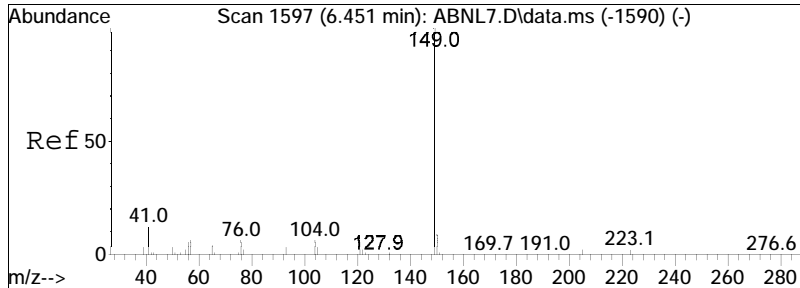




#91
 Carbazole
 Concen: 31.40 ug/ml
 RT: 6.398 min Scan# 1548
 Delta R.T. -0.000 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

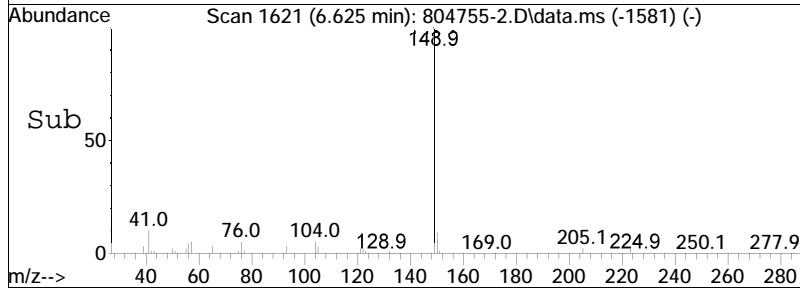
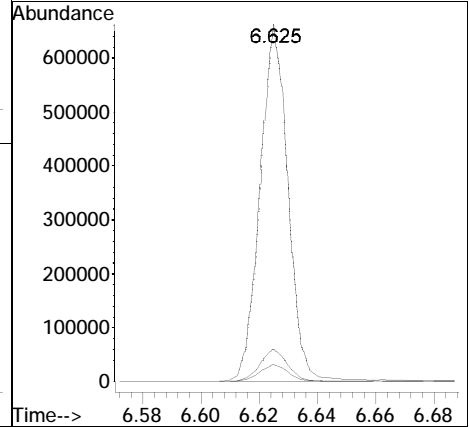
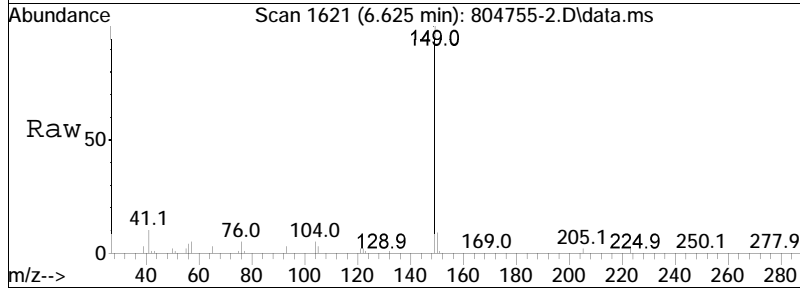
Tgt Ion	Resp	Lower	Upper
167	319241		
168	13.2	10.6	15.8
166	22.6	17.7	26.5

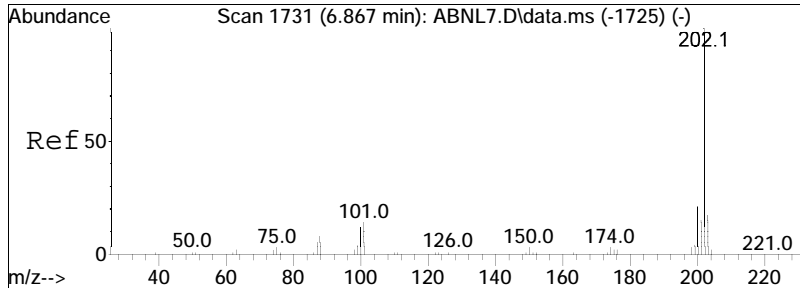




#92
 Di-n-butylphthalate
 Concen: 34.10 ug/ml
 RT: 6.625 min Scan# 1621
 Delta R.T. -0.000 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

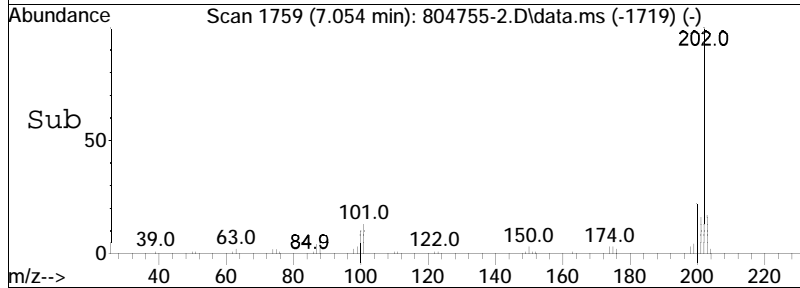
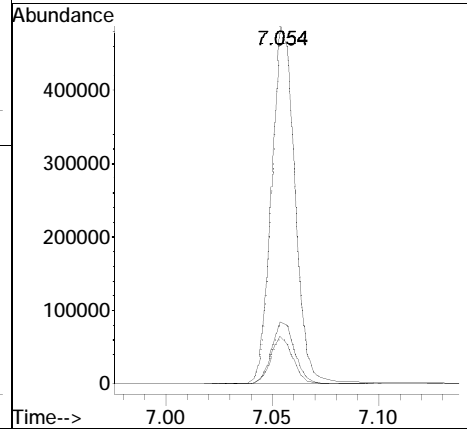
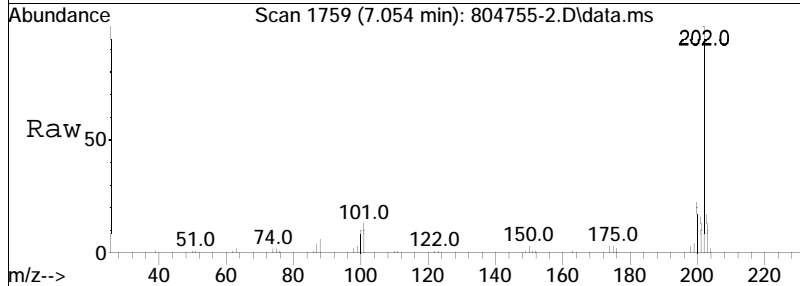
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.4	11.0
104	4.8	4.2	6.2

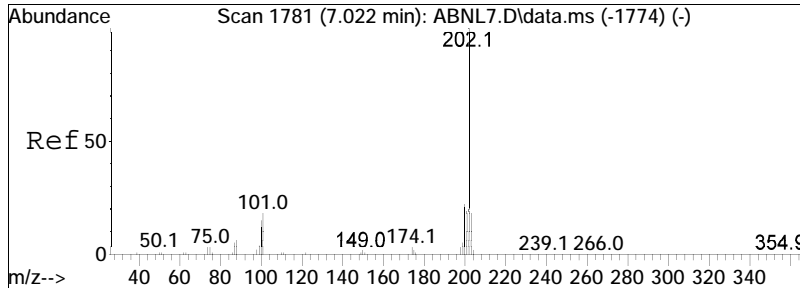




#93
 Fluoranthene
 Concen: 27.78 ug/ml
 RT: 7.054 min Scan# 1759
 Delta R.T. -0.000 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

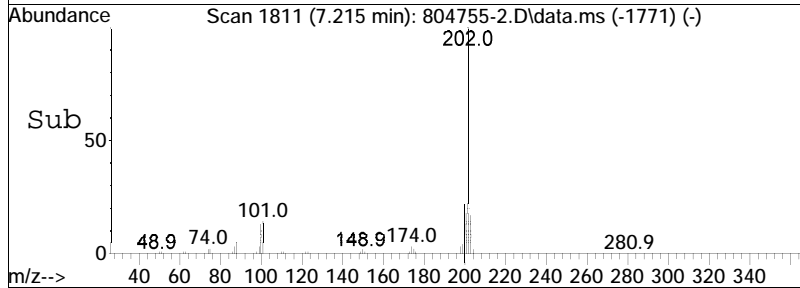
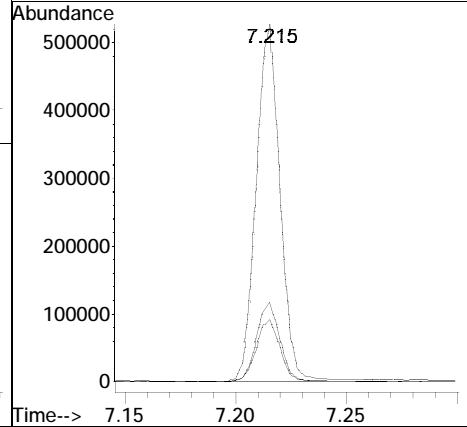
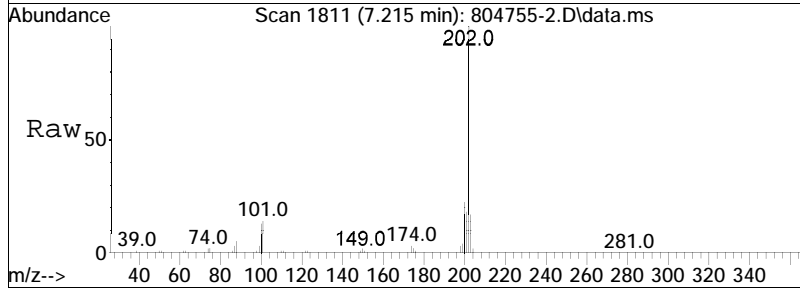
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.6	11.4	17.0
203	17.3	13.9	20.9

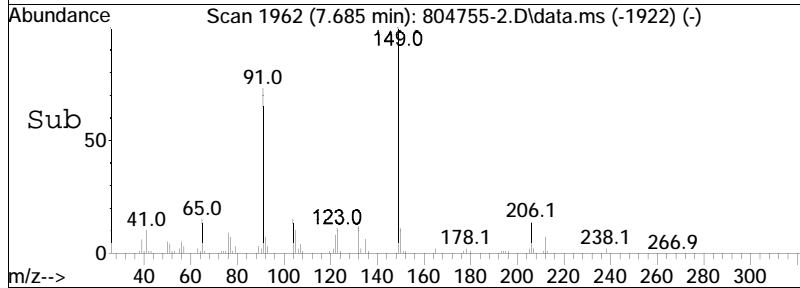
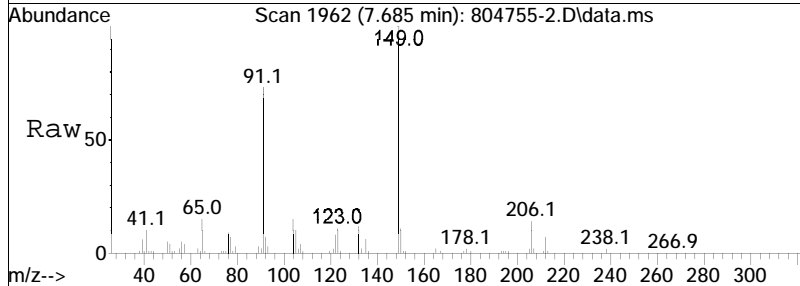
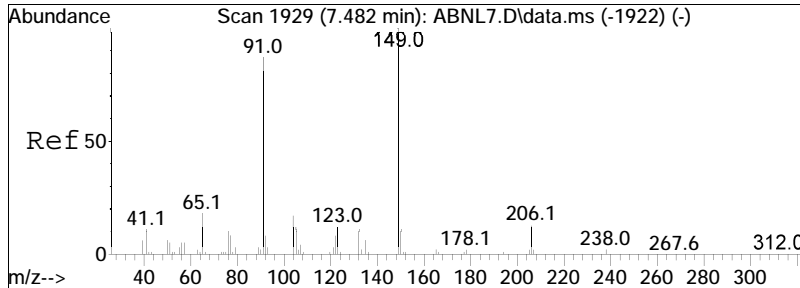




#95
 Pyrene
 Concen: 28.10 ug/ml
 RT: 7.215 min Scan# 1811
 Delta R.T. -0.000 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

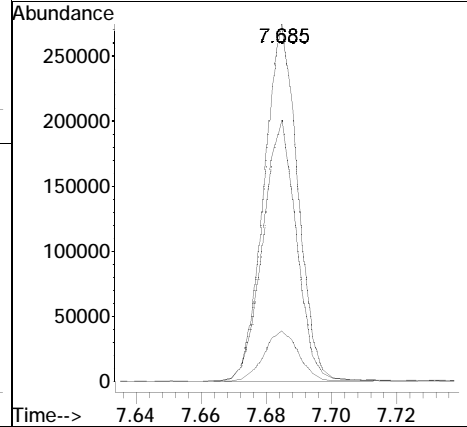
Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.1	17.0	25.4
203	17.8	14.2	21.2

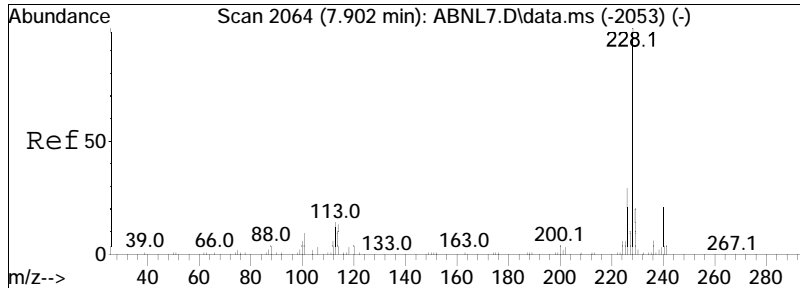




#97
 Butyl benzyl phthalate
 Concen: 35.56 ug/ml
 RT: 7.685 min Scan# 1962
 Delta R.T. -0.000 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

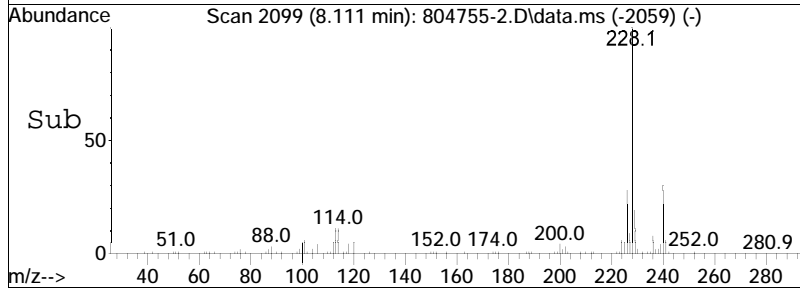
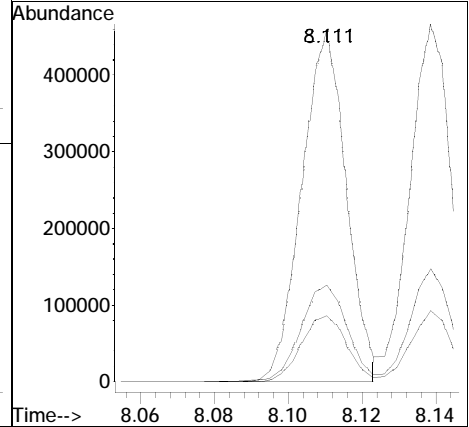
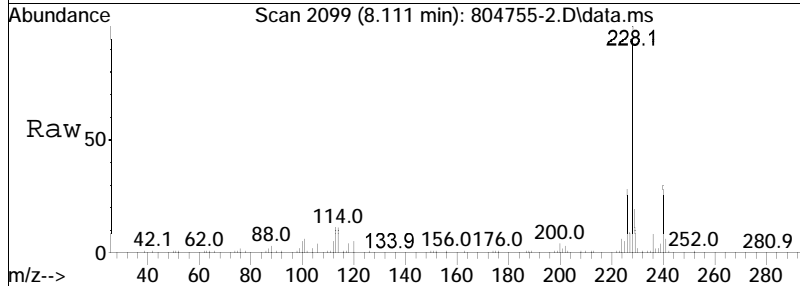
Tgt Ion	Ratio	Lower	Upper
149	100		
91	73.7	61.2	91.8
206	14.8	12.5	18.7

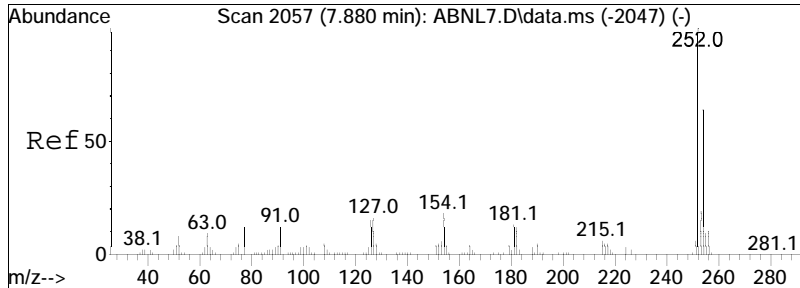




#105
 Benzo(a)anthracene
 Concen: 29.86 ug/ml
 RT: 8.111 min Scan# 2099
 Delta R.T. -0.000 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

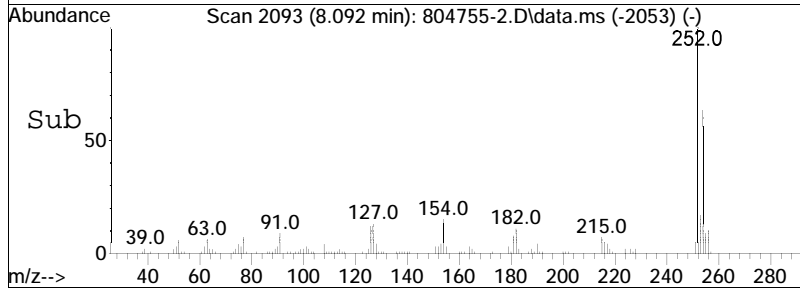
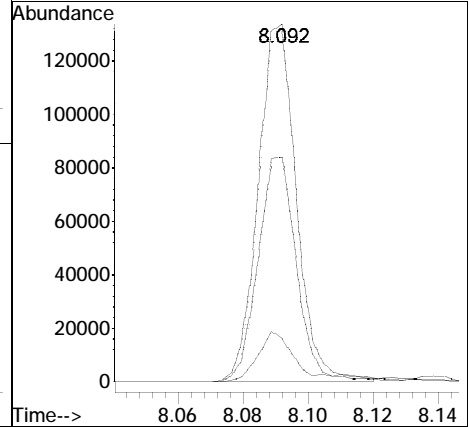
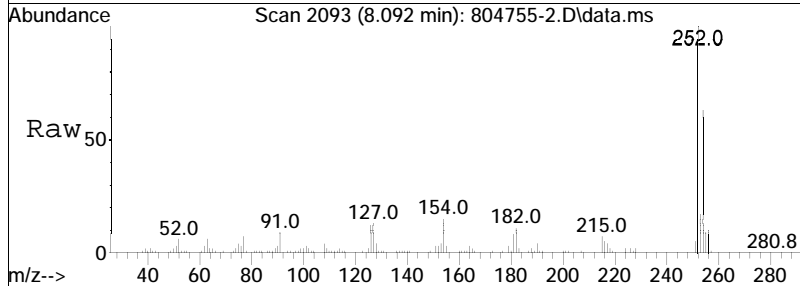
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.2	33.2
229	19.4	15.6	23.4

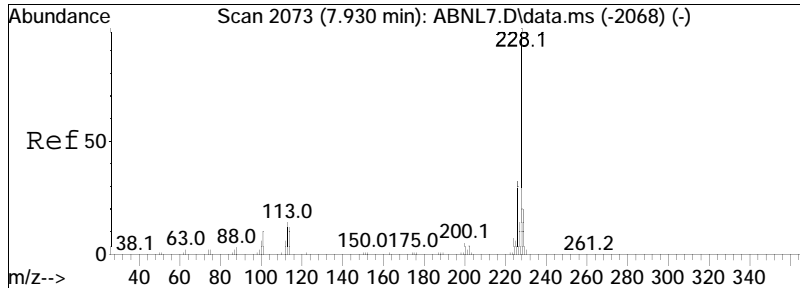




#106
 3,3'-Dichlorobenzidine
 Concen: 23.82 ug/ml
 RT: 8.092 min Scan# 2093
 Delta R.T. -0.000 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

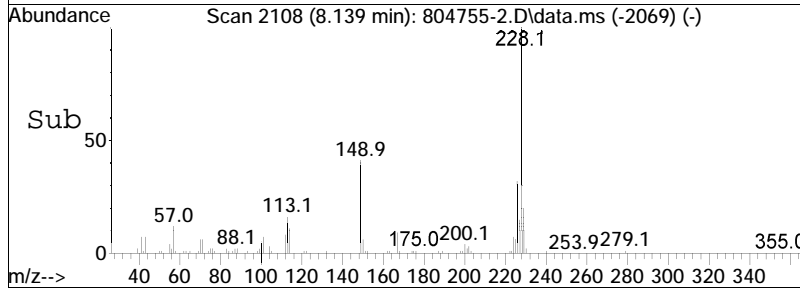
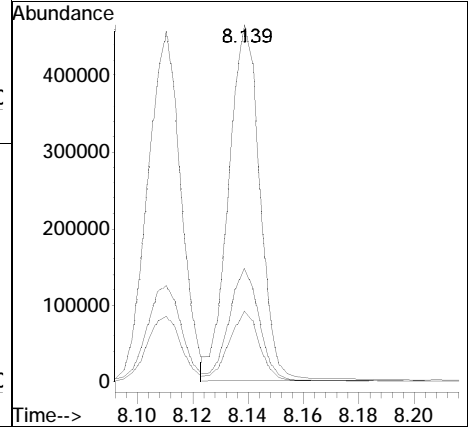
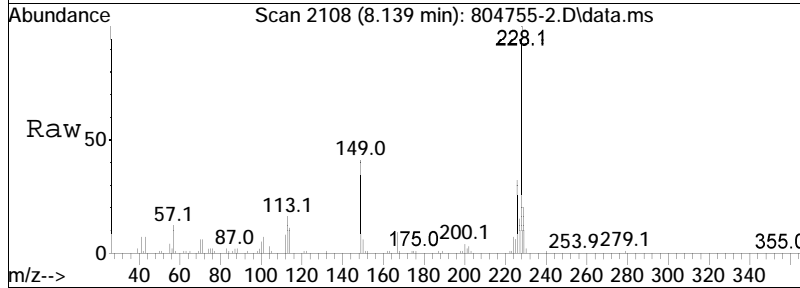
Tgt Ion	Ratio	Lower	Upper
252	100		
126	13.6	13.8	20.6#
254	63.5	53.0	79.6

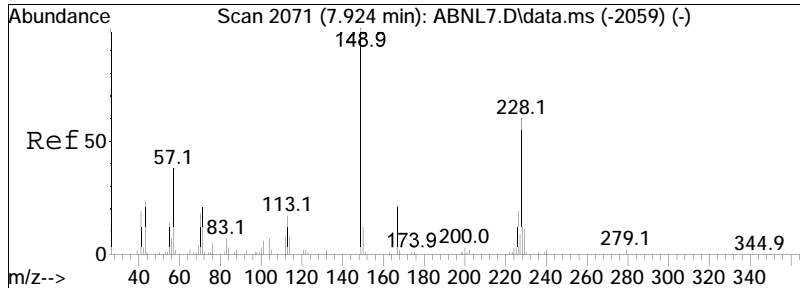




#107
 Chrysene
 Concen: 29.17 ug/ml
 RT: 8.139 min Scan# 2108
 Delta R.T. -0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

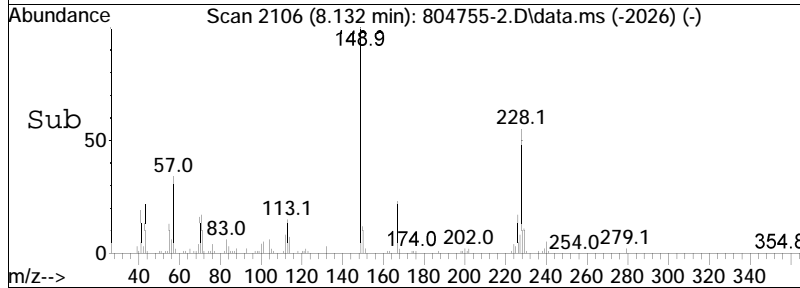
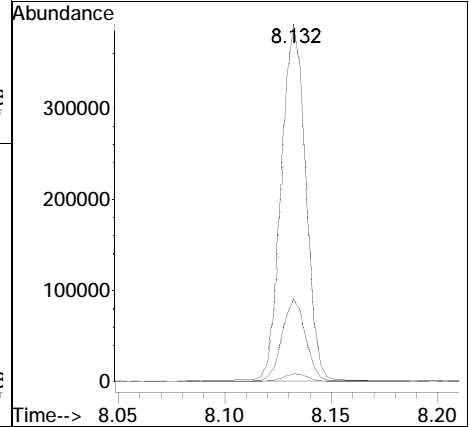
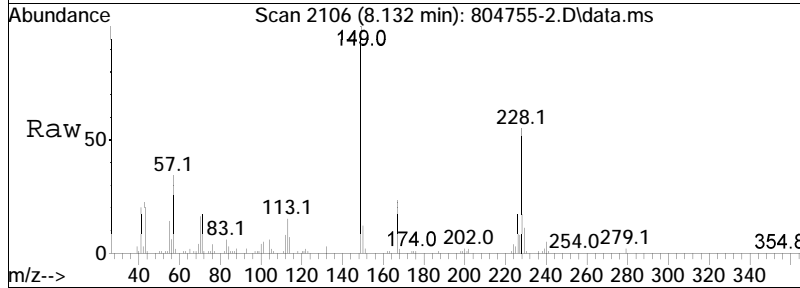
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	19.4	15.8	23.6

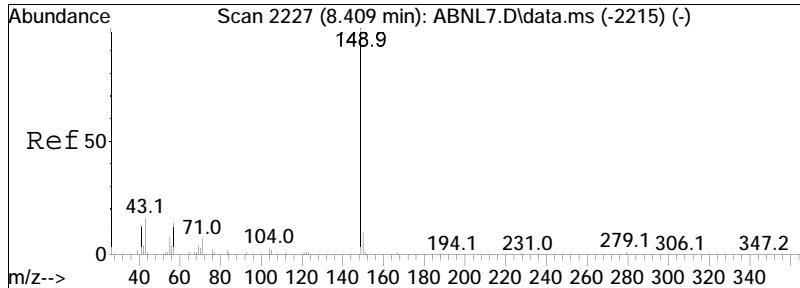




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 31.21 ug/ml
 RT: 8.132 min Scan# 2106
 Delta R.T. -0.000 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

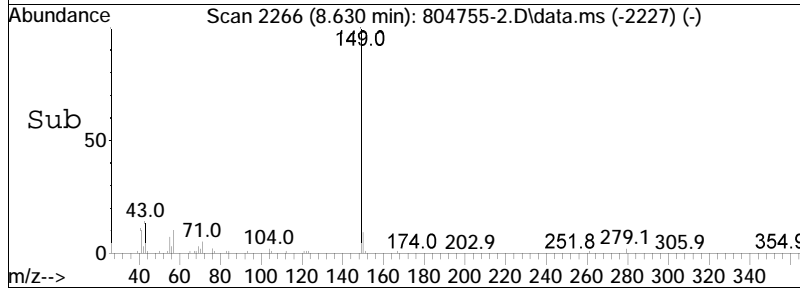
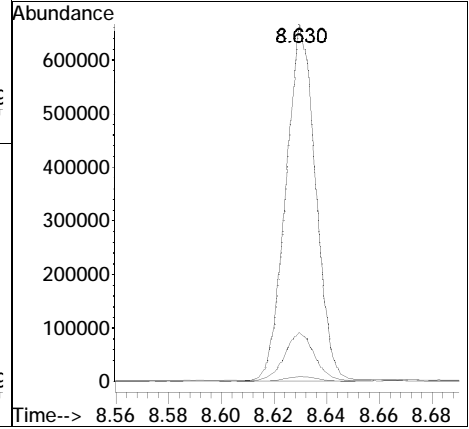
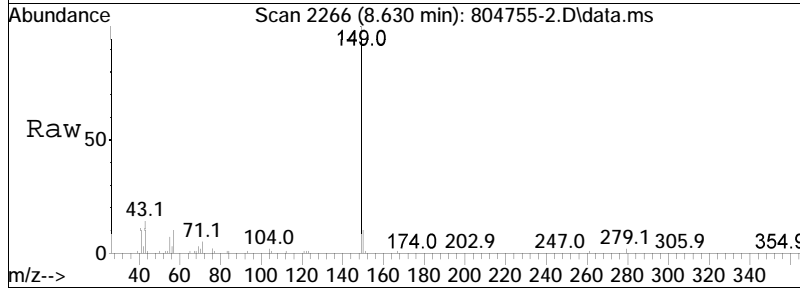
Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.6	19.4	29.0
279	2.0	2.3	3.5#

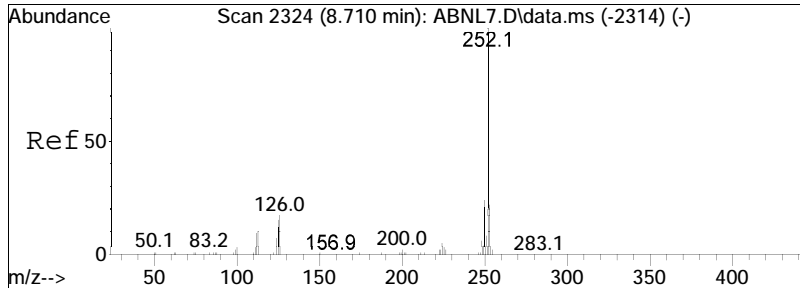




#109
 Di-n-octylphthalate
 Concen: 32.69 ug/ml
 RT: 8.630 min Scan# 2266
 Delta R.T. -0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

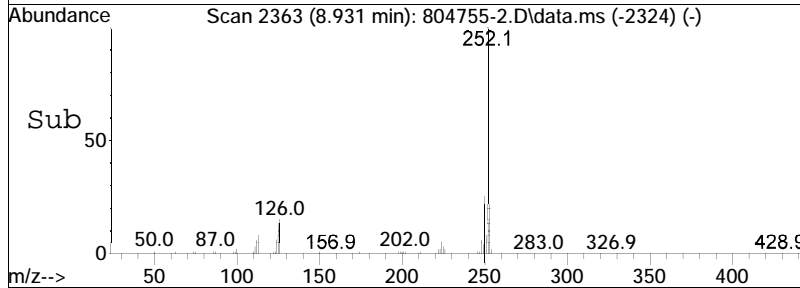
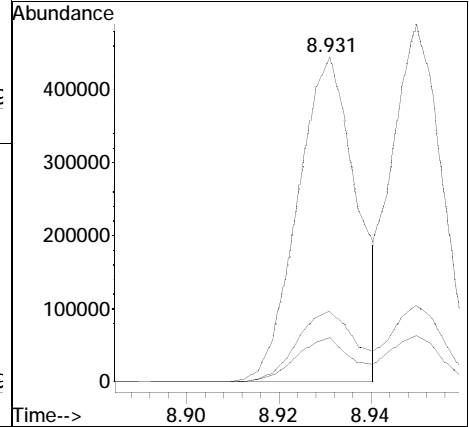
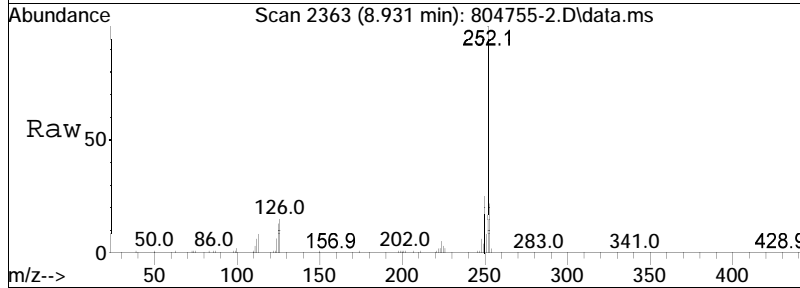
Tgt Ion	Ratio	Lower	Upper
149	100		
43	13.5	10.1	15.1
167	1.4	1.1	1.7

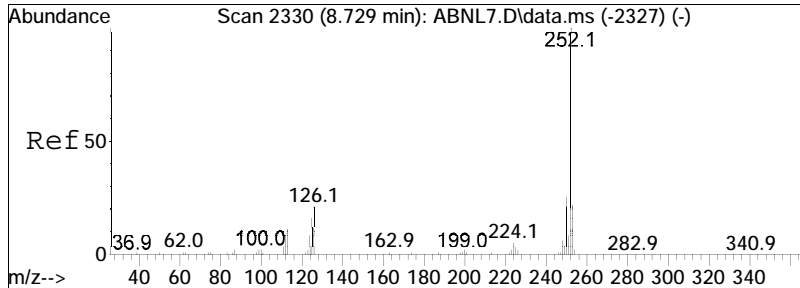




#110
 Benzo(b)fluoranthene
 Concen: 30.67 ug/ml
 RT: 8.931 min Scan# 2363
 Delta R.T. -0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

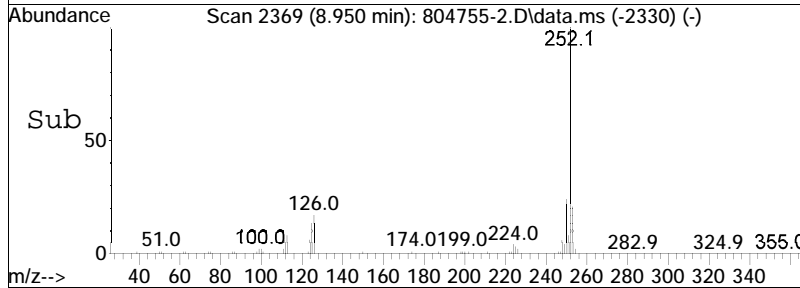
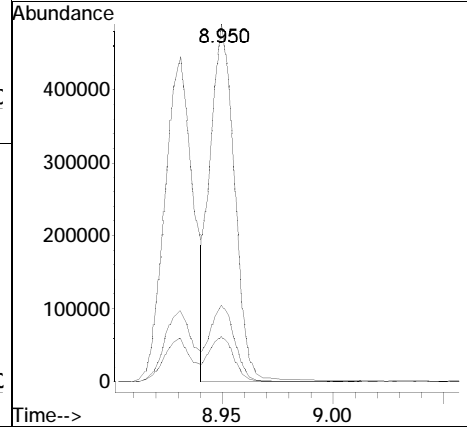
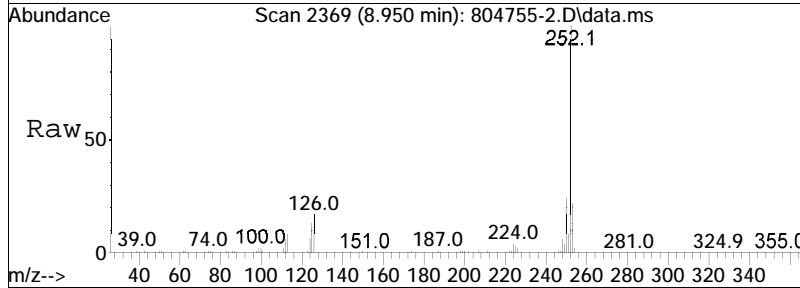
Tgt Ion	Resp	Lower	Upper
252	399083		
125	13.1	11.6	17.4
253	21.9	17.4	26.0

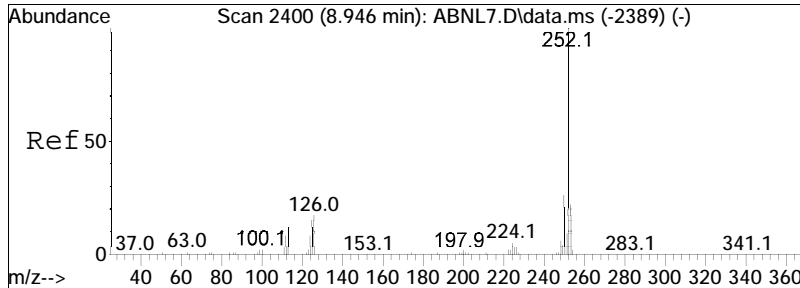




#111
 Benzo(k)fluoranthene
 Concen: 29.32 ug/ml
 RT: 8.950 min Scan# 2369
 Delta R.T. -0.003 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

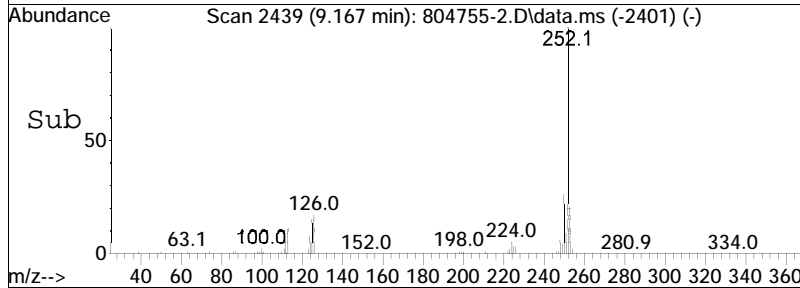
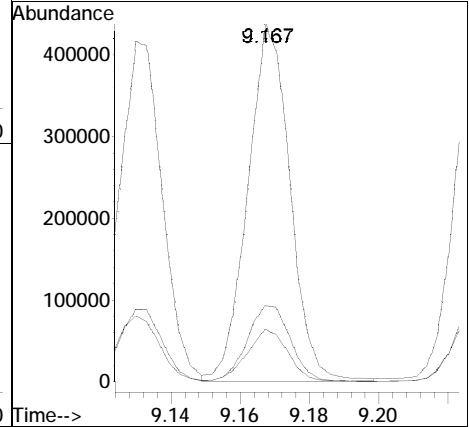
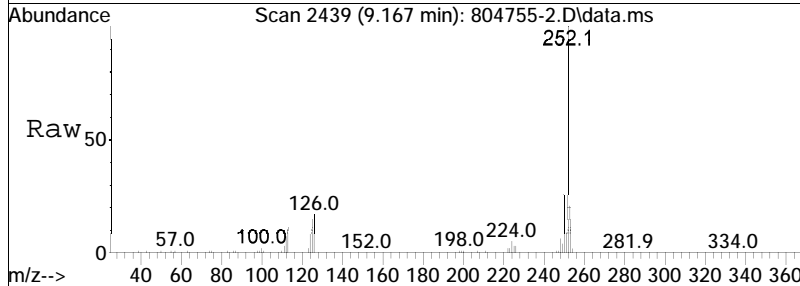
Tgt Ion	Ratio	Lower	Upper
252	100		
125	12.6	11.4	17.0
253	21.4	17.2	25.8

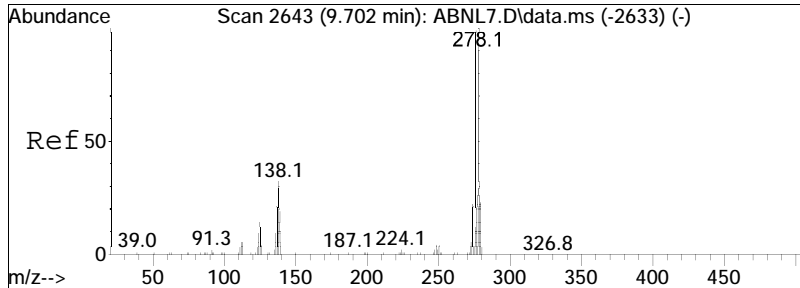




#112
 Benzo(a)pyrene
 Concen: 33.50 ug/ml
 RT: 9.167 min Scan# 2439
 Delta R.T. -0.007 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

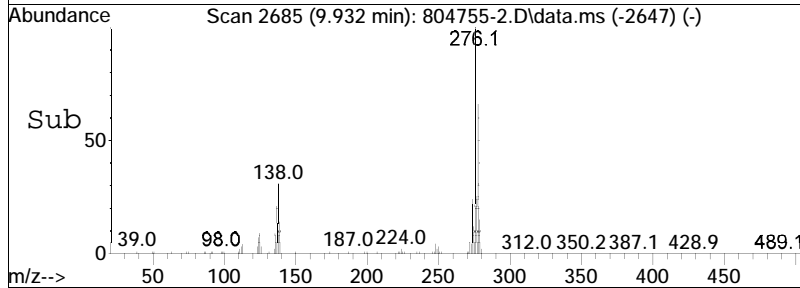
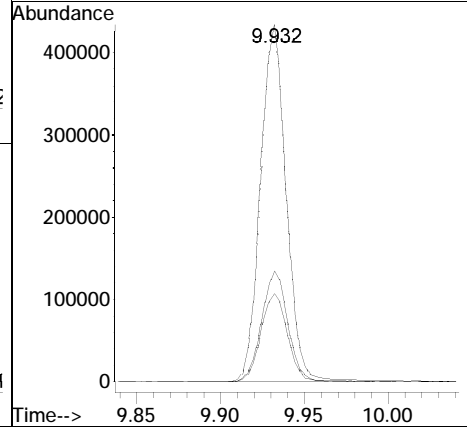
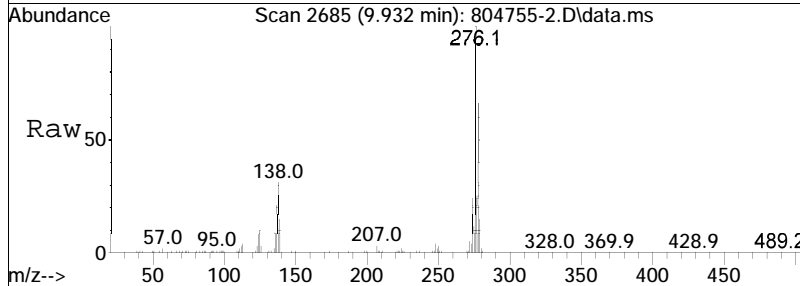
Tgt Ion	Ratio	Lower	Upper
252	100		
125	14.3	12.6	18.8
253	21.8	16.9	25.3

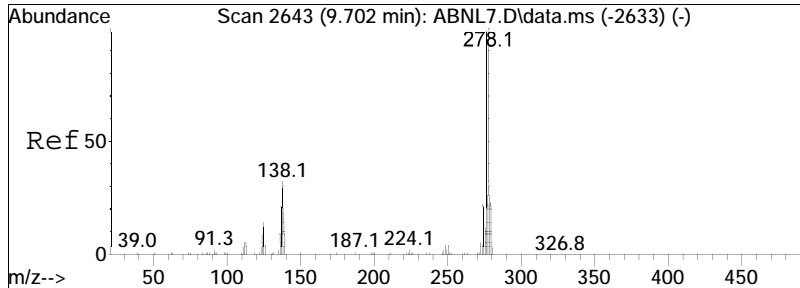




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 31.27 ug/mL
 RT: 9.932 min Scan# 2685
 Delta R.T. -0.006 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

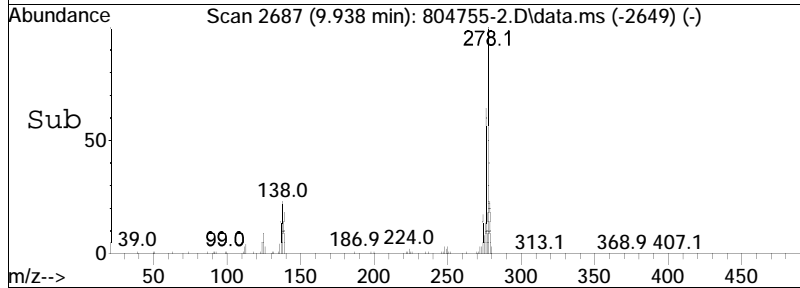
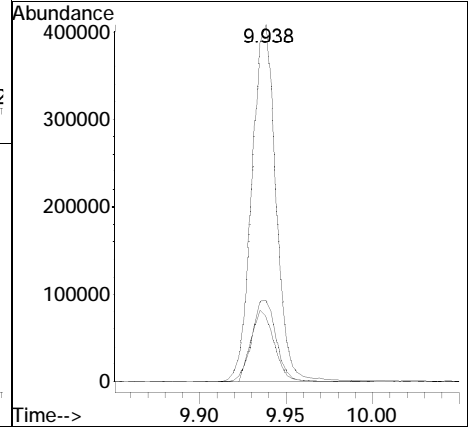
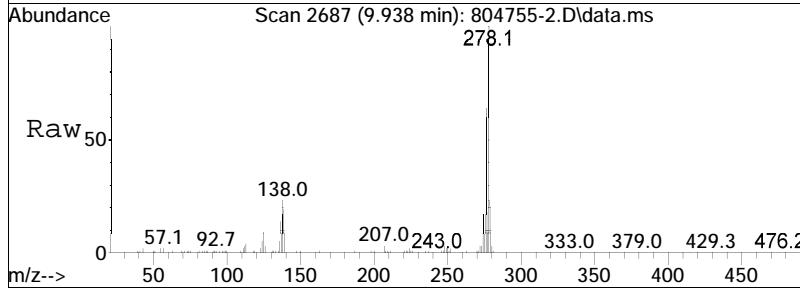
Tgt Ion	Resp	Lower	Upper
276	100		
138	32.1	21.4	32.0#
277	25.7	19.2	28.8

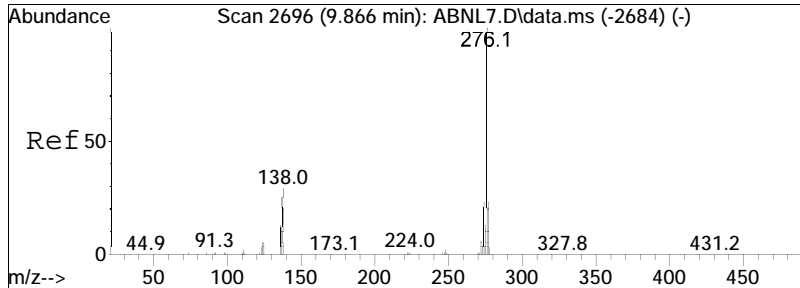




#115
 Dibenzo(a,h)anthracene
 Concen: 30.25 ug/ml
 RT: 9.938 min Scan# 2687
 Delta R.T. -0.007 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

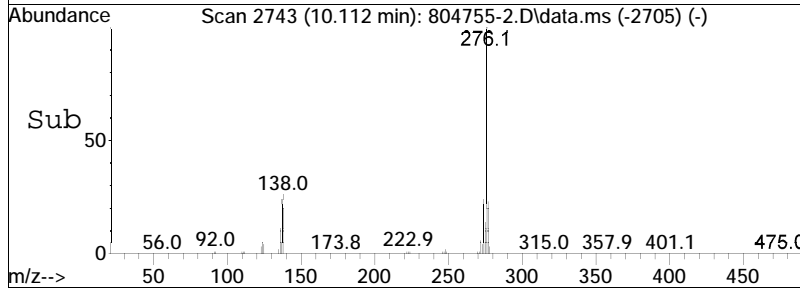
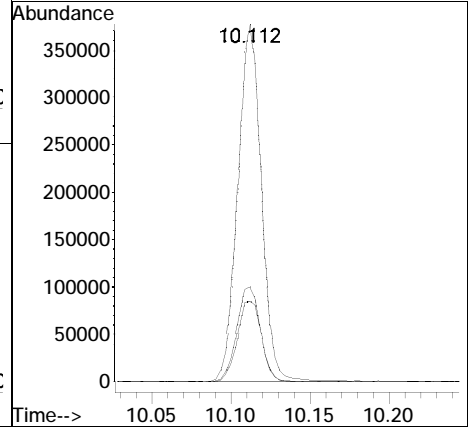
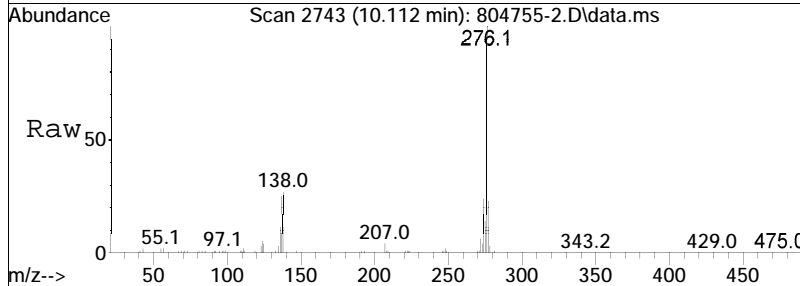
Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.5	17.1	25.7
279	23.3	19.3	28.9





#116
 Benzo(ghi)perylene
 Concen: 30.12 ug/ml
 RT: 10.112 min Scan# 2743
 Delta R.T. -0.006 min
 Lab File: 804755-2.D
 Acq: 19 Jul 2023 8:24 am

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.5	26.7	40.1#
277	23.3	19.4	29.2



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-3.d
 Acq On : 19 Jul 2023 2:01 am
 Operator : SV103:ek
 Sample : WG1803858-3,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 25 18:07:00 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 02:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.822	152	197922	40.000	ug/ml	0.00
Standard Area 1 = 229645			Recovery = 86.19%			
27) IS2_1,4-Dichlorobenzen...	3.822	152	197922	40.000	ug/ml	0.00
Standard Area 3 = 170348			Recovery = 116.19%			
32) IS3_1,4-Dichlorobenzen...	3.822	152	197922	40.000	ug/ml	0.00
Standard Area 2 = 151650			Recovery = 130.51%			
35) IS1_Naphthalene-d8	5.078	136	780775	40.000	ug/ml	0.00
Standard Area 1 = 870434			Recovery = 89.70%			
55) IS2_Naphthalene-d8	5.078	136	780775	40.000	ug/ml	0.00
Standard Area 3 = 647727			Recovery = 120.54%			
63) IS1_Acenaphthene-d10	6.769	164	438142	40.000	ug/ml	0.00
Standard Area 1 = 468195			Recovery = 93.58%			
83) IS2_Acenaphthene-d10	6.769	164	438142	40.000	ug/ml	0.00
Standard Area 3 = 342963			Recovery = 127.75%			
86) IS3_Acenaphthene-d10	6.769	164	438142	40.000	ug/ml	0.00
Standard Area 2 = 314489			Recovery = 139.32%			
88) IS1_Phenanthrene-d10	8.172	188	912753	40.000	ug/ml	0.00
Standard Area 1 = 951685			Recovery = 95.91%			
100) IS3_Phenanthrene-d10	8.172	188	912753	40.000	ug/ml	0.00
Standard Area 2 = 639108			Recovery = 142.82%			
104) IS1_Chrysene-d12	10.732	240	831319	40.000	ug/ml	0.00
Standard Area 1 = 883111			Recovery = 94.14%			
113) IS1_Perylene-d12	12.494	264	961990	40.000	ug/ml	0.00
Standard Area 1 = 990767			Recovery = 97.10%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.464	112	182428	33.071	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 66.14%			
7) Phenol-d6	3.563	99	234791	34.137	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 68.27%			
19) Nitrobenzene-d5	4.393	82	110268	19.320	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery = 77.28%			
46) 2-Fluorobiphenyl	6.160	172	238562	16.250	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery = 65.00%			
79) 2,4,6-Tribromophenol	7.527	330	82674	35.461	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 70.92%			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-3.d
 Acq On : 19 Jul 2023 2:01 am
 Operator : SV103:ek
 Sample : WG1803858-3,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 25 18:07:00 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 02:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	9.746	244	307645	14.488	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	57.95%
Target Compounds						Qvalue
6) 2-Chlorophenol	3.617	128	176053	27.464	ug/ml#	90
8) Phenol	3.575	94	217145	27.645	ug/ml#	96
9) Bis(2-chloroethyl)ether	3.606	93	147070	26.506	ug/ml#	84
14) Bis(2-chloroisopropyl)...	4.160	45	175382	19.761	ug/ml#	66
15) 2-Methylphenol	4.180	108	158019	28.859	ug/ml	99
16) Hexachloroethane	4.314	117	69569	26.496	ug/ml#	81
17) n-Nitrosodi-n-propylamine	4.291	70	121660	31.791	ug/ml	100
18) 3-Methylphenol/4-Methy...	4.345	108	183689	31.807	ug/ml#	28
20) Nitrobenzene	4.410	77	178678	31.028	ug/ml	96
21) Isophorone	4.663	82	322545	30.919	ug/ml	100
22) 2-Nitrophenol	4.731	139	94609	33.621	ug/ml	89
23) 2,4-Dimethylphenol	4.851	107	172538	29.195	ug/ml	97
24) Bis(2-chloroethoxy)met...	4.924	93	199255	29.412	ug/ml#	97
25) 2,4-Dichlorophenol	4.987	162	157287	30.041	ug/ml	97
28) Benzaldehyde	3.367	105	133458	31.362	ug/ml	94
29) Acetophenone	4.254	105	245861	28.547	ug/ml#	92
36) Naphthalene	5.098	128	511817	24.918	ug/ml	99
38) 4-Chloroaniline	5.197	65	62733	29.505	ug/ml	94
39) Hexachlorobutadiene	5.257	225	91711	27.010	ug/ml	99
40) p-Chloro-m-cresol	5.731	107	160498	31.192	ug/ml	97
41) 2-Methylnaphthalene	5.780	142	345182	26.997	ug/ml	96
43) Hexachlorocyclopentadiene	5.950	237	83607	22.655	ug/ml	96
44) 2,4,6-Trichlorophenol	6.087	196	115803	31.751	ug/ml	95
45) 2,4,5-Trichlorophenol	6.124	196	127372	30.905	ug/ml	98
47) 2-Chloronaphthalene	6.237	162	340464	27.052	ug/ml	99
48) 2-Nitroaniline	6.374	138	123472	31.347	ug/ml	86
51) Dimethyl phthalate	6.587	163	410708	28.354	ug/ml	100
52) Acenaphthylene	6.624	152	578557	29.896	ug/ml	98
53) 2,6-Dinitrotoluene	6.627	165	90121	30.278	ug/ml#	86
60) Caprolactam	5.516	55	76457	29.799	ug/ml#	89
61) 1,2,4,5-Tetrachloroben...	5.950	216	172493	29.290	ug/ml	99
62) Biphenyl	6.246	154	431359	26.854	ug/ml	98
64) 3-Nitroaniline	6.771	138	101574	26.336	ug/ml#	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-3.d
 Acq On : 19 Jul 2023 2:01 am
 Operator : SV103:ek
 Sample : WG1803858-3,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 25 18:07:00 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 02:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Acenaphthene	6.797	154	318456	25.054	ug/ml	94
66) 2,4-Dinitrophenol	6.888	184	27126	18.444	ug/ml	89
67) Dibenzofuran	6.967	168	492647	25.007	ug/ml	94
68) 2,4-Dinitrotoluene	7.010	165	127894	30.382	ug/ml#	79
69) 4-Nitrophenol	7.013	65	84805	33.818	ug/ml	96
71) 2,3,4,6-Tetrachlorophenol	7.115	232	102189	28.821	ug/ml	99
72) Diethyl phthalate	7.271	149	425139	27.698	ug/ml	99
73) Fluorene	7.291	166	399377	26.138	ug/ml	96
74) 4-Chlorophenyl phenyl ...	7.328	204	185140	25.646	ug/ml	91
75) 4-Nitroaniline	7.354	138	103588	26.484	ug/ml#	83
76) 4,6-Dinitro-o-cresol	7.397	198	71965	33.873	ug/ml#	79
77) NDPA/DPA	7.451	169	340081	26.040	ug/ml	95
80) 4-Bromophenyl phenyl e...	7.786	248	112689	26.248	ug/ml#	88
81) Hexachlorobenzene	7.820	284	137343	26.192	ug/ml	93
82) Pentachlorophenol	8.030	266	77218	24.721	ug/ml	96
87) Atrazine	8.007	200	119502	34.147	ug/ml	99
89) Phenanthrene	8.195	178	606549	24.112	ug/ml	99
90) Anthracene	8.243	178	626869	25.292	ug/ml	98
91) Carbazole	8.428	167	595901	25.666	ug/ml	98
92) Di-n-butylphthalate	8.848	149	756213	30.336	ug/ml	99
93) Fluoranthene	9.326	202	691020	26.174	ug/ml	98
95) Pyrene	9.530	202	729802	25.705	ug/ml	99
97) Butyl benzyl phthalate	10.269	149	350077	29.004	ug/ml	93
105) Benzo(a)anthracene	10.724	228	694938	25.234	ug/ml	99
106) 3,3'-Dichlorobenzidine	10.749	252	236183	23.498	ug/ml	98
107) Chrysene	10.761	228	668656	24.255	ug/ml	98
108) Bis(2-ethylhexyl)phtha...	10.934	149	540274	28.090	ug/ml#	96
109) Di-n-octylphthalate	11.744	149	918409	28.696	ug/ml#	91
110) Benzo(b)fluoranthene	12.003	252	666444	24.930	ug/ml	99
111) Benzo(k)fluoranthene	12.039	252	668151	24.364	ug/ml	99
112) Benzo(a)pyrene	12.412	252	637519	27.654	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	13.926	276	569976	27.776	ug/mL	98
115) Dibenzo(a,h)anthracene	13.986	278	615819	25.032	ug/ml	98
116) Benzo(ghi)perylene	14.264	276	630990	25.185	ug/ml	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-3.d
 Acq On : 19 Jul 2023 2:01 am
 Operator : SV103:ek
 Sample : WG1803858-3,32,,mg
 Misc : wg1804789,WG1803858,ical20013
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 25 18:07:00 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 02:21:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

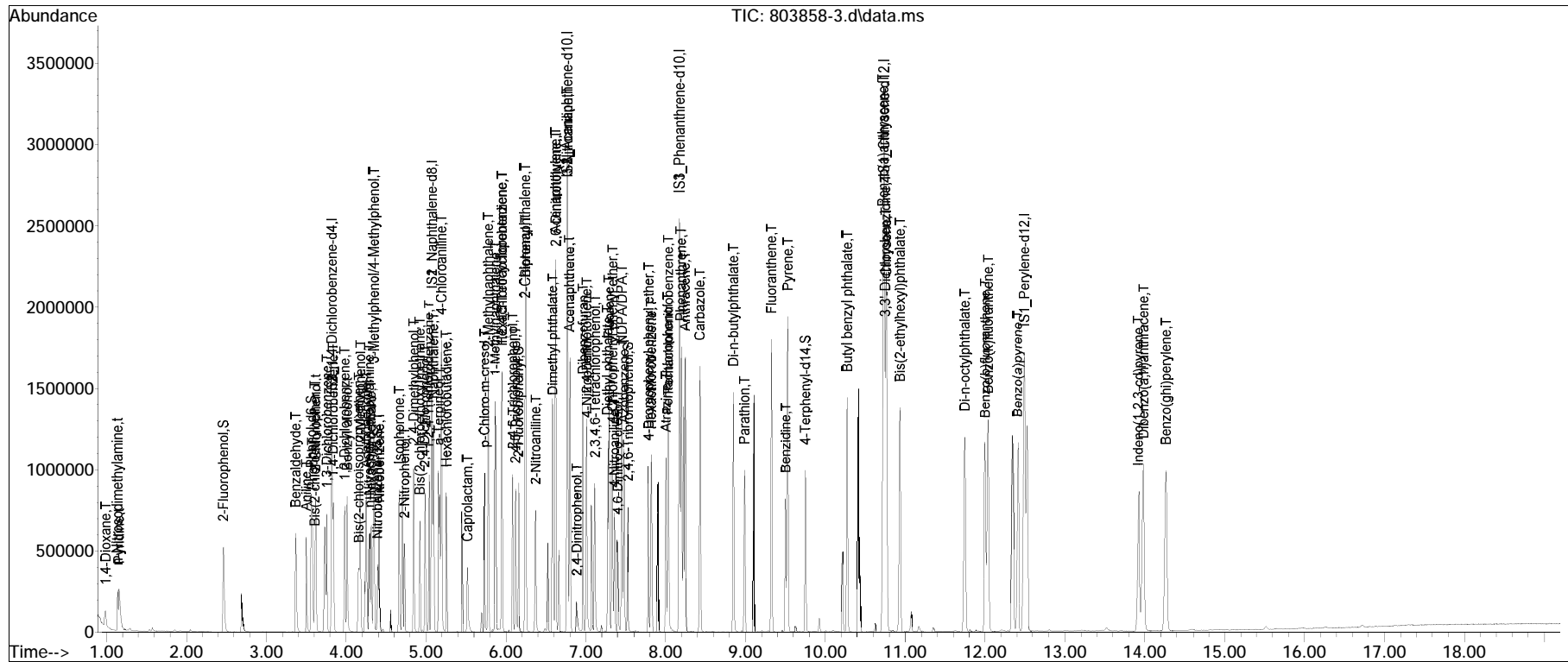
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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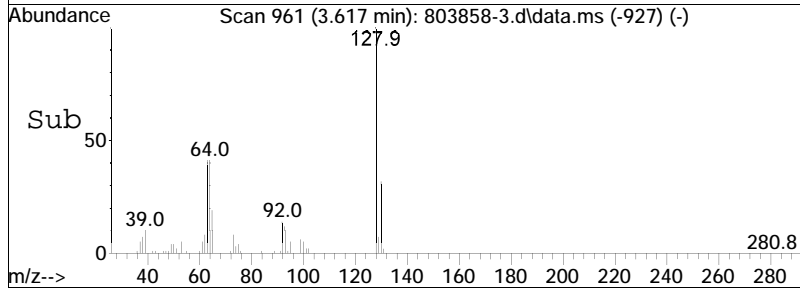
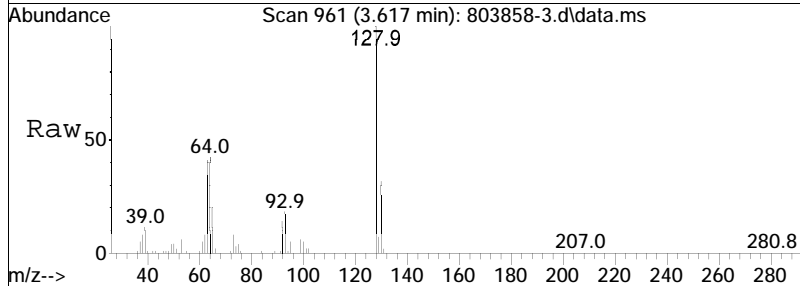
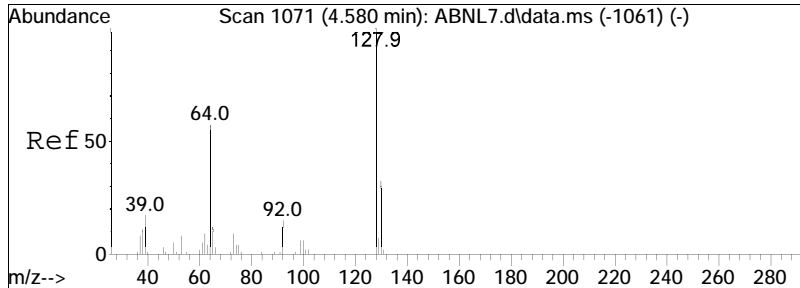
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
Data File : 803858-3.d
Acq On : 19 Jul 2023 2:01 am
Operator : SV103:ek
Sample : WG1803858-3,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 25 18:07:00 2023
Quant Method : I:\8270\sv103\230718n\Fs230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 02:21:43 2023
Response via : Initial Calibration

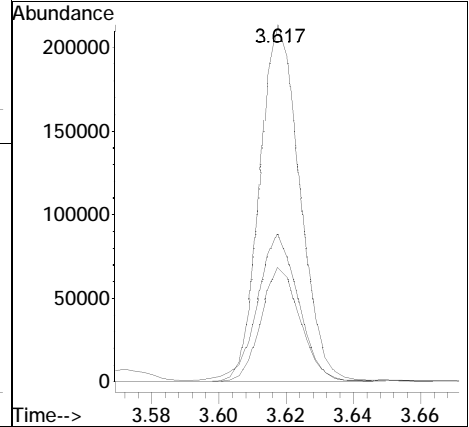
Sub List : 8270TCL_REV2 - TCL/CT/MAn\AP90718n.d•

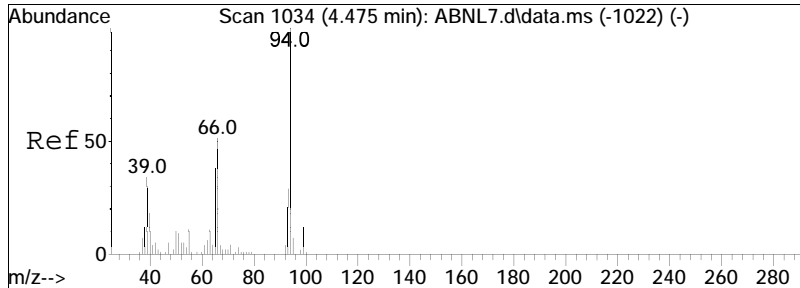




#6
 2-Chlorophenol
 Concen: 27.46 ug/ml
 RT: 3.617 min Scan# 961
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

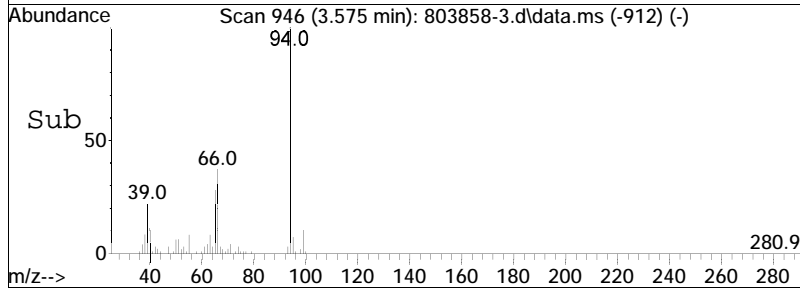
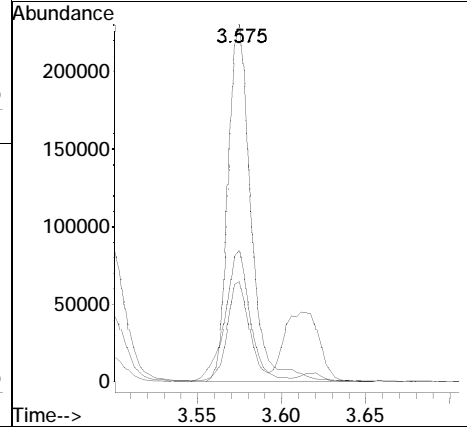
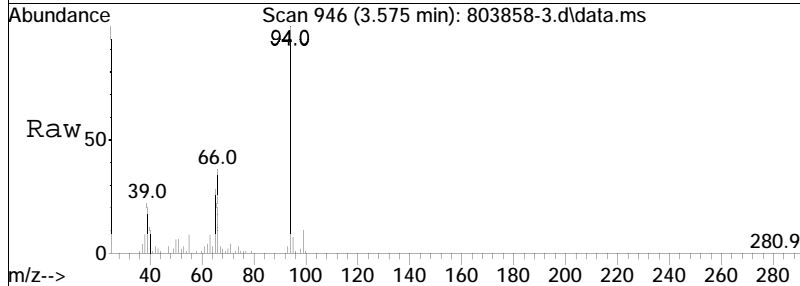
Tgt Ion	Ratio	Lower	Upper
128	100		
64	42.5	42.7	64.1#
130	31.4	25.8	38.6

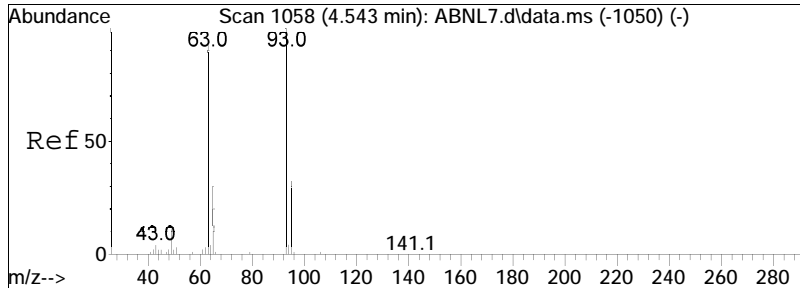




#8
 Phenol
 Concen: 27.64 ug/ml
 RT: 3.575 min Scan# 946
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

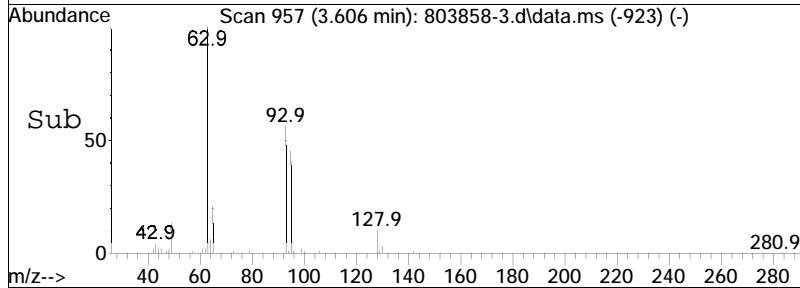
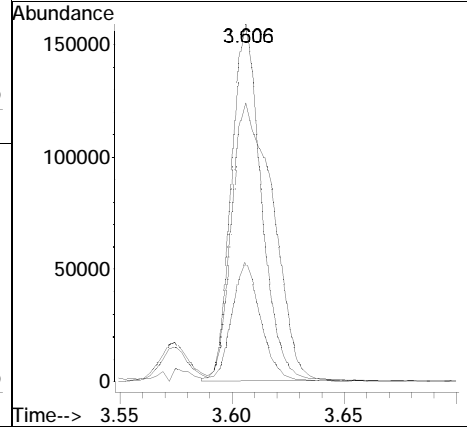
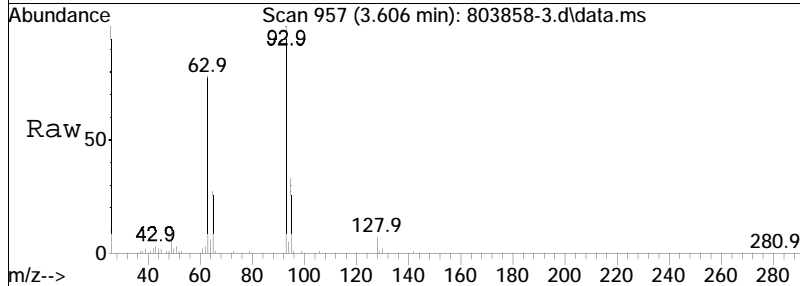
Tgt Ion:	94	Resp:	217145
Ion Ratio	Lower	Upper	
94	100		
65	27.5	20.5	30.7
66	40.6	0.0	0.0#

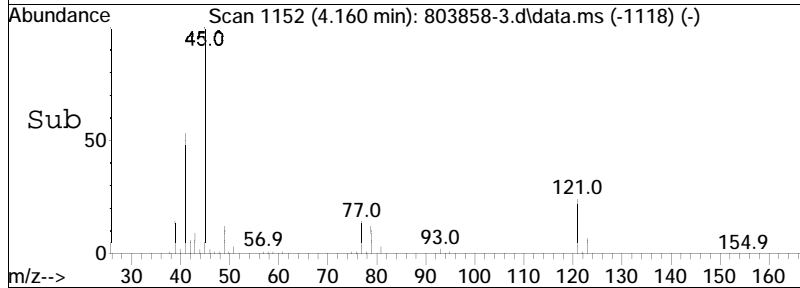
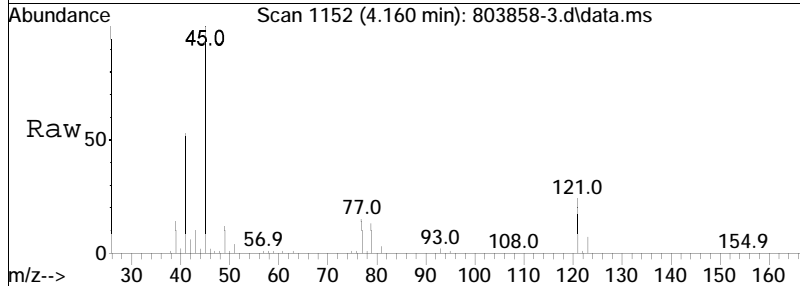
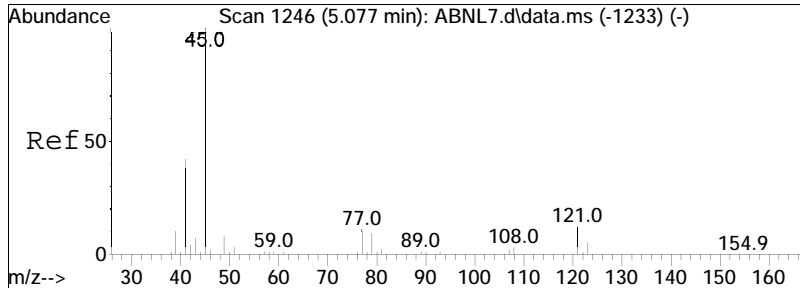




#9
 Bis(2-chloroethyl)ether
 Concen: 26.51 ug/ml
 RT: 3.606 min Scan# 957
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

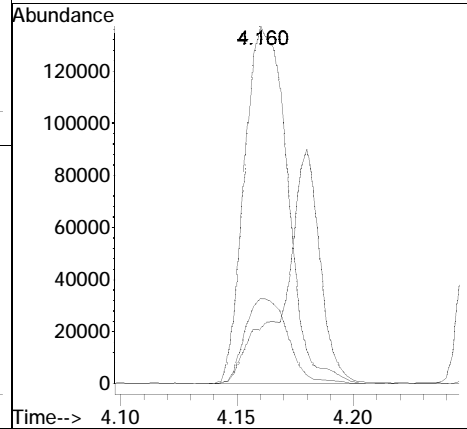
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
93	100		
63	107.6	70.4	105.6#
95	32.5	25.8	38.6

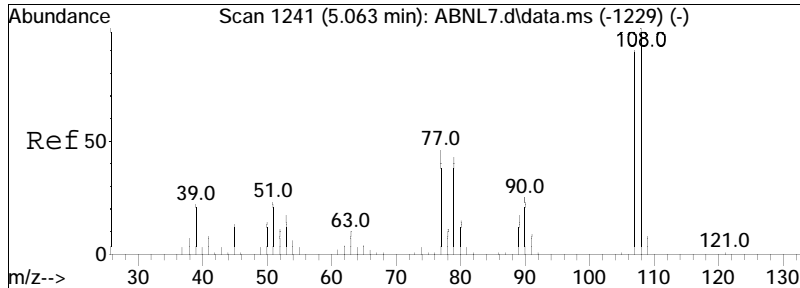




#14
 Bis(2-chloroisopropyl) ether
 Concen: 19.76 ug/ml
 RT: 4.160 min Scan# 1152
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

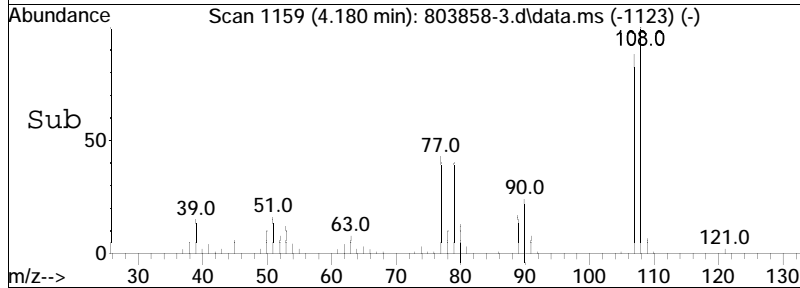
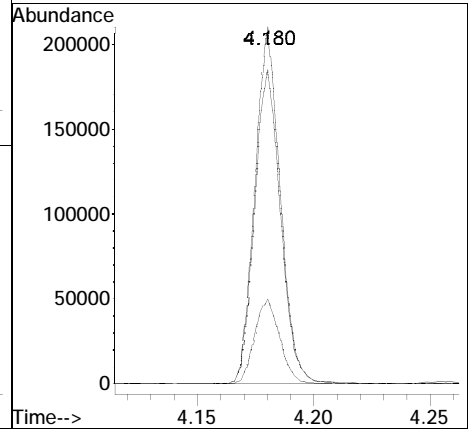
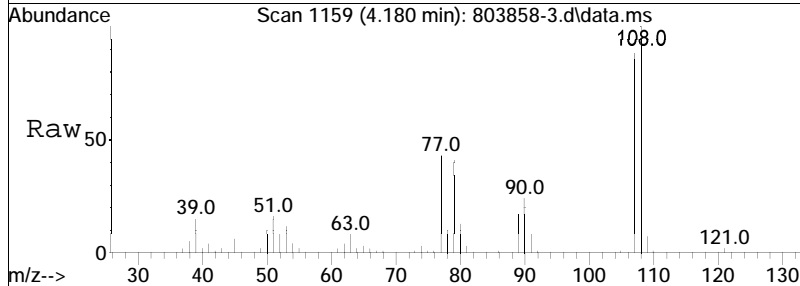
Tgt Ion:	45	Resp:	175382
Ion Ratio	100	Lower	Upper
45	100		
121	24.1	12.6	19.0#
77	56.0	26.4	39.6#

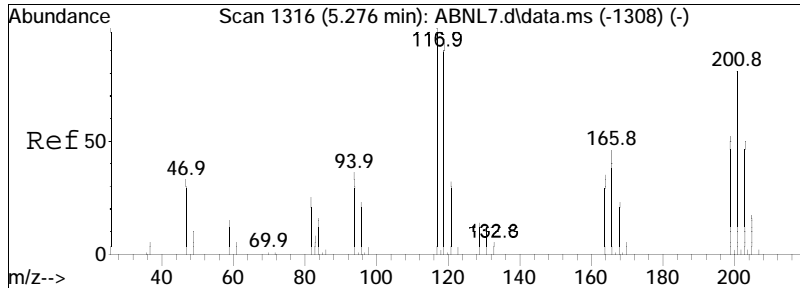




#15
 2-Methylphenol
 Concen: 28.86 ug/ml
 RT: 4.180 min Scan# 1159
 Delta R.T. 0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

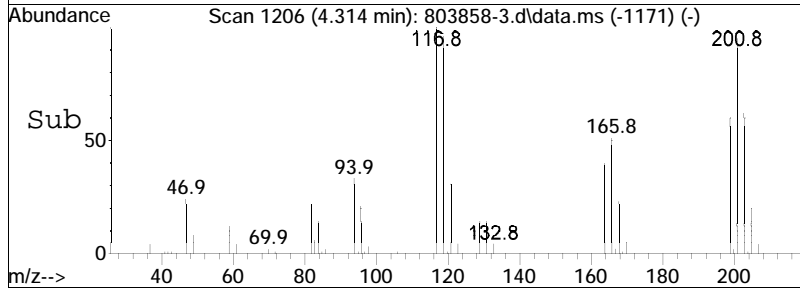
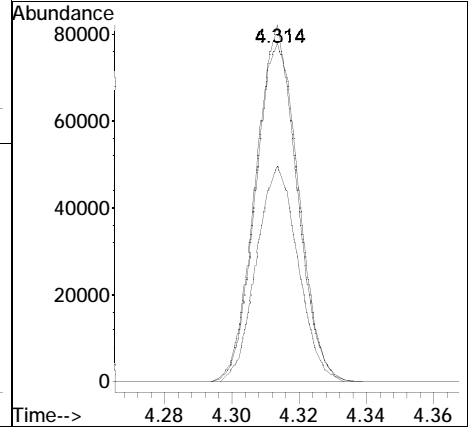
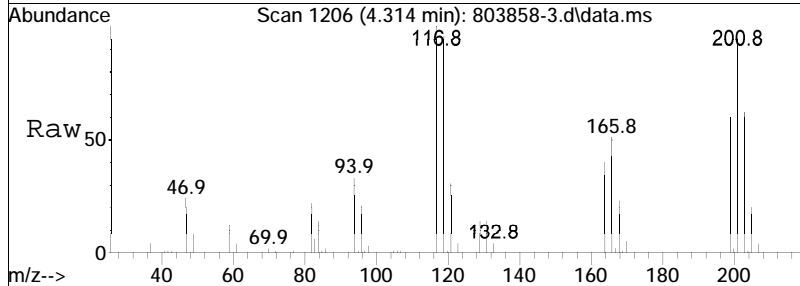
Tgt Ion	Ratio	Lower	Upper
108	100		
107	90.3	72.8	109.2
90	23.7	20.2	30.4

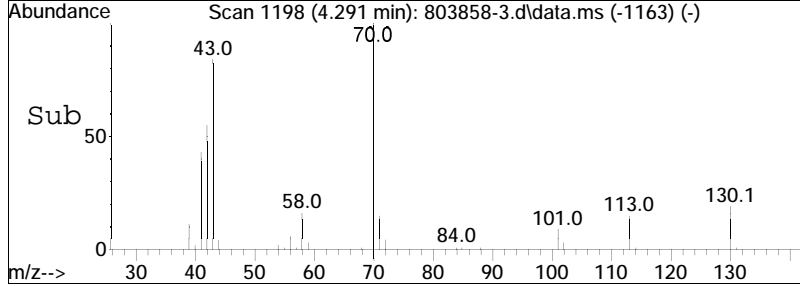
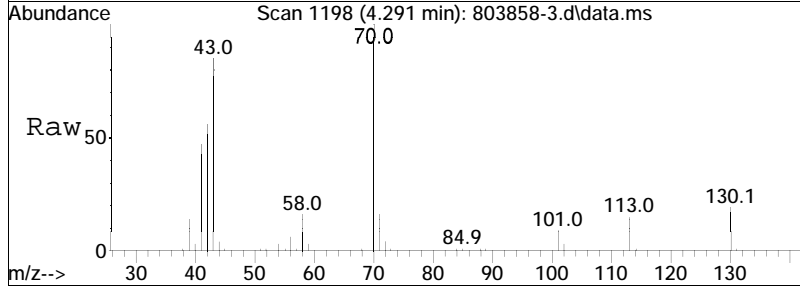
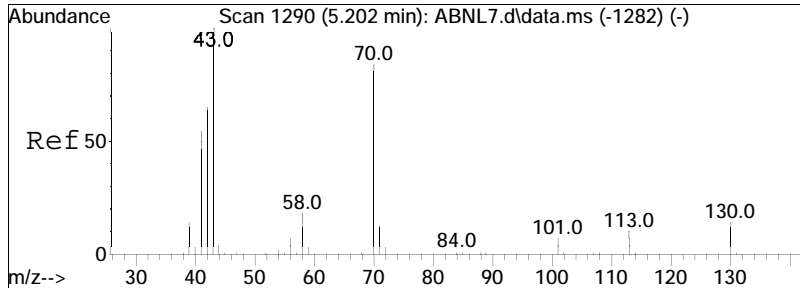




#16
 Hexachloroethane
 Concen: 26.50 ug/ml
 RT: 4.314 min Scan# 1206
 Delta R.T. -0.000 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

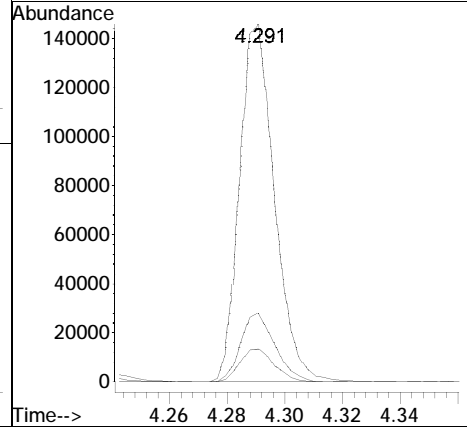
Tgt Ion	Resp	Lower	Upper
117	100		
201	99.1	64.5	96.7#
199	61.0	40.3	60.5#

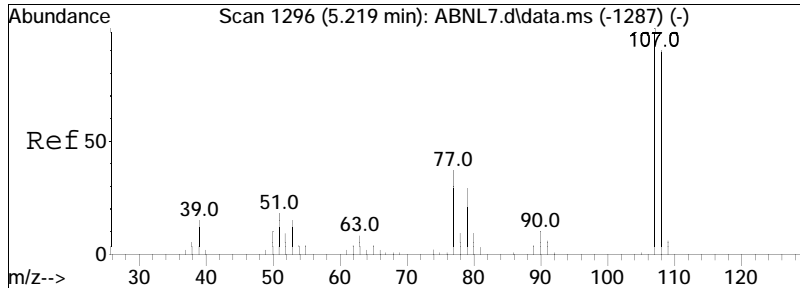




#17
 n-Nitrosodi-n-propylamine
 Concen: 31.79 ug/ml
 RT: 4.291 min Scan# 1198
 Delta R.T. -0.000 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

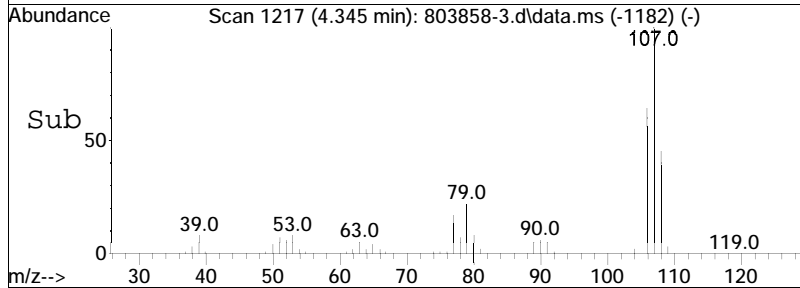
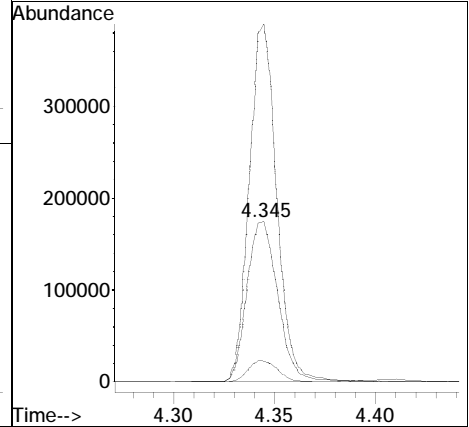
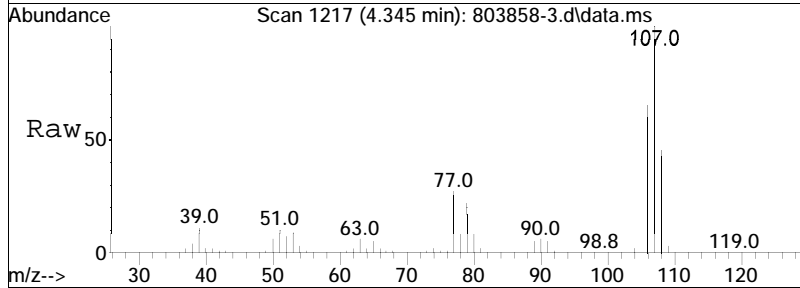
Tgt Ion:	70	Resp:	121660
Ion Ratio	Lower	Upper	
70	100		
130	18.8	15.0	22.4
101	9.2	7.4	11.0

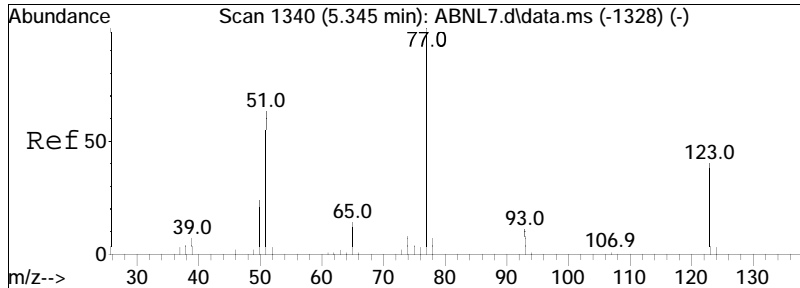




#18
 3-Methylphenol/4-Methylphenol
 Concen: 31.81 ug/ml
 RT: 4.345 min Scan# 1217
 Delta R.T. -0.000 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

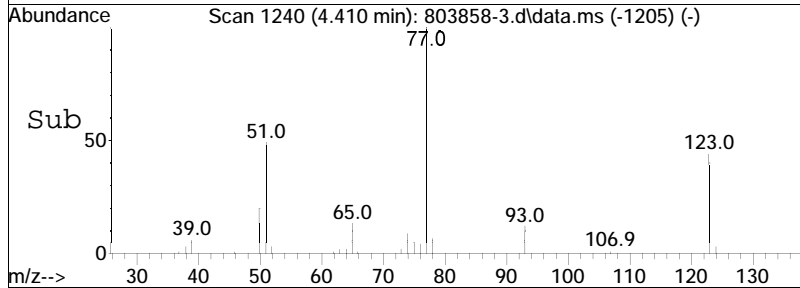
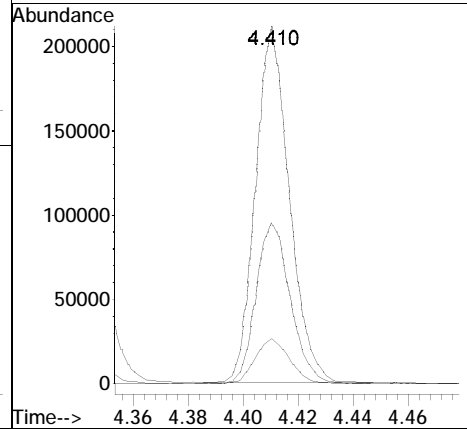
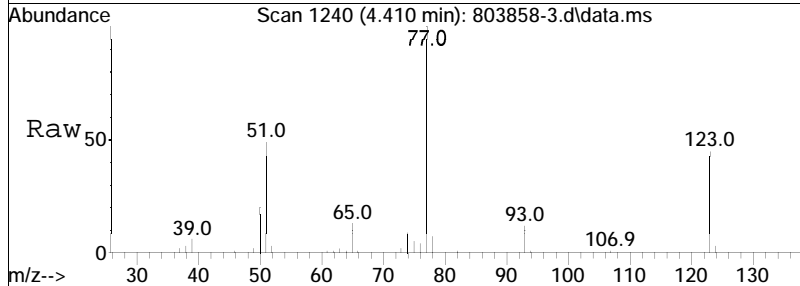
Tgt Ion	Resp	Lower	Upper
108	183689		
108	100		
107	198.0	90.4	135.6#
90	13.0	9.2	13.8

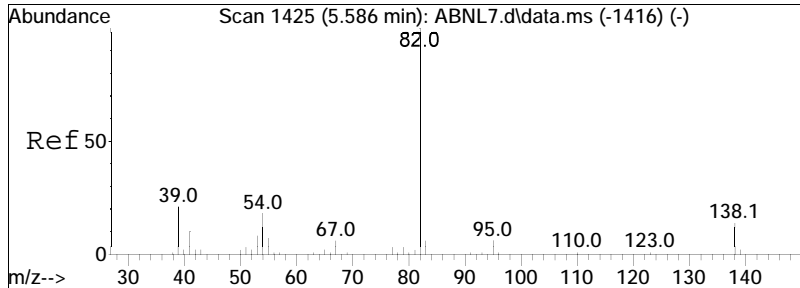




#20
 Nitrobenzene
 Concen: 31.03 ug/ml
 RT: 4.410 min Scan# 1240
 Delta R.T. -0.000 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

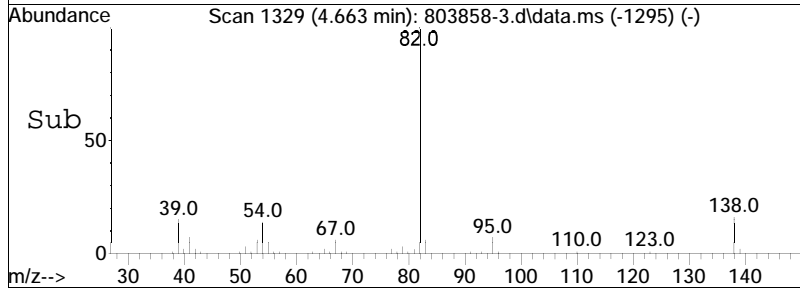
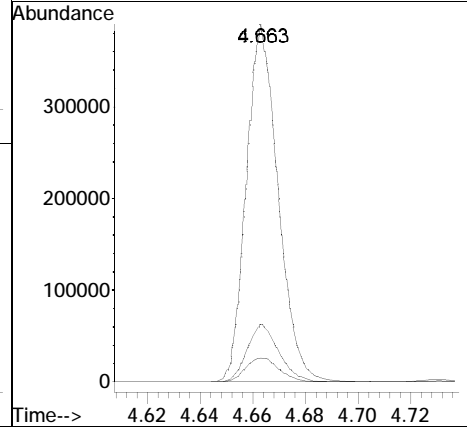
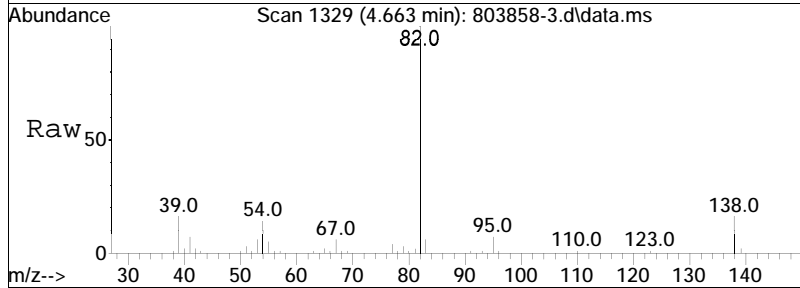
Tgt Ion	Resp	Lower	Upper
77	100		
123	46.2	35.0	52.4
65	13.4	11.5	17.3

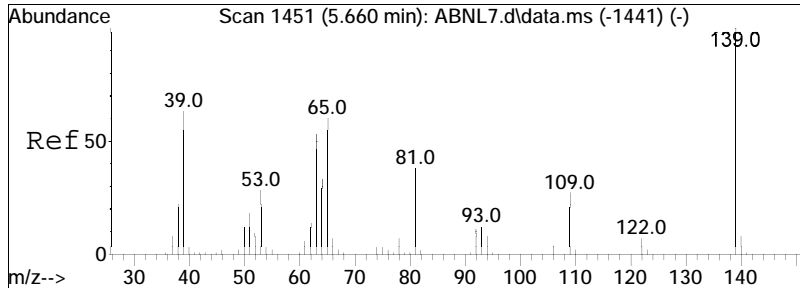




#21
 Isophorone
 Concen: 30.92 ug/ml
 RT: 4.663 min Scan# 1329
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

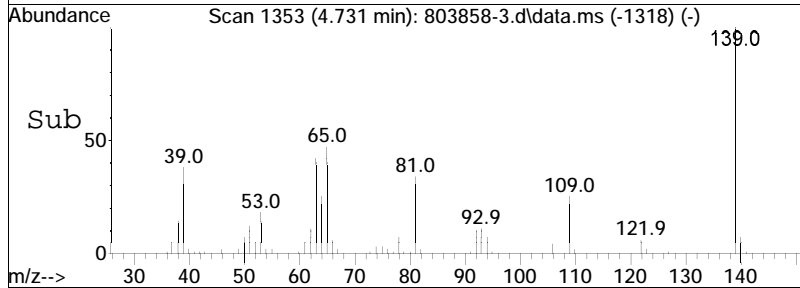
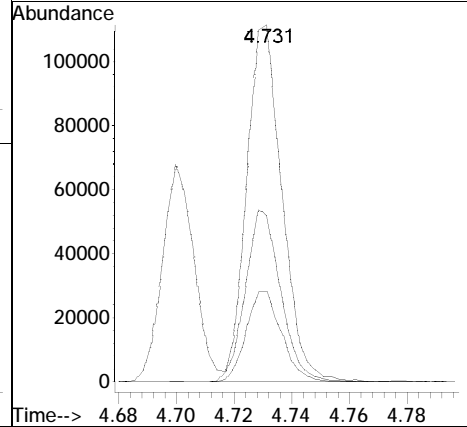
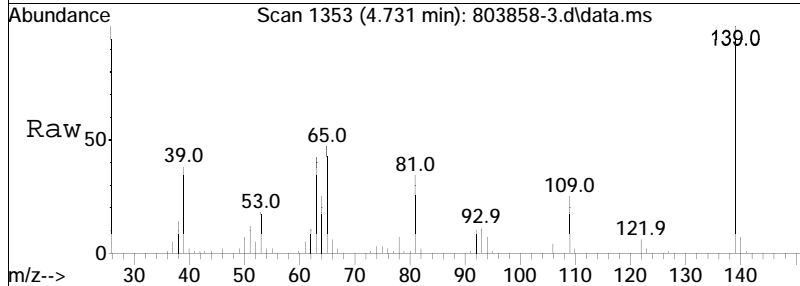
Tgt Ion:	82	Resp:	322545
Ion Ratio	Lower	Upper	
82	100		
138	16.1	12.8	19.2
95	7.1	5.5	8.3

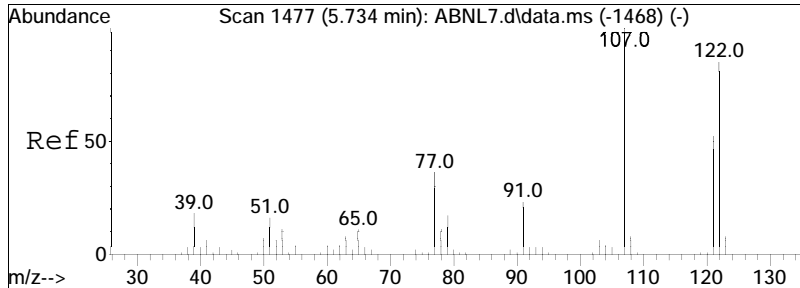




#22
 2-Nitrophenol
 Concen: 33.62 ug/ml
 RT: 4.731 min Scan# 1353
 Delta R.T. -0.000 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

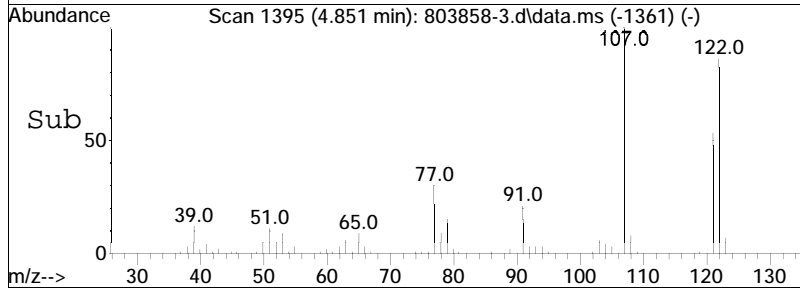
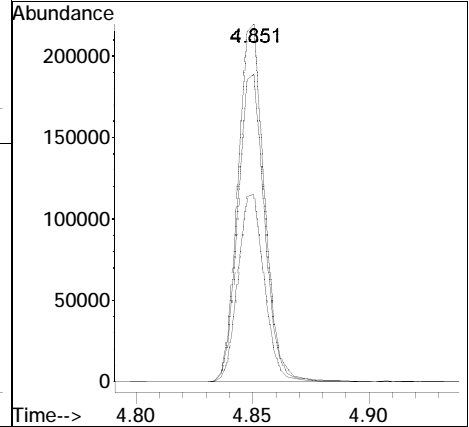
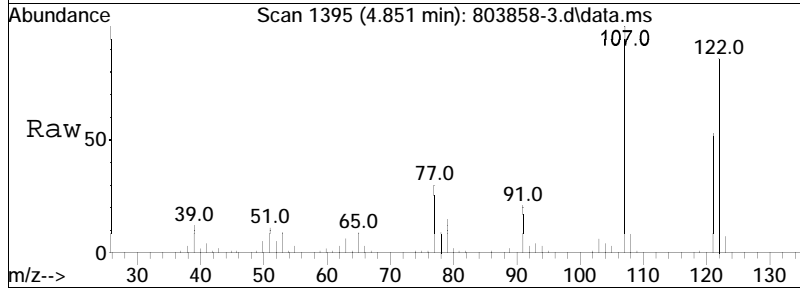
Tgt Ion	Resp	Lower	Upper
139	100		
109	25.7	24.8	37.2
65	47.9	45.5	68.3

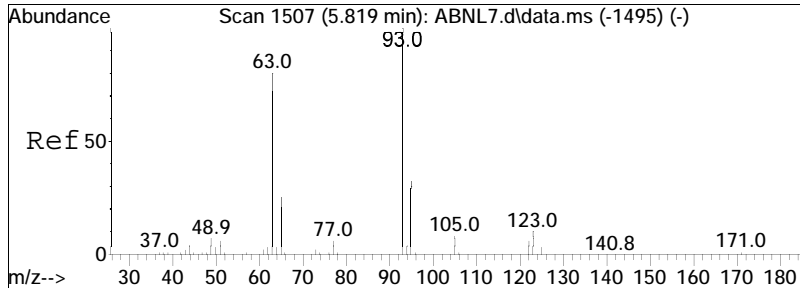




#23
 2,4-Dimethylphenol
 Concen: 29.19 ug/ml
 RT: 4.851 min Scan# 1395
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

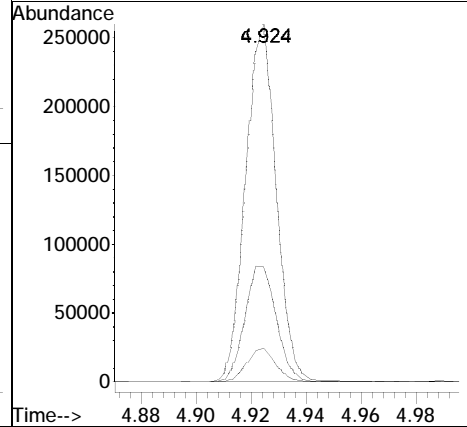
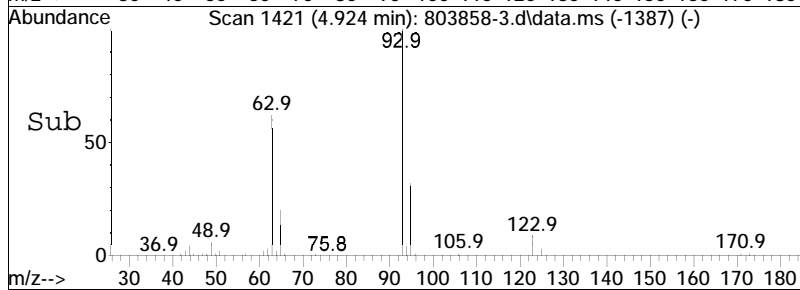
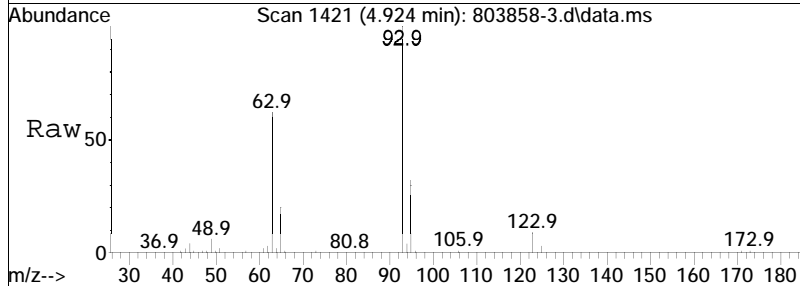
Tgt Ion	Resp	Lower	Upper
107	100		
121	52.3	39.7	59.5
122	86.0	66.8	100.2

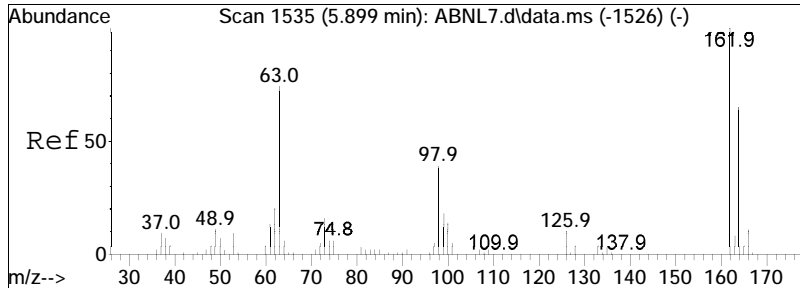




#24
 Bis(2-chloroethoxy)methane
 Concen: 29.41 ug/ml
 RT: 4.924 min Scan# 1421
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

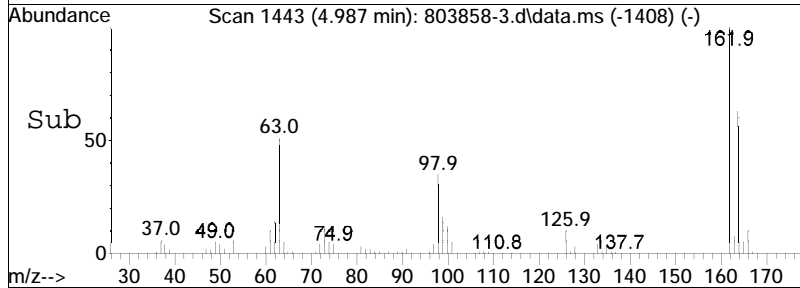
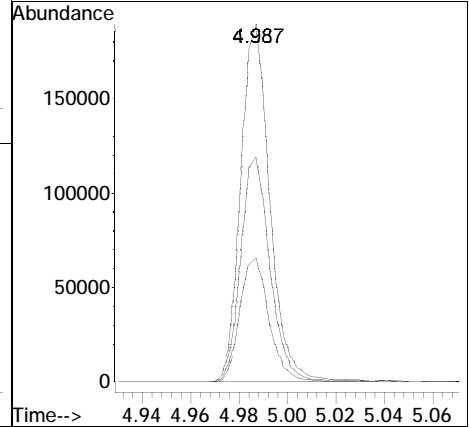
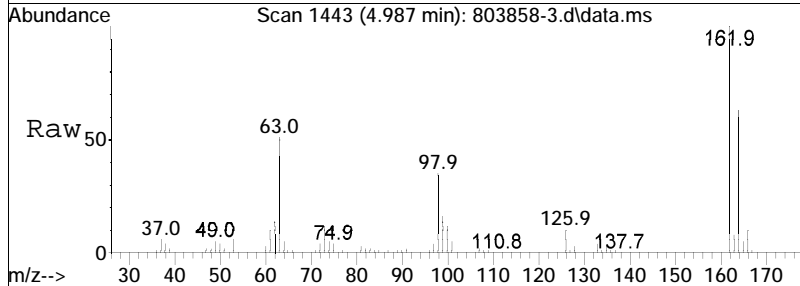
Tgt Ion:	93	Resp:	199255
Ion Ratio	Lower	Upper	
93	100		
95	33.4	26.1	39.1
123	9.0	9.8	14.8#

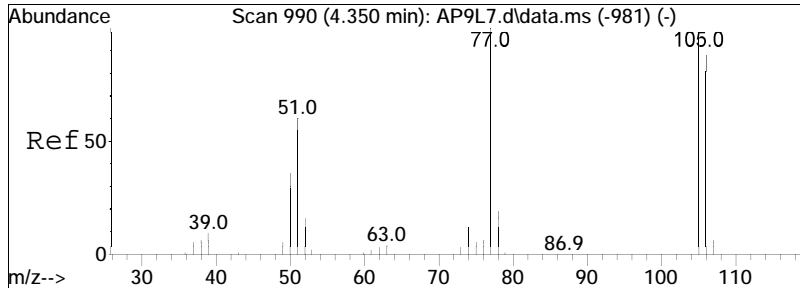




#25
 2,4-Dichlorophenol
 Concen: 30.04 ug/ml
 RT: 4.987 min Scan# 1443
 Delta R.T. -0.000 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

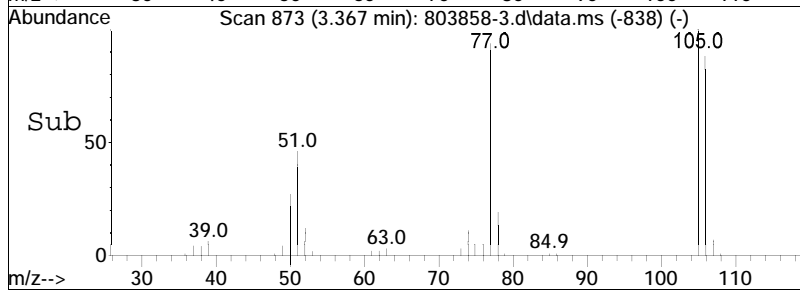
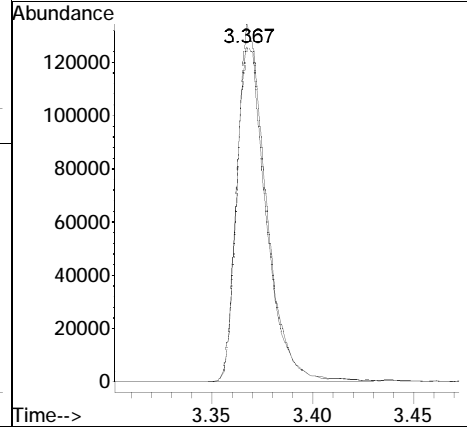
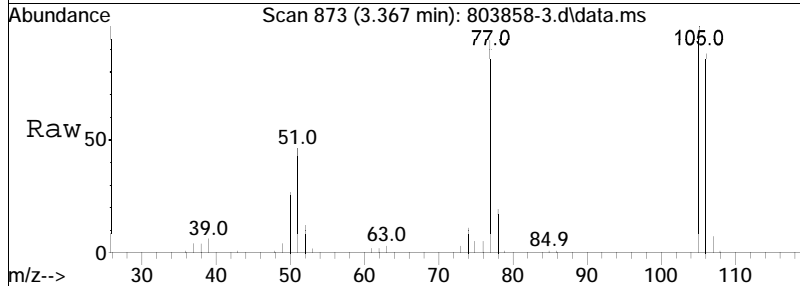
Tgt Ion:	162	Resp:	157287
Ion Ratio	Lower	Upper	
162	100		
164	63.7	50.4	75.6
98	35.2	31.6	47.4

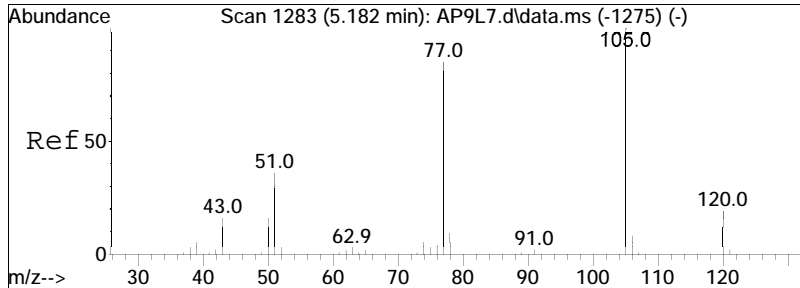




#28
 Benzaldehyde
 Concen: 31.36 ug/ml
 RT: 3.367 min Scan# 873
 Delta R.T. 0.000 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

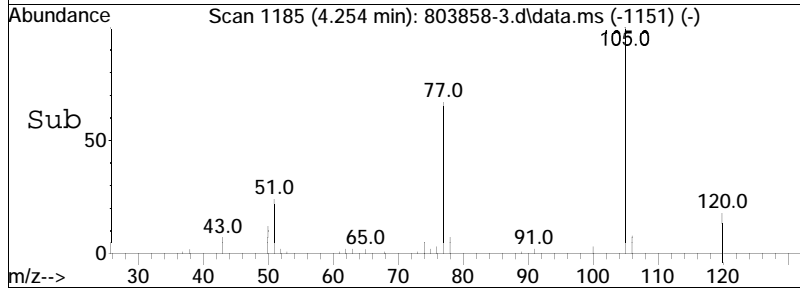
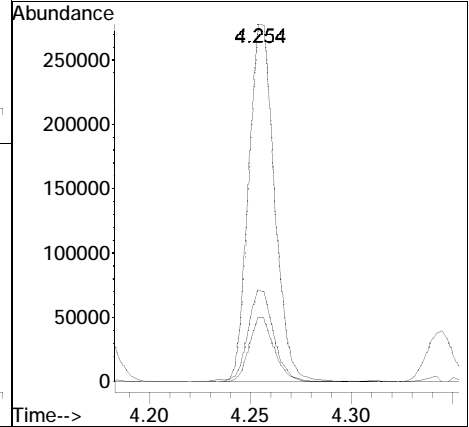
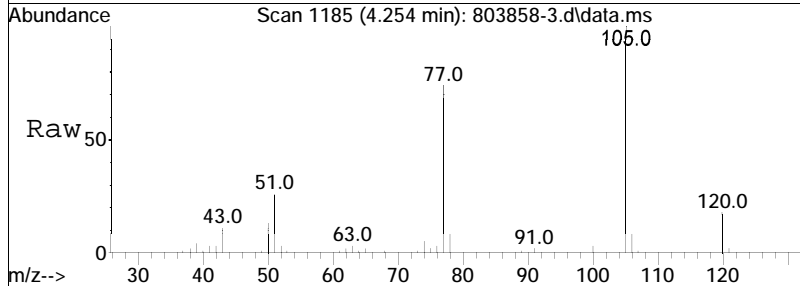
Tgt Ion	105	77	Resp	133458	Lower	Upper
Ion Ratio	100	95.3			72.0	108.0

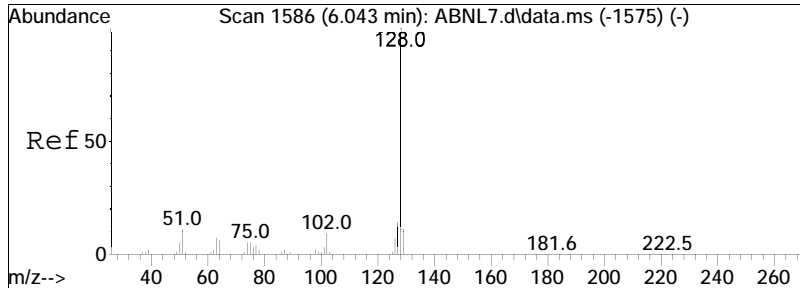




#29
 Acetophenone
 Concen: 28.55 ug/ml
 RT: 4.254 min Scan# 1185
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

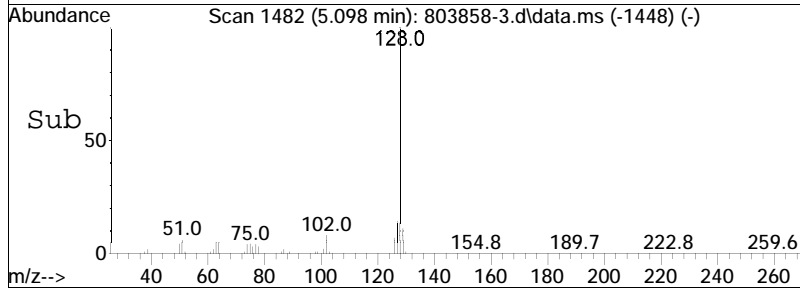
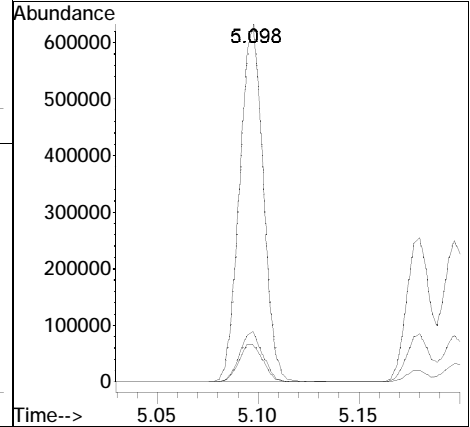
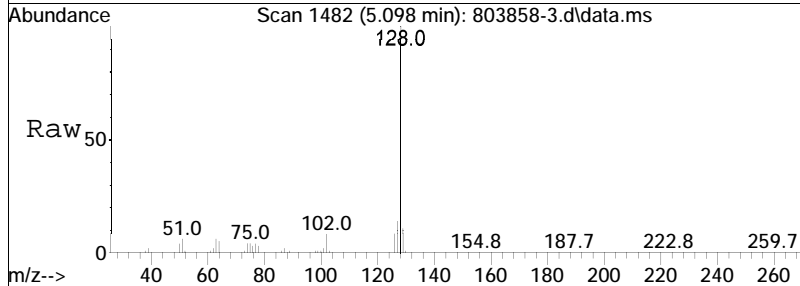
Tgt Ion	Resp	Lower	Upper
105	245861		
105	100		
120	17.5	18.0	27.0#
51	26.2	23.8	35.6

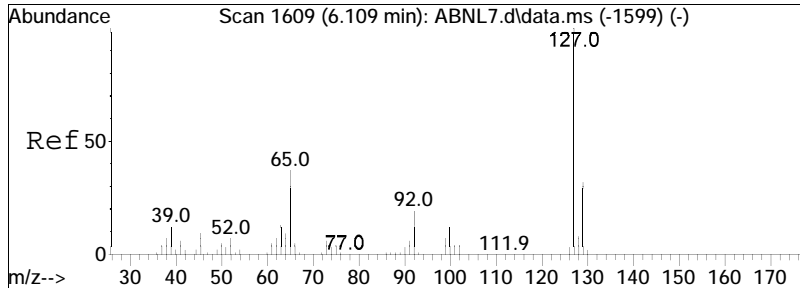




#36
 Naphthalene
 Concen: 24.92 ug/ml
 RT: 5.098 min Scan# 1482
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

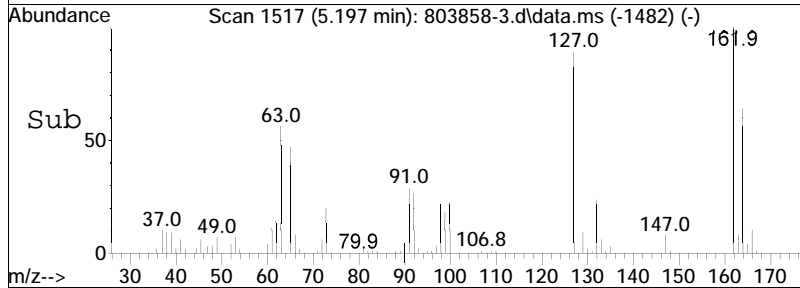
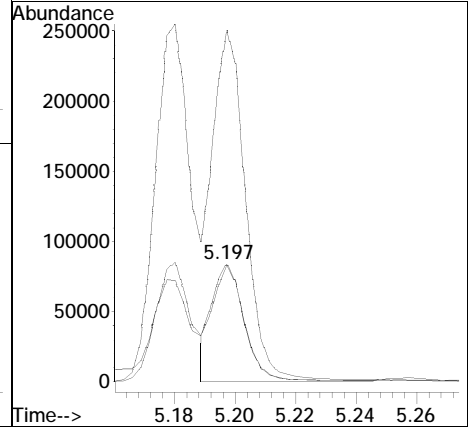
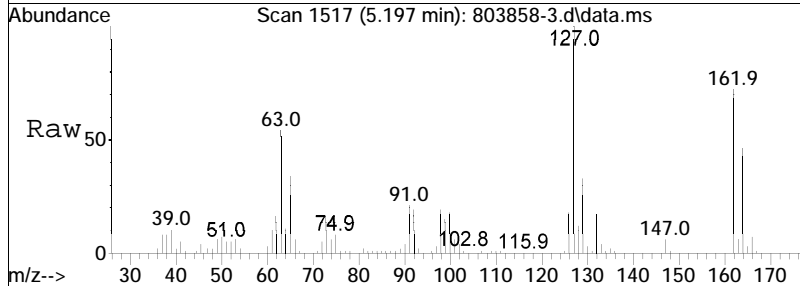
Tgt Ion	Resp	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.8	10.7	16.1

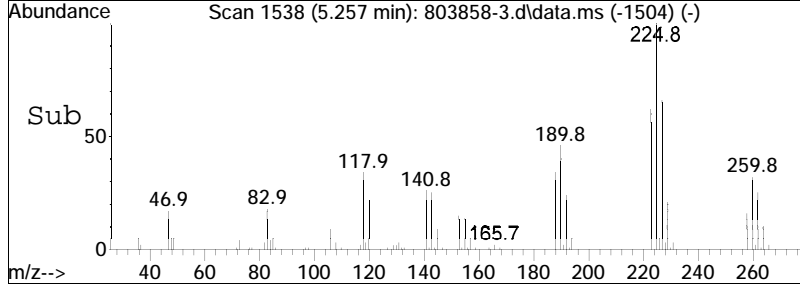
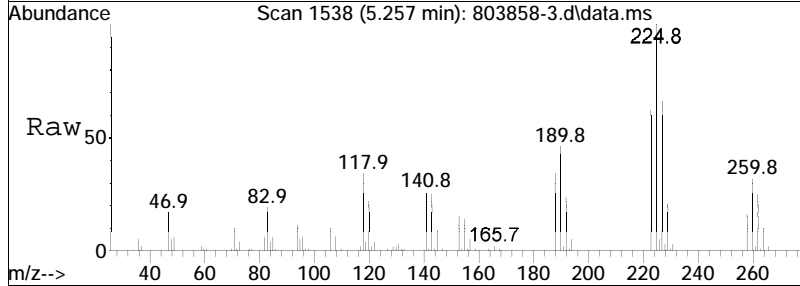
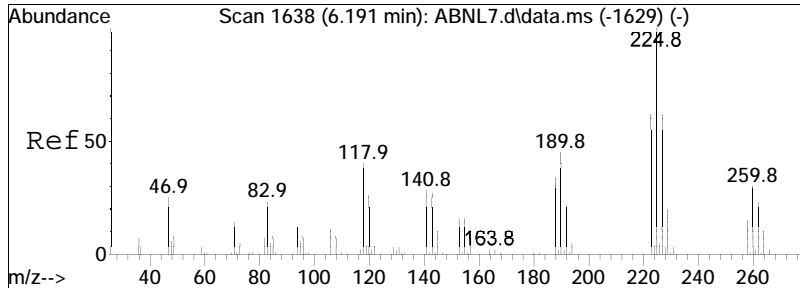




#38
 4-Chloroaniline
 Concen: 29.51 ug/ml
 RT: 5.197 min Scan# 1517
 Delta R.T. -0.000 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

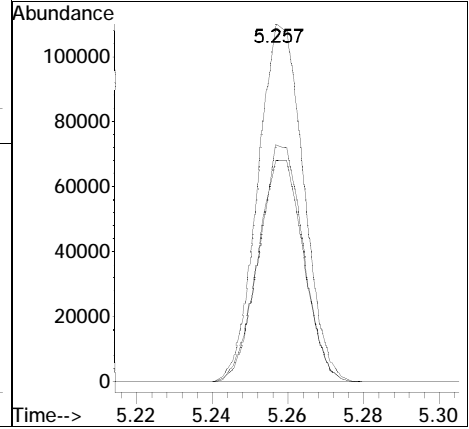
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
65	100		
127	304.9	233.2	349.8
129	97.1	74.6	111.8

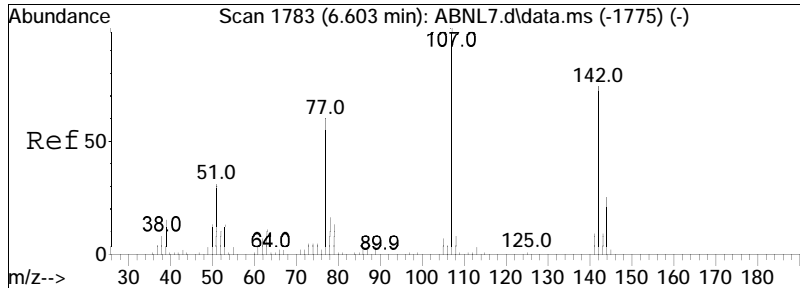




#39
 Hexachlorobutadiene
 Concen: 27.01 ug/ml
 RT: 5.257 min Scan# 1538
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

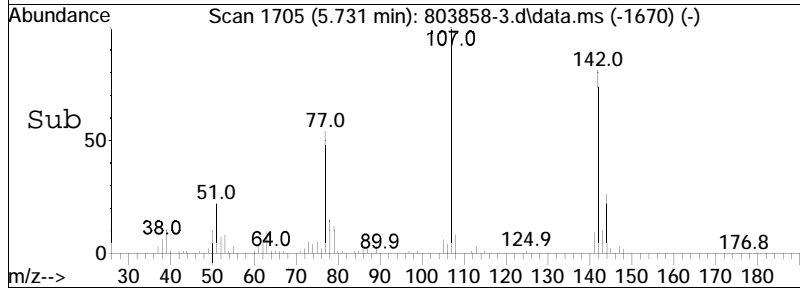
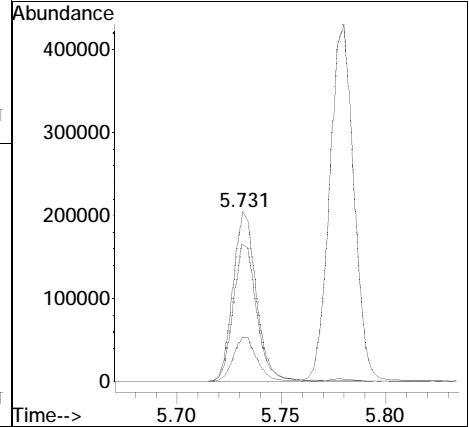
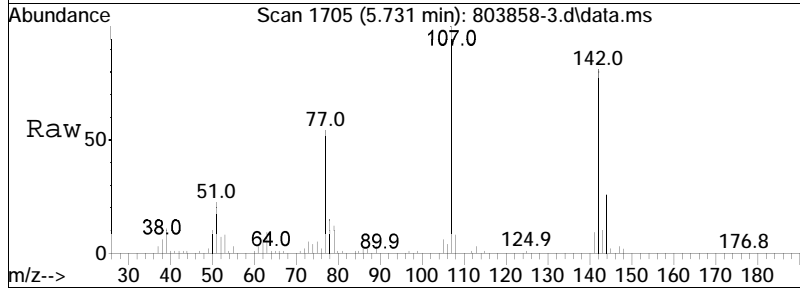
Tgt Ion	Resp	Lower	Upper
225	100		
223	62.7	49.4	74.0
227	64.3	50.8	76.2

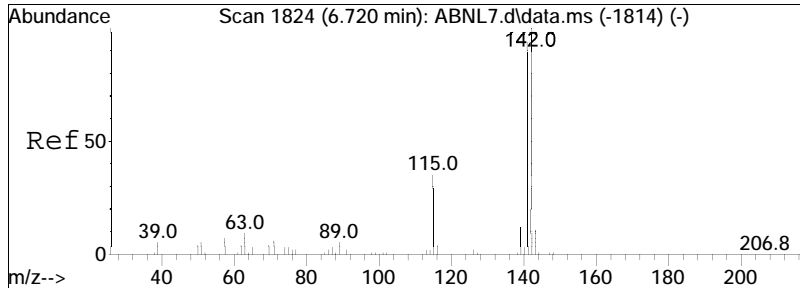




#40
 p-Chloro-m-cresol
 Concen: 31.19 ug/ml
 RT: 5.731 min Scan# 1705
 Delta R.T. -0.000 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

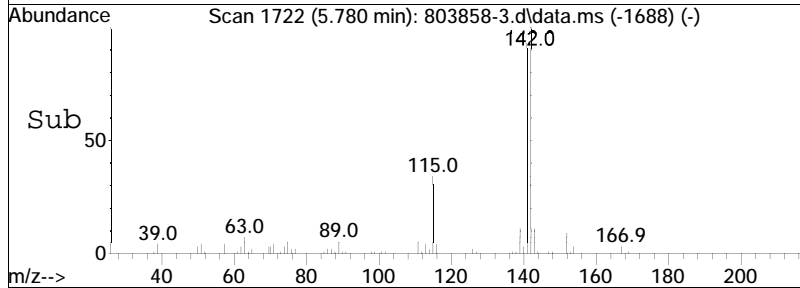
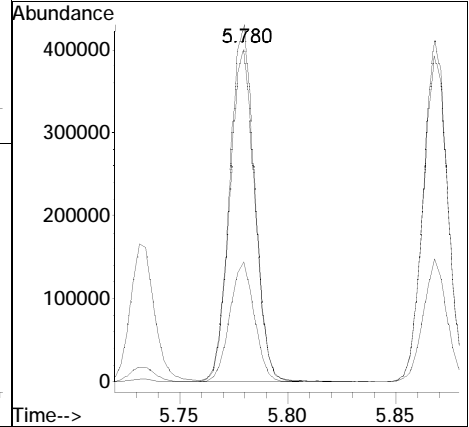
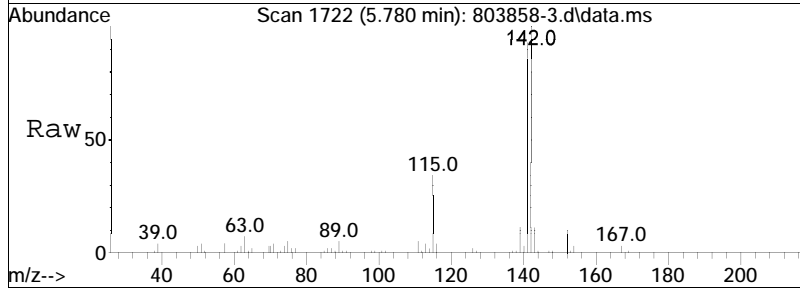
Tgt Ion	Resp	Lower	Upper
107	100		
144	26.2	19.6	29.4
142	80.3	62.2	93.4

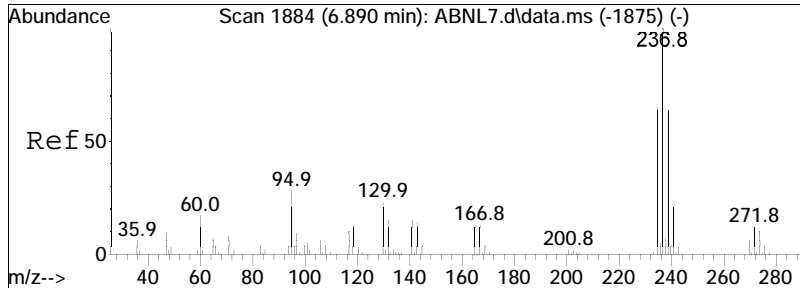




#41
 2-Methylnaphthalene
 Concen: 27.00 ug/ml
 RT: 5.780 min Scan# 1722
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

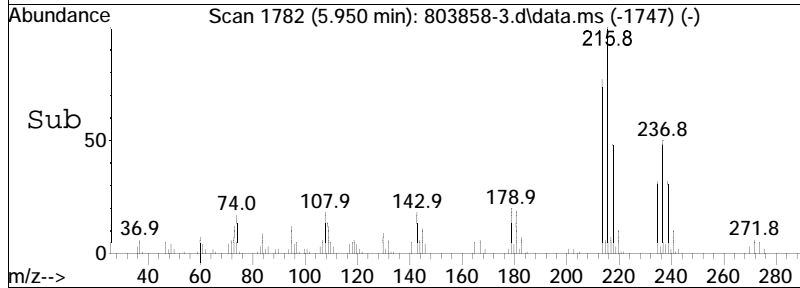
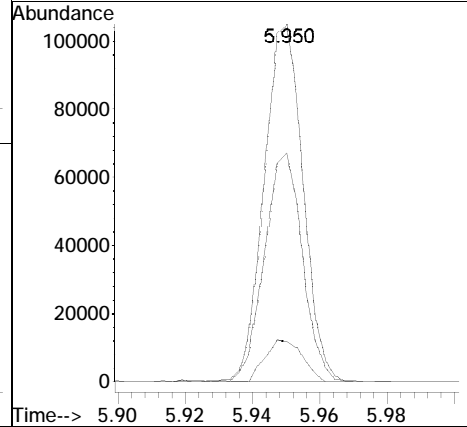
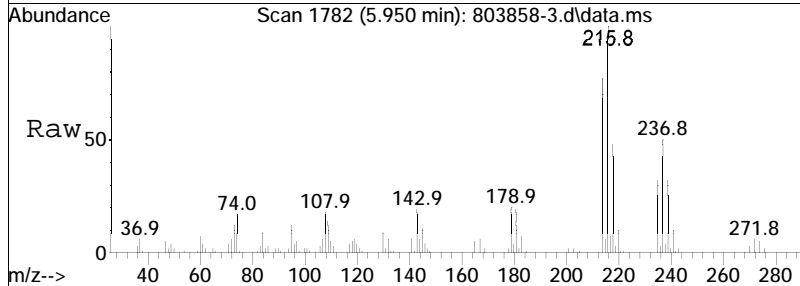
Tgt Ion	Resp	Lower	Upper
142	100		
141	92.9	71.8	107.8
115	33.2	29.1	43.7

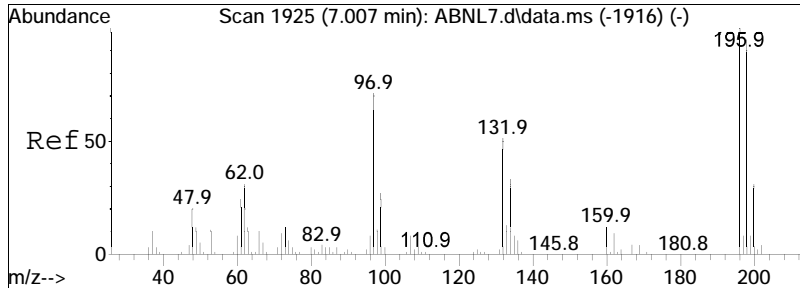




#43
 Hexachlorocyclopentadiene
 Concen: 22.65 ug/ml
 RT: 5.950 min Scan# 1782
 Delta R.T. -0.000 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

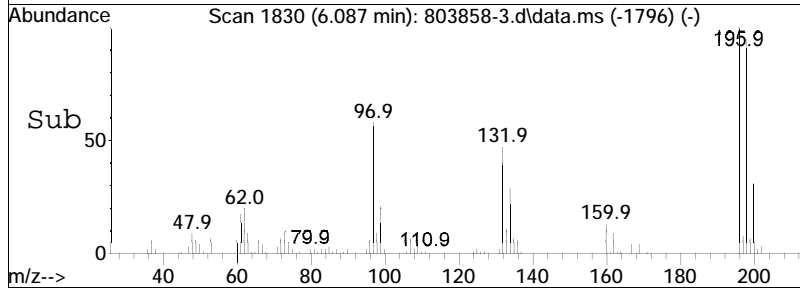
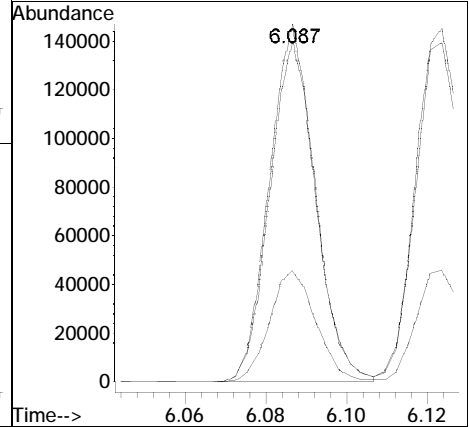
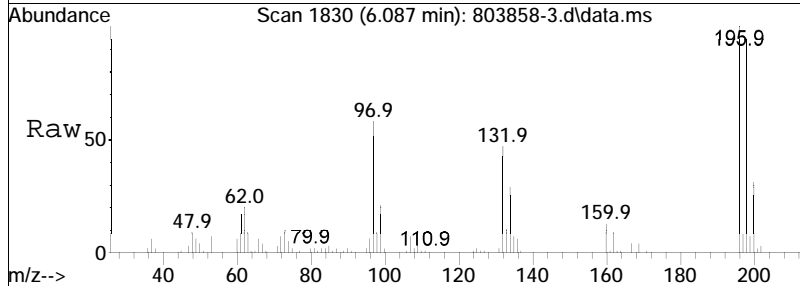
Tgt Ion	Resp	Lower	Upper
237	100		
235	62.6	47.8	71.6
272	11.4	10.4	15.6

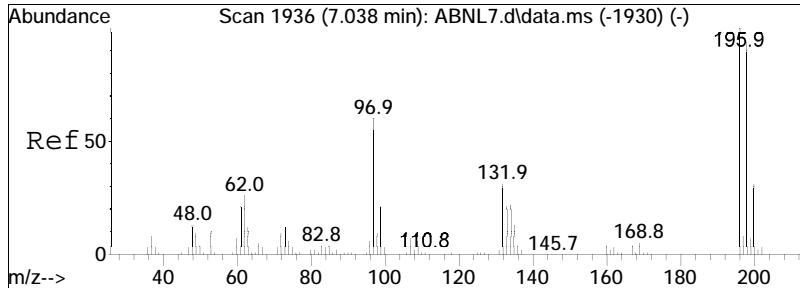




#44
 2,4,6-Trichlorophenol
 Concen: 31.75 ug/ml
 RT: 6.087 min Scan# 1830
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

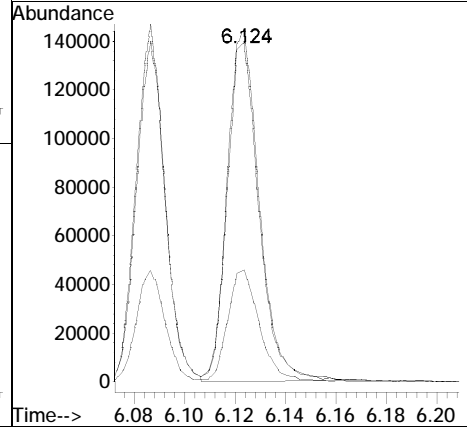
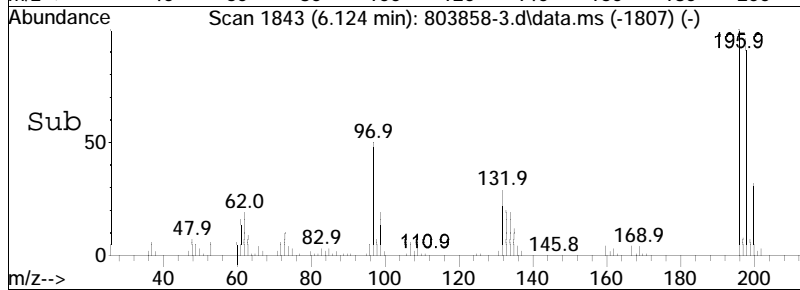
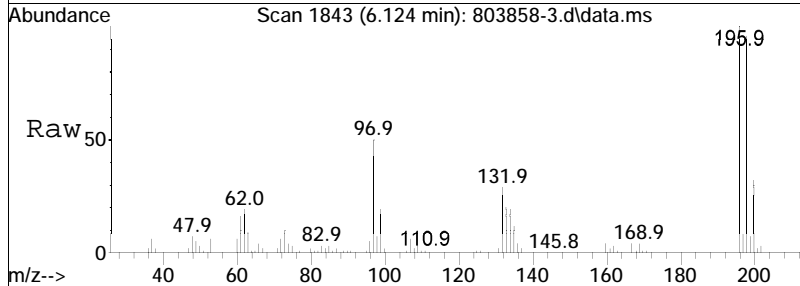
Tgt Ion	Resp	Lower	Upper
196	115803		
196	100		
198	95.3	81.5	122.3
200	31.5	26.2	39.2

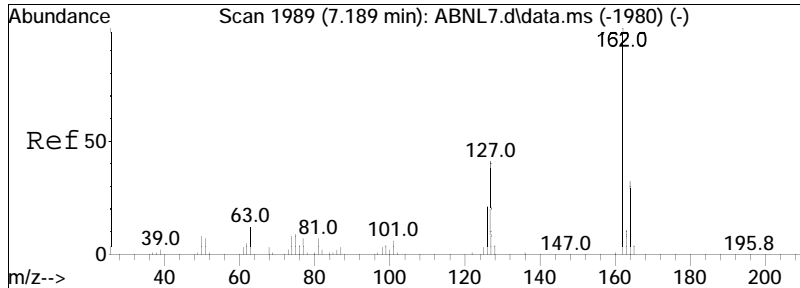




#45
 2,4,5-Trichlorophenol
 Concen: 30.91 ug/ml
 RT: 6.124 min Scan# 1843
 Delta R.T. 0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

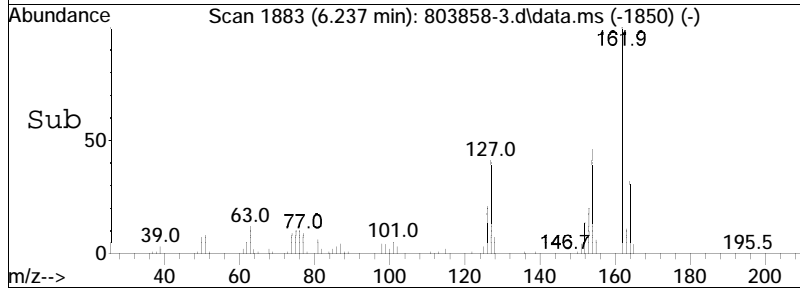
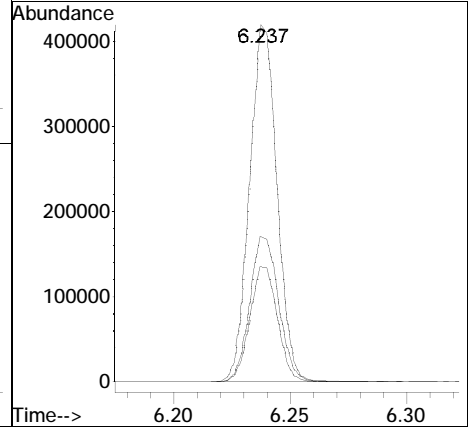
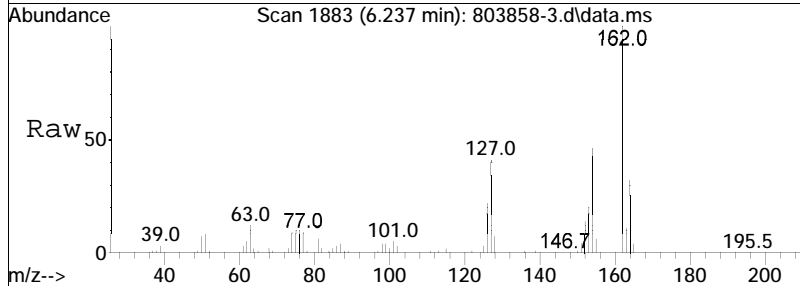
Tgt Ion	Resp	Lower	Upper
196	100		
200	31.8	25.5	38.3
198	96.3	79.2	118.8

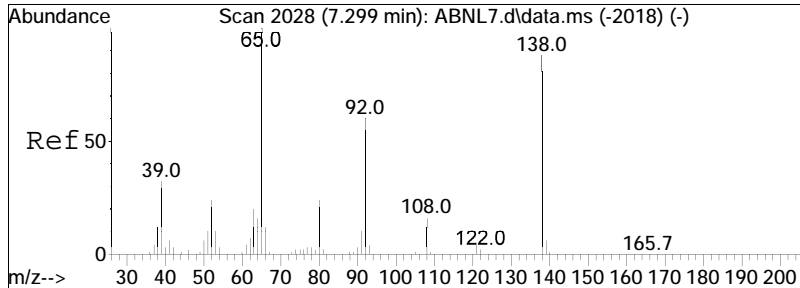




#47
 2-Chloronaphthalene
 Concen: 27.05 ug/ml
 RT: 6.237 min Scan# 1883
 Delta R.T. -0.006 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

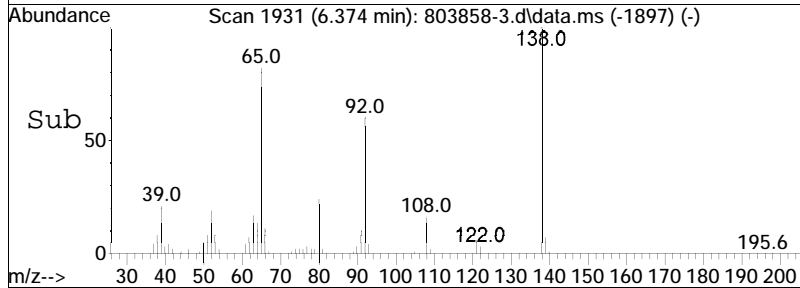
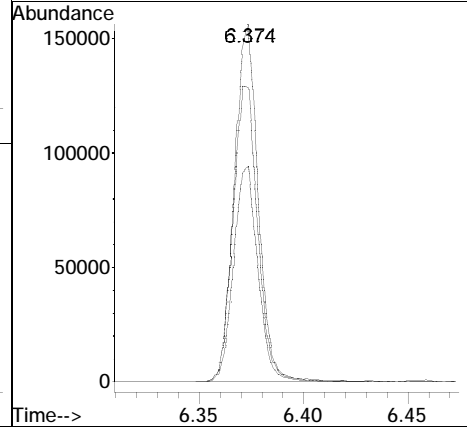
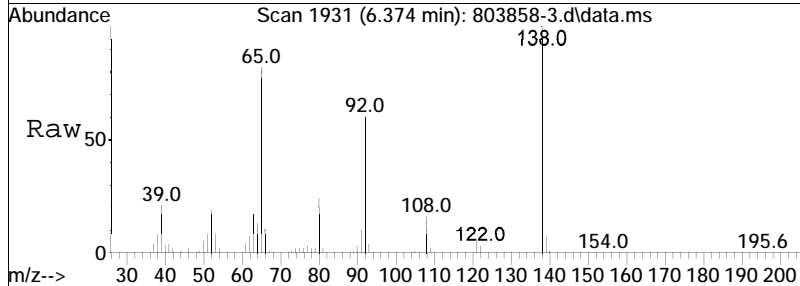
Tgt Ion	Ratio	Lower	Upper
162	100		
127	42.8	33.6	50.4
164	32.5	25.8	38.8

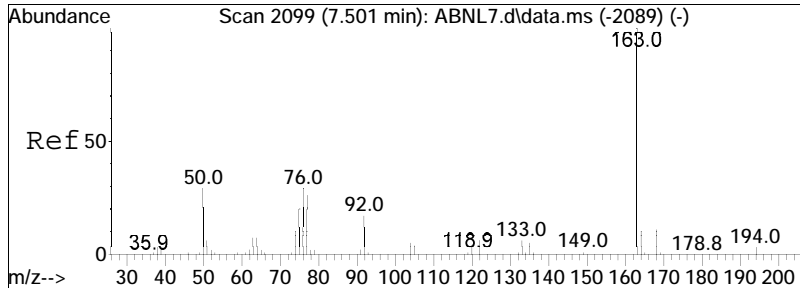




#48
 2-Nitroaniline
 Concen: 31.35 ug/ml
 RT: 6.374 min Scan# 1931
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

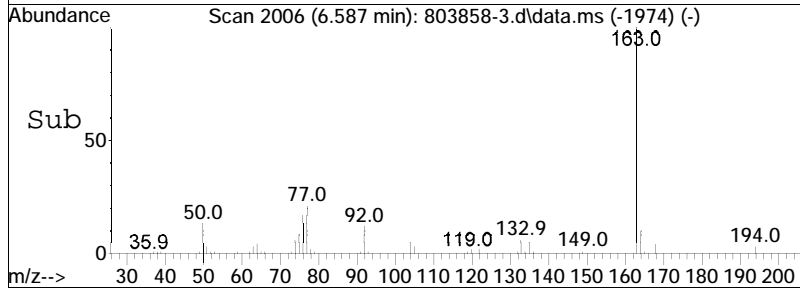
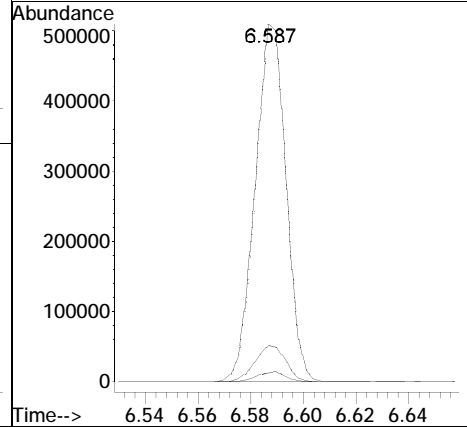
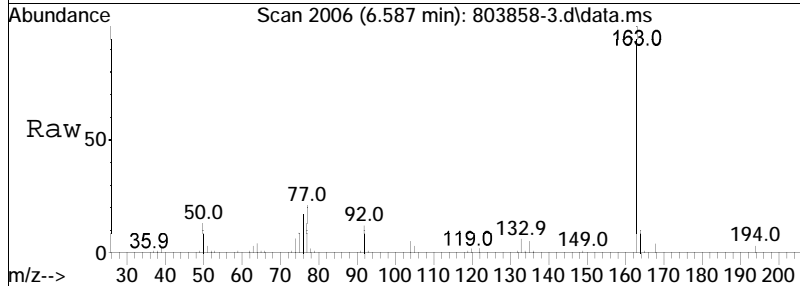
Tgt Ion	Ratio	Lower	Upper
138	100		
92	61.4	54.2	81.2
65	85.4	82.8	124.2

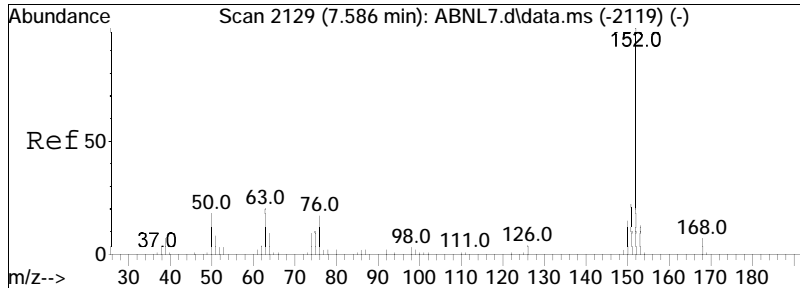




#51
 Dimethyl phthalate
 Concen: 28.35 ug/ml
 RT: 6.587 min Scan# 2006
 Delta R.T. -0.009 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

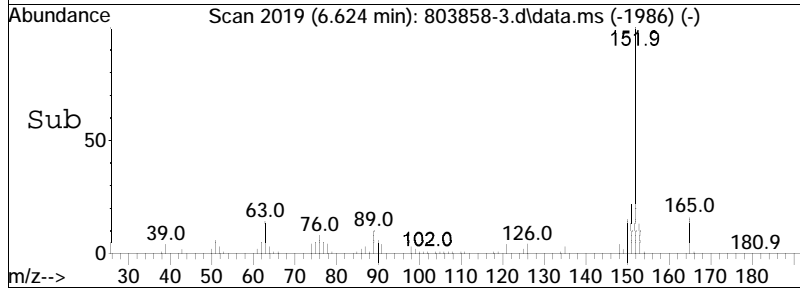
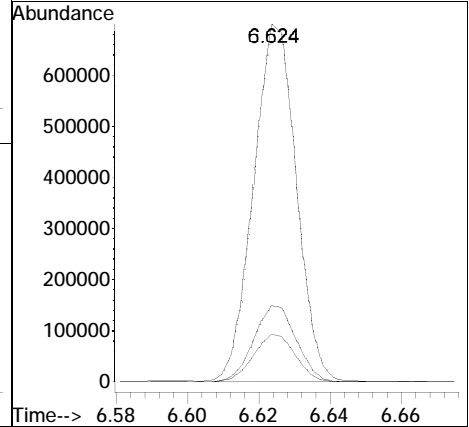
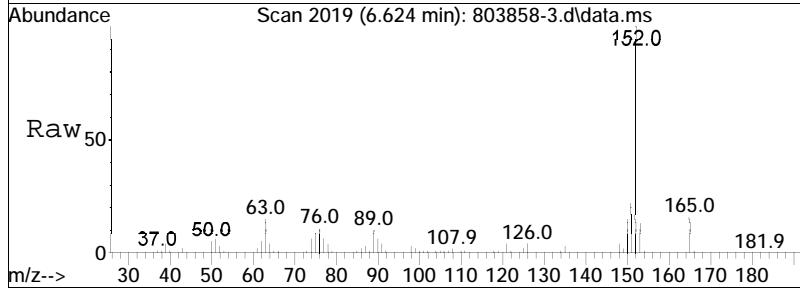
Tgt Ion	163	194	164	Resp	Lower	Upper
Ion Ratio	100	2.7	10.3	410708	2.6	12.4

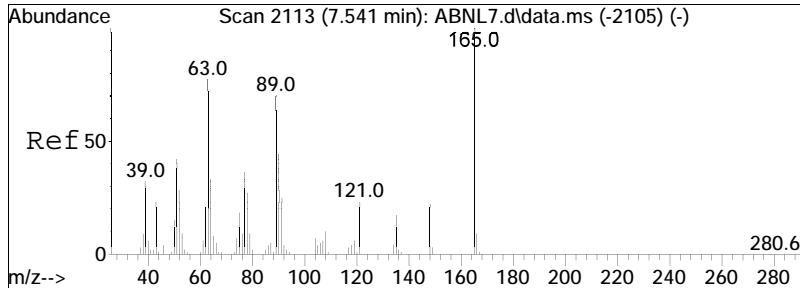




#52
 Acenaphthylene
 Concen: 29.90 ug/ml
 RT: 6.624 min Scan# 2019
 Delta R.T. -0.006 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

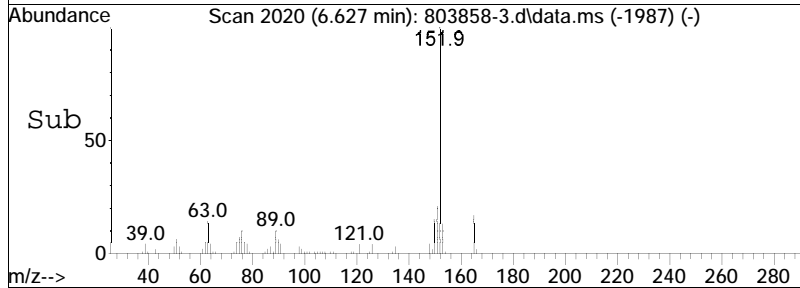
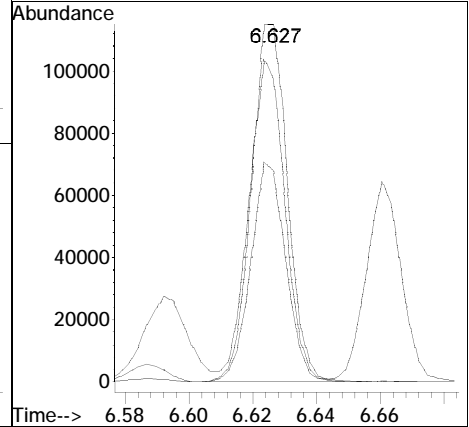
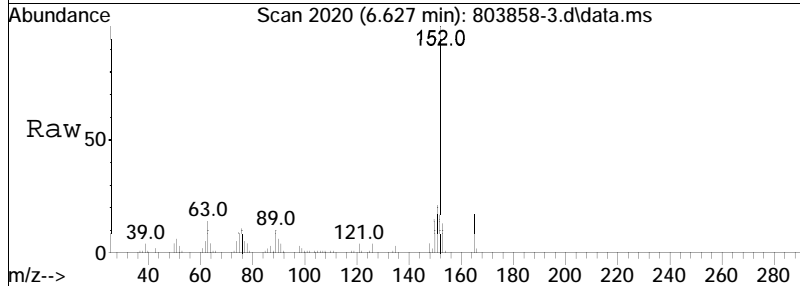
Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.4	24.6
153	13.2	11.0	16.6

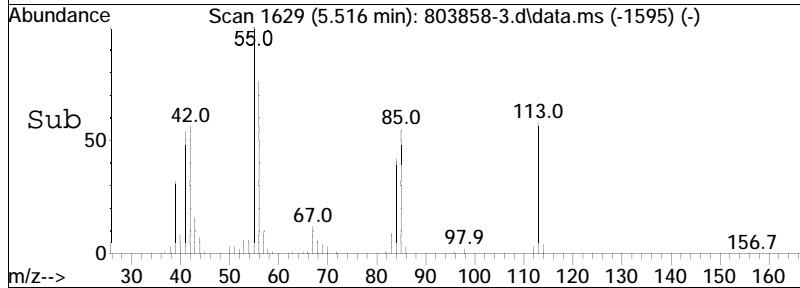
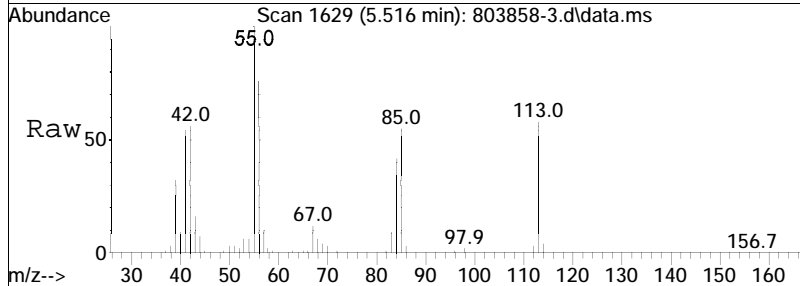
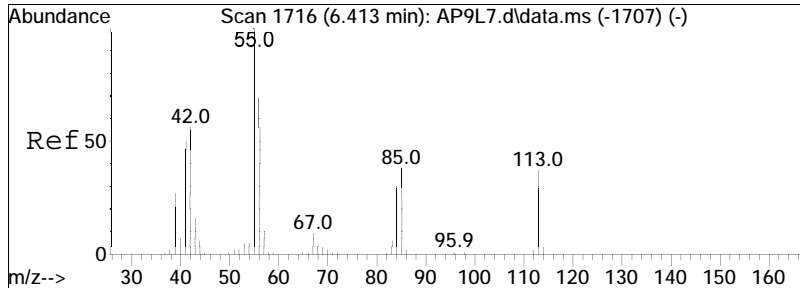




#53
 2,6-Dinitrotoluene
 Concen: 30.28 ug/ml
 RT: 6.627 min Scan# 2020
 Delta R.T. -0.006 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

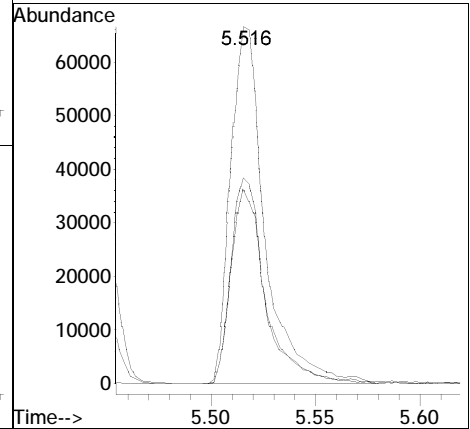
Tgt Ion	Ratio	Lower	Upper
165	100		
89	59.8	50.4	75.6
63	89.7	56.9	85.3#

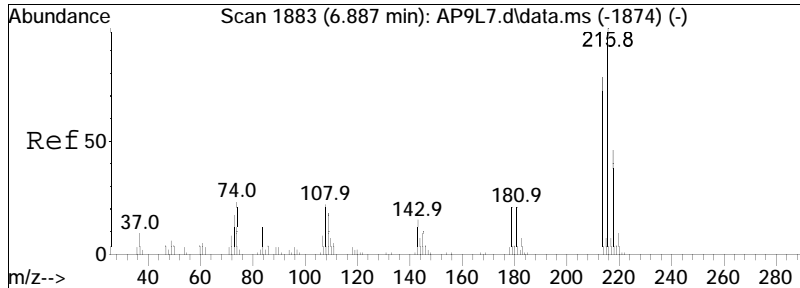




#60
 Caprolactam
 Concen: 29.80 ug/ml
 RT: 5.516 min Scan# 1629
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

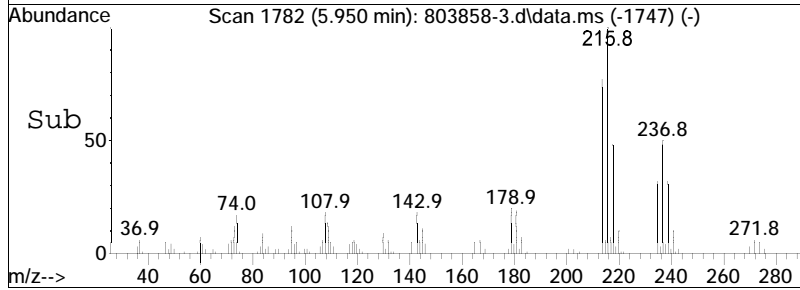
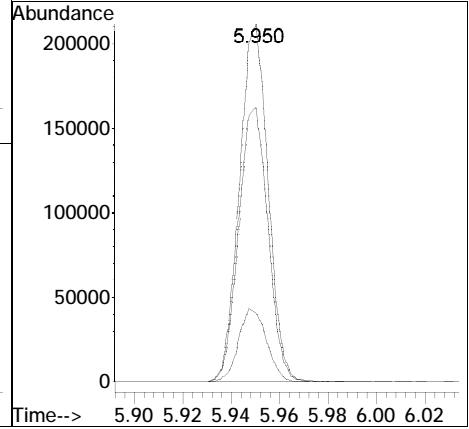
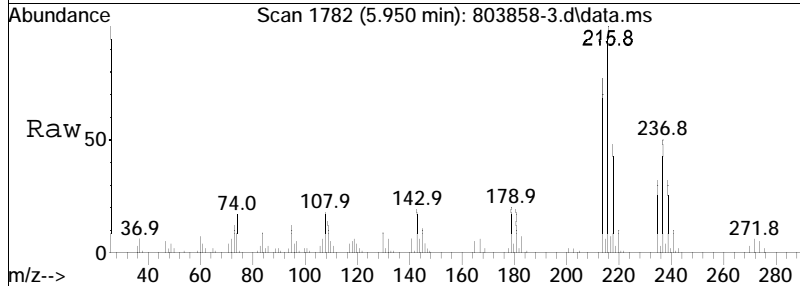
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
55	100		
85	55.1	32.6	48.8#
113	57.8	44.6	66.8

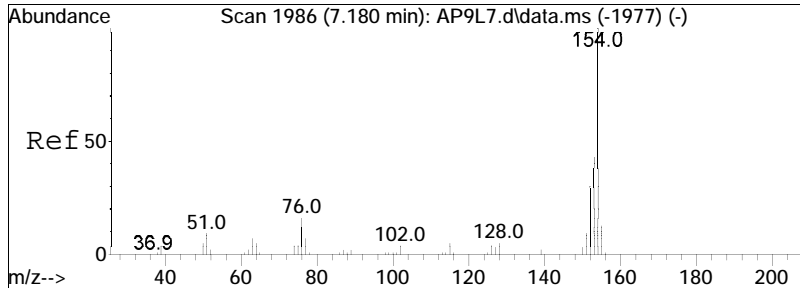




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 29.29 ug/ml
 RT: 5.950 min Scan# 1782
 Delta R.T. 0.000 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

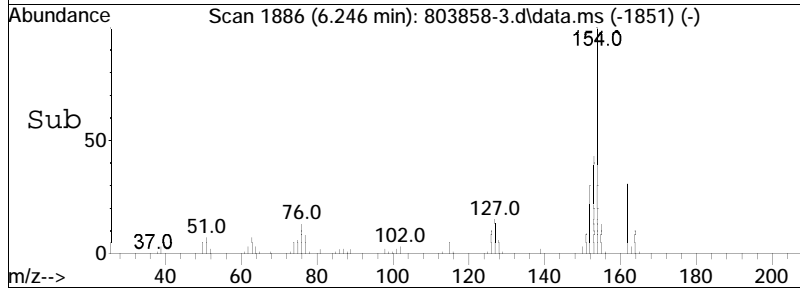
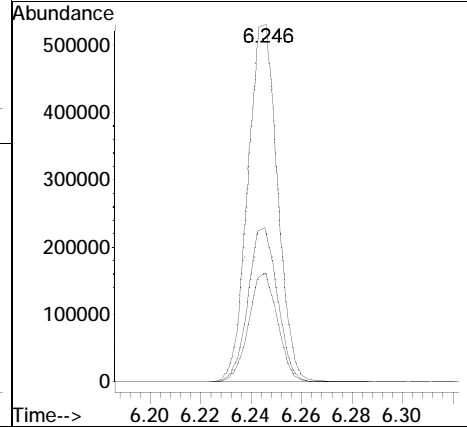
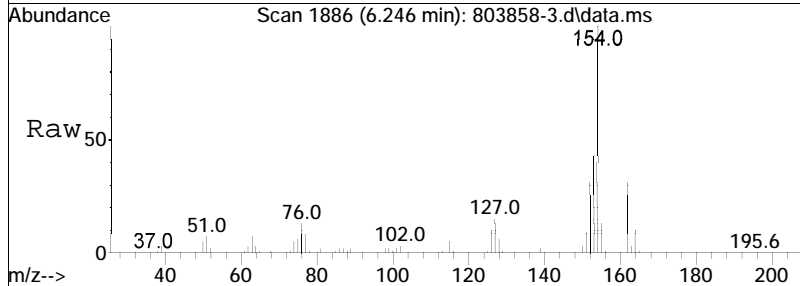
Tgt Ion	Ratio	Lower	Upper
216	100		
214	78.1	63.0	94.6
179	20.2	17.4	26.2

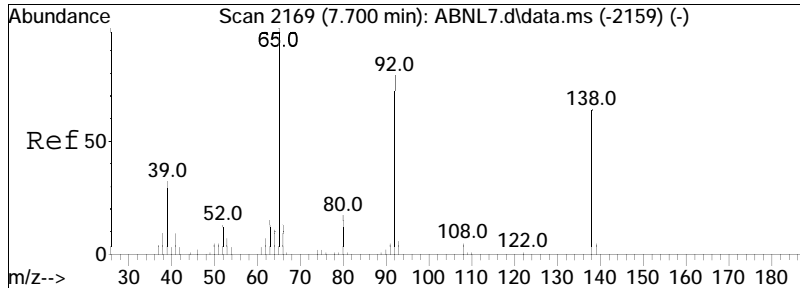




#62
 Biphenyl
 Concen: 26.85 ug/ml
 RT: 6.246 min Scan# 1886
 Delta R.T. 0.000 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

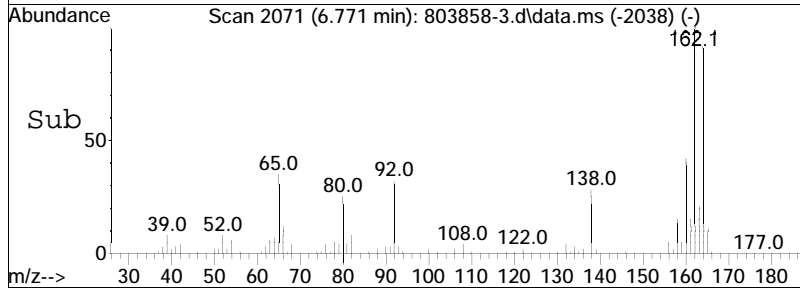
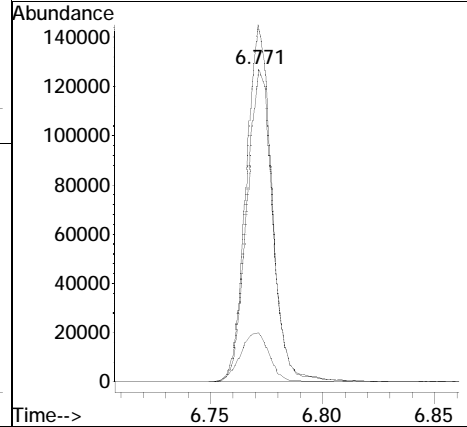
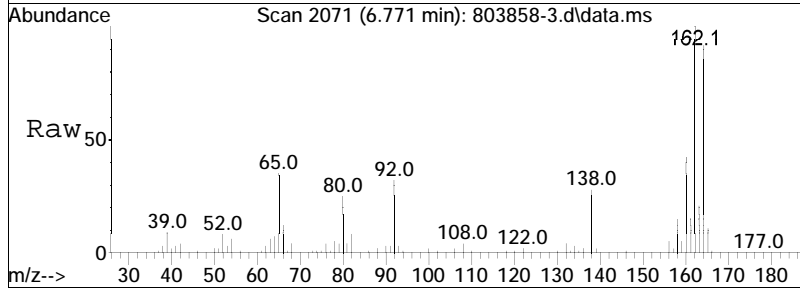
Tgt Ion	Resp	Lower	Upper
154	100		
153	42.8	33.5	50.3
152	29.9	22.6	34.0

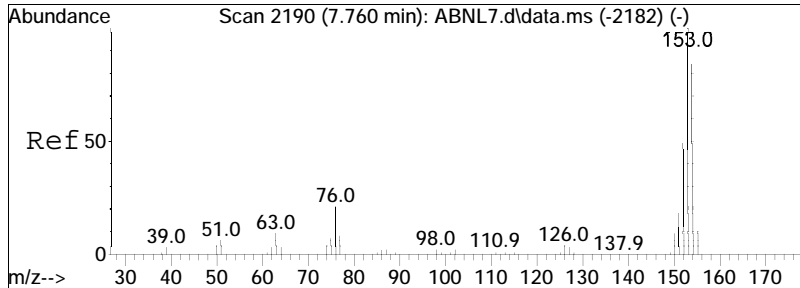




#64
 3-Nitroaniline
 Concen: 26.34 ug/ml
 RT: 6.771 min Scan# 2071
 Delta R.T. -0.006 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

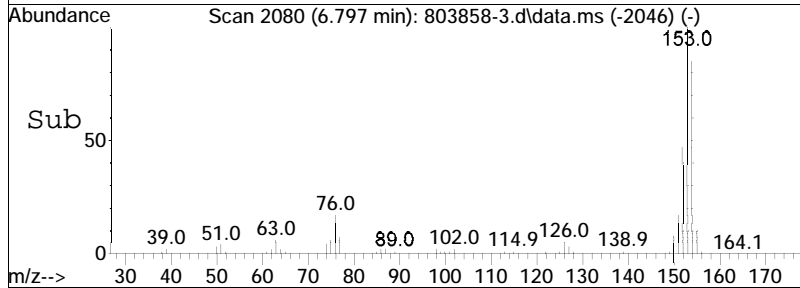
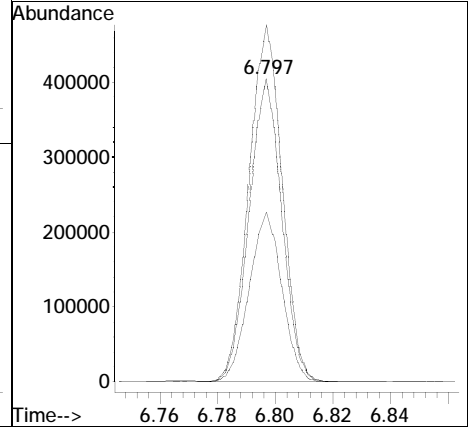
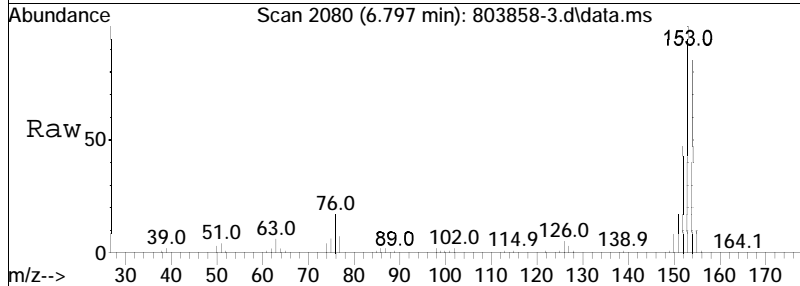
Tgt Ion	Resp	Lower	Upper
138	101574		
92	112.7	95.4	143.2
108	17.8	8.6	12.8#

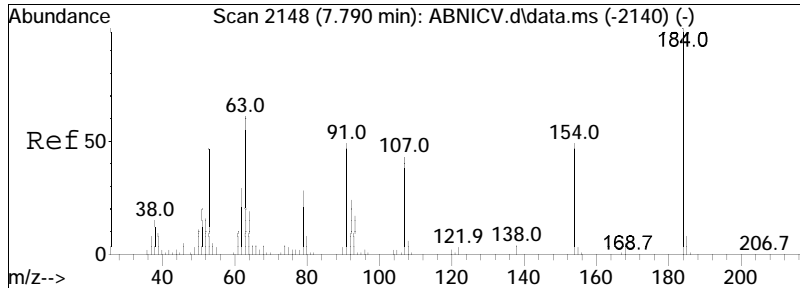




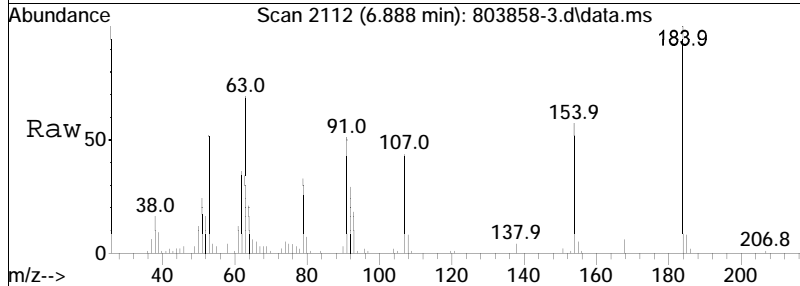
#65
 Acenaphthene
 Concen: 25.05 ug/ml
 RT: 6.797 min Scan# 2080
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

Tgt Ion	Resp	Lower	Upper
154	100		
153	119.8	91.3	136.9
152	56.2	41.0	61.4

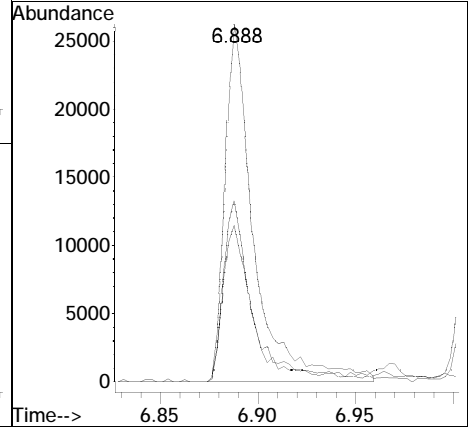
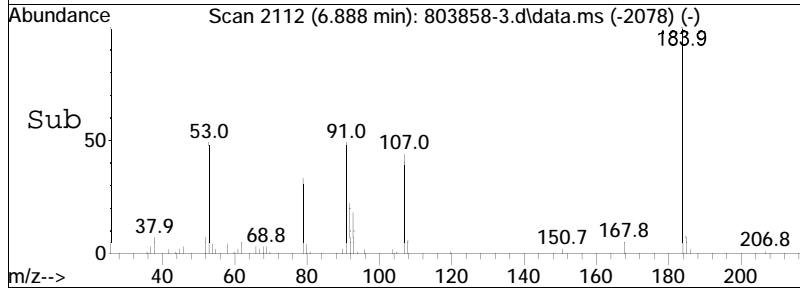


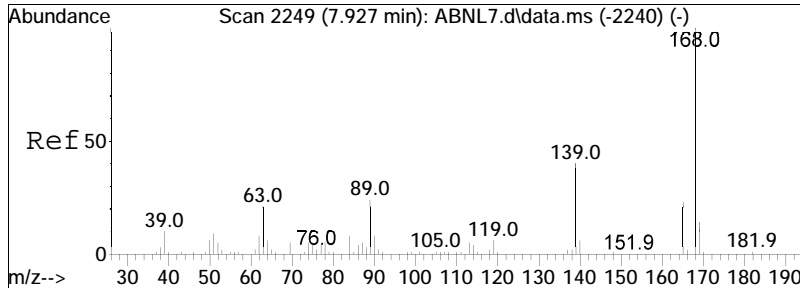


#66
 2,4-Dinitrophenol
 Concen: 18.44 ug/ml
 RT: 6.888 min Scan# 2112
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am



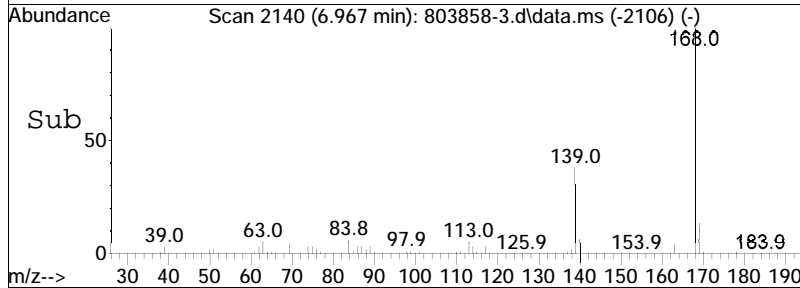
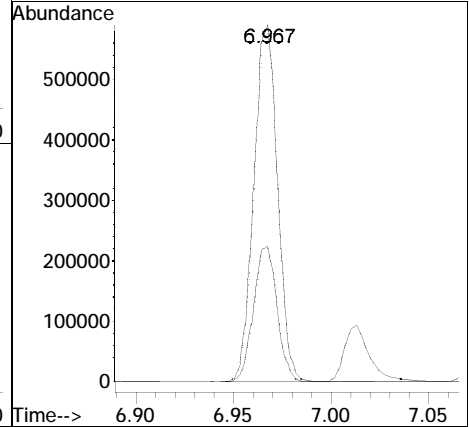
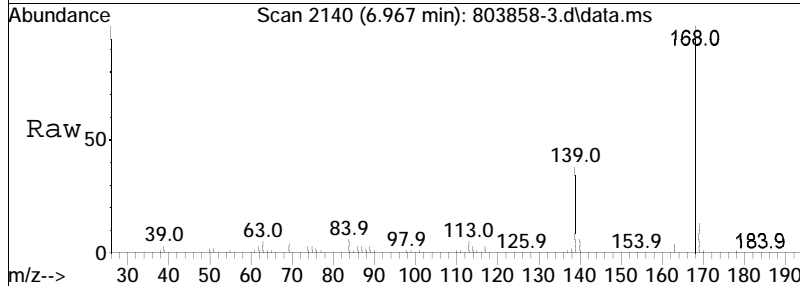
Tgt Ion	Resp	Lower	Upper
184	100		
107	43.8	41.8	62.6
91	50.5	46.1	69.1

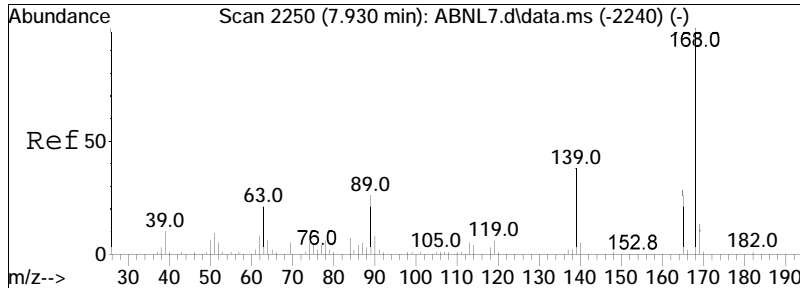




#67
 Dibenzofuran
 Concen: 25.01 ug/ml
 RT: 6.967 min Scan# 2140
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

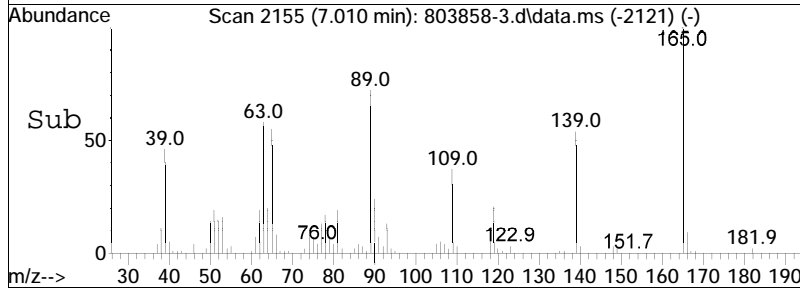
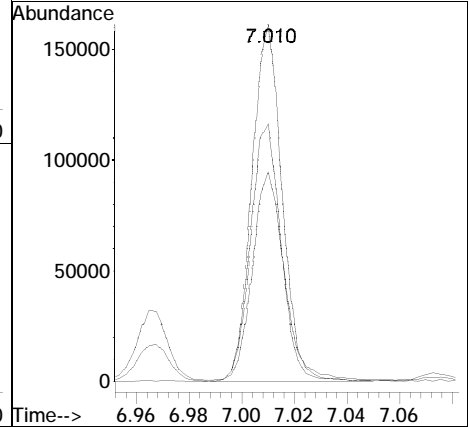
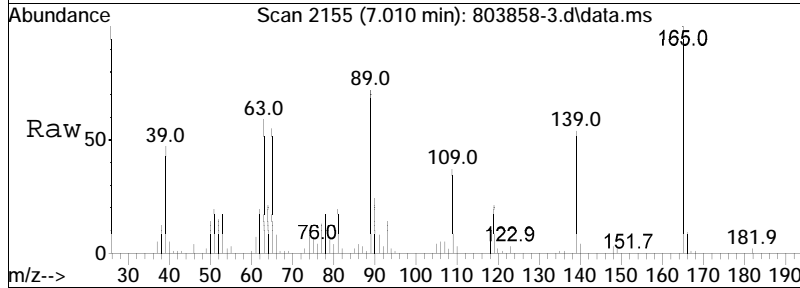
Tgt Ion	Resp	Lower	Upper
168	492647		
168	100		
139	37.8	33.2	49.8

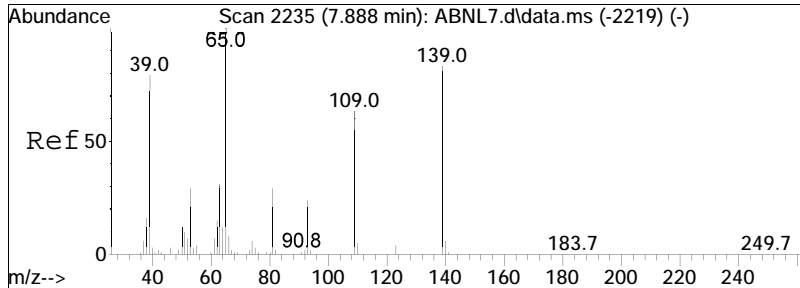




#68
 2,4-Dinitrotoluene
 Concen: 30.38 ug/ml
 RT: 7.010 min Scan# 2155
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

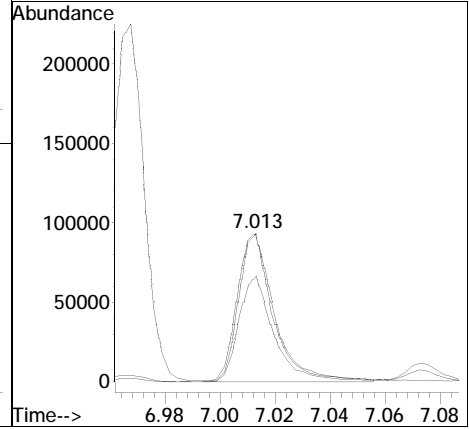
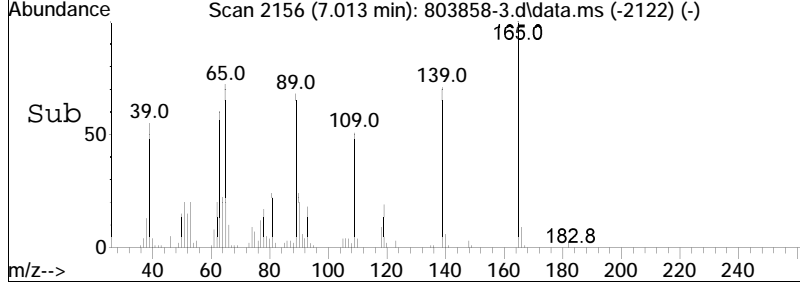
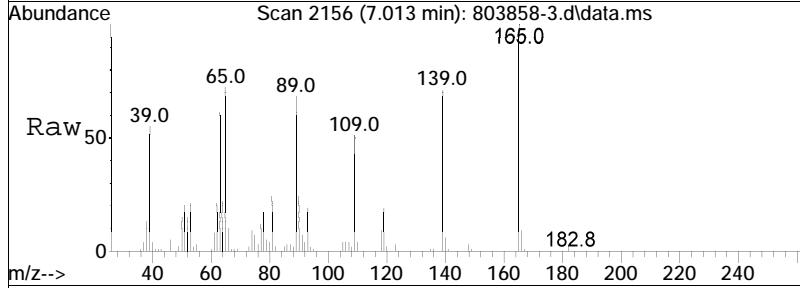
Tgt Ion	Ratio	Lower	Upper
165	100		
89	73.0	75.7	113.5#
63	62.1	62.6	94.0#

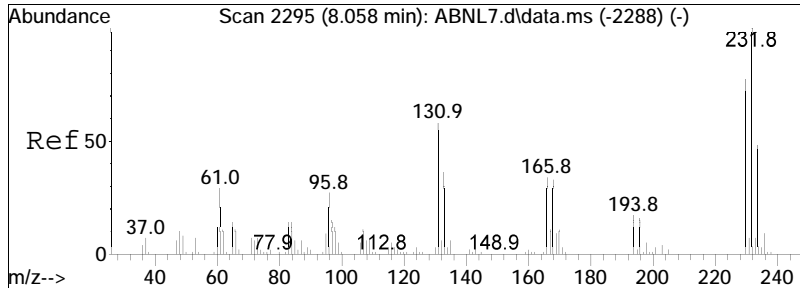




#69
 4-Nitrophenol
 Concen: 33.82 ug/ml
 RT: 7.013 min Scan# 2156
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

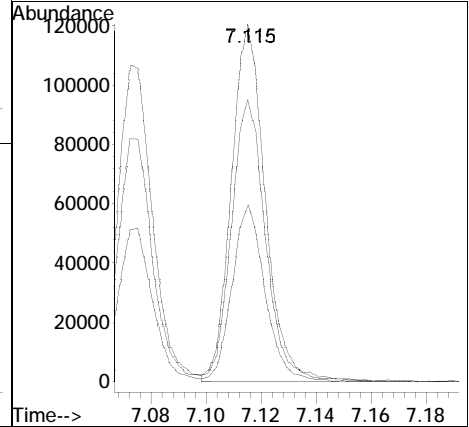
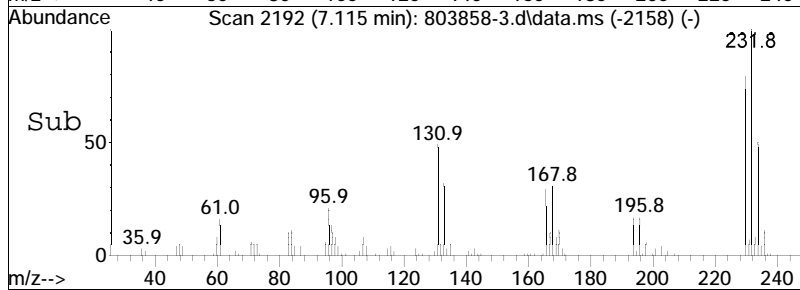
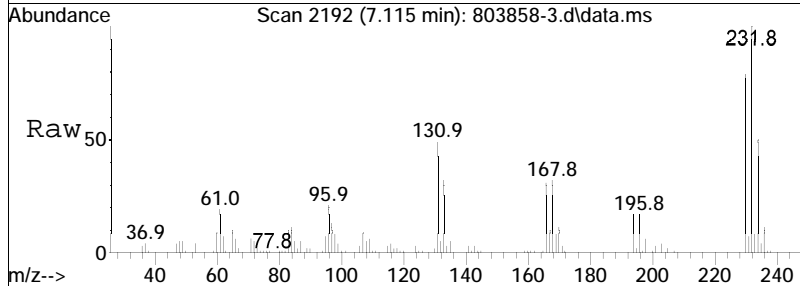
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
65	100		
109	69.8	55.4	83.2
139	98.1	72.9	109.3

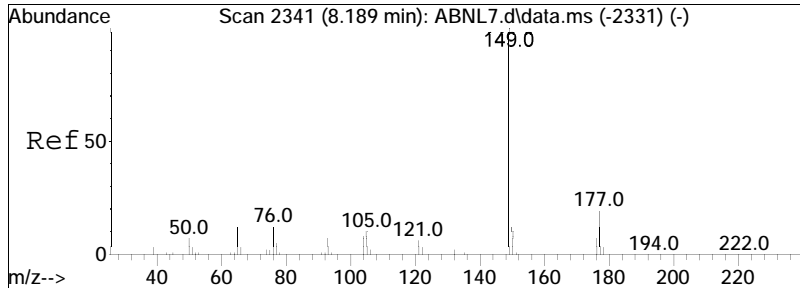




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 28.82 ug/ml
 RT: 7.115 min Scan# 2192
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

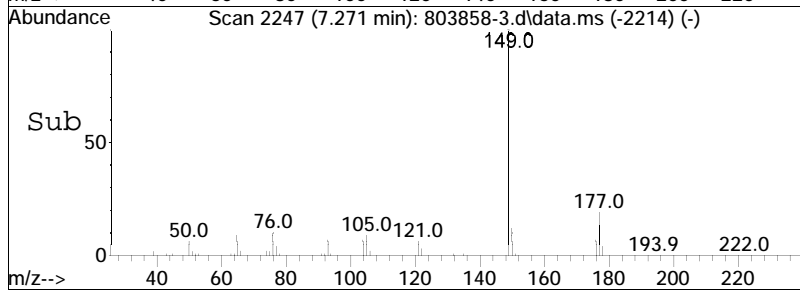
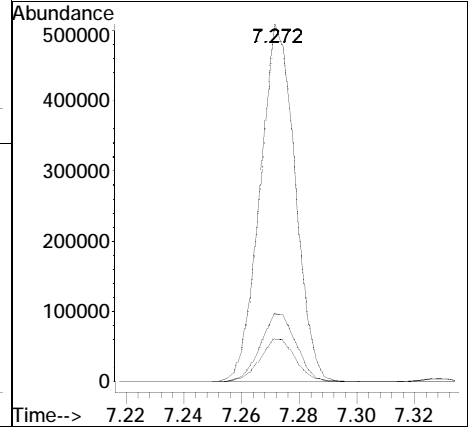
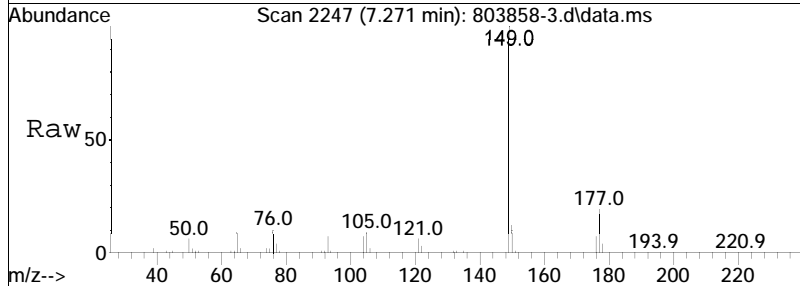
Tgt Ion	Resp	Lower	Upper
232	102189		
232	100		
230	80.7	63.7	95.5
234	48.8	38.4	57.6

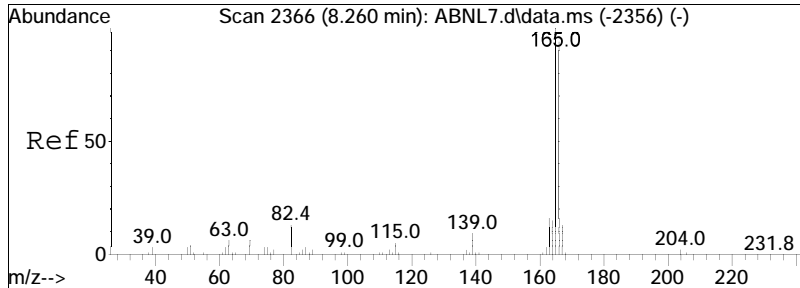




#72
 Diethyl phthalate
 Concen: 27.70 ug/ml
 RT: 7.271 min Scan# 2247
 Delta R.T. -0.006 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

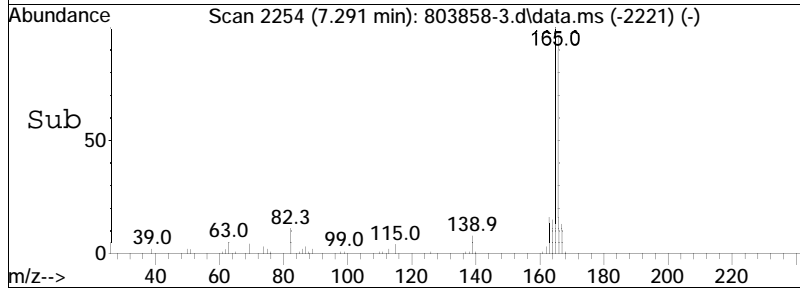
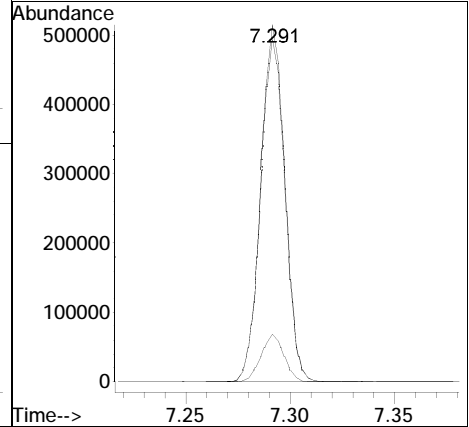
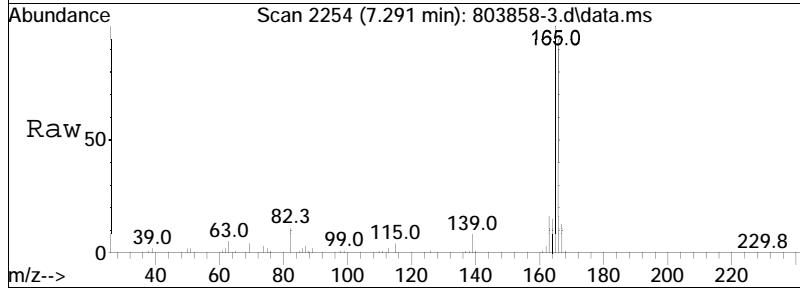
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.5	15.5	23.3
150	12.4	9.5	14.3

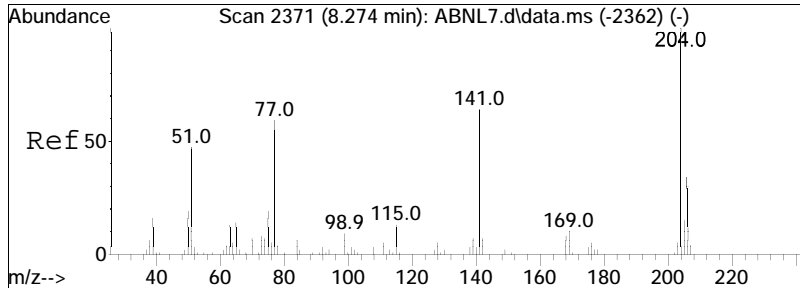




#73
 Fluorene
 Concen: 26.14 ug/ml
 RT: 7.291 min Scan# 2254
 Delta R.T. -0.006 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

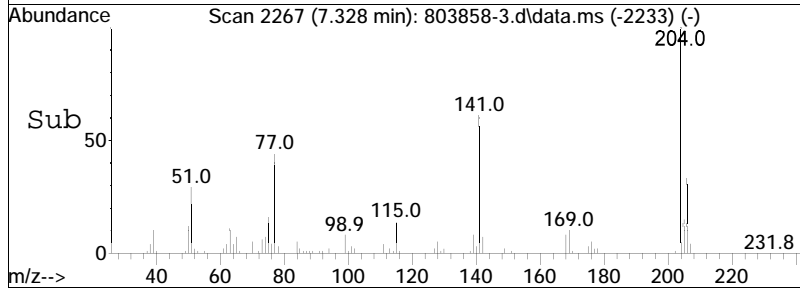
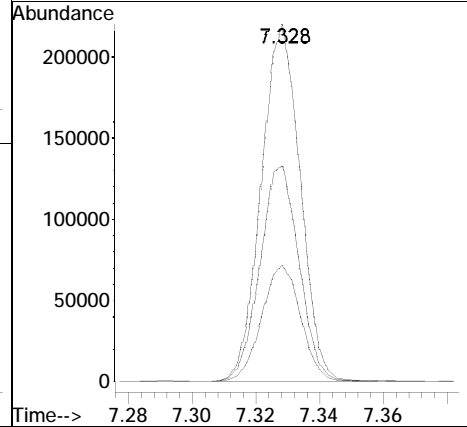
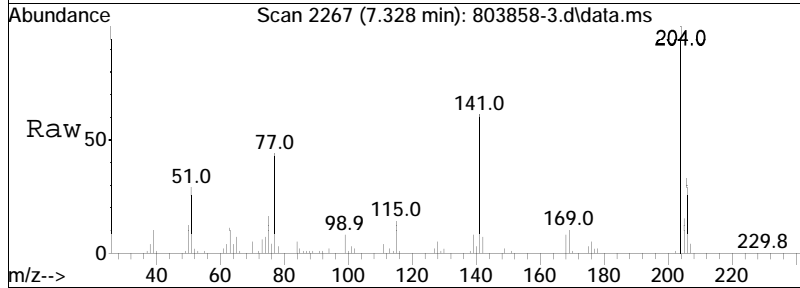
Tgt Ion	Resp	Lower	Upper
166	399377		
166	100		
165	104.1	79.3	118.9
167	13.3	10.6	16.0

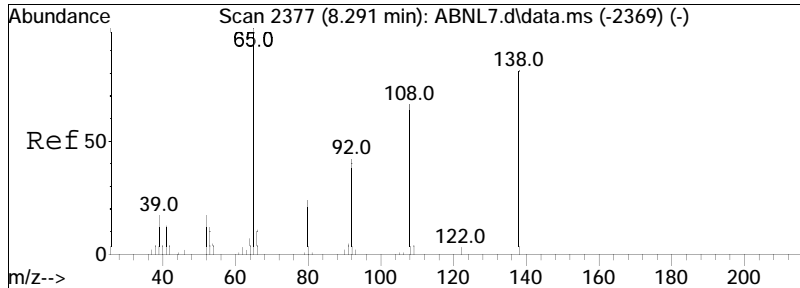




#74
 4-Chlorophenyl phenyl ether
 Concen: 25.65 ug/ml
 RT: 7.328 min Scan# 2267
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

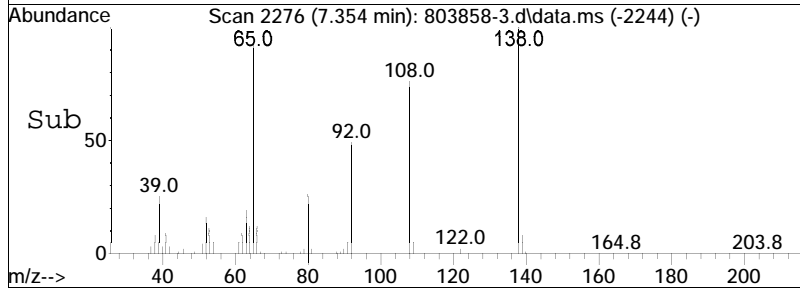
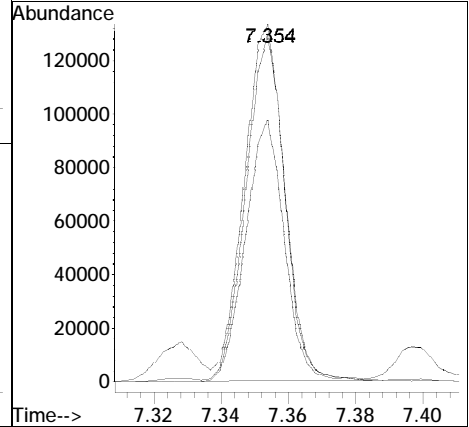
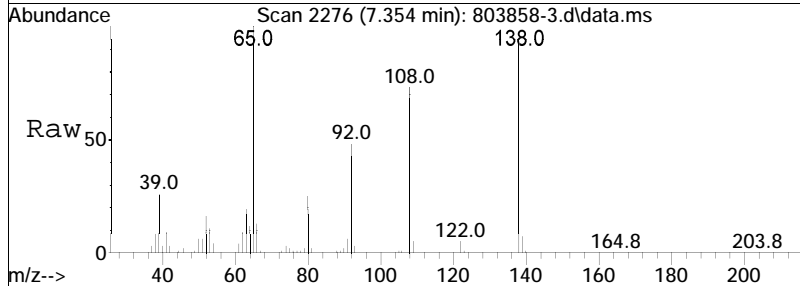
Tgt Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.2	39.4
141	60.9	57.2	85.8

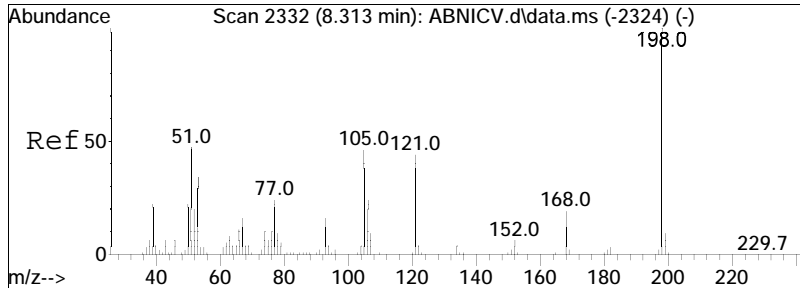




#75
 4-Nitroaniline
 Concen: 26.48 ug/ml
 RT: 7.354 min Scan# 2276
 Delta R.T. -0.009 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

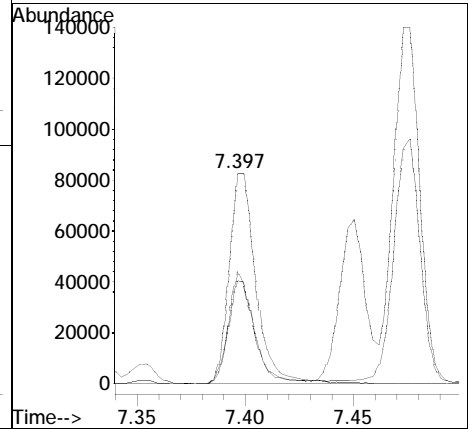
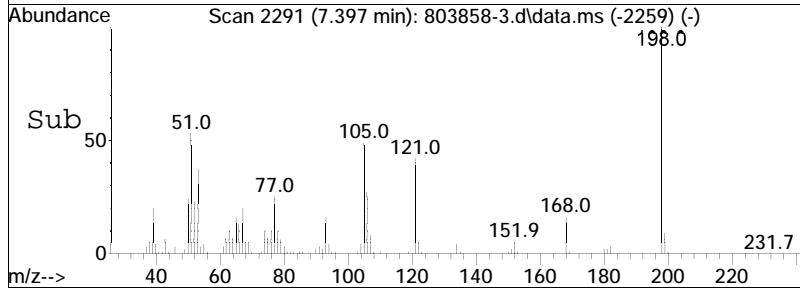
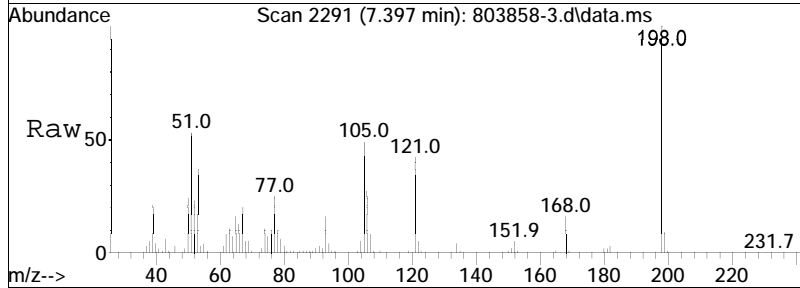
Tgt Ion	Resp	Lower	Upper
138	103588		
138	100		
108	76.0	62.7	94.1
65	105.5	107.8	161.6#

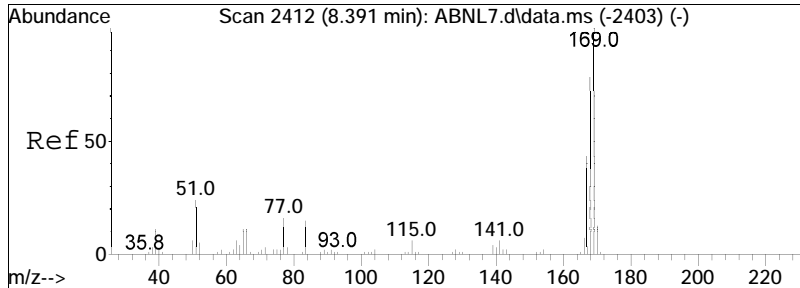




#76
 4,6-Dinitro-o-cresol
 Concen: 33.87 ug/ml
 RT: 7.397 min Scan# 2291
 Delta R.T. -0.009 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

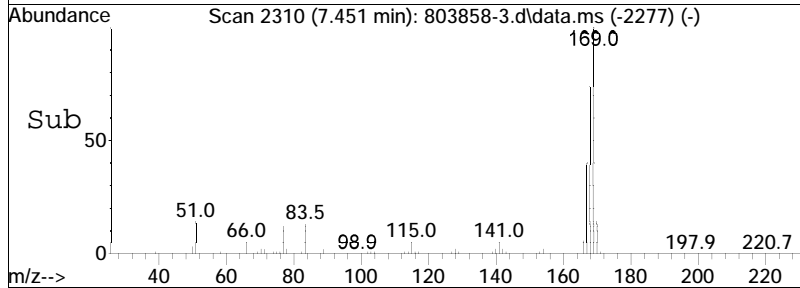
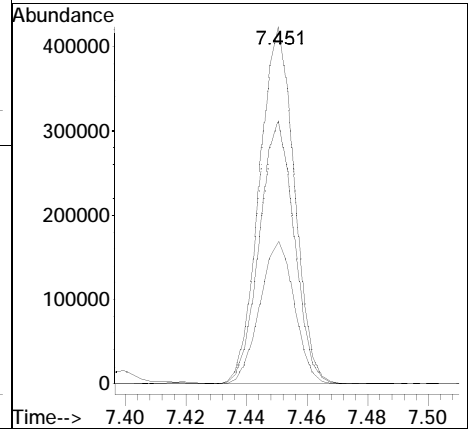
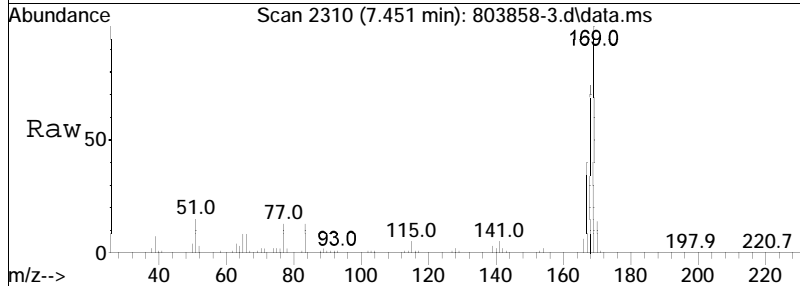
Tgt Ion	Resp	Lower	Upper
198	100		
51	50.4	59.0	88.4#
105	48.0	45.0	67.6

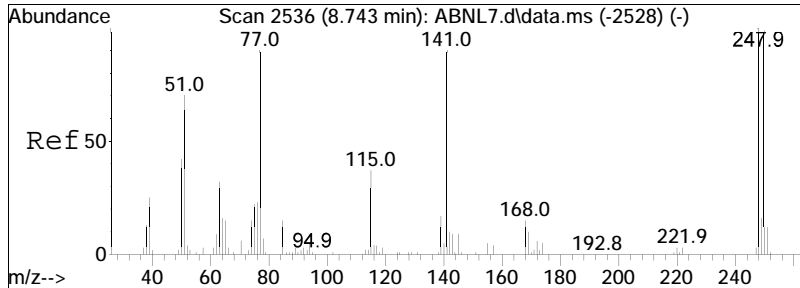




#77
 NDPA/DPA
 Concen: 26.04 ug/ml
 RT: 7.451 min Scan# 2310
 Delta R.T. -0.006 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

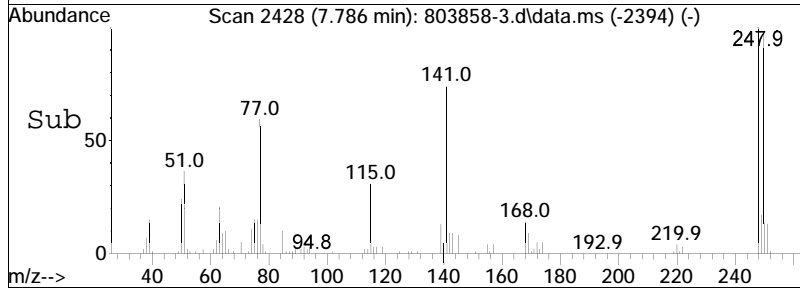
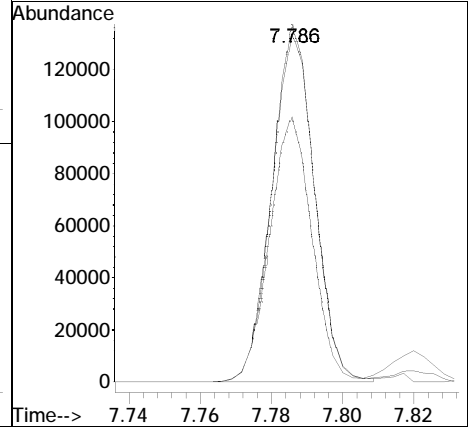
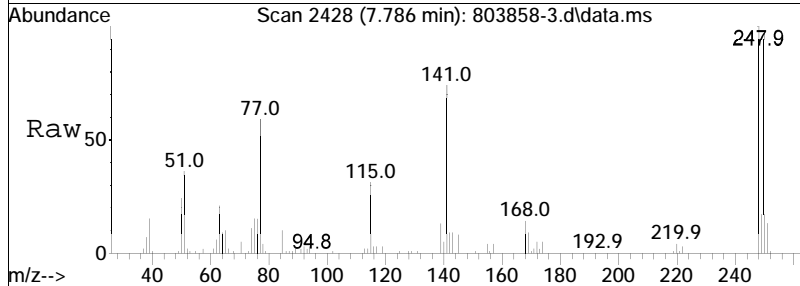
Tgt Ion	Ratio	Lower	Upper
169	100		
168	73.6	55.4	83.0
167	39.9	30.3	45.5

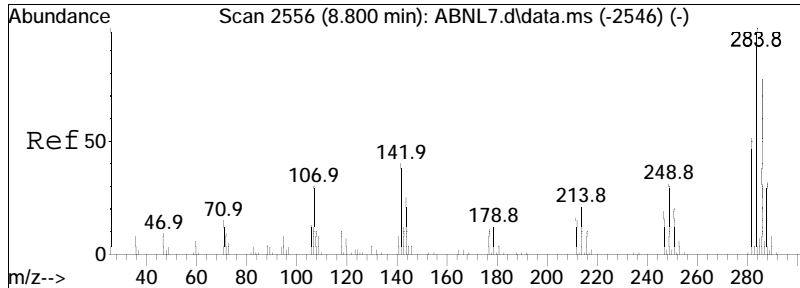




#80
 4-Bromophenyl phenyl ether
 Concen: 26.25 ug/ml
 RT: 7.786 min Scan# 2428
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

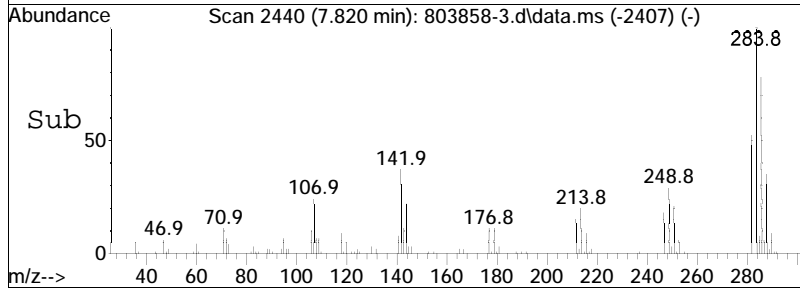
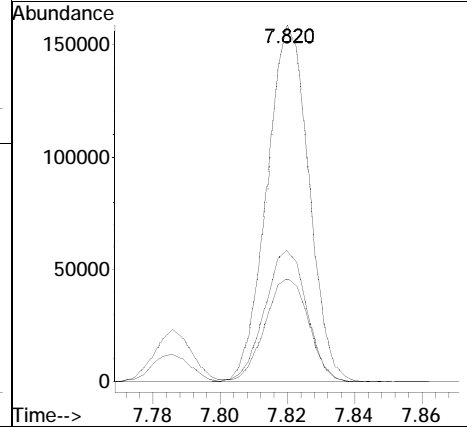
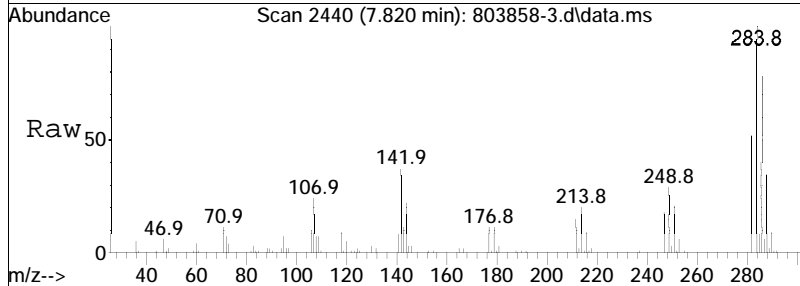
Tgt Ion	Ratio	Lower	Upper
248	100		
141	73.8	76.8	115.2#
250	97.7	79.7	119.5

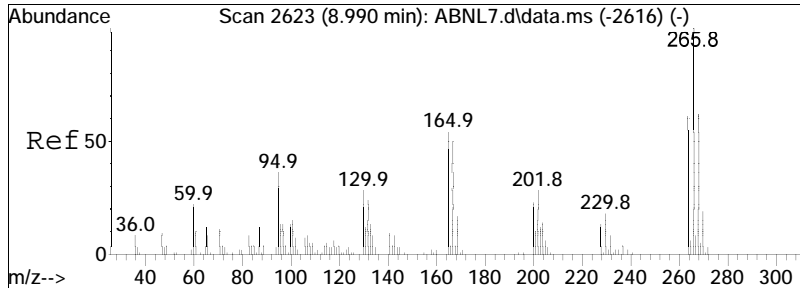




#81
 Hexachlorobenzene
 Concen: 26.19 ug/ml
 RT: 7.820 min Scan# 2440
 Delta R.T. -0.006 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

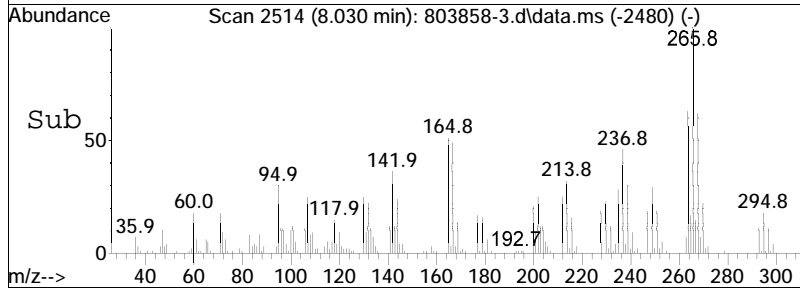
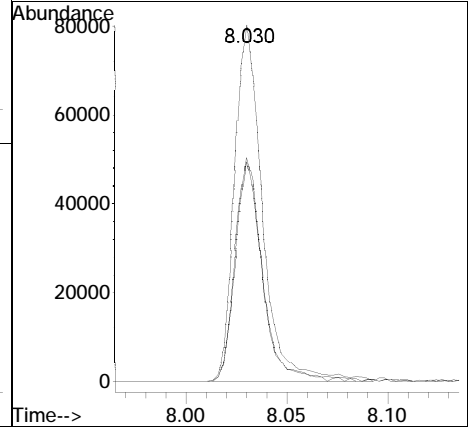
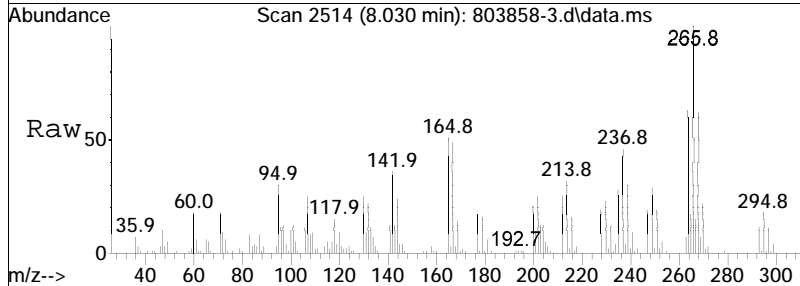
Tgt Ion	Resp	Lower	Upper
284	100		
142	37.2	35.8	53.6
249	30.2	24.7	37.1

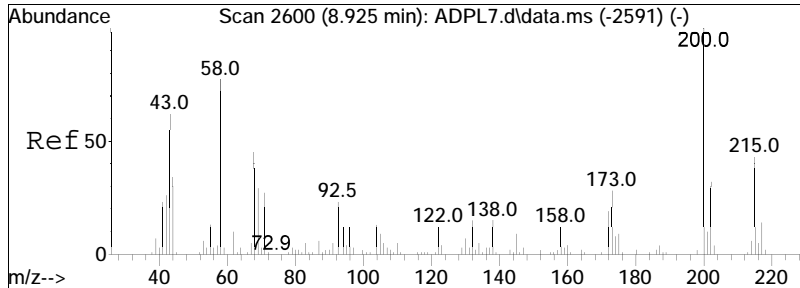




#82
 Pentachlorophenol
 Concen: 24.72 ug/ml
 RT: 8.030 min Scan# 2514
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

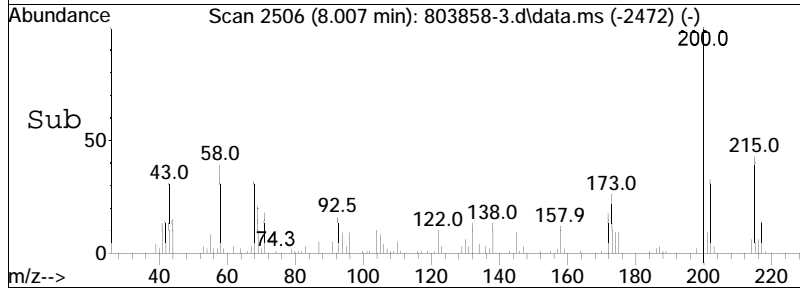
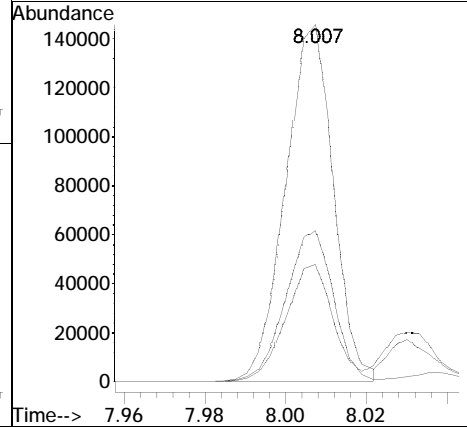
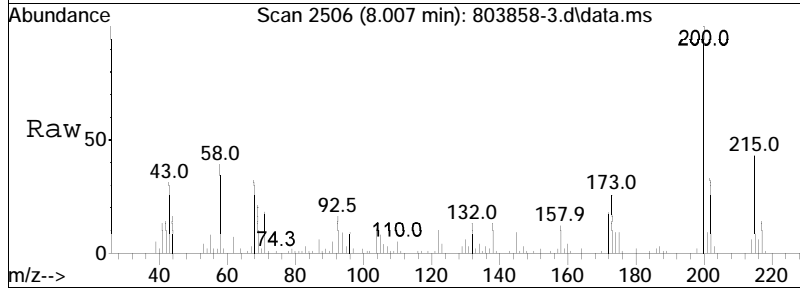
Tgt Ion	Resp	Lower	Upper
266	100		
264	62.6	51.8	77.6
268	58.9	49.8	74.8

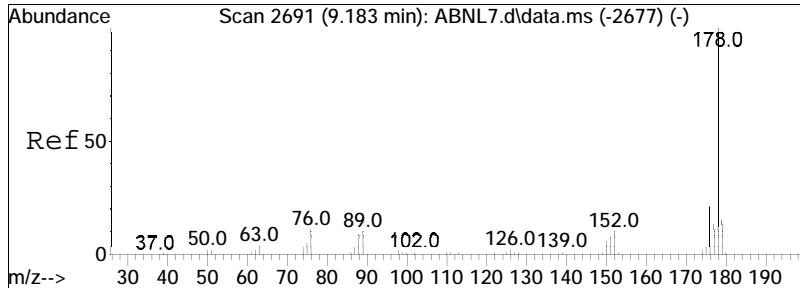




#87
 Atrazine
 Concen: 34.15 ug/ml
 RT: 8.007 min Scan# 2506
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

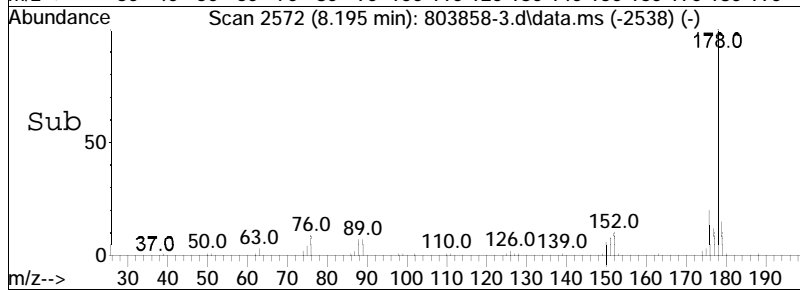
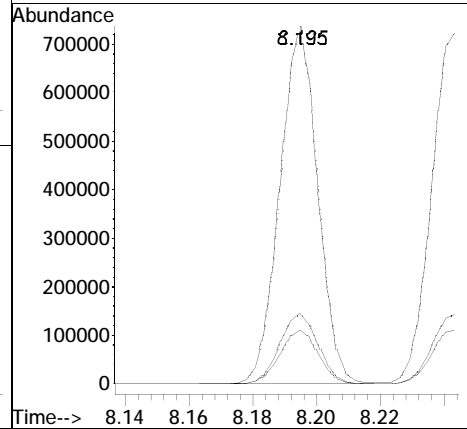
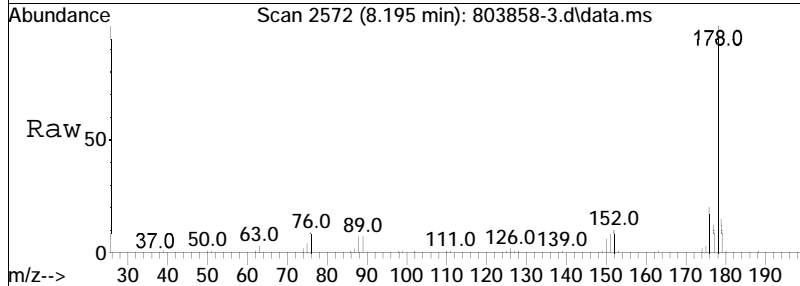
Tgt Ion	Ratio	Lower	Upper
200	100		
202	32.6	24.9	37.3
215	42.5	34.0	51.0

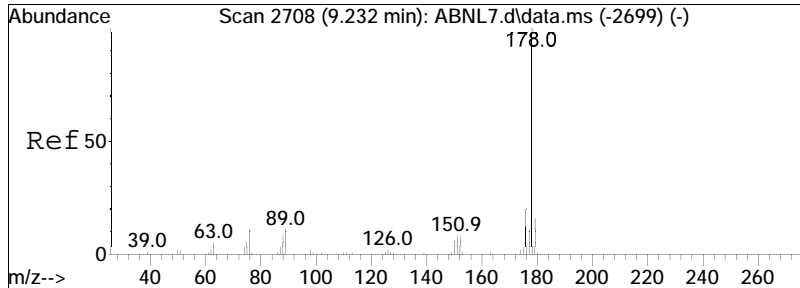




#89
 Phenanthrene
 Concen: 24.11 ug/ml
 RT: 8.195 min Scan# 2572
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

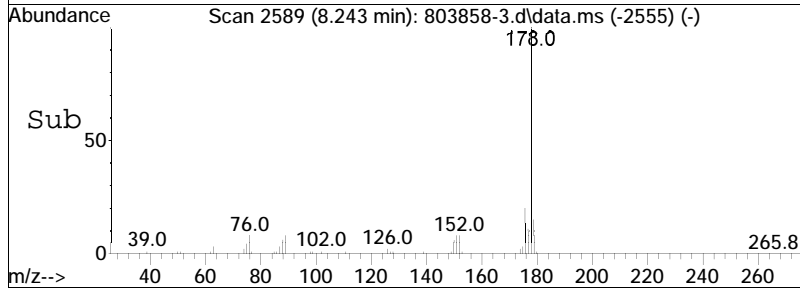
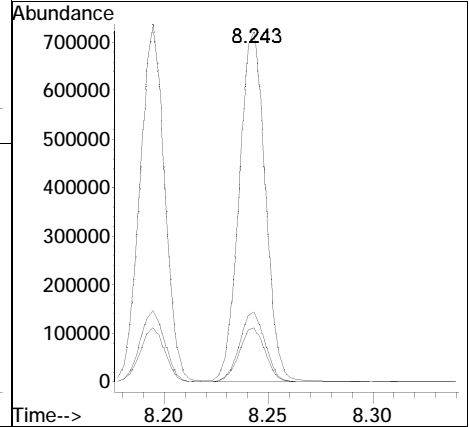
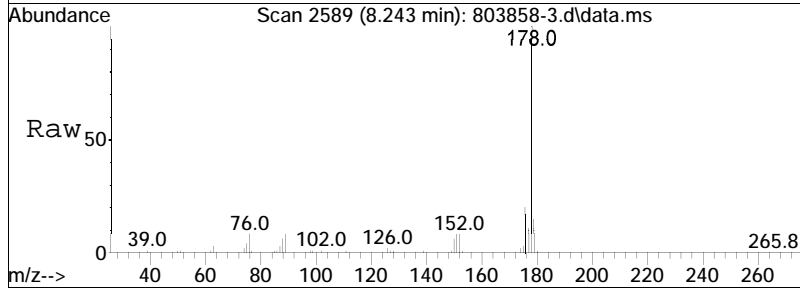
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.3	12.2	18.2
176	19.9	15.4	23.2

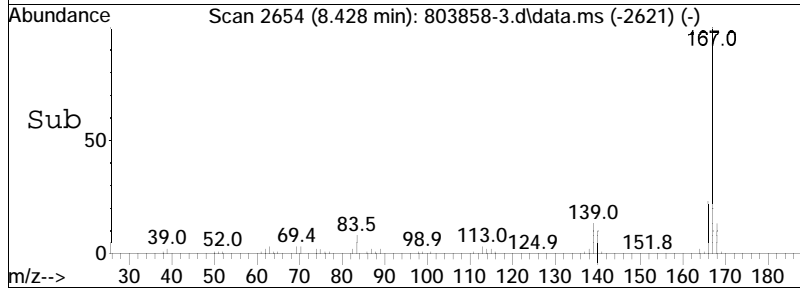
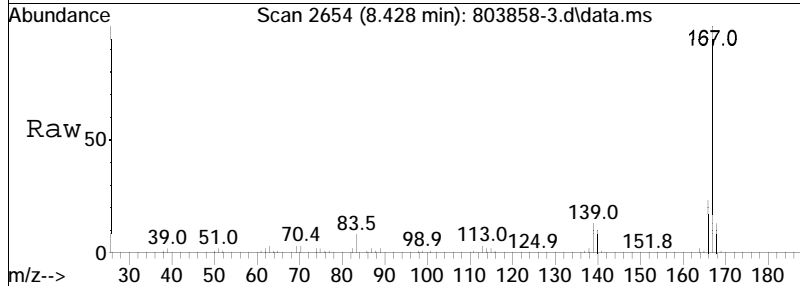
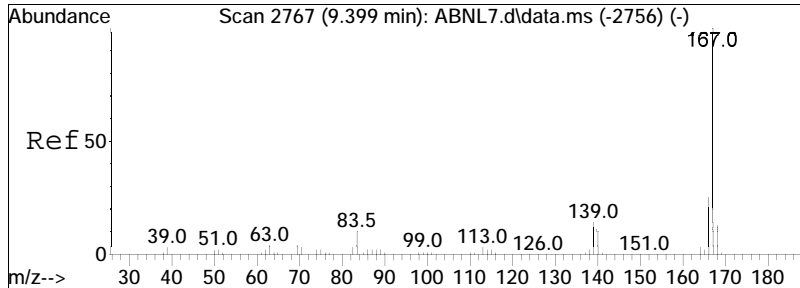




#90
 Anthracene
 Concen: 25.29 ug/ml
 RT: 8.243 min Scan# 2589
 Delta R.T. -0.003 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

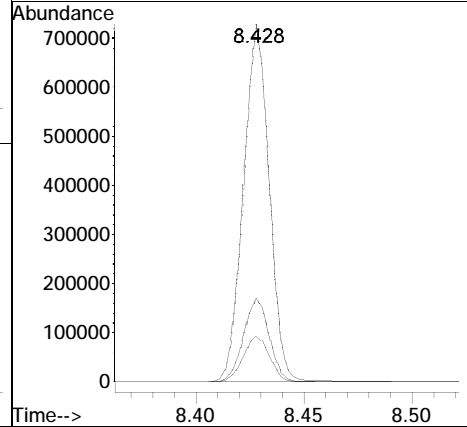
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.3	12.1	18.1
176	19.6	14.8	22.2

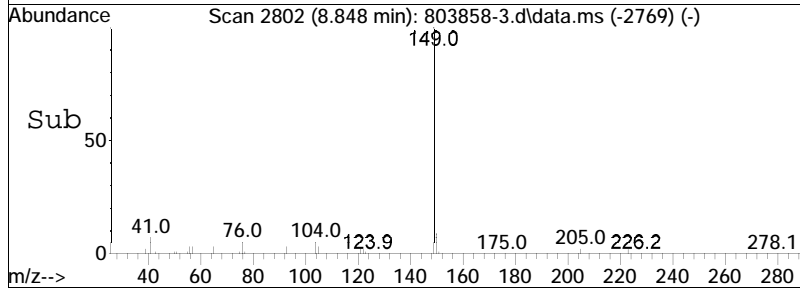
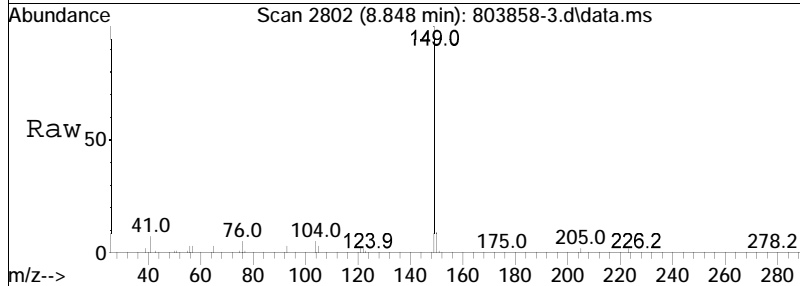
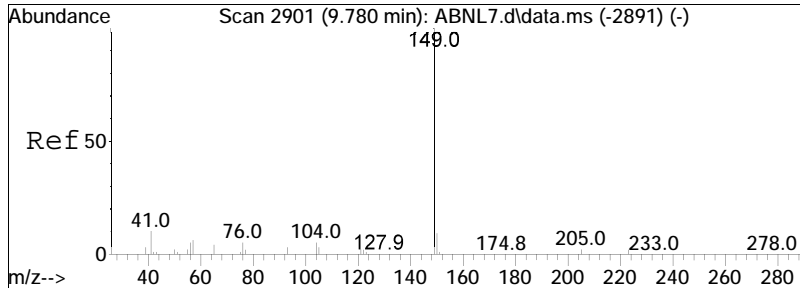




#91
 Carbazole
 Concen: 25.67 ug/ml
 RT: 8.428 min Scan# 2654
 Delta R.T. -0.006 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

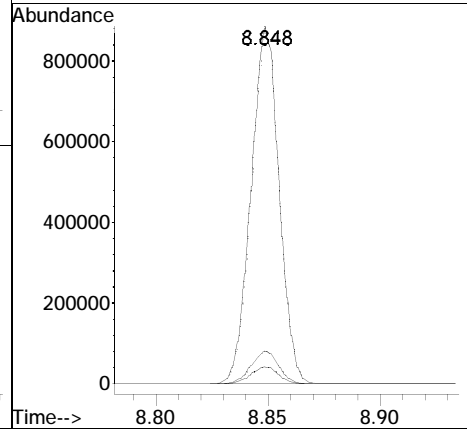
Tgt Ion	Resp	Lower	Upper
167	595901		
167	100		
168	13.2	10.6	15.8
166	23.5	17.7	26.5

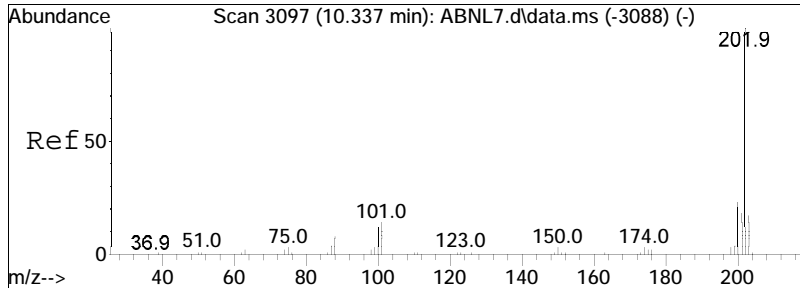




#92
 Di-n-butylphthalate
 Concen: 30.34 ug/ml
 RT: 8.848 min Scan# 2802
 Delta R.T. -0.006 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

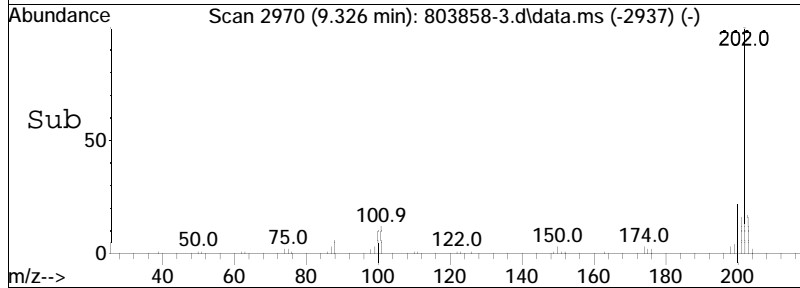
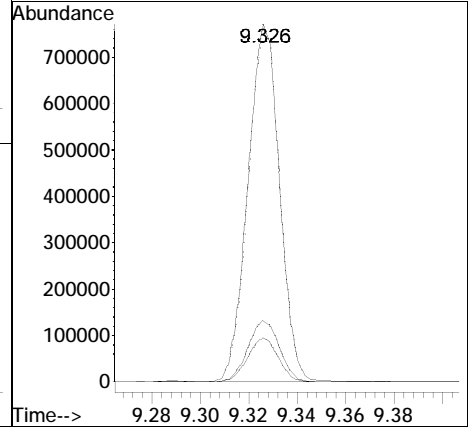
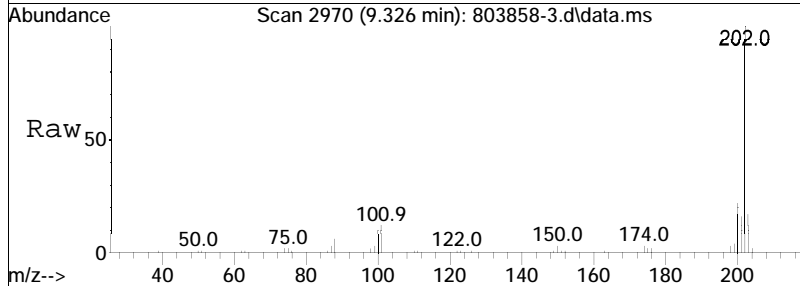
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	4.8	4.2	6.2

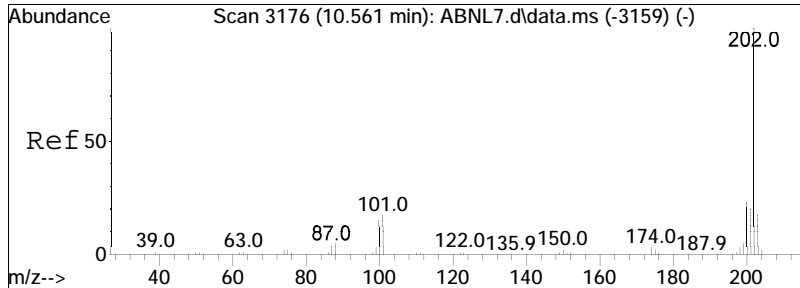




#93
 Fluoranthene
 Concen: 26.17 ug/ml
 RT: 9.326 min Scan# 2970
 Delta R.T. -0.006 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

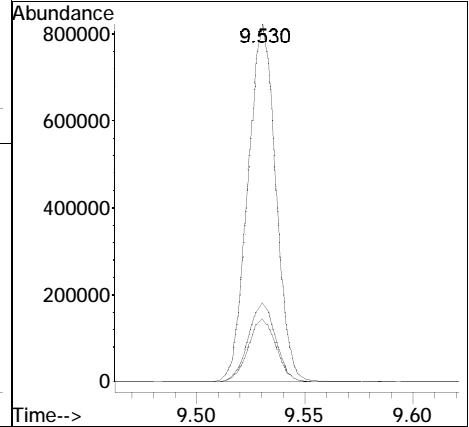
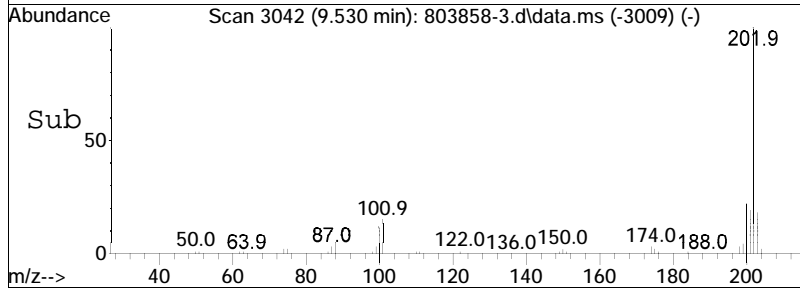
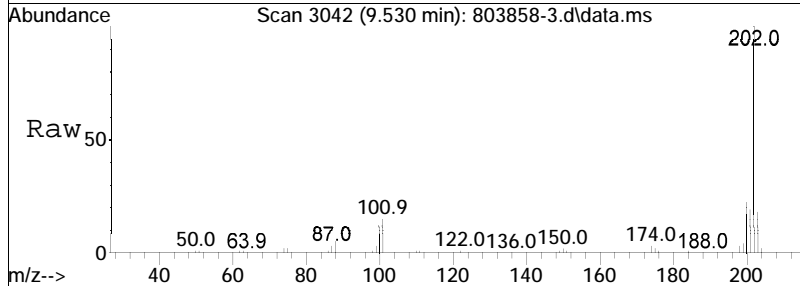
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	11.4	17.0
203	17.3	13.9	20.9

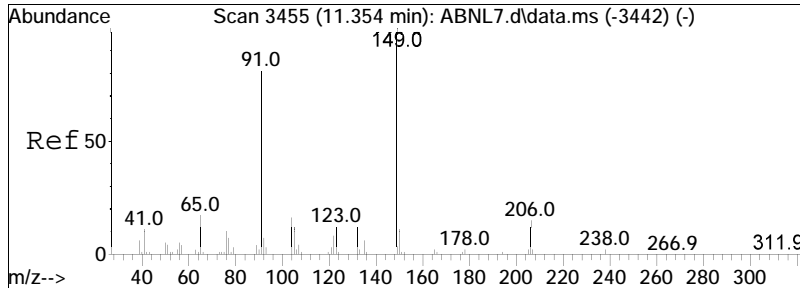




#95
 Pyrene
 Concen: 25.71 ug/ml
 RT: 9.530 min Scan# 3042
 Delta R.T. -0.006 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

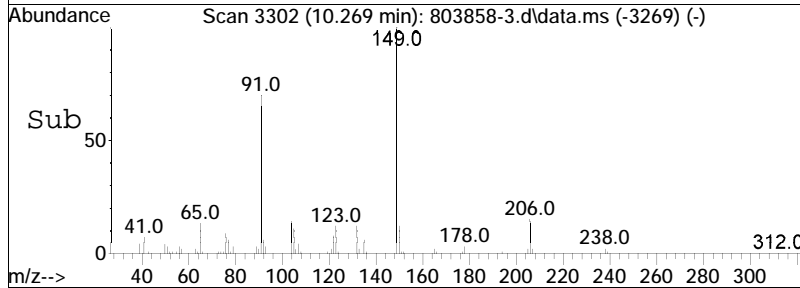
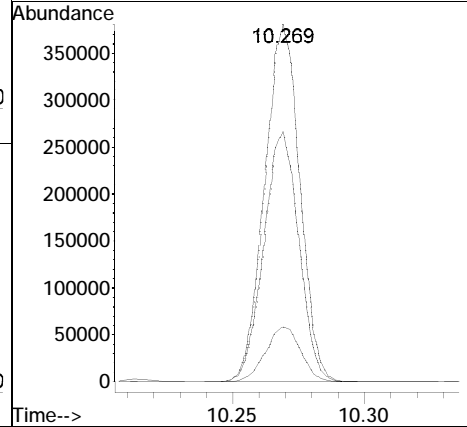
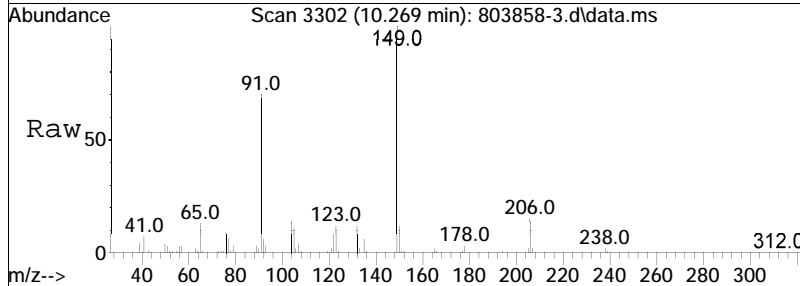
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.0	25.4
203	17.7	14.2	21.2

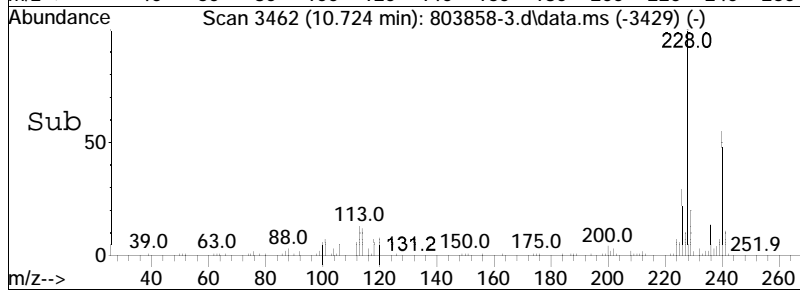
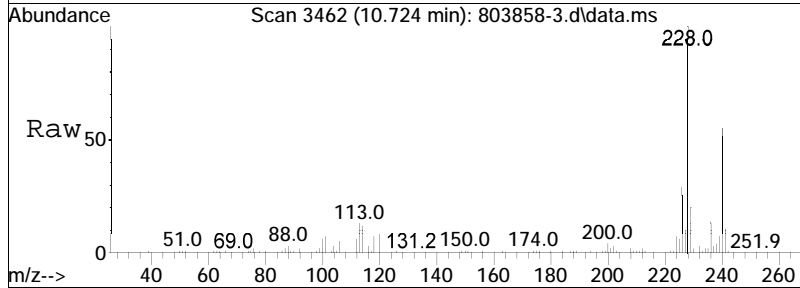
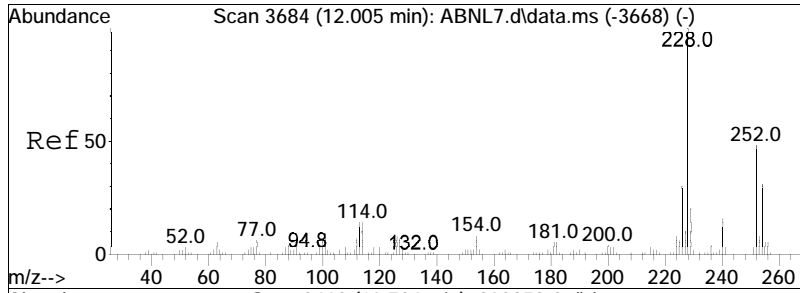




#97
 Butyl benzyl phthalate
 Concen: 29.00 ug/ml
 RT: 10.269 min Scan# 3302
 Delta R.T. -0.006 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

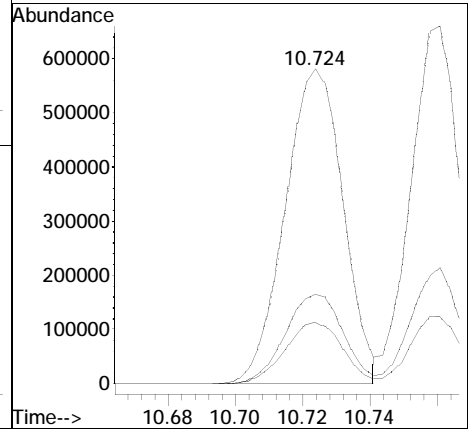
Tgt Ion	Ratio	Lower	Upper
149	100		
91	69.8	61.2	91.8
206	15.5	12.5	18.7

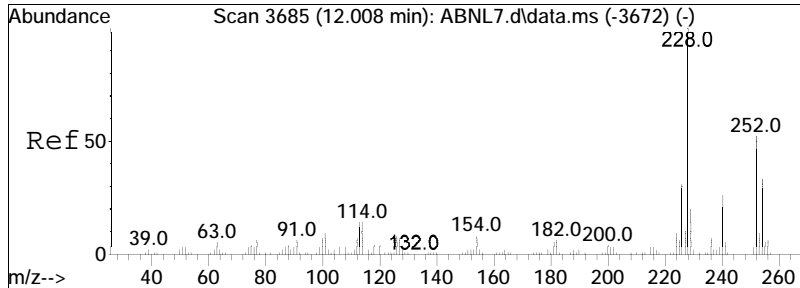




#105
 Benzo(a)anthracene
 Concen: 25.23 ug/ml
 RT: 10.724 min Scan# 3462
 Delta R.T. -0.006 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

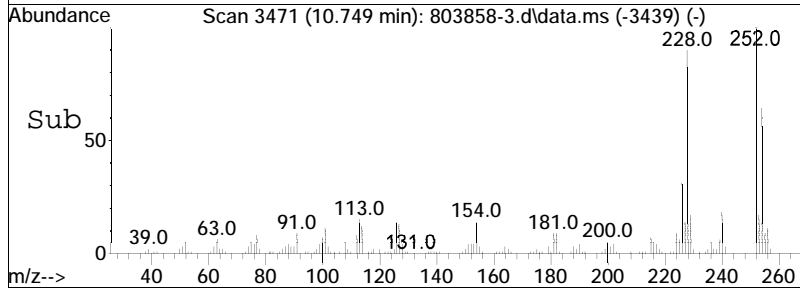
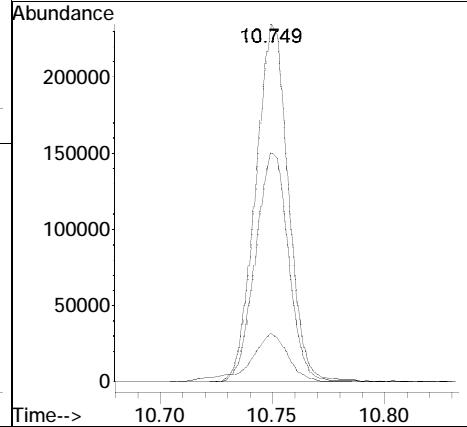
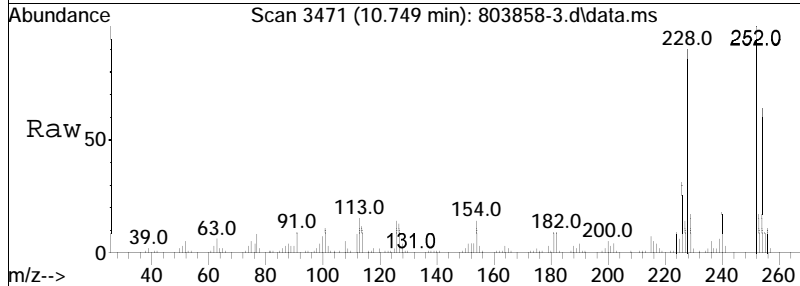
Tgt Ion	Resp	Lower	Upper
228	694938		
228	100		
226	28.6	22.2	33.2
229	19.5	15.6	23.4

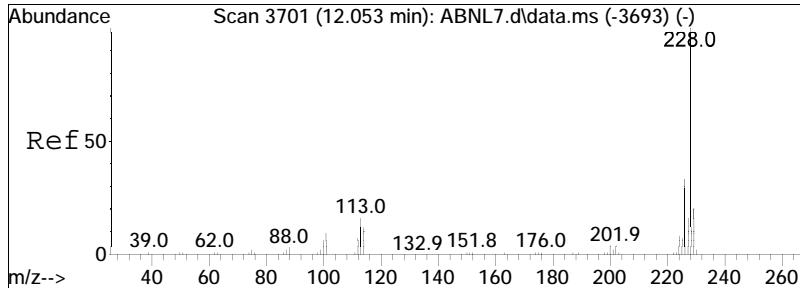




#106
 3,3'-Dichlorobenzidine
 Concen: 23.50 ug/ml
 RT: 10.749 min Scan# 3471
 Delta R.T. -0.009 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

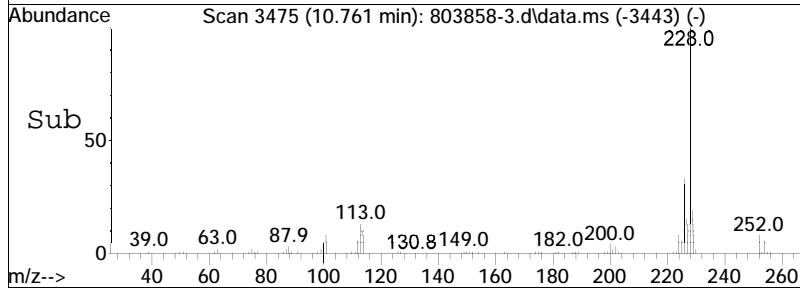
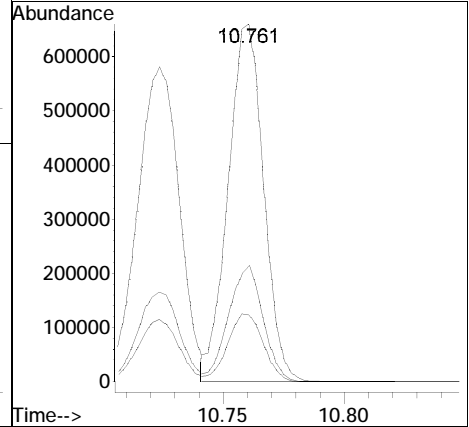
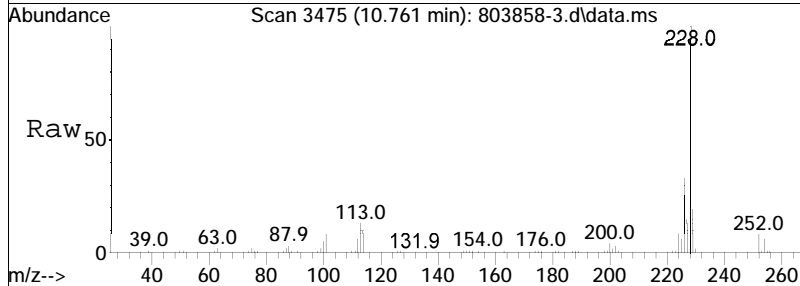
Tgt Ion	Ratio	Lower	Upper
252	100		
126	15.9	13.8	20.6
254	65.1	53.0	79.6

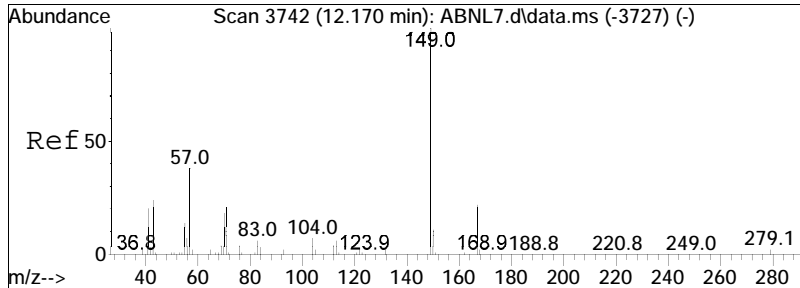




#107
 Chrysene
 Concen: 24.25 ug/ml
 RT: 10.761 min Scan# 3475
 Delta R.T. -0.009 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

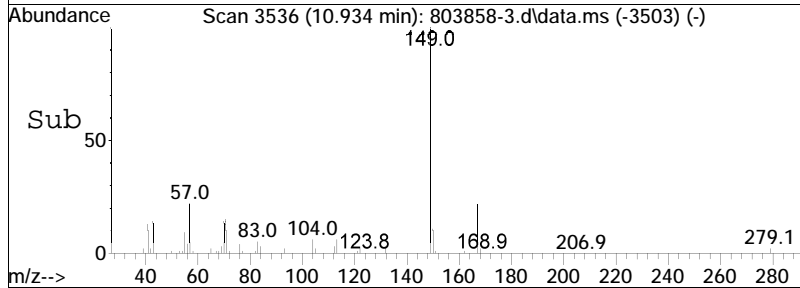
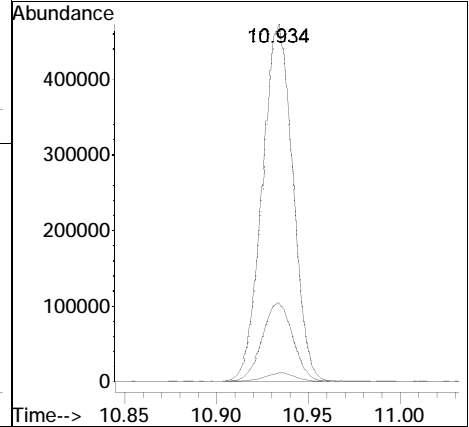
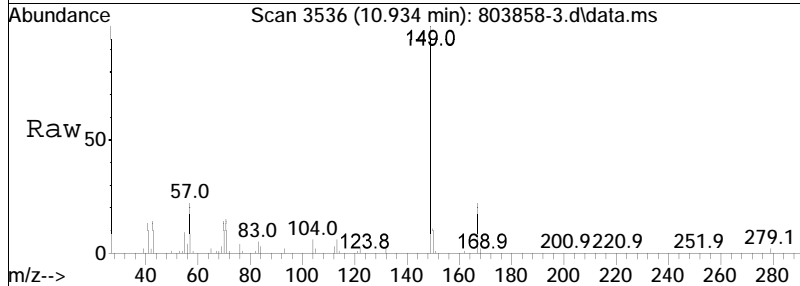
Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.1	24.6	37.0
229	19.3	15.8	23.6

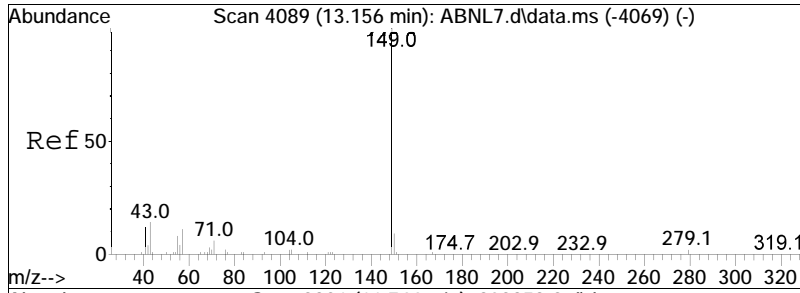




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 28.09 ug/ml
 RT: 10.934 min Scan# 3536
 Delta R.T. -0.006 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

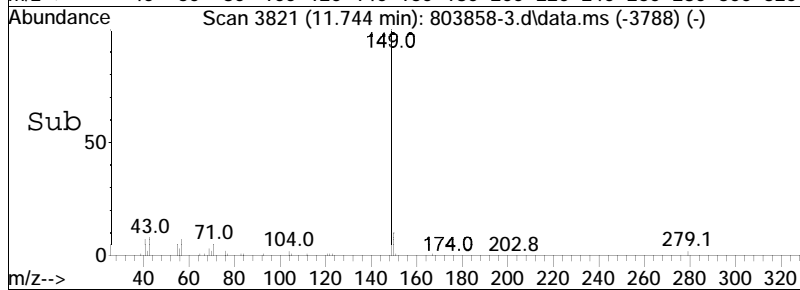
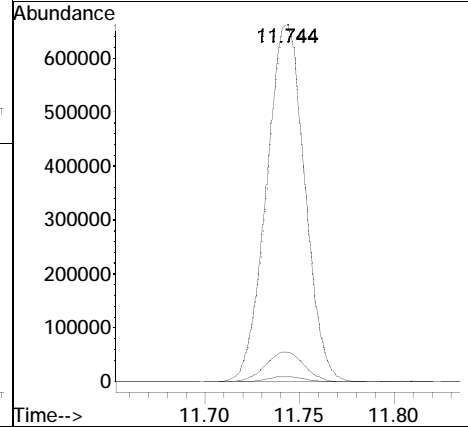
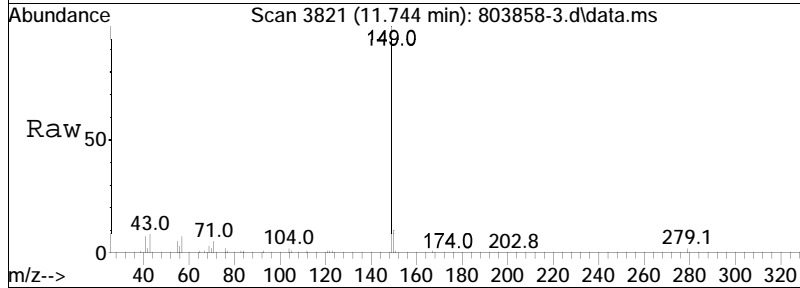
Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.3	19.4	29.0
279	2.2	2.3	3.5#

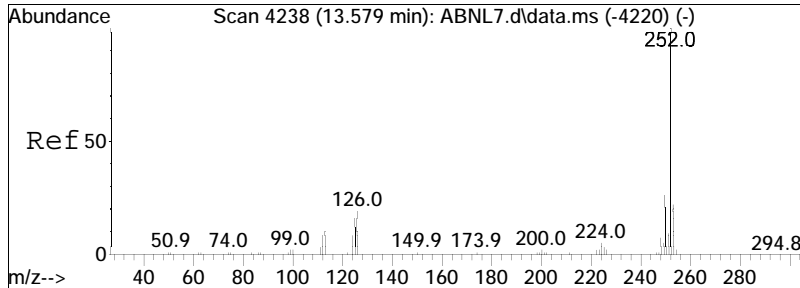




#109
 Di-n-octylphthalate
 Concen: 28.70 ug/ml
 RT: 11.744 min Scan# 3821
 Delta R.T. -0.006 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

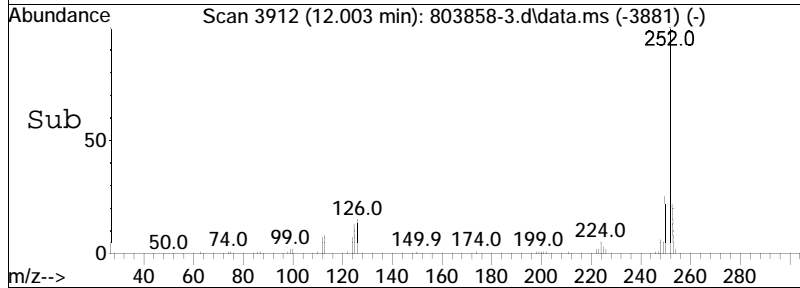
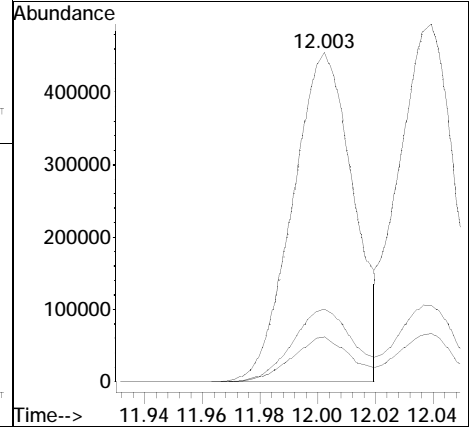
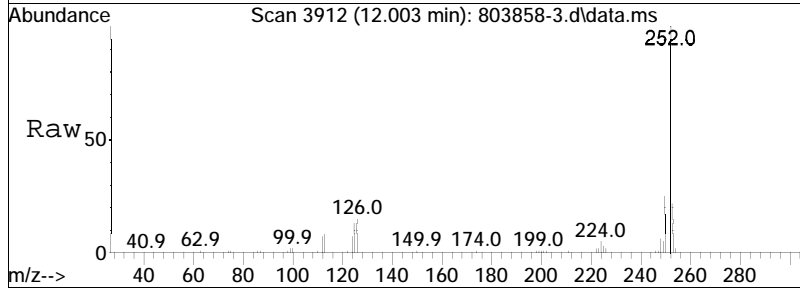
Tgt Ion	Ratio	Lower	Upper
149	100		
43	8.6	10.1	15.1#
167	1.3	1.1	1.7

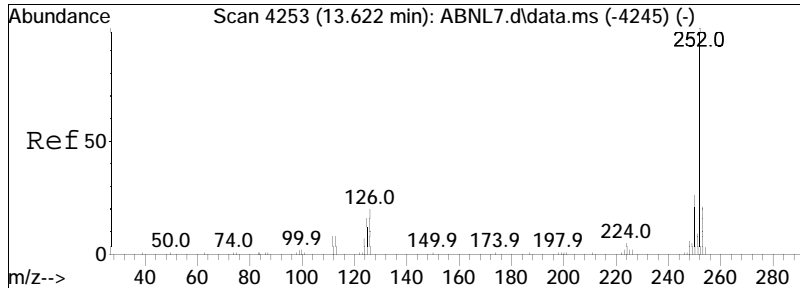




#110
 Benzo(b)fluoranthene
 Concen: 24.93 ug/ml
 RT: 12.003 min Scan# 3912
 Delta R.T. -0.011 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

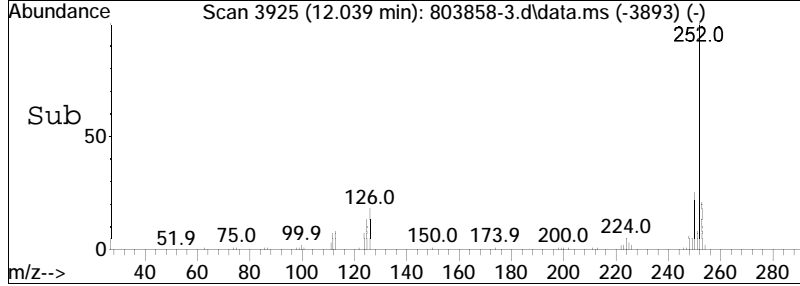
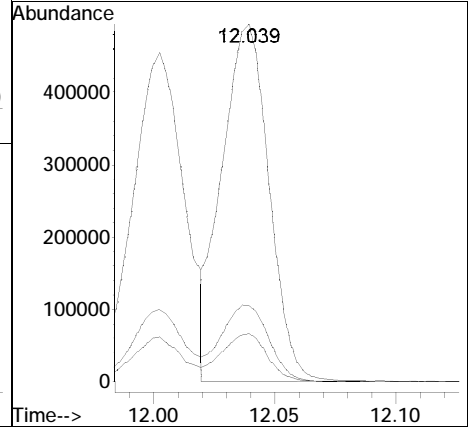
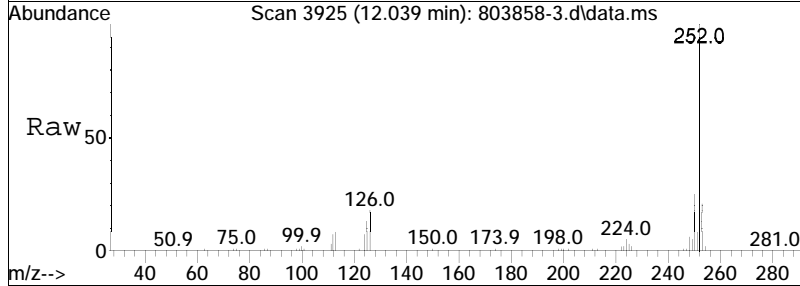
Tgt Ion	Ratio	Lower	Upper
252	100		
125	13.3	11.6	17.4
253	21.9	17.4	26.0

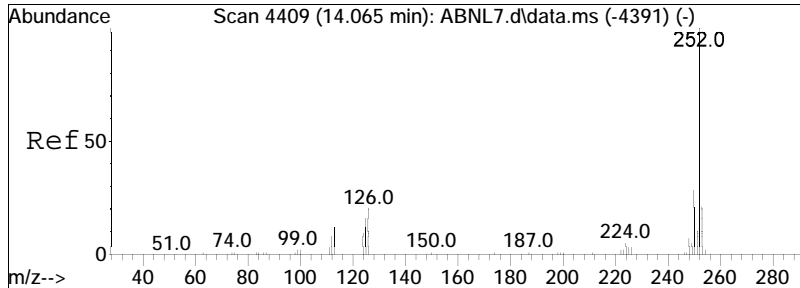




#111
 Benzo(k)fluoranthene
 Concen: 24.36 ug/ml
 RT: 12.039 min Scan# 3925
 Delta R.T. -0.009 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

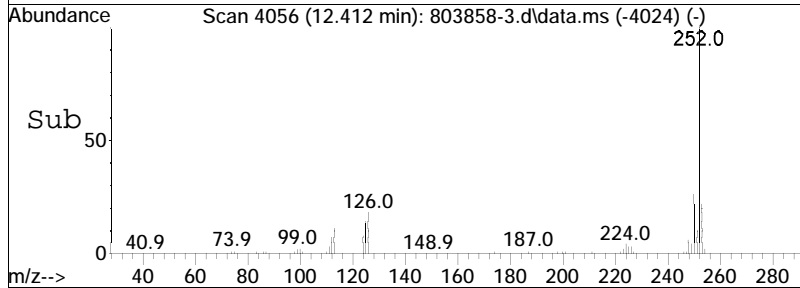
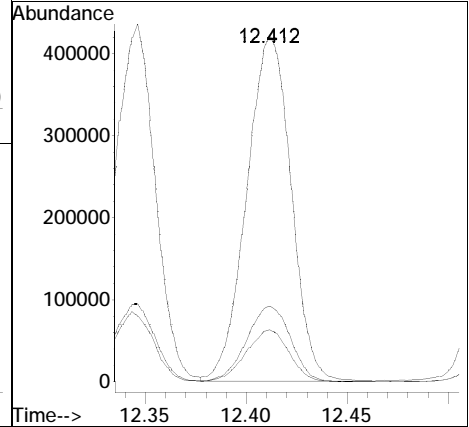
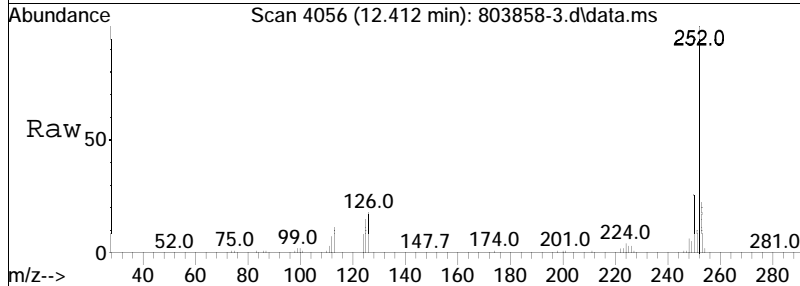
Tgt Ion	Resp	Lower	Upper
252	100		
125	13.1	11.4	17.0
253	21.8	17.2	25.8

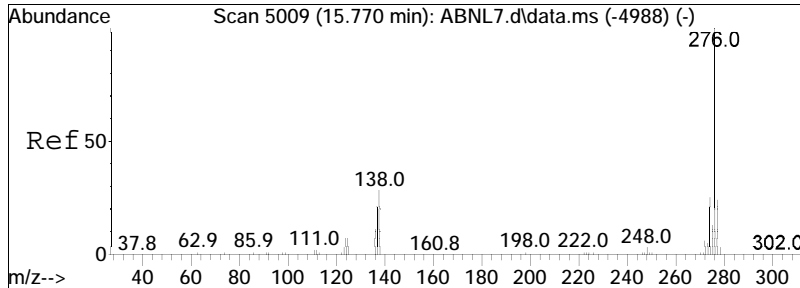




#112
 Benzo(a)pyrene
 Concen: 27.65 ug/ml
 RT: 12.412 min Scan# 4056
 Delta R.T. -0.009 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

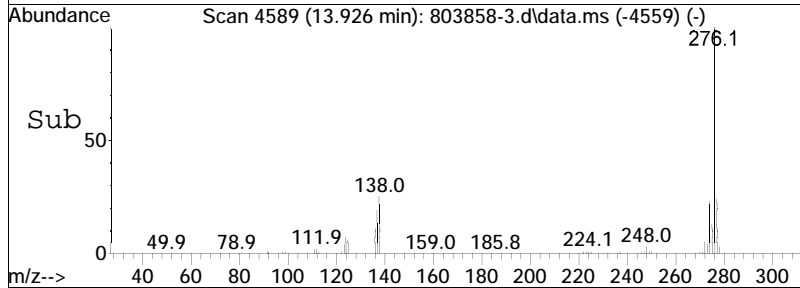
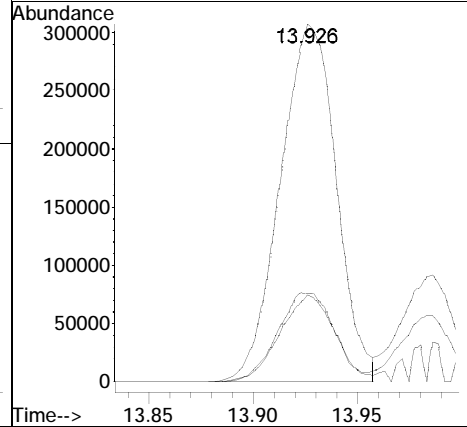
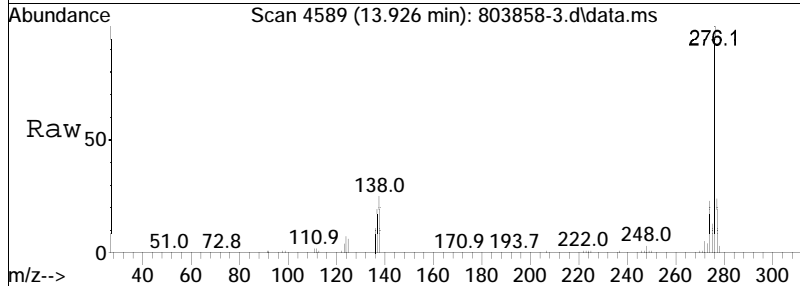
Tgt Ion	Ratio	Lower	Upper
252	100		
125	14.6	12.6	18.8
253	21.8	16.9	25.3

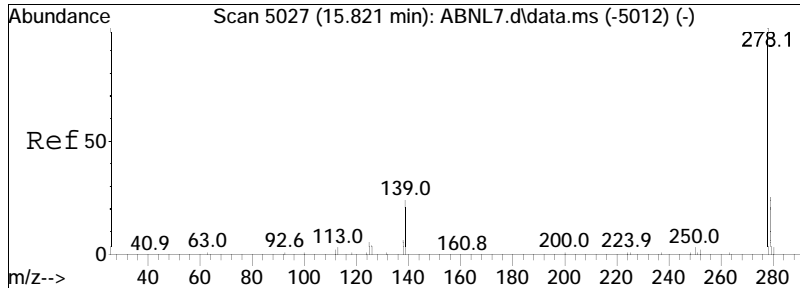




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 27.78 ug/mL
 RT: 13.926 min Scan# 4589
 Delta R.T. -0.014 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

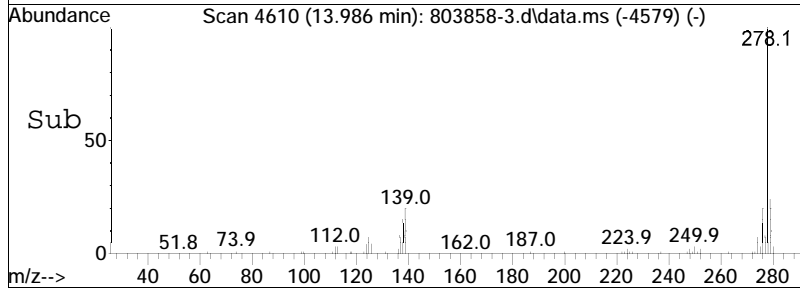
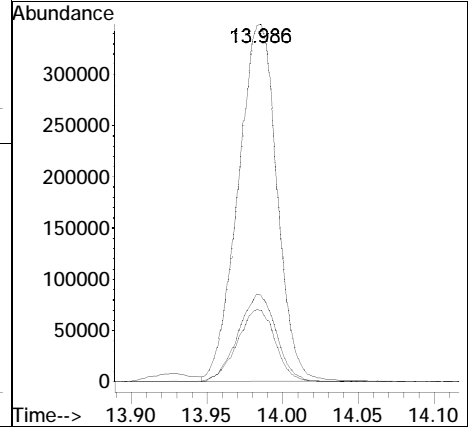
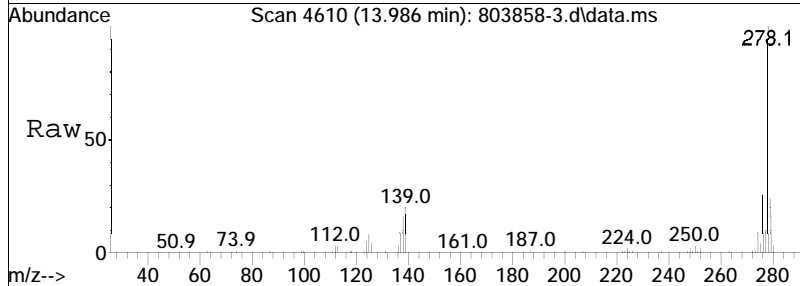
Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.3	21.4	32.0
277	23.9	19.2	28.8

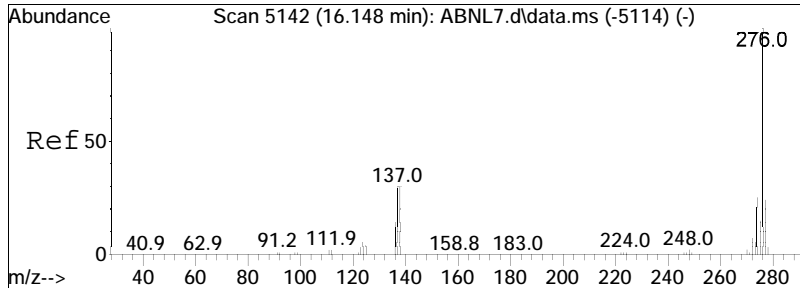




#115
 Dibenzo(a,h)anthracene
 Concen: 25.03 ug/ml
 RT: 13.986 min Scan# 4610
 Delta R.T. -0.011 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

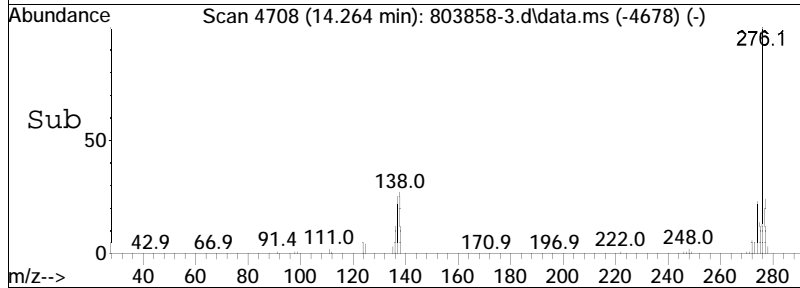
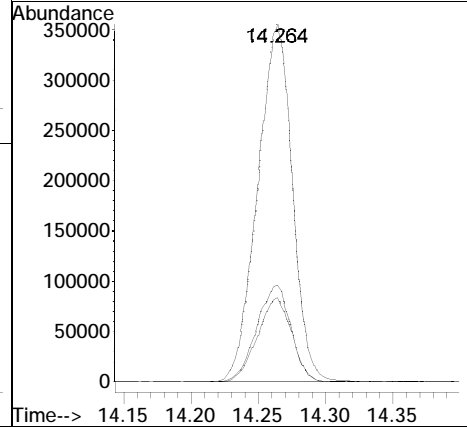
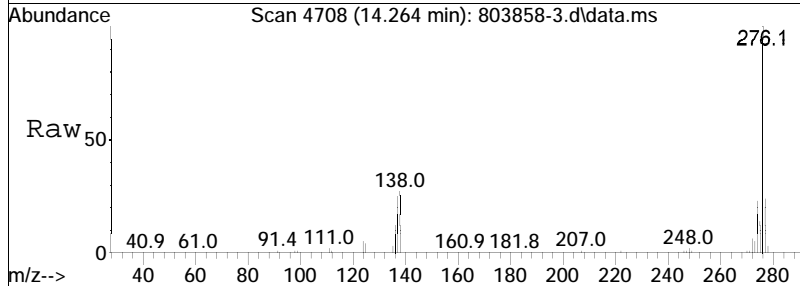
Tgt Ion	Resp	Lower	Upper
278	100		
139	20.0	17.1	25.7
279	24.2	19.3	28.9





#116
 Benzo(ghi)perylene
 Concen: 25.19 ug/ml
 RT: 14.264 min Scan# 4708
 Delta R.T. -0.014 min
 Lab File: 803858-3.d
 Acq: 19 Jul 2023 2:01 am

Tgt Ion	Resp	Lower	Upper
276	100		
138	27.0	26.7	40.1
277	23.6	19.4	29.2



Manual Integration Report

Data Path	: I:\8270\SV103\230718n\	QMethod	: FS230515nSV103.m
Data File	: 803858-3.d	Operator	: SV103:ek
Date Inj'd	: 7/19/2023 2:01 am	Instrument	: SV103
Sample	: WG1803858-3,32,,mg	Quant Date	: 7/19/2023 2:21 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
 Data File : 804755-3.D
 Acq On : 19 Jul 2023 8:41 am
 Operator : SV124:jg
 Sample : WG1804755-3,32,,gmr
 Misc : WG1804924,WG1804755,ical20053
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 19 09:57:56 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:46:09 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230719\ABN0719.D
 : 2 - I:\8270\sv124\230719\ADP0719.D
 : 3 - I:\8270\sv124\230719\AP90719.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.374	152	80877	40.000	ug/ml	0.00
Standard Area 1 = 83649			Recovery =	96.69%		
27) IS2_1,4-Dichlorobenzen...	3.374	152	80877	40.000	ug/ml	0.00
Standard Area 3 = 78776			Recovery =	102.67%		
32) IS3_1,4-Dichlorobenzen...	3.374	152	80877	40.000	ug/ml	0.00
Standard Area 2 = 83138			Recovery =	97.28%		
35) IS1_Naphthalene-d8	4.157	136	325207	40.000	ug/ml	# 0.00
Standard Area 1 = 345862			Recovery =	94.03%		
55) IS2_Naphthalene-d8	4.157	136	325207	40.000	ug/ml	# 0.00
Standard Area 3 = 330473			Recovery =	98.41%		
63) IS1_Acenaphthene-d10	5.282	164	175152	40.000	ug/ml	0.00
Standard Area 1 = 189721			Recovery =	92.32%		
83) IS2_Acenaphthene-d10	5.282	164	175152	40.000	ug/ml	0.00
Standard Area 3 = 175556			Recovery =	99.77%		
86) IS3_Acenaphthene-d10	5.282	164	175152	40.000	ug/ml	0.00
Standard Area 2 = 188343			Recovery =	93.00%		
88) IS1_Phenanthrene-d10	6.243	188	346045	40.000	ug/ml	0.00
Standard Area 1 = 393875			Recovery =	87.86%		
100) IS3_Phenanthrene-d10	6.243	188	346045	40.000	ug/ml	0.00
Standard Area 2 = 380390			Recovery =	90.97%		
104) IS1_Chrysene-d12	8.120	240	307635	40.000	ug/ml	0.00
Standard Area 1 = 362434			Recovery =	84.88%		
113) IS1_Perylene-d12	9.211	264	369007	40.000	ug/ml	0.00
Standard Area 1 = 440891			Recovery =	83.70%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.634	112	80283	37.053	ug/ml	0.02
Spiked Amount 50.000			Range 15 - 110	Recovery =	74.11%	
7) Phenol-d6	3.156	99	104526	36.933	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	73.87%	
19) Nitrobenzene-d5	3.710	82	48441	17.535	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	70.14%	
46) 2-Fluorobiphenyl	4.847	172	102115	16.366	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	65.46%	
79) 2,4,6-Tribromophenol	5.792	330	32474	30.712	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	61.42%	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
 Data File : 804755-3.D
 Acq On : 19 Jul 2023 8:41 am
 Operator : SV124:jg
 Sample : WG1804755-3,32,,gmr
 Misc : WG1804924,WG1804755,ical20053
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 19 09:57:56 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:46:09 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230719\ABN0719.D
 : 2 - I:\8270\sv124\230719\ADP0719.D
 : 3 - I:\8270\sv124\230719\AP90719.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	7.324	244	132195	15.813	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	63.25%
Target Compounds						Qvalue
6) 2-Chlorophenol	3.253	128	80750	31.531	ug/ml	96
8) Phenol	3.163	94	101908	33.292	ug/ml#	87
9) Bis(2-chloroethyl)ether	3.216	93	70144	28.404	ug/ml	96
14) Bis(2-chloroisopropyl)...	3.536	45	150416	35.655	ug/ml	96
15) 2-Methylphenol	3.523	108	70443	29.367	ug/ml	100
16) Hexachloroethane	3.682	117	32618	27.118	ug/ml	87
17) n-Nitrosodi-n-propylamine	3.616	70	60328	31.642	ug/ml#	96
18) 3-Methylphenol/4-Methy...	3.620	108	75004	30.763	ug/ml	94
20) Nitrobenzene	3.719	77	83730	29.745	ug/ml	99
21) Isophorone	3.868	82	153598	30.833	ug/ml	100
22) 2-Nitrophenol	3.918	139	43053	34.435	ug/ml	95
23) 2,4-Dimethylphenol	3.946	107	80150	30.273	ug/ml	96
24) Bis(2-chloroethoxy)met...	4.002	93	95273	29.938	ug/ml#	97
25) 2,4-Dichlorophenol	4.070	162	69189	30.803	ug/ml	98
28) Benzaldehyde	3.116	105	58802	37.153	ug/ml	90
29) Acetophenone	3.616	105	113633	31.702	ug/ml#	72
36) Naphthalene	4.170	128	233358	28.377	ug/ml	99
38) 4-Chloroaniline	4.207	65	23823	23.372	ug/ml	89
39) Hexachlorobutadiene	4.254	225	39525	24.109	ug/ml	98
40) p-Chloro-m-cresol	4.518	107	74012	33.314	ug/ml	96
41) 2-Methylnaphthalene	4.611	142	155088	29.126	ug/ml	97
43) Hexachlorocyclopentadiene	4.717	237	38759	18.365	ug/ml	99
44) 2,4,6-Trichlorophenol	4.798	196	50176	30.263	ug/ml	97
45) 2,4,5-Trichlorophenol	4.822	196	55693	30.512	ug/ml	98
47) 2-Chloronaphthalene	4.922	162	157943	29.418	ug/ml	99
48) 2-Nitroaniline	4.990	138	55917	35.909	ug/ml	96
51) Dimethyl phthalate	5.108	163	191202	30.304	ug/ml	99
52) Acenaphthylene	5.189	152	265331	31.563	ug/ml	98
53) 2,6-Dinitrotoluene	5.146	165	41789	33.335	ug/ml	96
60) Caprolactam	4.418	55	55531	41.892	ug/ml#	81
61) 1,2,4,5-Tetrachloroben...	4.723	216	73189	24.949	ug/ml	97
62) Biphenyl	4.909	154	194537	29.103	ug/ml	99
64) 3-Nitroaniline	5.254	138	41674	29.543	ug/ml#	92

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
 Data File : 804755-3.D
 Acq On : 19 Jul 2023 8:41 am
 Operator : SV124:jg
 Sample : WG1804755-3,32,,gmr
 Misc : WG1804924,WG1804755,ical20053
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 19 09:57:56 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:46:09 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230719\ABN0719.D
 : 2 - I:\8270\sv124\230719\ADP0719.D
 : 3 - I:\8270\sv124\230719\AP90719.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Acenaphthene	5.301	154	143690	27.584	ug/ml	94
66) 2,4-Dinitrophenol	5.329	184	8765	12.046	ug/ml	98
67) Dibenzofuran	5.413	168	233499	28.801	ug/ml	95
68) 2,4-Dinitrotoluene	5.410	165	58080	32.364	ug/ml	97
69) 4-Nitrophenol	5.369	65	36677	31.107	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	5.500	232	42746	25.972	ug/ml	99
72) Diethyl phthalate	5.562	149	206419	31.425	ug/ml	99
73) Fluorene	5.634	166	180683	26.953	ug/ml	95
74) 4-Chlorophenyl phenyl ...	5.634	204	84903	26.196	ug/ml	89
75) 4-Nitroaniline	5.652	138	46044	30.173	ug/ml	85
76) 4,6-Dinitro-o-cresol	5.677	198	28510	27.888	ug/ml	95
77) NDPA/DPA	5.711	169	156458	29.618	ug/ml	96
80) 4-Bromophenyl phenyl e...	5.951	248	50070	25.960	ug/ml	90
81) Hexachlorobenzene	6.000	284	60045	25.420	ug/ml	95
82) Pentachlorophenol	6.128	266	27094	19.718	ug/ml	97
87) Atrazine	6.059	200	48812	28.792	ug/ml	99
89) Phenanthrene	6.258	178	276202	30.100	ug/ml	99
90) Anthracene	6.293	178	292550	31.633	ug/ml	99
91) Carbazole	6.398	167	263367	32.493	ug/ml	99
92) Di-n-butylphthalate	6.625	149	356280	35.110	ug/ml	99
93) Fluoranthene	7.054	202	310028	29.334	ug/ml	96
95) Pyrene	7.216	202	323381	29.299	ug/ml	98
97) Butyl benzyl phthalate	7.685	149	164146	37.217	ug/ml	96
105) Benzo(a)anthracene	8.111	228	321240	30.940	ug/ml	98
106) 3,3'-Dichlorobenzidine	8.092	252	98243	26.822	ug/ml#	95
107) Chrysene	8.139	228	305767	30.002	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	8.133	149	250328	31.189	ug/ml#	96
109) Di-n-octylphthalate	8.633	149	429824	33.538	ug/ml	98
110) Benzo(b)fluoranthene	8.931	252	316182	30.001	ug/ml	98
111) Benzo(k)fluoranthene	8.950	252	324292	31.704	ug/ml	98
112) Benzo(a)pyrene	9.171	252	310172	34.695	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	9.935	276	385941	32.107	ug/mL	94
115) Dibenzo(a,h)anthracene	9.941	278	327522	30.626	ug/ml	97
116) Benzo(ghi)perylene	10.116	276	328150	31.086	ug/ml	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
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Acq On : 19 Jul 2023 8:41 am
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Sample : WG1804755-3,32,,gmr
Misc : WG1804924,WG1804755,ical20053
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 19 09:57:56 2023
Quant Method : I:\8270\SV124\230719\FS230526SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 09:46:09 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv124\230719\ABN0719.D
 : 2 - I:\8270\sv124\230719\ADP0719.D
 : 3 - I:\8270\sv124\230719\AP90719.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

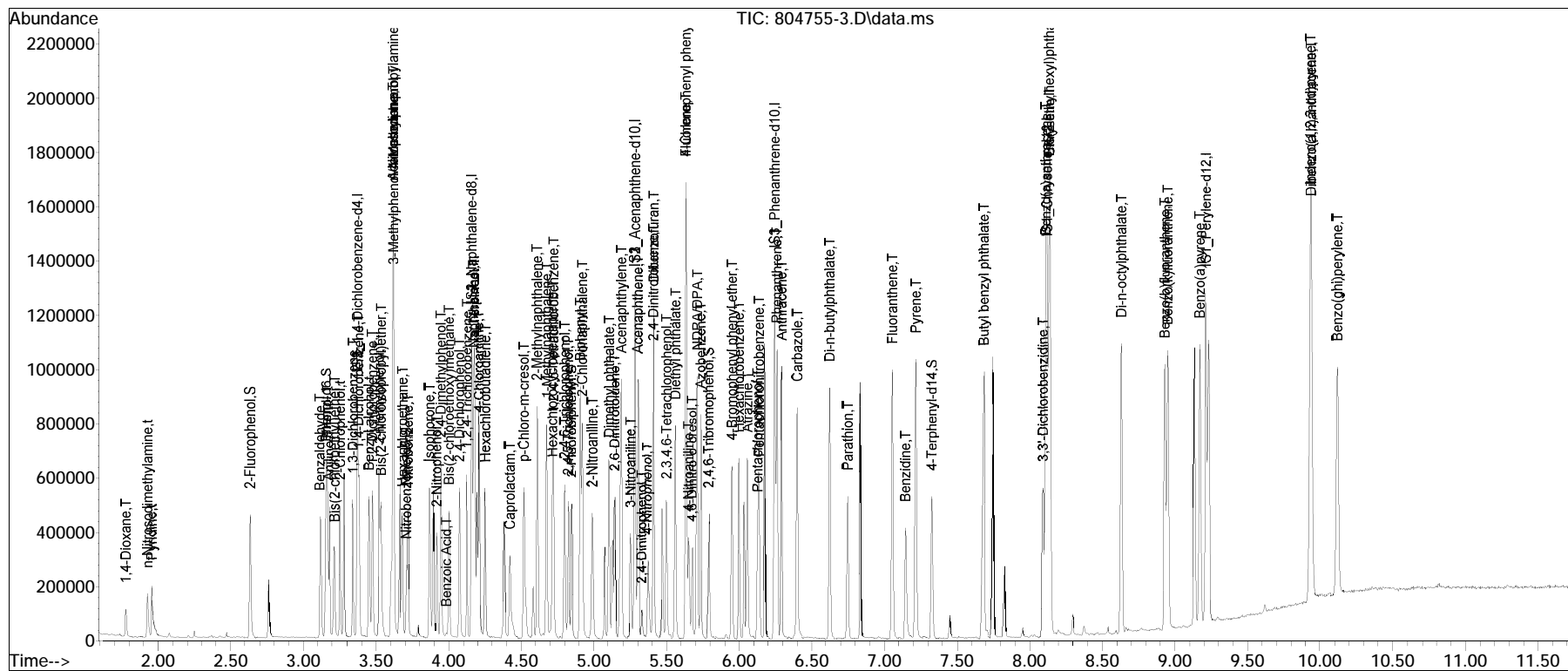
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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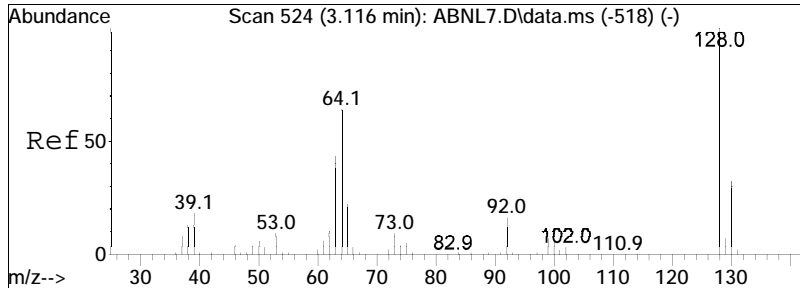
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\230719\
 Data File : 804755-3.D
 Acq On : 19 Jul 2023 8:41 am
 Operator : SV124:jg
 Sample : WG1804755-3,32,,gmr
 Misc : WG1804924,WG1804755,ical20053
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 19 09:57:56 2023
 Quant Method : I:\8270\SV124\230719\FS230526SV124.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 09:46:09 2023
 Response via : Initial Calibration

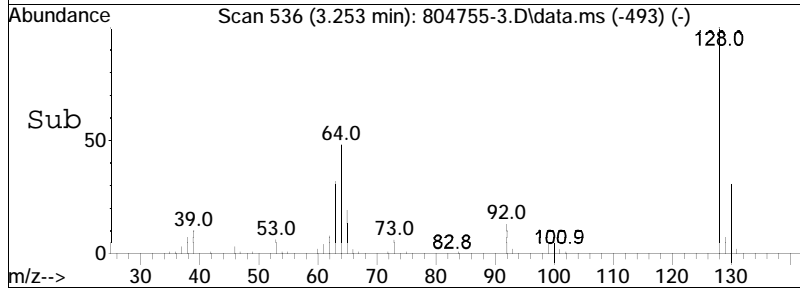
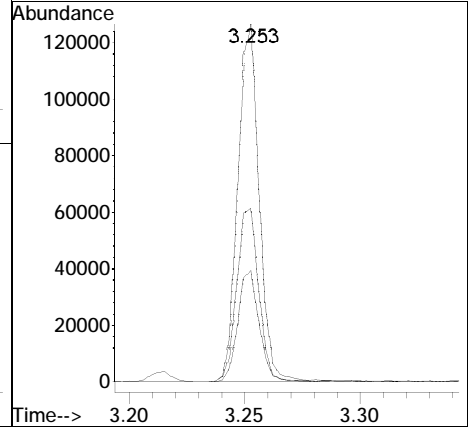
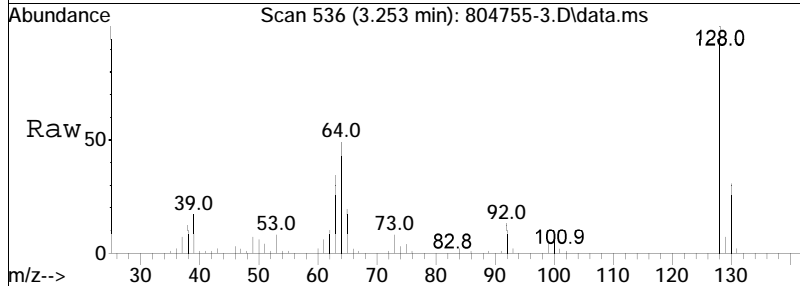
Sub List : 8270TCL_REV2 - TCL/CT/MA\AP90719.D•

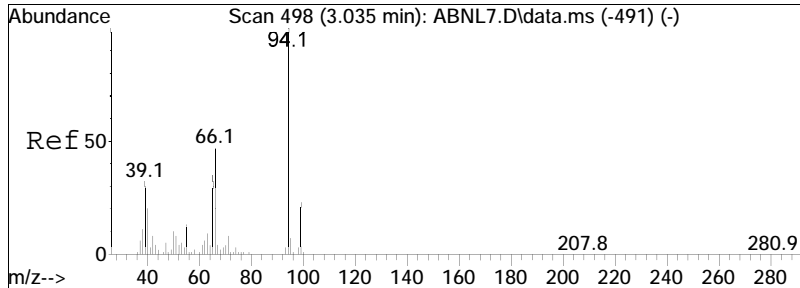




#6
 2-Chlorophenol
 Concen: 31.53 ug/ml
 RT: 3.253 min Scan# 536
 Delta R.T. 0.009 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

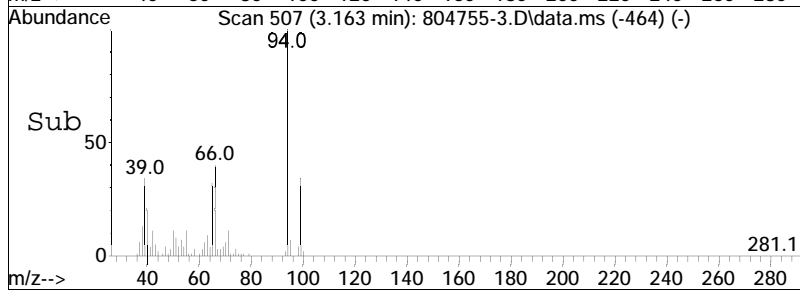
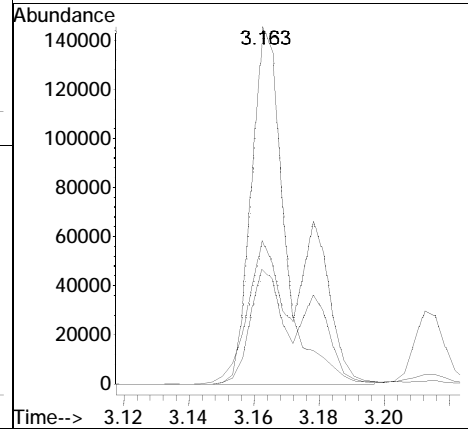
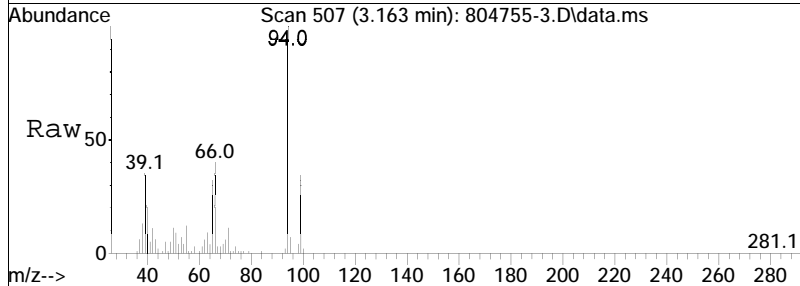
Tgt Ion	Resp	Lower	Upper
128	100		
64	49.7	42.7	64.1
130	31.2	25.8	38.6

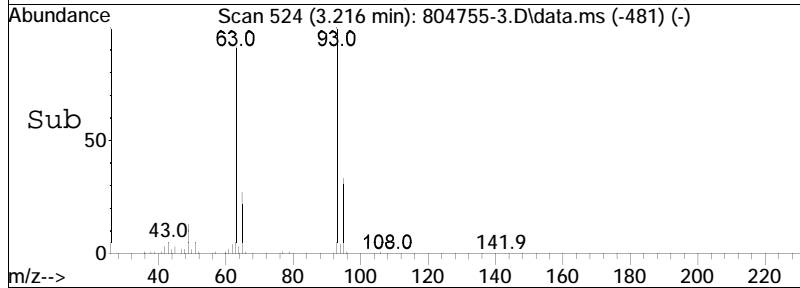
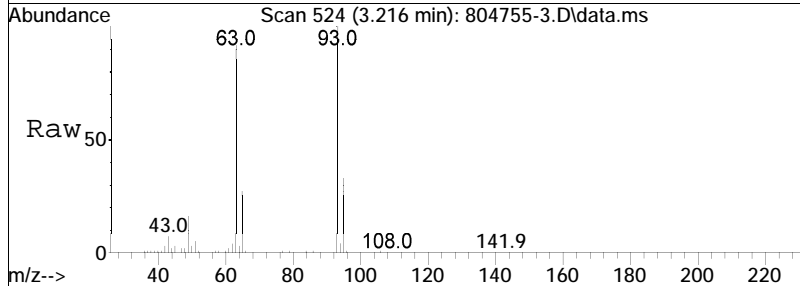
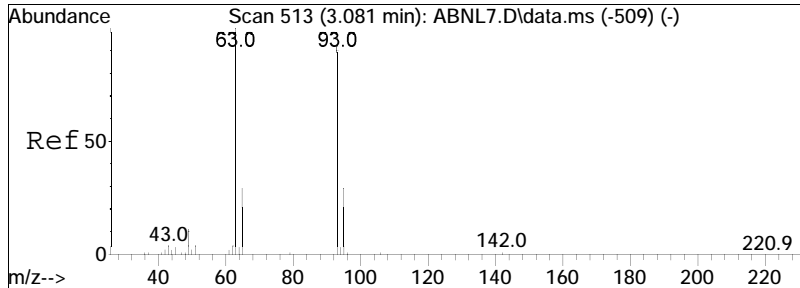




#8
 Phenol
 Concen: 33.29 ug/ml
 RT: 3.163 min Scan# 507
 Delta R.T. 0.009 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

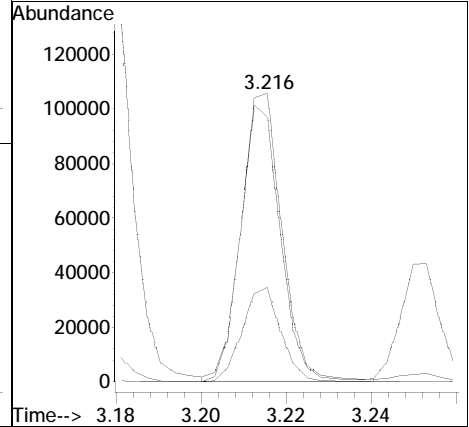
Tgt Ion:	94	Resp:	101908
Ion Ratio	Lower	Upper	
94	100		
65	32.0	20.5	30.7#
66	42.9	0.0	0.0#

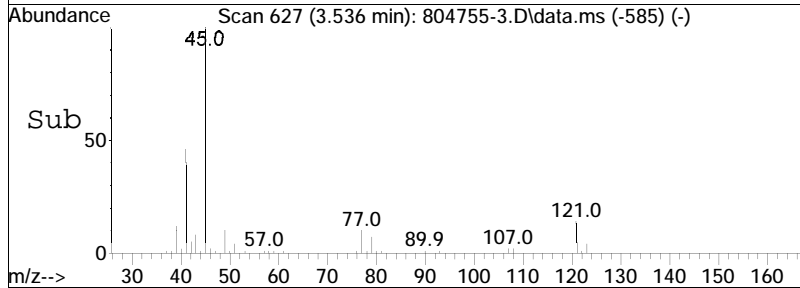
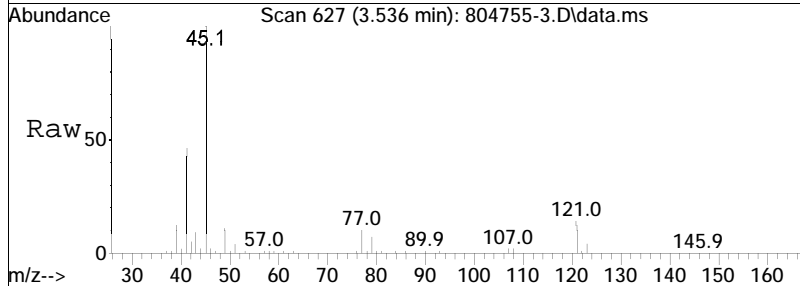
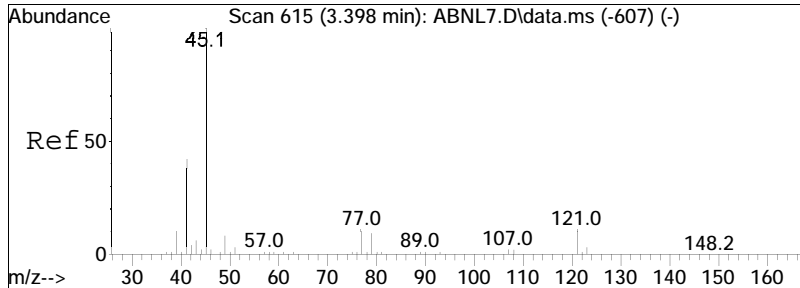




#9
 Bis(2-chloroethyl)ether
 Concen: 28.40 ug/ml
 RT: 3.216 min Scan# 524
 Delta R.T. 0.009 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

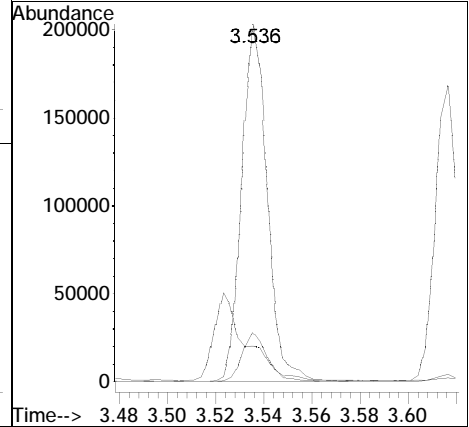
Tgt Ion:	93	Resp:	70144
Ion Ratio	Lower	Upper	
93	100		
63	92.7	70.4	105.6
95	31.5	25.8	38.6

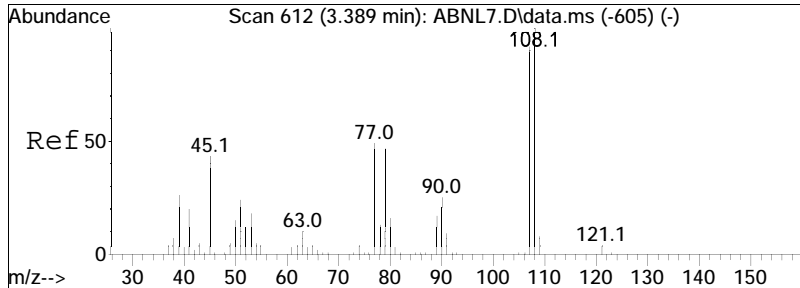




#14
 Bis(2-chloroisopropyl) ether
 Concen: 35.66 ug/ml
 RT: 3.536 min Scan# 627
 Delta R.T. 0.006 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

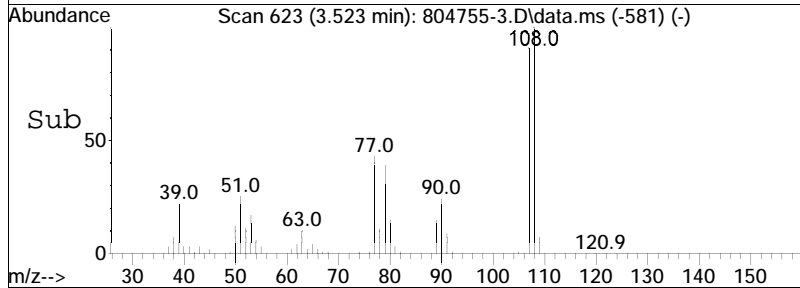
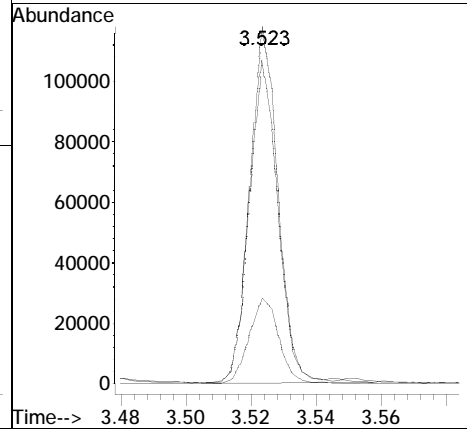
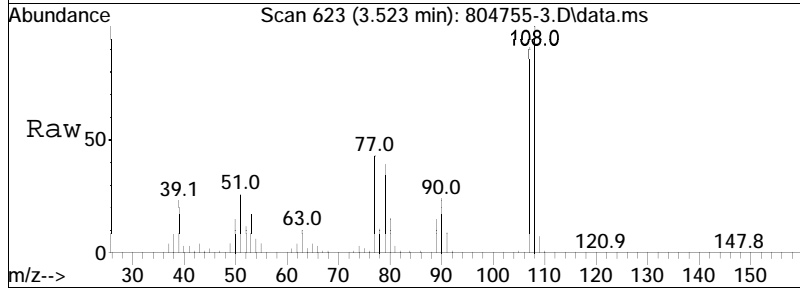
Tgt Ion:	45	Resp:	150416
Ion Ratio	Lower	Upper	
45	100		
121	13.4	12.6	19.0
77	31.3	26.4	39.6

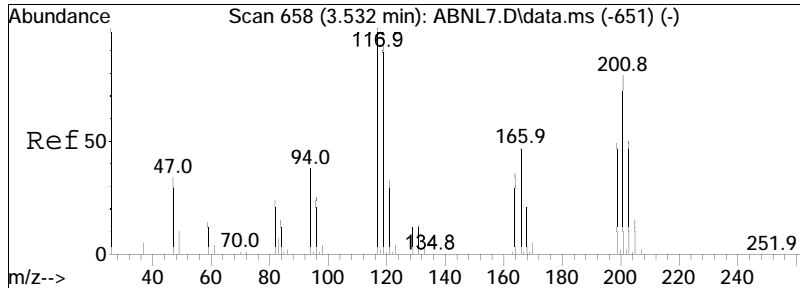




#15
 2-Methylphenol
 Concen: 29.37 ug/ml
 RT: 3.523 min Scan# 623
 Delta R.T. 0.006 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

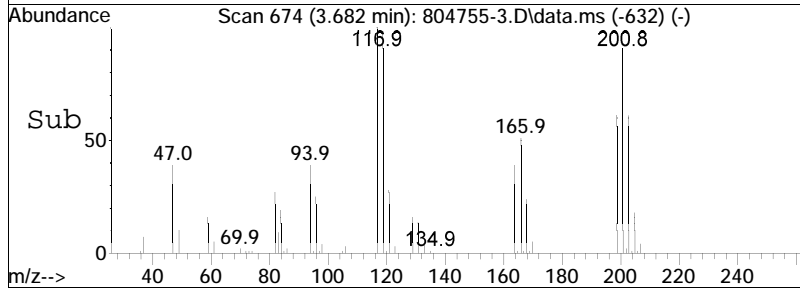
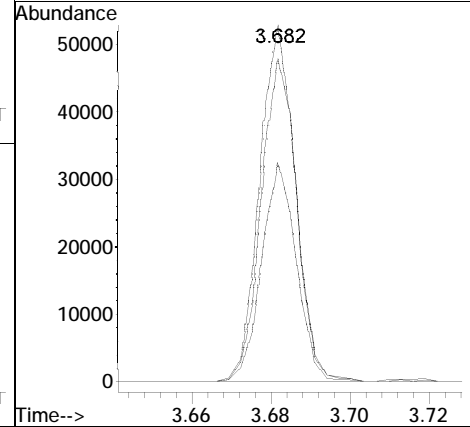
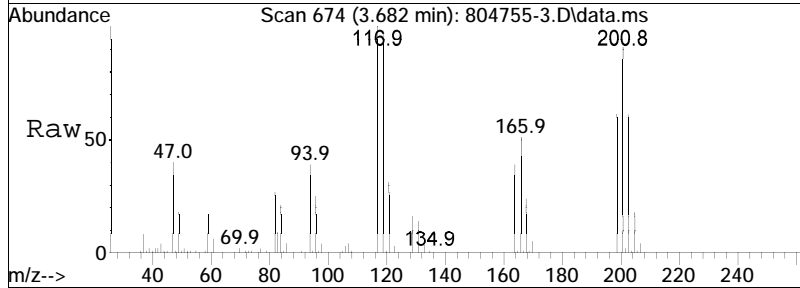
Tgt Ion	Ratio	Lower	Upper
108	100		
107	91.2	72.8	109.2
90	25.8	20.2	30.4

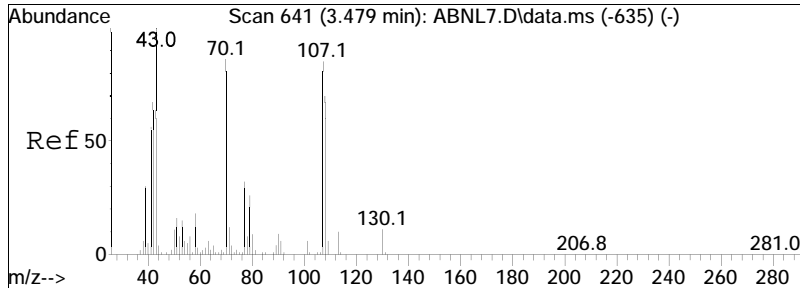




#16
 Hexachloroethane
 Concen: 27.12 ug/ml
 RT: 3.682 min Scan# 674
 Delta R.T. 0.006 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

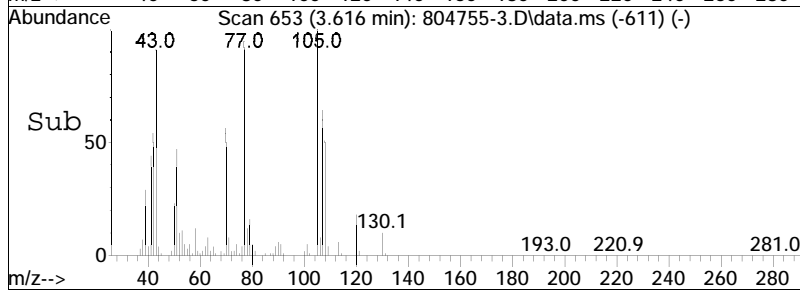
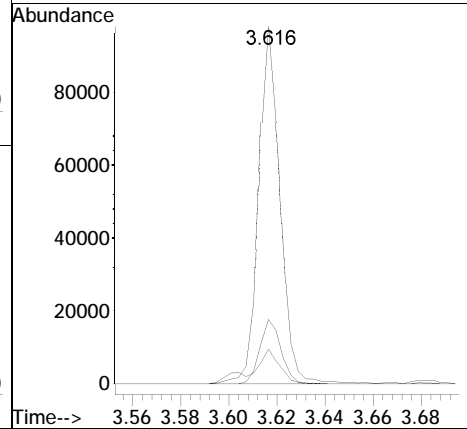
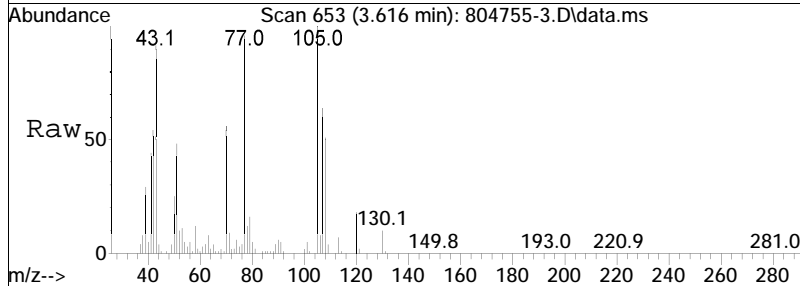
Tgt Ion	Resp	Lower	Upper
117	100		
201	91.3	64.5	96.7
199	60.2	40.3	60.5

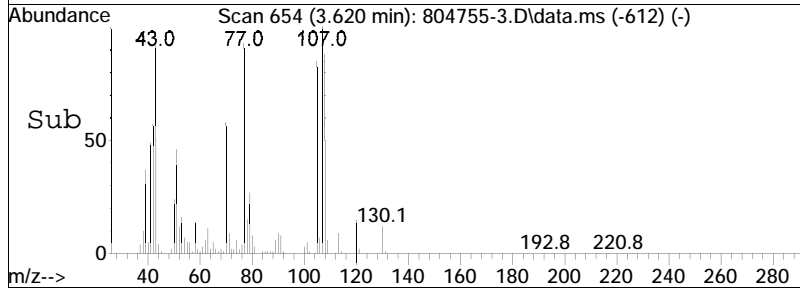
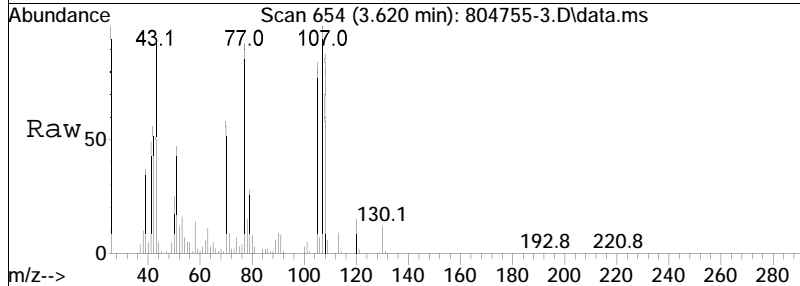
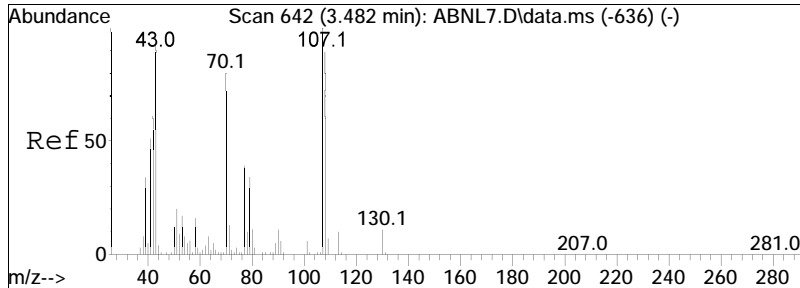




#17
 n-Nitrosodi-n-propylamine
 Concen: 31.64 ug/ml
 RT: 3.616 min Scan# 653
 Delta R.T. 0.006 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

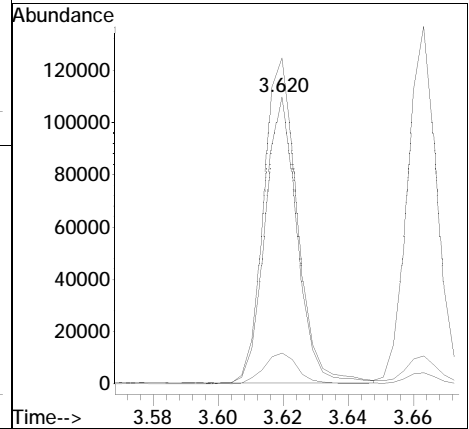
Tgt Ion	Ratio	Lower	Upper
70	100		
130	17.7	15.0	22.4
101	12.4	7.4	11.0#

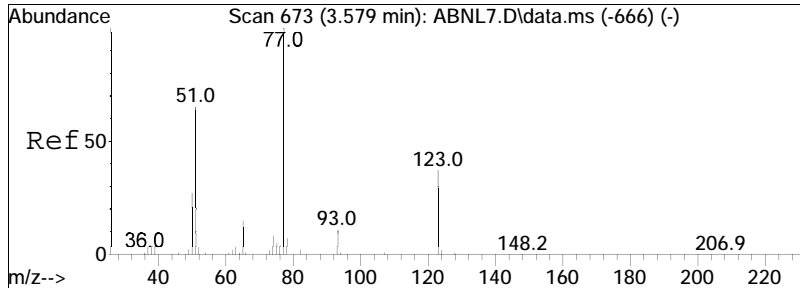




#18
 3-Methylphenol/4-Methylphenol
 Concen: 30.76 ug/ml
 RT: 3.620 min Scan# 654
 Delta R.T. 0.006 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

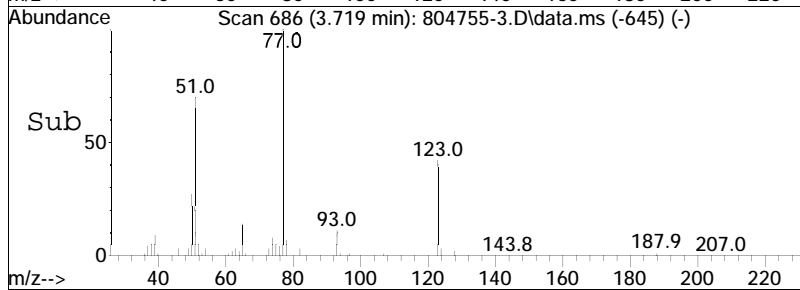
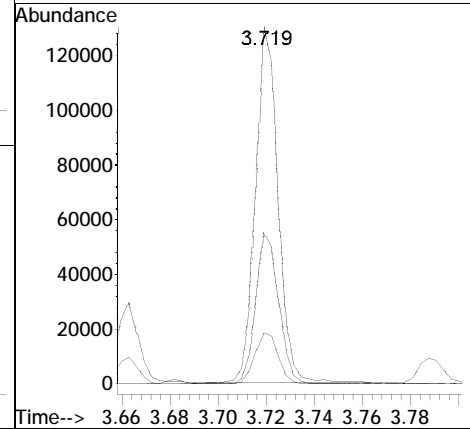
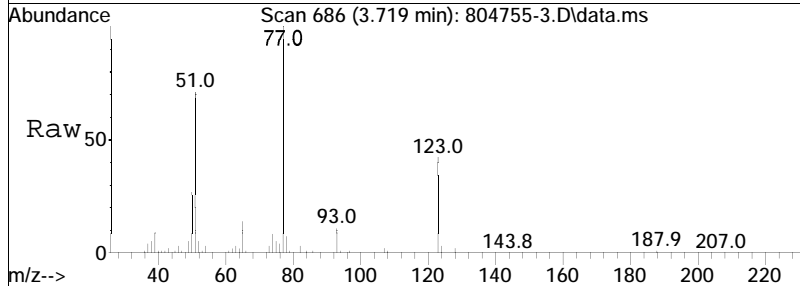
Tgt Ion	Ratio	Lower	Upper
108	100		
107	119.8	90.4	135.6
90	11.4	9.2	13.8

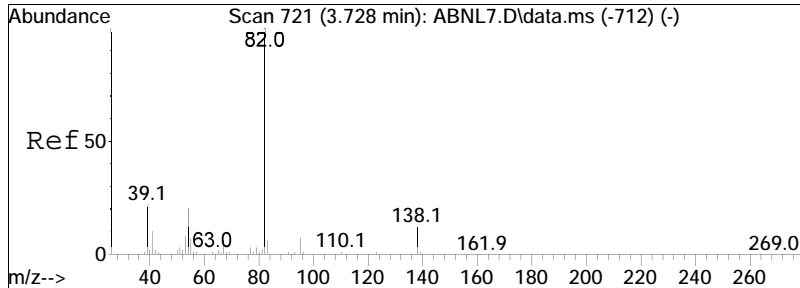




#20
 Nitrobenzene
 Concen: 29.74 ug/ml
 RT: 3.719 min Scan# 686
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

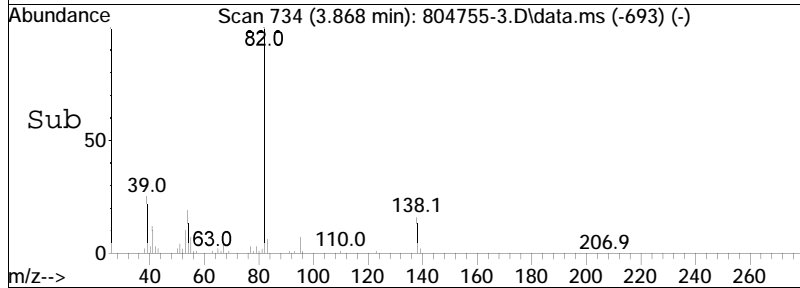
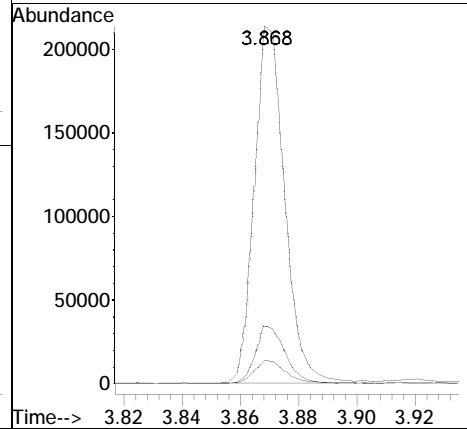
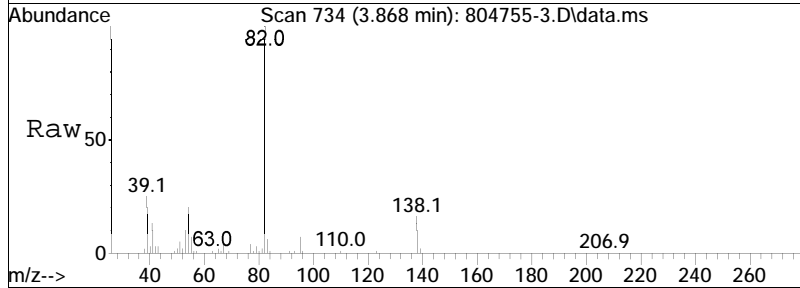
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
77	100		
123	44.0	35.0	52.4
65	15.6	11.5	17.3

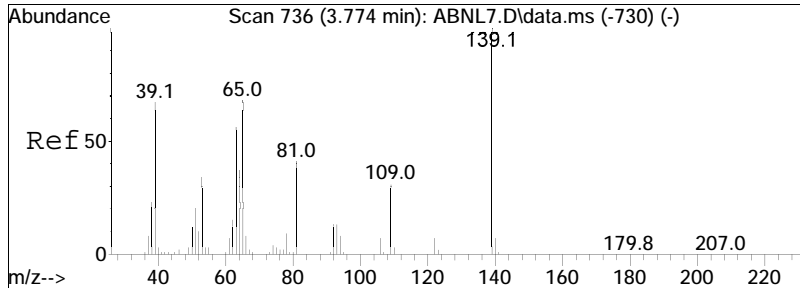




#21
 Isophorone
 Concen: 30.83 ug/ml
 RT: 3.868 min Scan# 734
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

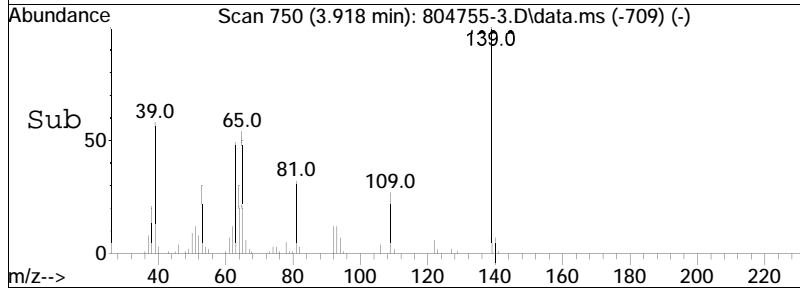
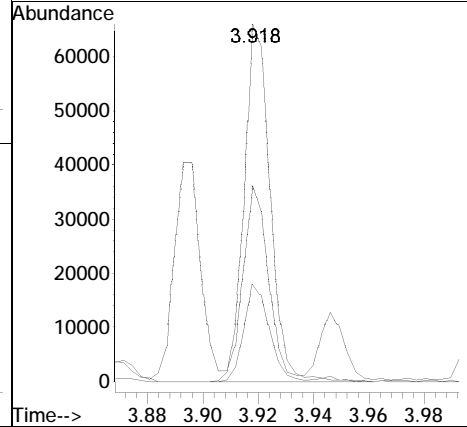
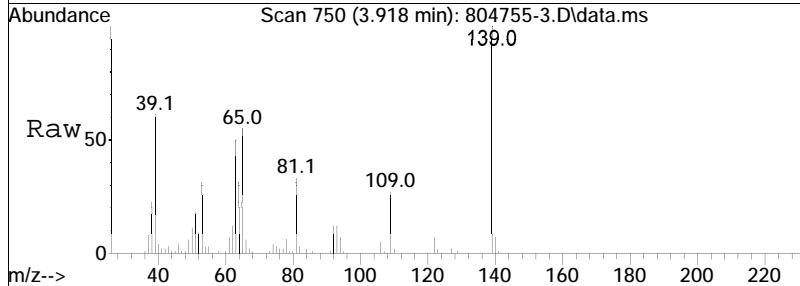
Tgt Ion	Resp	Lower	Upper
82	153598		
138	15.9	12.8	19.2
95	6.7	5.5	8.3

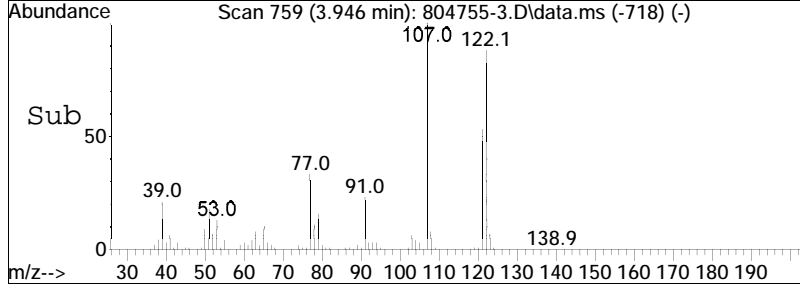
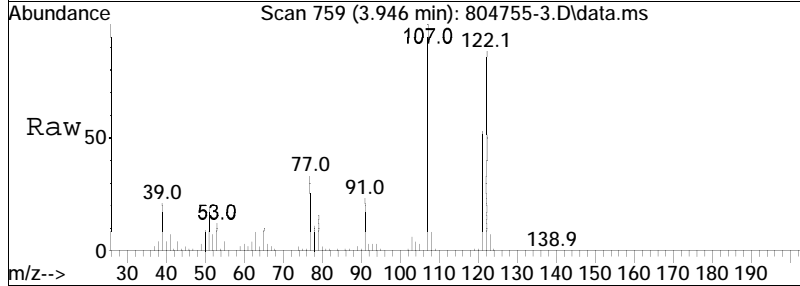
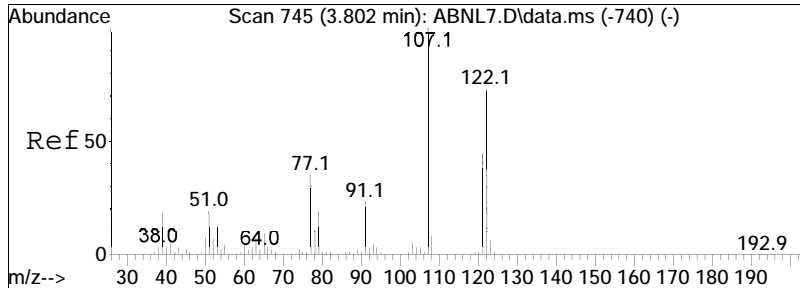




#22
 2-Nitrophenol
 Concen: 34.44 ug/ml
 RT: 3.918 min Scan# 750
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

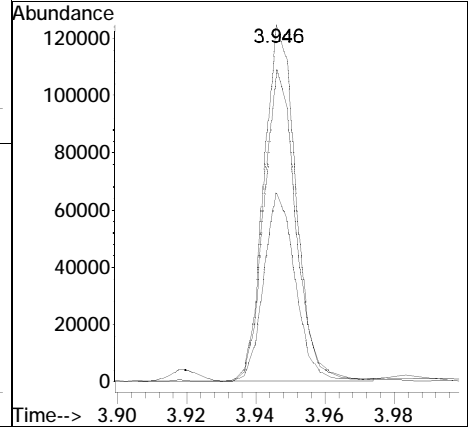
Tgt Ion	Ratio	Lower	Upper
139	100		
109	26.9	24.8	37.2
65	53.8	45.5	68.3

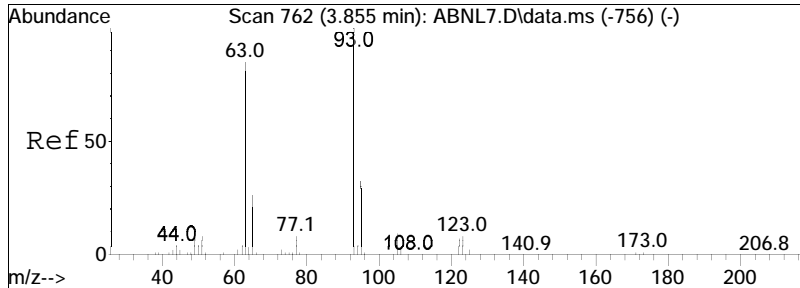




#23
 2,4-Dimethylphenol
 Concen: 30.27 ug/ml
 RT: 3.946 min Scan# 759
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

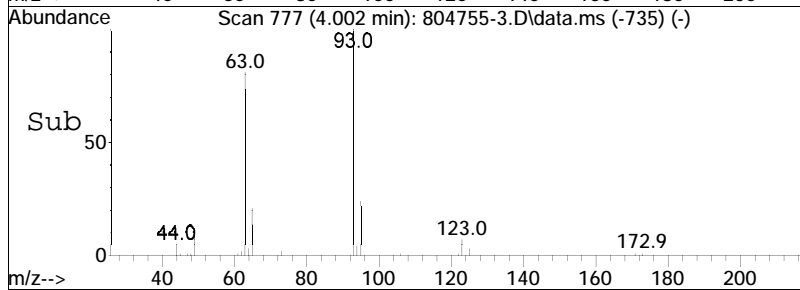
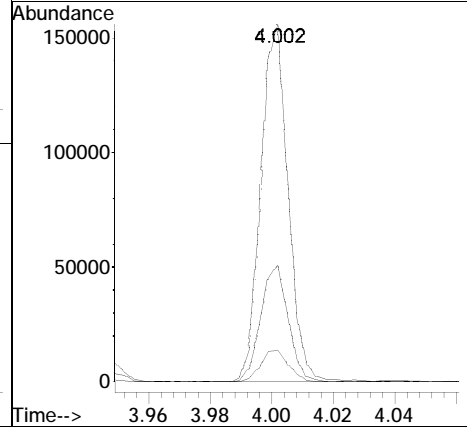
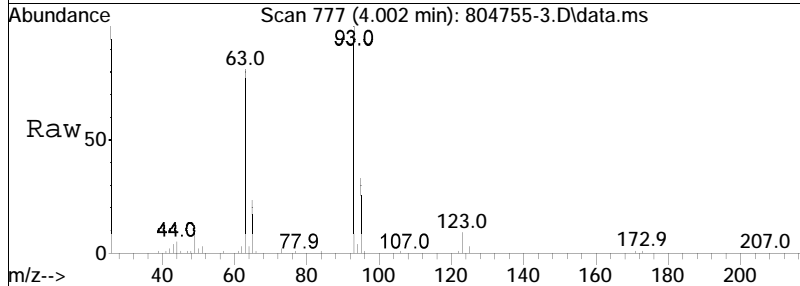
Tgt Ion	Resp	Lower	Upper
107	100		
121	53.3	39.7	59.5
122	85.9	66.8	100.2

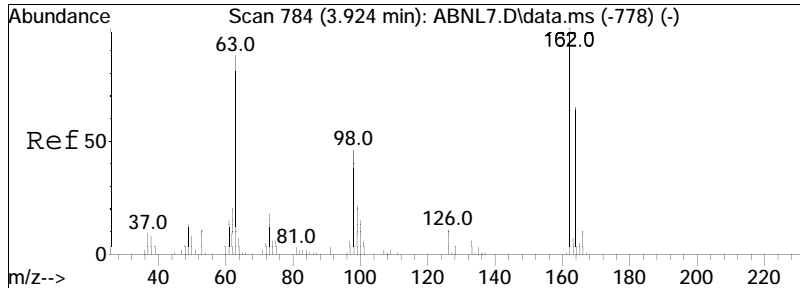




#24
 Bis(2-chloroethoxy)methane
 Concen: 29.94 ug/ml
 RT: 4.002 min Scan# 777
 Delta R.T. 0.006 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

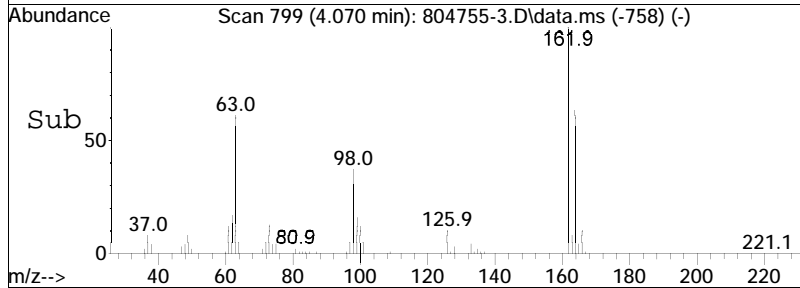
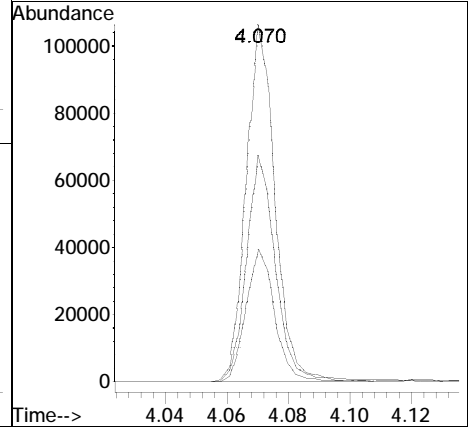
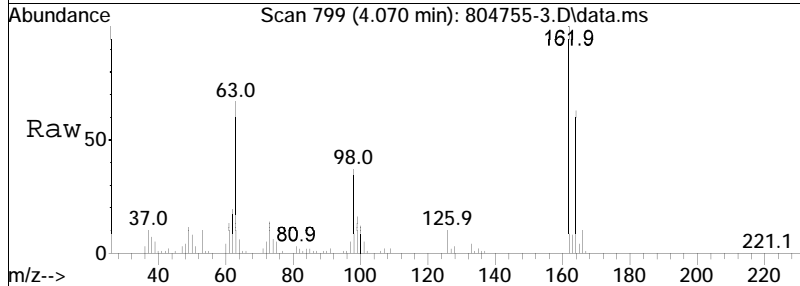
Tgt Ion:	93	Resp:	95273
Ion Ratio	Lower	Upper	
93	100		
95	33.2	26.1	39.1
123	9.8	9.8	14.8#

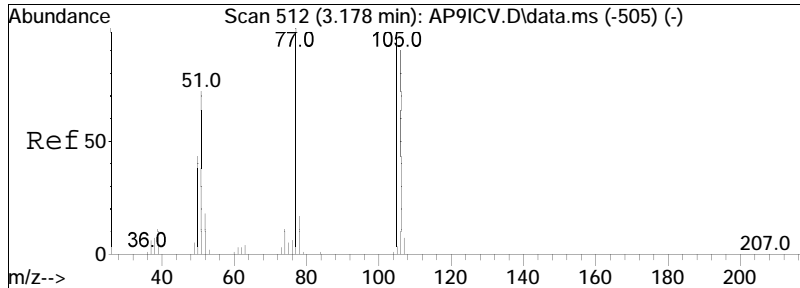




#25
 2,4-Dichlorophenol
 Concen: 30.80 ug/ml
 RT: 4.070 min Scan# 799
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

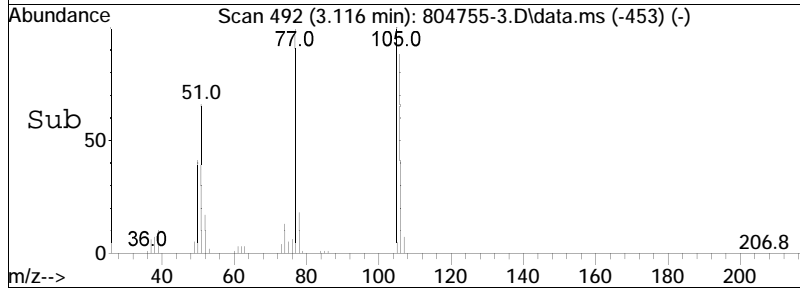
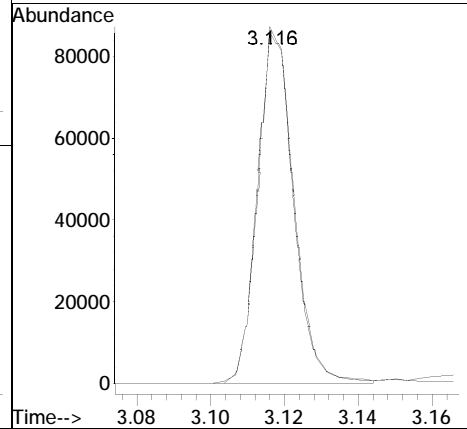
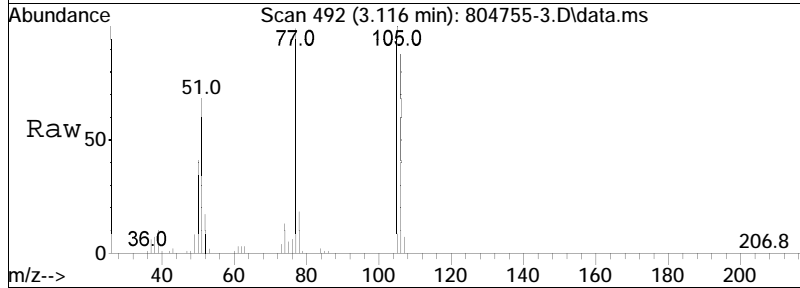
Tgt Ion	Resp	Lower	Upper
162	69189		
162	100		
164	63.2	50.4	75.6
98	37.2	31.6	47.4

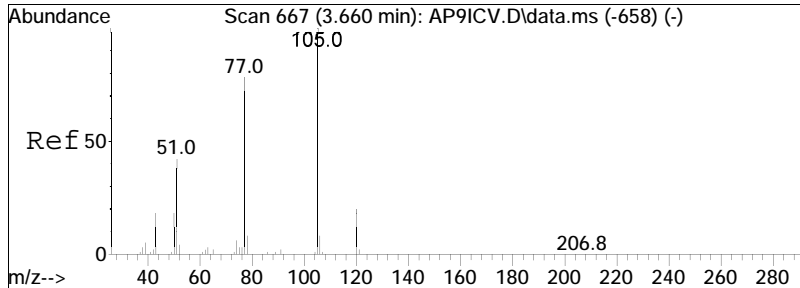




#28
 Benzaldehyde
 Concen: 37.15 ug/ml
 RT: 3.116 min Scan# 492
 Delta R.T. -0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

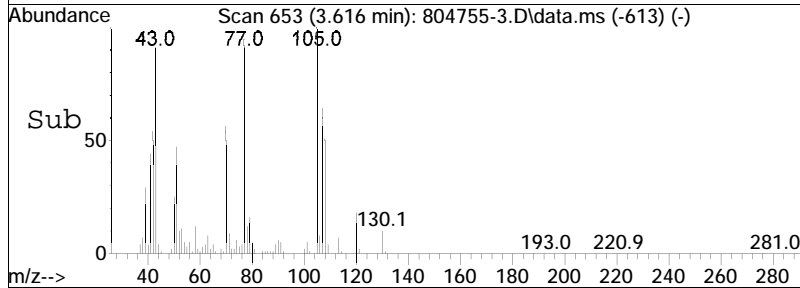
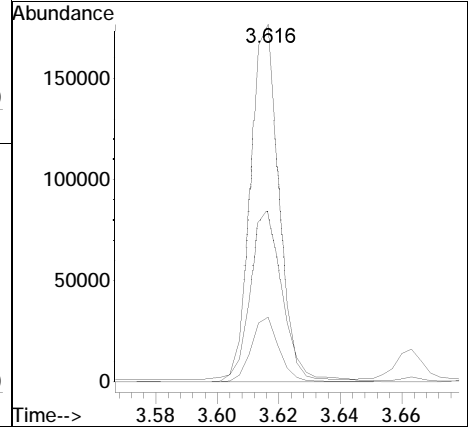
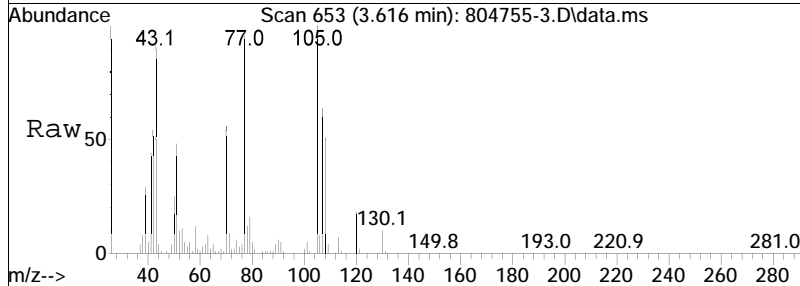
Tgt Ion	Ratio	Lower	Upper
105	100		
77	99.2	72.0	108.0

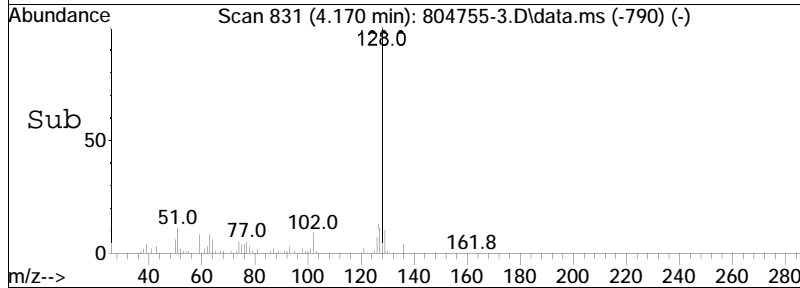
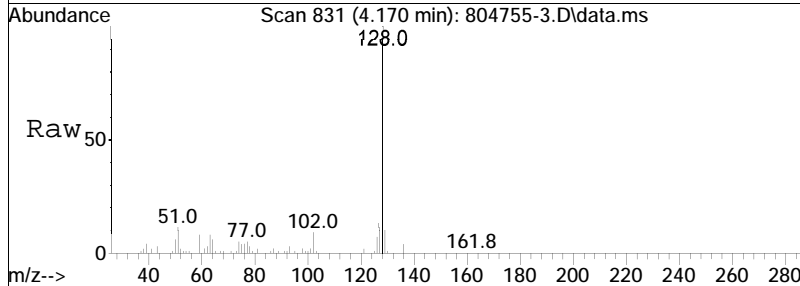
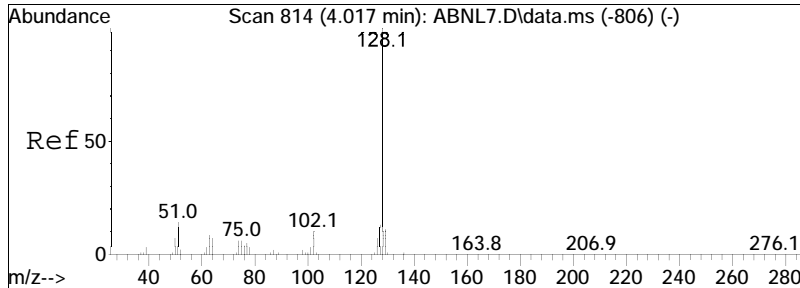




#29
 Acetophenone
 Concen: 31.70 ug/ml
 RT: 3.616 min Scan# 653
 Delta R.T. -0.000 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

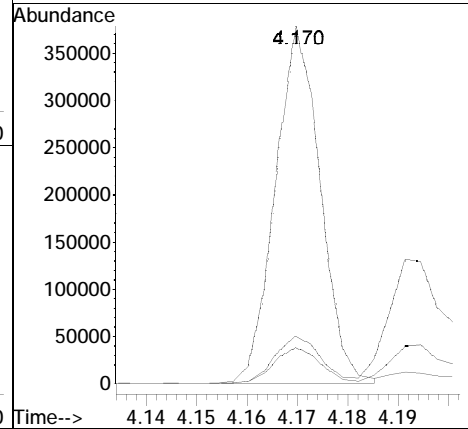
Tgt Ion	Ratio	Lower	Upper
105	100		
120	17.7	18.0	27.0#
51	51.8	23.8	35.6#

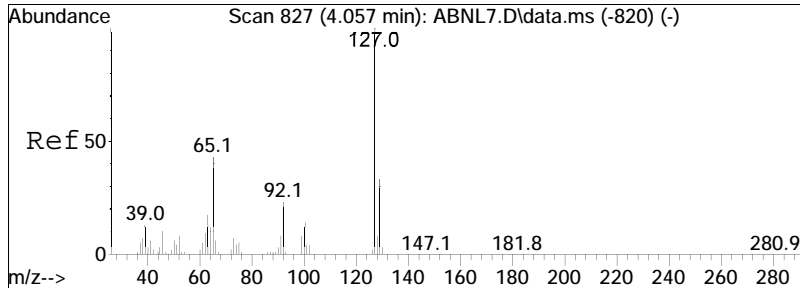




#36
 Naphthalene
 Concen: 28.38 ug/ml
 RT: 4.170 min Scan# 831
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

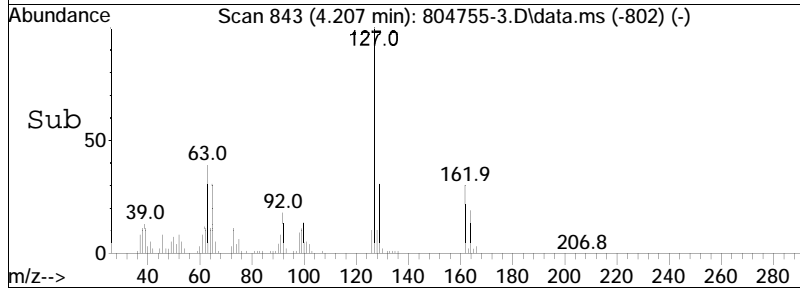
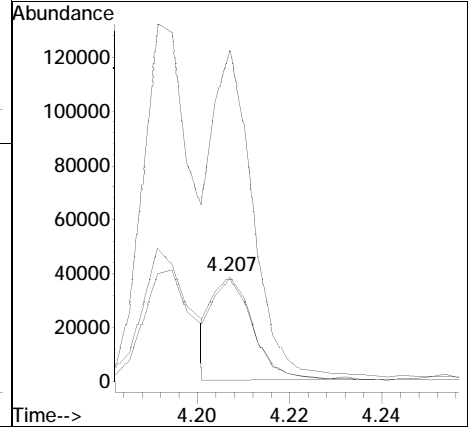
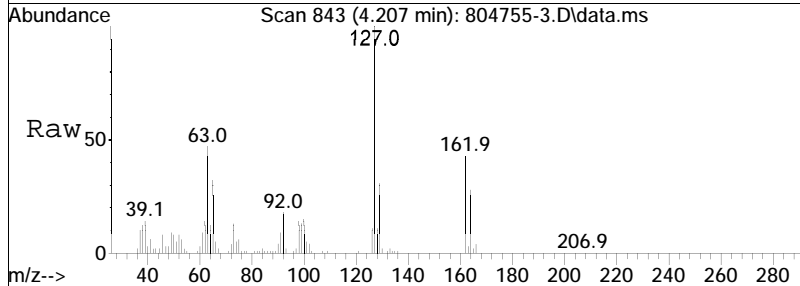
Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.7	13.1
127	13.9	10.7	16.1

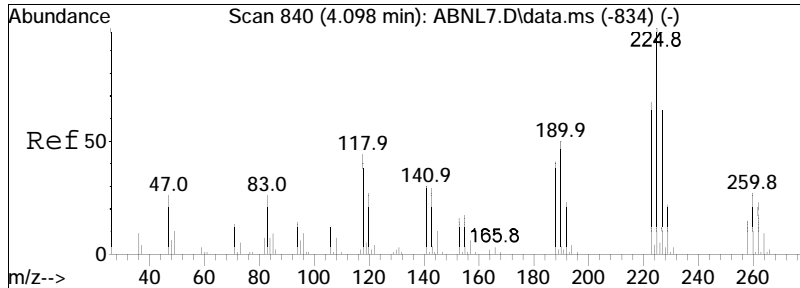




#38
 4-Chloroaniline
 Concen: 23.37 ug/ml
 RT: 4.207 min Scan# 843
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

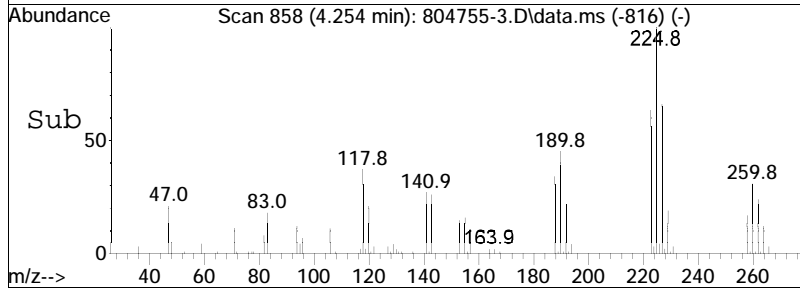
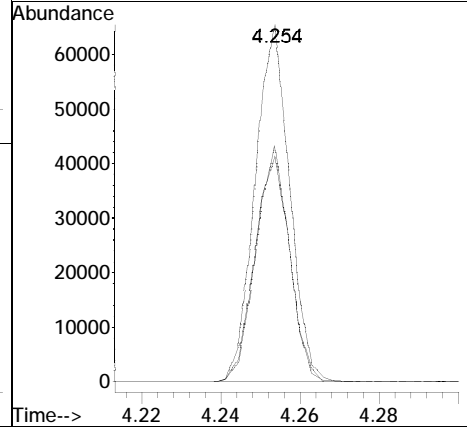
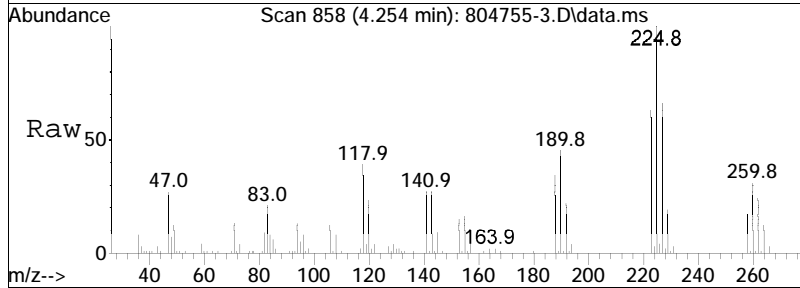
Tgt Ion:	Resp:	Lower	Upper
65	100		
127	315.0	233.2	349.8
129	101.0	74.6	111.8

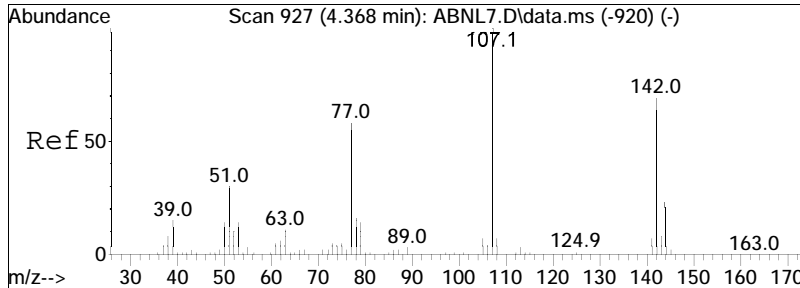




#39
 Hexachlorobutadiene
 Concen: 24.11 ug/ml
 RT: 4.254 min Scan# 858
 Delta R.T. 0.006 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

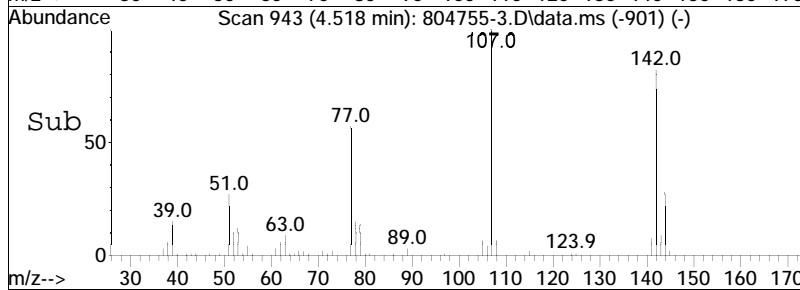
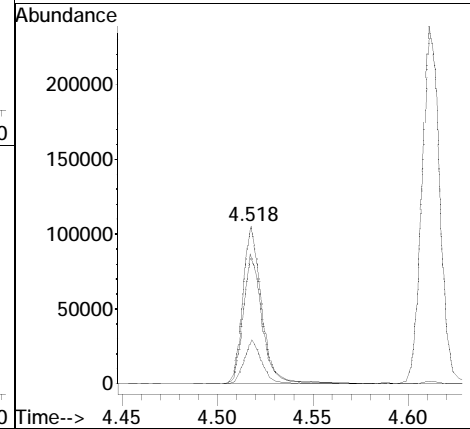
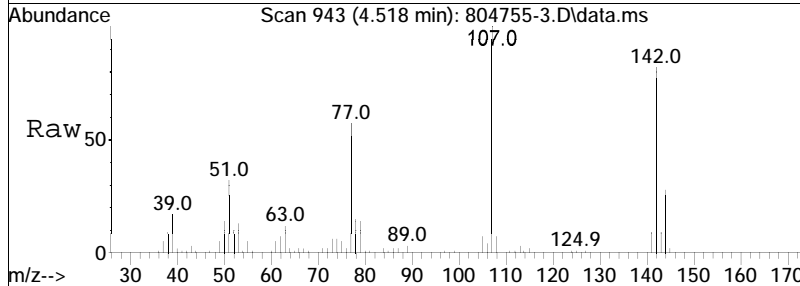
Tgt Ion	Resp	Lower	Upper
225	39525		
225	100		
223	64.3	49.4	74.0
227	64.2	50.8	76.2

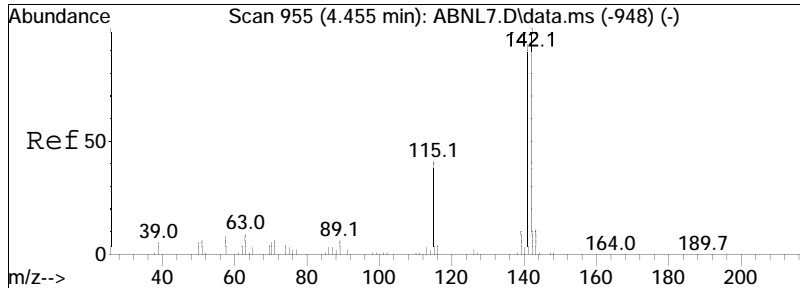




#40
 p-Chloro-m-cresol
 Concen: 33.31 ug/ml
 RT: 4.518 min Scan# 943
 Delta R.T. 0.006 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

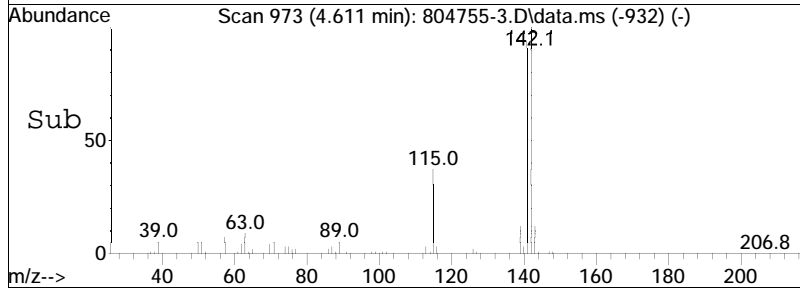
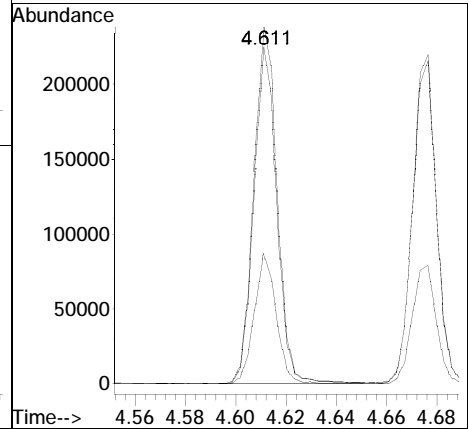
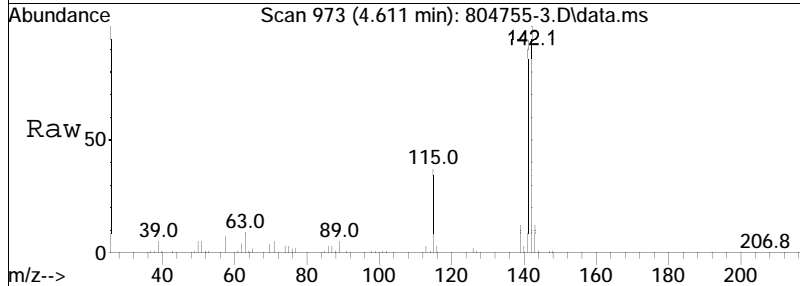
Tgt Ion	Resp	Lower	Upper
107	100		
144	26.2	19.6	29.4
142	81.0	62.2	93.4

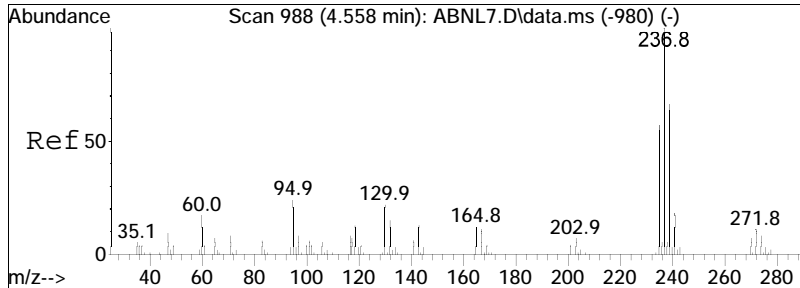




#41
 2-Methylnaphthalene
 Concen: 29.13 ug/ml
 RT: 4.611 min Scan# 973
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

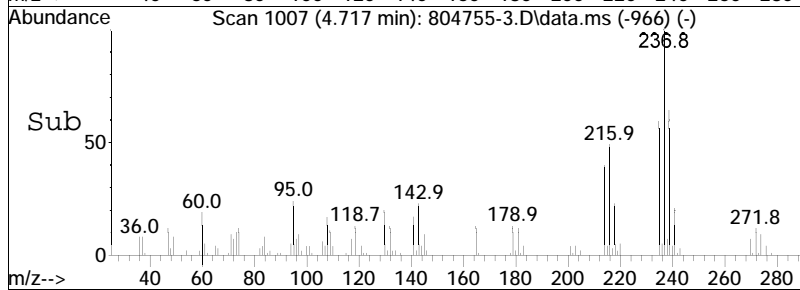
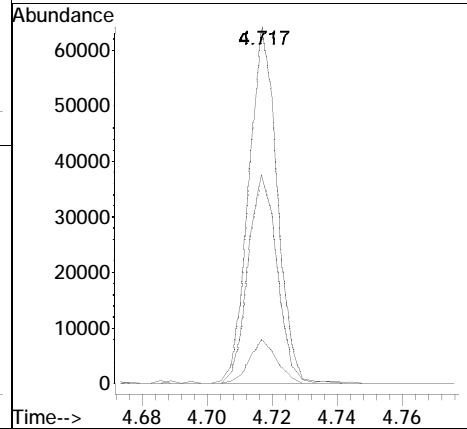
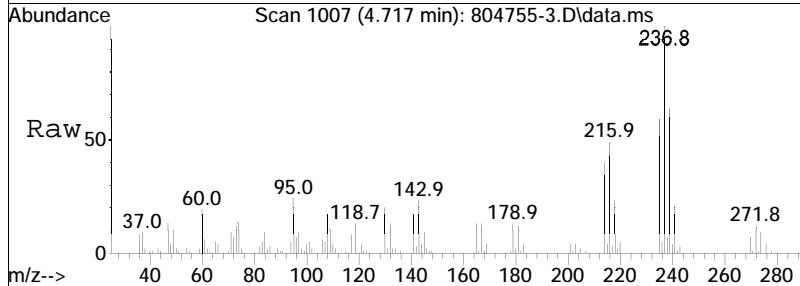
Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.2	71.8	107.8
115	34.4	29.1	43.7

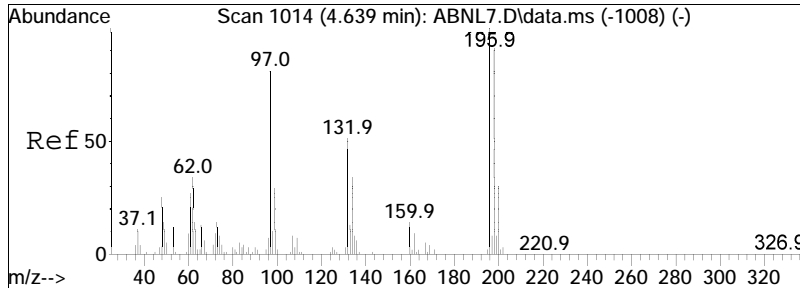




#43
 Hexachlorocyclopentadiene
 Concen: 18.36 ug/ml
 RT: 4.717 min Scan# 1007
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

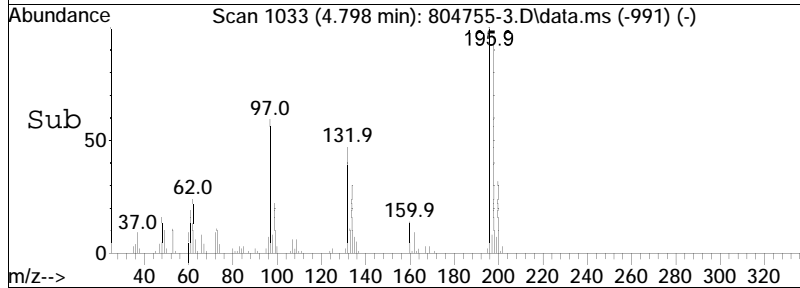
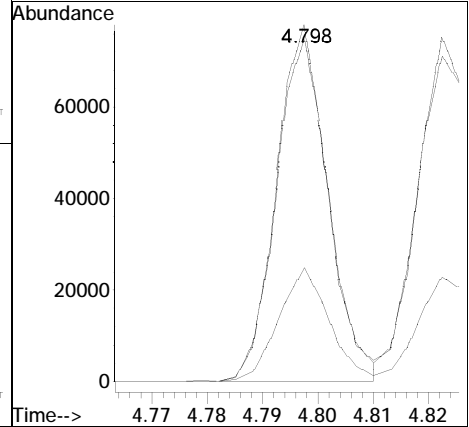
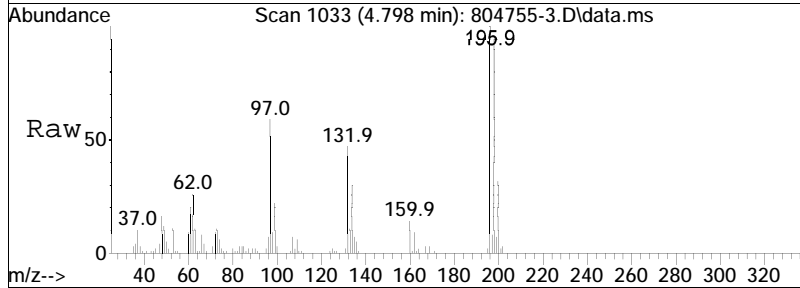
Tgt Ion	Resp	Lower	Upper
237	100		
235	59.8	47.8	71.6
272	11.9	10.4	15.6

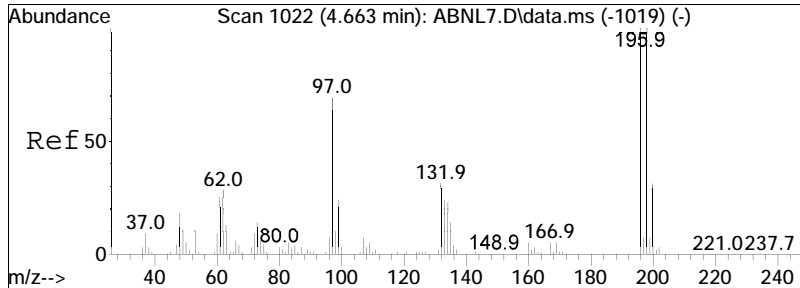




#44
 2,4,6-Trichlorophenol
 Concen: 30.26 ug/ml
 RT: 4.798 min Scan# 1033
 Delta R.T. 0.006 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

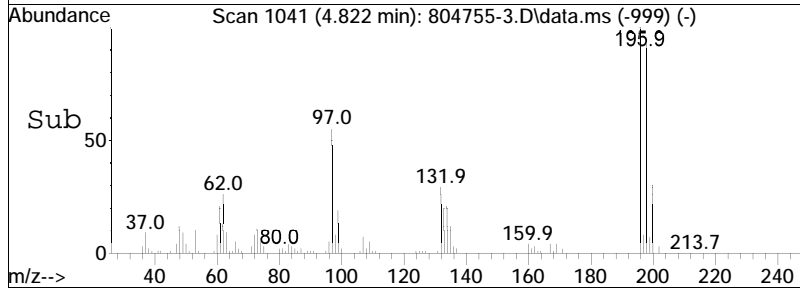
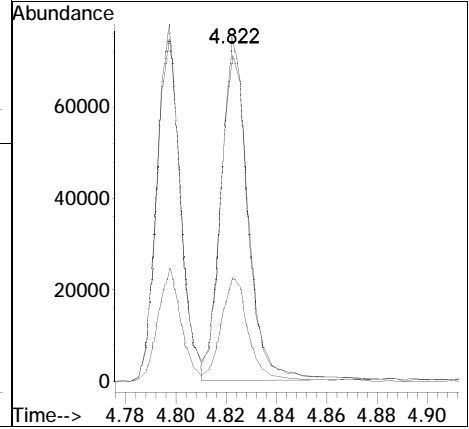
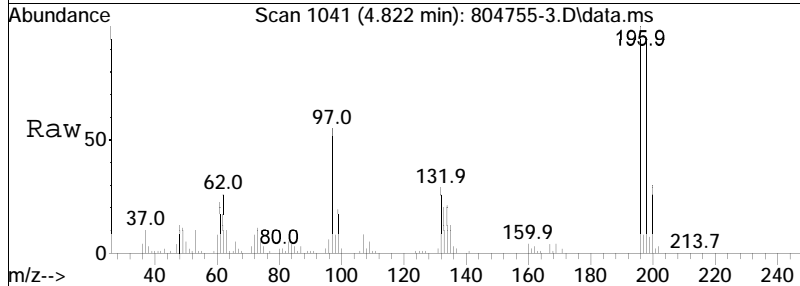
Tgt Ion	Resp	Lower	Upper
196	50176		
196	100		
198	98.6	81.5	122.3
200	31.7	26.2	39.2

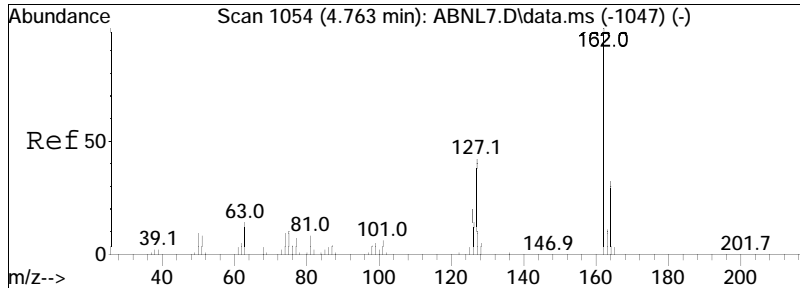




#45
 2,4,5-Trichlorophenol
 Concen: 30.51 ug/ml
 RT: 4.822 min Scan# 1041
 Delta R.T. 0.006 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

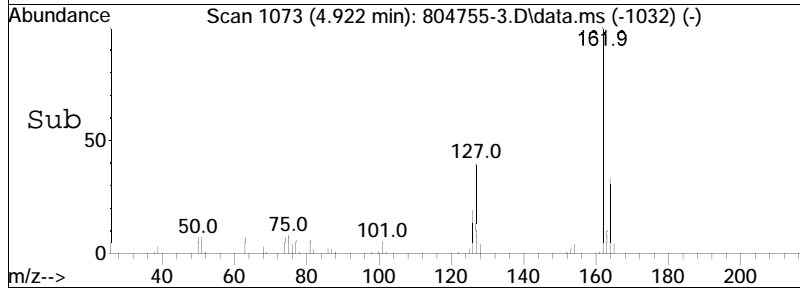
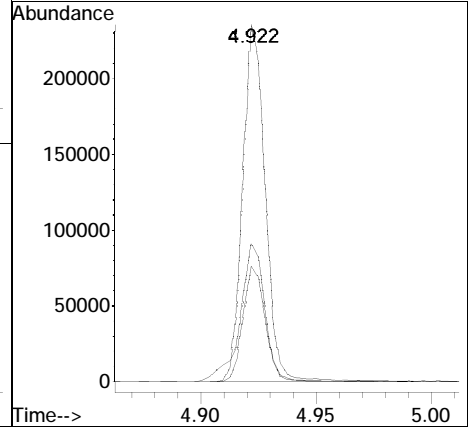
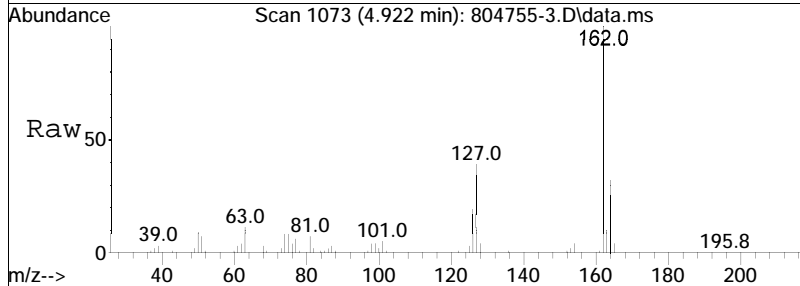
Tgt Ion	Resp	Lower	Upper
196	100		
200	30.2	25.5	38.3
198	97.7	79.2	118.8

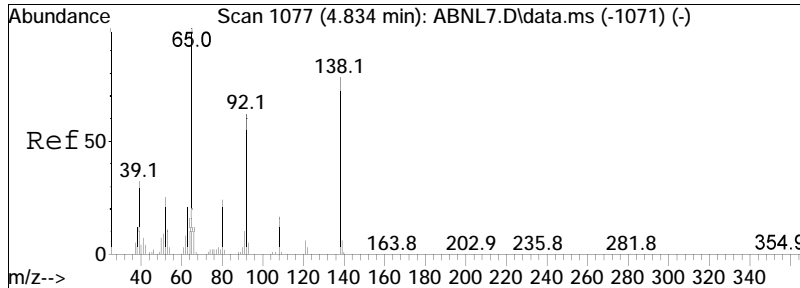




#47
 2-Chloronaphthalene
 Concen: 29.42 ug/ml
 RT: 4.922 min Scan# 1073
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

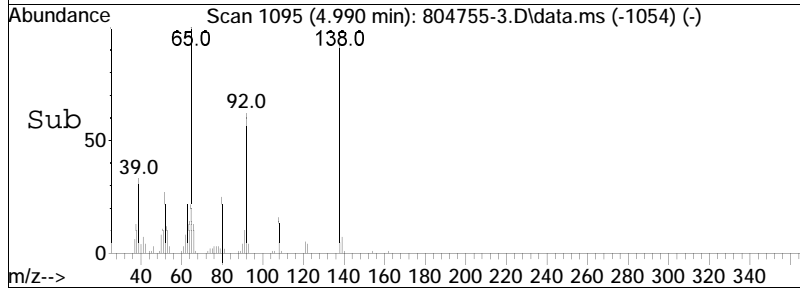
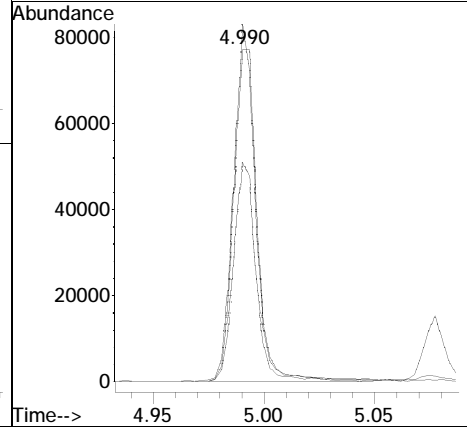
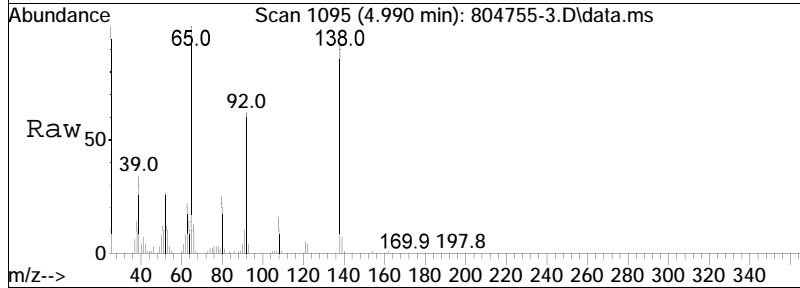
Tgt Ion	Resp	Lower	Upper
162	157943		
127	42.9	33.6	50.4
164	32.2	25.8	38.8

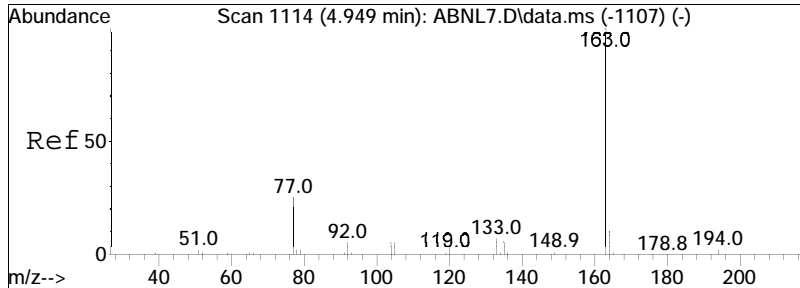




#48
 2-Nitroaniline
 Concen: 35.91 ug/ml
 RT: 4.990 min Scan# 1095
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

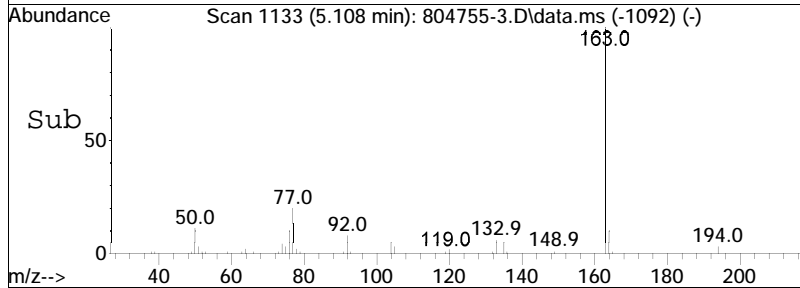
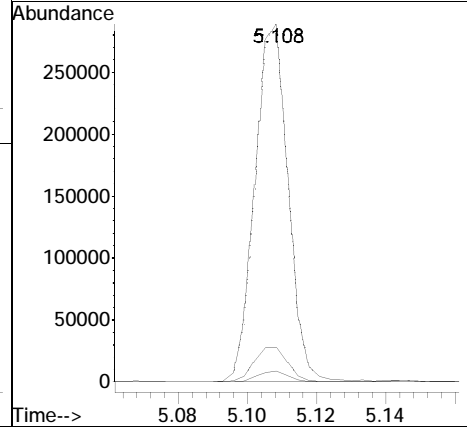
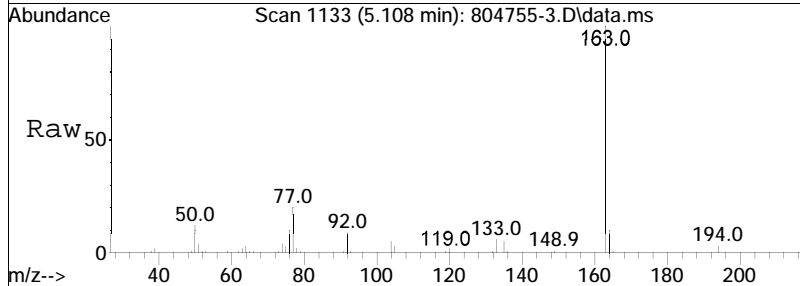
Tgt Ion	Resp	Lower	Upper
138	100		
92	62.7	54.2	81.2
65	100.4	82.8	124.2

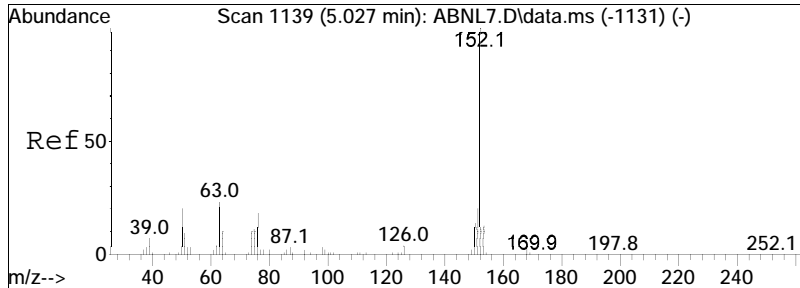




#51
 Dimethyl phthalate
 Concen: 30.30 ug/ml
 RT: 5.108 min Scan# 1133
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

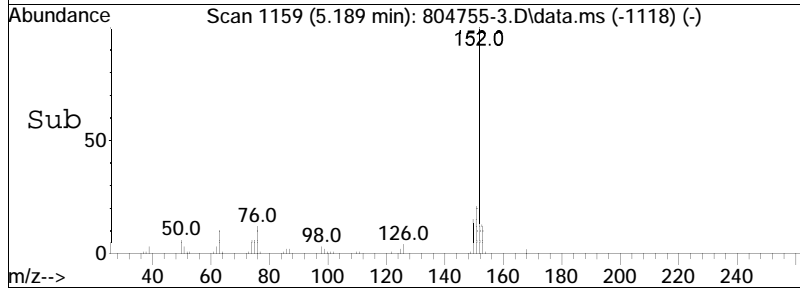
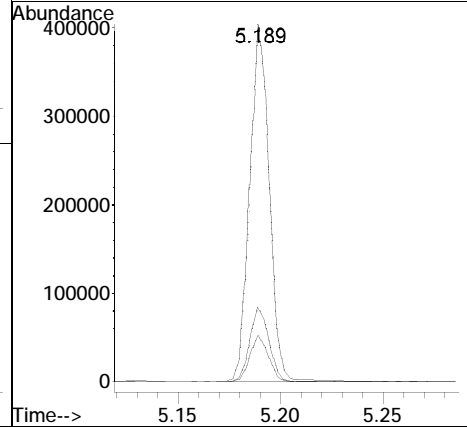
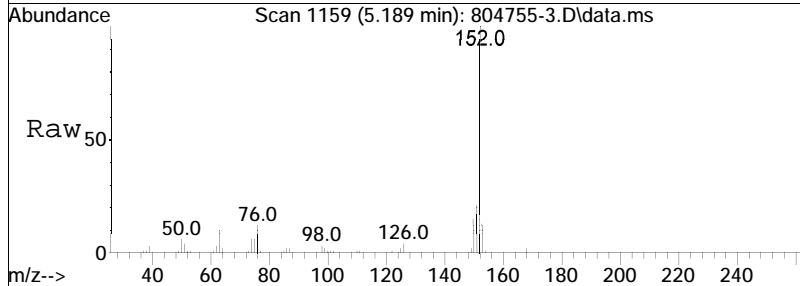
Tgt Ion	Ratio	Lower	Upper
163	100		
194	2.8	2.6	4.0
164	10.0	8.2	12.4

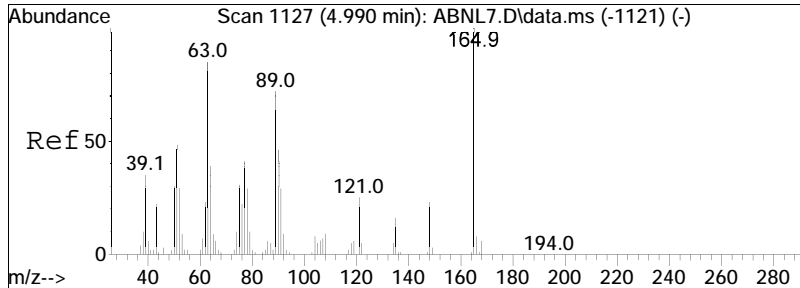




#52
 Acenaphthylene
 Concen: 31.56 ug/ml
 RT: 5.189 min Scan# 1159
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

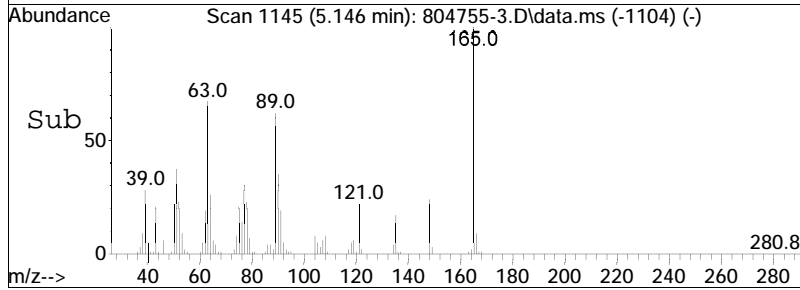
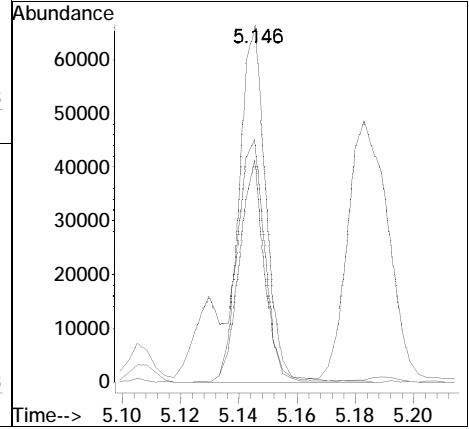
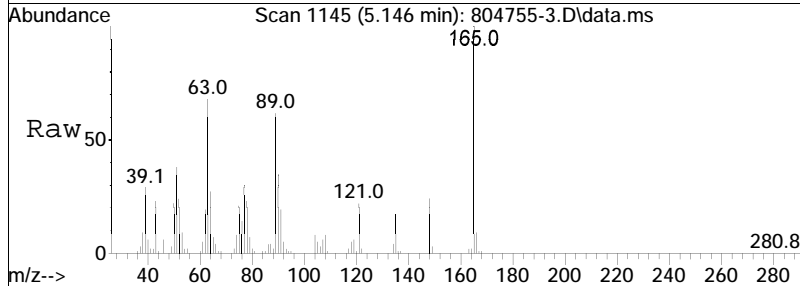
Tgt Ion	Resp	Lower	Upper
152	100		
151	20.8	16.4	24.6
153	12.6	11.0	16.6

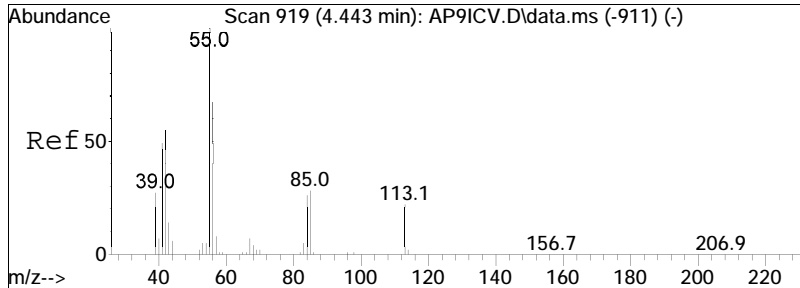




#53
 2,6-Dinitrotoluene
 Concen: 33.34 ug/ml
 RT: 5.146 min Scan# 1145
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

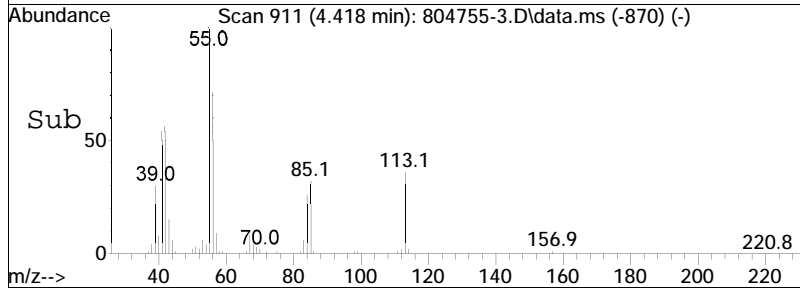
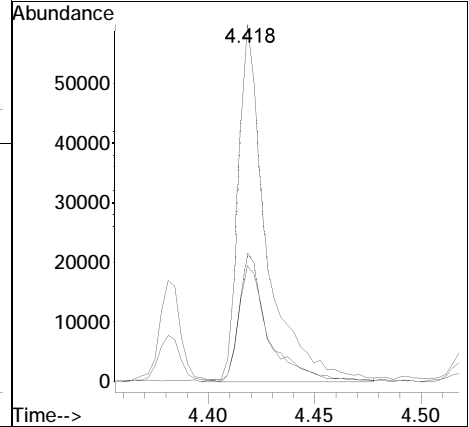
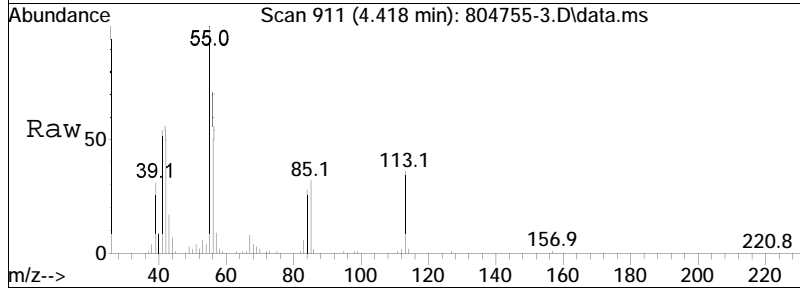
Tgt Ion	Resp	Lower	Upper
165	100		
89	59.2	50.4	75.6
63	68.5	56.9	85.3

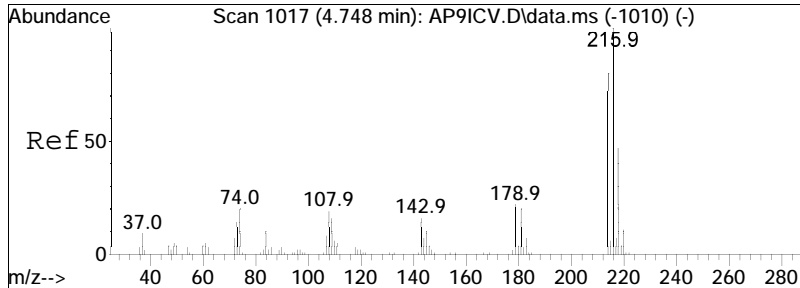




#60
 Caprolactam
 Concen: 41.89 ug/ml
 RT: 4.418 min Scan# 911
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

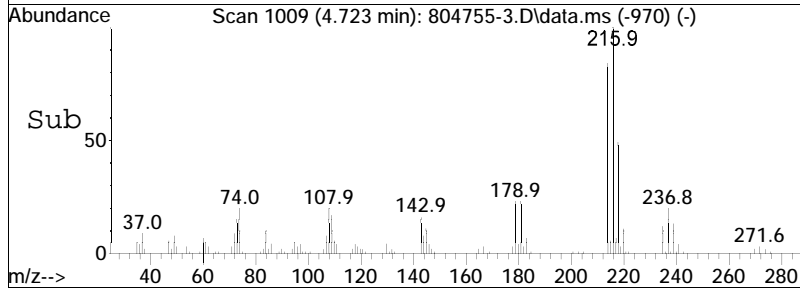
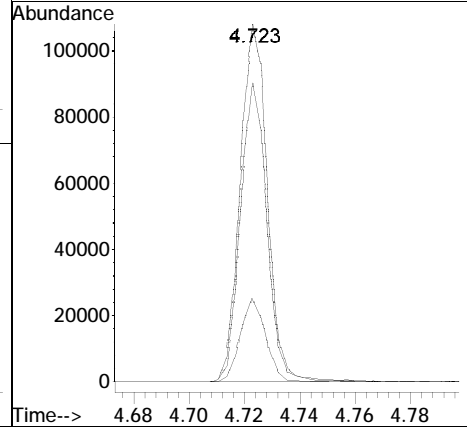
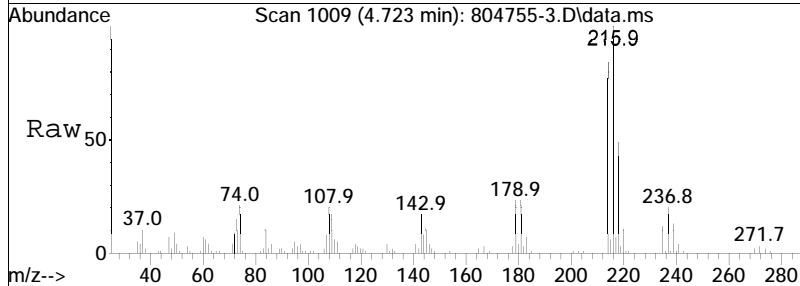
Tgt Ion	Resp	Lower	Upper
55	100		
85	34.0	32.6	48.8
113	37.3	44.6	66.8#

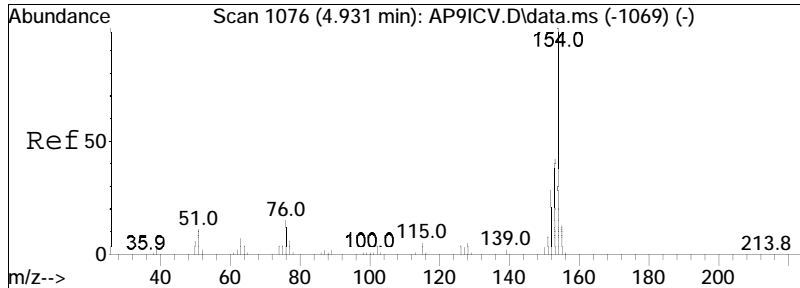




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 24.95 ug/ml
 RT: 4.723 min Scan# 1009
 Delta R.T. -0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

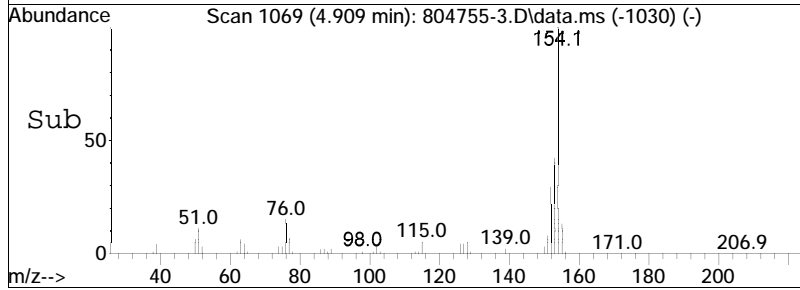
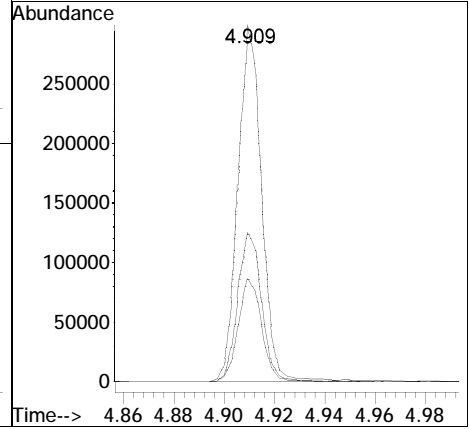
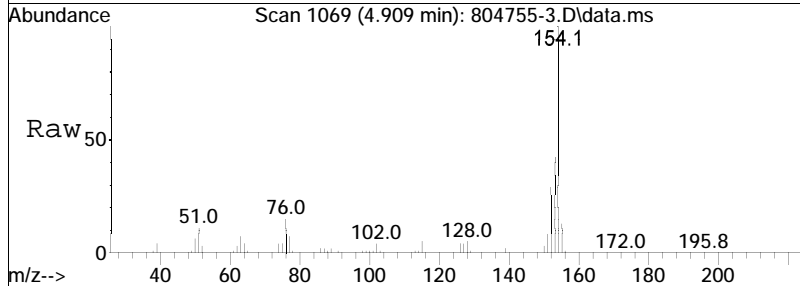
Tgt Ion	Ratio	Lower	Upper
216	100		
214	81.7	63.0	94.6
179	22.1	17.4	26.2

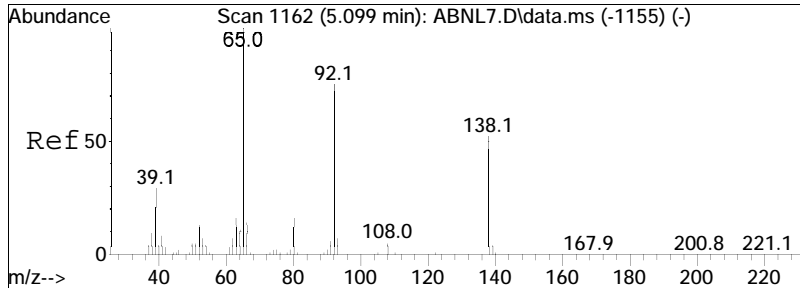




#62
 Biphenyl
 Concen: 29.10 ug/ml
 RT: 4.909 min Scan# 1069
 Delta R.T. -0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

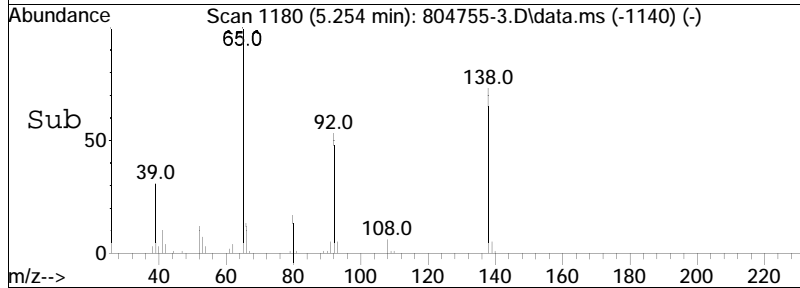
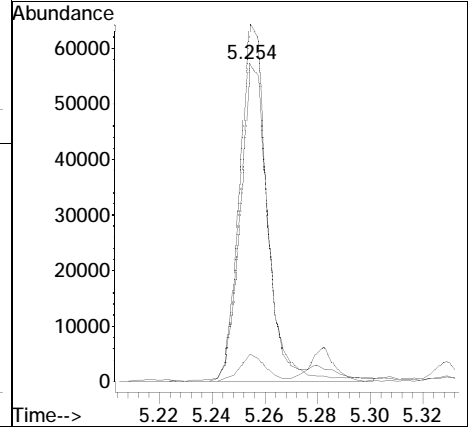
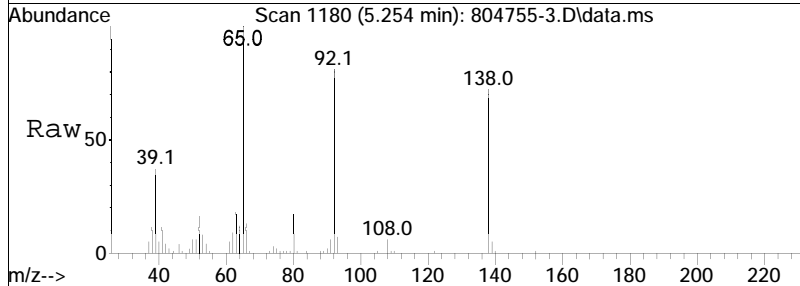
Tgt Ion	Resp	Lower	Upper
154	100		
153	42.3	33.5	50.3
152	28.8	22.6	34.0

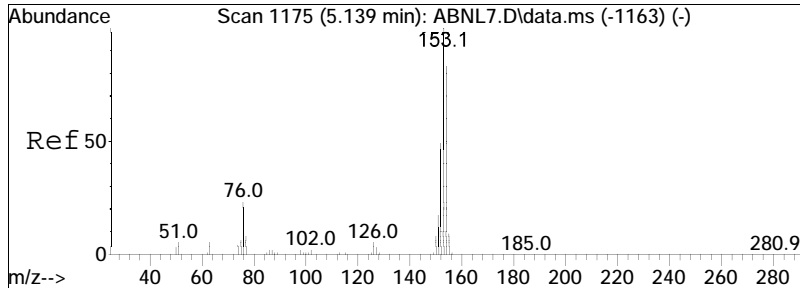




#64
 3-Nitroaniline
 Concen: 29.54 ug/ml
 RT: 5.254 min Scan# 1180
 Delta R.T. -0.000 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

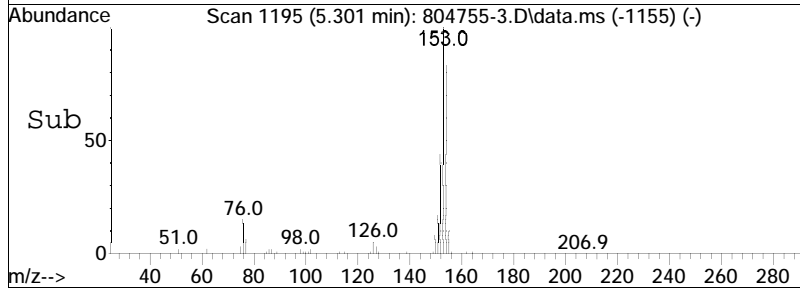
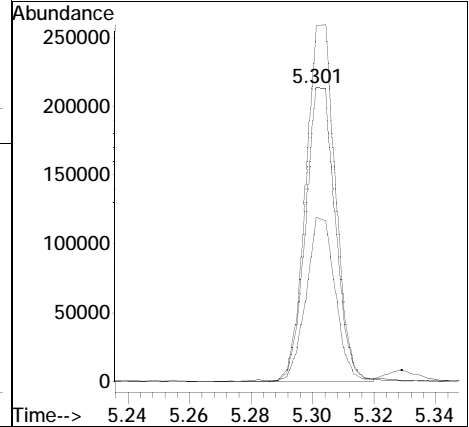
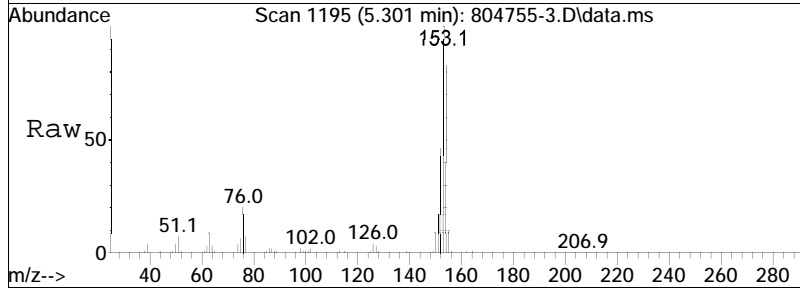
Tgt Ion	Resp	Lower	Upper
138	100		
92	110.3	95.4	143.2
108	8.0	8.6	12.8#

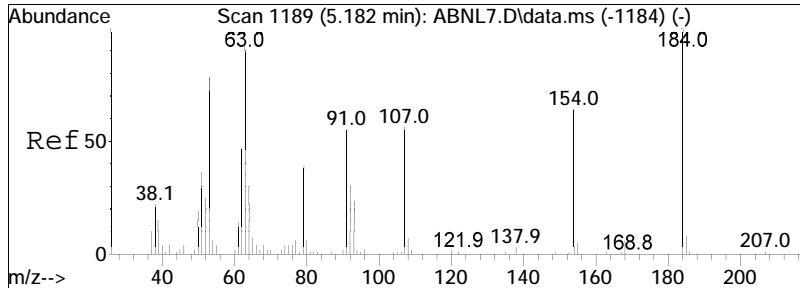




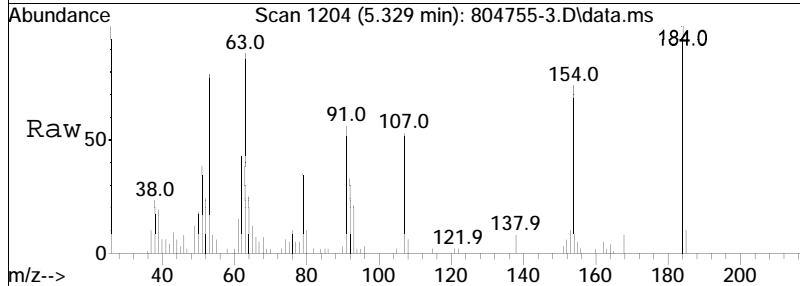
#65
 Acenaphthene
 Concen: 27.58 ug/ml
 RT: 5.301 min Scan# 1195
 Delta R.T. -0.000 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

Tgt Ion	Resp	Lower	Upper
154	143690		
153	121.3	91.3	136.9
152	54.9	41.0	61.4

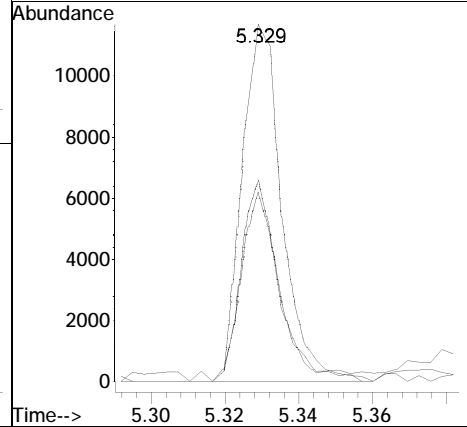
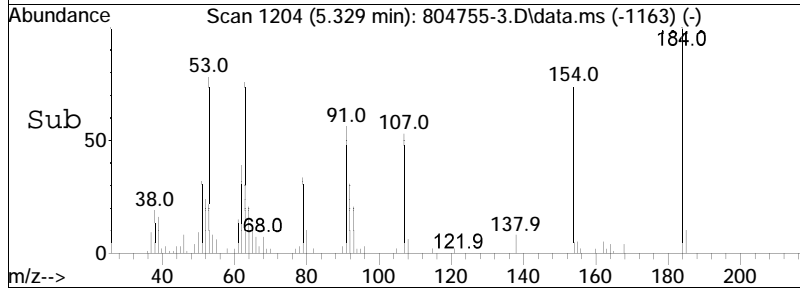


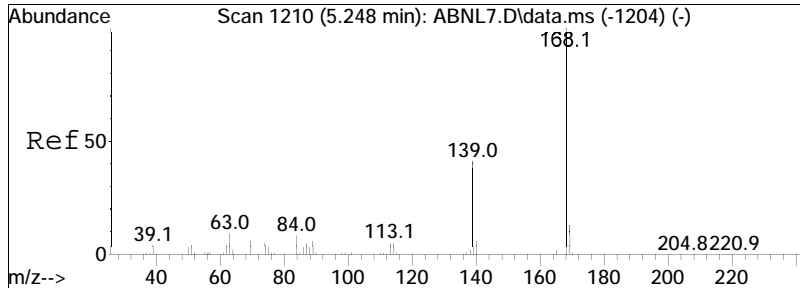


#66
 2,4-Dinitrophenol
 Concen: 12.05 ug/ml
 RT: 5.329 min Scan# 1204
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am



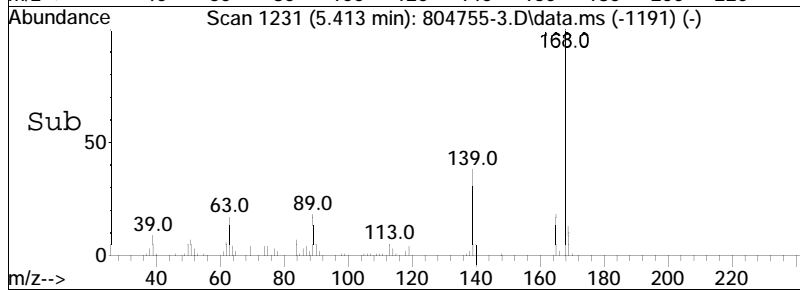
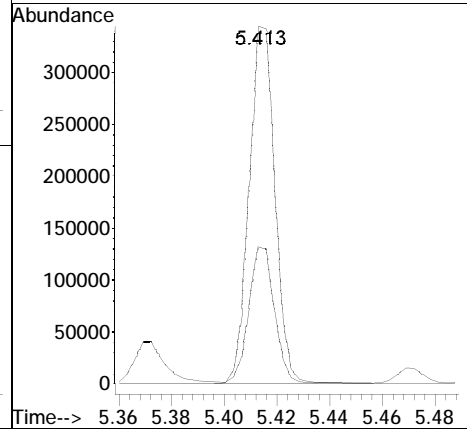
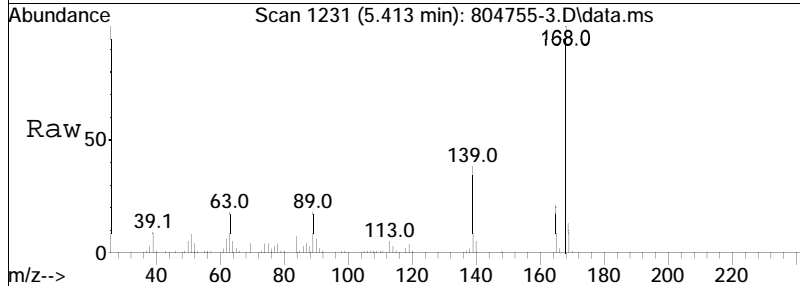
Tgt Ion	Ratio	Lower	Upper
184	100		
107	50.8	41.8	62.6
91	55.8	46.1	69.1

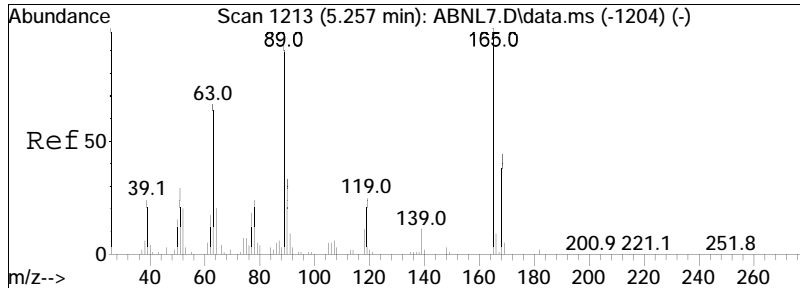




#67
 Dibenzofuran
 Concen: 28.80 ug/ml
 RT: 5.413 min Scan# 1231
 Delta R.T. -0.000 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

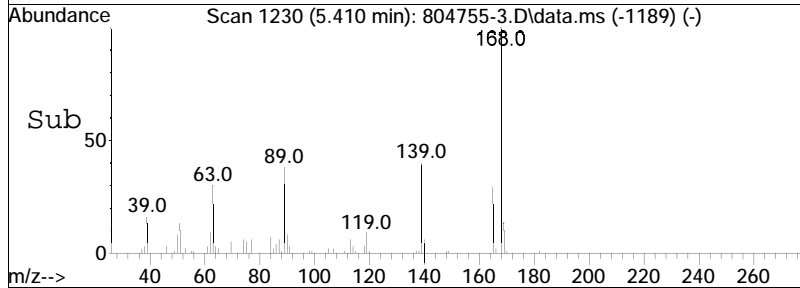
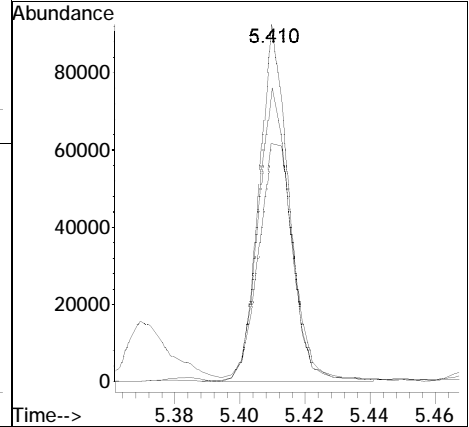
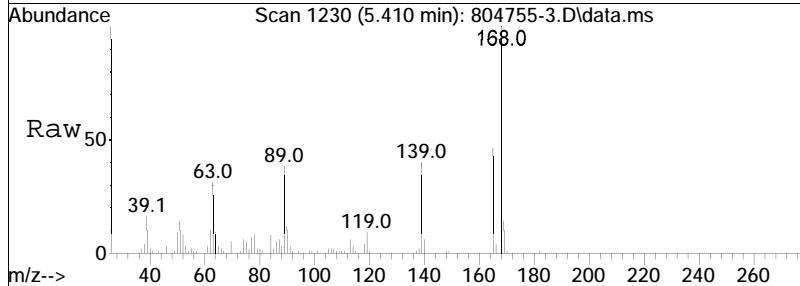
Tgt Ion	Resp	Lower	Upper
168	233499		
168	100		
139	38.5	33.2	49.8

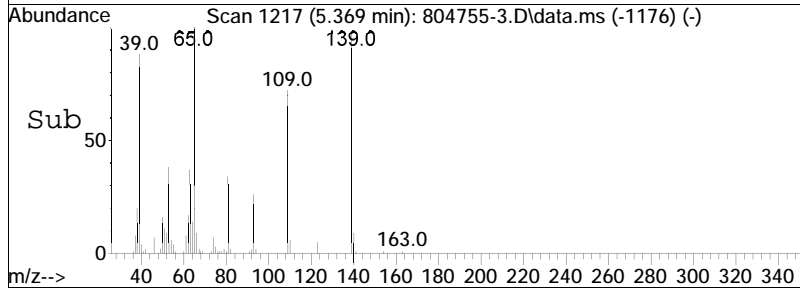
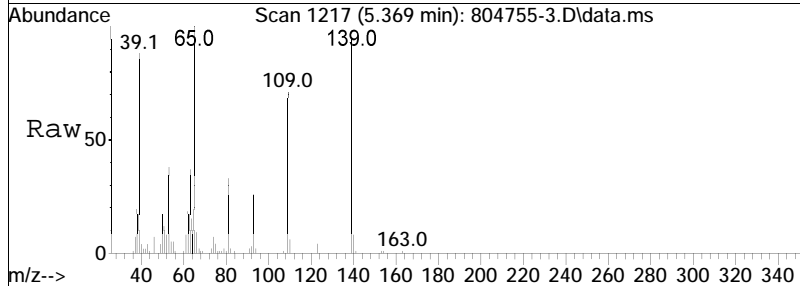
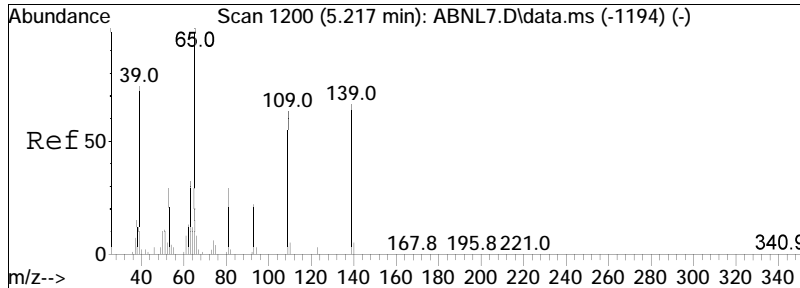




#68
 2,4-Dinitrotoluene
 Concen: 32.36 ug/ml
 RT: 5.410 min Scan# 1230
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

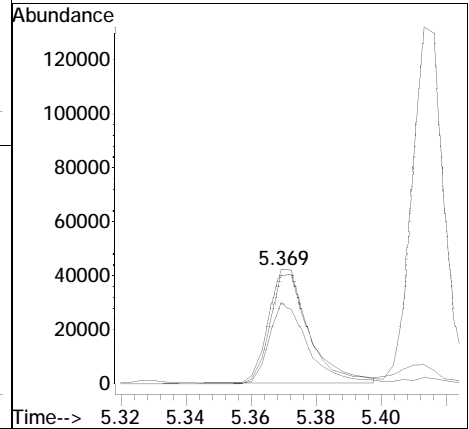
Tgt Ion	Resp	Lower	Upper
165	100		
89	88.8	75.7	113.5
63	78.0	62.6	94.0

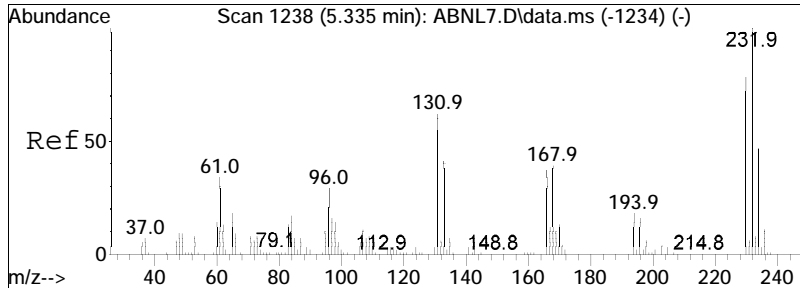




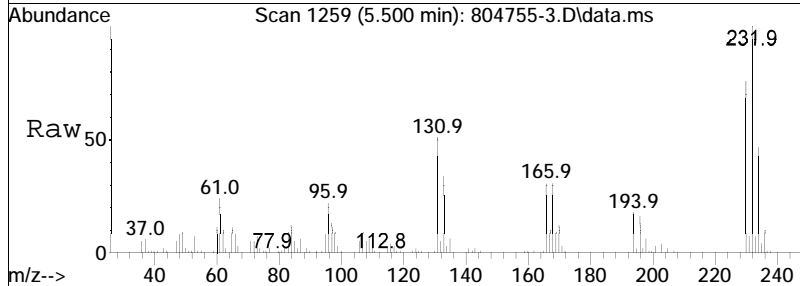
#69
 4-Nitrophenol
 Concen: 31.11 ug/ml
 RT: 5.369 min Scan# 1217
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
65	100		
109	68.3	55.4	83.2
139	93.1	72.9	109.3

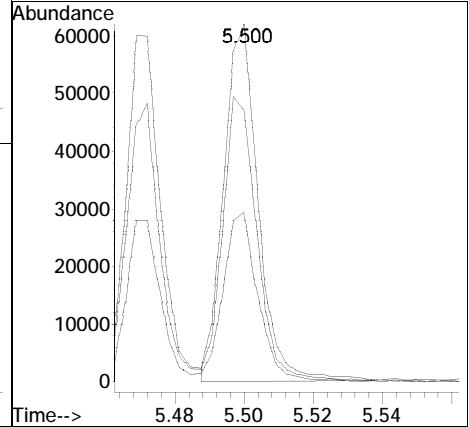
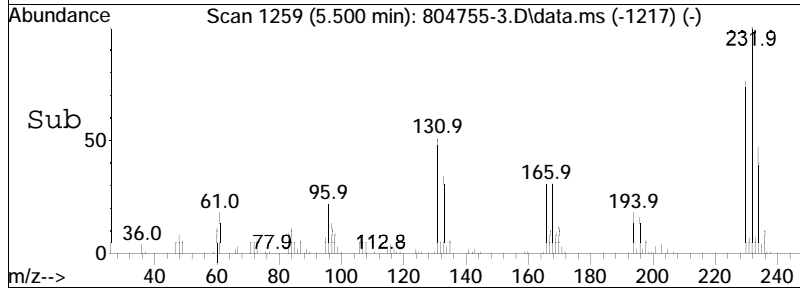


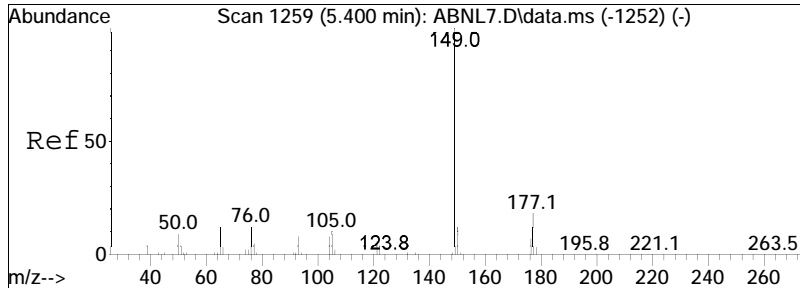


#71
 2,3,4,6-Tetrachlorophenol
 Concen: 25.97 ug/ml
 RT: 5.500 min Scan# 1259
 Delta R.T. 0.006 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am



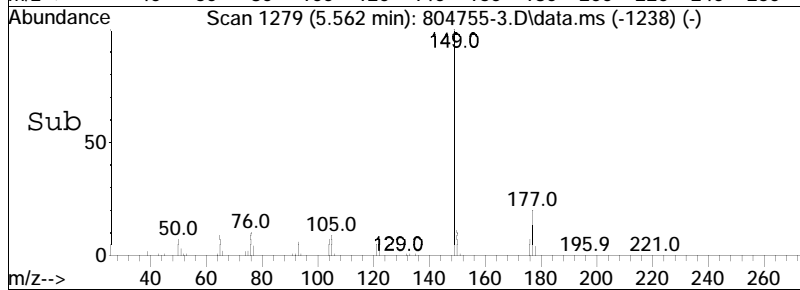
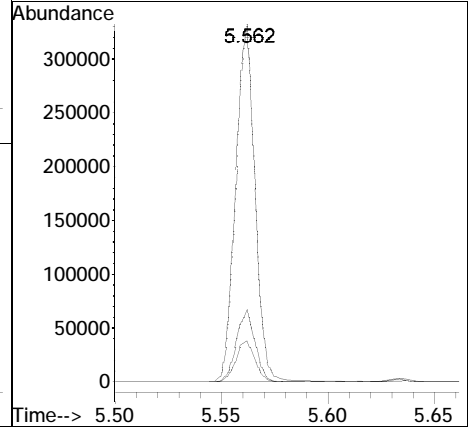
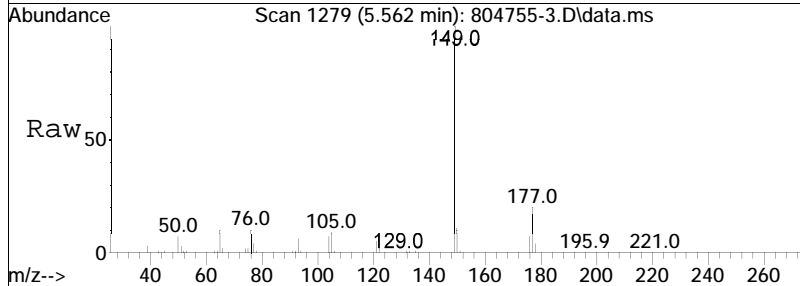
Tgt Ion	Resp	Lower	Upper
232	100		
230	78.7	63.7	95.5
234	48.0	38.4	57.6

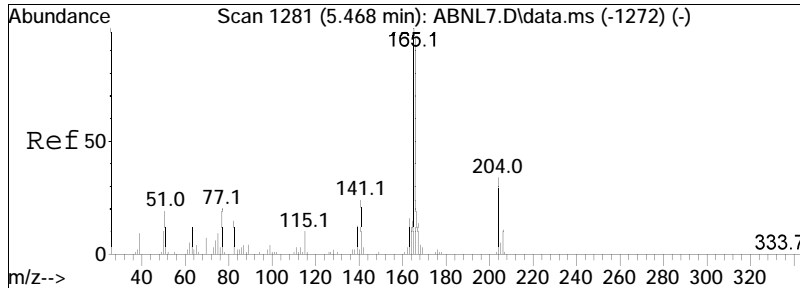




#72
 Diethyl phthalate
 Concen: 31.43 ug/ml
 RT: 5.562 min Scan# 1279
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

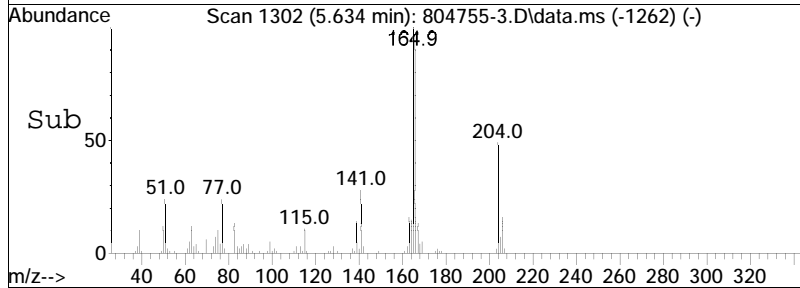
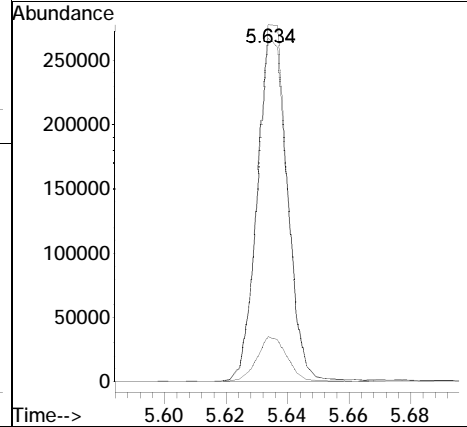
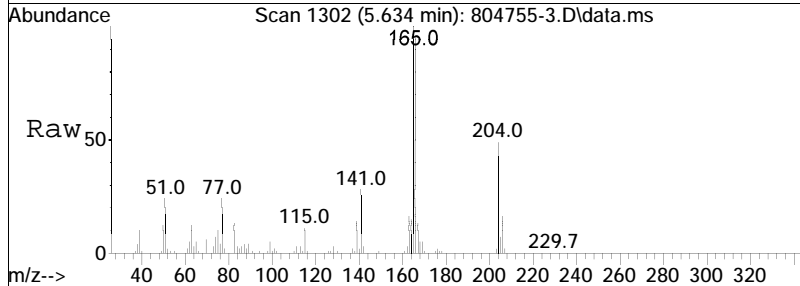
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.7	15.5	23.3
150	11.5	9.5	14.3

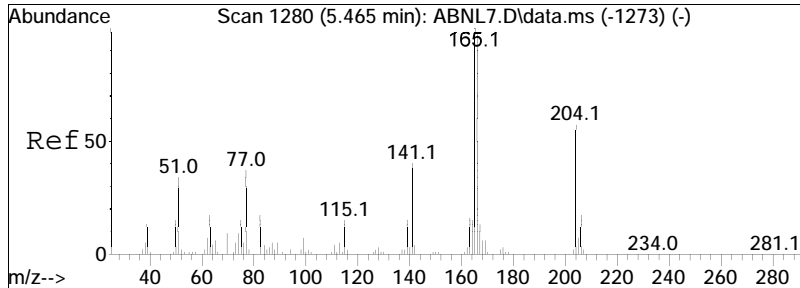




#73
 Fluorene
 Concen: 26.95 ug/ml
 RT: 5.634 min Scan# 1302
 Delta R.T. -0.000 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

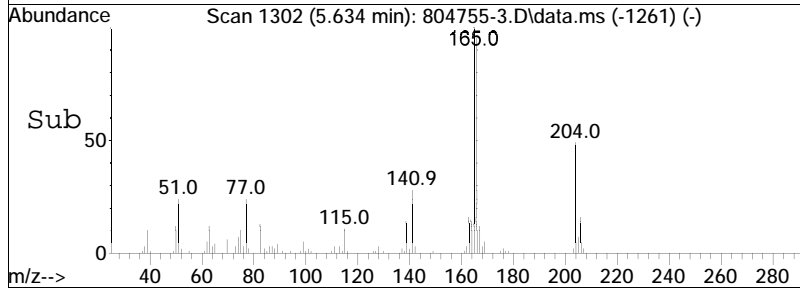
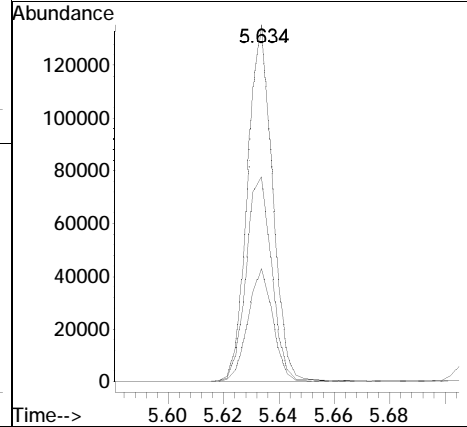
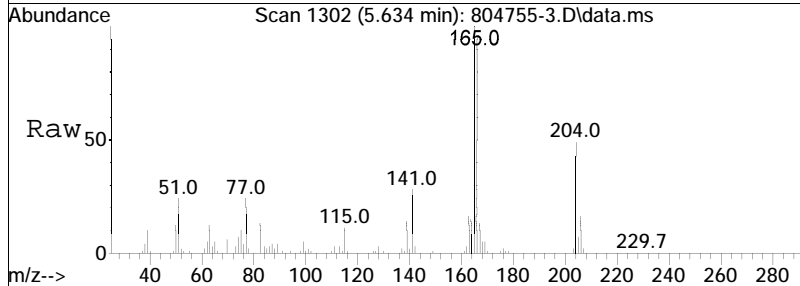
Tgt Ion	Resp	Lower	Upper
166	180683		
166	100		
165	105.0	79.3	118.9
167	13.2	10.6	16.0

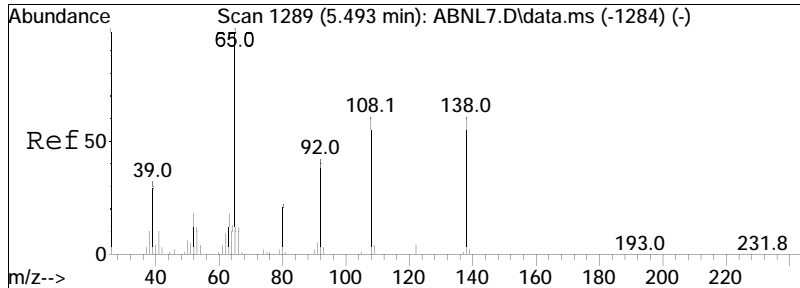




#74
 4-Chlorophenyl phenyl ether
 Concen: 26.20 ug/ml
 RT: 5.634 min Scan# 1302
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

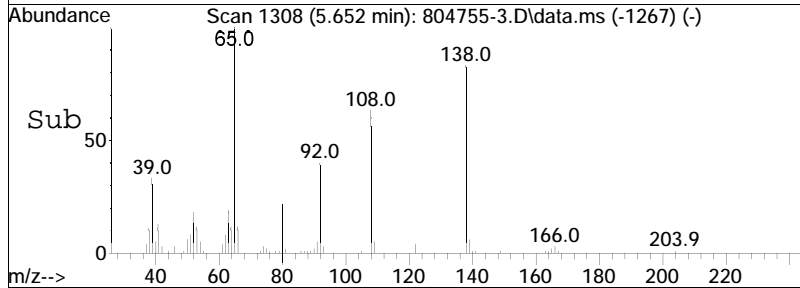
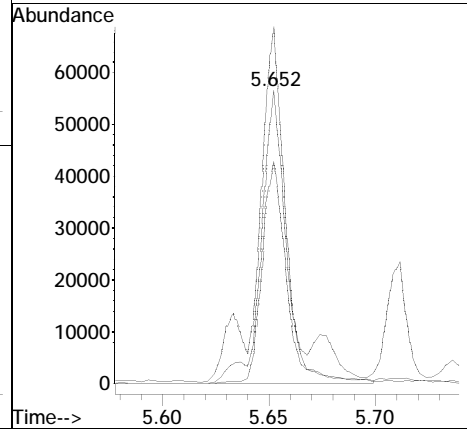
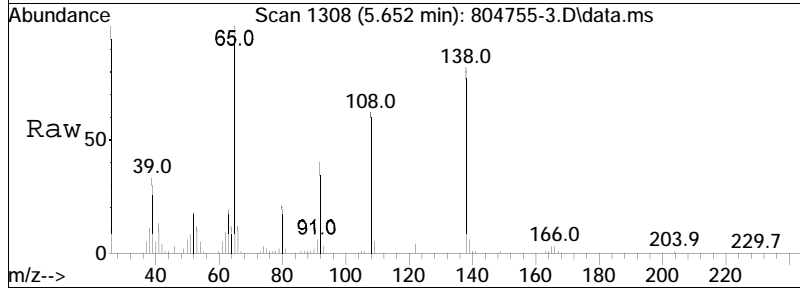
Tgt Ion	Ratio	Lower	Upper
204	100		
206	31.5	26.2	39.4
141	59.4	57.2	85.8

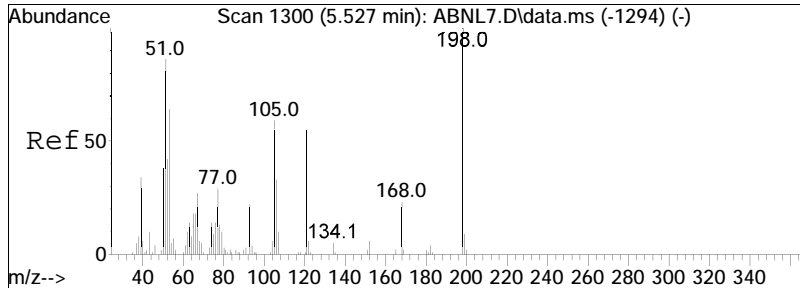




#75
 4-Nitroaniline
 Concen: 30.17 ug/ml
 RT: 5.652 min Scan# 1308
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

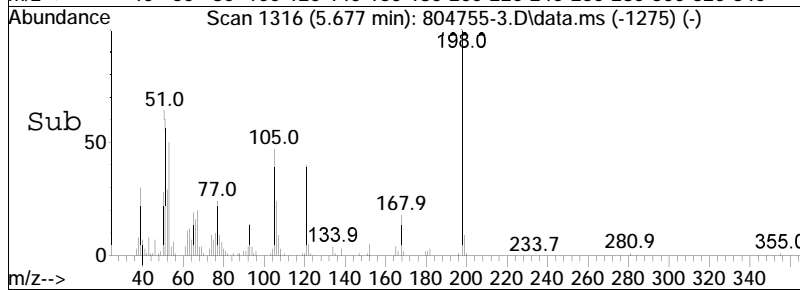
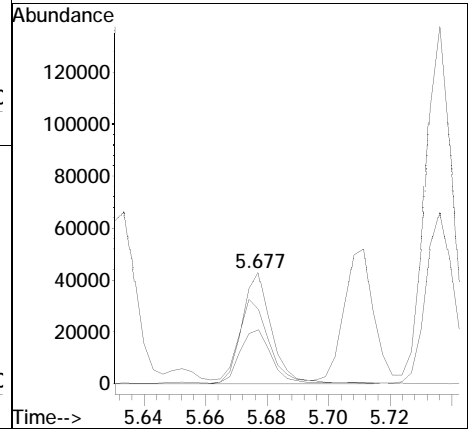
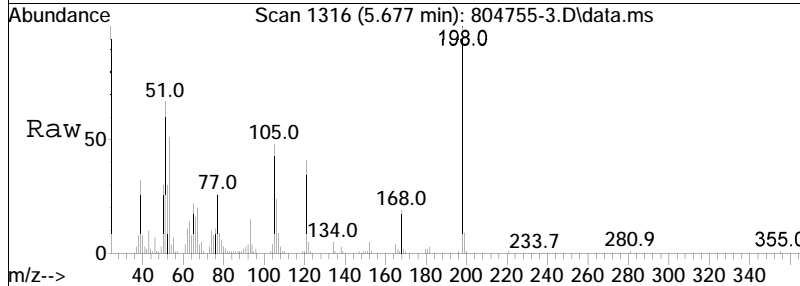
Tgt Ion	Resp	Lower	Upper
138	100		
108	74.1	62.7	94.1
65	109.0	107.8	161.6

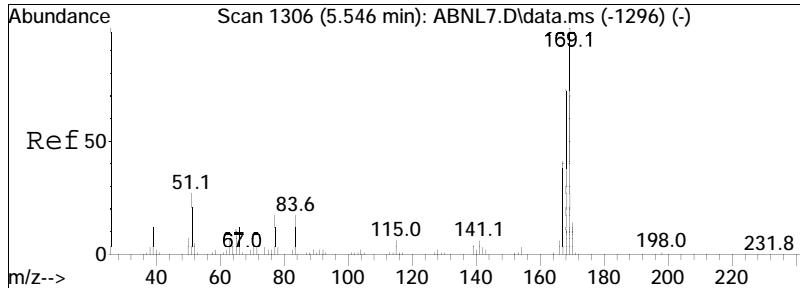




#76
 4,6-Dinitro-o-cresol
 Concen: 27.89 ug/ml
 RT: 5.677 min Scan# 1316
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

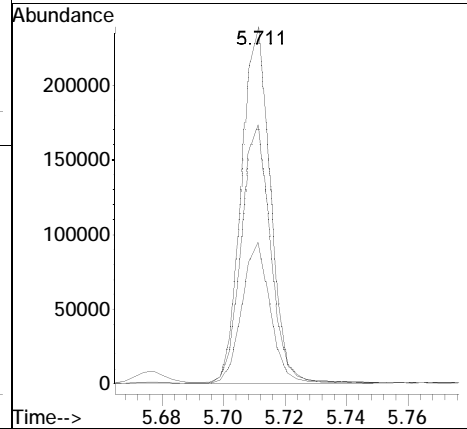
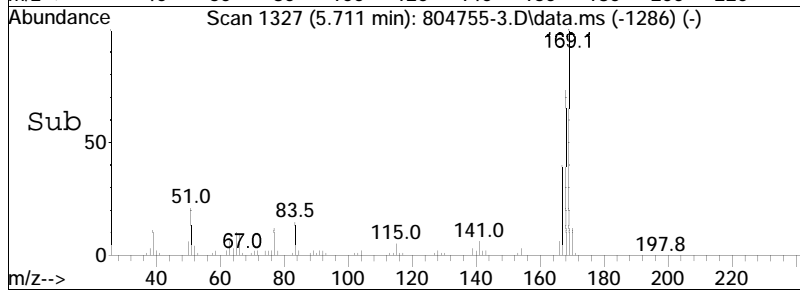
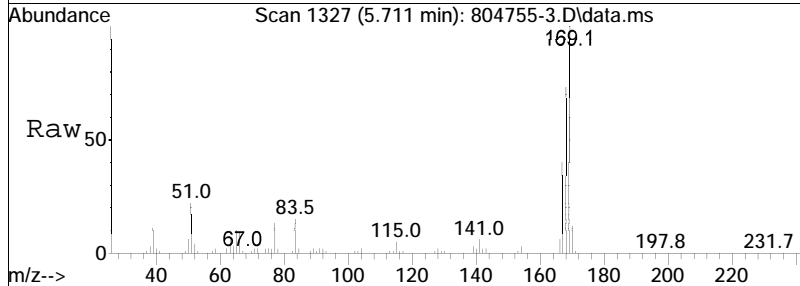
Tgt Ion	Resp	Lower	Upper
198	100		
51	75.2	59.0	88.4
105	50.1	45.0	67.6

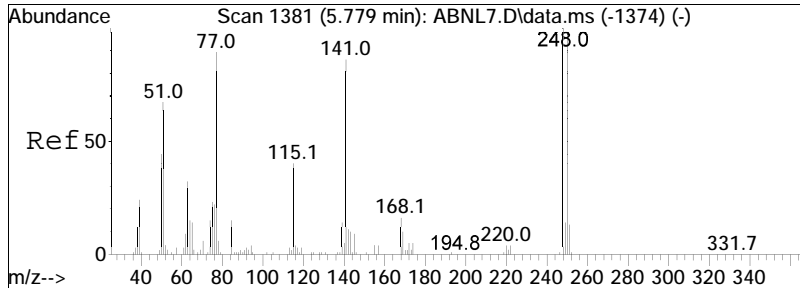




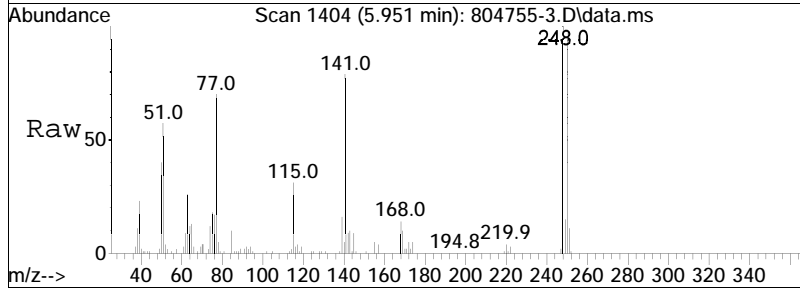
#77
 NDPA/DPA
 Concen: 29.62 ug/ml
 RT: 5.711 min Scan# 1327
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

Tgt Ion	169	Resp	156458
Ion Ratio	Lower	Upper	
169	100		
168	72.9	55.4	83.0
167	39.4	30.3	45.5

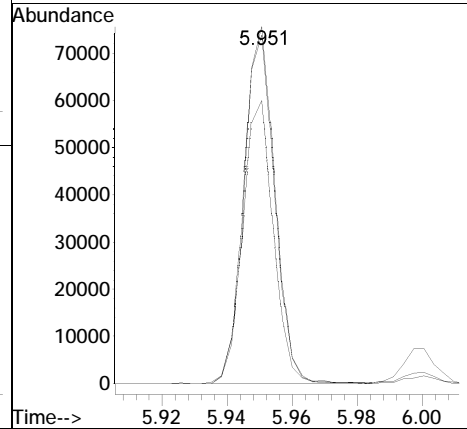
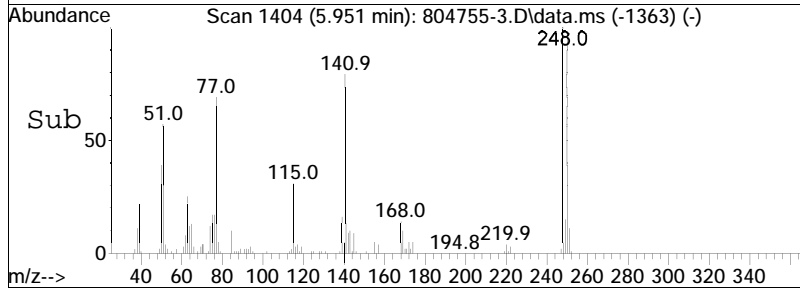


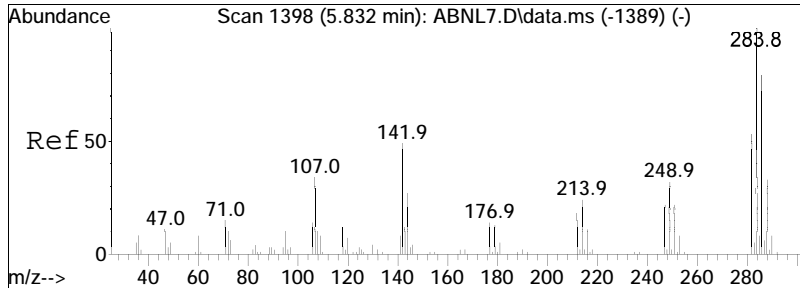


#80
 4-Bromophenyl phenyl ether
 Concen: 25.96 ug/ml
 RT: 5.951 min Scan# 1404
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am



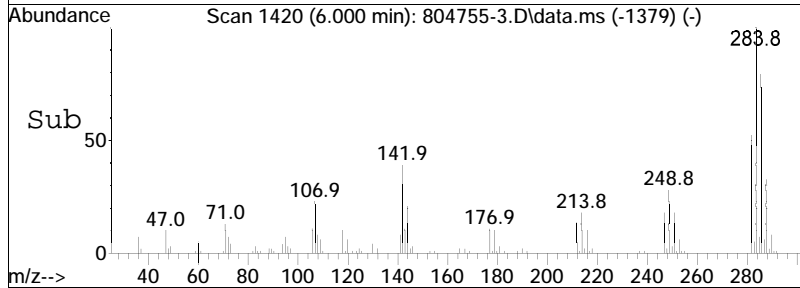
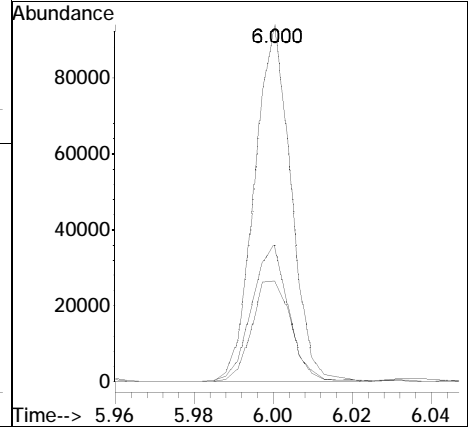
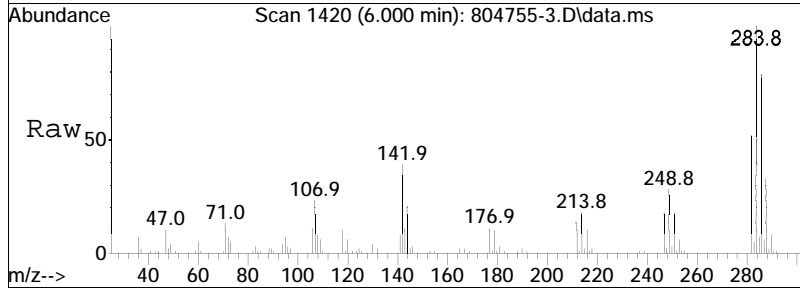
Tgt Ion	Resp	Lower	Upper
248	50070		
141	79.1	76.8	115.2
250	96.0	79.7	119.5

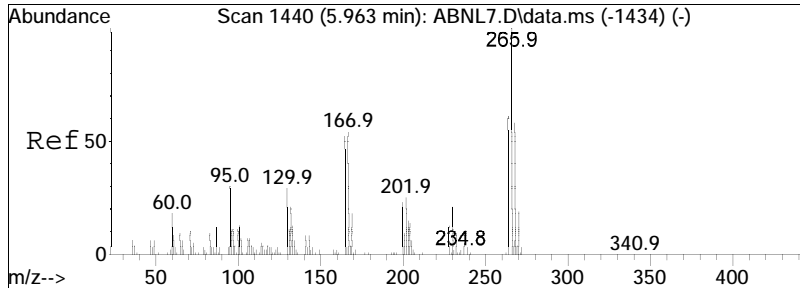




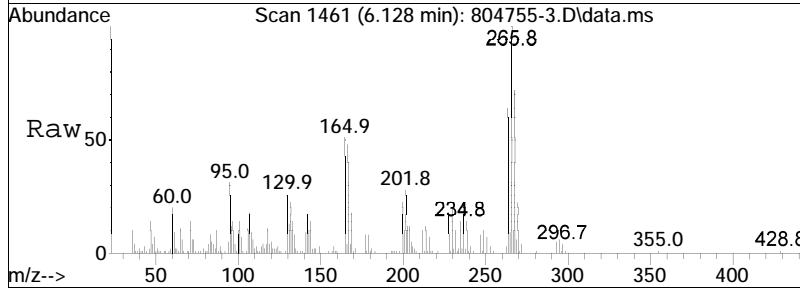
#81
 Hexachlorobenzene
 Concen: 25.42 ug/ml
 RT: 6.000 min Scan# 1420
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

Tgt Ion	Resp	Lower	Upper
284	100		
142	39.0	35.8	53.6
249	30.8	24.7	37.1

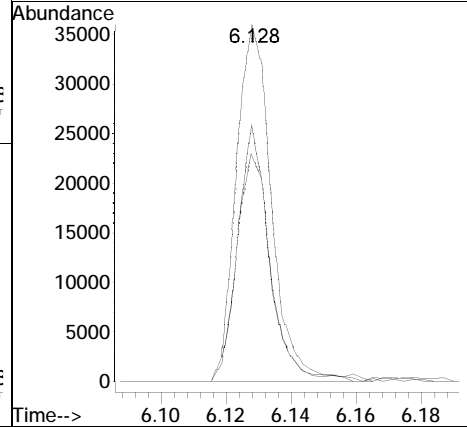
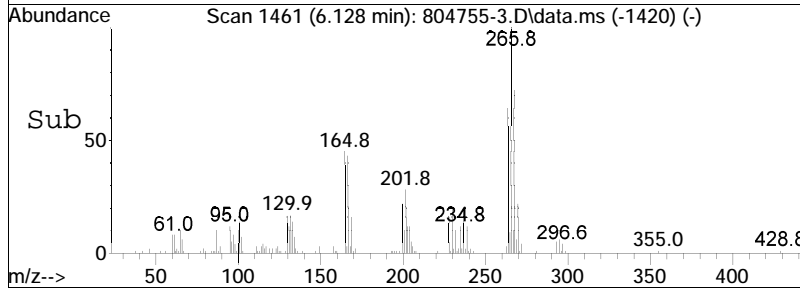


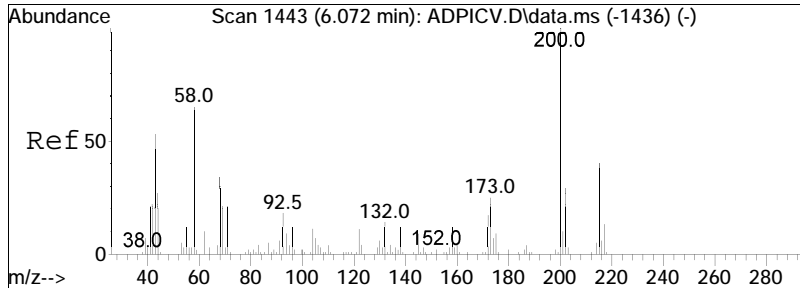


#82
 Pentachlorophenol
 Concen: 19.72 ug/ml
 RT: 6.128 min Scan# 1461
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am



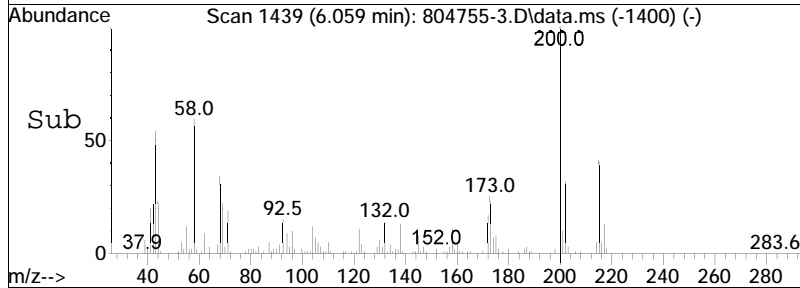
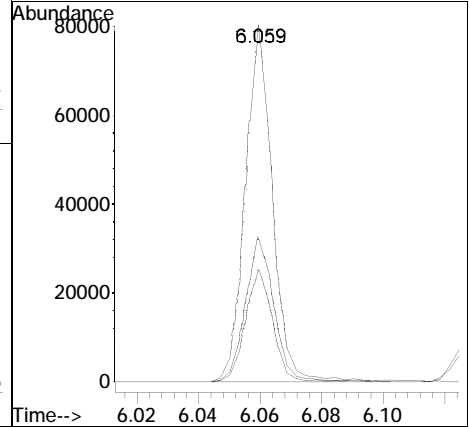
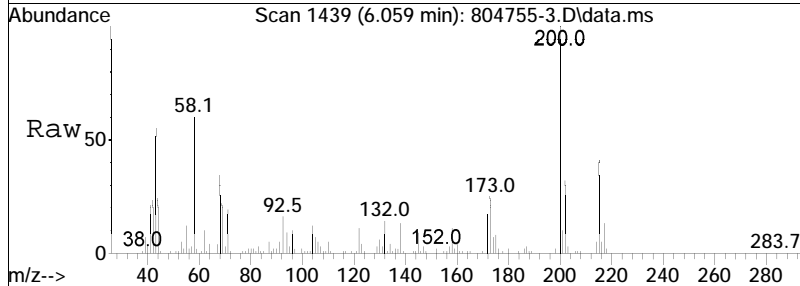
Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.1	51.8	77.6
268	64.3	49.8	74.8

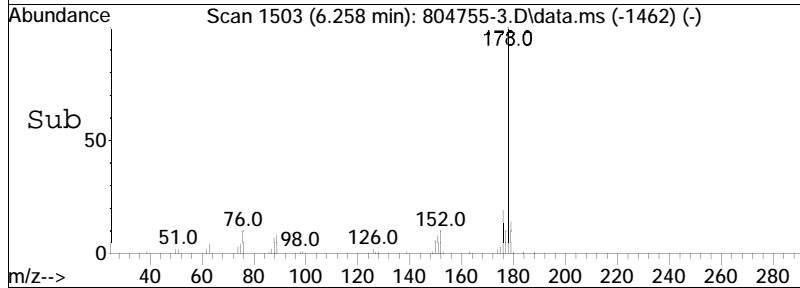
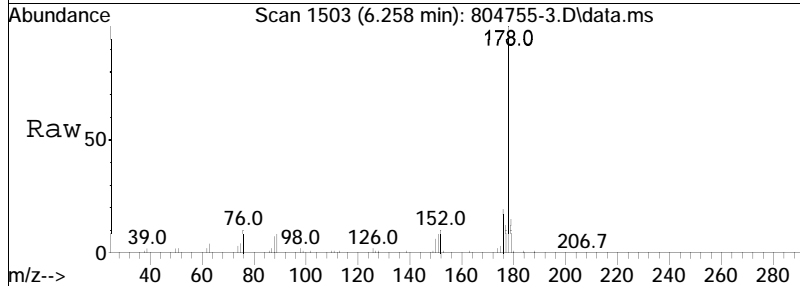
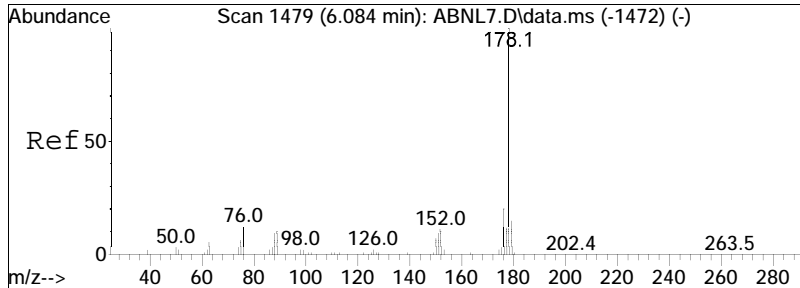




#87
 Atrazine
 Concen: 28.79 ug/ml
 RT: 6.059 min Scan# 1439
 Delta R.T. -0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

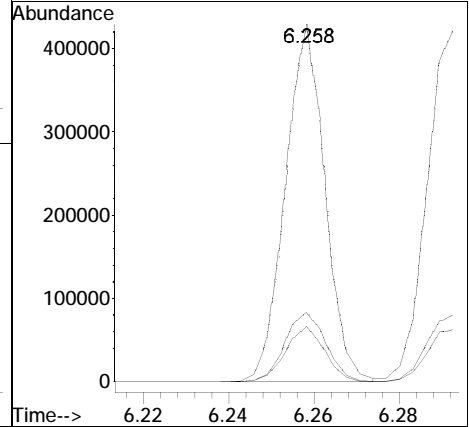
Tgt Ion	Ratio	Lower	Upper
200	100		
202	31.7	24.9	37.3
215	42.7	34.0	51.0

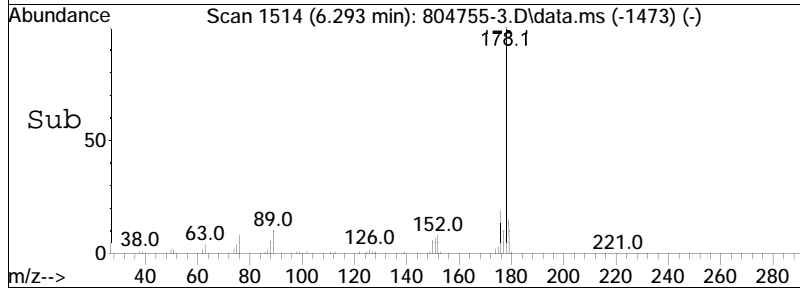
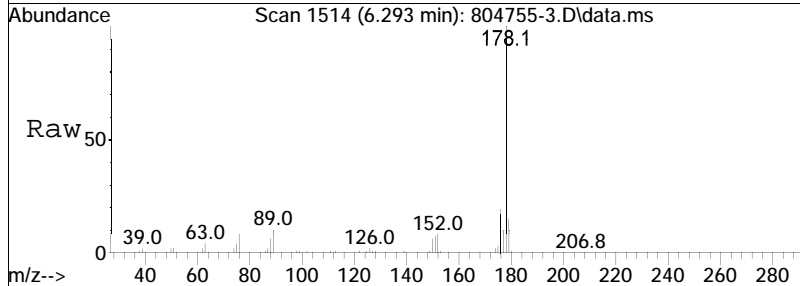
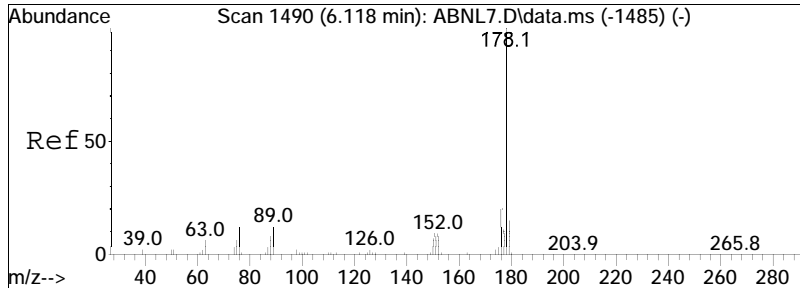




#89
 Phenanthrene
 Concen: 30.10 ug/ml
 RT: 6.258 min Scan# 1503
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

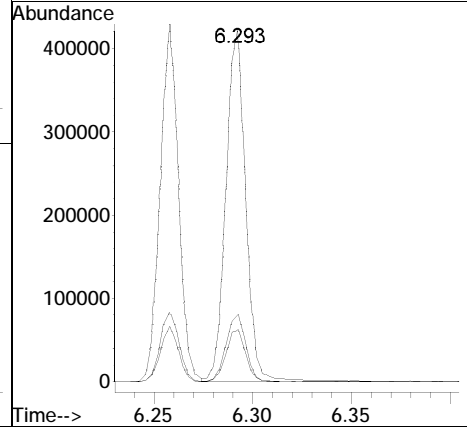
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.2
176	20.2	15.4	23.2

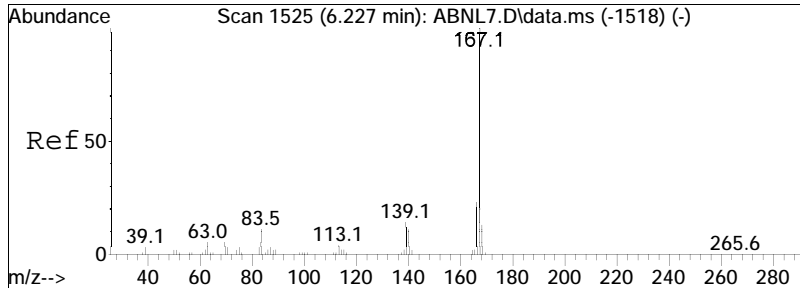




#90
 Anthracene
 Concen: 31.63 ug/ml
 RT: 6.293 min Scan# 1514
 Delta R.T. 0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

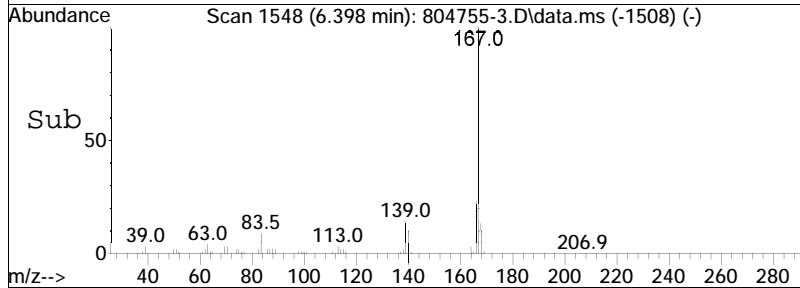
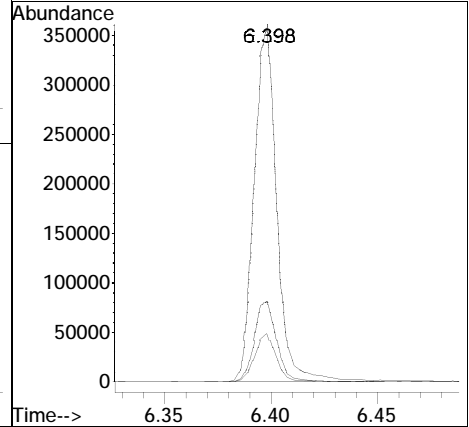
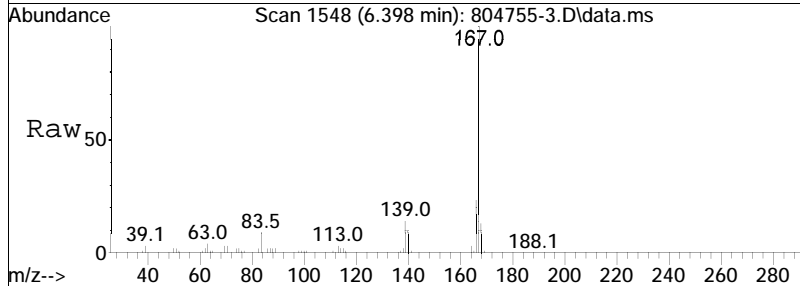
Tgt Ion	Ratio	Lower	Upper
178	100		
179	14.8	12.1	18.1
176	19.1	14.8	22.2

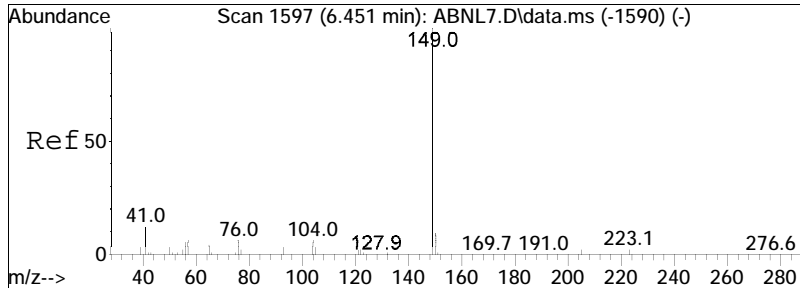




#91
 Carbazole
 Concen: 32.49 ug/ml
 RT: 6.398 min Scan# 1548
 Delta R.T. -0.000 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

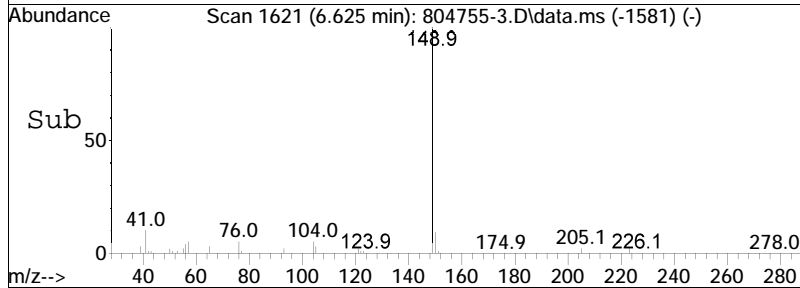
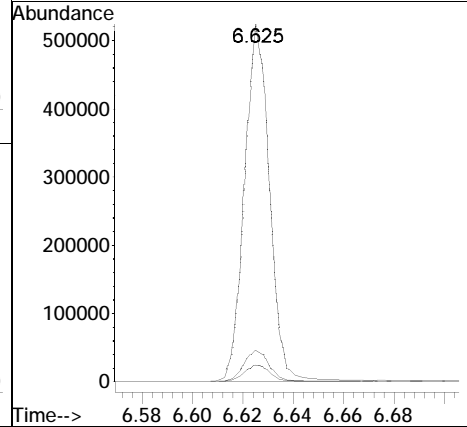
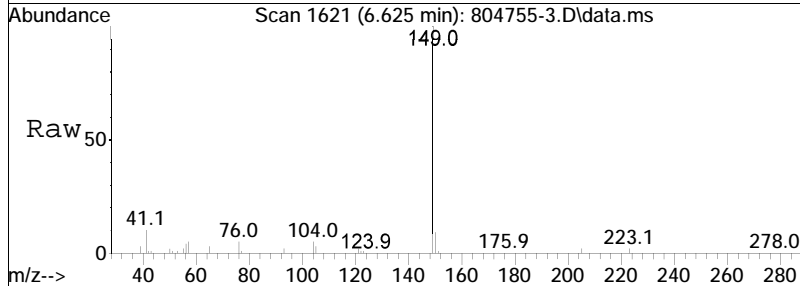
Tgt Ion	Resp	Lower	Upper
167	100		
168	13.2	10.6	15.8
166	22.6	17.7	26.5

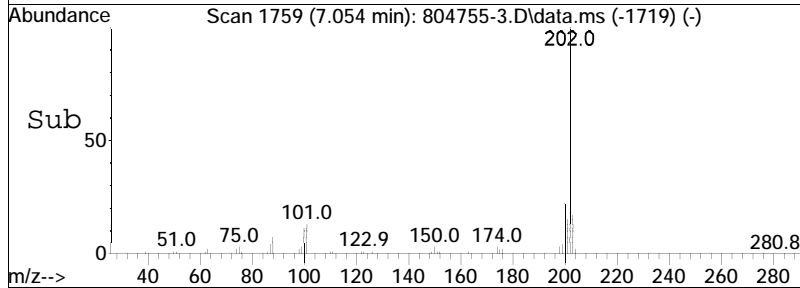
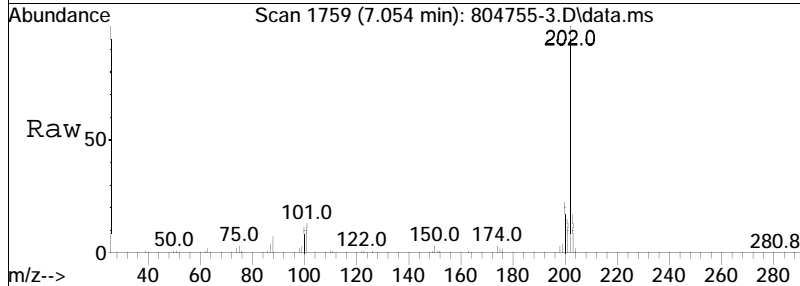
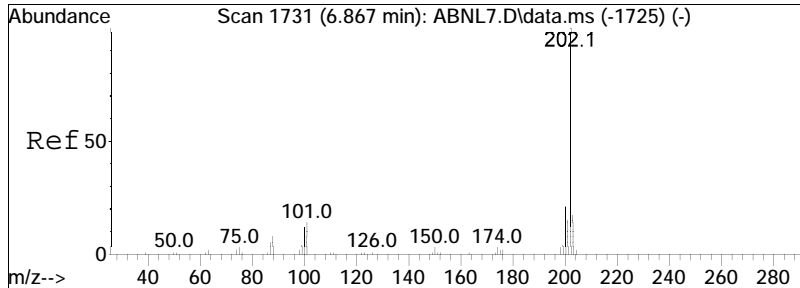




#92
 Di-n-butylphthalate
 Concen: 35.11 ug/ml
 RT: 6.625 min Scan# 1621
 Delta R.T. -0.000 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

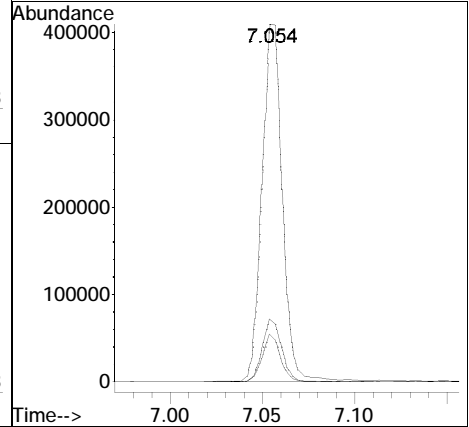
Tgt Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.4	11.0
104	4.7	4.2	6.2

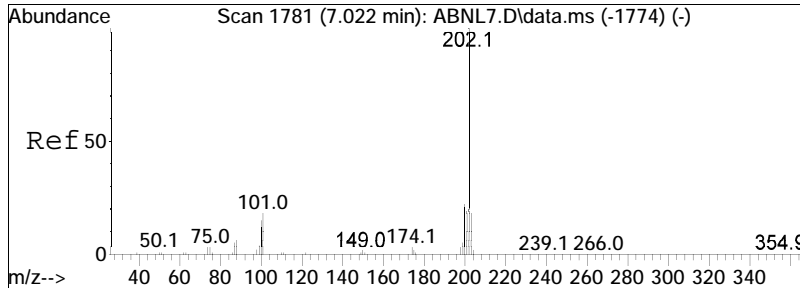




#93
 Fluoranthene
 Concen: 29.33 ug/ml
 RT: 7.054 min Scan# 1759
 Delta R.T. -0.000 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

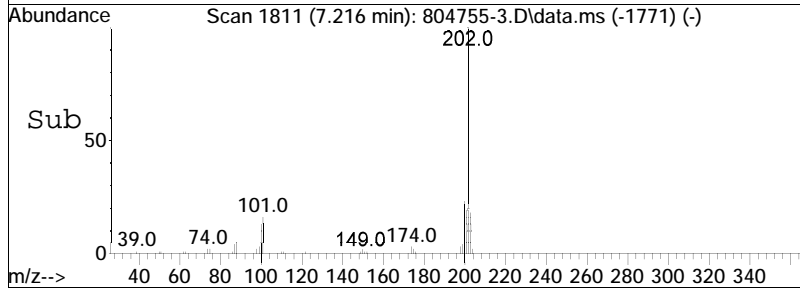
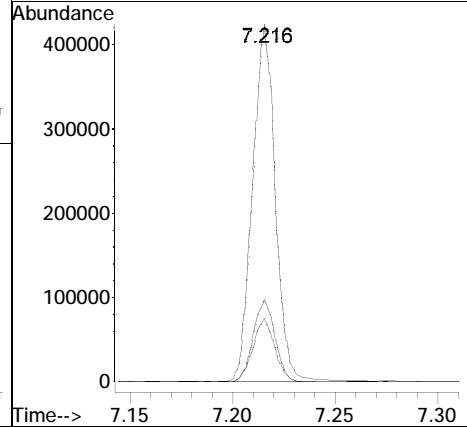
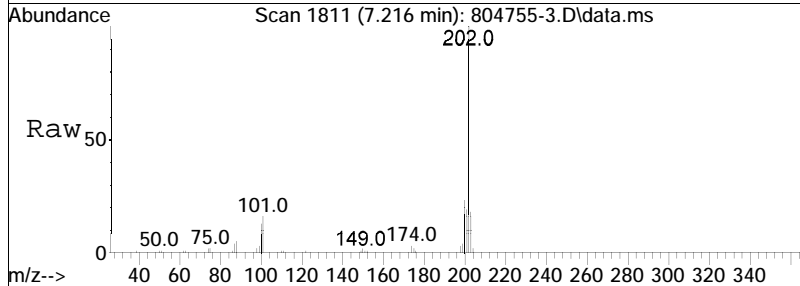
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.9	11.4	17.0
203	16.6	13.9	20.9

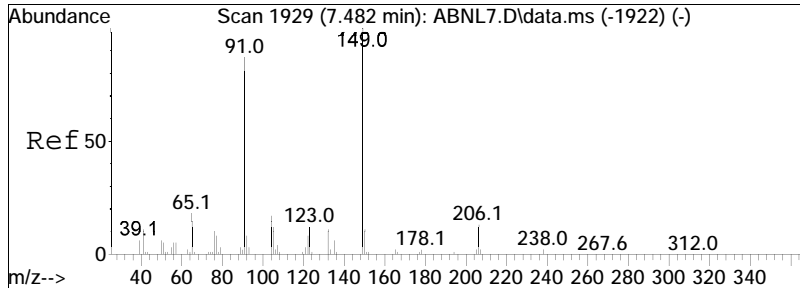




#95
 Pyrene
 Concen: 29.30 ug/ml
 RT: 7.216 min Scan# 1811
 Delta R.T. -0.000 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

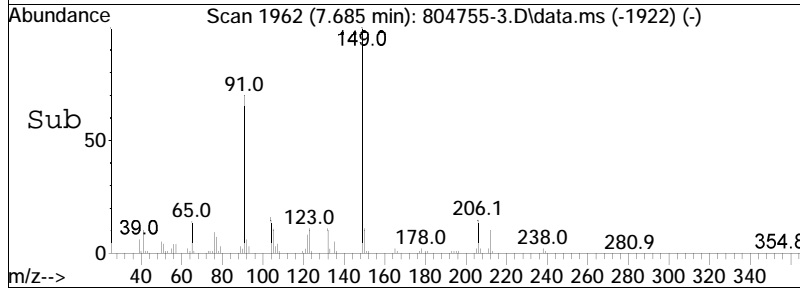
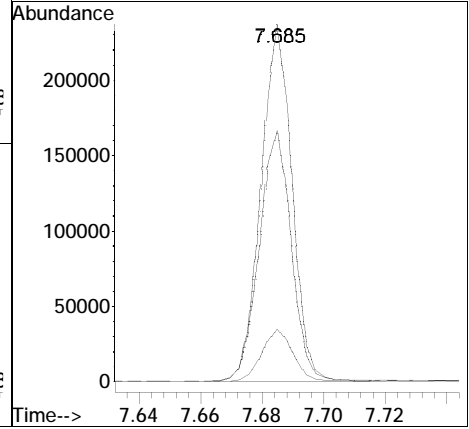
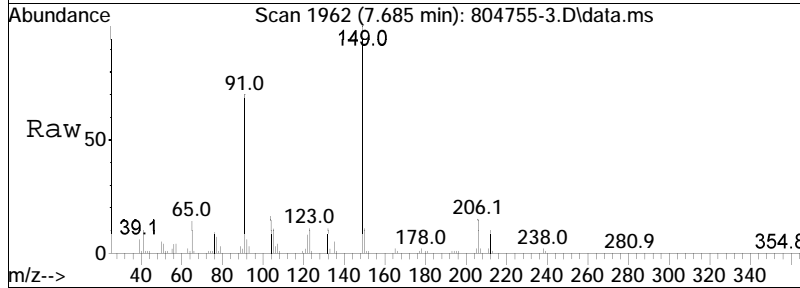
Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.7	17.0	25.4
203	17.6	14.2	21.2

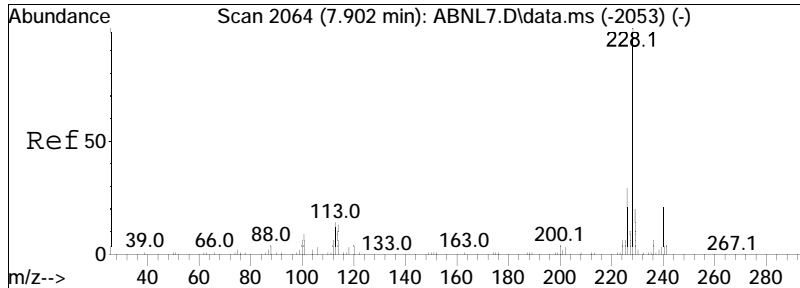




#97
 Butyl benzyl phthalate
 Concen: 37.22 ug/ml
 RT: 7.685 min Scan# 1962
 Delta R.T. -0.000 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

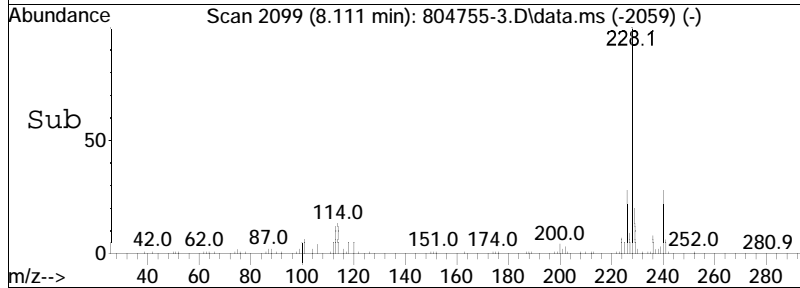
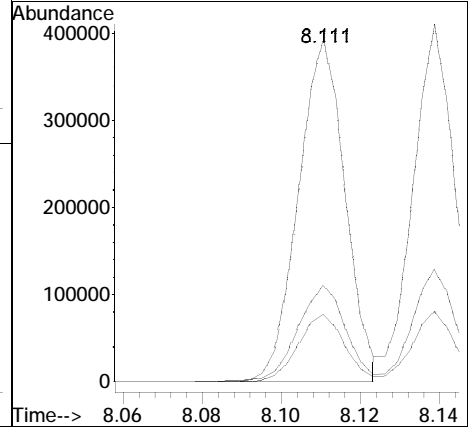
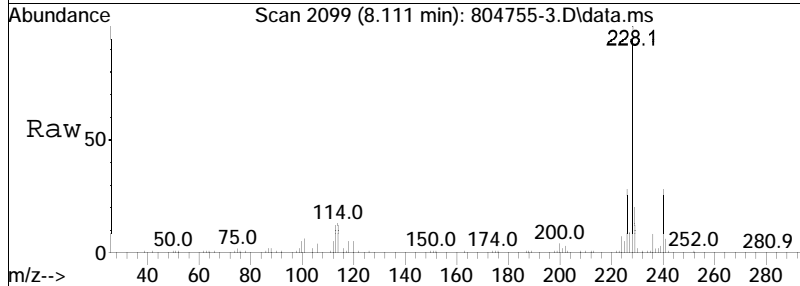
Tgt Ion	Ratio	Lower	Upper
149	100		
91	73.1	61.2	91.8
206	14.8	12.5	18.7

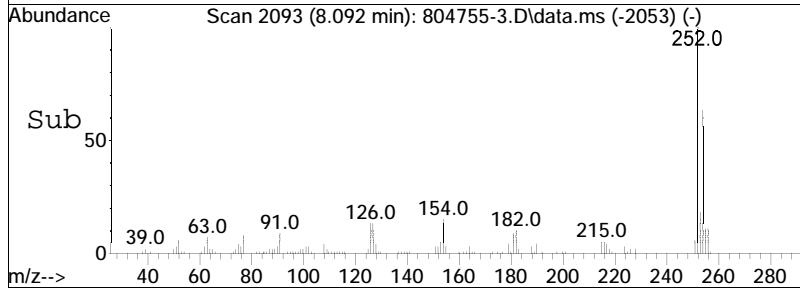
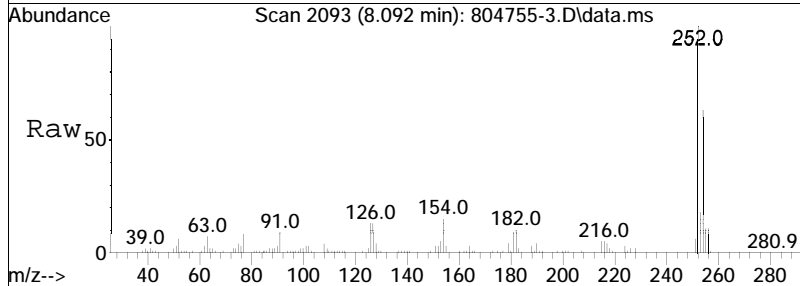
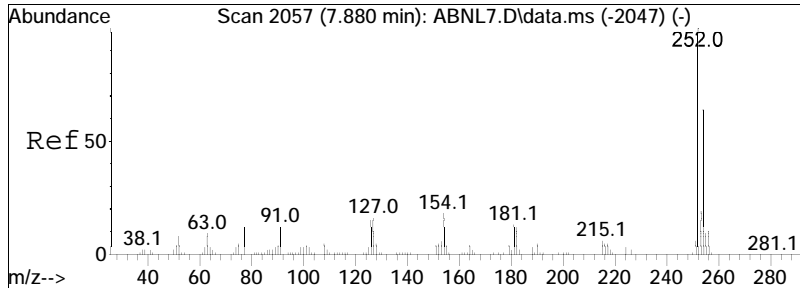




#105
 Benzo(a)anthracene
 Concen: 30.94 ug/ml
 RT: 8.111 min Scan# 2099
 Delta R.T. -0.000 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

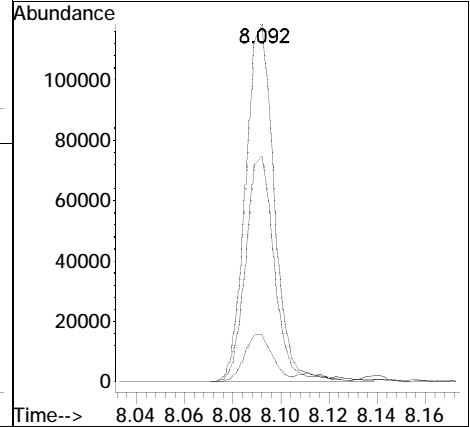
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.2	33.2
229	19.6	15.6	23.4

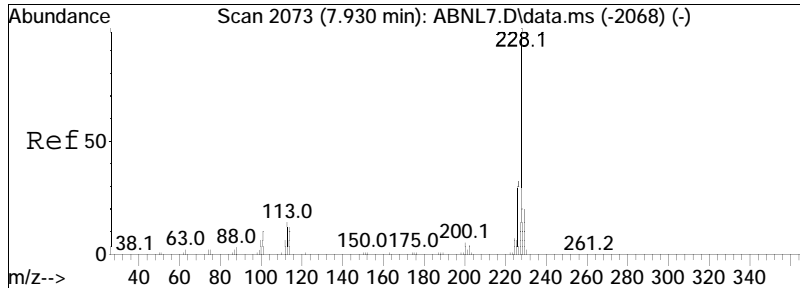




#106
 3,3'-Dichlorobenzidine
 Concen: 26.82 ug/ml
 RT: 8.092 min Scan# 2093
 Delta R.T. -0.000 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

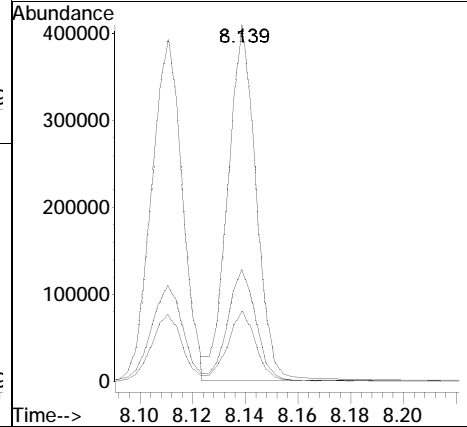
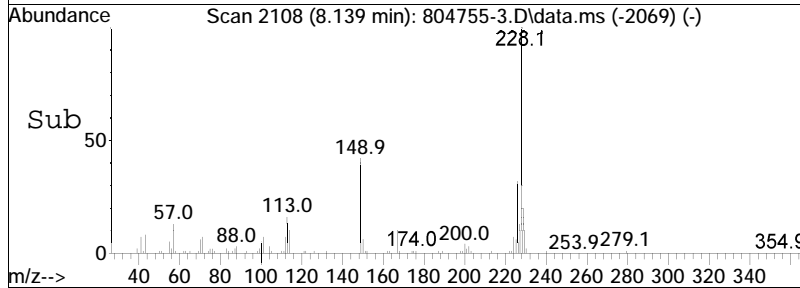
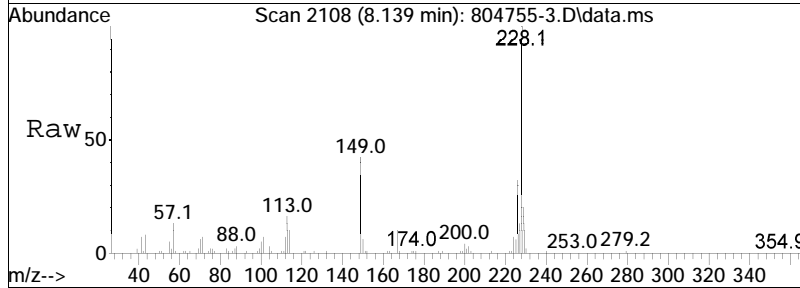
Tgt Ion	Ratio	Lower	Upper
252	100		
126	13.1	13.8	20.6#
254	62.8	53.0	79.6

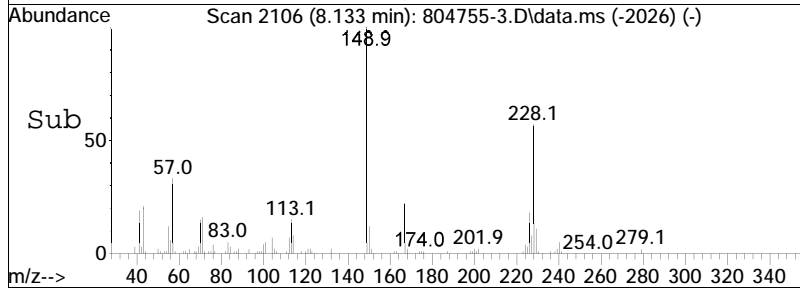
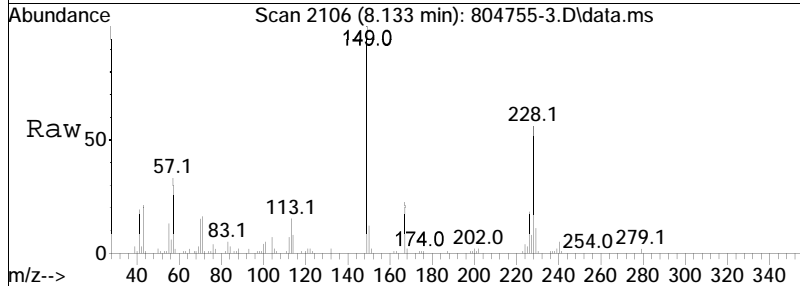
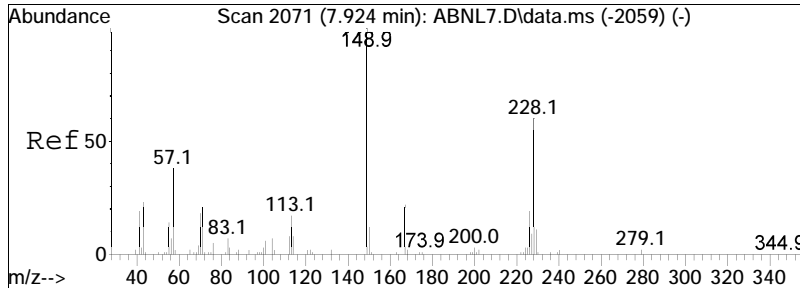




#107
 Chrysene
 Concen: 30.00 ug/ml
 RT: 8.139 min Scan# 2108
 Delta R.T. -0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

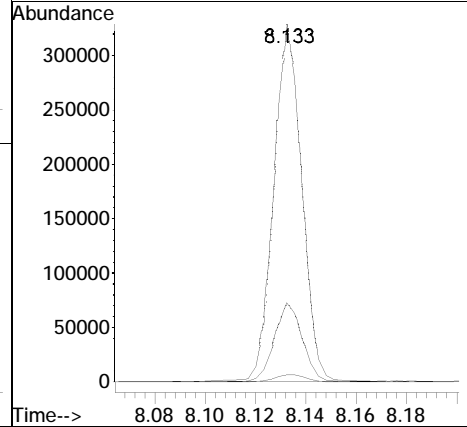
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.6	37.0
229	19.8	15.8	23.6

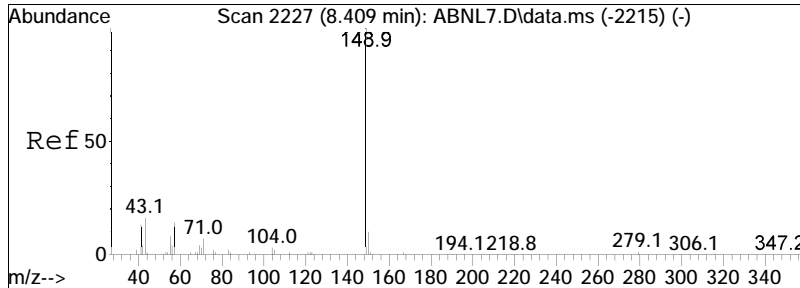




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 31.19 ug/ml
 RT: 8.133 min Scan# 2106
 Delta R.T. -0.000 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

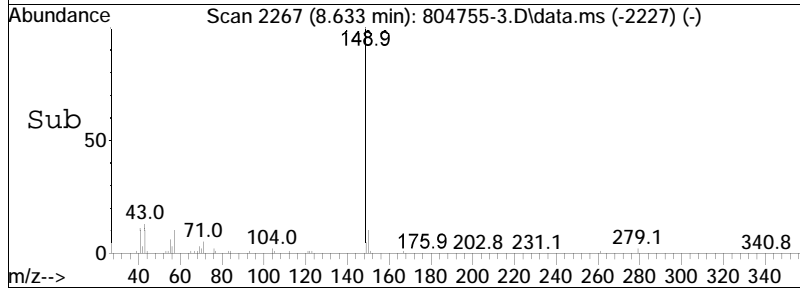
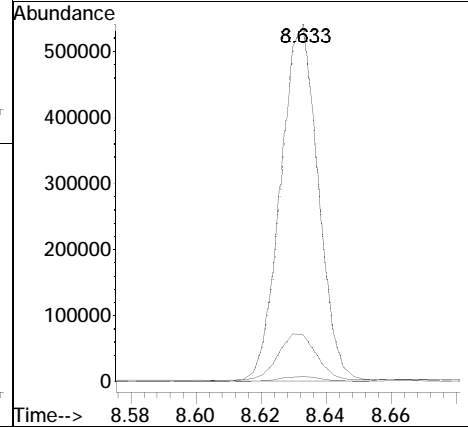
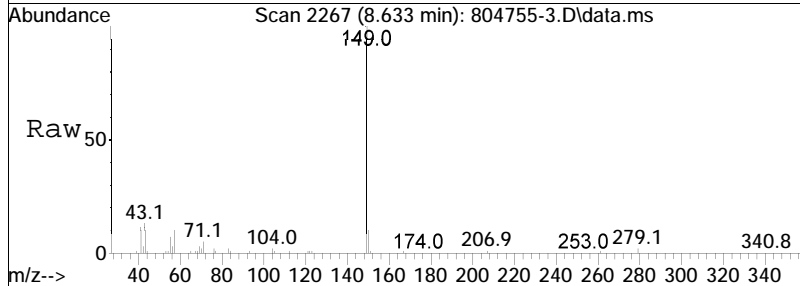
Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.4	19.4	29.0
279	2.2	2.3	3.5#

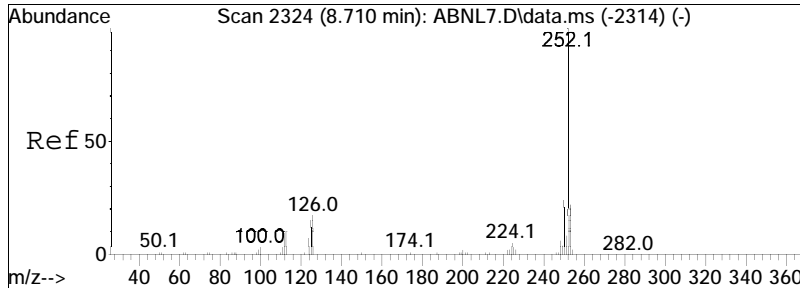




#109
 Di-n-octylphthalate
 Concen: 33.54 ug/ml
 RT: 8.633 min Scan# 2267
 Delta R.T. -0.000 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

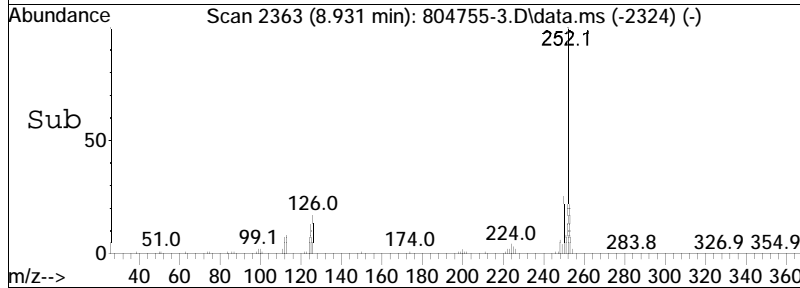
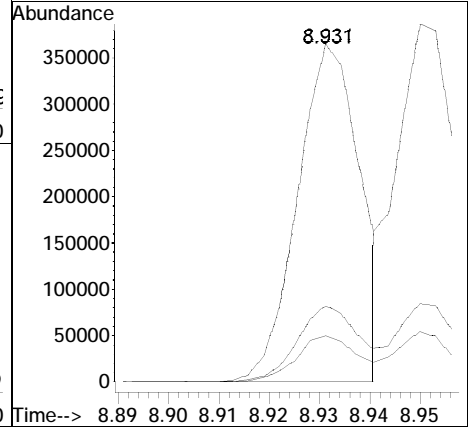
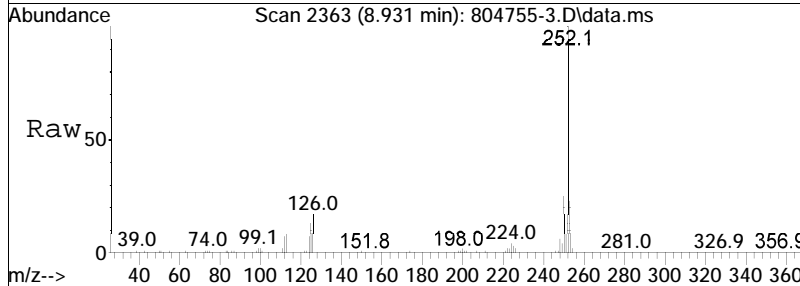
Tgt Ion	Ratio	Lower	Upper
149	100		
43	13.6	10.1	15.1
167	1.4	1.1	1.7

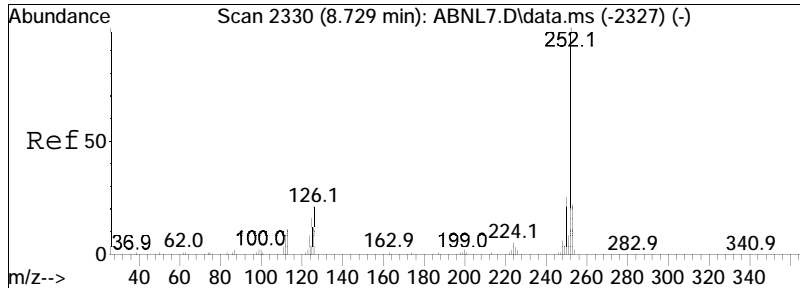




#110
 Benzo(b)fluoranthene
 Concen: 30.00 ug/ml
 RT: 8.931 min Scan# 2363
 Delta R.T. -0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

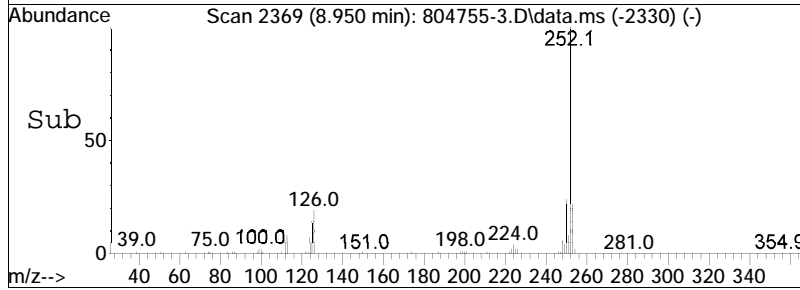
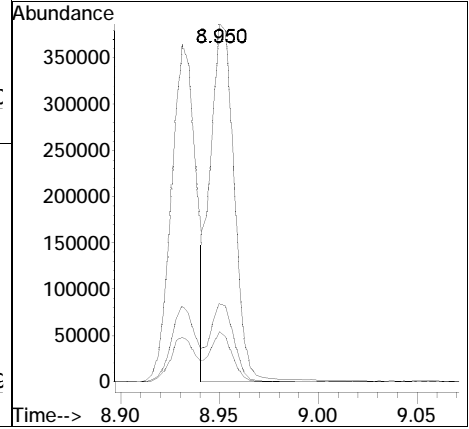
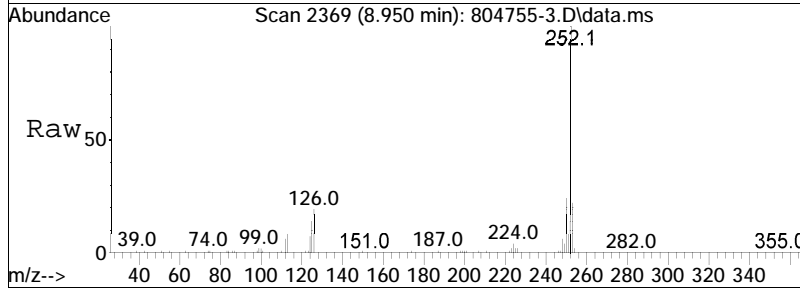
Tgt Ion	Ratio	Lower	Upper
252	100		
125	13.4	11.6	17.4
253	22.2	17.4	26.0

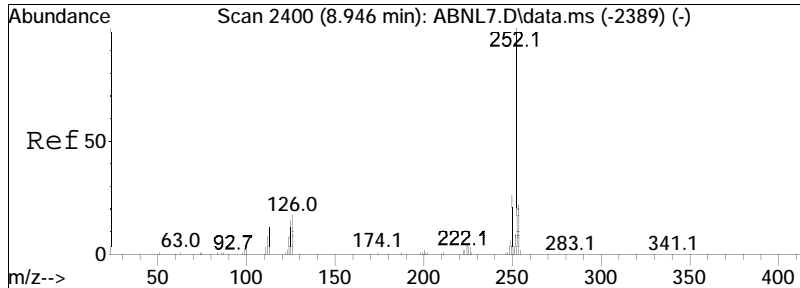




#111
 Benzo(k)fluoranthene
 Concen: 31.70 ug/ml
 RT: 8.950 min Scan# 2369
 Delta R.T. -0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

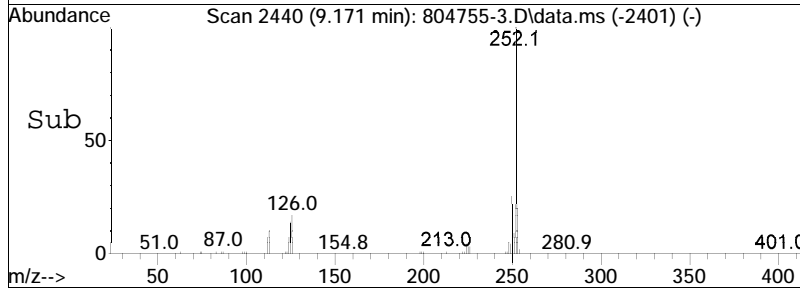
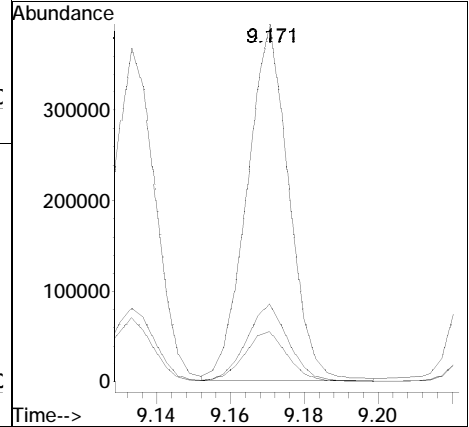
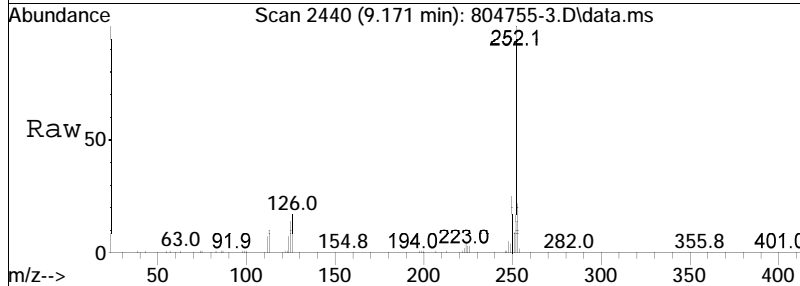
Tgt Ion	Ratio	Lower	Upper
252	100		
125	12.6	11.4	17.0
253	21.3	17.2	25.8

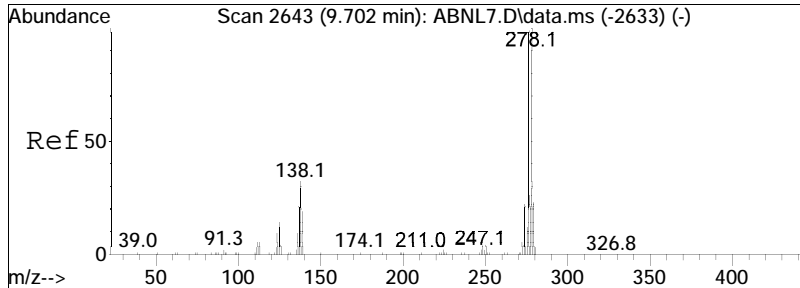




#112
 Benzo(a)pyrene
 Concen: 34.70 ug/ml
 RT: 9.171 min Scan# 2440
 Delta R.T. -0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

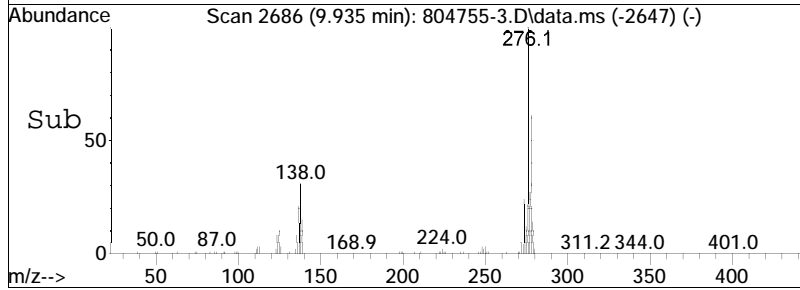
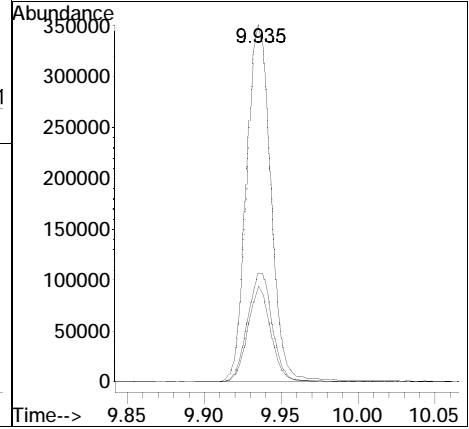
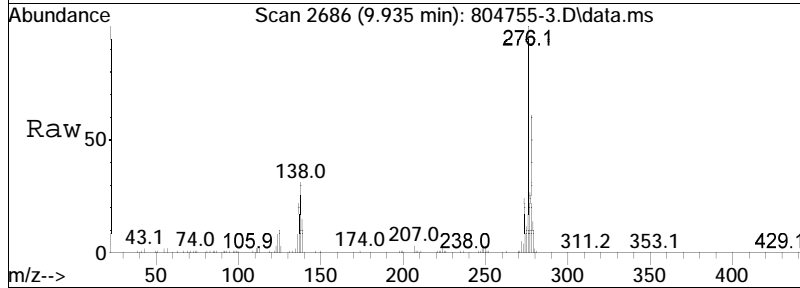
Tgt Ion	Ratio	Lower	Upper
252	100		
125	14.5	12.6	18.8
253	22.0	16.9	25.3

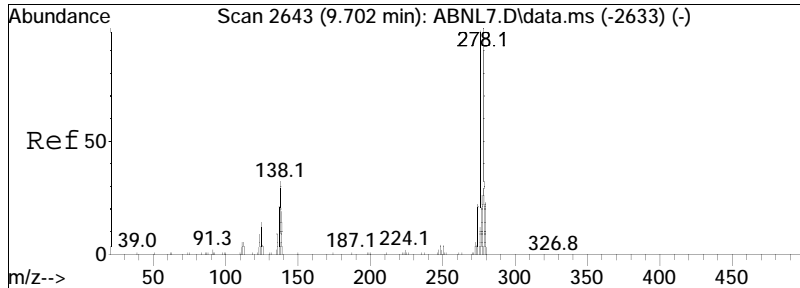




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 32.11 ug/mL
 RT: 9.935 min Scan# 2686
 Delta R.T. -0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

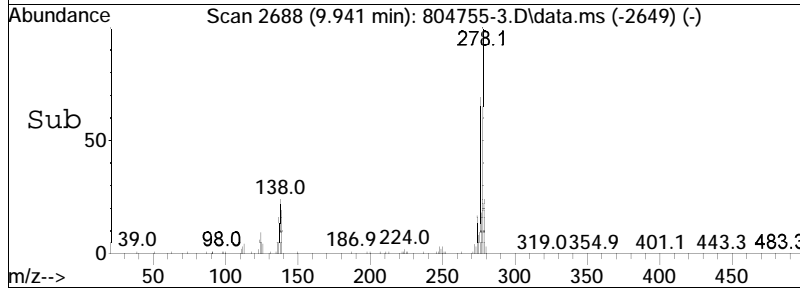
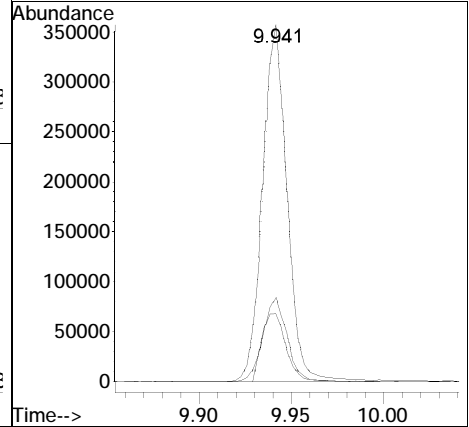
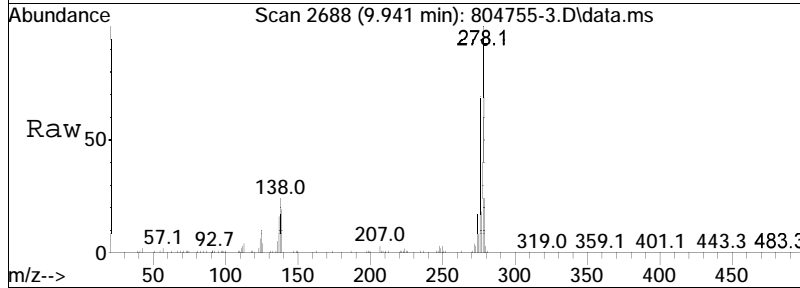
Tgt Ion	Resp	Lower	Upper
276	100		
138	31.6	21.4	32.0
277	25.3	19.2	28.8

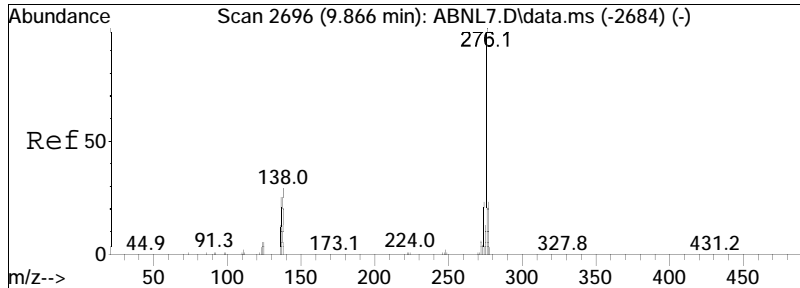




#115
 Dibenzo(a,h)anthracene
 Concen: 30.63 ug/ml
 RT: 9.941 min Scan# 2688
 Delta R.T. -0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

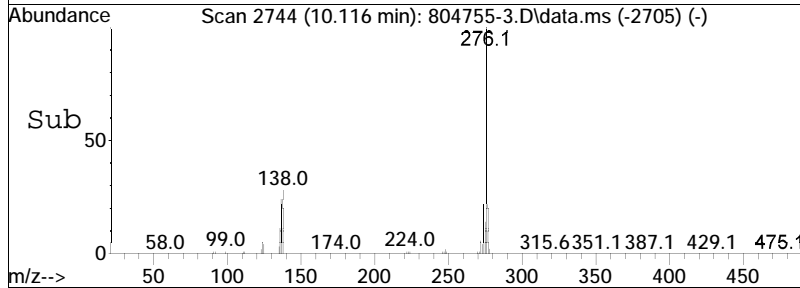
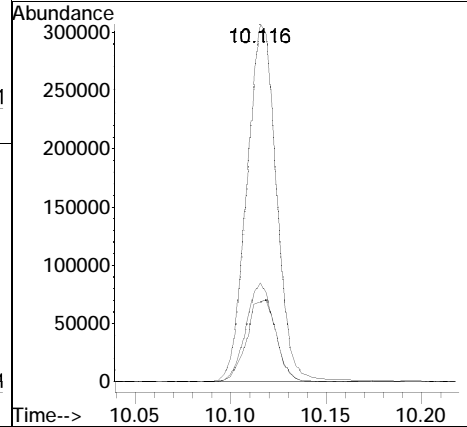
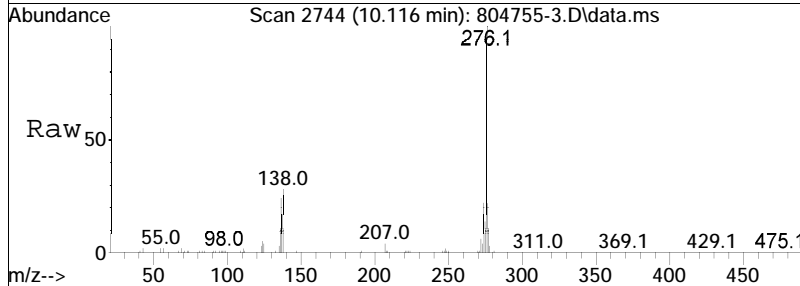
Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.4	17.1	25.7
279	23.5	19.3	28.9





#116
 Benzo(ghi)perylene
 Concen: 31.09 ug/ml
 RT: 10.116 min Scan# 2744
 Delta R.T. -0.003 min
 Lab File: 804755-3.D
 Acq: 19 Jul 2023 8:41 am

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.8	26.7	40.1
277	23.4	19.4	29.2



Manual Integration Report

Data Path	: I:\8270\SV124\230719\	QMethod	: FS230526SV124.m
Data File	: 804755-3.D	Operator	: SV124:jg
Date Inj'd	: 7/19/2023 8:41 am	Instrument	: SV124
Sample	: WG1804755-3,32,,gmr	Quant Date	: 7/19/2023 9:57 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-4.d
 Acq On : 19 Jul 2023 5:56 am
 Operator : SV103:ek
 Sample : WG1803858-4,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 25 18:09:07 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.822	152	221267	40.000	ug/ml	0.00
Standard Area 1 = 229645			Recovery = 96.35%			
27) IS2_1,4-Dichlorobenzen...	3.822	152	221267	40.000	ug/ml	0.00
Standard Area 3 = 170348			Recovery = 129.89%			
32) IS3_1,4-Dichlorobenzen...	3.822	152	221267	40.000	ug/ml	0.00
Standard Area 2 = 151650			Recovery = 145.91%			
35) IS1_Naphthalene-d8	5.078	136	874470	40.000	ug/ml	0.00
Standard Area 1 = 870434			Recovery = 100.46%			
55) IS2_Naphthalene-d8	5.078	136	874470	40.000	ug/ml	0.00
Standard Area 3 = 647727			Recovery = 135.01%			
63) IS1_Acenaphthene-d10	6.769	164	478407	40.000	ug/ml	0.00
Standard Area 1 = 468195			Recovery = 102.18%			
83) IS2_Acenaphthene-d10	6.769	164	478407	40.000	ug/ml	0.00
Standard Area 3 = 342963			Recovery = 139.49%			
86) IS3_Acenaphthene-d10	6.769	164	478407	40.000	ug/ml	0.00
Standard Area 2 = 314489			Recovery = 152.12%			
88) IS1_Phenanthrene-d10	8.175	188	939851	40.000	ug/ml	0.00
Standard Area 1 = 951685			Recovery = 98.76%			
100) IS3_Phenanthrene-d10	8.175	188	939851	40.000	ug/ml	0.00
Standard Area 2 = 639108			Recovery = 147.06%			
104) IS1_Chrysene-d12	10.738	240	855066	40.000	ug/ml	0.00
Standard Area 1 = 883111			Recovery = 96.82%			
113) IS1_Perylene-d12	12.503	264	1003258	40.000	ug/ml	0.00
Standard Area 1 = 990767			Recovery = 101.26%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.467	112	193519	31.381	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 62.76%			
7) Phenol-d6	3.566	99	245540	31.933	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 63.87%			
19) Nitrobenzene-d5	4.393	82	119165	18.676	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery = 74.70%			
46) 2-Fluorobiphenyl	6.163	172	244445	14.867	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery = 59.47%			
79) 2,4,6-Tribromophenol	7.530	330	84797	33.311	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery = 66.62%			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-4.d
 Acq On : 19 Jul 2023 5:56 am
 Operator : SV103:ek
 Sample : WG1803858-4,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 25 18:09:07 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	9.749	244	287034	13.127	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	52.51%
Target Compounds						Qvalue
6) 2-Chlorophenol	3.620	128	190964	26.647	ug/ml	91
8) Phenol	3.578	94	227364	25.892	ug/ml#	94
9) Bis(2-chloroethyl)ether	3.606	93	162914	26.263	ug/ml#	85
14) Bis(2-chloroisopropyl)...	4.163	45	192742	19.426	ug/ml#	67
15) 2-Methylphenol	4.183	108	162081	26.478	ug/ml	99
16) Hexachloroethane	4.314	117	71177	24.248	ug/ml#	81
17) n-Nitrosodi-n-propylamine	4.291	70	131868	30.823	ug/ml	99
18) 3-Methylphenol/4-Methy...	4.348	108	188184	29.148	ug/ml#	28
20) Nitrobenzene	4.410	77	197389	30.661	ug/ml	95
21) Isophorone	4.666	82	350066	30.017	ug/ml	100
22) 2-Nitrophenol	4.731	139	98442	31.293	ug/ml	90
23) 2,4-Dimethylphenol	4.851	107	169392	25.638	ug/ml	97
24) Bis(2-chloroethoxy)met...	4.924	93	216065	28.528	ug/ml#	98
25) 2,4-Dichlorophenol	4.987	162	170163	29.071	ug/ml	97
28) Benzaldehyde	3.367	105	151173	31.777	ug/ml	93
29) Acetophenone	4.257	105	270275	28.071	ug/ml#	92
36) Naphthalene	5.098	128	571263	24.832	ug/ml	100
38) 4-Chloroaniline	5.197	65	69669	29.257	ug/ml	88
39) Hexachlorobutadiene	5.260	225	102016	26.826	ug/ml	99
40) p-Chloro-m-cresol	5.734	107	166547	28.899	ug/ml	95
41) 2-Methylnaphthalene	5.780	142	371298	25.929	ug/ml	96
43) Hexachlorocyclopentadiene	5.950	237	36179	8.753	ug/ml	96
44) 2,4,6-Trichlorophenol	6.089	196	125554	30.736	ug/ml	94
45) 2,4,5-Trichlorophenol	6.126	196	137411	29.769	ug/ml	95
47) 2-Chloronaphthalene	6.240	162	360311	25.562	ug/ml	98
48) 2-Nitroaniline	6.374	138	132547	30.046	ug/ml	86
51) Dimethyl phthalate	6.590	163	426184	26.270	ug/ml	99
52) Acenaphthylene	6.626	152	610253	28.155	ug/ml	98
53) 2,6-Dinitrotoluene	6.626	165	92126	27.635	ug/ml#	85
60) Caprolactam	5.521	55	74565	25.948	ug/ml#	90
61) 1,2,4,5-Tetrachloroben...	5.950	216	187276	28.393	ug/ml	99
62) Biphenyl	6.246	154	457544	25.432	ug/ml	98
64) 3-Nitroaniline	6.774	138	113798	27.023	ug/ml#	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-4.d
 Acq On : 19 Jul 2023 5:56 am
 Operator : SV103:ek
 Sample : WG1803858-4,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 25 18:09:07 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Acenaphthene	6.800	154	329738	23.758	ug/ml	94
66) 2,4-Dinitrophenol	6.896	184	4573	5.876	ug/ml	95
67) Dibenzofuran	6.967	168	510060	23.712	ug/ml	95
68) 2,4-Dinitrotoluene	7.013	165	124468	27.080	ug/ml#	82
69) 4-Nitrophenol	7.016	65	84421	30.832	ug/ml	95
71) 2,3,4,6-Tetrachlorophenol	7.118	232	107667	27.810	ug/ml	99
72) Diethyl phthalate	7.274	149	435551	25.988	ug/ml	99
73) Fluorene	7.294	166	408508	24.485	ug/ml	94
74) 4-Chlorophenyl phenyl ...	7.328	204	189603	24.054	ug/ml	90
75) 4-Nitroaniline	7.354	138	112258	26.285	ug/ml#	81
76) 4,6-Dinitro-o-cresol	7.405	198	18350	9.676	ug/ml#	81
77) NDPA/DPA	7.450	169	341829	23.970	ug/ml	95
80) 4-Bromophenyl phenyl e...	7.786	248	115674	24.676	ug/ml#	86
81) Hexachlorobenzene	7.823	284	139296	24.329	ug/ml	92
82) Pentachlorophenol	8.033	266	79968	23.542	ug/ml	97
87) Atrazine	8.007	200	119950	31.390	ug/ml	99
89) Phenanthrene	8.198	178	605397	23.372	ug/ml	98
90) Anthracene	8.243	178	622317	24.385	ug/ml	98
91) Carbazole	8.431	167	591518	24.742	ug/ml	98
92) Di-n-butylphthalate	8.851	149	729982	28.439	ug/ml	99
93) Fluoranthene	9.329	202	678463	24.957	ug/ml	97
95) Pyrene	9.533	202	711244	24.329	ug/ml	99
97) Butyl benzyl phthalate	10.272	149	332159	26.873	ug/ml	93
105) Benzo(a)anthracene	10.730	228	686249	24.226	ug/ml	99
106) 3,3'-Dichlorobenzidine	10.755	252	264815	25.614	ug/ml	98
107) Chrysene	10.764	228	652548	23.013	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	10.937	149	496215	25.235	ug/ml	96
109) Di-n-octylphthalate	11.747	149	885028	27.037	ug/ml#	90
110) Benzo(b)fluoranthene	12.008	252	675749	24.576	ug/ml	99
111) Benzo(k)fluoranthene	12.042	252	656923	23.290	ug/ml	99
112) Benzo(a)pyrene	12.417	252	640222	27.000	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	13.935	276	574747	26.856	ug/mL	97
115) Dibenzo(a,h)anthracene	13.991	278	612375	23.868	ug/ml	98
116) Benzo(ghi)perylene	14.273	276	626176	23.965	ug/ml#	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
Data File : 803858-4.d
Acq On : 19 Jul 2023 5:56 am
Operator : SV103:ek
Sample : WG1803858-4,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 25 18:09:07 2023
Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 06:15:42 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
: 2 - I:\8270\sv103\230718n\ADP0718n.d
: 3 - I:\8270\sv103\230718n\AP90718n.d
Sub List : 8270TCL_REV2 - TCL/CT/MA

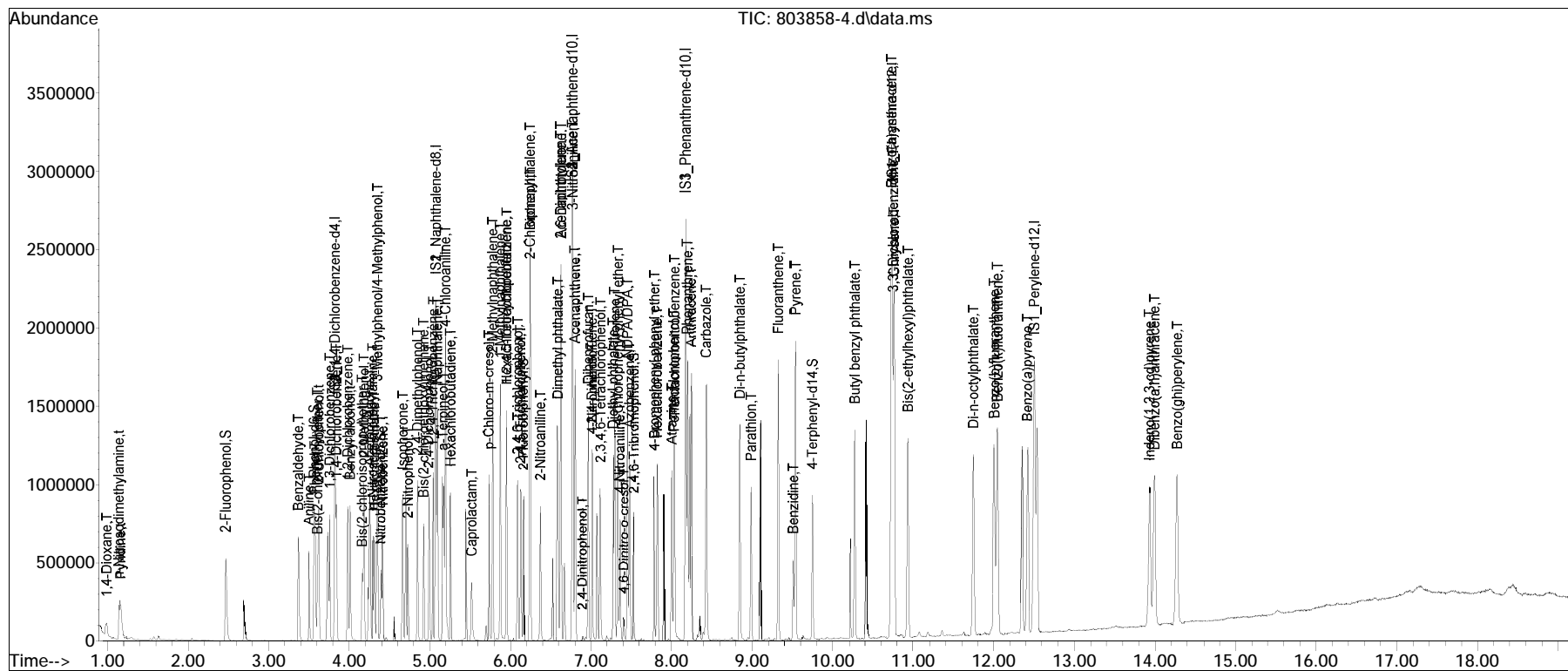
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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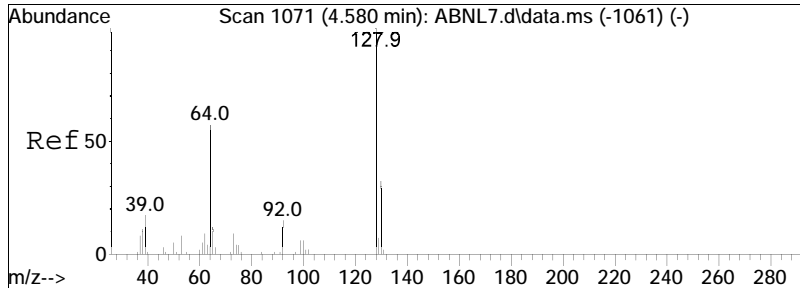
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-4.d
 Acq On : 19 Jul 2023 5:56 am
 Operator : SV103:ek
 Sample : WG1803858-4,32,,mg
 Misc : wg1804789,WG1803858,ical20013
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 25 18:09:07 2023
 Quant Method : I:\8270\sv103\230718n\F230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

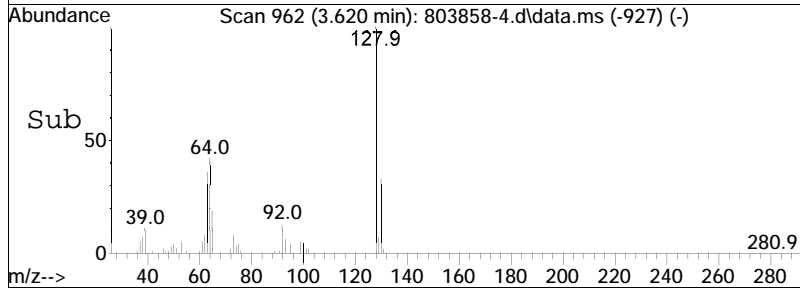
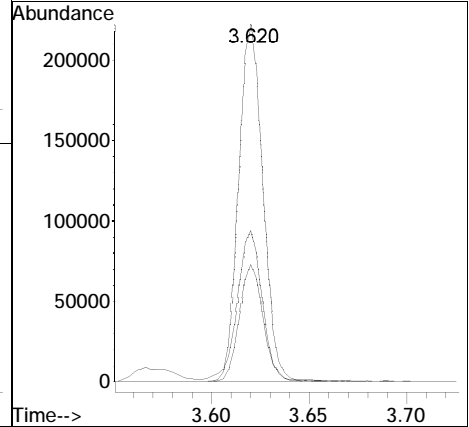
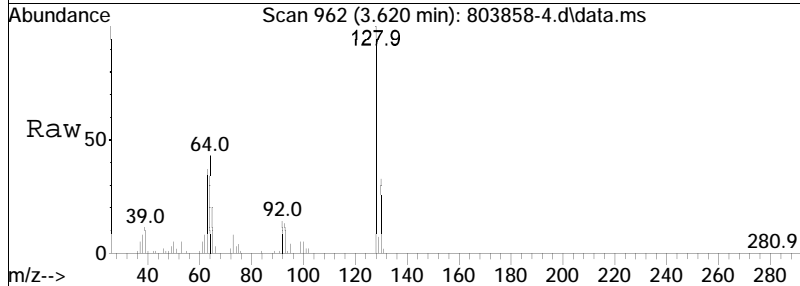
Sub List : 8270TCL_REV2 - TCL/CT/Man\AP90718n.d•

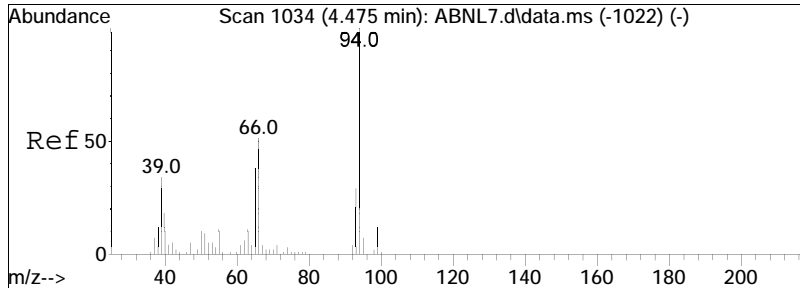




#6
 2-Chlorophenol
 Concen: 26.65 ug/ml
 RT: 3.620 min Scan# 962
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

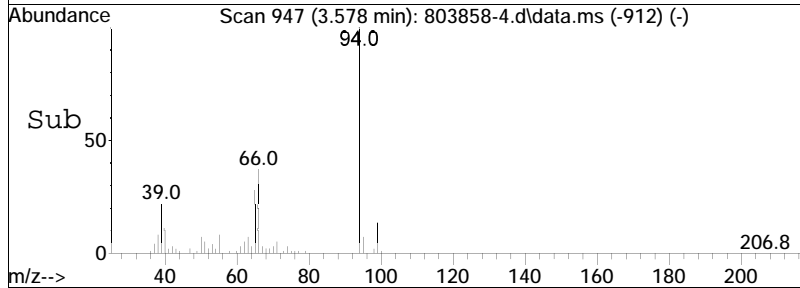
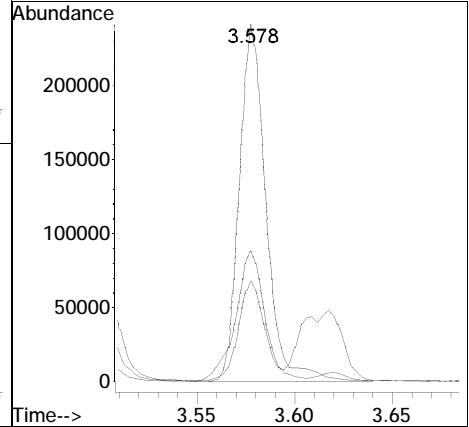
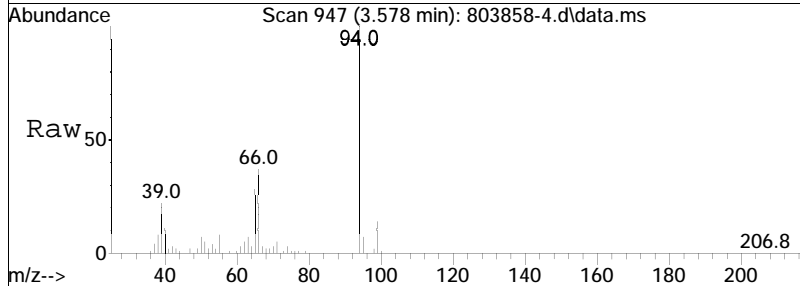
Tgt Ion	Ratio	Lower	Upper
128	100		
64	43.6	42.7	64.1
130	32.2	25.8	38.6

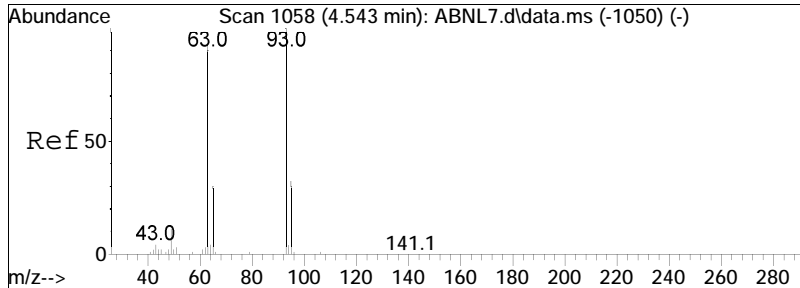




#8
 Phenol
 Concen: 25.89 ug/ml
 RT: 3.578 min Scan# 947
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

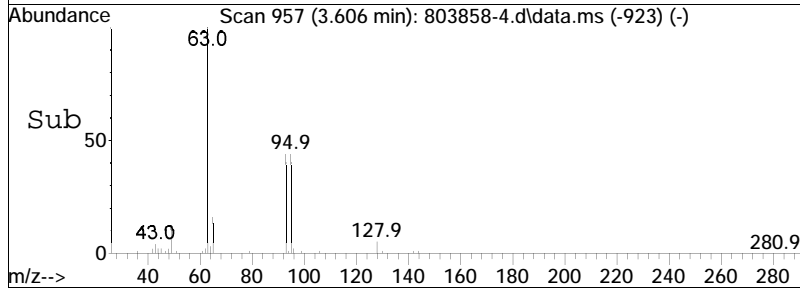
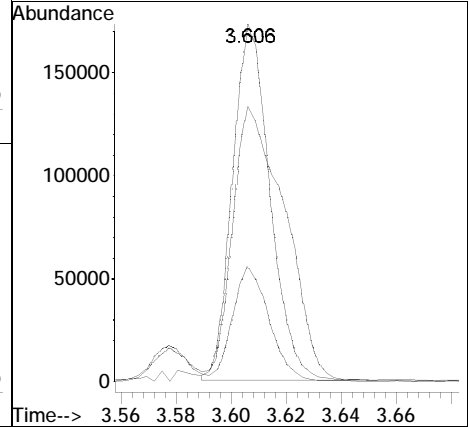
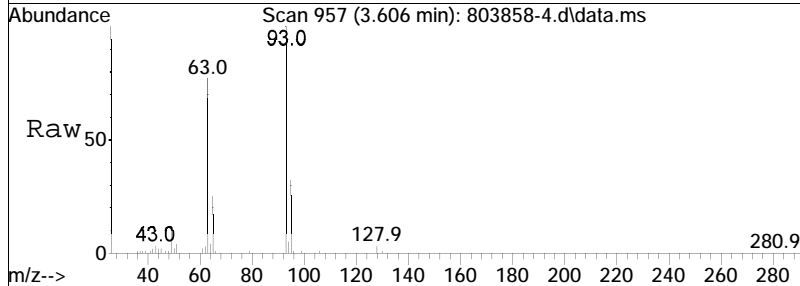
Tgt Ion:	94	Resp:	227364
Ion Ratio	Lower	Upper	
94	100		
65	28.4	20.5	30.7
66	40.2	0.0	0.0#

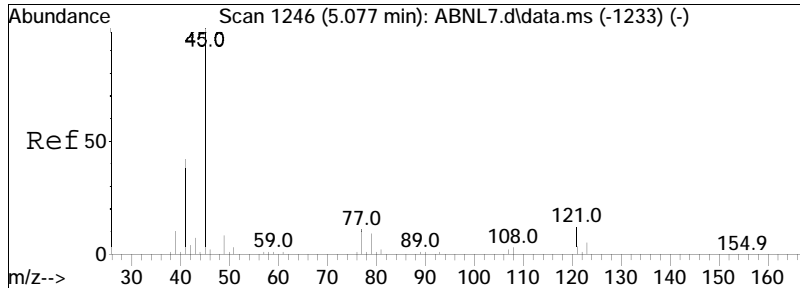




#9
 Bis(2-chloroethyl)ether
 Concen: 26.26 ug/ml
 RT: 3.606 min Scan# 957
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

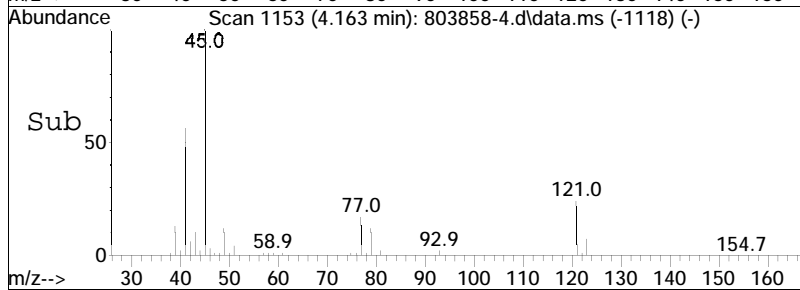
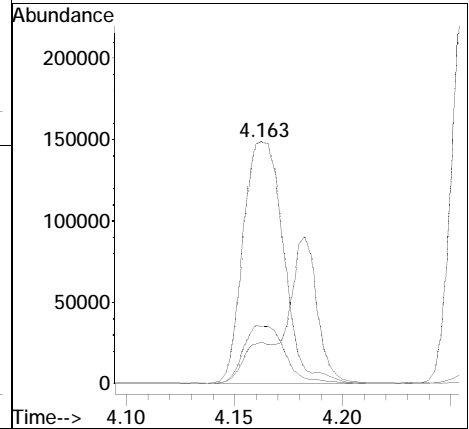
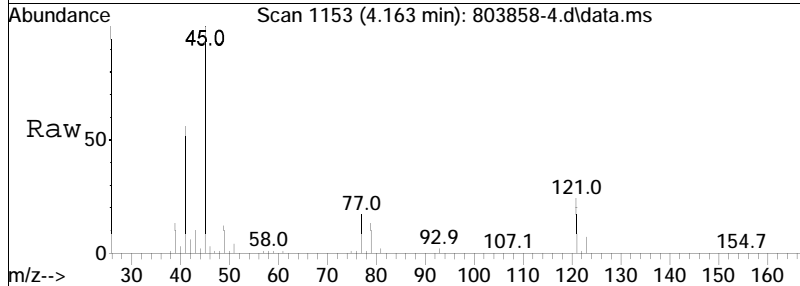
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
93	100		
63	106.9	70.4	105.6#
95	31.8	25.8	38.6

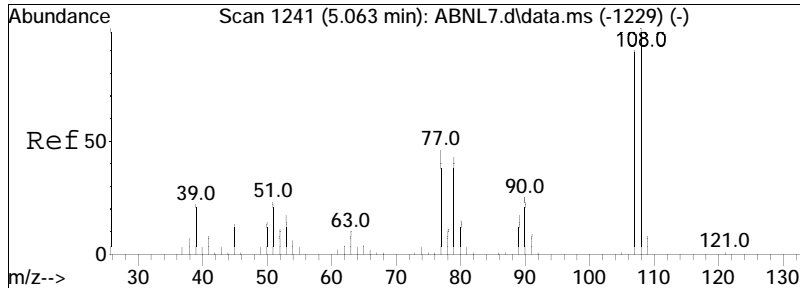




#14
 Bis(2-chloroisopropyl) ether
 Concen: 19.43 ug/ml
 RT: 4.163 min Scan# 1153
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

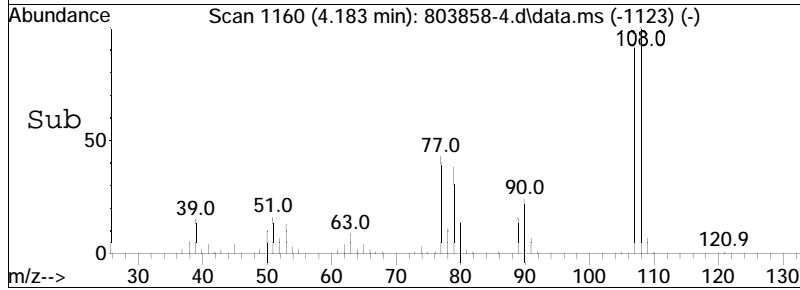
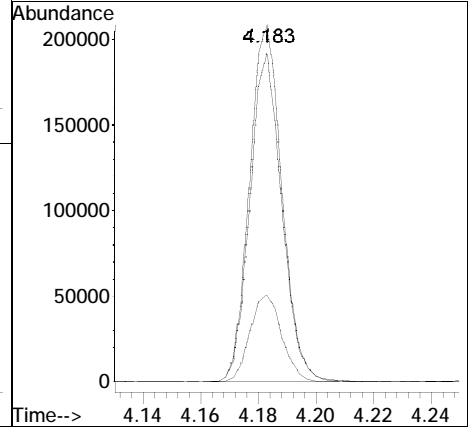
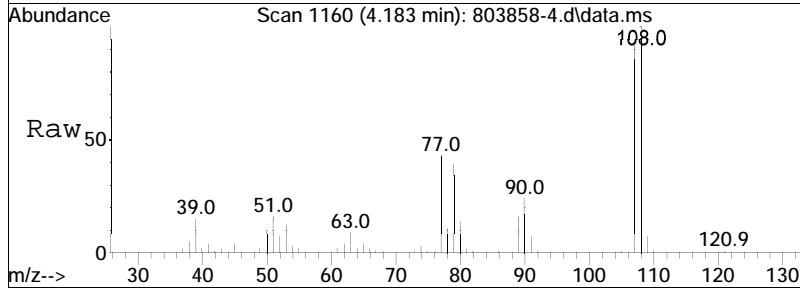
Tgt Ion:	Resp:	Lower	Upper
45	100		
121	24.4	12.6	19.0#
77	11.1	26.4	39.6#

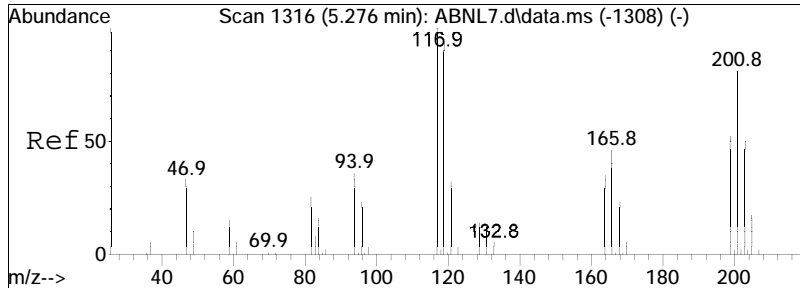




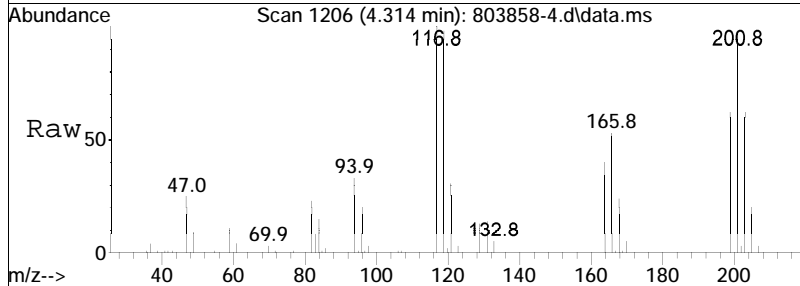
#15
 2-Methylphenol
 Concen: 26.48 ug/ml
 RT: 4.183 min Scan# 1160
 Delta R.T. 0.006 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

Tgt Ion	Resp	Lower	Upper
108	100		
107	90.5	72.8	109.2
90	24.2	20.2	30.4

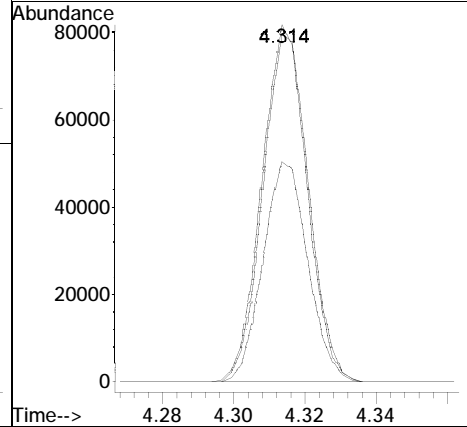
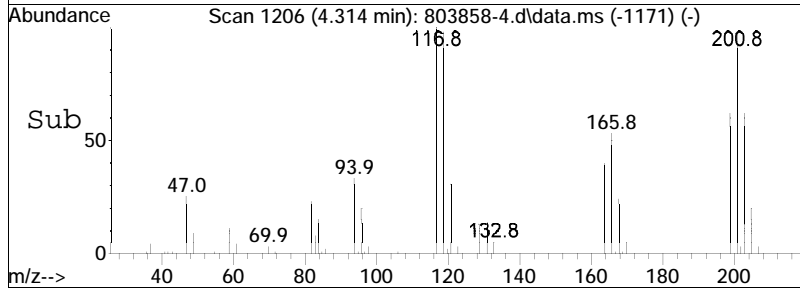


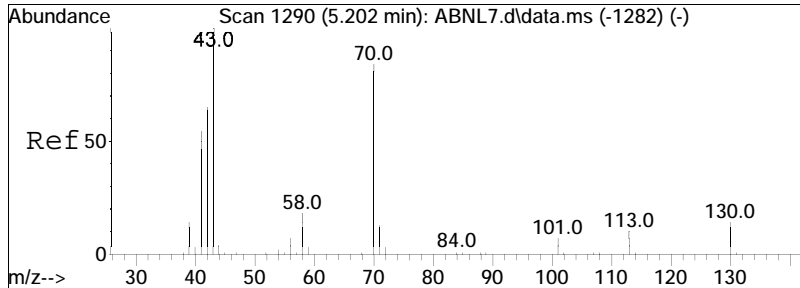


#16
 Hexachloroethane
 Concen: 24.25 ug/ml
 RT: 4.314 min Scan# 1206
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am



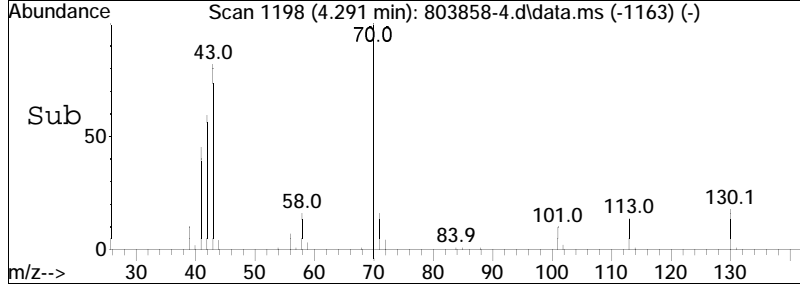
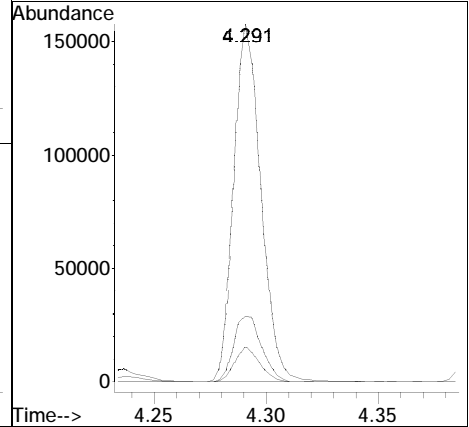
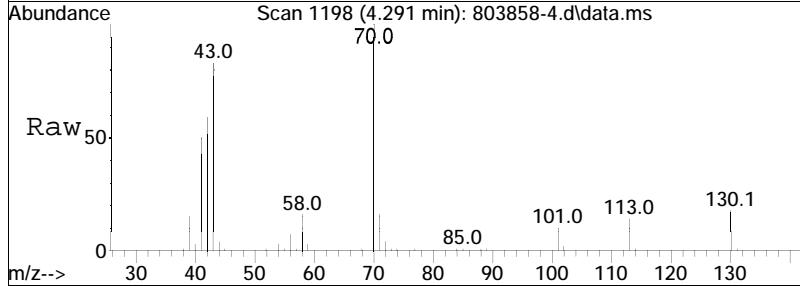
Tgt Ion	Resp	Lower	Upper
117	100		
201	98.7	64.5	96.7#
199	61.4	40.3	60.5#

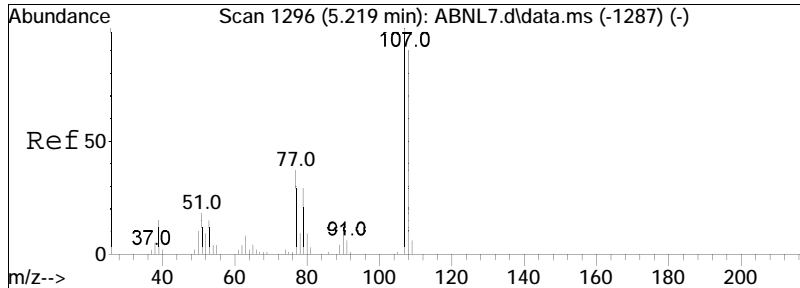




#17
 n-Nitrosodi-n-propylamine
 Concen: 30.82 ug/ml
 RT: 4.291 min Scan# 1198
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

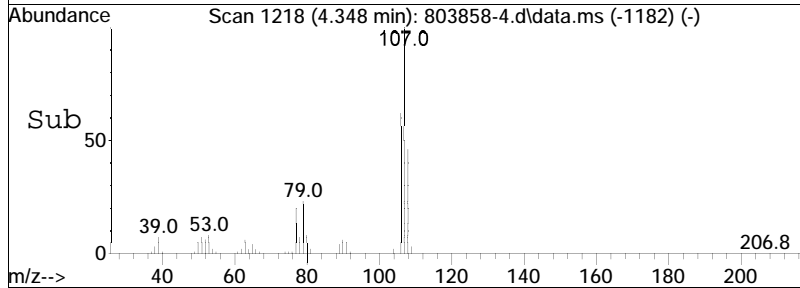
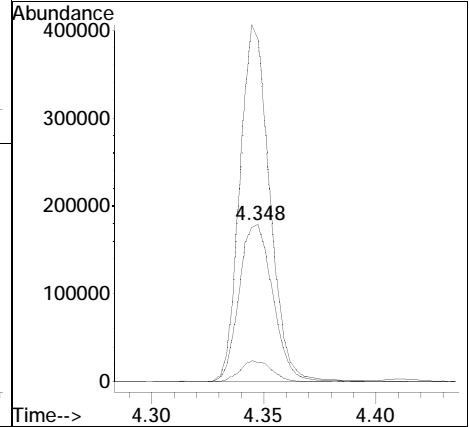
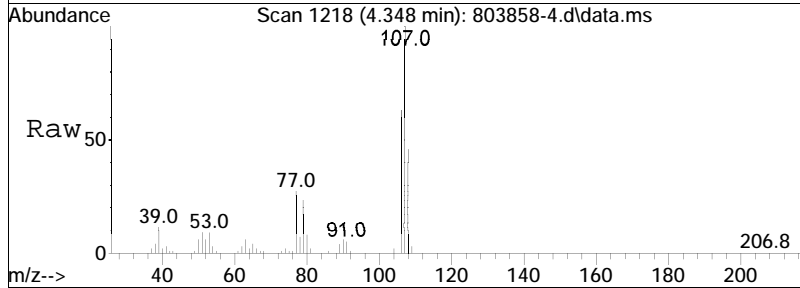
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
70	100		
130	19.1	15.0	22.4
101	9.1	7.4	11.0

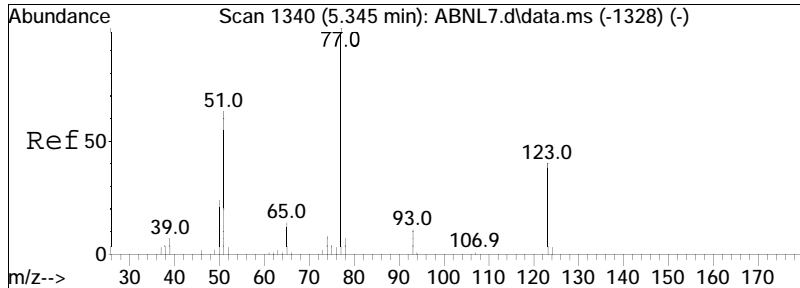




#18
 3-Methylphenol/4-Methylphenol
 Concen: 29.15 ug/ml
 RT: 4.348 min Scan# 1218
 Delta R.T. 0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

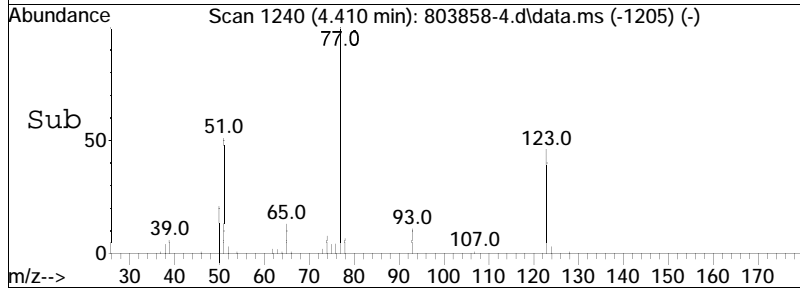
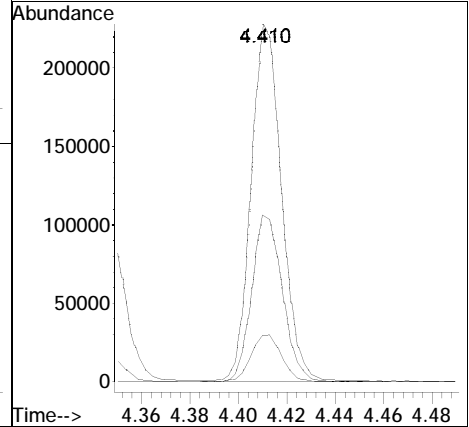
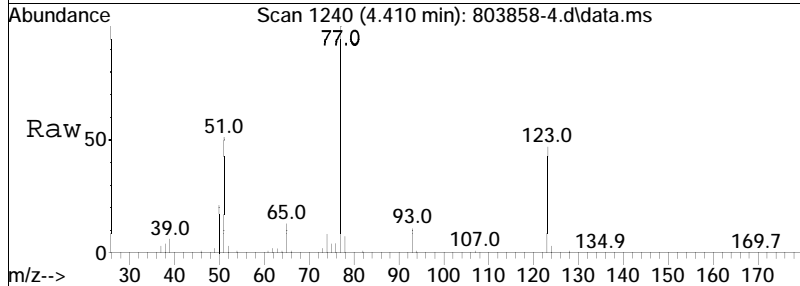
Tgt Ion	Resp	Lower	Upper
108	188184		
108	100		
107	197.8	90.4	135.6#
90	12.7	9.2	13.8

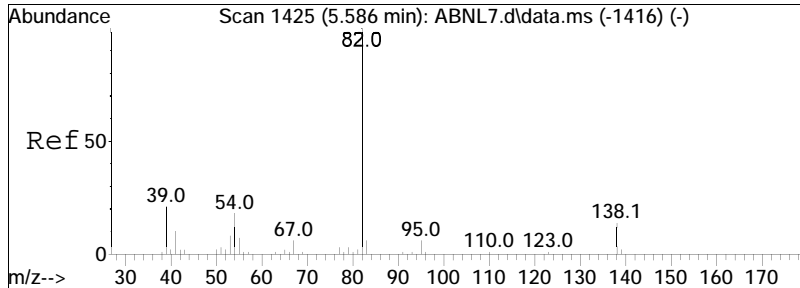




#20
 Nitrobenzene
 Concen: 30.66 ug/ml
 RT: 4.410 min Scan# 1240
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

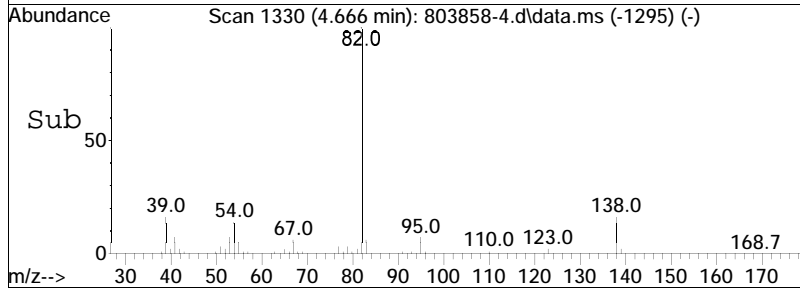
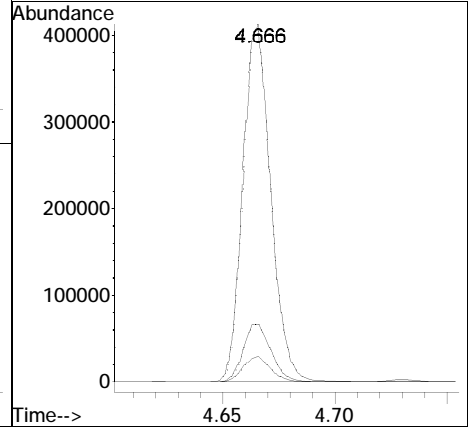
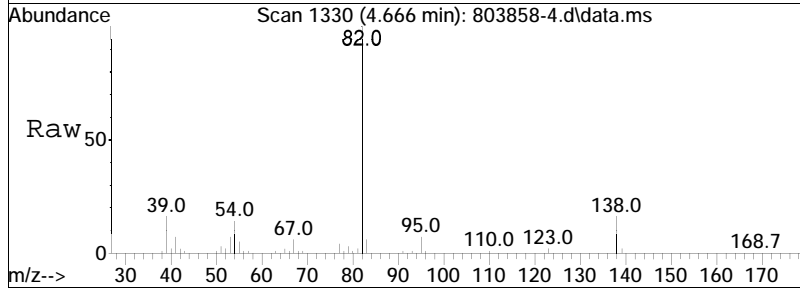
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
77	100		
123	47.4	35.0	52.4
65	13.6	11.5	17.3

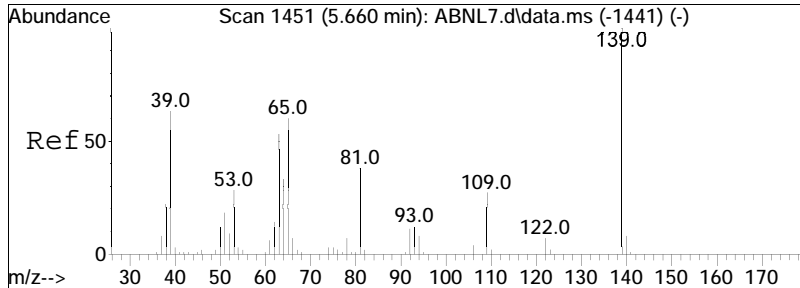




#21
 Isophorone
 Concen: 30.02 ug/ml
 RT: 4.666 min Scan# 1330
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

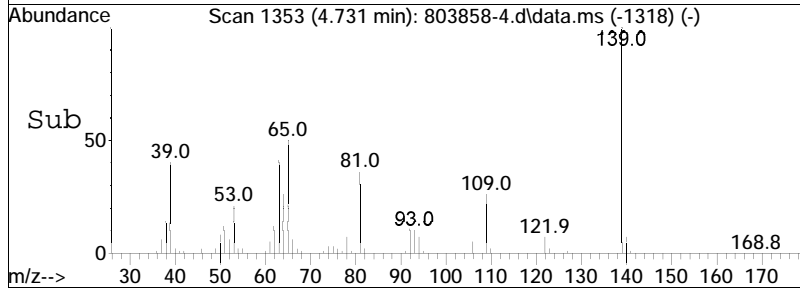
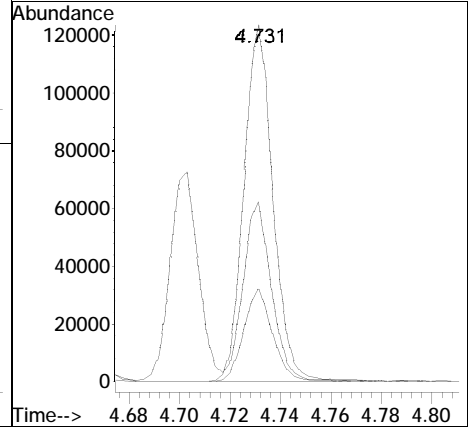
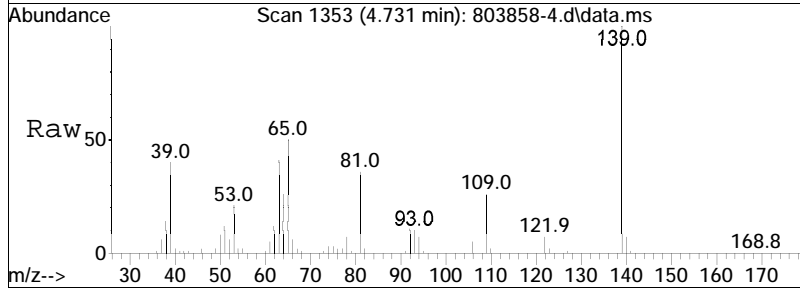
Tgt Ion:	82	Resp:	350066
Ion Ratio	100	Lower	Upper
82	100		
138	16.2	12.8	19.2
95	7.0	5.5	8.3

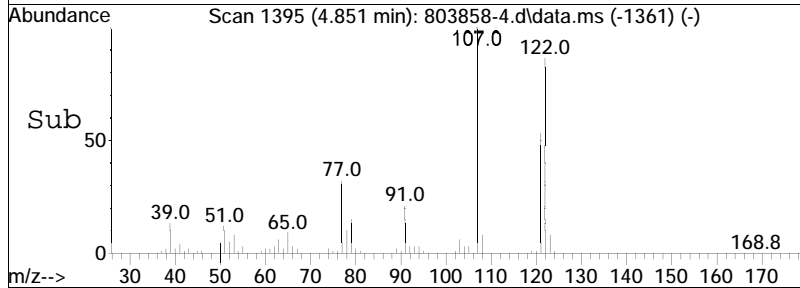
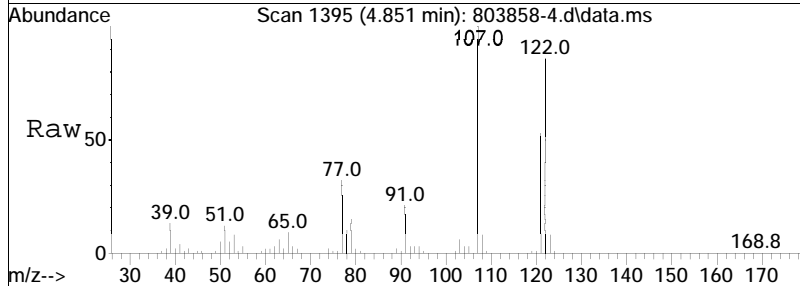
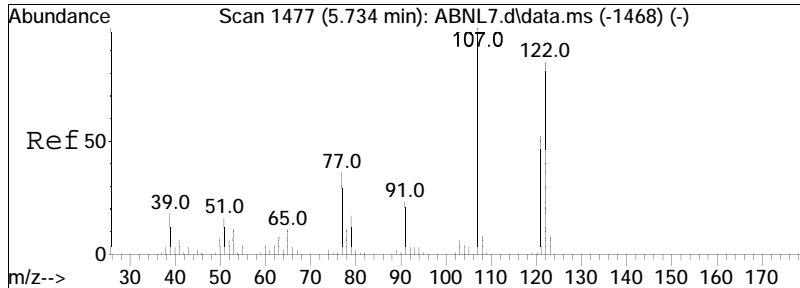




#22
 2-Nitrophenol
 Concen: 31.29 ug/ml
 RT: 4.731 min Scan# 1353
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

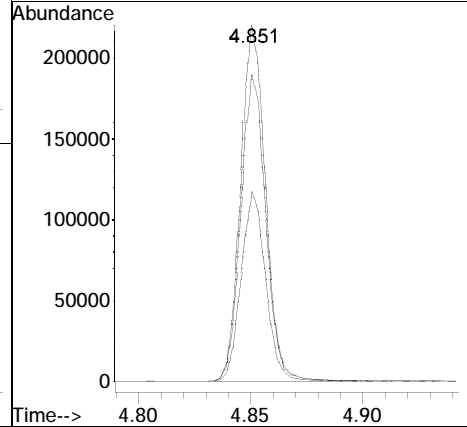
Tgt Ion	Ratio	Lower	Upper
139	100		
109	25.8	24.8	37.2
65	48.9	45.5	68.3

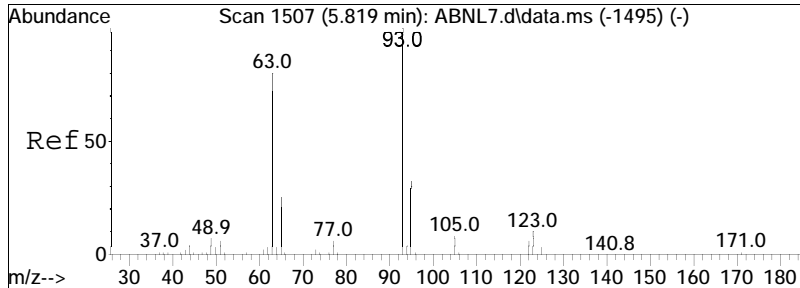




#23
 2,4-Dimethylphenol
 Concen: 25.64 ug/ml
 RT: 4.851 min Scan# 1395
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

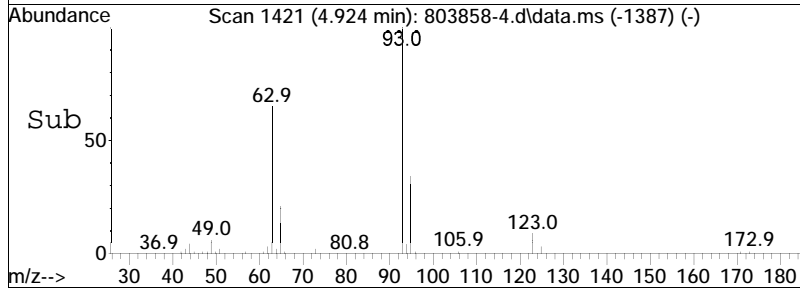
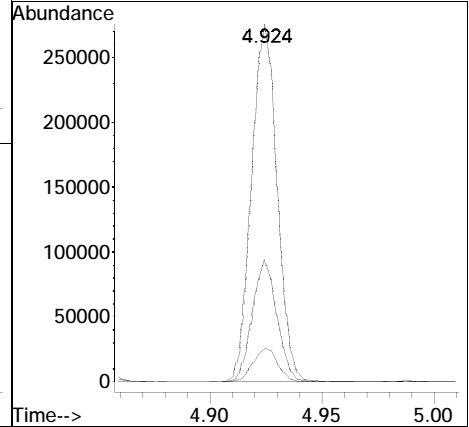
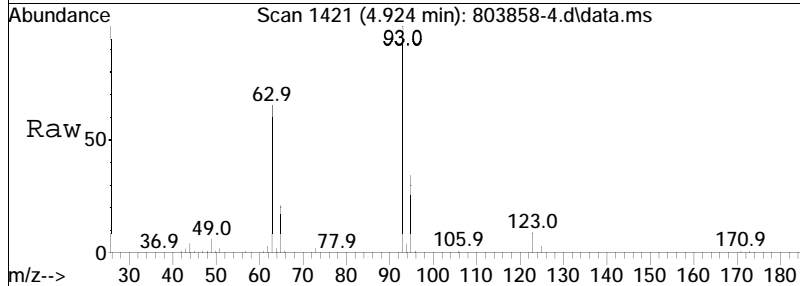
Tgt Ion	Resp	Lower	Upper
107	100		
121	52.5	39.7	59.5
122	85.9	66.8	100.2

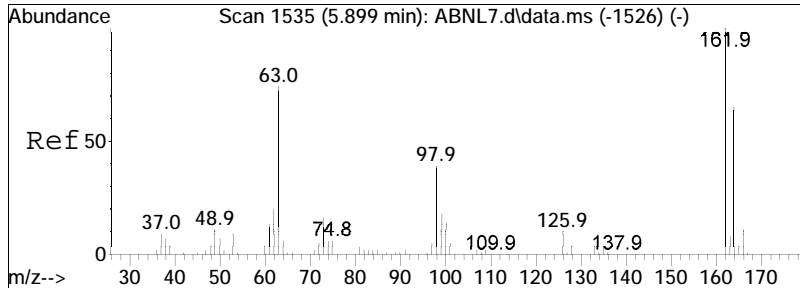




#24
 Bis(2-chloroethoxy)methane
 Concen: 28.53 ug/ml
 RT: 4.924 min Scan# 1421
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

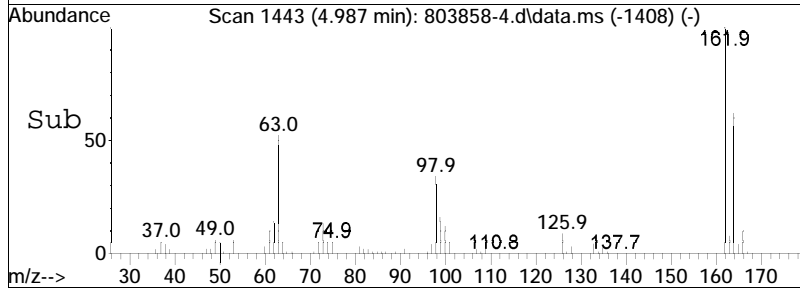
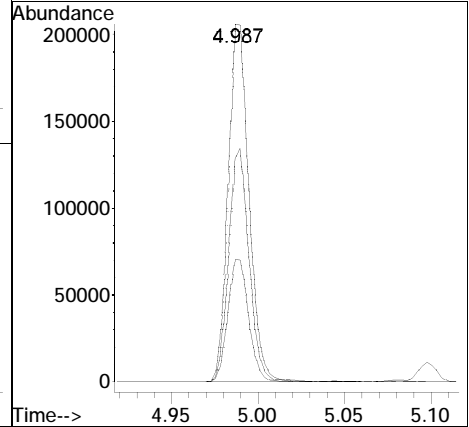
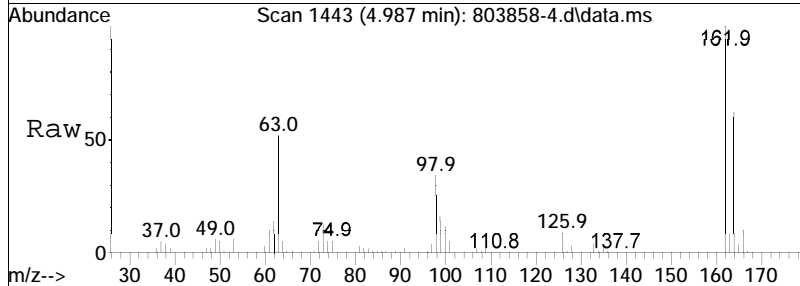
Tgt Ion:	93	Resp:	216065
Ion Ratio	Lower	Upper	
93	100		
95	32.8	26.1	39.1
123	9.3	9.8	14.8#

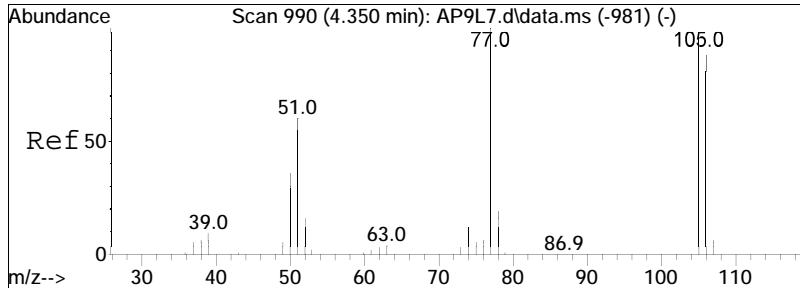




#25
 2,4-Dichlorophenol
 Concen: 29.07 ug/ml
 RT: 4.987 min Scan# 1443
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

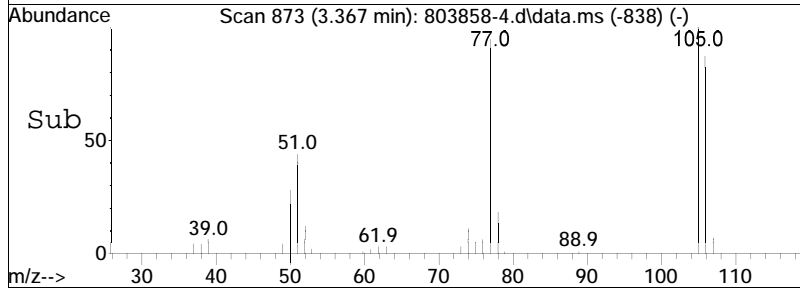
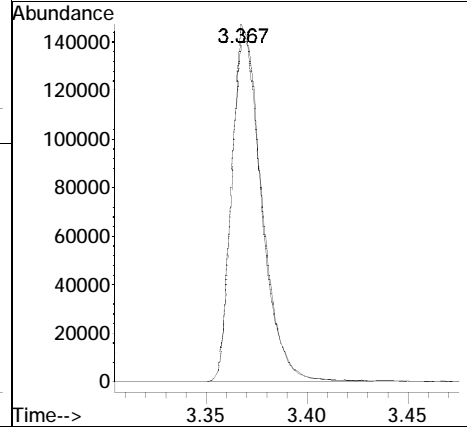
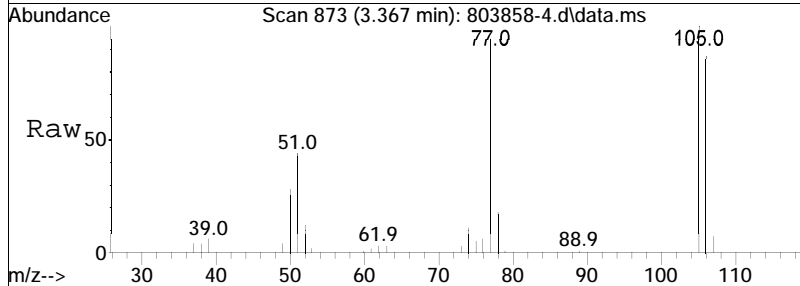
Tgt Ion	162	Resp:	170163
Ion Ratio	Lower	Upper	
162	100		
164	63.5	50.4	75.6
98	34.7	31.6	47.4

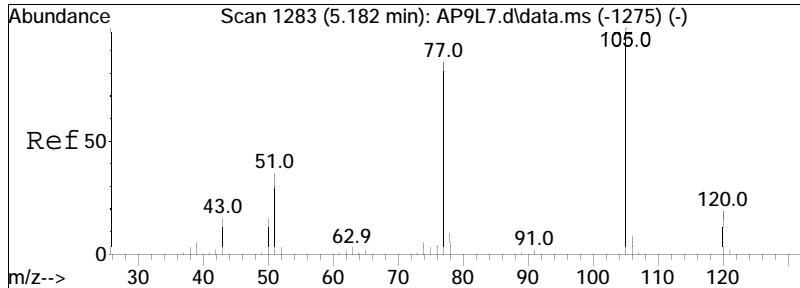




#28
 Benzaldehyde
 Concen: 31.78 ug/ml
 RT: 3.367 min Scan# 873
 Delta R.T. 0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

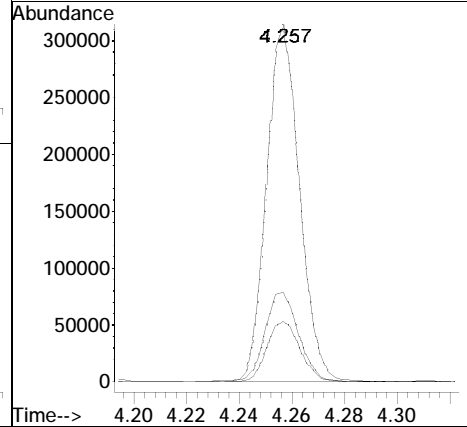
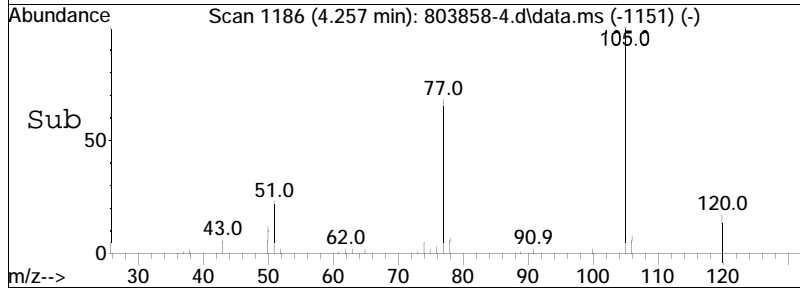
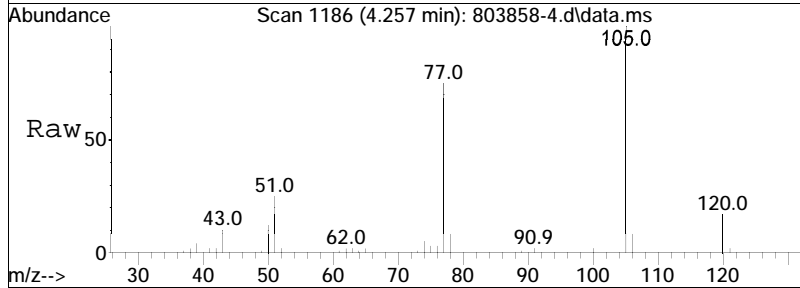
Tgt Ion	Resp	Lower	Upper
105	151173		
77	96.3	72.0	108.0

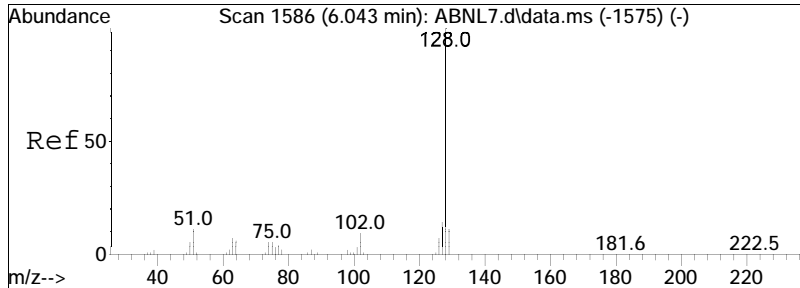




#29
 Acetophenone
 Concen: 28.07 ug/ml
 RT: 4.257 min Scan# 1186
 Delta R.T. 0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

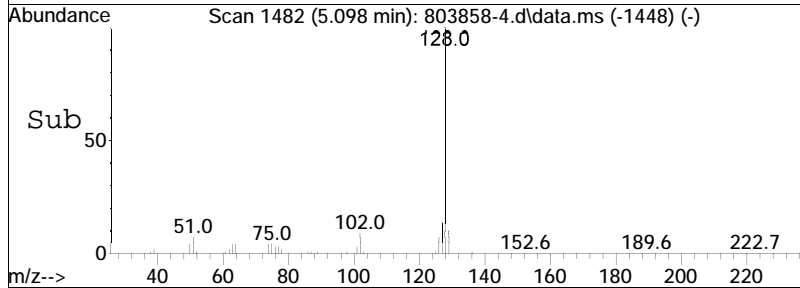
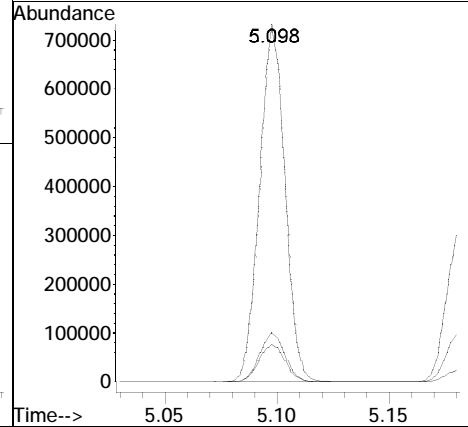
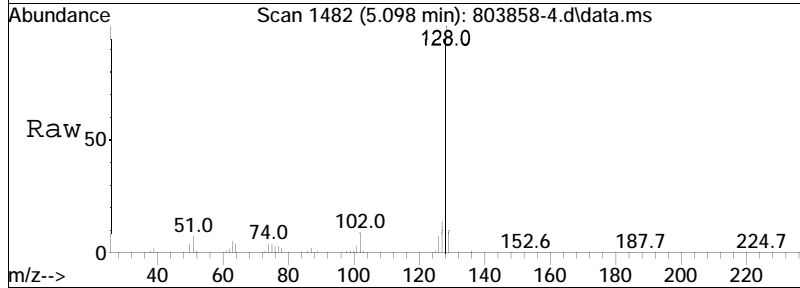
Tgt Ion	Ratio	Lower	Upper
105	100		
120	17.5	18.0	27.0#
51	26.2	23.8	35.6

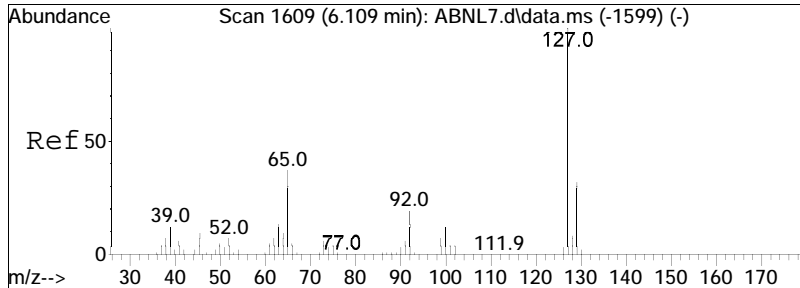




#36
 Naphthalene
 Concen: 24.83 ug/ml
 RT: 5.098 min Scan# 1482
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

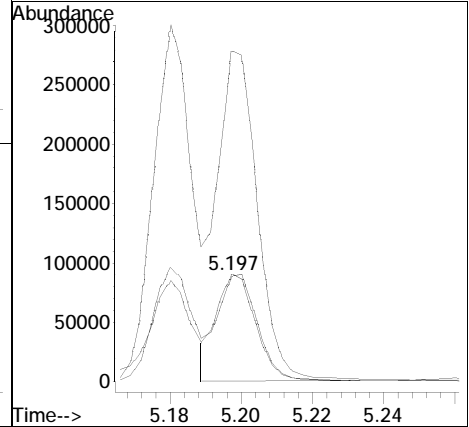
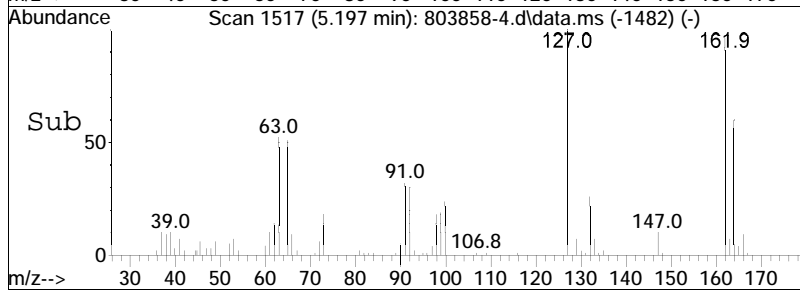
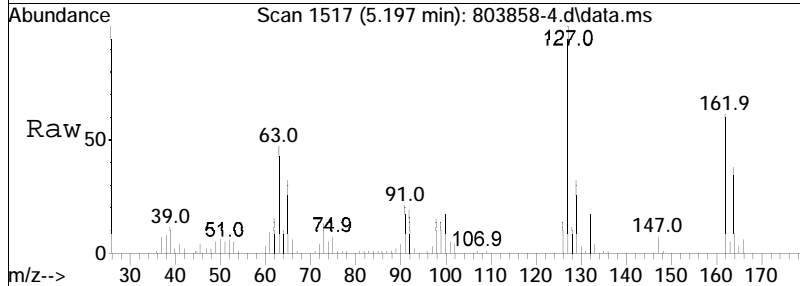
Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.8	10.7	16.1

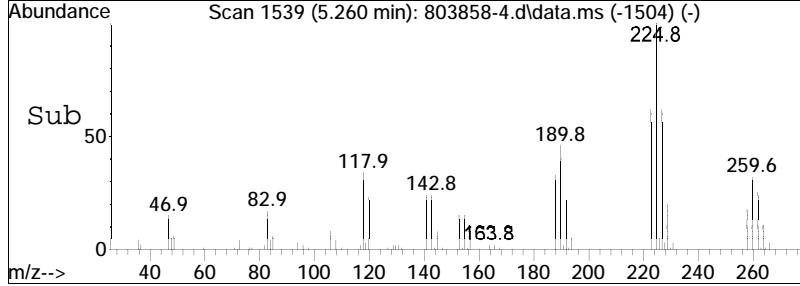
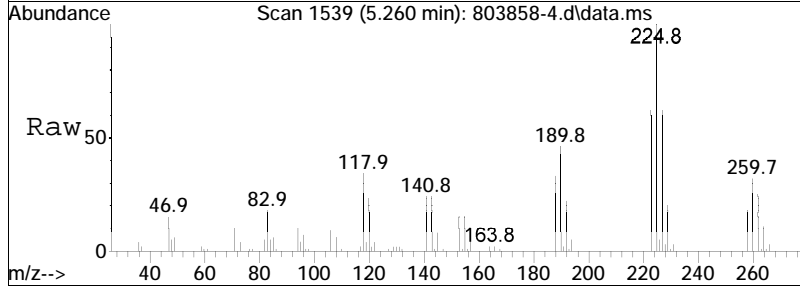
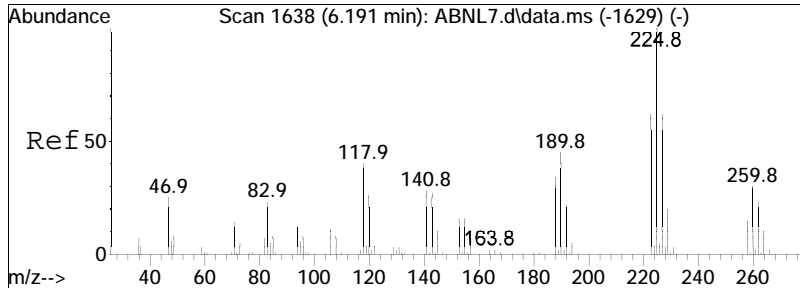




#38
 4-Chloroaniline
 Concen: 29.26 ug/ml
 RT: 5.197 min Scan# 1517
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

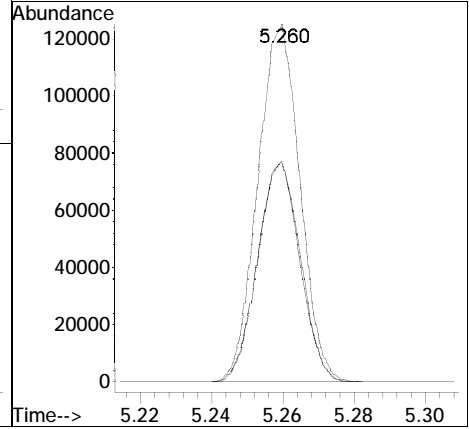
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
65	100		
127	315.2	233.2	349.8
129	102.5	74.6	111.8

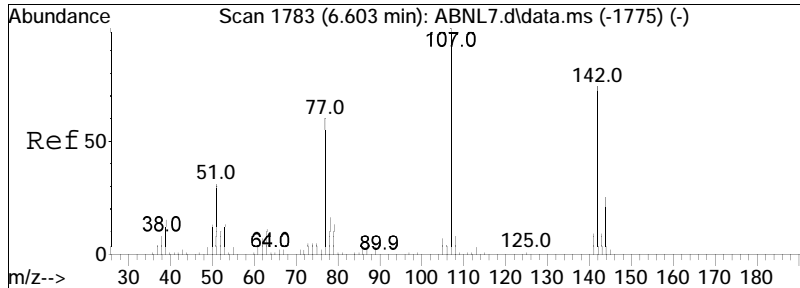




#39
 Hexachlorobutadiene
 Concen: 26.83 ug/ml
 RT: 5.260 min Scan# 1539
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

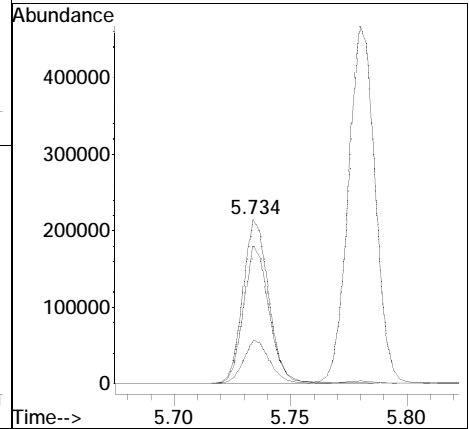
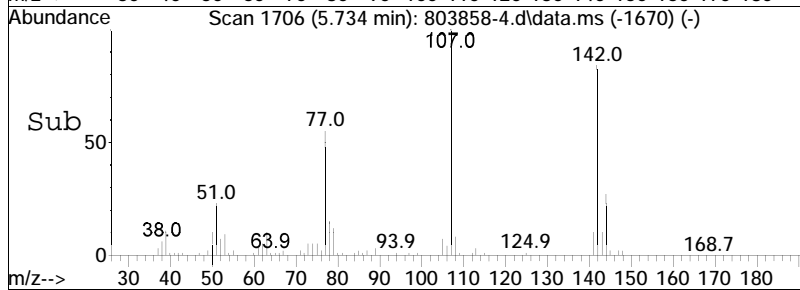
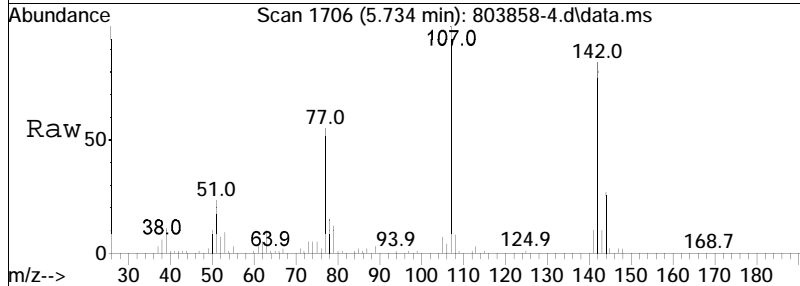
Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.3	49.4	74.0
227	62.8	50.8	76.2

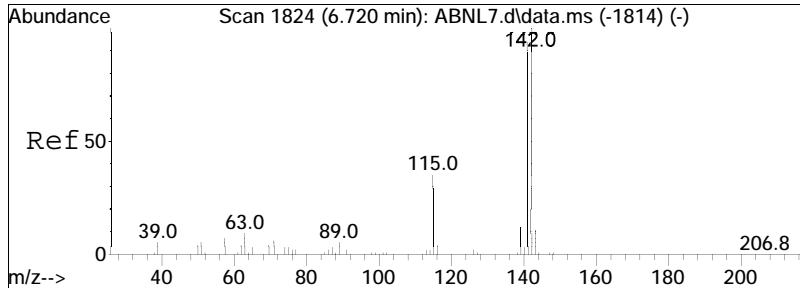




#40
 p-Chloro-m-cresol
 Concen: 28.90 ug/ml
 RT: 5.734 min Scan# 1706
 Delta R.T. 0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

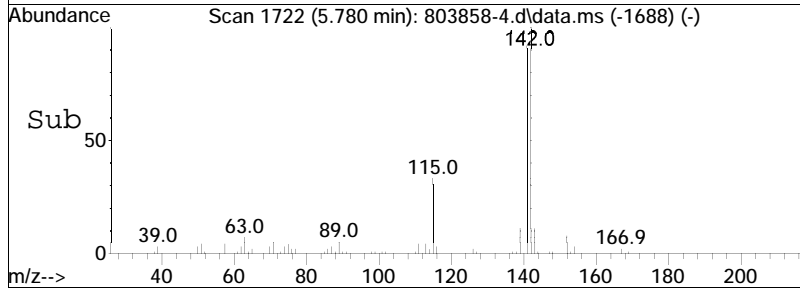
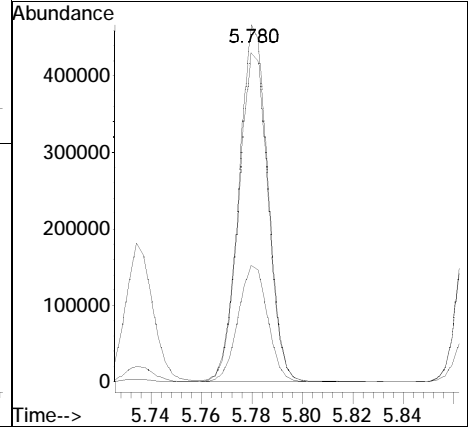
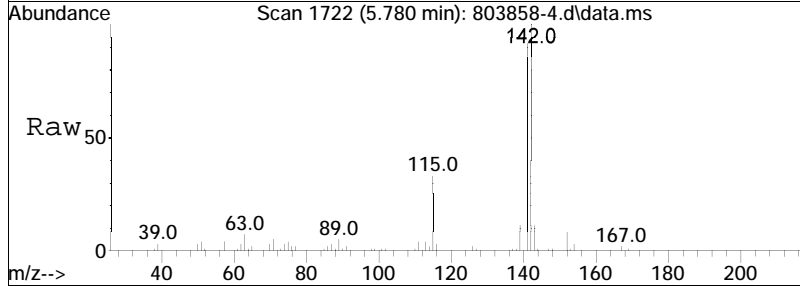
Tgt Ion	Resp	Lower	Upper
107	100		
144	26.6	19.6	29.4
142	82.2	62.2	93.4

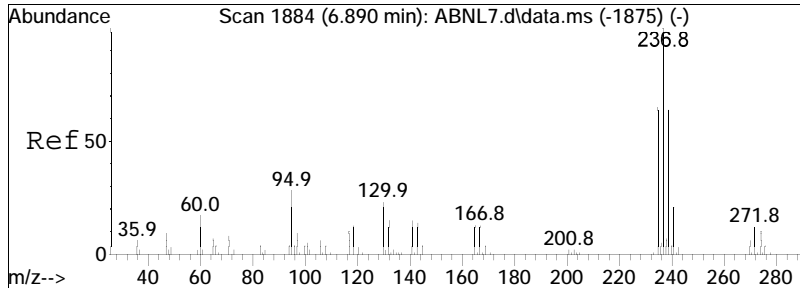




#41
 2-Methylnaphthalene
 Concen: 25.93 ug/ml
 RT: 5.780 min Scan# 1722
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

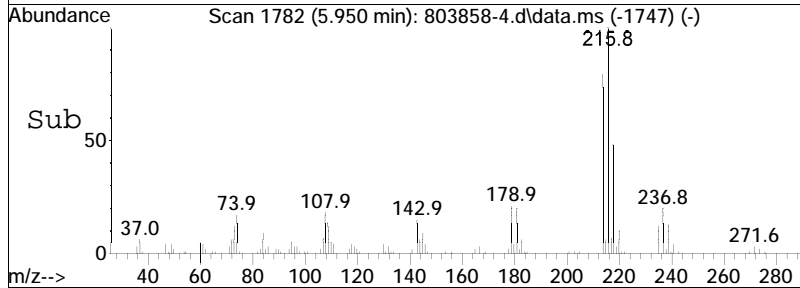
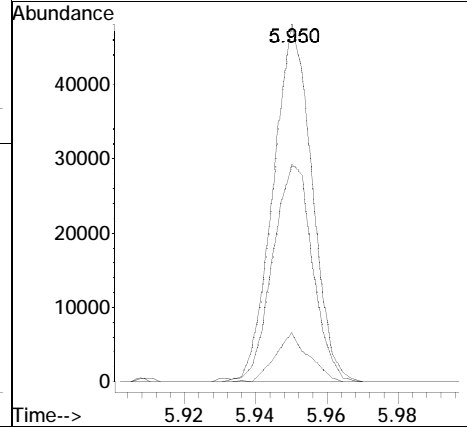
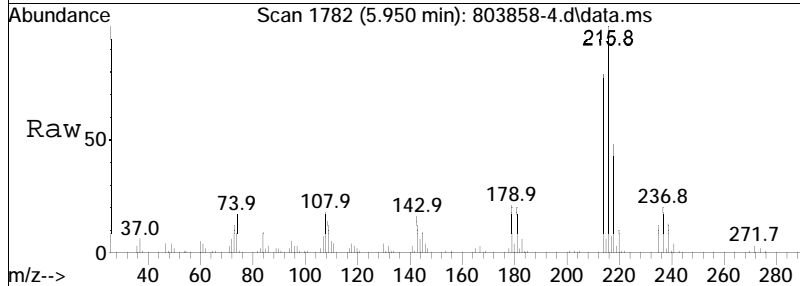
Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.5	71.8	107.8
115	33.3	29.1	43.7

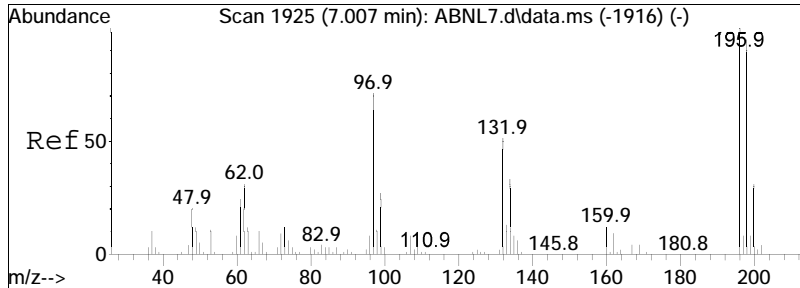




#43
 Hexachlorocyclopentadiene
 Concen: 8.75 ug/ml
 RT: 5.950 min Scan# 1782
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

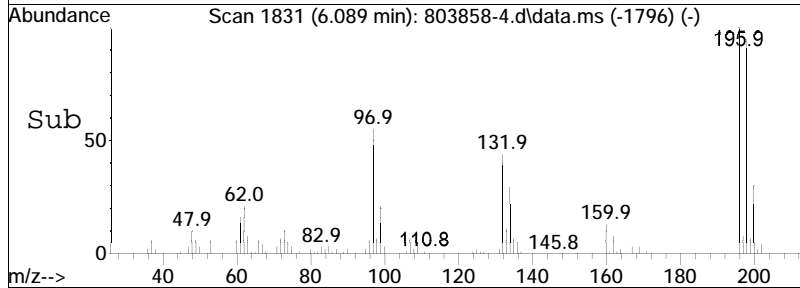
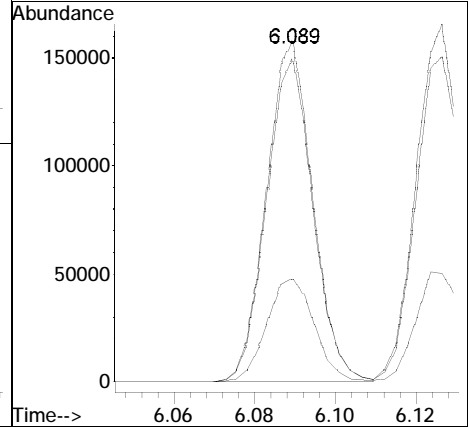
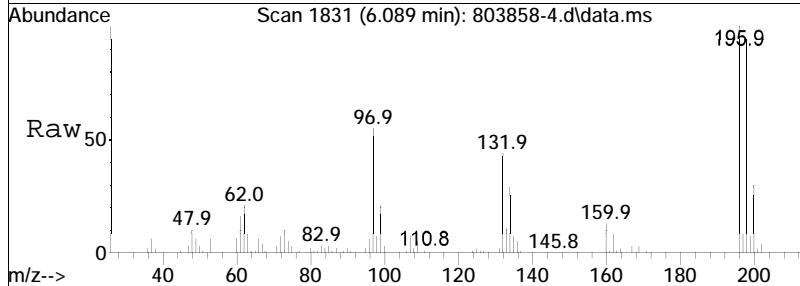
Tgt Ion	Resp	Lower	Upper
237	100		
235	62.5	47.8	71.6
272	11.9	10.4	15.6

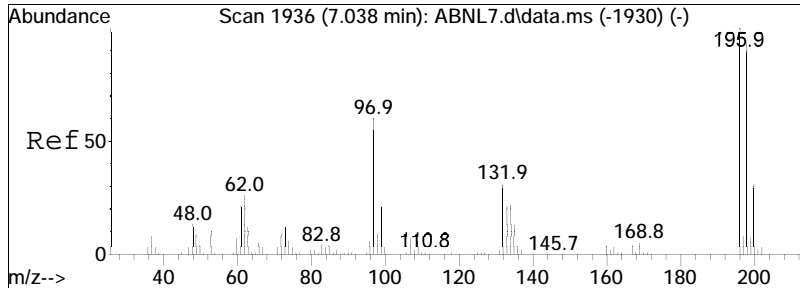




#44
 2,4,6-Trichlorophenol
 Concen: 30.74 ug/ml
 RT: 6.089 min Scan# 1831
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

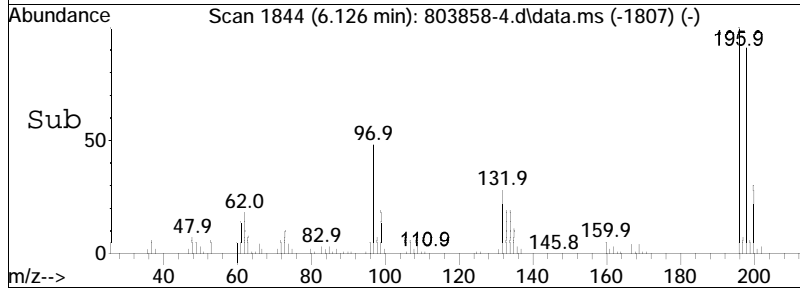
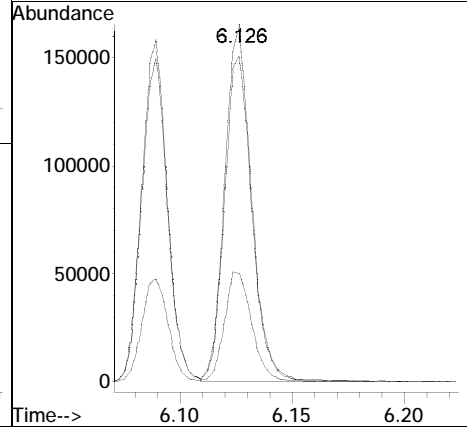
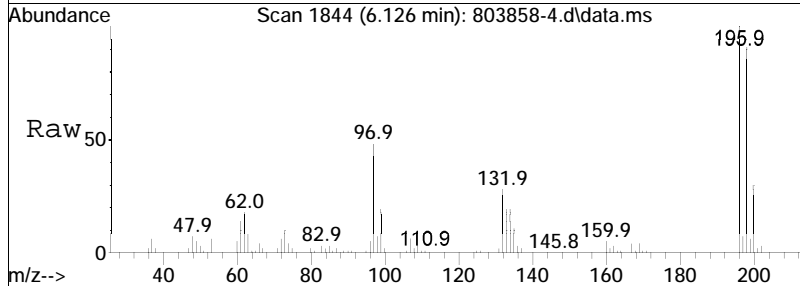
Tgt Ion	Resp	Lower	Upper
196	125554		
196	100		
198	95.1	81.5	122.3
200	31.2	26.2	39.2

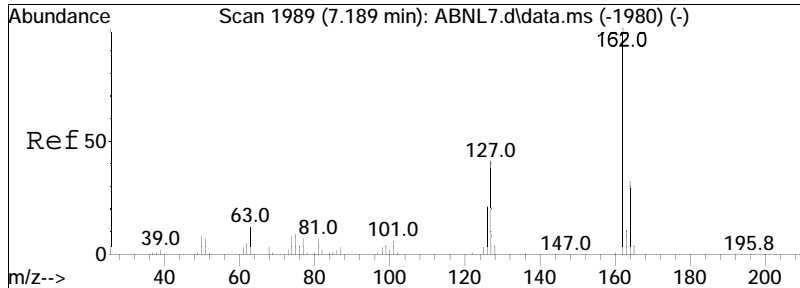




#45
 2,4,5-Trichlorophenol
 Concen: 29.77 ug/ml
 RT: 6.126 min Scan# 1844
 Delta R.T. 0.006 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

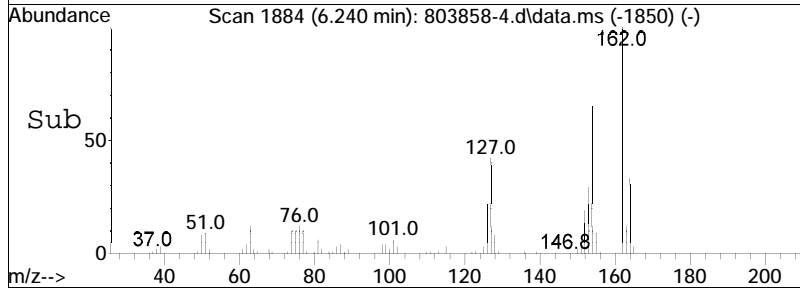
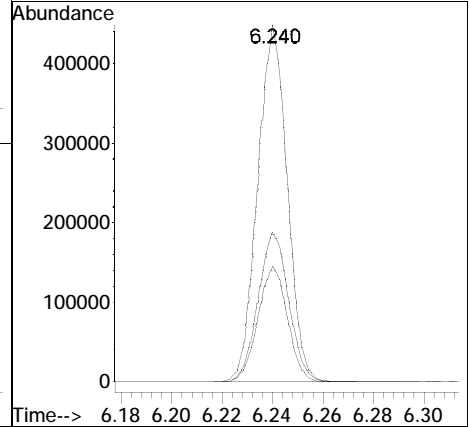
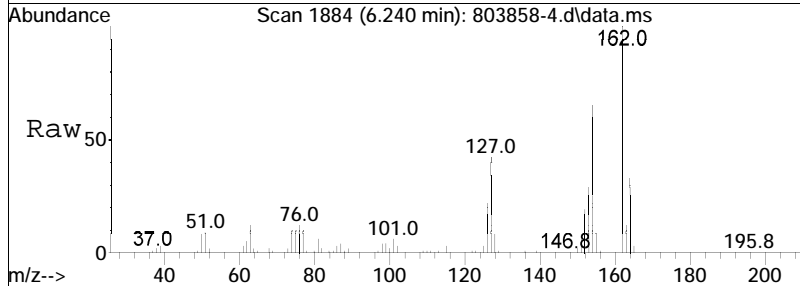
Tgt Ion	Resp	Lower	Upper
196	100		
200	31.5	25.5	38.3
198	92.9	79.2	118.8

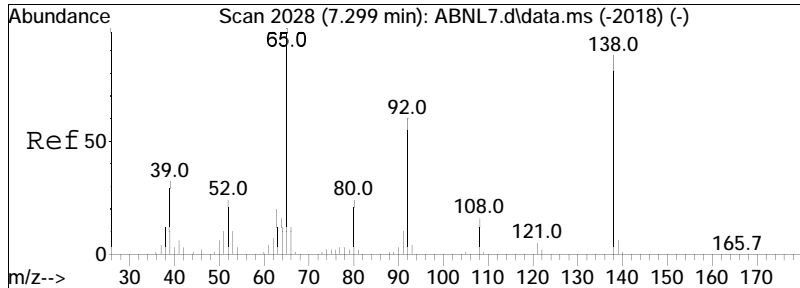




#47
 2-Chloronaphthalene
 Concen: 25.56 ug/ml
 RT: 6.240 min Scan# 1884
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

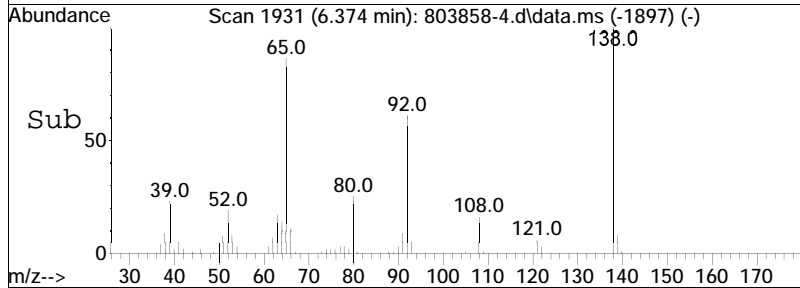
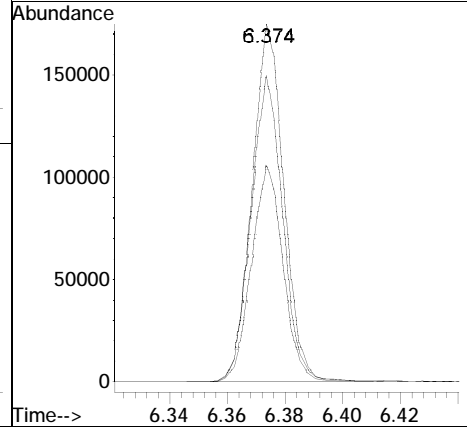
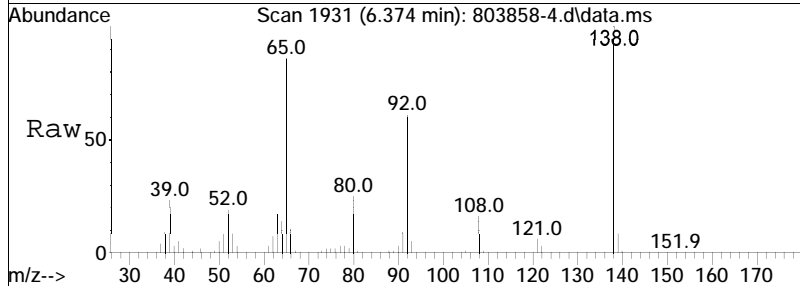
Tgt Ion	Ratio	Lower	Upper
162	100		
127	43.5	33.6	50.4
164	32.6	25.8	38.8

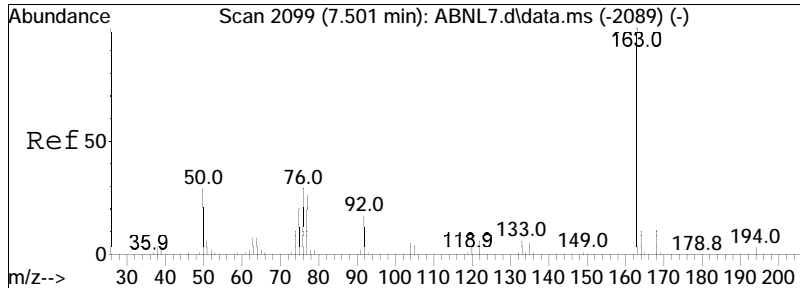




#48
 2-Nitroaniline
 Concen: 30.05 ug/ml
 RT: 6.374 min Scan# 1931
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

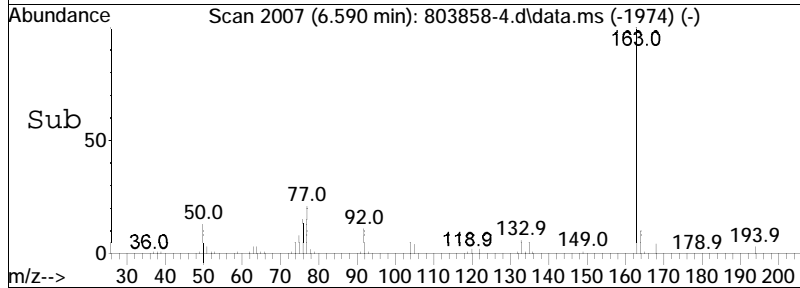
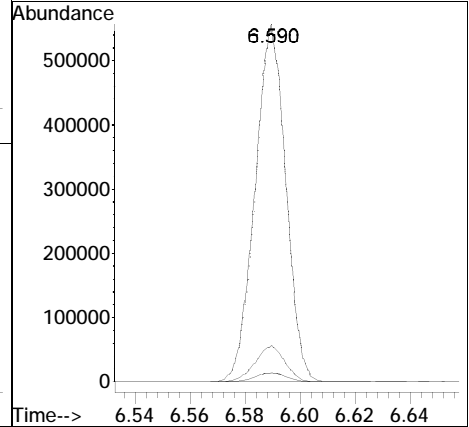
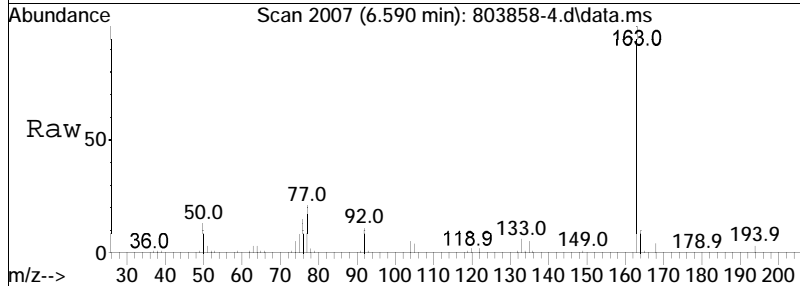
Tgt Ion	Resp	Lower	Upper
138	132547		
138	100		
92	60.3	54.2	81.2
65	85.4	82.8	124.2

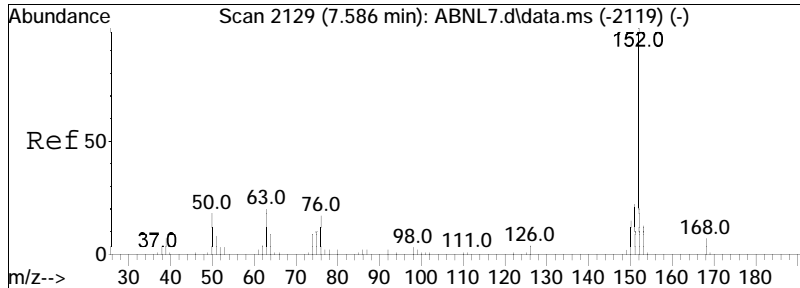




#51
 Dimethyl phthalate
 Concen: 26.27 ug/ml
 RT: 6.590 min Scan# 2007
 Delta R.T. -0.006 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

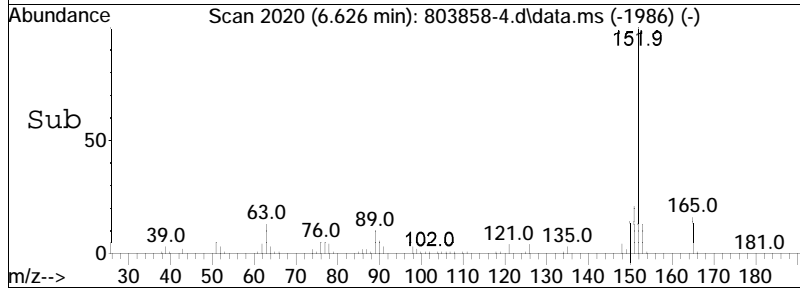
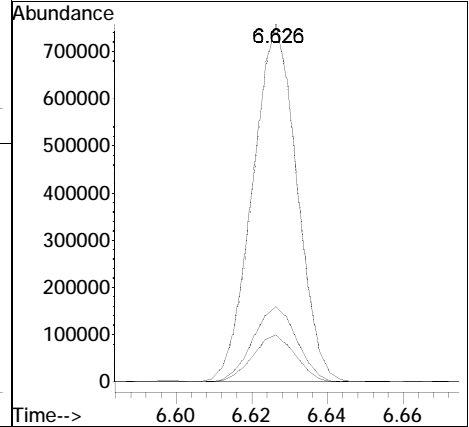
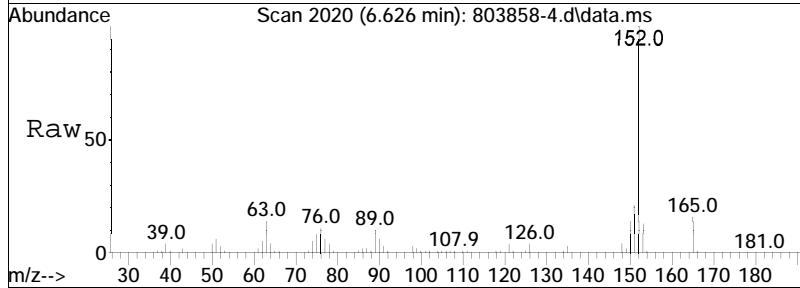
Tgt Ion	163	194	164	Resp	Lower	Upper
163	100			426184		
194	2.7	2.6	4.0			
164	10.0	8.2	12.4			

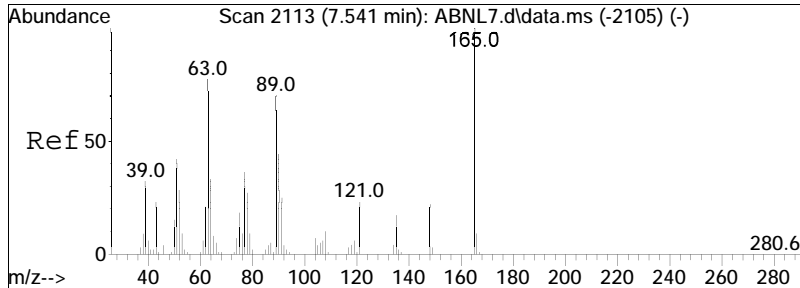




#52
 Acenaphthylene
 Concen: 28.16 ug/ml
 RT: 6.626 min Scan# 2020
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

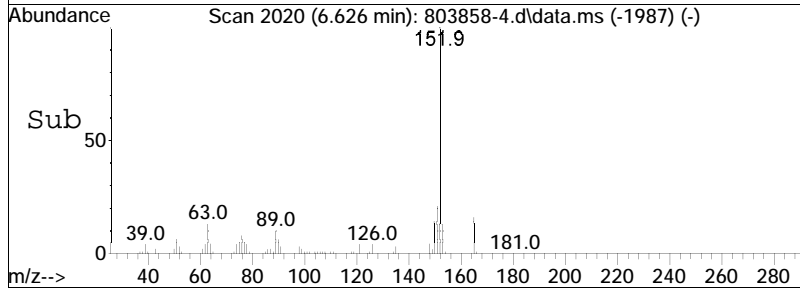
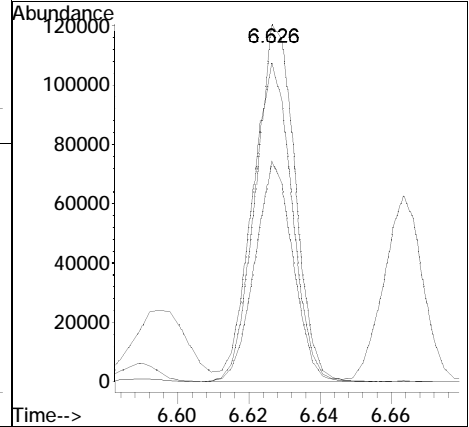
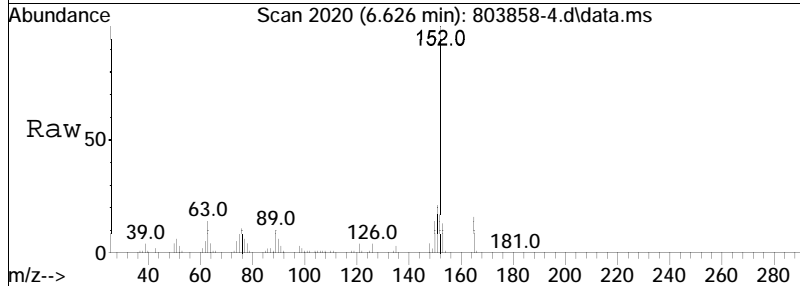
Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.4	24.6
153	13.0	11.0	16.6

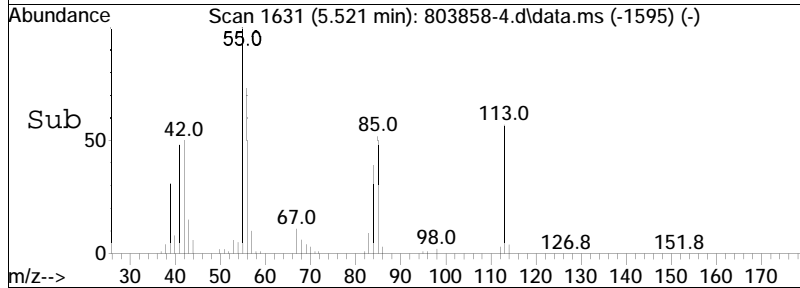
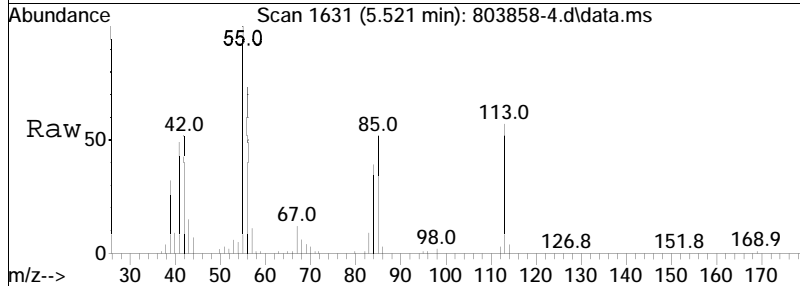
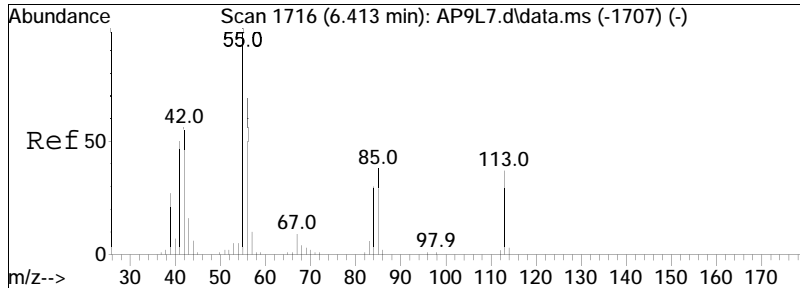




#53
 2,6-Dinitrotoluene
 Concen: 27.63 ug/ml
 RT: 6.626 min Scan# 2020
 Delta R.T. -0.006 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

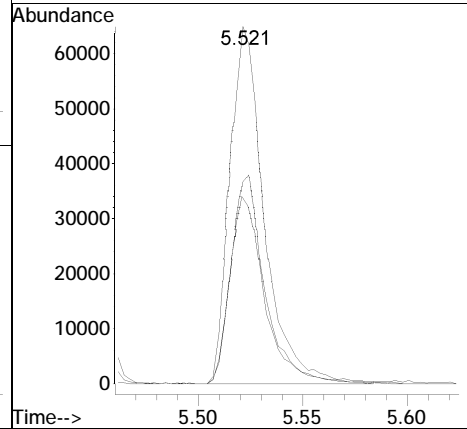
Tgt Ion	Resp	Lower	Upper
165	100		
89	60.1	50.4	75.6
63	91.1	56.9	85.3#

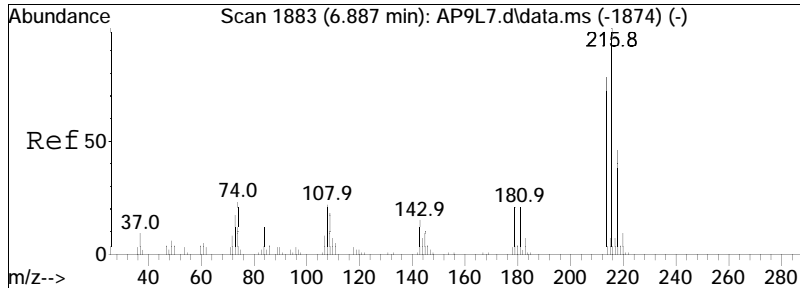




#60
 Caprolactam
 Concen: 25.95 ug/ml
 RT: 5.521 min Scan# 1631
 Delta R.T. 0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

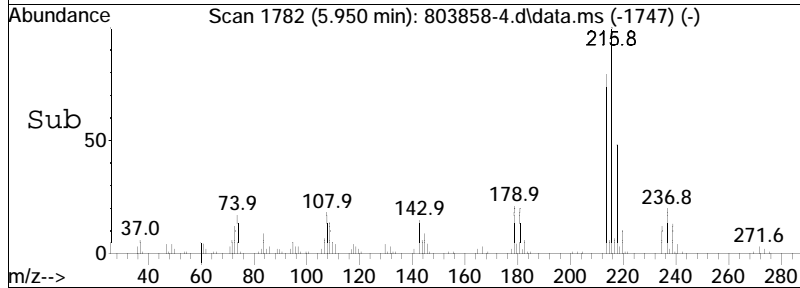
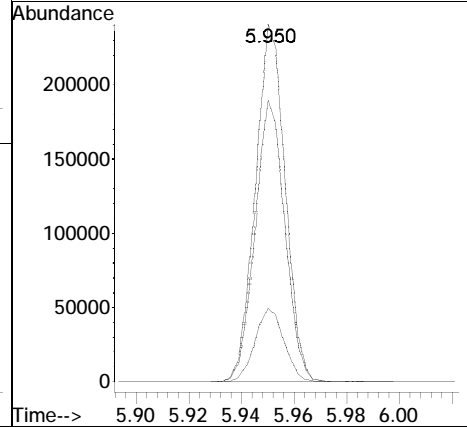
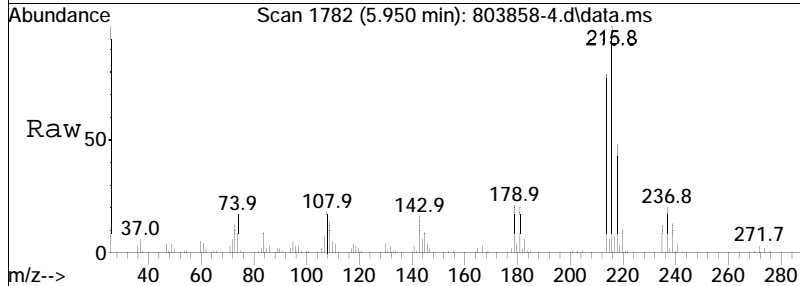
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
55	100		
85	53.0	32.6	48.8#
113	57.2	44.6	66.8

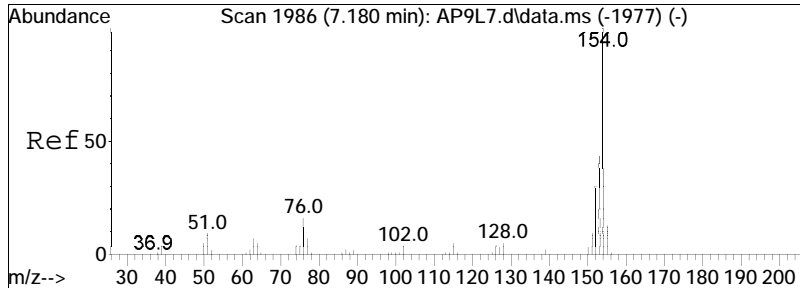




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 28.39 ug/ml
 RT: 5.950 min Scan# 1782
 Delta R.T. 0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

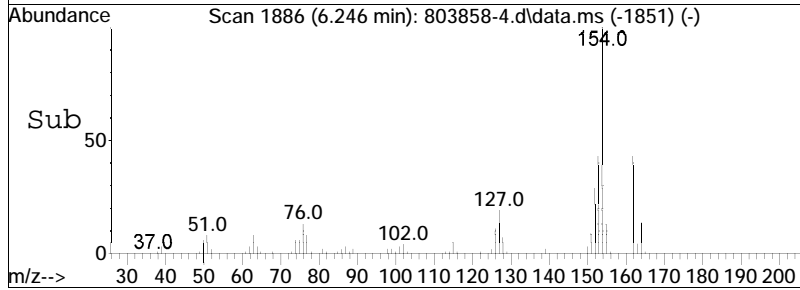
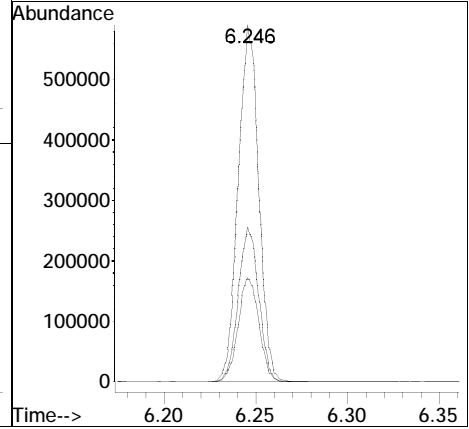
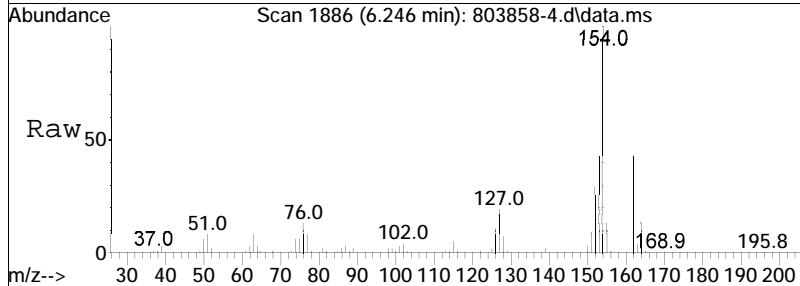
Tgt Ion	Ratio	Lower	Upper
216	100		
214	78.7	63.0	94.6
179	20.3	17.4	26.2

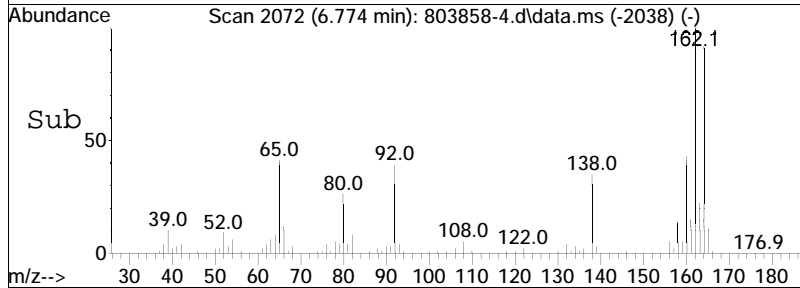
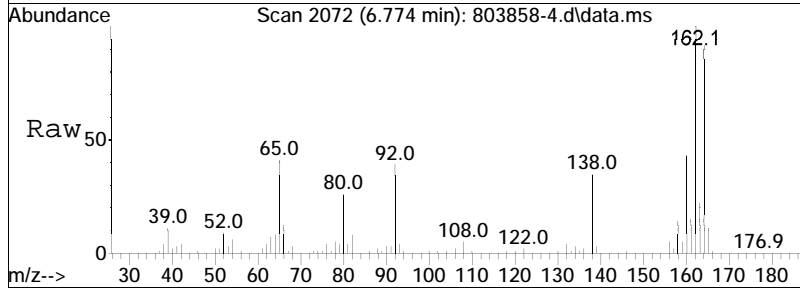
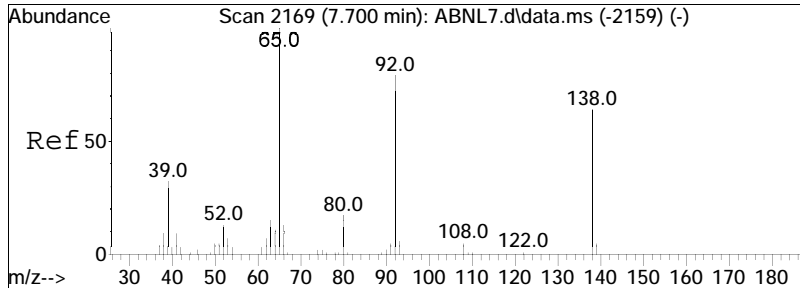




#62
 Biphenyl
 Concen: 25.43 ug/ml
 RT: 6.246 min Scan# 1886
 Delta R.T. 0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

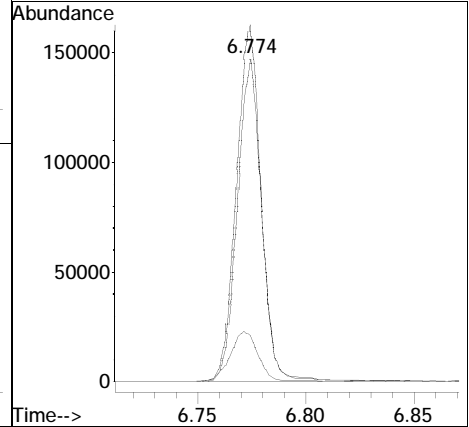
Tgt Ion	Resp	Lower	Upper
154	100		
153	43.3	33.5	50.3
152	29.7	22.6	34.0

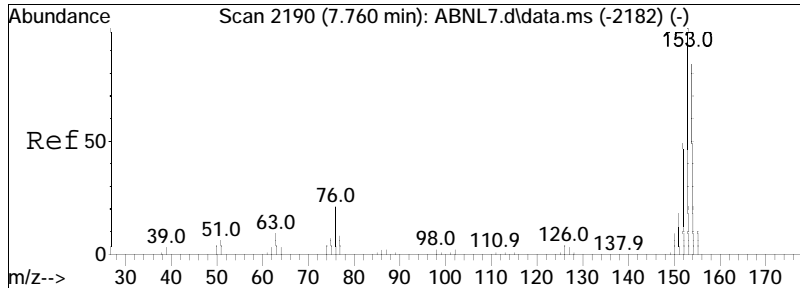




#64
 3-Nitroaniline
 Concen: 27.02 ug/ml
 RT: 6.774 min Scan# 2072
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

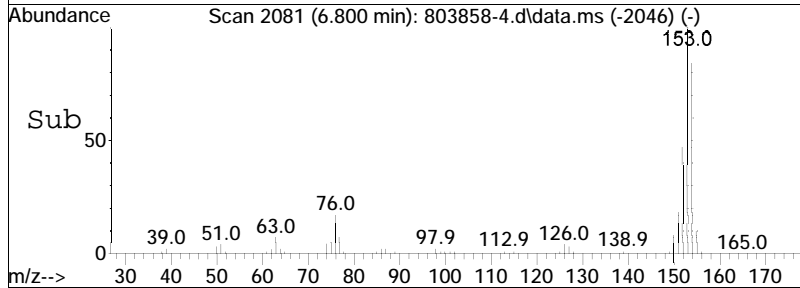
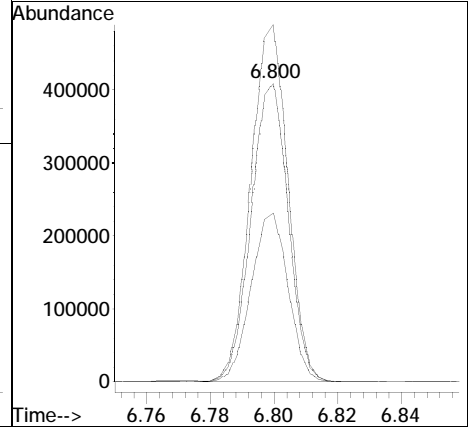
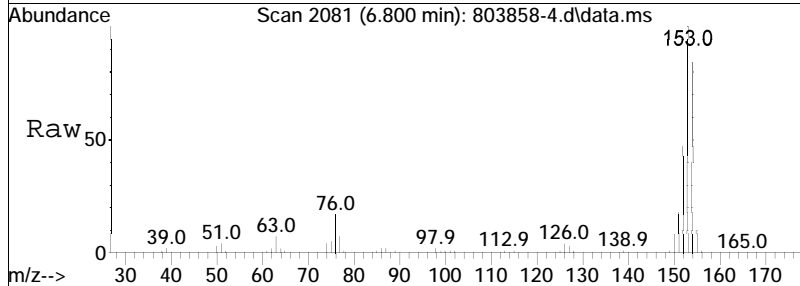
Tgt Ion	Resp	Lower	Upper
138	113798		
138	100		
92	112.2	95.4	143.2
108	17.9	8.6	12.8#

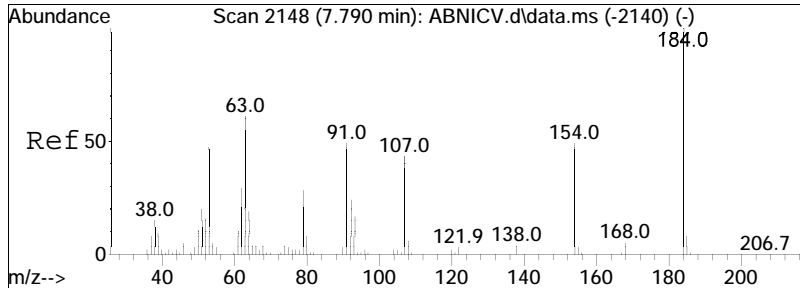




#65
 Acenaphthene
 Concen: 23.76 ug/ml
 RT: 6.800 min Scan# 2081
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

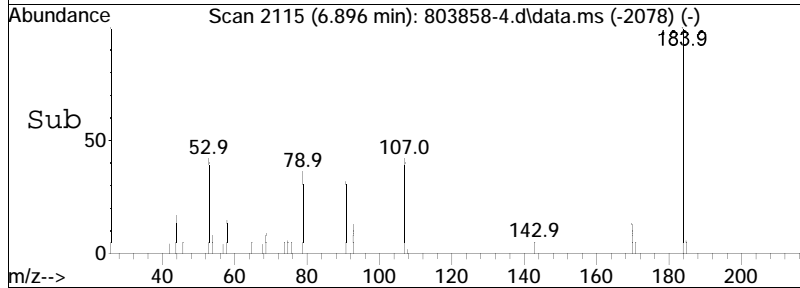
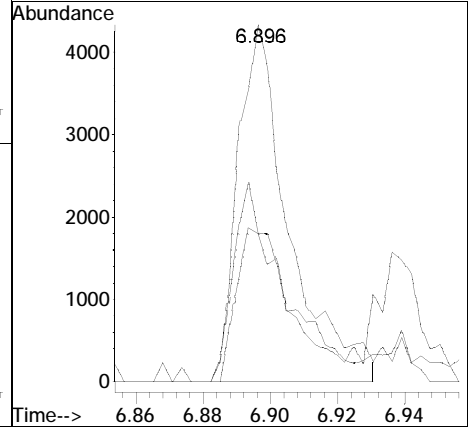
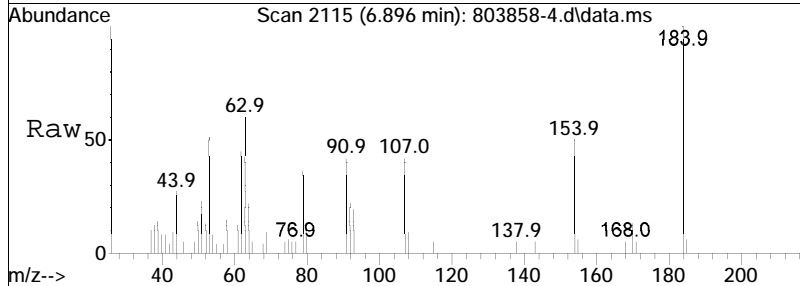
Tgt Ion	Resp	Lower	Upper
154	329738		
153	120.0	91.3	136.9
152	56.9	41.0	61.4

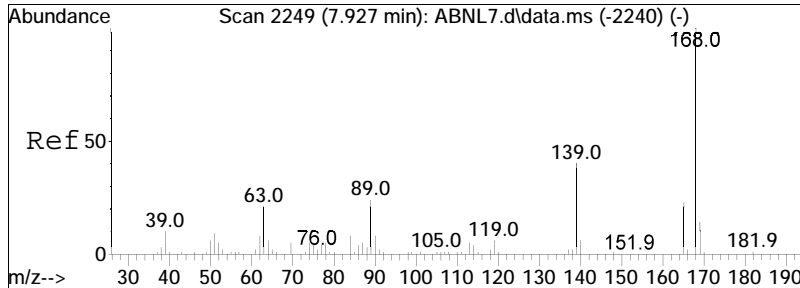




#66
 2,4-Dinitrophenol
 Concen: 5.88 ug/ml
 RT: 6.896 min Scan# 2115
 Delta R.T. 0.006 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

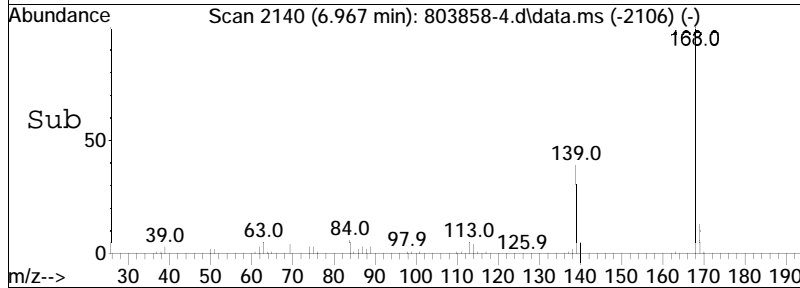
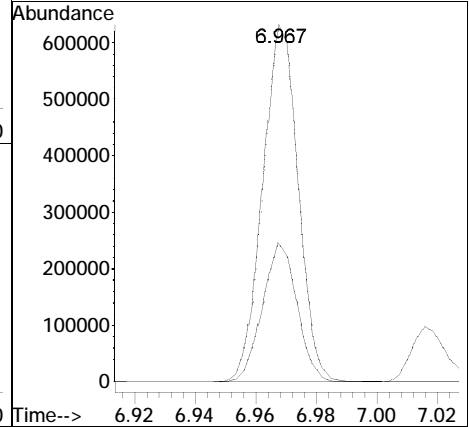
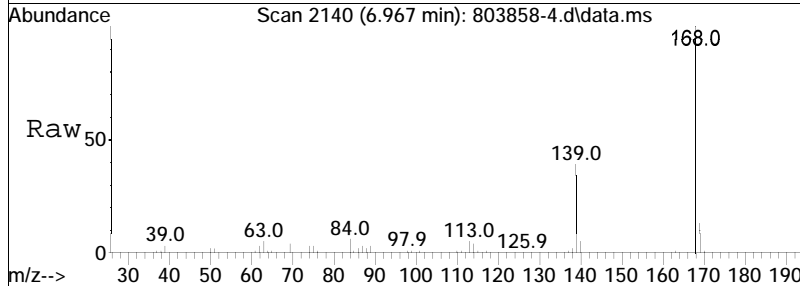
Tgt Ion	Ratio	Lower	Upper
184	100		
107	45.3	41.8	62.6
91	56.5	46.1	69.1

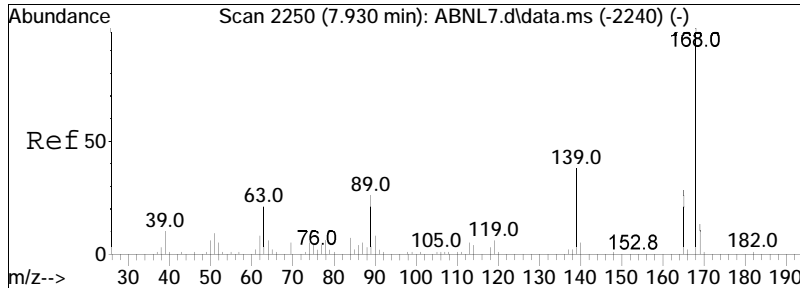




#67
 Dibenzofuran
 Concen: 23.71 ug/ml
 RT: 6.967 min Scan# 2140
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

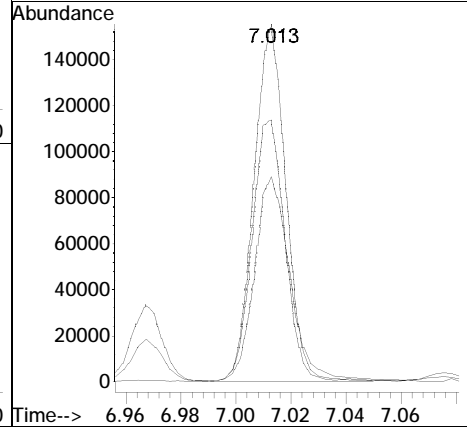
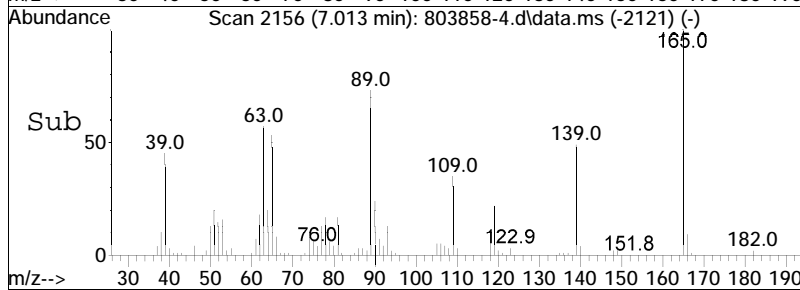
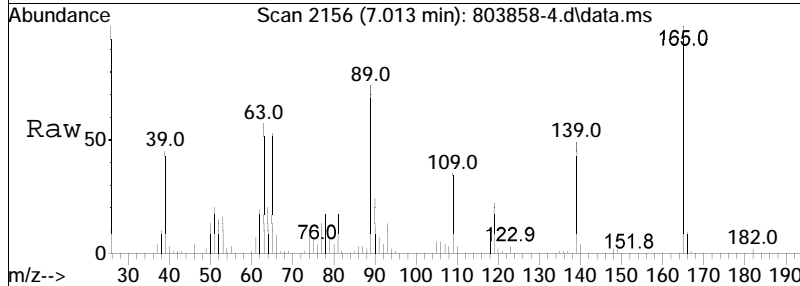
Tgt Ion	Ratio	Lower	Upper
168	100		
139	38.2	33.2	49.8

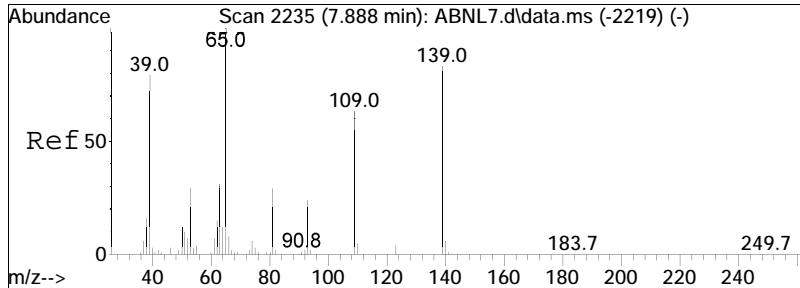




#68
 2,4-Dinitrotoluene
 Concen: 27.08 ug/ml
 RT: 7.013 min Scan# 2156
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

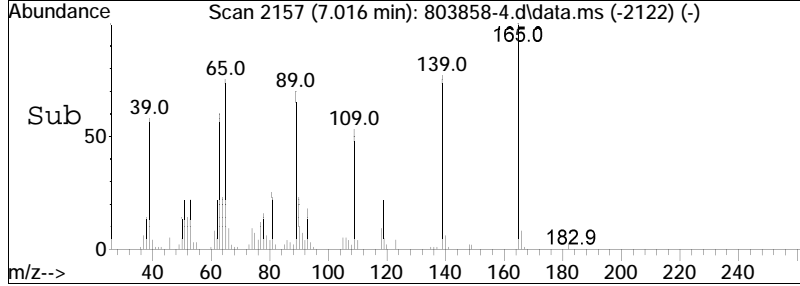
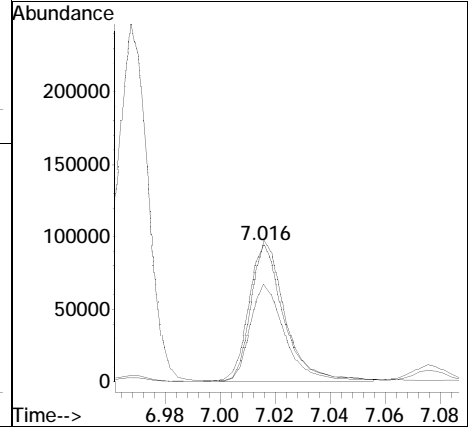
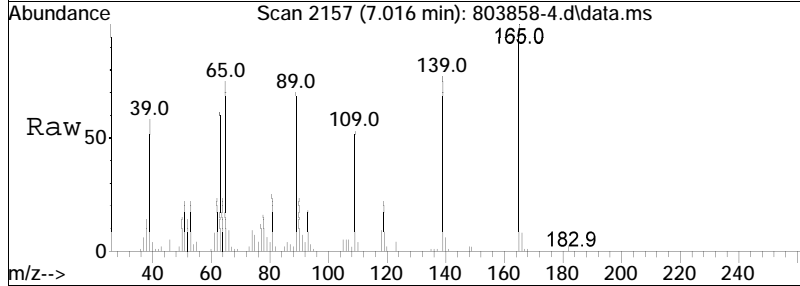
Tgt Ion	Ratio	Lower	Upper
165	100		
89	75.3	75.7	113.5#
63	63.8	62.6	94.0

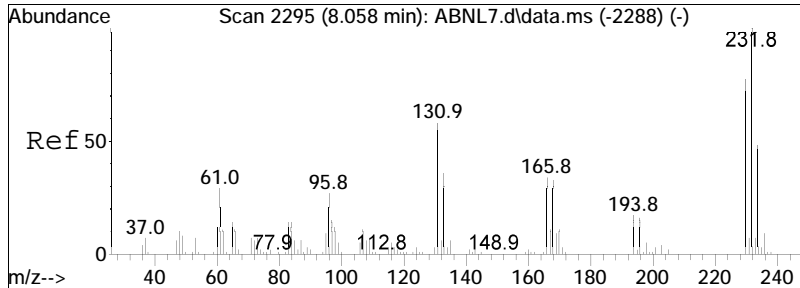




#69
 4-Nitrophenol
 Concen: 30.83 ug/ml
 RT: 7.016 min Scan# 2157
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

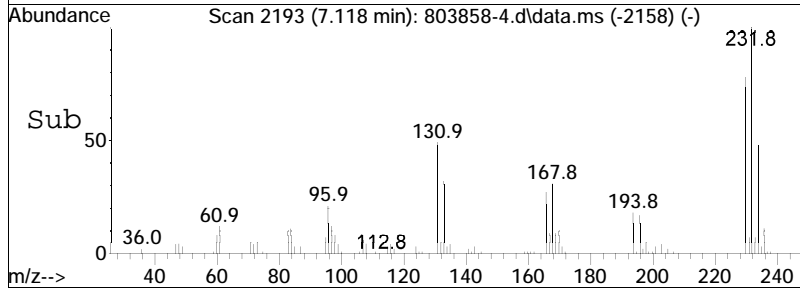
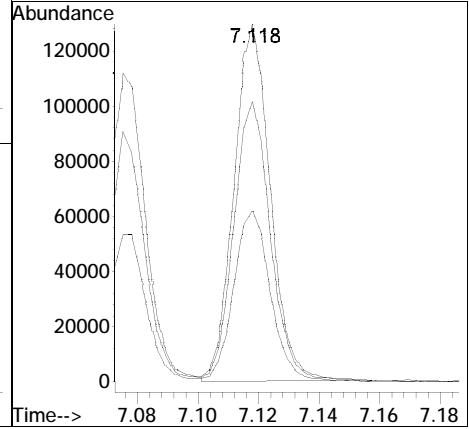
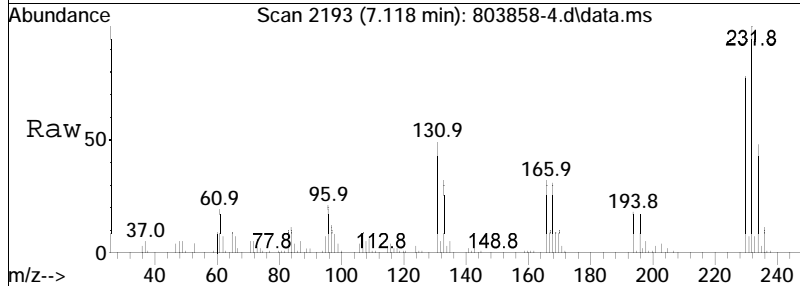
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
65	100		
109	70.4	55.4	83.2
139	99.2	72.9	109.3

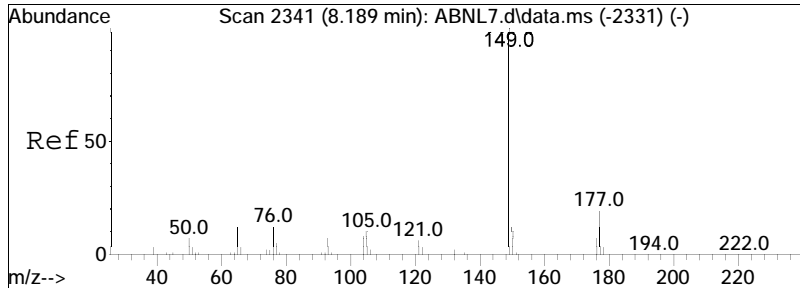




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 27.81 ug/ml
 RT: 7.118 min Scan# 2193
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

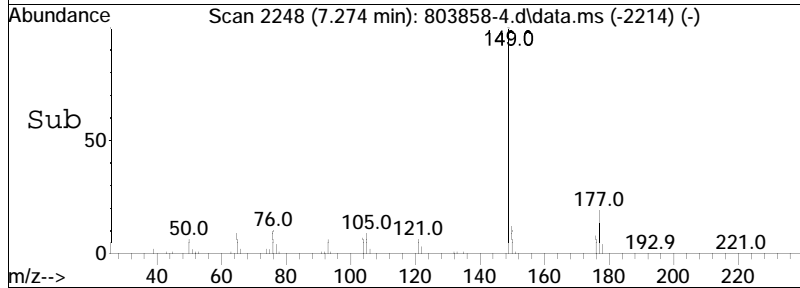
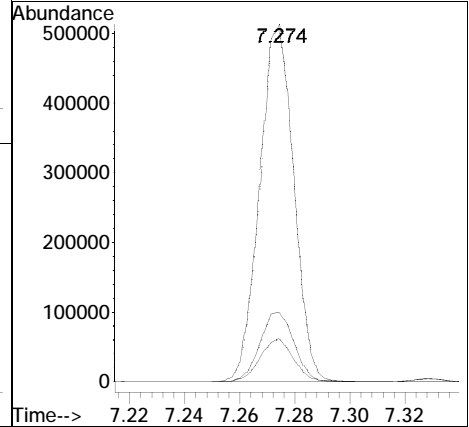
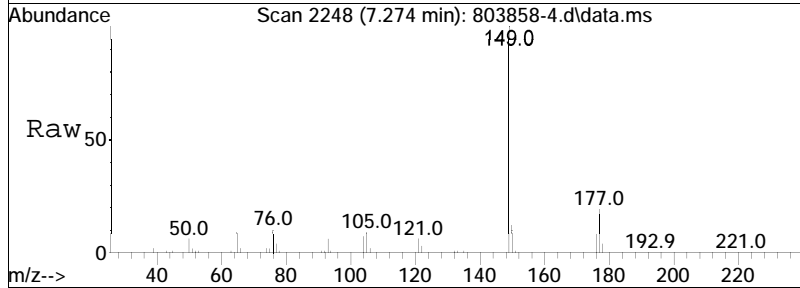
Tgt Ion	Resp	Lower	Upper
232	107667		
232	100		
230	79.9	63.7	95.5
234	49.2	38.4	57.6

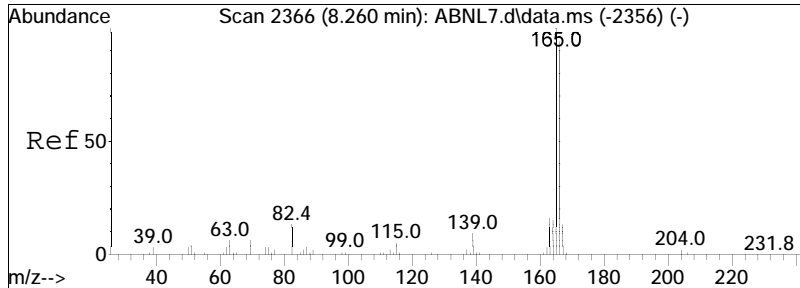




#72
 Diethyl phthalate
 Concen: 25.99 ug/ml
 RT: 7.274 min Scan# 2248
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

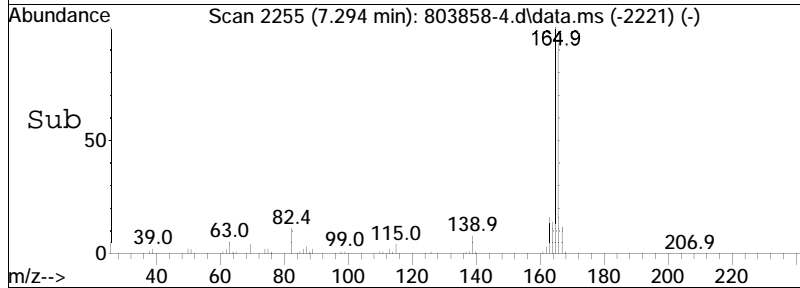
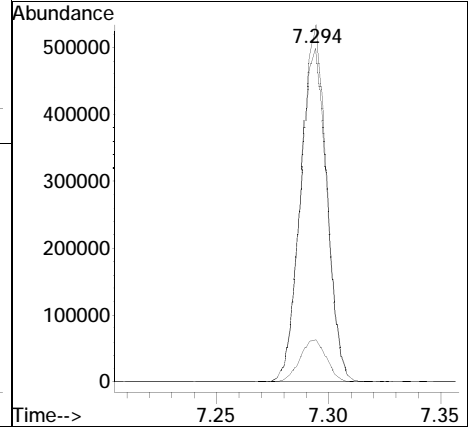
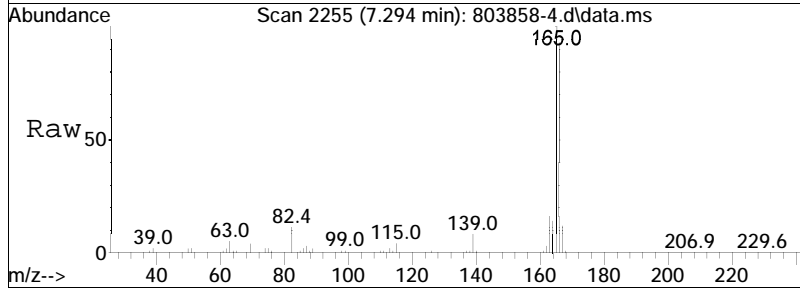
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.7	15.5	23.3
150	12.1	9.5	14.3

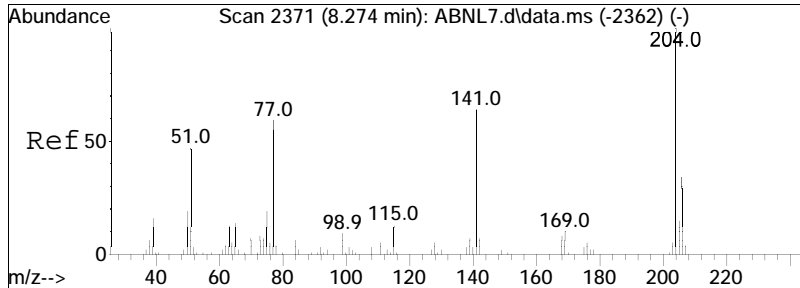




#73
 Fluorene
 Concen: 24.49 ug/ml
 RT: 7.294 min Scan# 2255
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

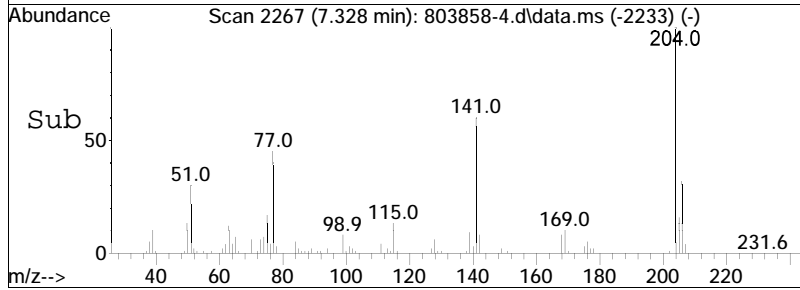
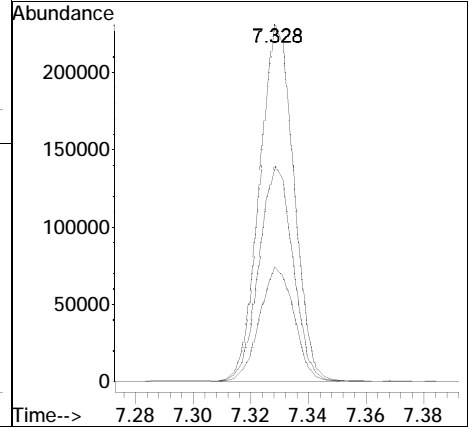
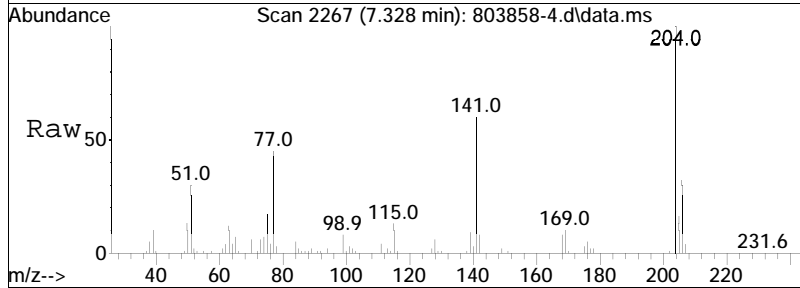
Tgt Ion	Resp	Lower	Upper
166	408508		
166	100		
165	105.2	79.3	118.9
167	12.9	10.6	16.0

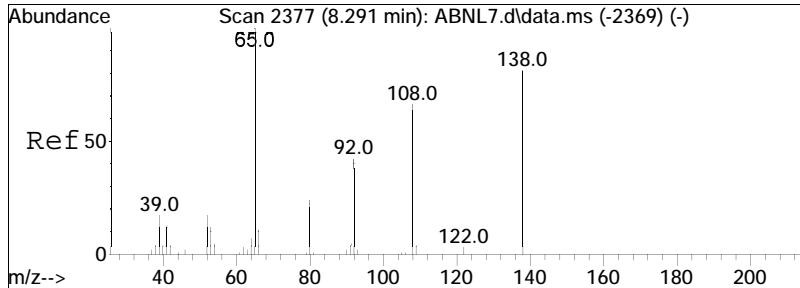




#74
 4-Chlorophenyl phenyl ether
 Concen: 24.05 ug/ml
 RT: 7.328 min Scan# 2267
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

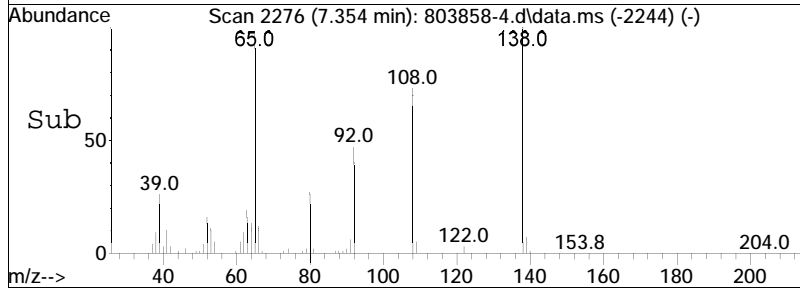
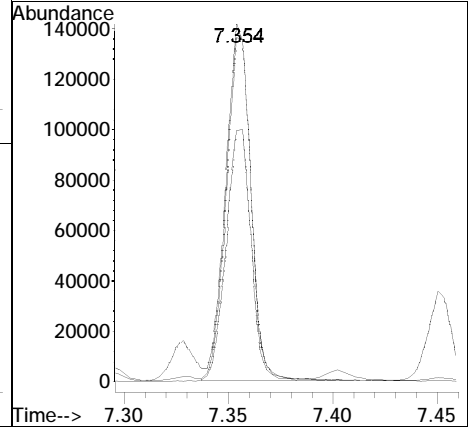
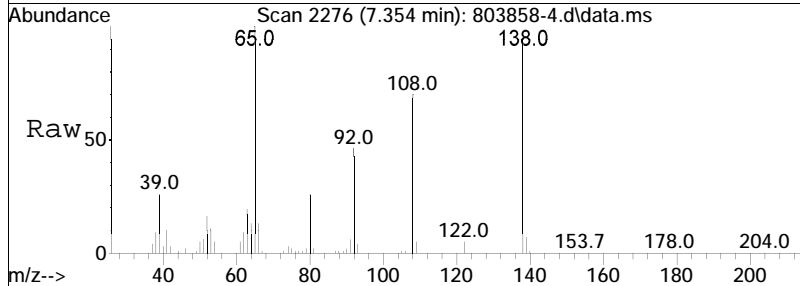
Tgt Ion	Ratio	Lower	Upper
204	100		
206	32.3	26.2	39.4
141	60.0	57.2	85.8

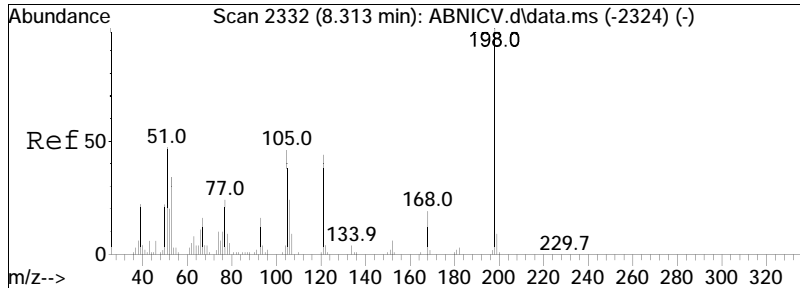




#75
 4-Nitroaniline
 Concen: 26.29 ug/ml
 RT: 7.354 min Scan# 2276
 Delta R.T. -0.009 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

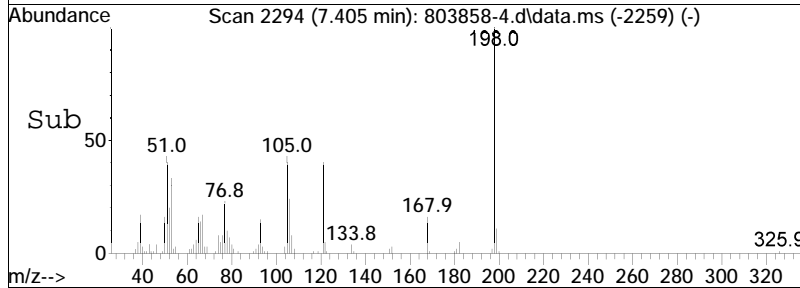
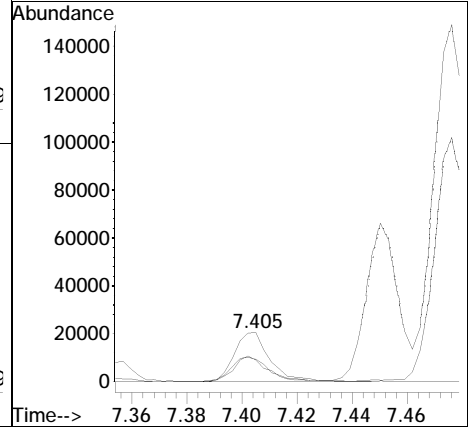
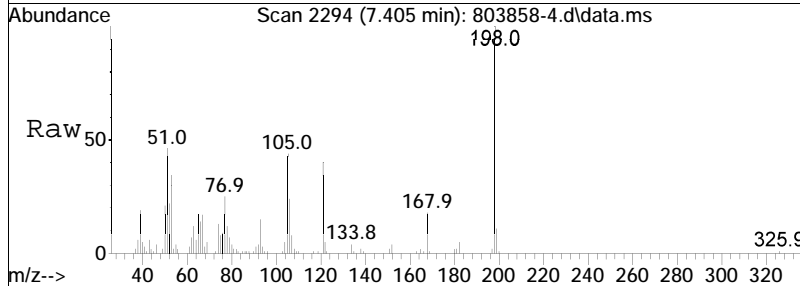
Tgt Ion	Resp	Lower	Upper
138	100		
108	73.8	62.7	94.1
65	103.3	107.8	161.6#

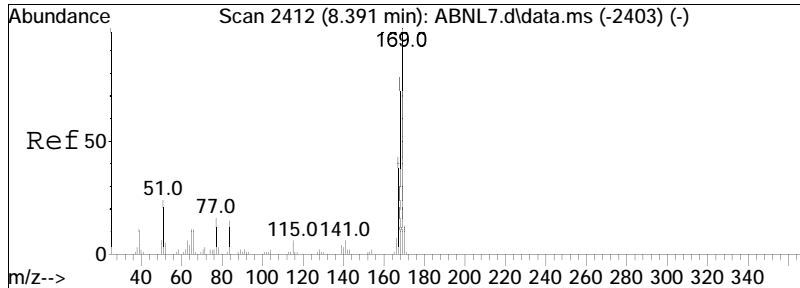




#76
 4,6-Dinitro-o-cresol
 Concen: 9.68 ug/ml
 RT: 7.405 min Scan# 2294
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

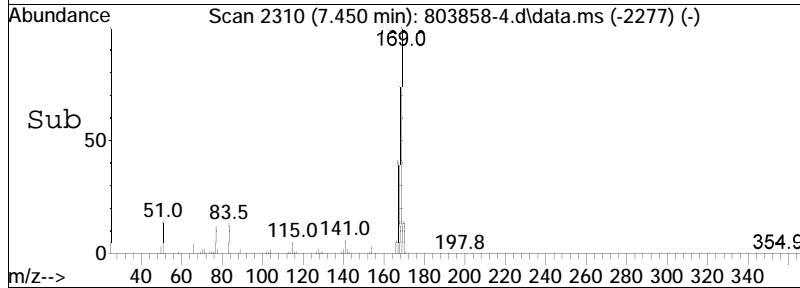
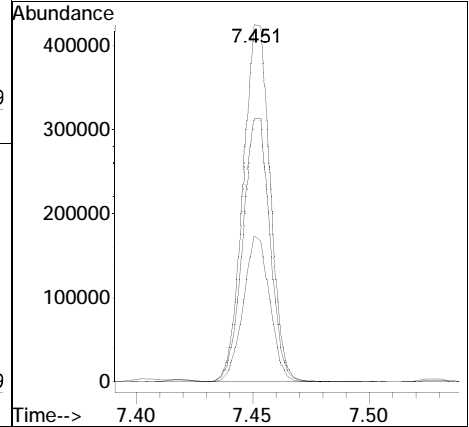
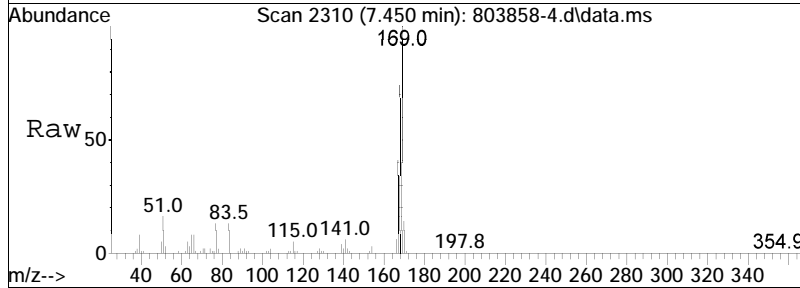
Tgt Ion	Ratio	Lower	Upper
198	100		
51	51.6	59.0	88.4#
105	49.5	45.0	67.6

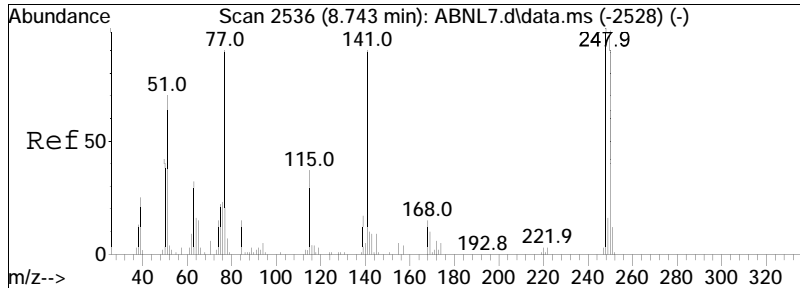




#77
 NDPA/DPA
 Concen: 23.97 ug/ml
 RT: 7.450 min Scan# 2310
 Delta R.T. -0.006 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

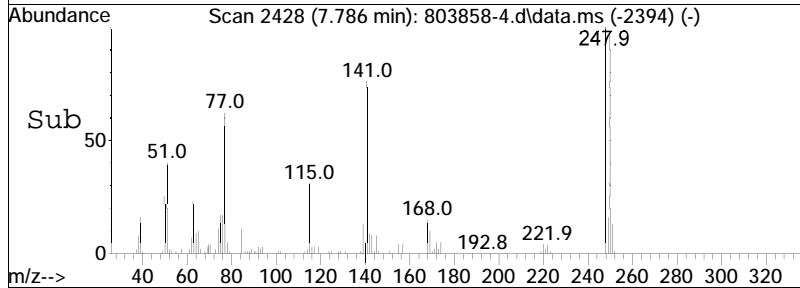
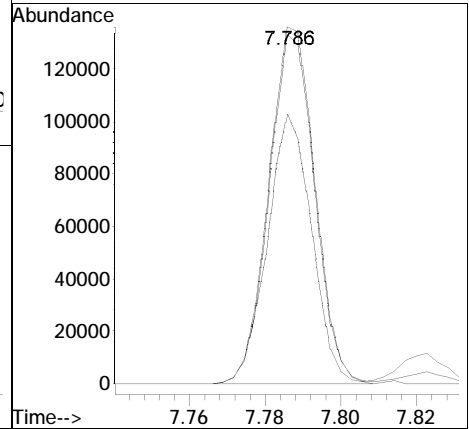
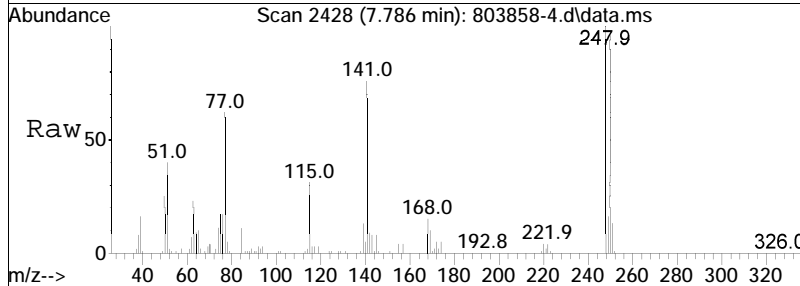
Tgt Ion	Ratio	Lower	Upper
169	100		
168	73.7	55.4	83.0
167	40.0	30.3	45.5

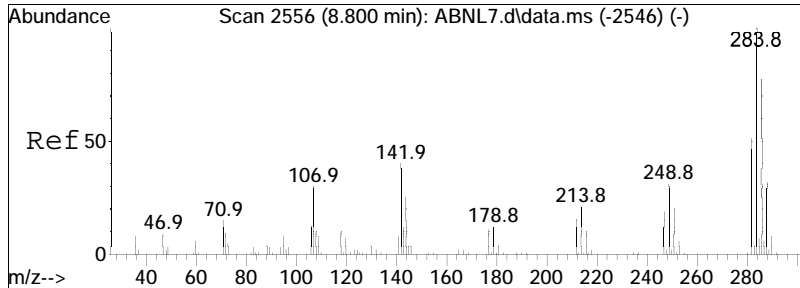




#80
 4-Bromophenyl phenyl ether
 Concen: 24.68 ug/ml
 RT: 7.786 min Scan# 2428
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

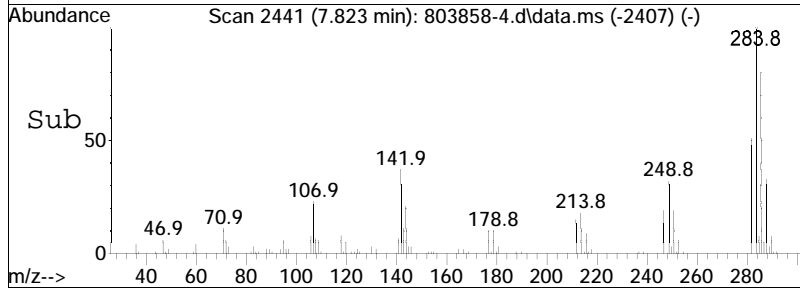
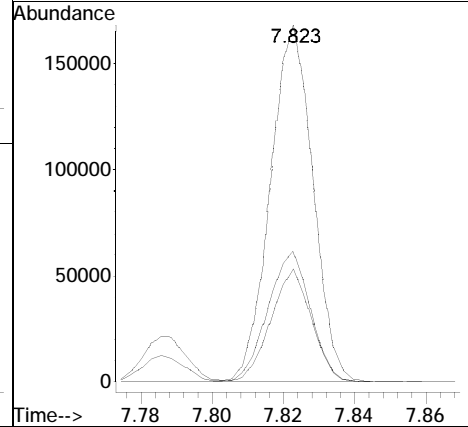
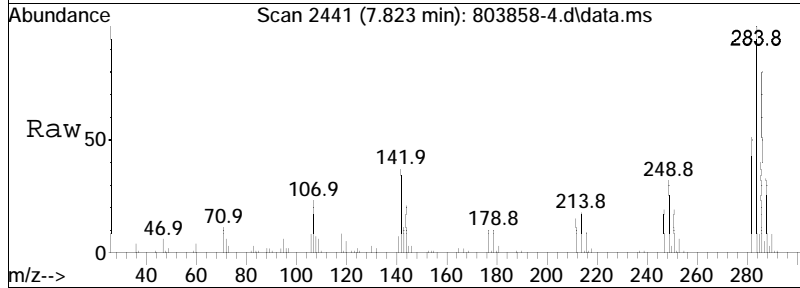
Tgt Ion	Ratio	Lower	Upper
248	100		
141	72.2	76.8	115.2#
250	96.3	79.7	119.5

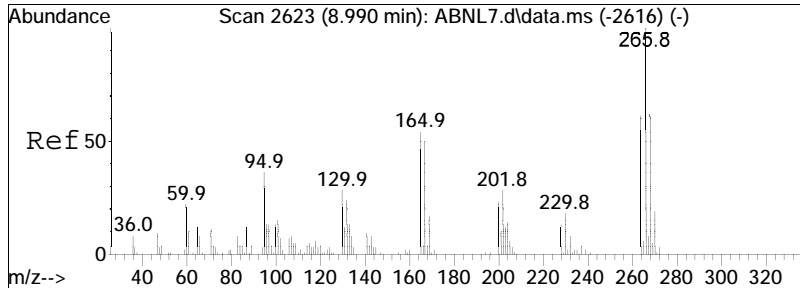




#81
 Hexachlorobenzene
 Concen: 24.33 ug/ml
 RT: 7.823 min Scan# 2441
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

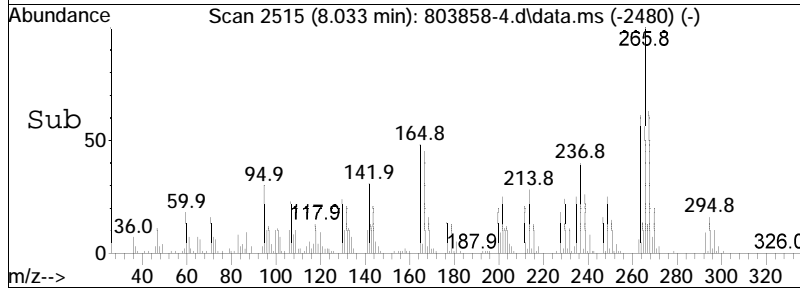
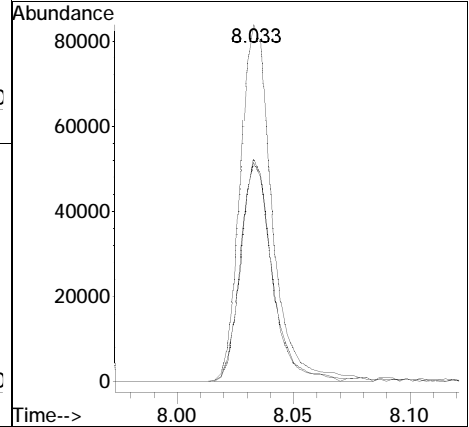
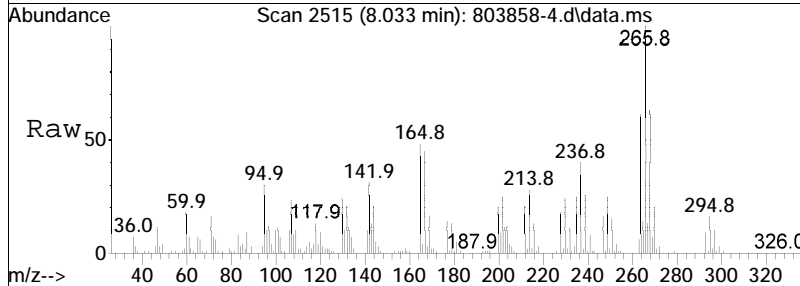
Tgt Ion	Resp	Lower	Upper
284	139296		
284	100		
142	36.9	35.8	53.6
249	30.2	24.7	37.1

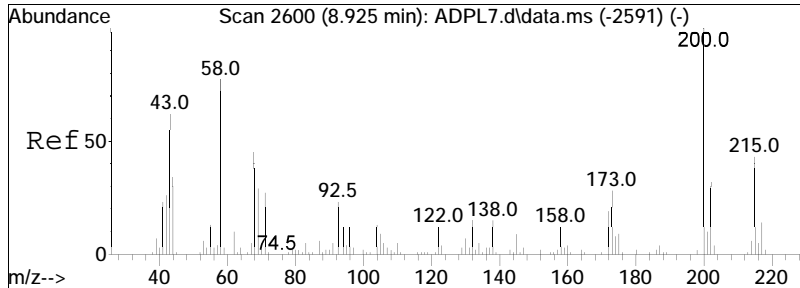




#82
 Pentachlorophenol
 Concen: 23.54 ug/ml
 RT: 8.033 min Scan# 2515
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

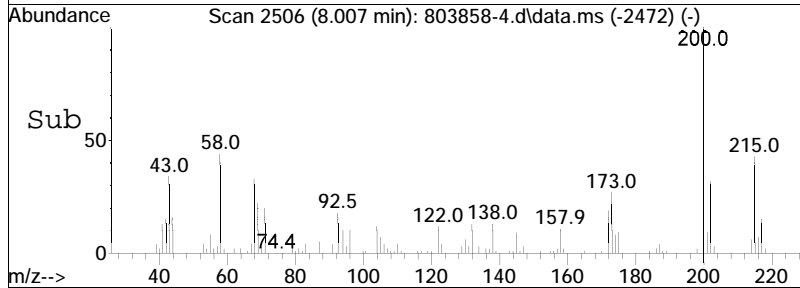
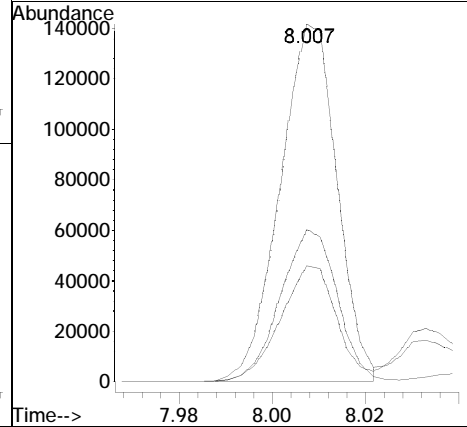
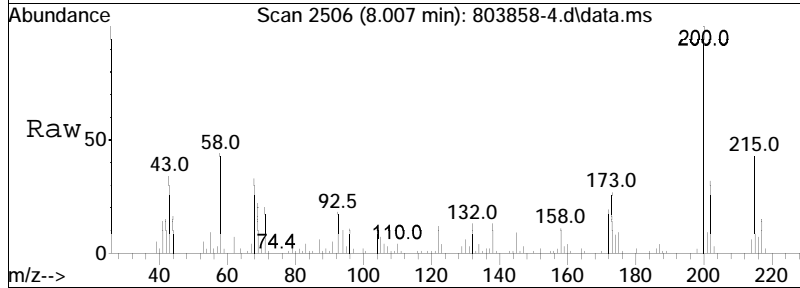
Tgt Ion	Resp	Lower	Upper
266	100		
264	60.8	51.8	77.6
268	61.3	49.8	74.8

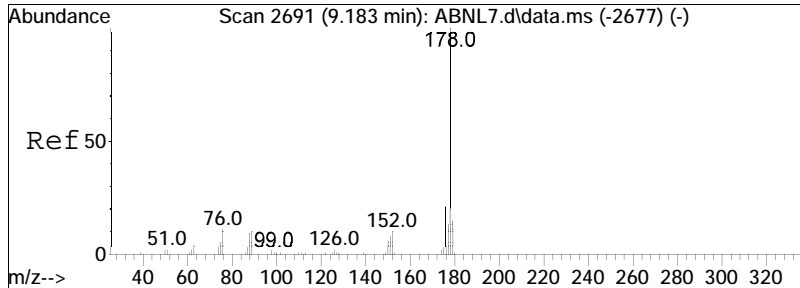




#87
 Atrazine
 Concen: 31.39 ug/ml
 RT: 8.007 min Scan# 2506
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

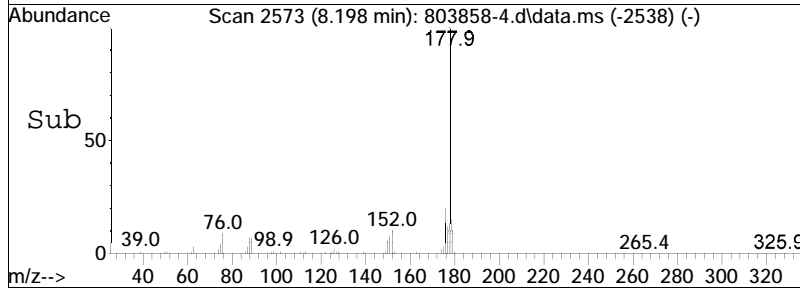
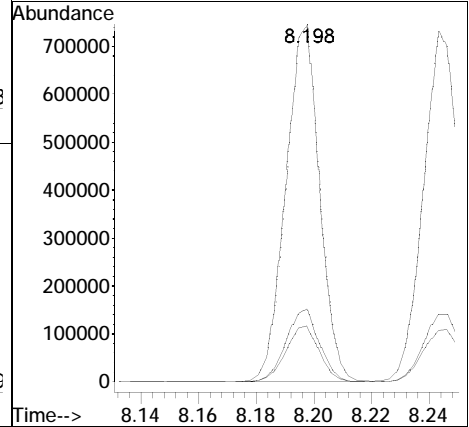
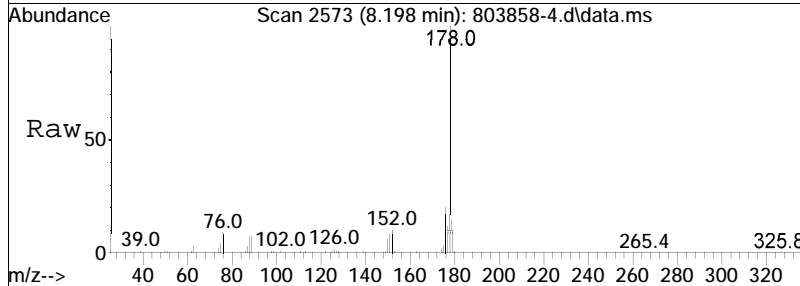
Tgt Ion	Ratio	Lower	Upper
200	100		
202	32.3	24.9	37.3
215	42.4	34.0	51.0

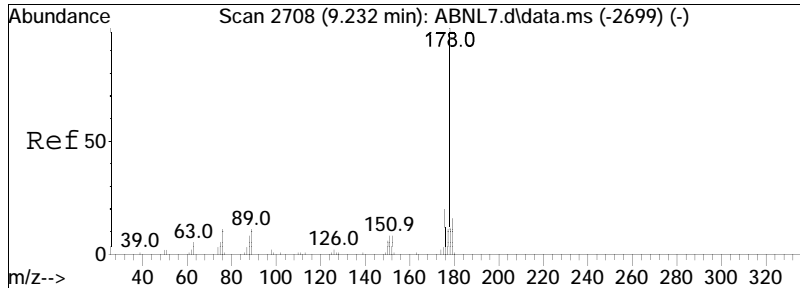




#89
 Phenanthrene
 Concen: 23.37 ug/ml
 RT: 8.198 min Scan# 2573
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

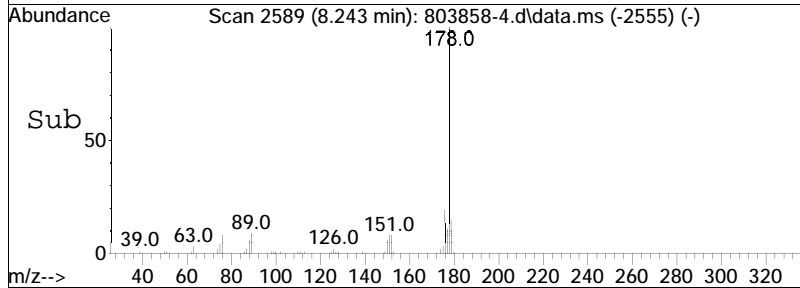
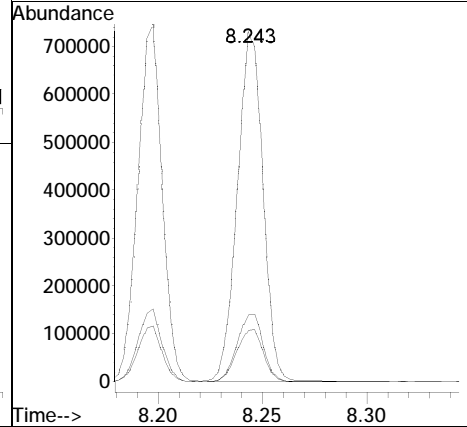
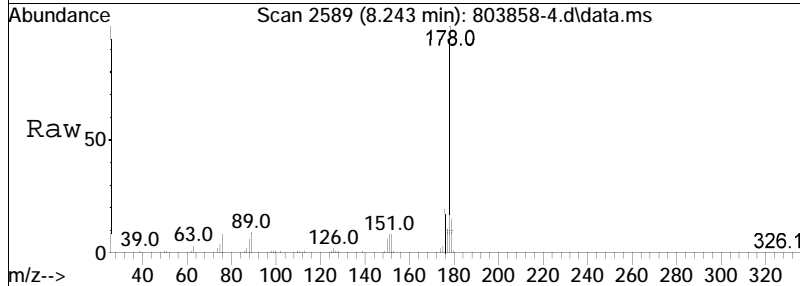
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.2	18.2
176	20.2	15.4	23.2

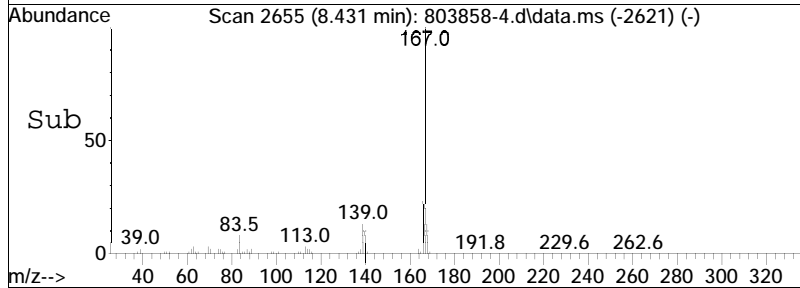
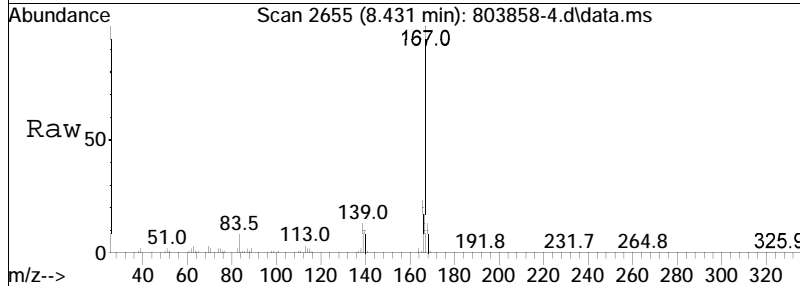
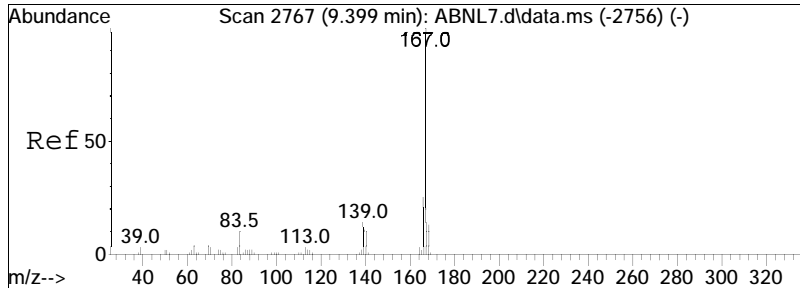




#90
 Anthracene
 Concen: 24.38 ug/ml
 RT: 8.243 min Scan# 2589
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

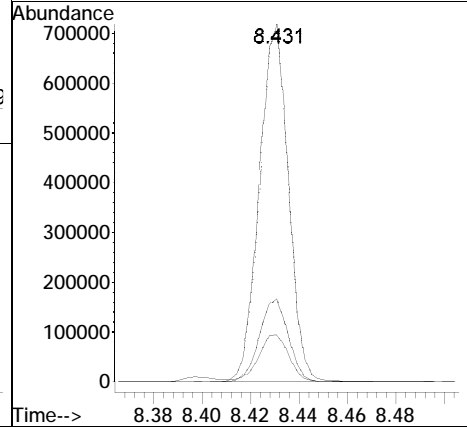
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.6	12.1	18.1
176	19.6	14.8	22.2

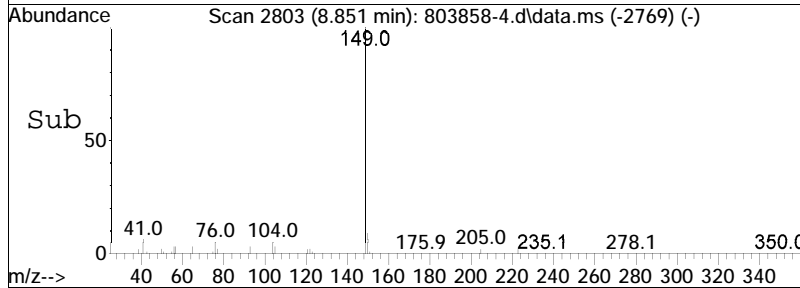
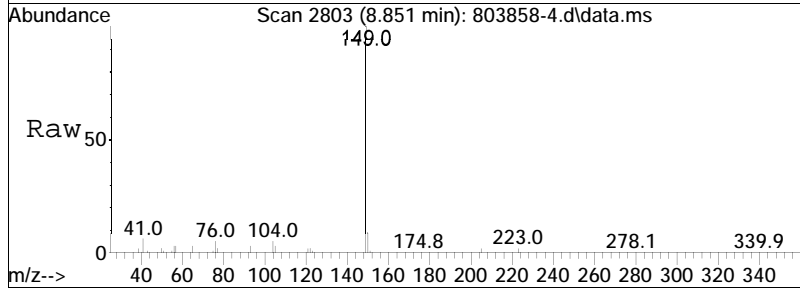
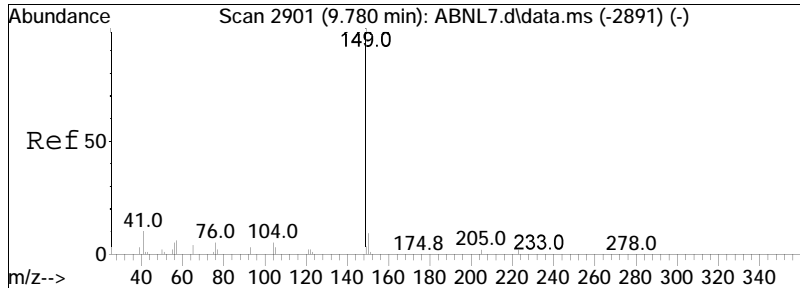




#91
 Carbazole
 Concen: 24.74 ug/ml
 RT: 8.431 min Scan# 2655
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

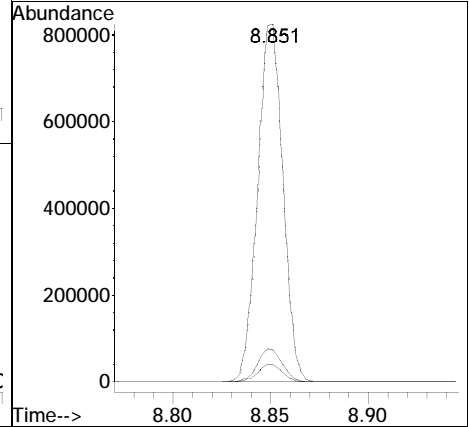
Tgt Ion	167	168	166	Resp:	591518	Lower	Upper
Ion Ratio	100	13.9	23.4			10.6	15.8
						17.7	26.5

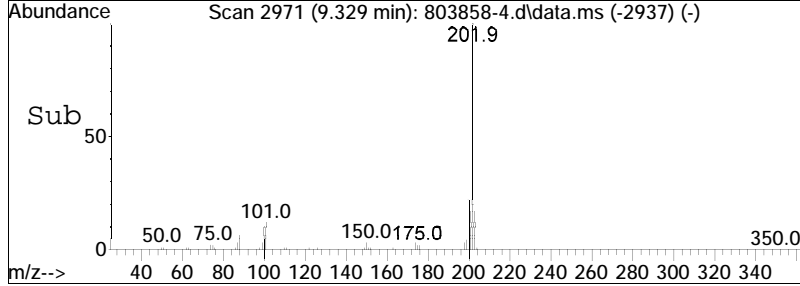
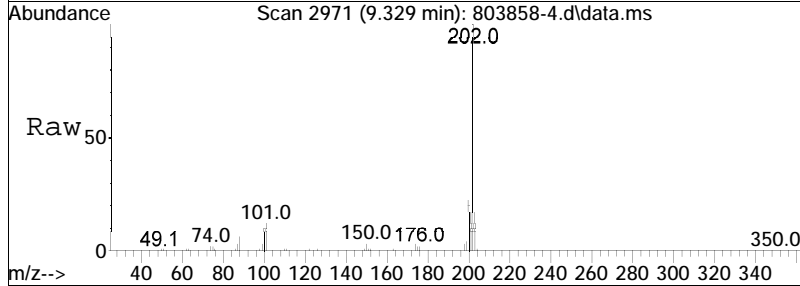
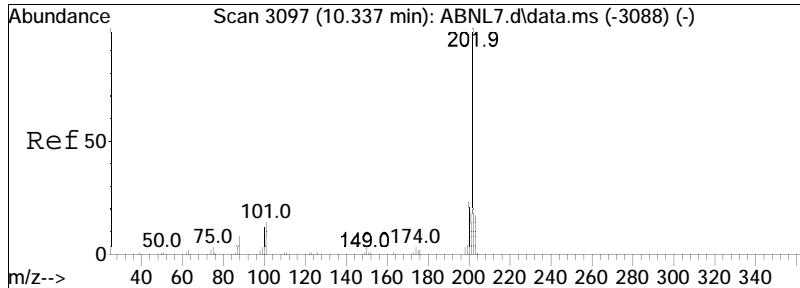




#92
 Di-n-butylphthalate
 Concen: 28.44 ug/ml
 RT: 8.851 min Scan# 2803
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

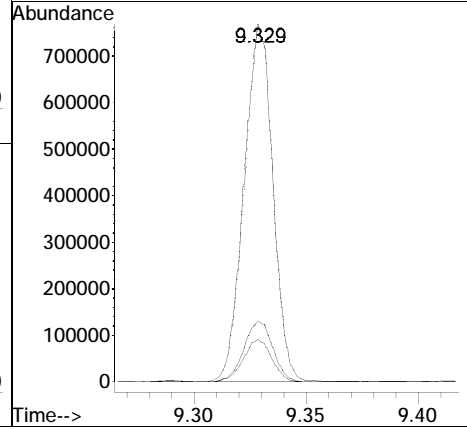
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	4.7	4.2	6.2

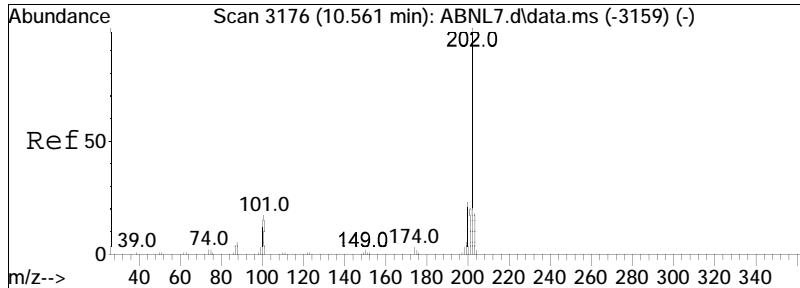




#93
 Fluoranthene
 Concen: 24.96 ug/ml
 RT: 9.329 min Scan# 2971
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

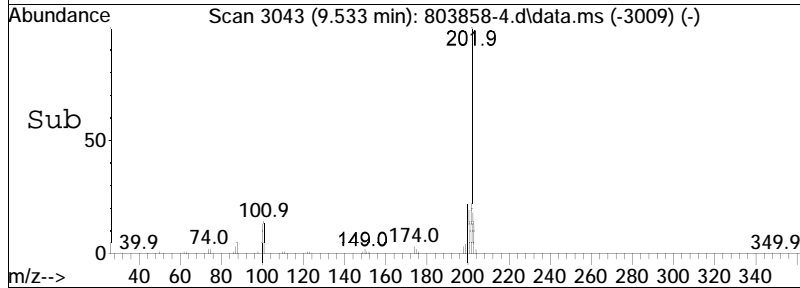
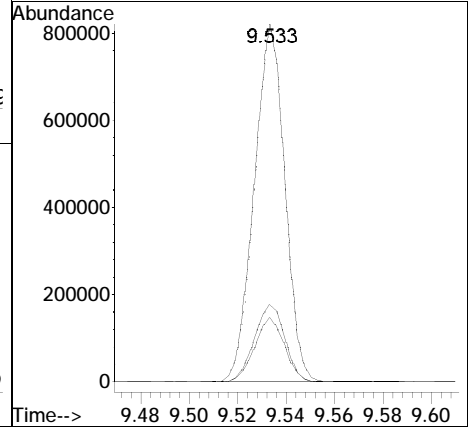
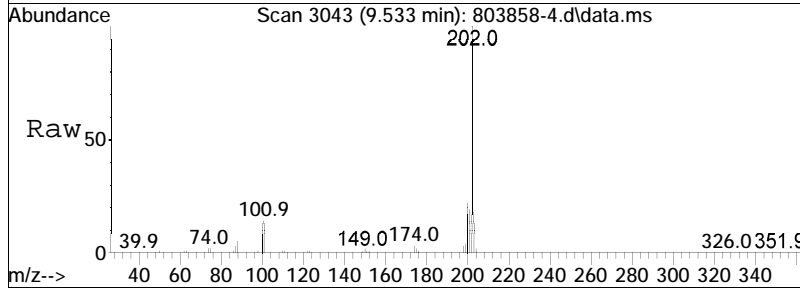
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.9	11.4	17.0
203	17.2	13.9	20.9

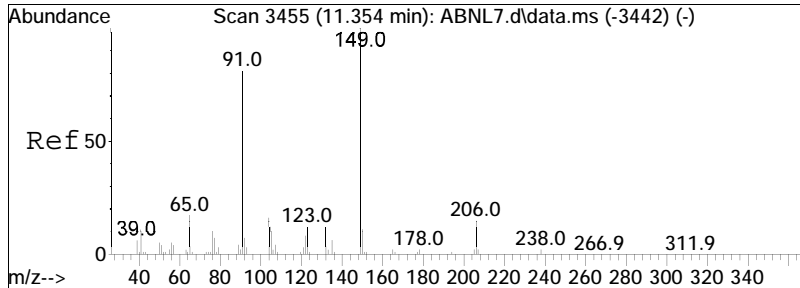




#95
 Pyrene
 Concen: 24.33 ug/ml
 RT: 9.533 min Scan# 3043
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

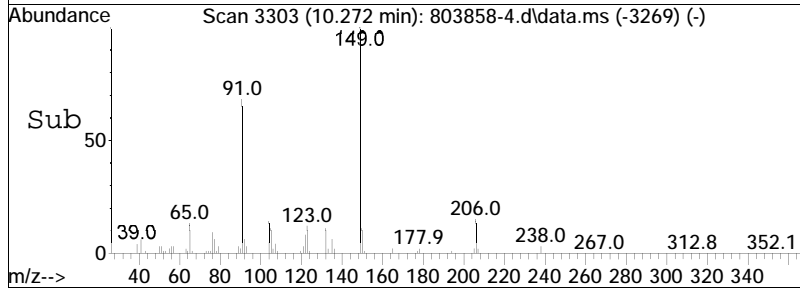
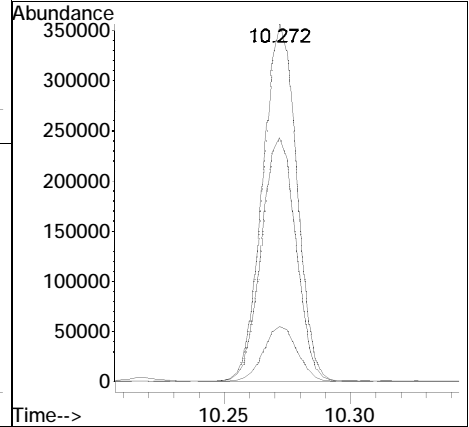
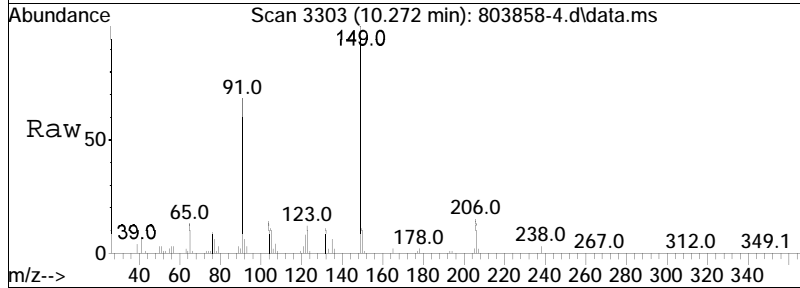
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.0	25.4
203	17.9	14.2	21.2

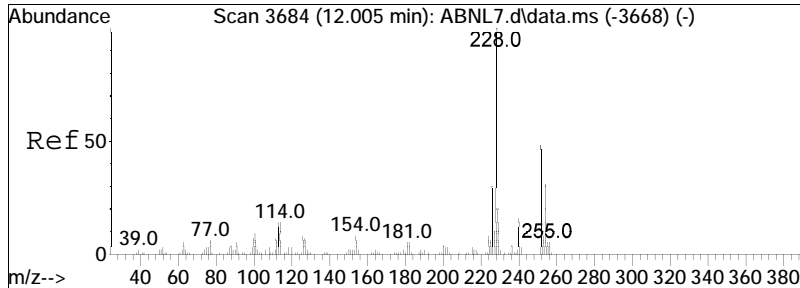




#97
 Butyl benzyl phthalate
 Concen: 26.87 ug/ml
 RT: 10.272 min Scan# 3303
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

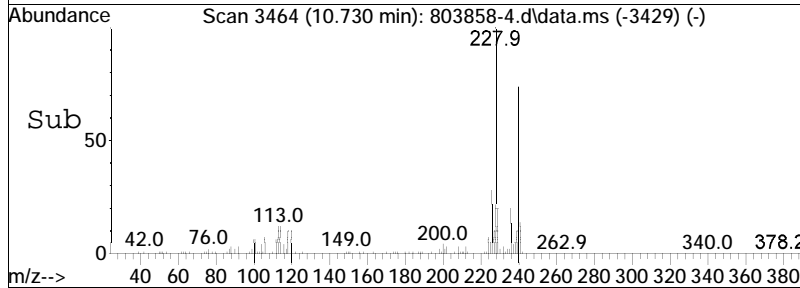
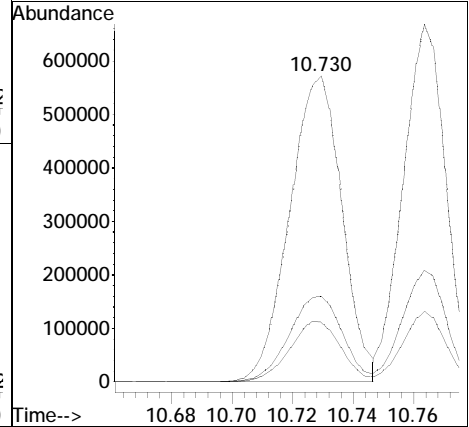
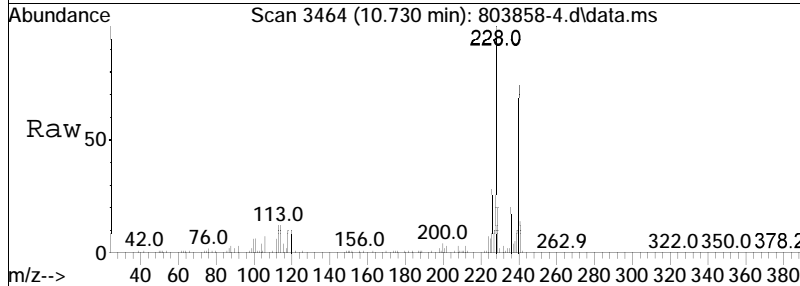
Tgt Ion	Resp	Lower	Upper
149	332159		
149	100		
91	69.1	61.2	91.8
206	15.4	12.5	18.7

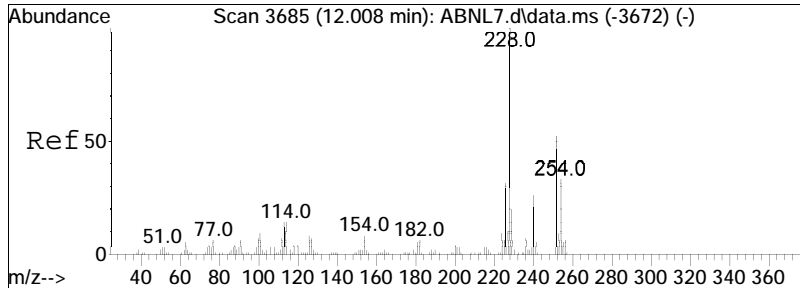




#105
 Benzo(a)anthracene
 Concen: 24.23 ug/ml
 RT: 10.730 min Scan# 3464
 Delta R.T. -0.000 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

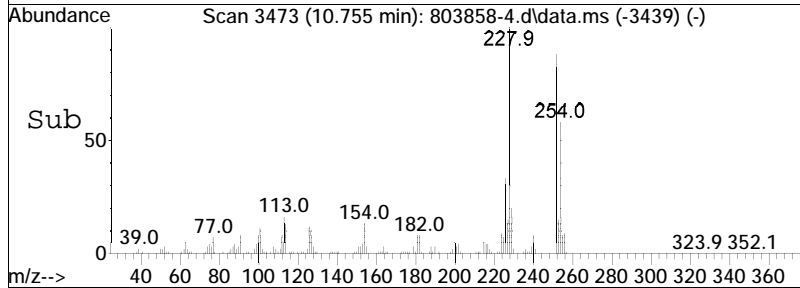
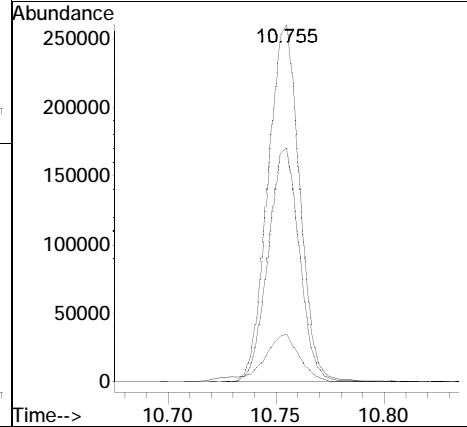
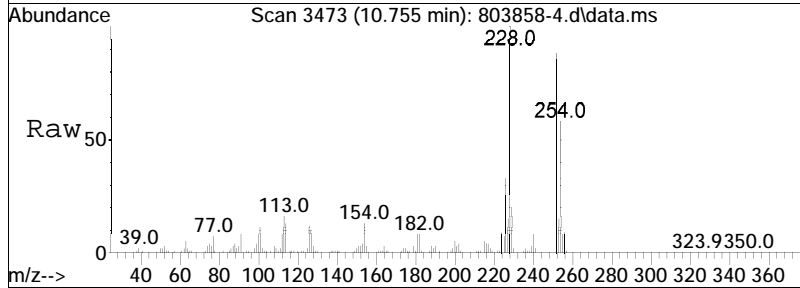
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.2	33.2
229	19.5	15.6	23.4

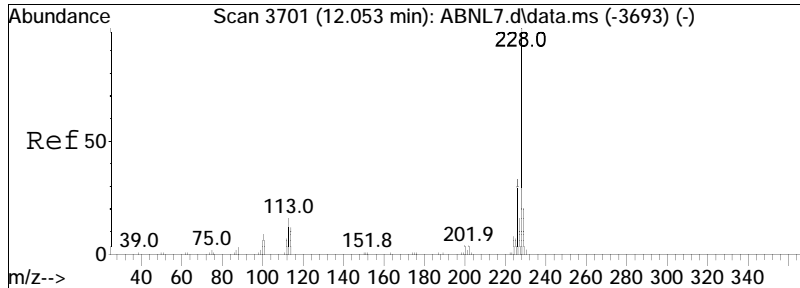




#106
 3,3'-Dichlorobenzidine
 Concen: 25.61 ug/ml
 RT: 10.755 min Scan# 3473
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

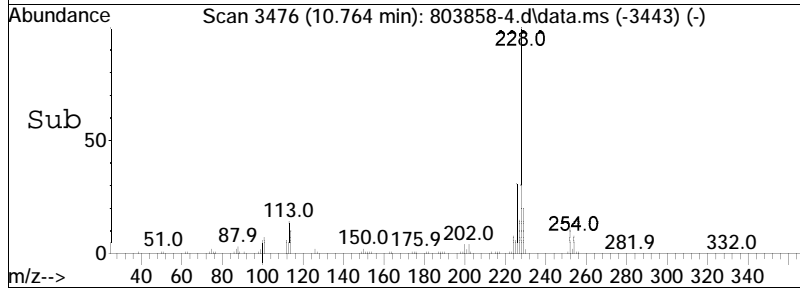
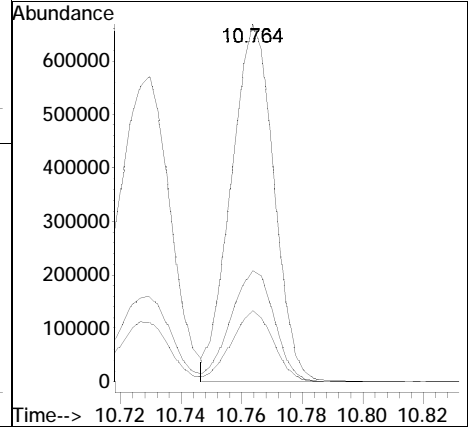
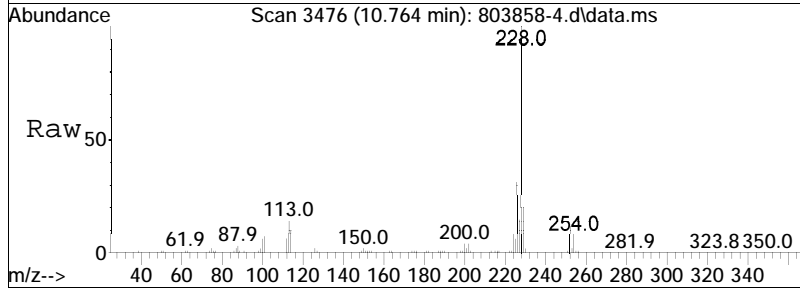
Tgt Ion	Ratio	Lower	Upper
252	100		
126	15.6	13.8	20.6
254	65.0	53.0	79.6

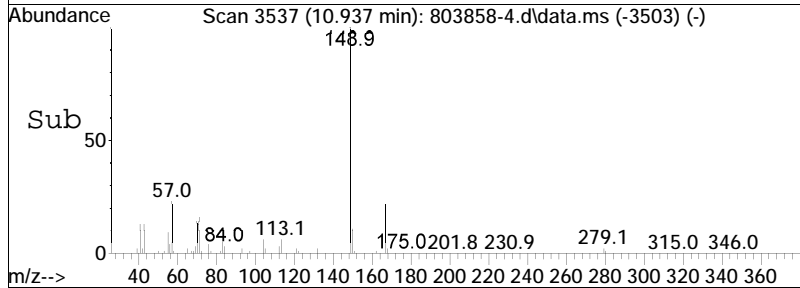
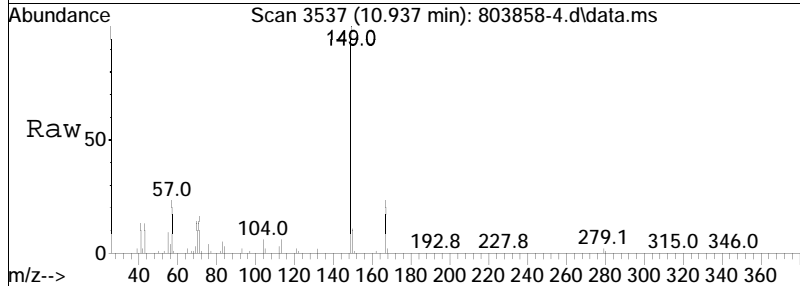
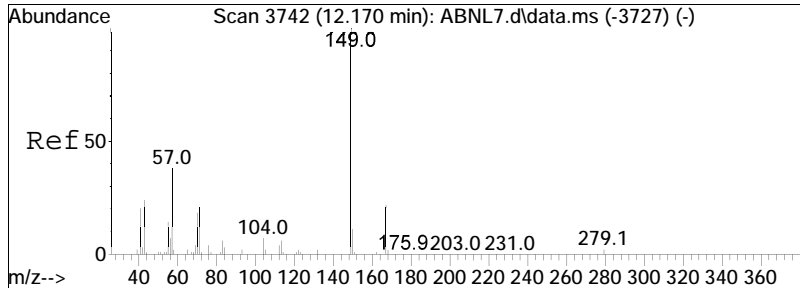




#107
 Chrysene
 Concen: 23.01 ug/ml
 RT: 10.764 min Scan# 3476
 Delta R.T. -0.006 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

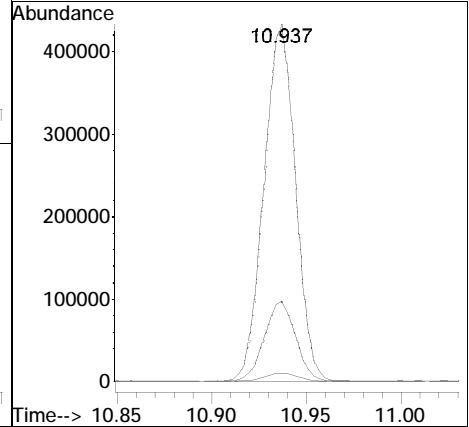
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.6	37.0
229	19.7	15.8	23.6

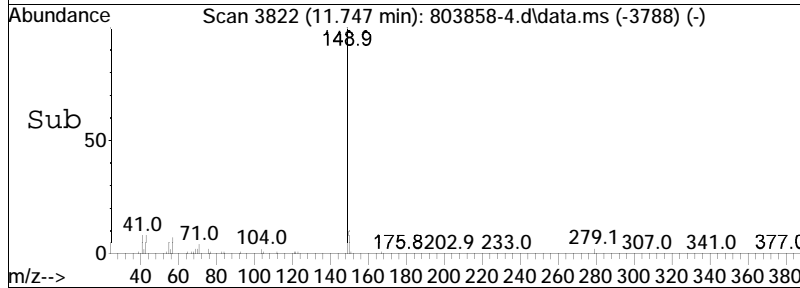
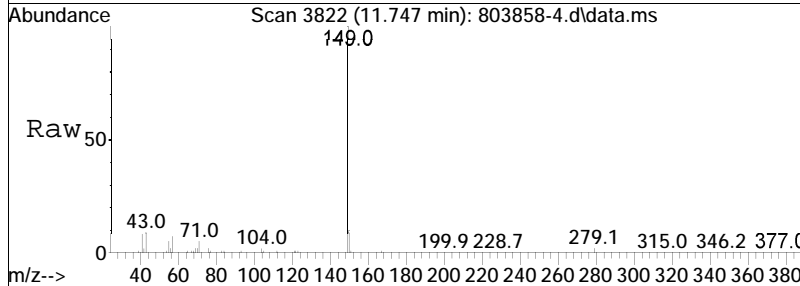
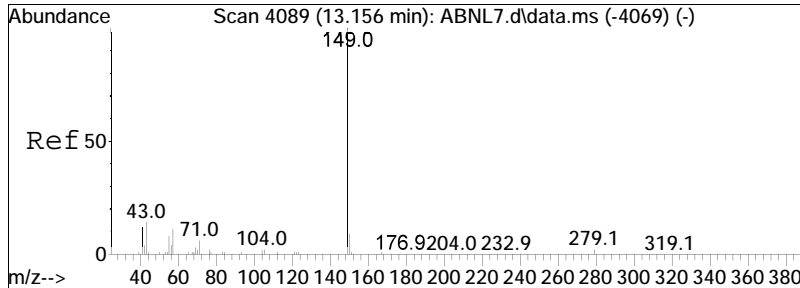




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 25.24 ug/ml
 RT: 10.937 min Scan# 3537
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

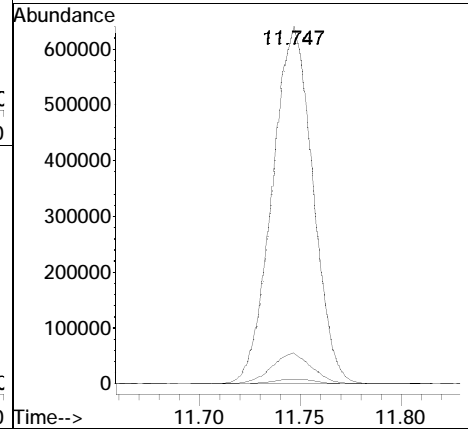
Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.3	19.4	29.0
279	2.4	2.3	3.5

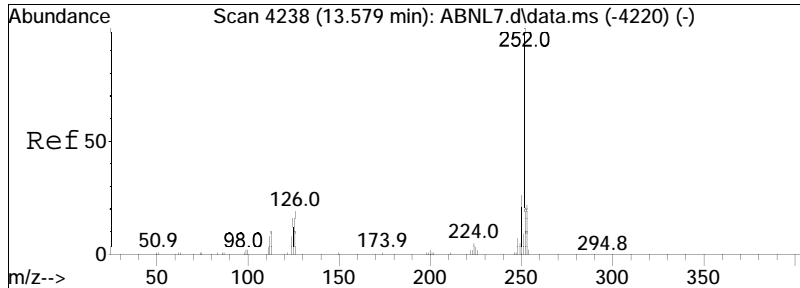




#109
 Di-n-octylphthalate
 Concen: 27.04 ug/ml
 RT: 11.747 min Scan# 3822
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

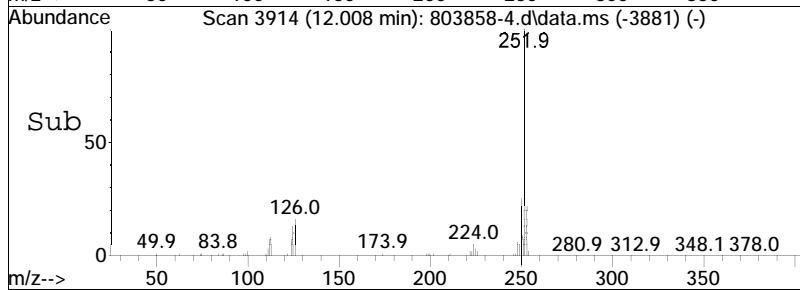
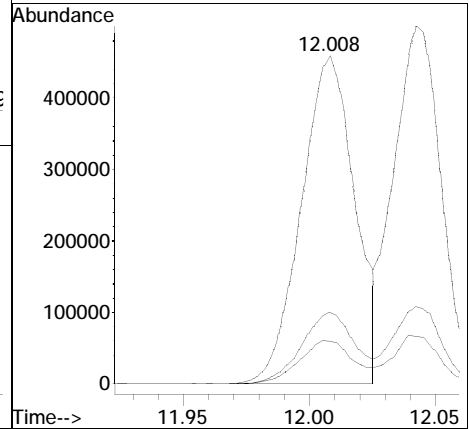
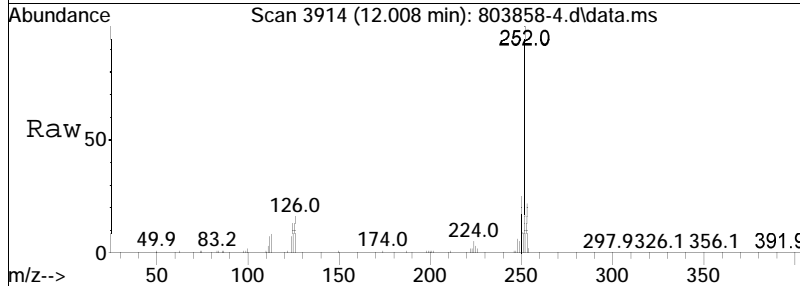
Tgt Ion	Ratio	Lower	Upper
149	100		
43	8.4	10.1	15.1#
167	1.3	1.1	1.7

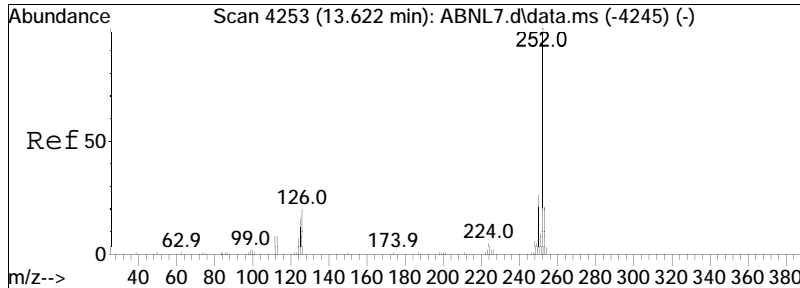




#110
 Benzo(b)fluoranthene
 Concen: 24.58 ug/ml
 RT: 12.008 min Scan# 3914
 Delta R.T. -0.006 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

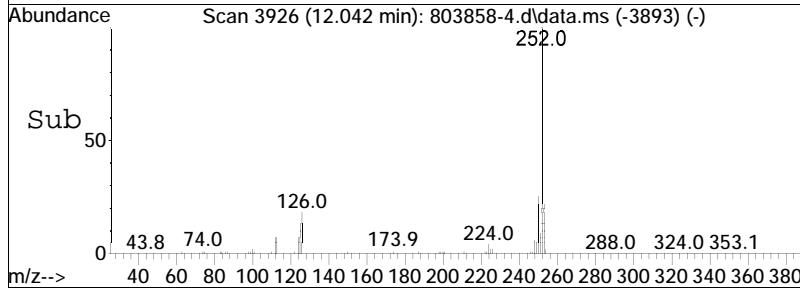
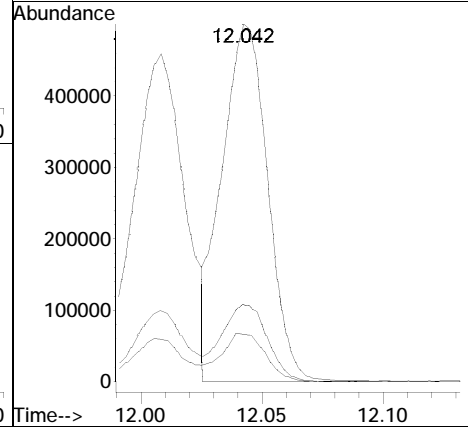
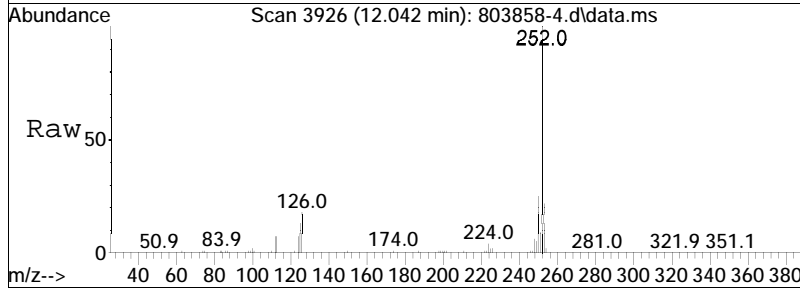
Tgt Ion	Ratio	Lower	Upper
252	100		
125	13.5	11.6	17.4
253	21.9	17.4	26.0

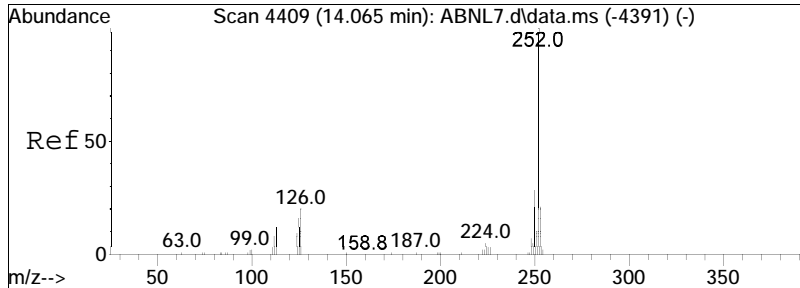




#111
 Benzo(k)fluoranthene
 Concen: 23.29 ug/ml
 RT: 12.042 min Scan# 3926
 Delta R.T. -0.006 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

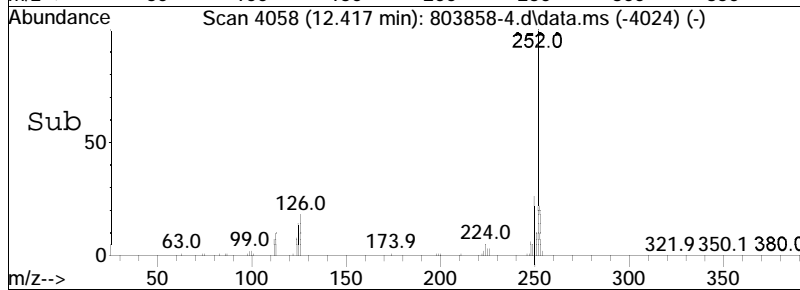
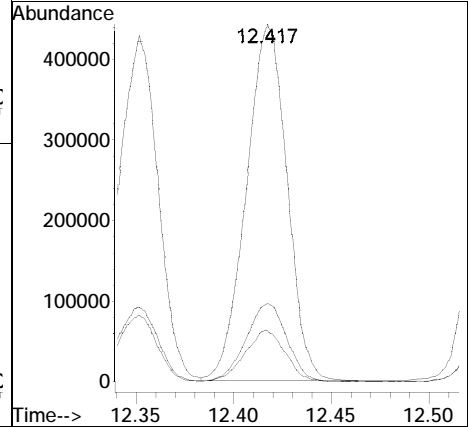
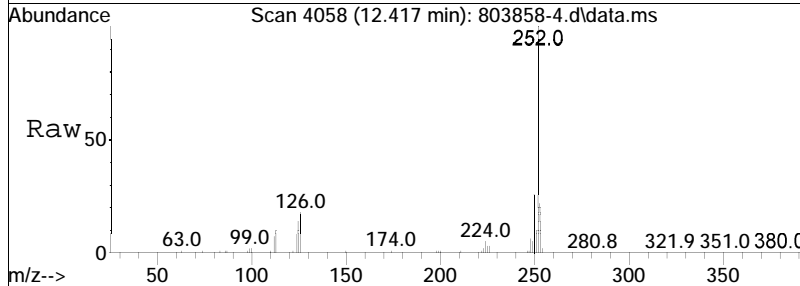
Tgt Ion	Ratio	Lower	Upper
252	100		
125	13.1	11.4	17.0
253	21.8	17.2	25.8

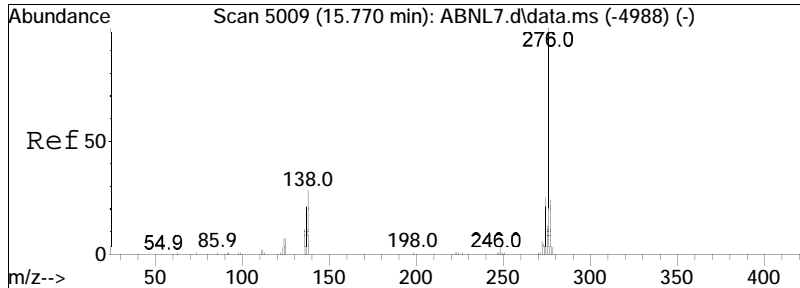




#112
 Benzo(a)pyrene
 Concen: 27.00 ug/ml
 RT: 12.417 min Scan# 4058
 Delta R.T. -0.003 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

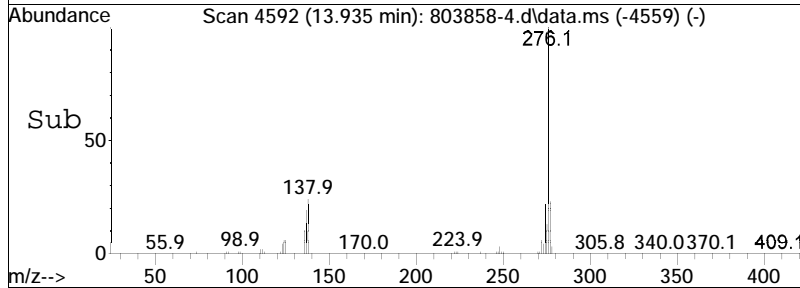
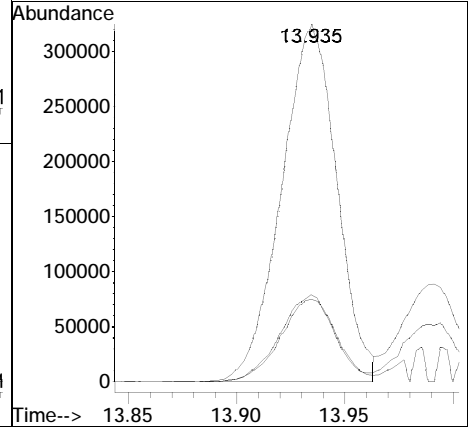
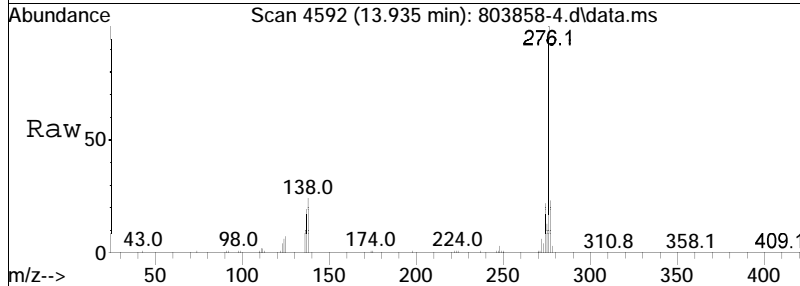
Tgt Ion	Ratio	Lower	Upper
252	100		
125	14.5	12.6	18.8
253	22.0	16.9	25.3

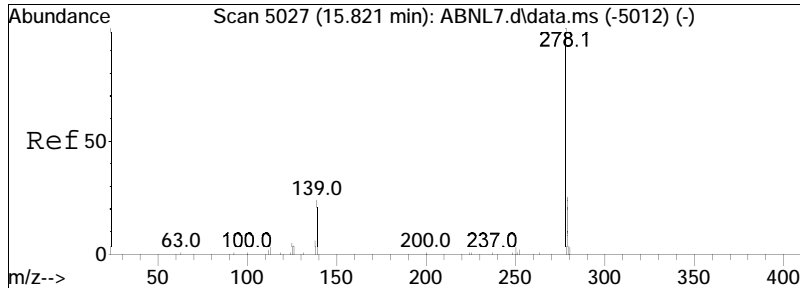




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 26.86 ug/mL
 RT: 13.935 min Scan# 4592
 Delta R.T. -0.006 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

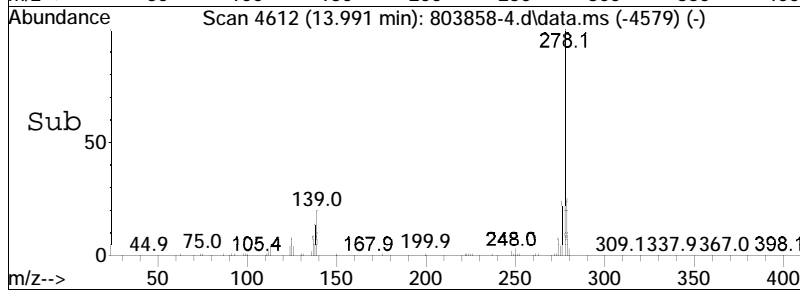
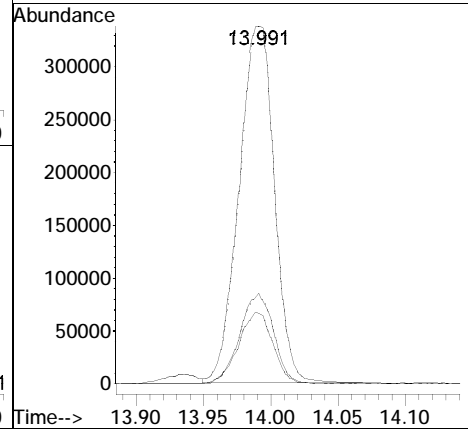
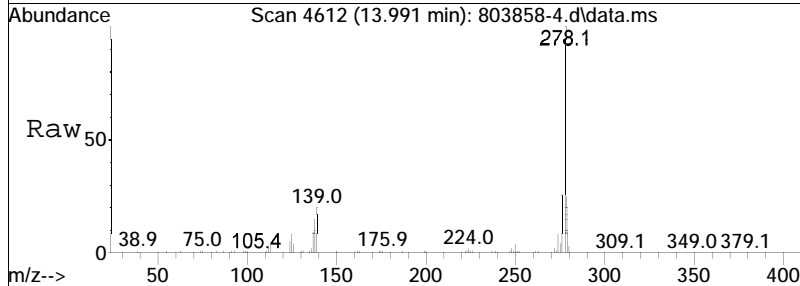
Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.1	21.4	32.0
277	23.5	19.2	28.8

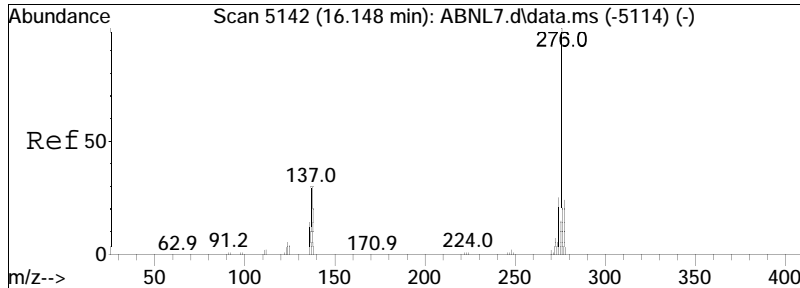




#115
 Dibenzo(a,h)anthracene
 Concen: 23.87 ug/ml
 RT: 13.991 min Scan# 4612
 Delta R.T. -0.006 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

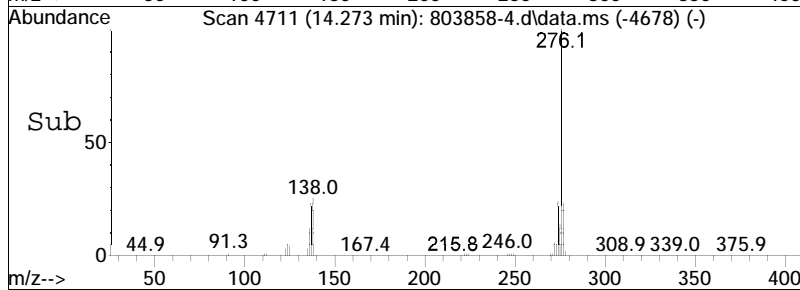
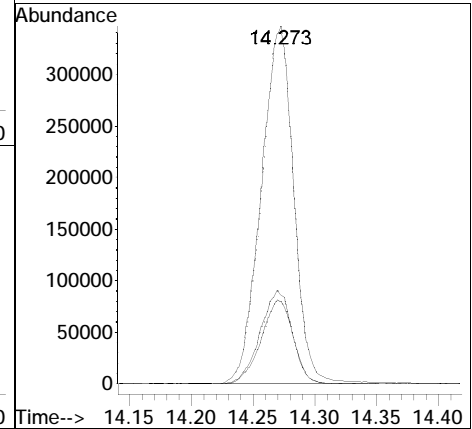
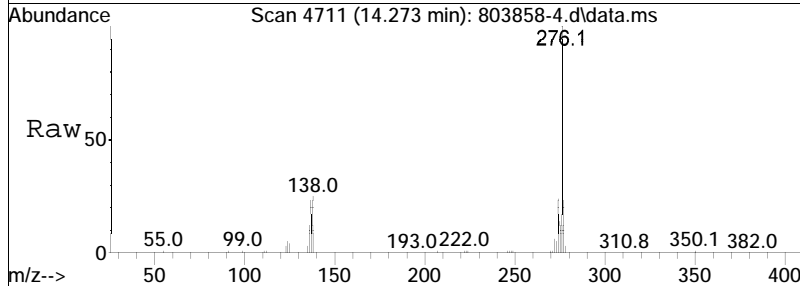
Tgt Ion	Resp	Lower	Upper
278	100		
139	19.7	17.1	25.7
279	24.1	19.3	28.9





#116
 Benzo(ghi)perylene
 Concen: 23.97 ug/ml
 RT: 14.273 min Scan# 4711
 Delta R.T. -0.006 min
 Lab File: 803858-4.d
 Acq: 19 Jul 2023 5:56 am

Tgt Ion	Resp	Lower	Upper
276	100		
138	26.1	26.7	40.1#
277	23.4	19.4	29.2



Manual Integration Report

Data Path	: I:\8270\SV103\230718n\	QMethod	: FS230515nSV103.m
Data File	: 803858-4.d	Operator	: SV103:ek
Date Inj'd	: 7/19/2023 5:56 am	Instrument	: SV103
Sample	: WG1803858-4,32,,mg	Quant Date	: 7/19/2023 6:15 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-5.d
 Acq On : 19 Jul 2023 6:19 am
 Operator : SV103:ek
 Sample : WG1803858-5,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 25 18:09:49 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.825	152	204412	40.000	ug/ml	0.00
Standard Area 1 = 229645			Recovery =	89.01%		
27) IS2_1,4-Dichlorobenzen...	3.825	152	204412	40.000	ug/ml	0.00
Standard Area 3 = 170348			Recovery =	120.00%		
32) IS3_1,4-Dichlorobenzen...	3.825	152	204412	40.000	ug/ml	0.00
Standard Area 2 = 151650			Recovery =	134.79%		
35) IS1_Naphthalene-d8	5.081	136	818086	40.000	ug/ml	0.00
Standard Area 1 = 870434			Recovery =	93.99%		
55) IS2_Naphthalene-d8	5.081	136	818086	40.000	ug/ml	0.00
Standard Area 3 = 647727			Recovery =	126.30%		
63) IS1_Acenaphthene-d10	6.769	164	450985	40.000	ug/ml	0.00
Standard Area 1 = 468195			Recovery =	96.32%		
83) IS2_Acenaphthene-d10	6.769	164	450985	40.000	ug/ml	0.00
Standard Area 3 = 342963			Recovery =	131.50%		
86) IS3_Acenaphthene-d10	6.769	164	450985	40.000	ug/ml	0.00
Standard Area 2 = 314489			Recovery =	143.40%		
88) IS1_Phenanthrene-d10	8.175	188	906037	40.000	ug/ml	0.00
Standard Area 1 = 951685			Recovery =	95.20%		
100) IS3_Phenanthrene-d10	8.175	188	906037	40.000	ug/ml	0.00
Standard Area 2 = 639108			Recovery =	141.77%		
104) IS1_Chrysene-d12	10.738	240	800628	40.000	ug/ml	0.00
Standard Area 1 = 883111			Recovery =	90.66%		
113) IS1_Perylene-d12	12.500	264	913873	40.000	ug/ml	0.00
Standard Area 1 = 990767			Recovery =	92.24%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.470	112	214609	37.670	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	75.34%	
7) Phenol-d6	3.566	99	274789	38.684	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	77.37%	
19) Nitrobenzene-d5	4.393	82	135654	23.013	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	92.05%	
46) 2-Fluorobiphenyl	6.164	172	283246	18.414	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	73.66%	
79) 2,4,6-Tribromophenol	7.530	330	99472	41.452	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	82.90%	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-5.d
 Acq On : 19 Jul 2023 6:19 am
 Operator : SV103:ek
 Sample : WG1803858-5,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 25 18:09:49 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	9.749	244	335648	15.924	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	63.70%
Target Compounds						Qvalue
6) 2-Chlorophenol	3.620	128	210144	31.741	ug/ml	91
8) Phenol	3.578	94	256038	31.561	ug/ml#	96
9) Bis(2-chloroethyl)ether	3.606	93	178433	31.137	ug/ml#	84
14) Bis(2-chloroisopropyl)...	4.163	45	214763	23.430	ug/ml#	71
15) 2-Methylphenol	4.183	108	180497	31.917	ug/ml	99
16) Hexachloroethane	4.314	117	76332	28.148	ug/ml#	81
17) n-Nitrosodi-n-propylamine	4.291	70	146648	37.104	ug/ml	99
18) 3-Methylphenol/4-Methy...	4.348	108	211657	35.486	ug/ml#	27
20) Nitrobenzene	4.413	77	219838	36.963	ug/ml	96
21) Isophorone	4.666	82	390327	36.229	ug/ml	99
22) 2-Nitrophenol	4.731	139	108541	37.348	ug/ml	89
23) 2,4-Dimethylphenol	4.851	107	192426	31.526	ug/ml	97
24) Bis(2-chloroethoxy)met...	4.925	93	245128	35.034	ug/ml#	97
25) 2,4-Dichlorophenol	4.987	162	190672	35.261	ug/ml	95
28) Benzaldehyde	3.370	105	163524	37.208	ug/ml	93
29) Acetophenone	4.257	105	299148	33.632	ug/ml	92
36) Naphthalene	5.098	128	630296	29.287	ug/ml	99
38) 4-Chloroaniline	5.200	65	81932	36.778	ug/ml	94
39) Hexachlorobutadiene	5.260	225	111952	31.468	ug/ml	99
40) p-Chloro-m-cresol	5.734	107	187052	34.695	ug/ml	94
41) 2-Methylnaphthalene	5.780	142	414897	30.970	ug/ml	95
43) Hexachlorocyclopentadiene	5.950	237	38107	9.855	ug/ml	94
44) 2,4,6-Trichlorophenol	6.090	196	142368	37.254	ug/ml	94
45) 2,4,5-Trichlorophenol	6.127	196	153546	35.557	ug/ml	97
47) 2-Chloronaphthalene	6.240	162	409404	31.046	ug/ml	99
48) 2-Nitroaniline	6.374	138	149625	36.254	ug/ml	86
51) Dimethyl phthalate	6.590	163	488842	32.209	ug/ml#	99
52) Acenaphthylene	6.627	152	691014	34.079	ug/ml	98
53) 2,6-Dinitrotoluene	6.627	165	104627	33.548	ug/ml#	85
60) Caprolactam	5.524	55	84673	31.496	ug/ml#	90
61) 1,2,4,5-Tetrachloroben...	5.950	216	208507	33.791	ug/ml	99
62) Biphenyl	6.246	154	520689	30.936	ug/ml	98
64) 3-Nitroaniline	6.774	138	130334	32.831	ug/ml#	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-5.d
 Acq On : 19 Jul 2023 6:19 am
 Operator : SV103:ek
 Sample : WG1803858-5,32,,mg
 Misc : wgl804789,WG1803858,ical20013
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 25 18:09:49 2023
 Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Acenaphthene	6.800	154	373129	28.519	ug/ml	93
66) 2,4-Dinitrophenol	6.897	184	4080	5.753	ug/ml	96
67) Dibenzofuran	6.968	168	583302	28.766	ug/ml	94
68) 2,4-Dinitrotoluene	7.013	165	143653	33.154	ug/ml#	80
69) 4-Nitrophenol	7.016	65	97796	37.888	ug/ml	96
71) 2,3,4,6-Tetrachlorophenol	7.118	232	125989	34.521	ug/ml	98
72) Diethyl phthalate	7.274	149	501681	31.754	ug/ml	99
73) Fluorene	7.294	166	471672	29.990	ug/ml	96
74) 4-Chlorophenyl phenyl ...	7.328	204	217972	29.334	ug/ml	91
75) 4-Nitroaniline	7.357	138	129734	32.224	ug/ml#	80
76) 4,6-Dinitro-o-cresol	7.402	198	19908	10.788	ug/ml#	80
77) NDPA/DPA	7.454	169	392587	29.204	ug/ml	96
80) 4-Bromophenyl phenyl e...	7.789	248	131446	29.745	ug/ml#	87
81) Hexachlorobenzene	7.823	284	159746	29.597	ug/ml	92
82) Pentachlorophenol	8.033	266	89685	27.657	ug/ml	99
87) Atrazine	8.010	200	141365	39.243	ug/ml	99
89) Phenanthrene	8.198	178	695897	27.868	ug/ml	99
90) Anthracene	8.246	178	720804	29.298	ug/ml	99
91) Carbazole	8.431	167	681271	29.560	ug/ml	98
92) Di-n-butylphthalate	8.851	149	854260	34.523	ug/ml	100
93) Fluoranthene	9.329	202	770076	29.385	ug/ml	97
95) Pyrene	9.533	202	812274	28.822	ug/ml	99
97) Butyl benzyl phthalate	10.272	149	387006	32.090	ug/ml	93
105) Benzo(a)anthracene	10.730	228	767231	28.927	ug/ml	99
106) 3,3'-Dichlorobenzidine	10.755	252	294744	30.448	ug/ml	97
107) Chrysene	10.764	228	732093	27.574	ug/ml	98
108) Bis(2-ethylhexyl)phtha...	10.937	149	583202	31.313	ug/ml	97
109) Di-n-octylphthalate	11.747	149	1011761	32.476	ug/ml#	90
110) Benzo(b)fluoranthene	12.011	252	740079	28.746	ug/ml	98
111) Benzo(k)fluoranthene	12.042	252	726851	27.521	ug/ml	99
112) Benzo(a)pyrene	12.418	252	698975	31.483	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	13.935	276	615030	31.549	ug/mL	98
115) Dibenzo(a,h)anthracene	13.992	278	672373	28.770	ug/ml	98
116) Benzo(ghi)perylene	14.273	276	672681	28.263	ug/ml	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
Data File : 803858-5.d
Acq On : 19 Jul 2023 6:19 am
Operator : SV103:ek
Sample : WG1803858-5,32,,mg
Misc : wg1804789,WG1803858,ical20013
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 25 18:09:49 2023
Quant Method : I:\8270\sv103\230718n\FS230515nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jul 19 06:15:42 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv103\230718n\ABN0718n.D
 : 2 - I:\8270\sv103\230718n\ADP0718n.d
 : 3 - I:\8270\sv103\230718n\AP90718n.d
Sub List : 8270TCL_REV2 - TCL/CT/MA

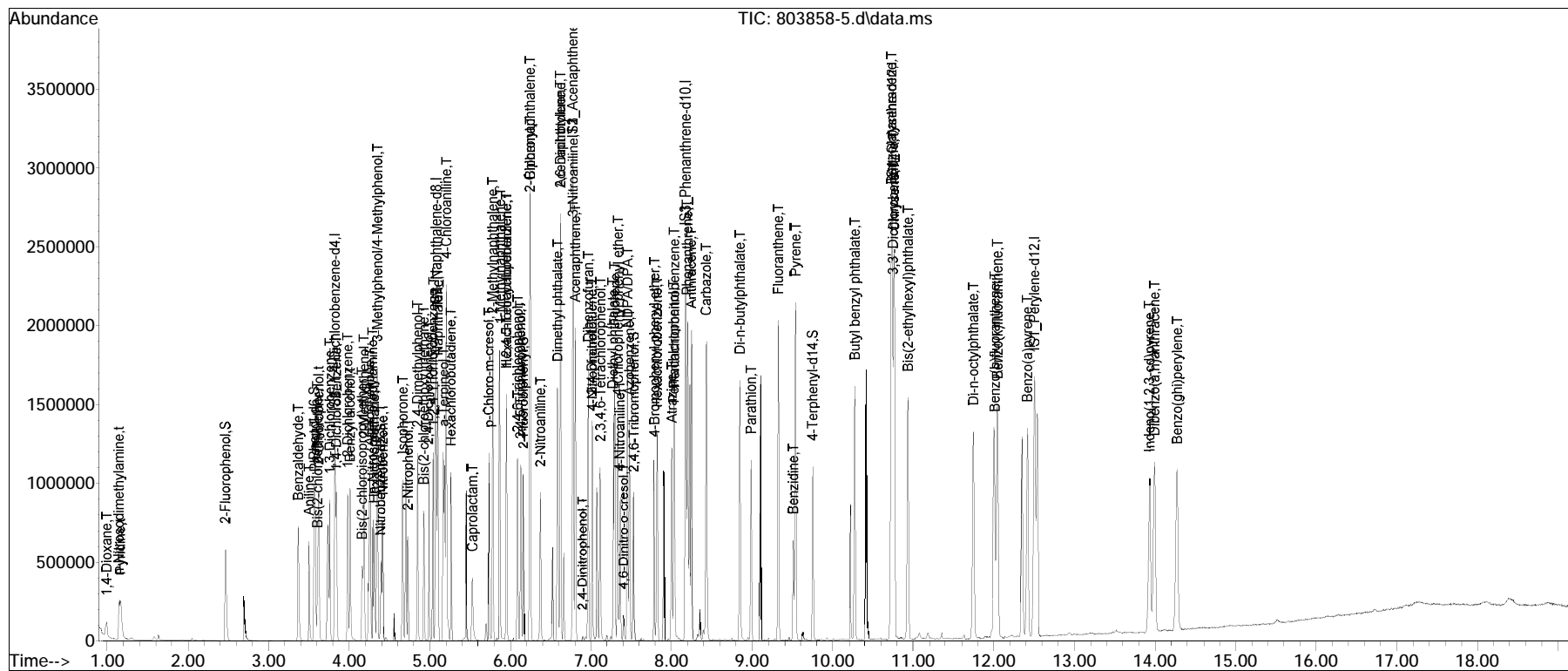
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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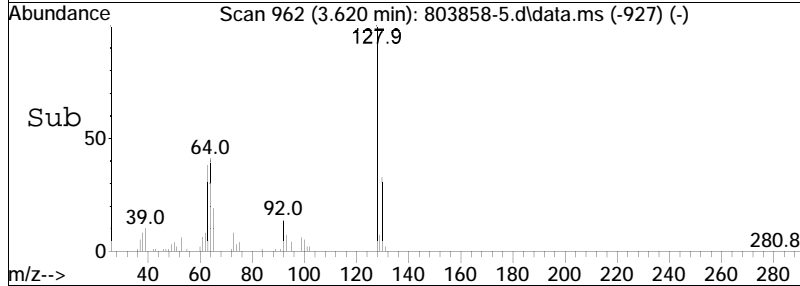
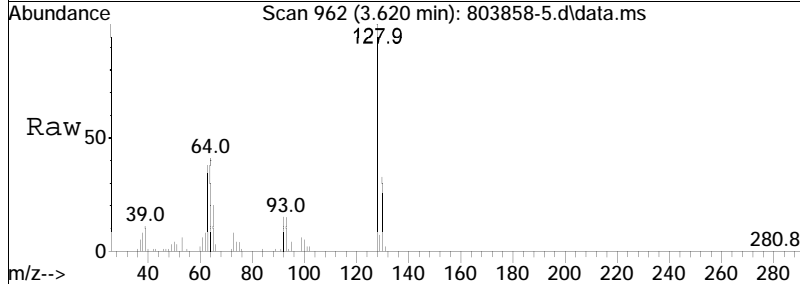
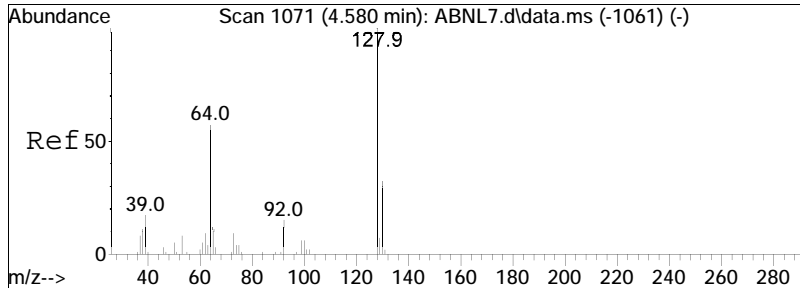
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\230718n\
 Data File : 803858-5.d
 Acq On : 19 Jul 2023 6:19 am
 Operator : SV103:ek
 Sample : WG1803858-5,32,,mg
 Misc : wg1804789,WG1803858,ical20013
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 25 18:09:49 2023
 Quant Method : I:\8270\sv103\230718n\Fs230515nSV103.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jul 19 06:15:42 2023
 Response via : Initial Calibration

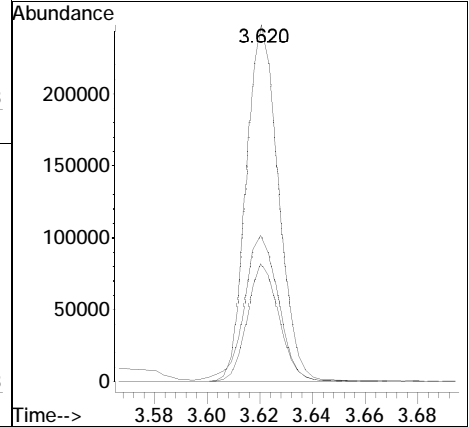
Sub List : 8270TCL_REV2 - TCL/CT/MAn\AP90718n.d•

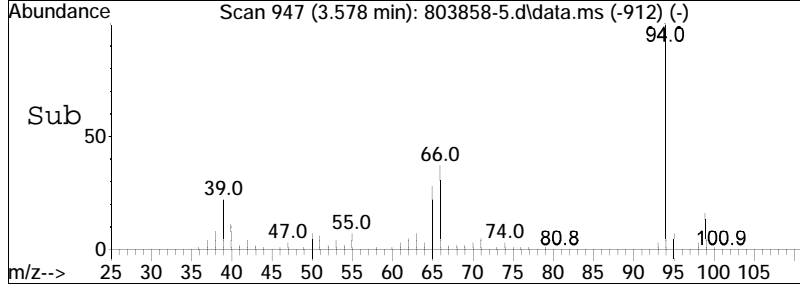
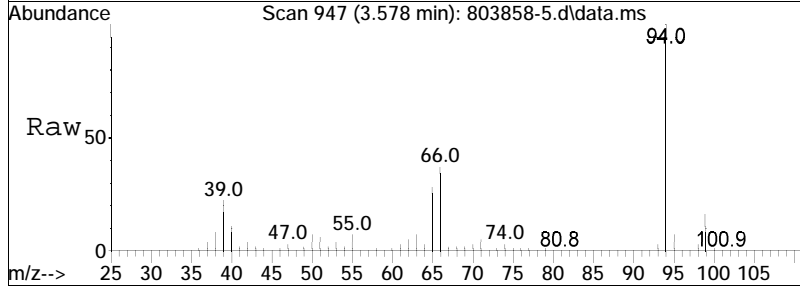
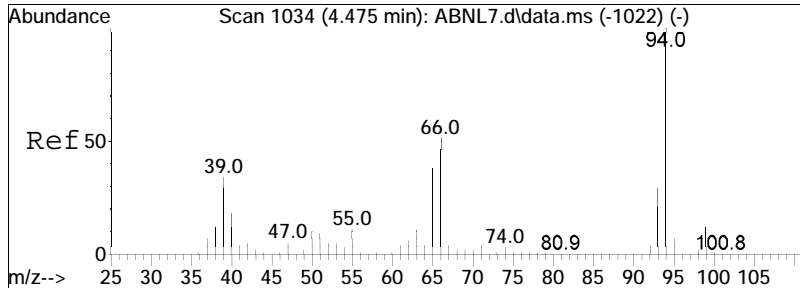




#6
 2-Chlorophenol
 Concen: 31.74 ug/ml
 RT: 3.620 min Scan# 962
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

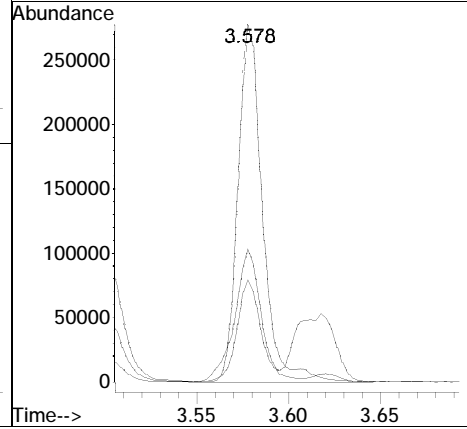
Tgt Ion	Ratio	Lower	Upper
128	100		
64	43.7	42.7	64.1
130	32.7	25.8	38.6

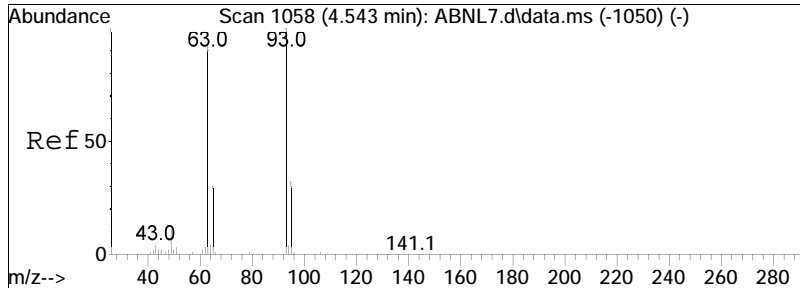




#8
 Phenol
 Concen: 31.56 ug/ml
 RT: 3.578 min Scan# 947
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

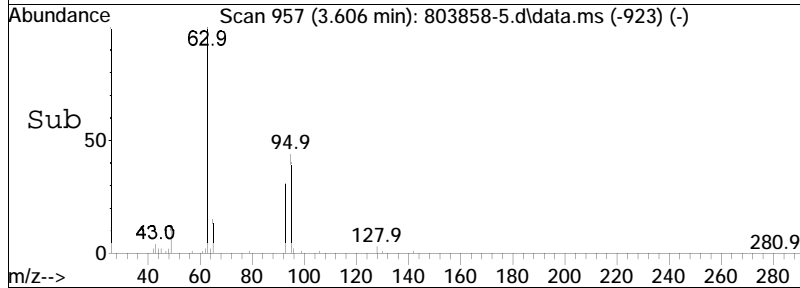
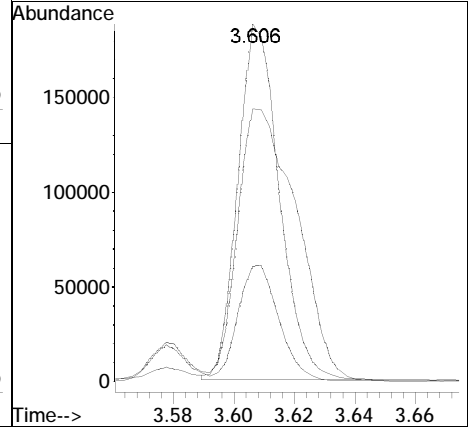
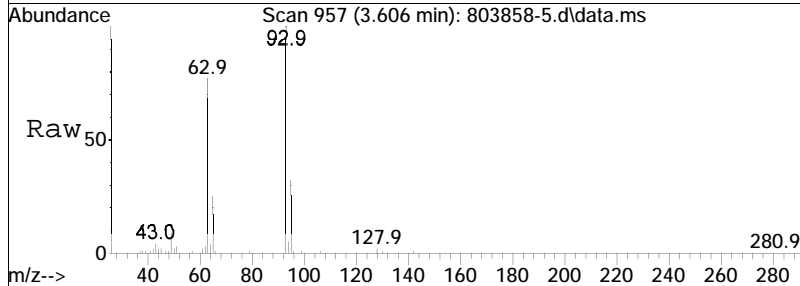
Tgt Ion:	Resp:	Lower	Upper
94	256038		
94	100		
65	27.7	20.5	30.7
66	39.9	0.0	0.0#

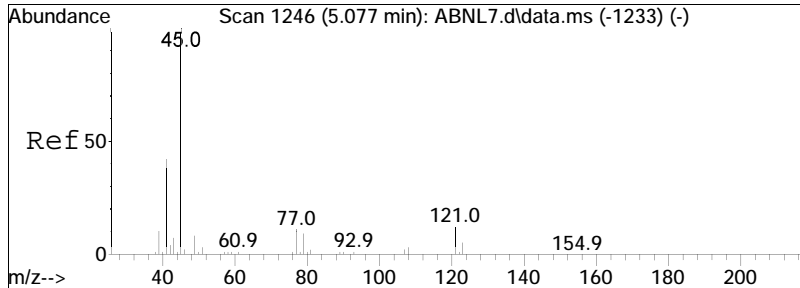




#9
 Bis(2-chloroethyl)ether
 Concen: 31.14 ug/ml
 RT: 3.606 min Scan# 957
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

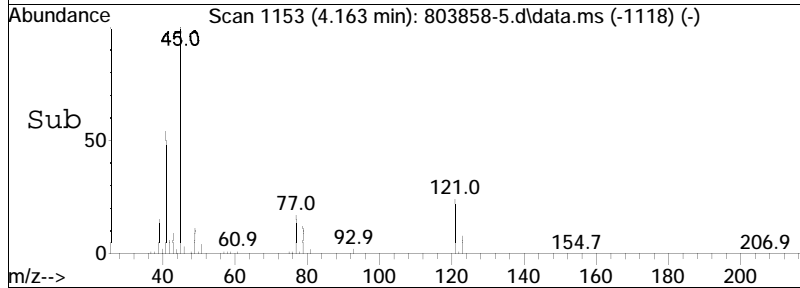
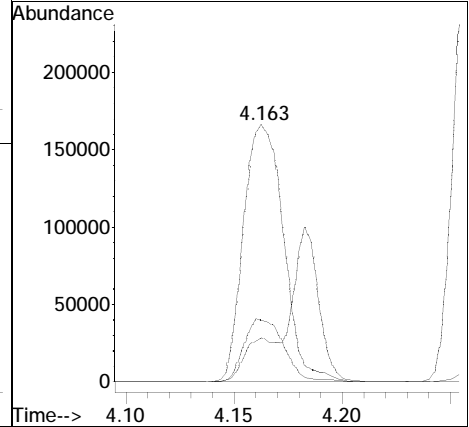
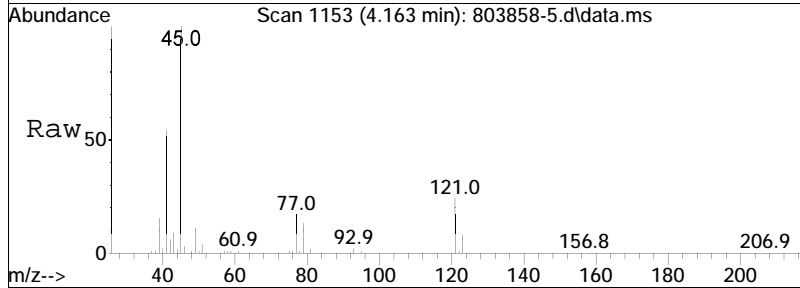
Tgt Ion:	93	Resp:	178433
Ion Ratio	Lower	Upper	
93	100		
63	108.0	70.4	105.6#
95	32.7	25.8	38.6

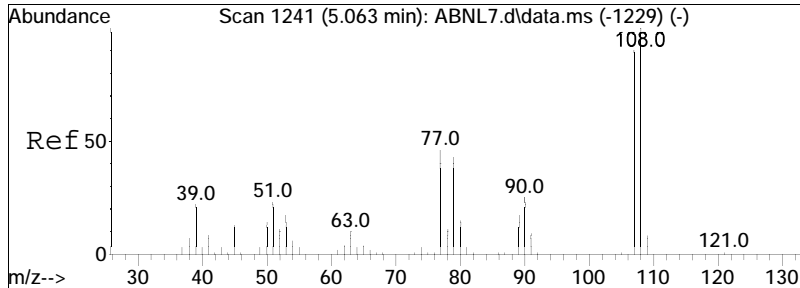




#14
 Bis(2-chloroisopropyl) ether
 Concen: 23.43 ug/ml
 RT: 4.163 min Scan# 1153
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

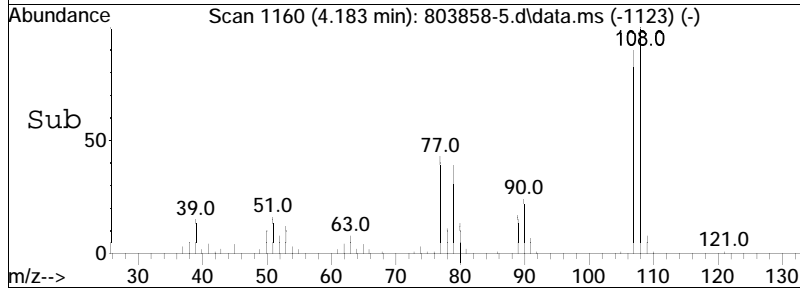
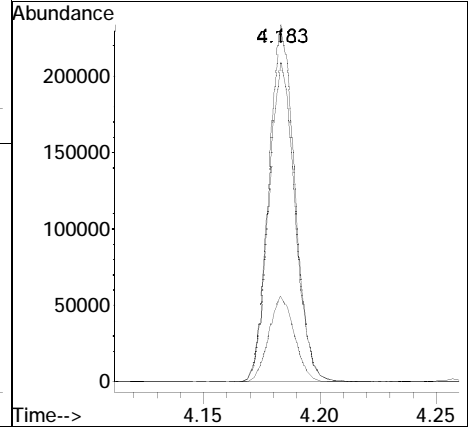
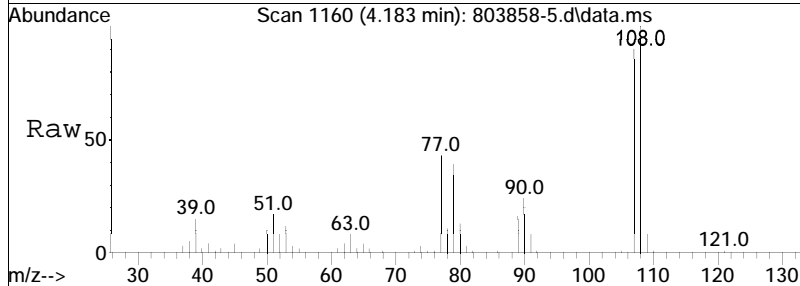
Tgt Ion	Resp	Lower	Upper
45	100		
121	24.5	12.6	19.0#
77	14.6	26.4	39.6#

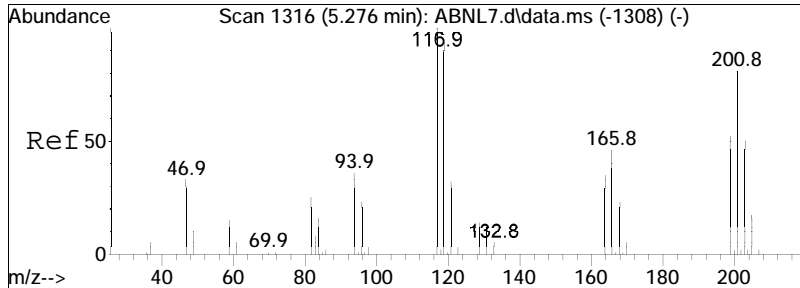




#15
 2-Methylphenol
 Concen: 31.92 ug/ml
 RT: 4.183 min Scan# 1160
 Delta R.T. 0.006 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

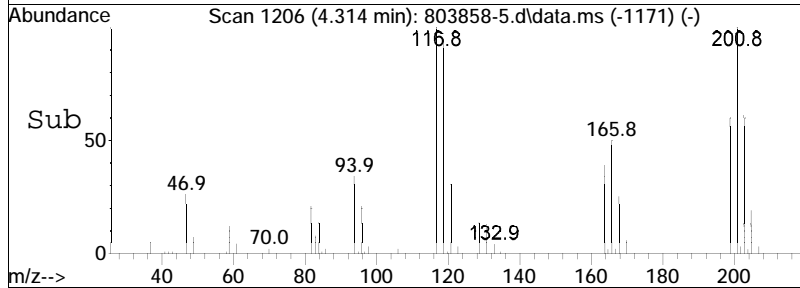
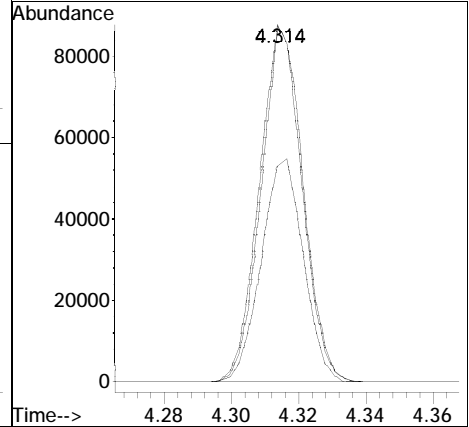
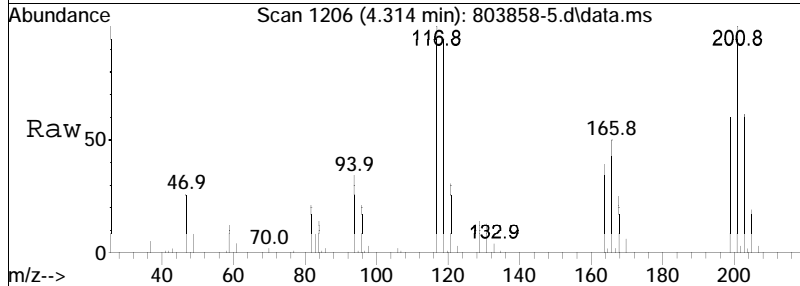
Tgt Ion	Ratio	Lower	Upper
108	100		
107	90.5	72.8	109.2
90	23.8	20.2	30.4

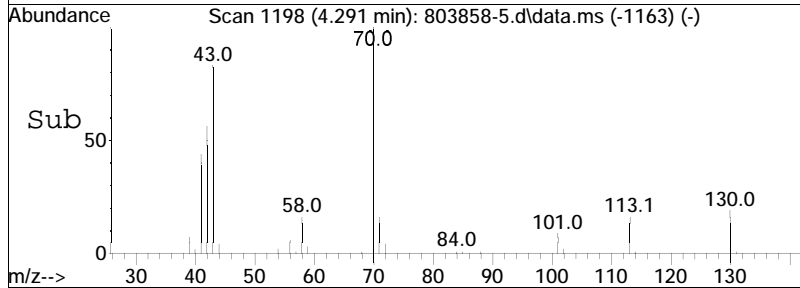
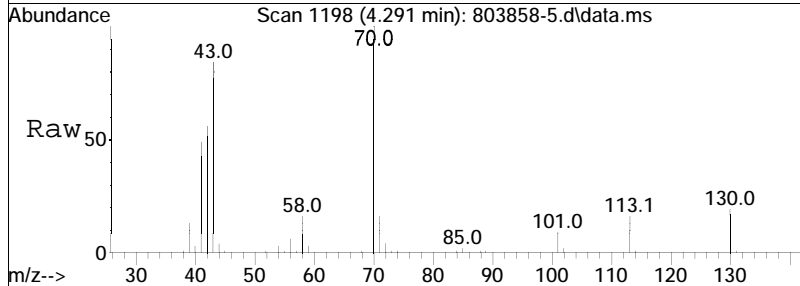
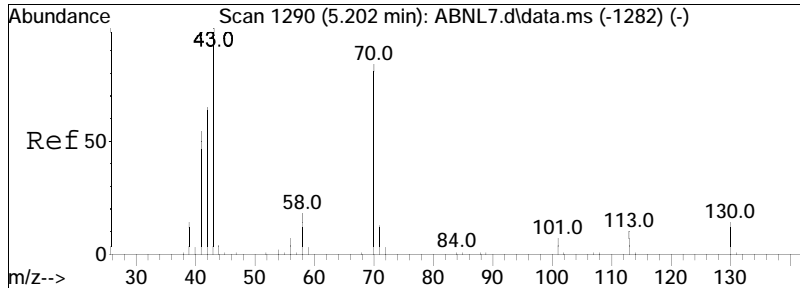




#16
 Hexachloroethane
 Concen: 28.15 ug/ml
 RT: 4.314 min Scan# 1206
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

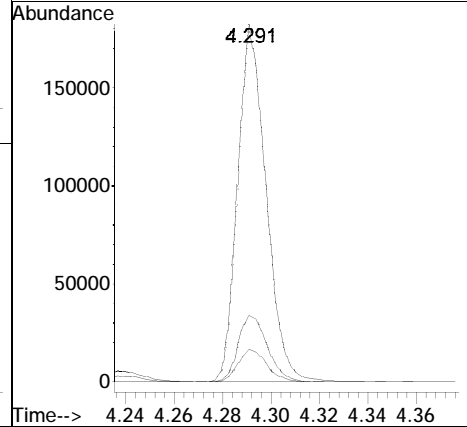
Tgt Ion	Resp	Lower	Upper
117	100		
201	98.4	64.5	96.7#
199	62.2	40.3	60.5#

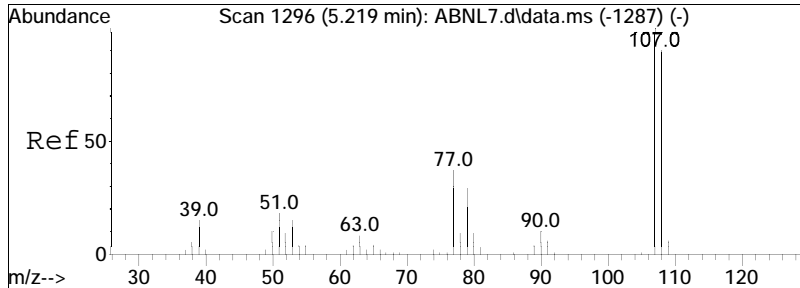




#17
 n-Nitrosodi-n-propylamine
 Concen: 37.10 ug/ml
 RT: 4.291 min Scan# 1198
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

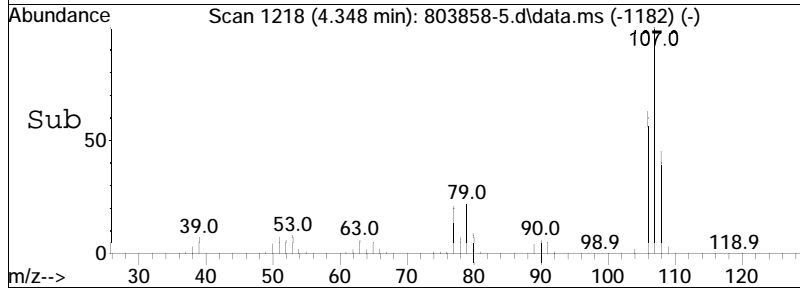
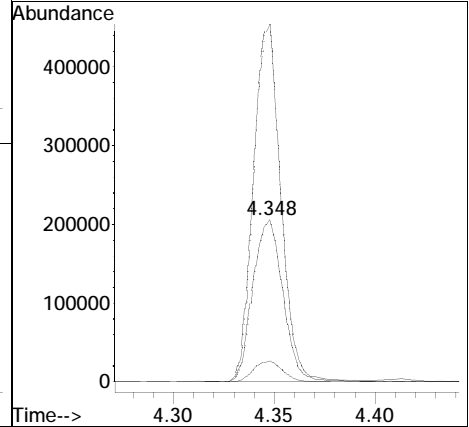
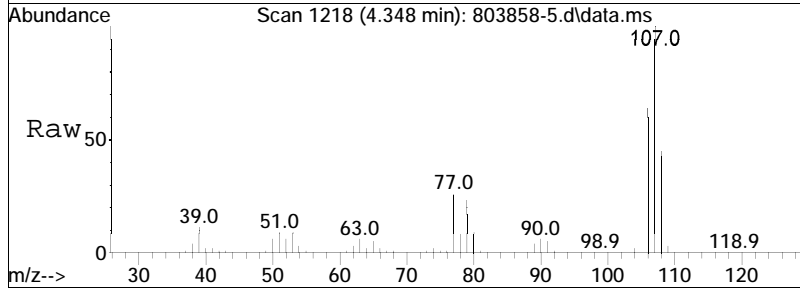
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
70	100		
130	19.1	15.0	22.4
101	9.3	7.4	11.0

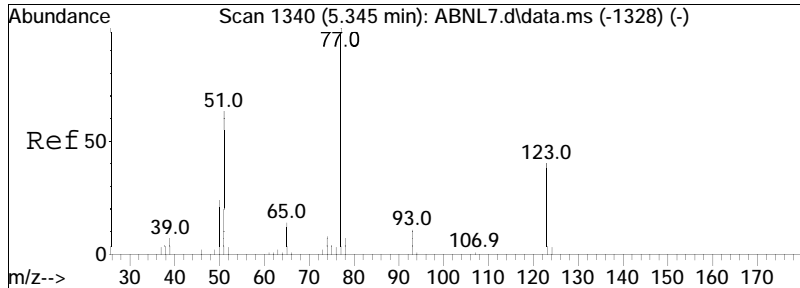




#18
 3-Methylphenol/4-Methylphenol
 Concen: 35.49 ug/ml
 RT: 4.348 min Scan# 1218
 Delta R.T. 0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

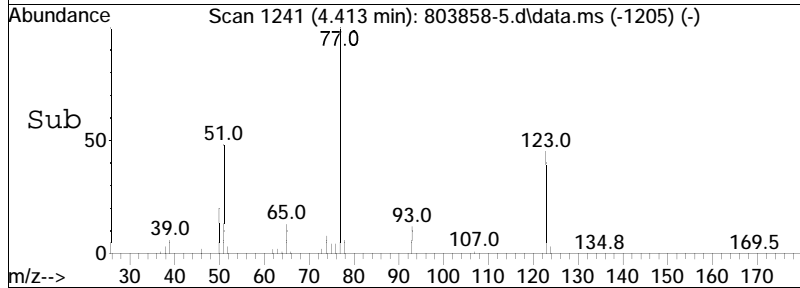
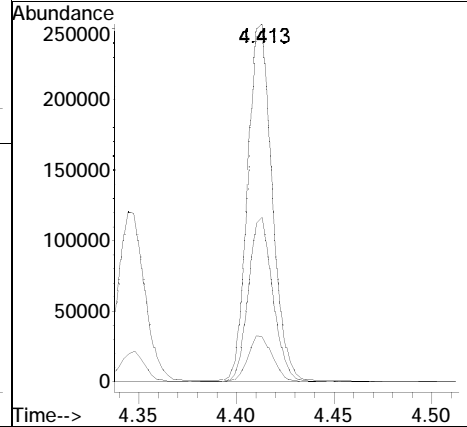
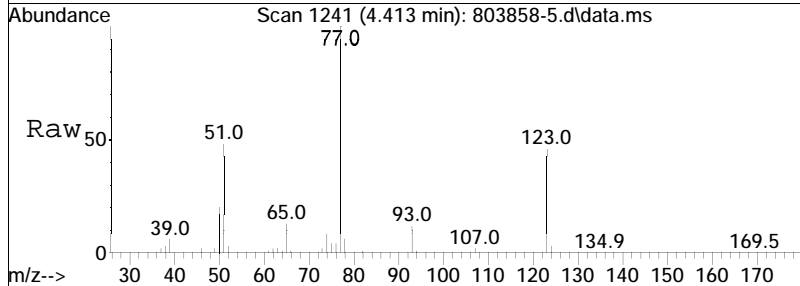
Tgt Ion	Resp	Lower	Upper
108	211657		
108	100		
107	199.4	90.4	135.6#
90	12.6	9.2	13.8

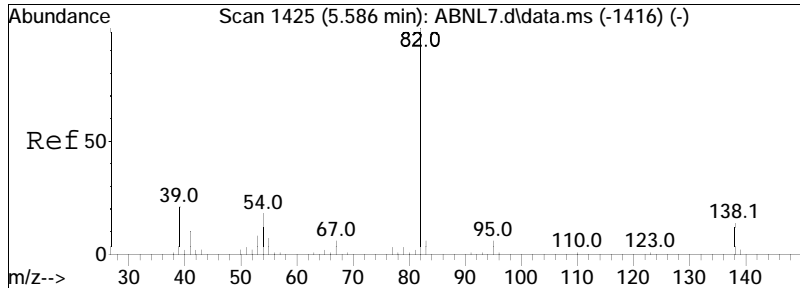




#20
 Nitrobenzene
 Concen: 36.96 ug/ml
 RT: 4.413 min Scan# 1241
 Delta R.T. 0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

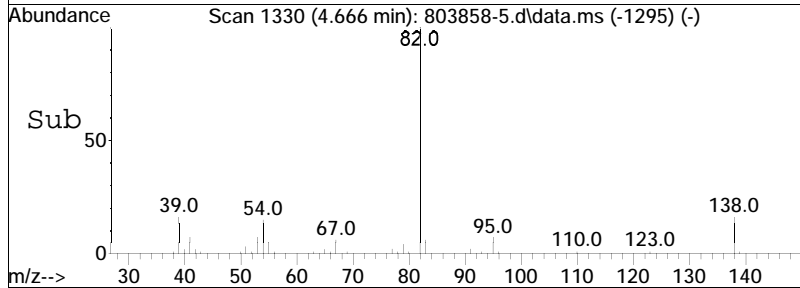
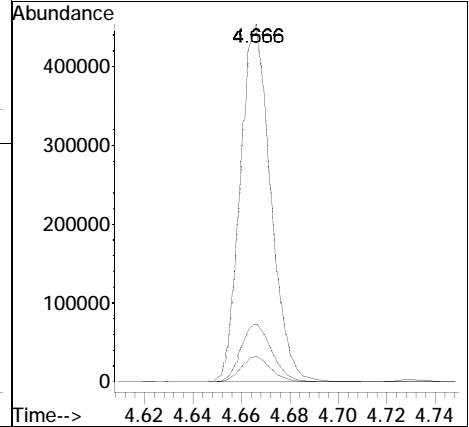
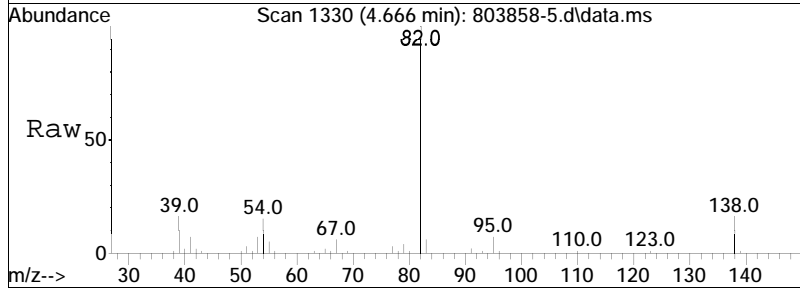
Tgt Ion	Resp	Lower	Upper
77	100		
123	46.4	35.0	52.4
65	13.2	11.5	17.3

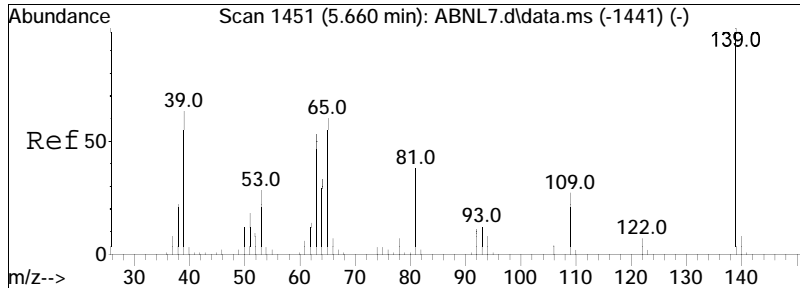




#21
 Isophorone
 Concen: 36.23 ug/ml
 RT: 4.666 min Scan# 1330
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

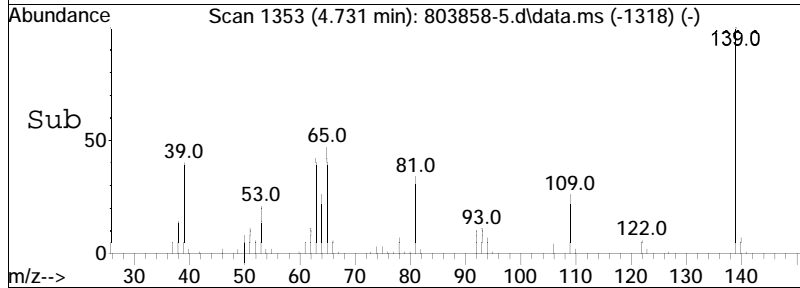
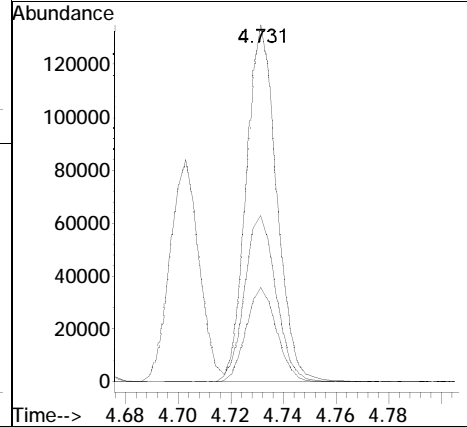
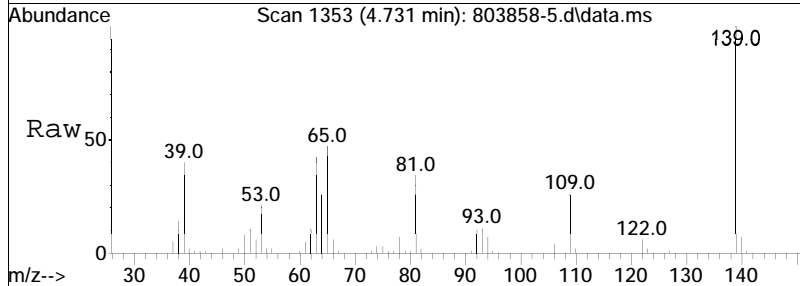
Tgt Ion:	82	Resp:	390327
Ion Ratio	100	Lower	Upper
138	16.4	12.8	19.2
95	7.0	5.5	8.3

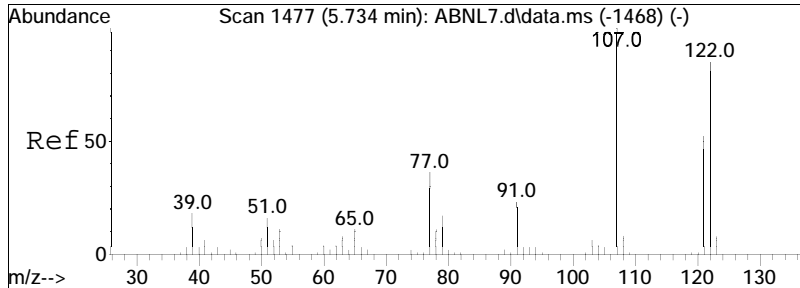




#22
 2-Nitrophenol
 Concen: 37.35 ug/ml
 RT: 4.731 min Scan# 1353
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

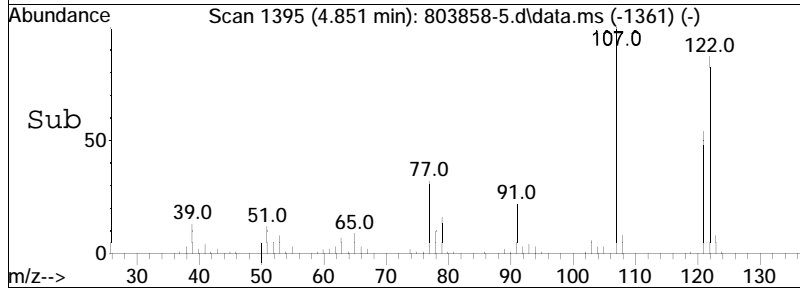
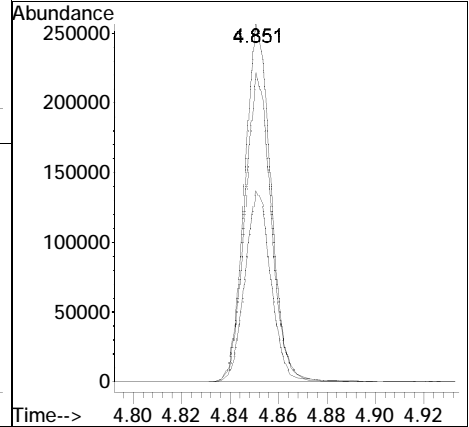
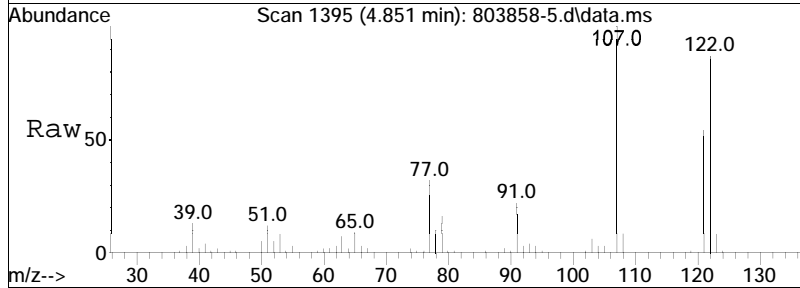
Tgt Ion	Resp	Lower	Upper
139	108541		
139	100		
109	26.6	24.8	37.2
65	48.1	45.5	68.3

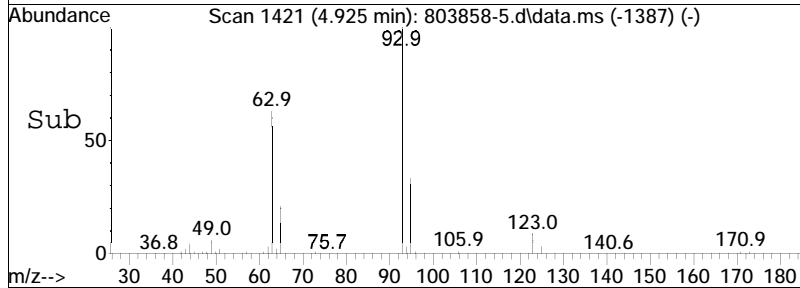
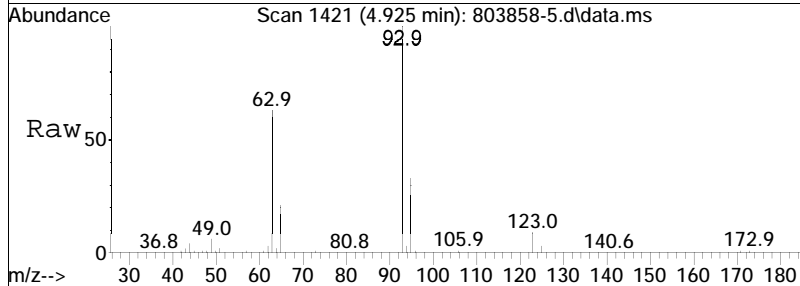
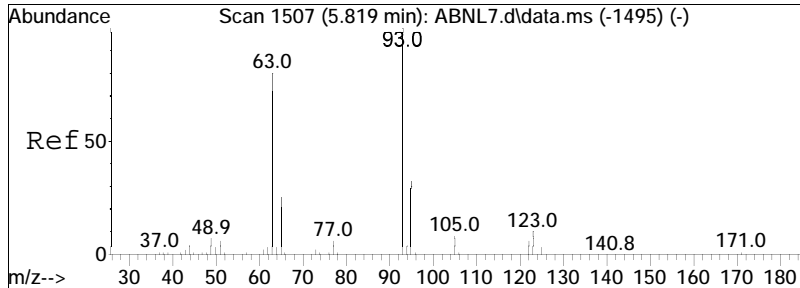




#23
 2,4-Dimethylphenol
 Concen: 31.53 ug/ml
 RT: 4.851 min Scan# 1395
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

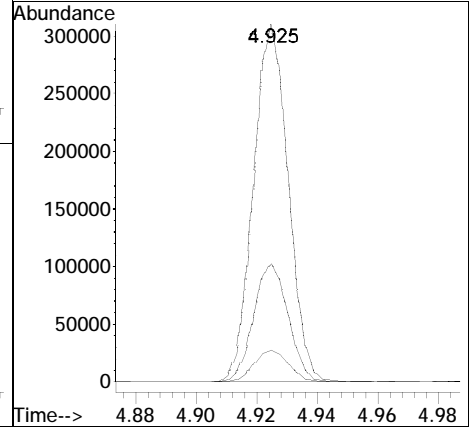
Tgt Ion	Resp	Lower	Upper
107	100		
121	52.8	39.7	59.5
122	85.9	66.8	100.2

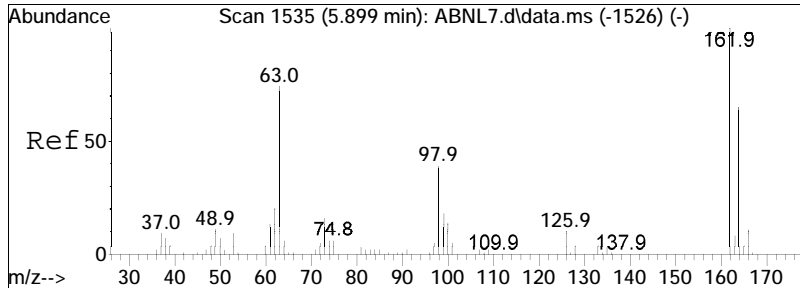




#24
 Bis(2-chloroethoxy)methane
 Concen: 35.03 ug/ml
 RT: 4.925 min Scan# 1421
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

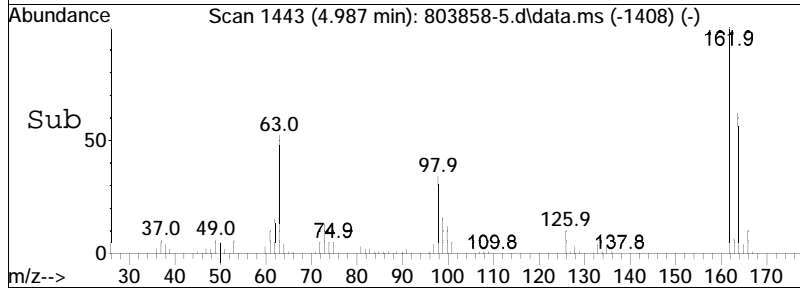
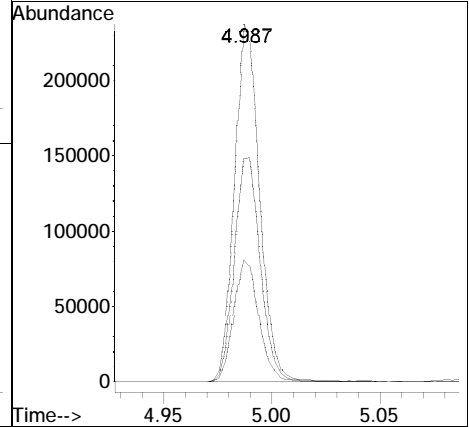
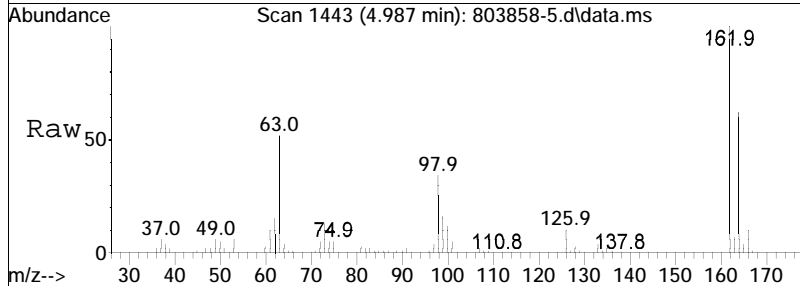
Tgt Ion:	93	Resp:	245128
Ion Ratio	100	Lower	Upper
93	100		
95	33.0	26.1	39.1
123	8.9	9.8	14.8#

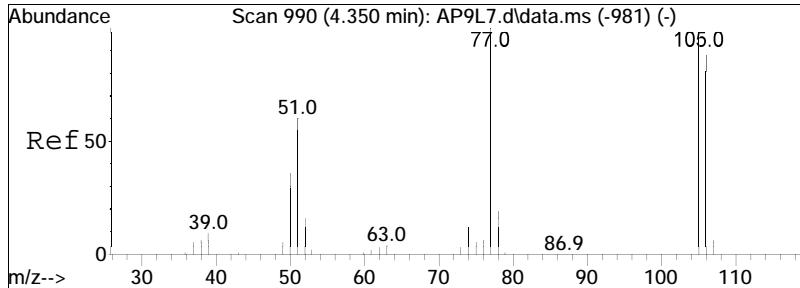




#25
 2,4-Dichlorophenol
 Concen: 35.26 ug/ml
 RT: 4.987 min Scan# 1443
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

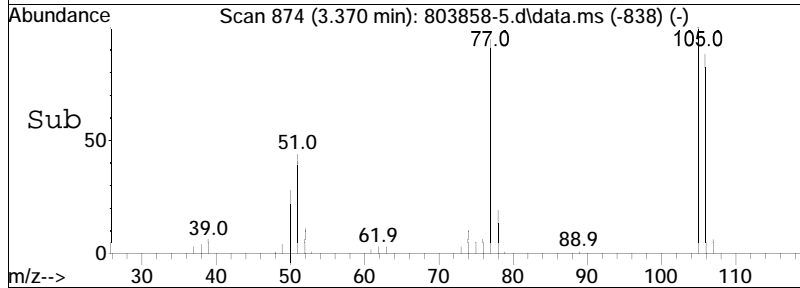
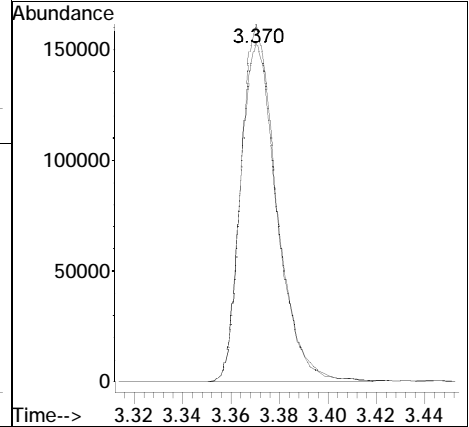
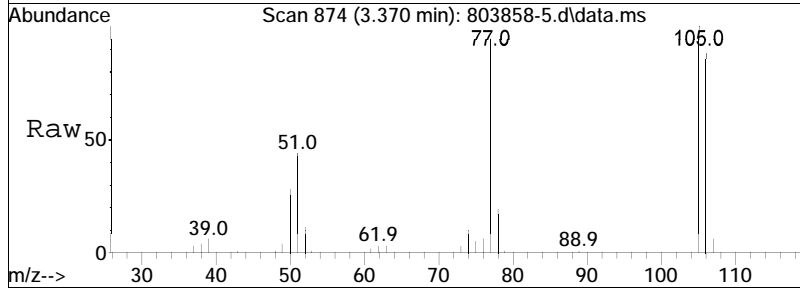
Tgt Ion	Resp	Lower	Upper
162	100		
164	64.6	50.4	75.6
98	34.3	31.6	47.4

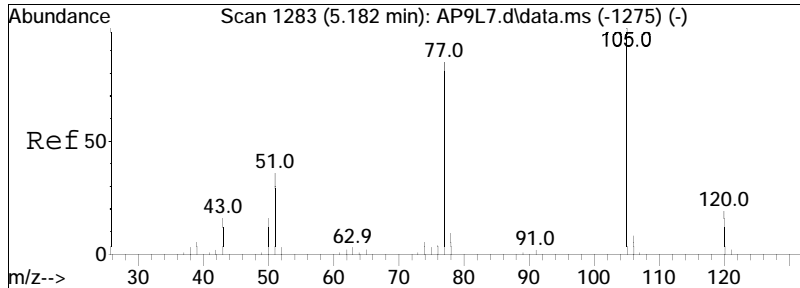




#28
 Benzaldehyde
 Concen: 37.21 ug/ml
 RT: 3.370 min Scan# 874
 Delta R.T. 0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

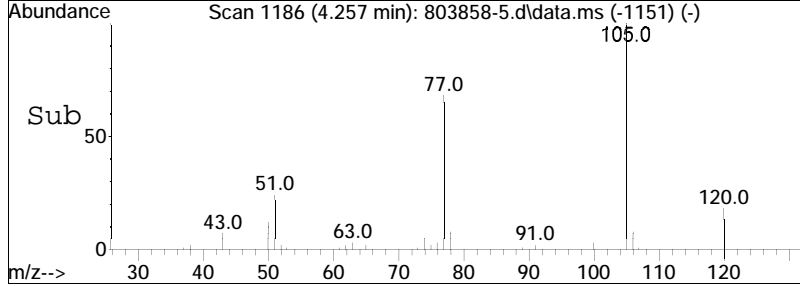
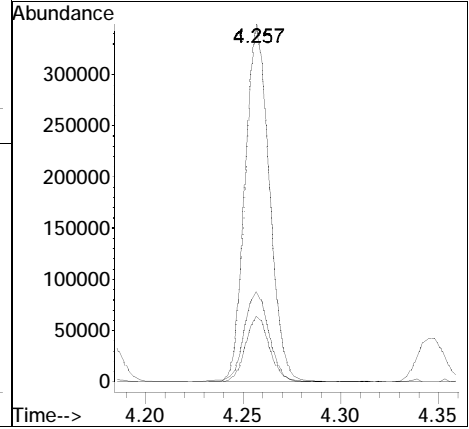
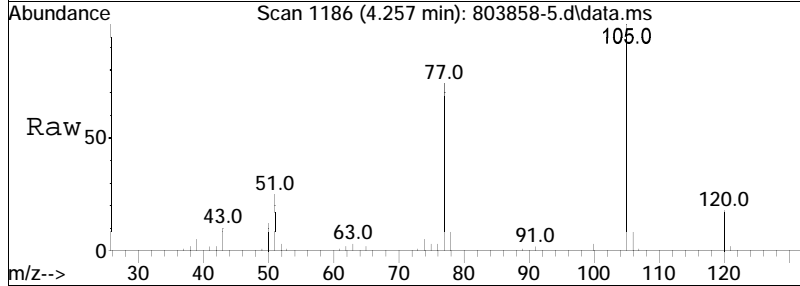
Tgt Ion	105	Resp	163524
Ion Ratio	Lower	Upper	
105	100		
77	96.3	72.0	108.0

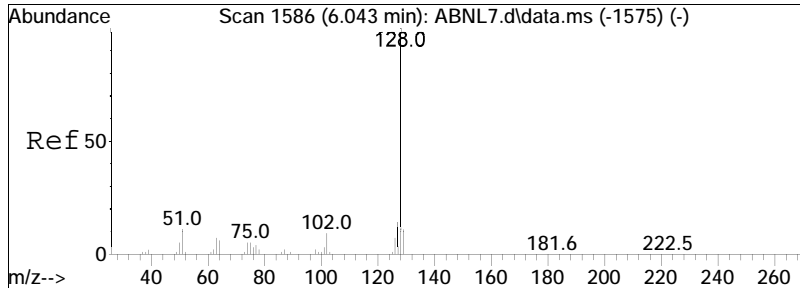




#29
 Acetophenone
 Concen: 33.63 ug/ml
 RT: 4.257 min Scan# 1186
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

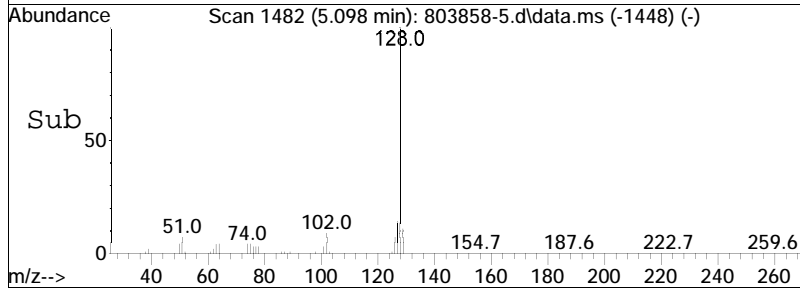
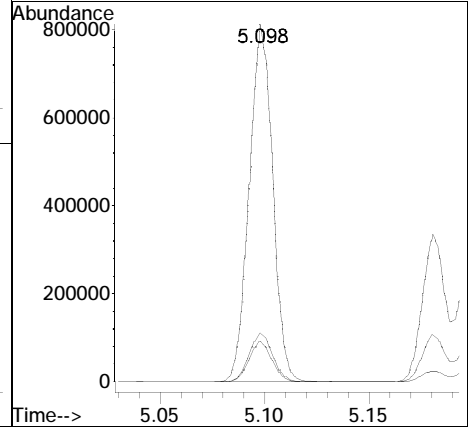
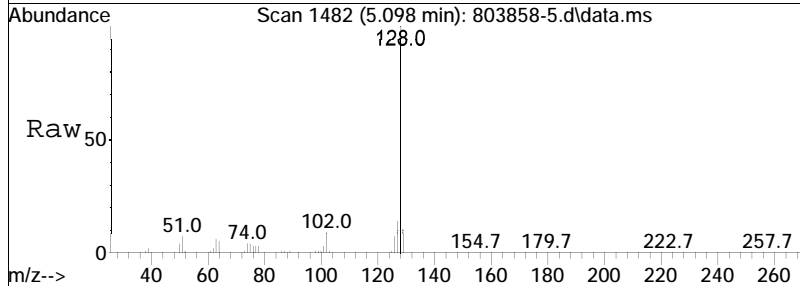
Tgt Ion	Resp	Lower	Upper
105	299148		
105	100		
120	18.2	18.0	27.0
51	26.2	23.8	35.6

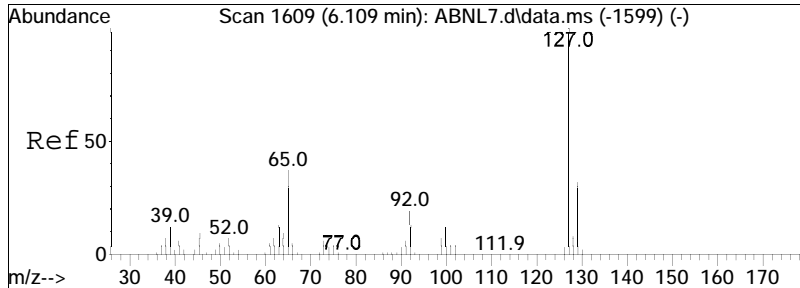




#36
 Naphthalene
 Concen: 29.29 ug/ml
 RT: 5.098 min Scan# 1482
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

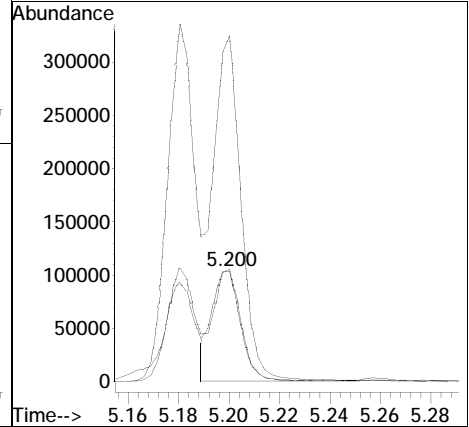
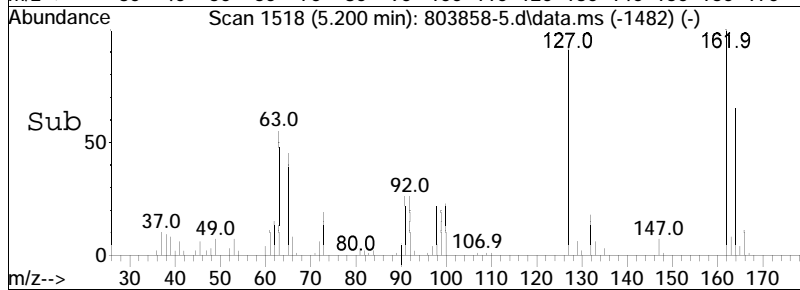
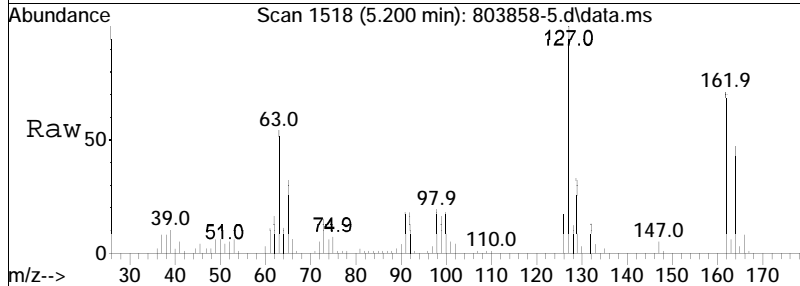
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.7	13.1
127	13.7	10.7	16.1

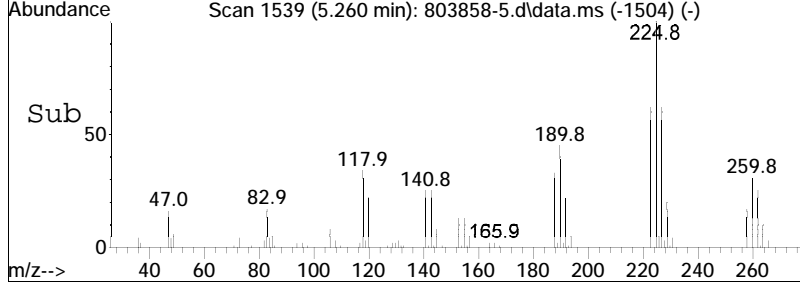
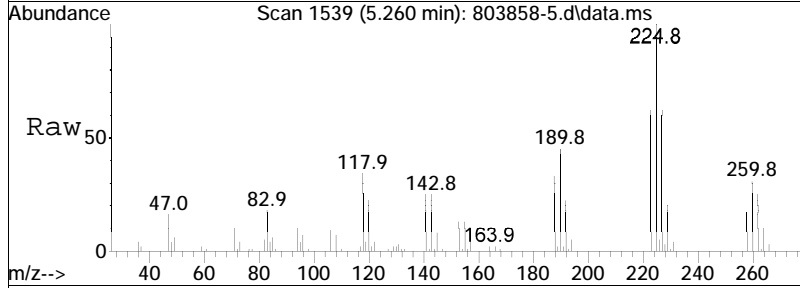
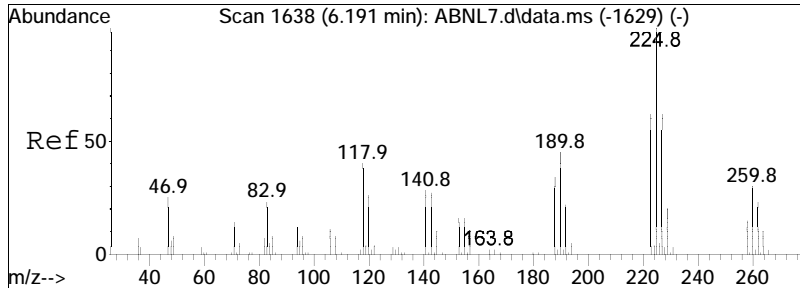




#38
 4-Chloroaniline
 Concen: 36.78 ug/ml
 RT: 5.200 min Scan# 1518
 Delta R.T. 0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

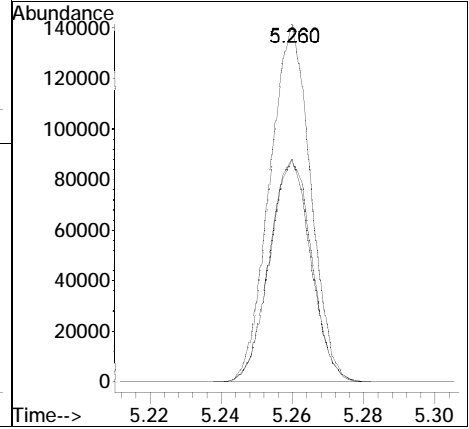
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
65	100		
127	303.4	233.2	349.8
129	99.9	74.6	111.8

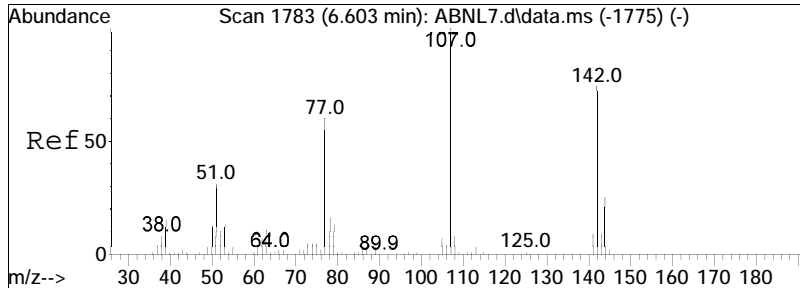




#39
 Hexachlorobutadiene
 Concen: 31.47 ug/ml
 RT: 5.260 min Scan# 1539
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

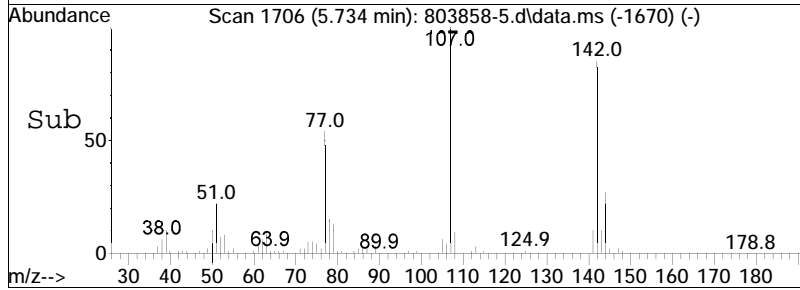
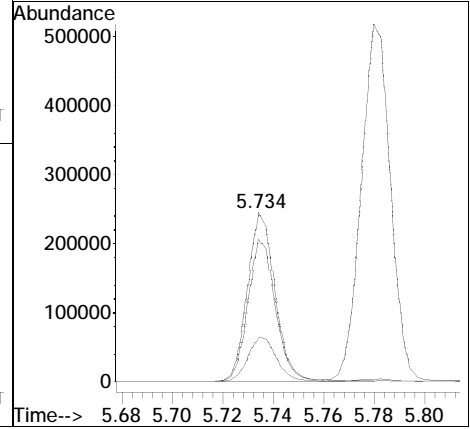
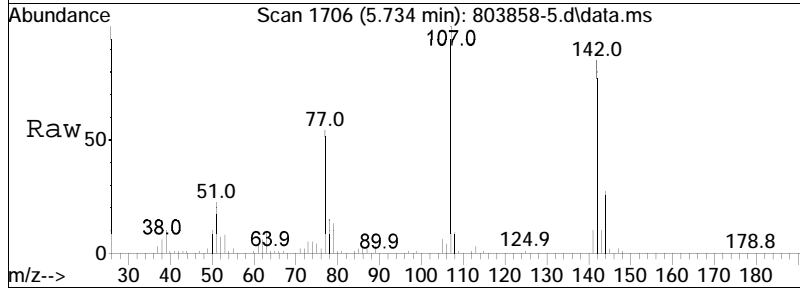
Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	49.4	74.0
227	63.8	50.8	76.2

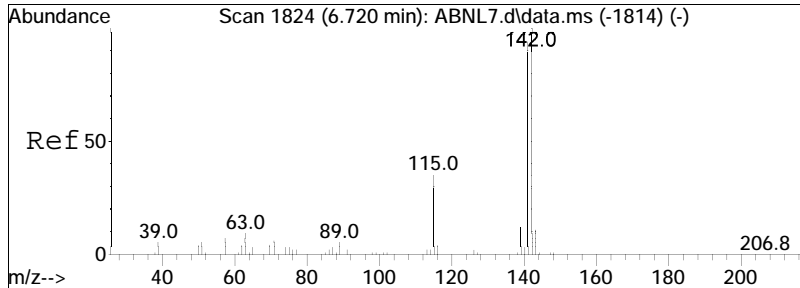




#40
 p-Chloro-m-cresol
 Concen: 34.69 ug/ml
 RT: 5.734 min Scan# 1706
 Delta R.T. 0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

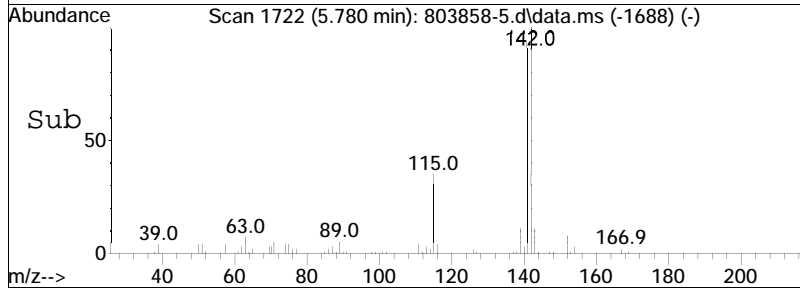
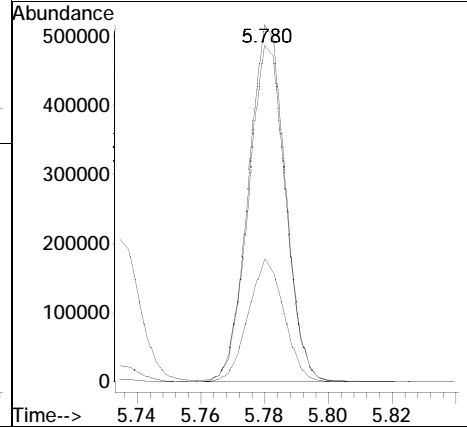
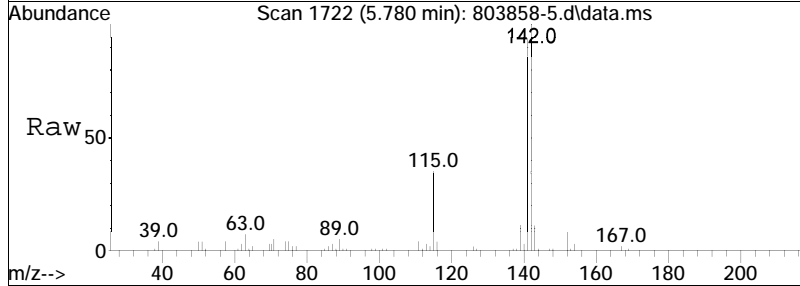
Tgt Ion	Resp	Lower	Upper
107	100		
144	27.0	19.6	29.4
142	83.3	62.2	93.4

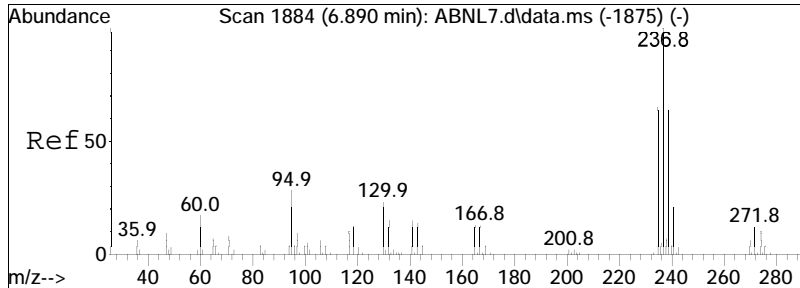




#41
 2-Methylnaphthalene
 Concen: 30.97 ug/ml
 RT: 5.780 min Scan# 1722
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

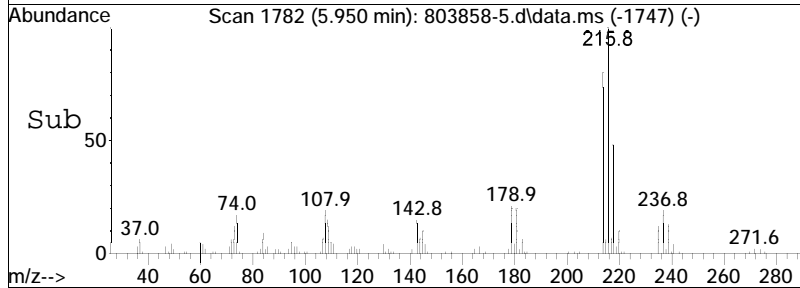
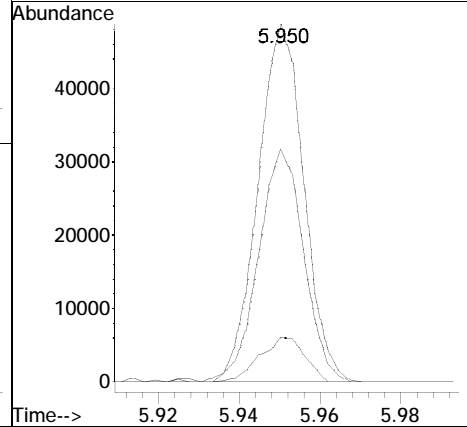
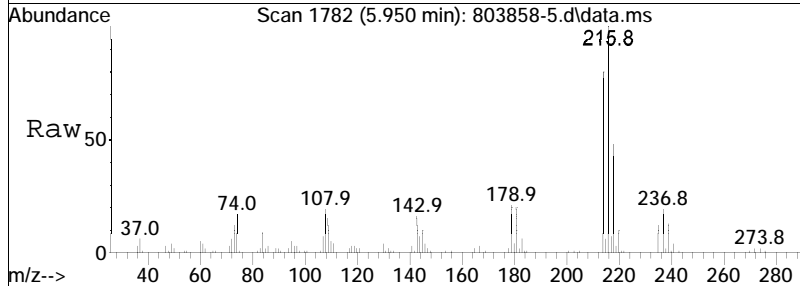
Tgt Ion	Resp	Lower	Upper
142	100		
141	94.8	71.8	107.8
115	33.5	29.1	43.7

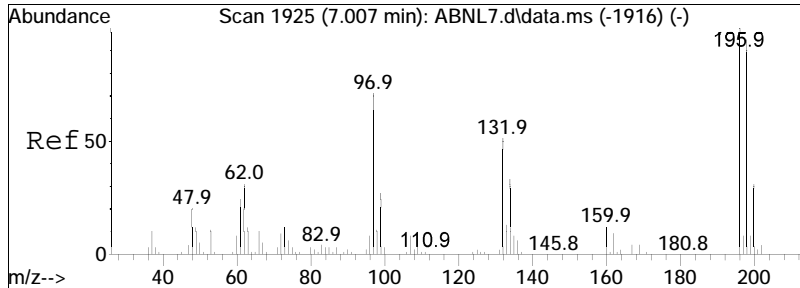




#43
 Hexachlorocyclopentadiene
 Concen: 9.85 ug/ml
 RT: 5.950 min Scan# 1782
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

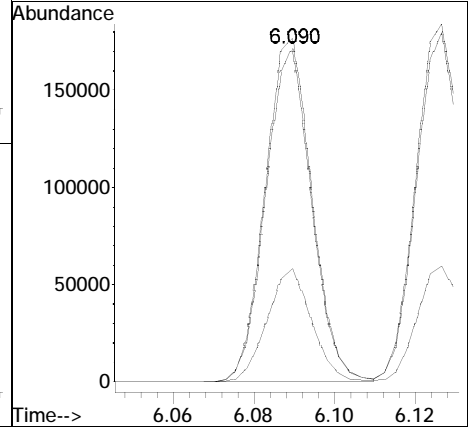
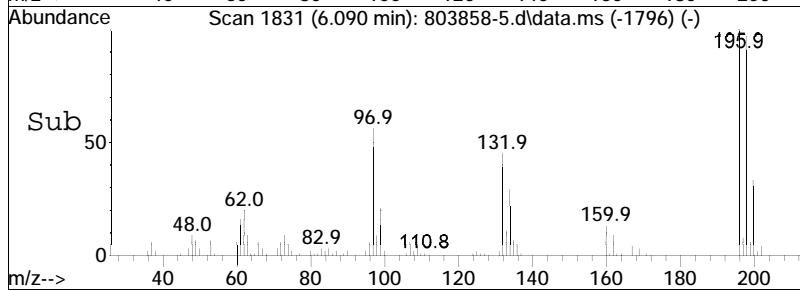
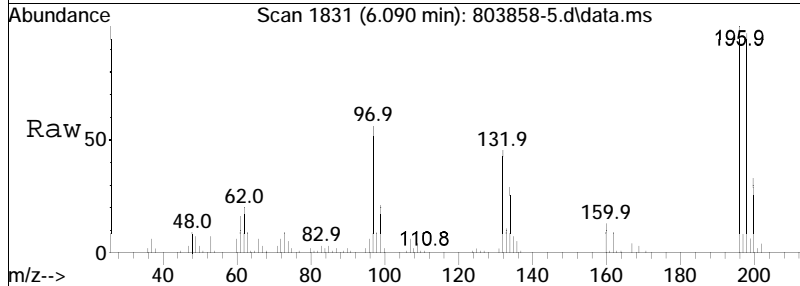
Tgt Ion	Resp	Lower	Upper
237	100		
235	64.7	47.8	71.6
272	12.4	10.4	15.6

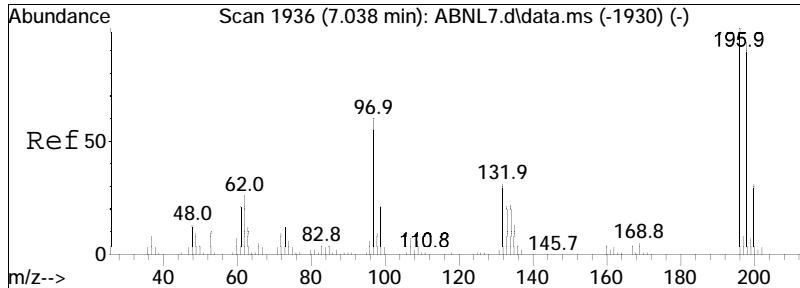




#44
 2,4,6-Trichlorophenol
 Concen: 37.25 ug/ml
 RT: 6.090 min Scan# 1831
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

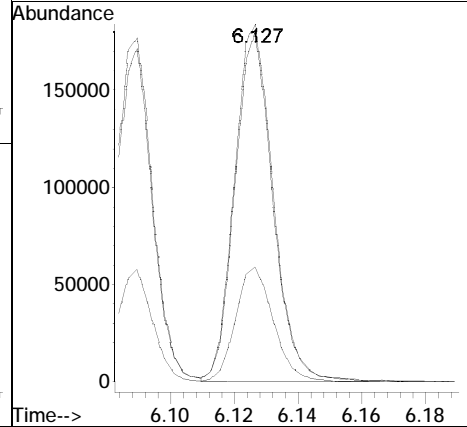
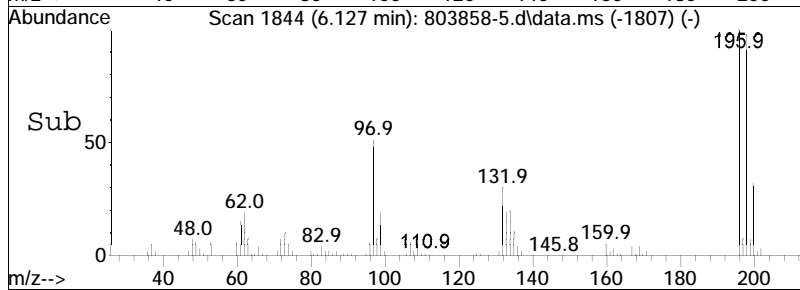
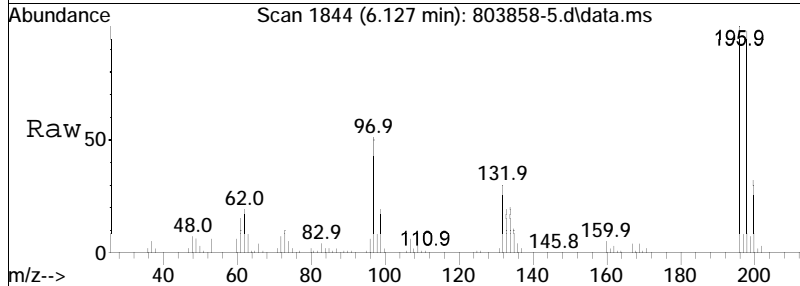
Tgt Ion	Resp	Lower	Upper
196	142368		
196	100		
198	94.8	81.5	122.3
200	31.4	26.2	39.2

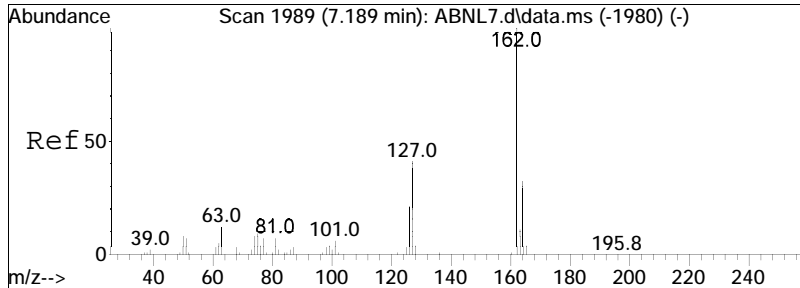




#45
 2,4,5-Trichlorophenol
 Concen: 35.56 ug/ml
 RT: 6.127 min Scan# 1844
 Delta R.T. 0.006 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

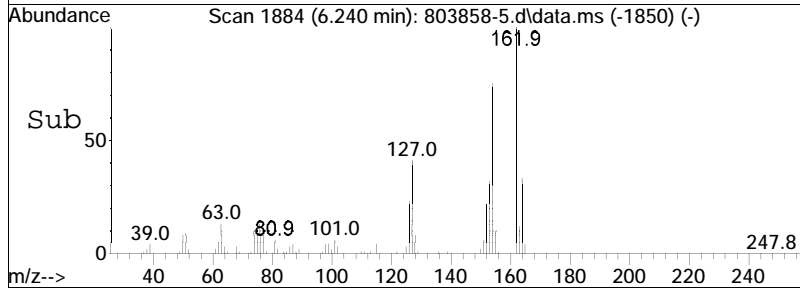
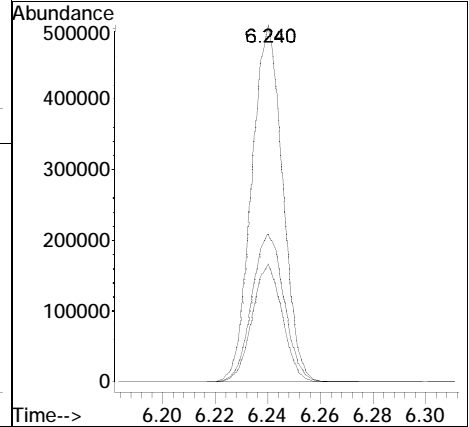
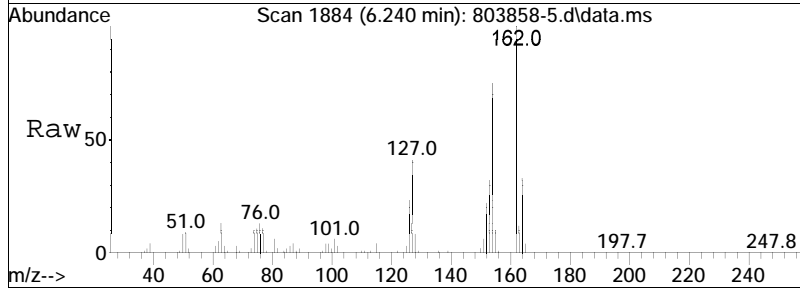
Tgt Ion	Resp	Lower	Upper
196	100		
200	31.9	25.5	38.3
198	95.6	79.2	118.8

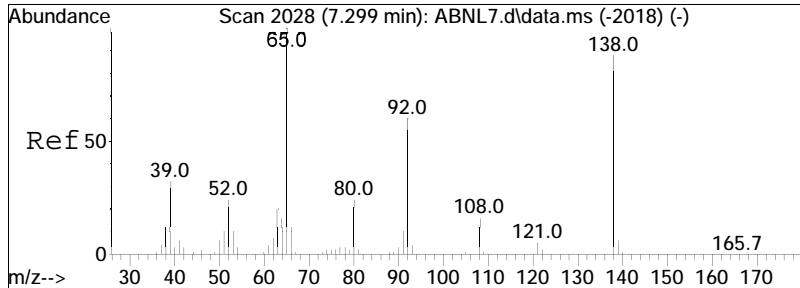




#47
 2-Chloronaphthalene
 Concen: 31.05 ug/ml
 RT: 6.240 min Scan# 1884
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

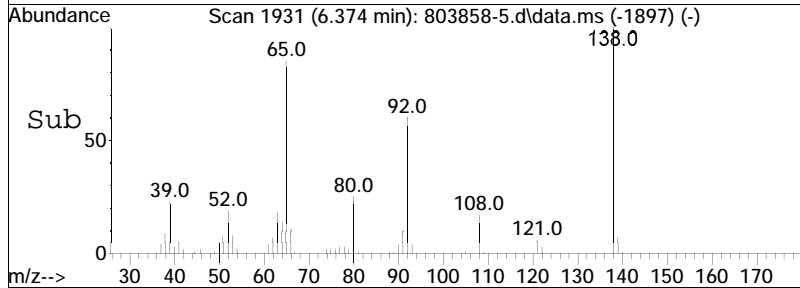
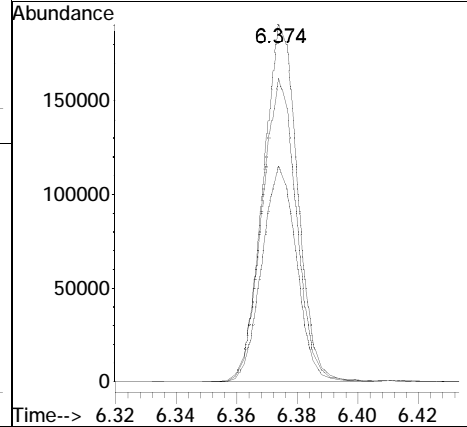
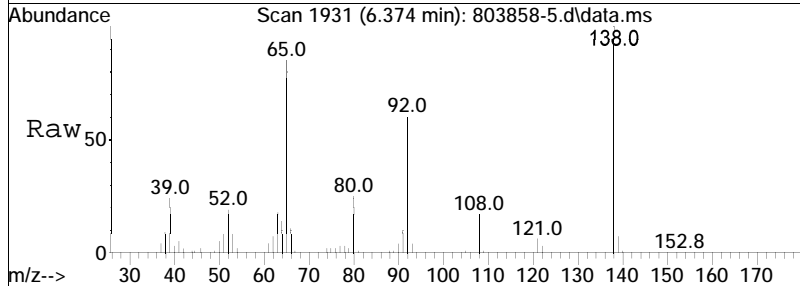
Tgt Ion	Ratio	Lower	Upper
162	100		
127	43.2	33.6	50.4
164	32.3	25.8	38.8

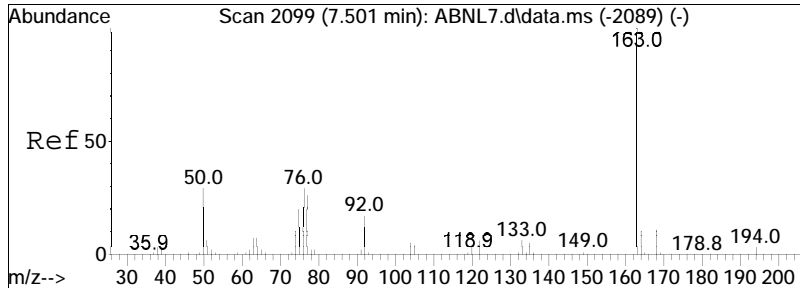




#48
 2-Nitroaniline
 Concen: 36.25 ug/ml
 RT: 6.374 min Scan# 1931
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

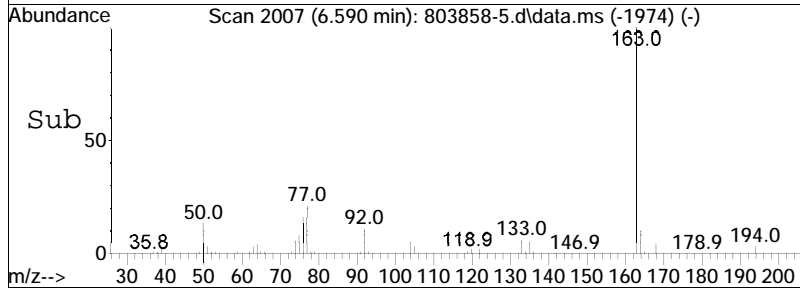
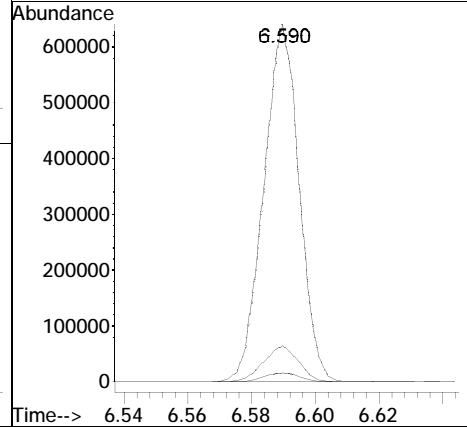
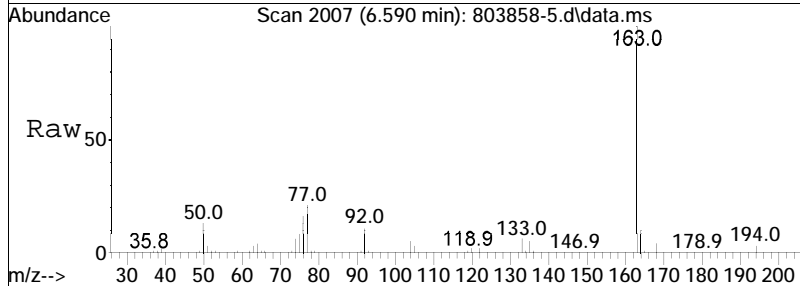
Tgt Ion	Resp	Lower	Upper
138	149625		
138	100		
92	60.8	54.2	81.2
65	85.1	82.8	124.2

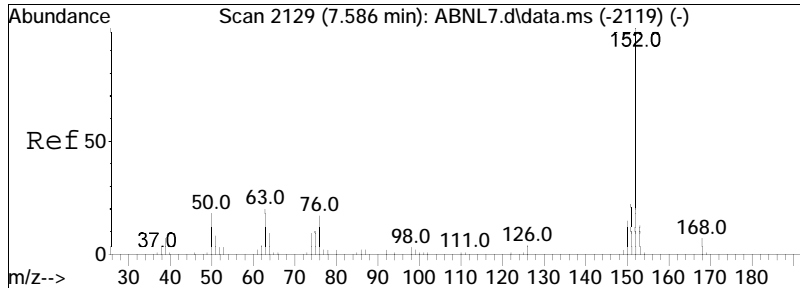




#51
 Dimethyl phthalate
 Concen: 32.21 ug/ml
 RT: 6.590 min Scan# 2007
 Delta R.T. -0.006 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

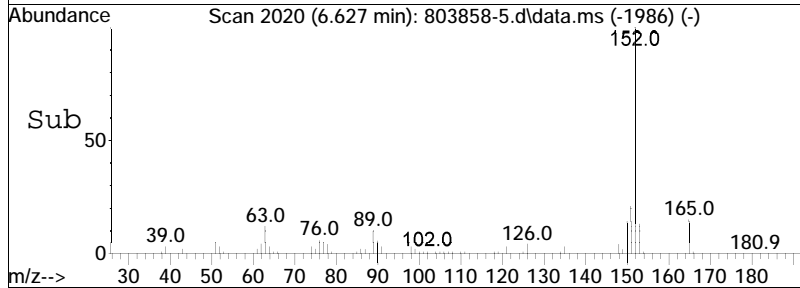
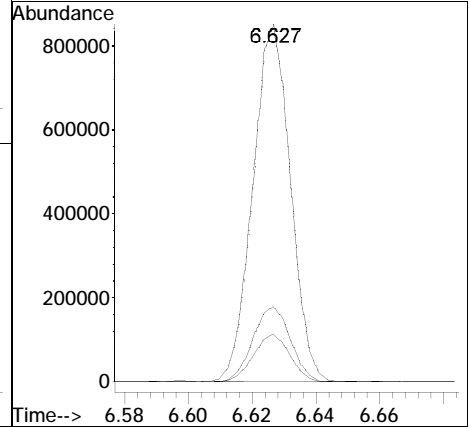
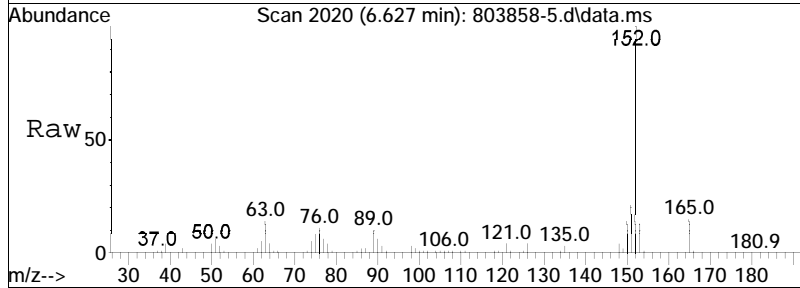
Tgt Ion	Ratio	Lower	Upper
163	100		
194	2.6	2.6	4.0#
164	10.1	8.2	12.4

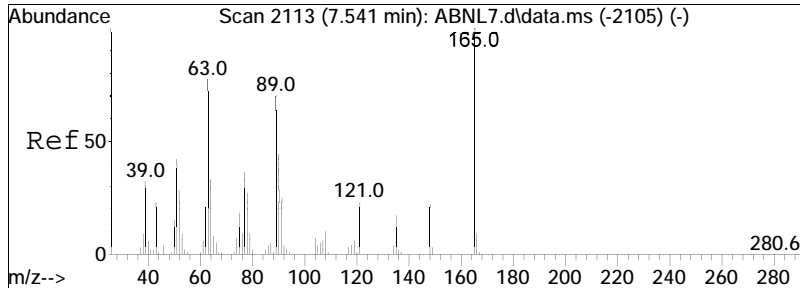




#52
 Acenaphthylene
 Concen: 34.08 ug/ml
 RT: 6.627 min Scan# 2020
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

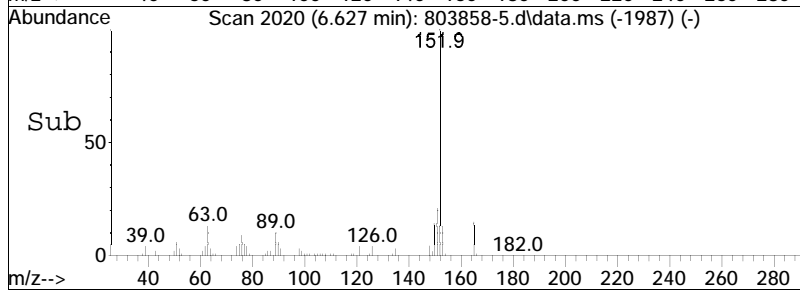
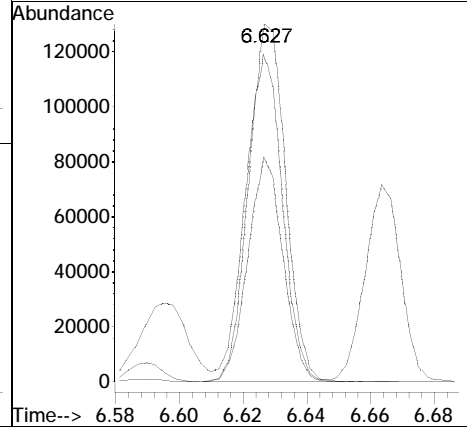
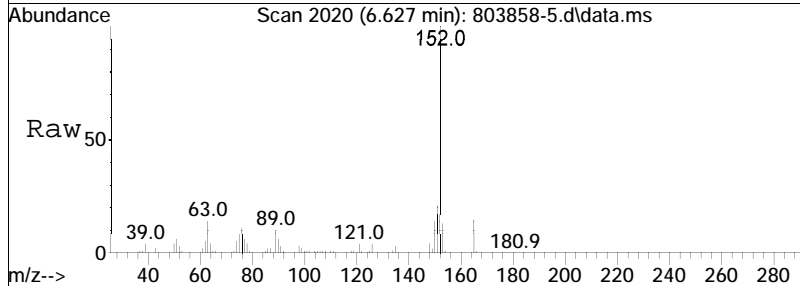
Tgt Ion	Resp	Lower	Upper
152	100		
151	21.2	16.4	24.6
153	13.2	11.0	16.6

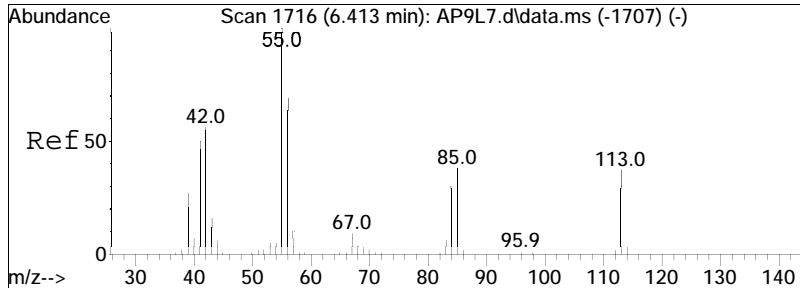




#53
 2,6-Dinitrotoluene
 Concen: 33.55 ug/ml
 RT: 6.627 min Scan# 2020
 Delta R.T. -0.006 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

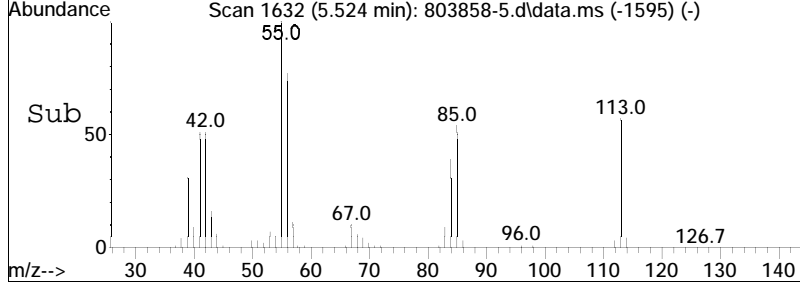
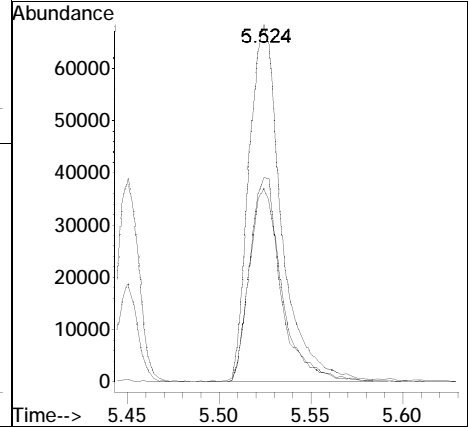
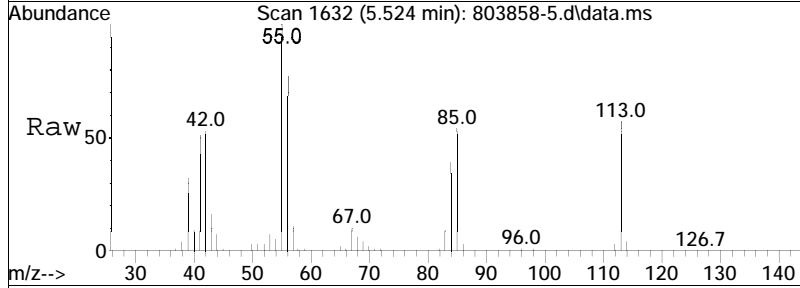
Tgt Ion	Resp	Lower	Upper
165	104627		
89	60.0	50.4	75.6
63	91.7	56.9	85.3#

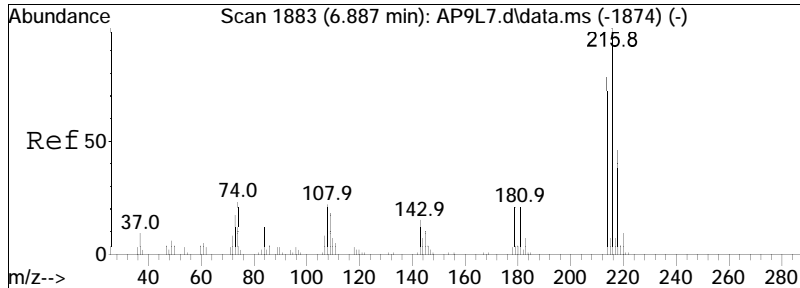




#60
 Caprolactam
 Concen: 31.50 ug/ml
 RT: 5.524 min Scan# 1632
 Delta R.T. 0.006 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

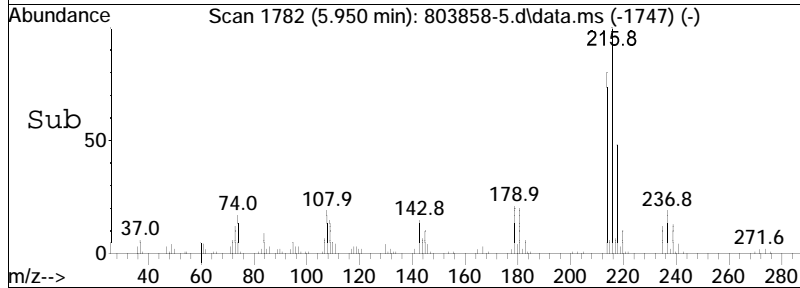
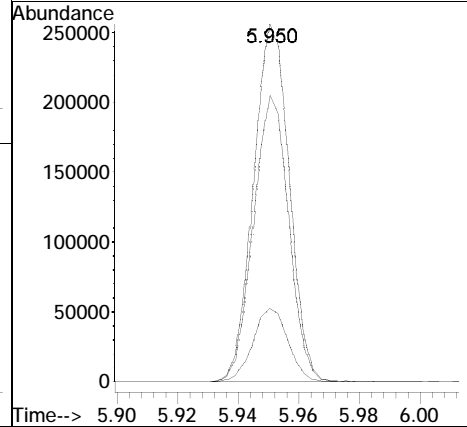
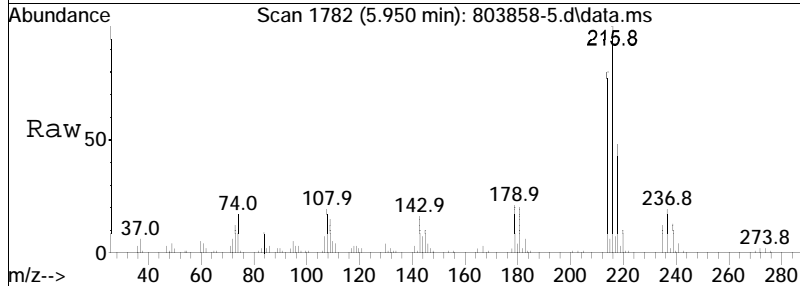
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
55	100		
85	53.6	32.6	48.8#
113	56.9	44.6	66.8

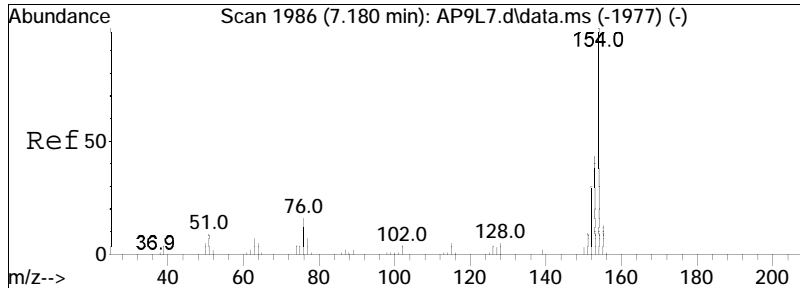




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 33.79 ug/ml
 RT: 5.950 min Scan# 1782
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

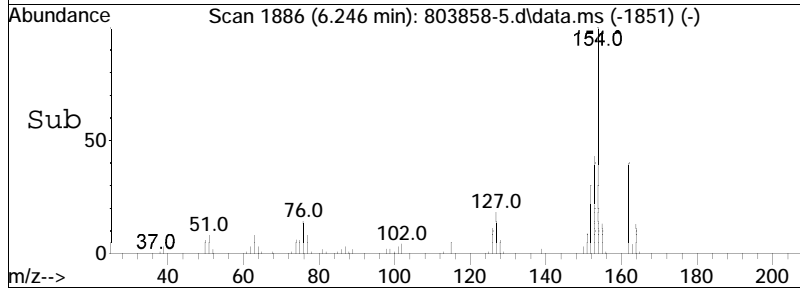
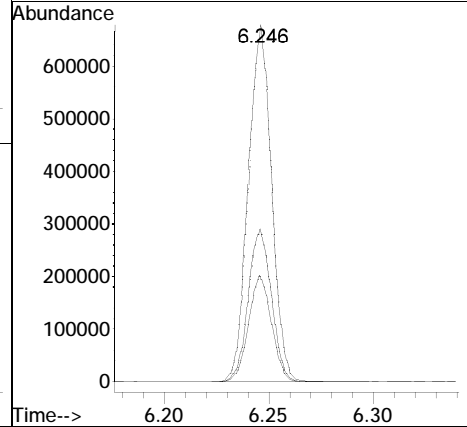
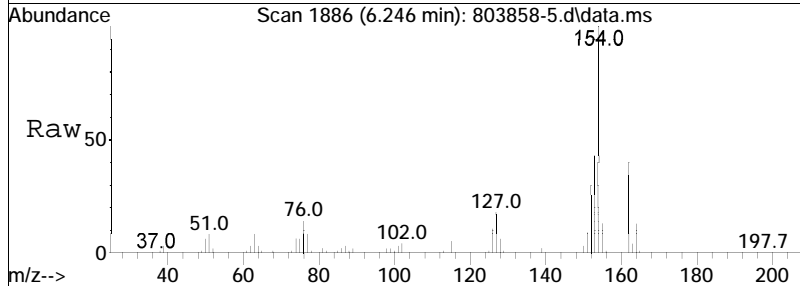
Tgt Ion	Ratio	Lower	Upper
216	100		
214	79.0	63.0	94.6
179	20.4	17.4	26.2

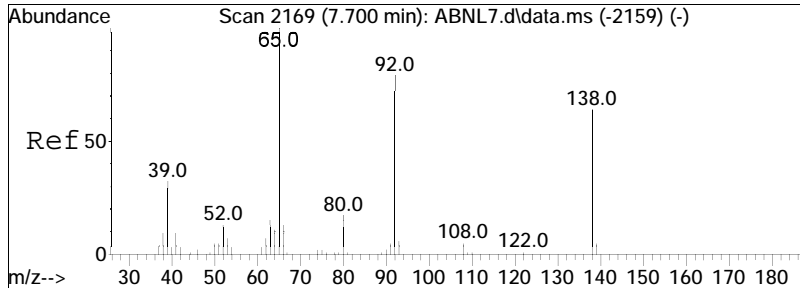




#62
 Biphenyl
 Concen: 30.94 ug/ml
 RT: 6.246 min Scan# 1886
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

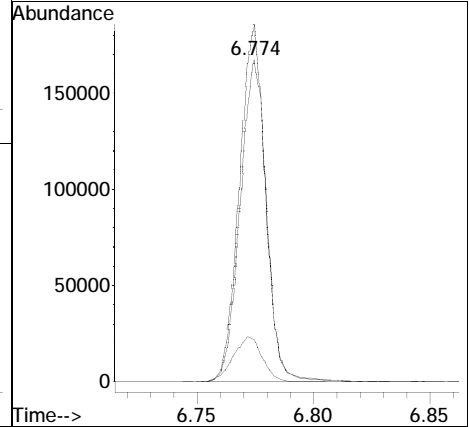
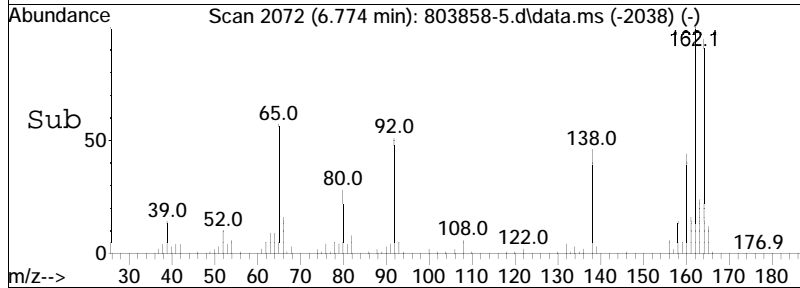
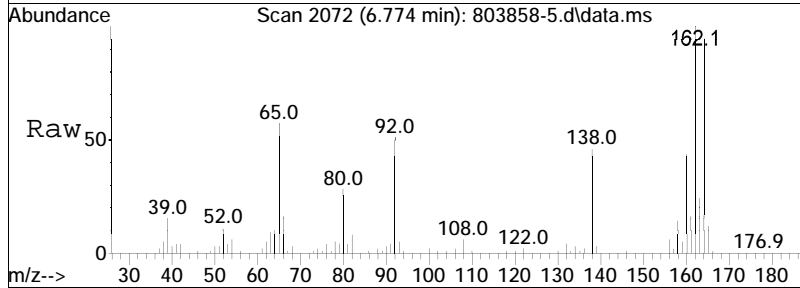
Tgt Ion	Ratio	Lower	Upper
154	100		
153	43.0	33.5	50.3
152	29.7	22.6	34.0

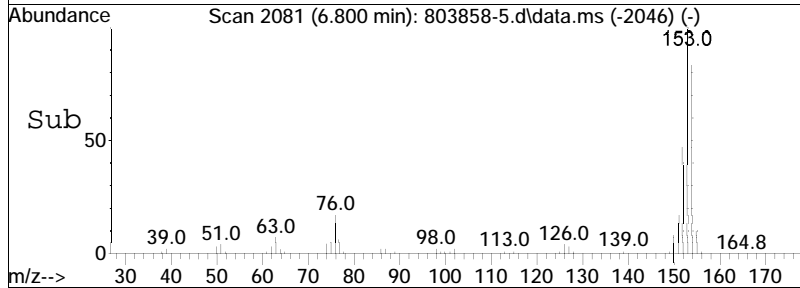
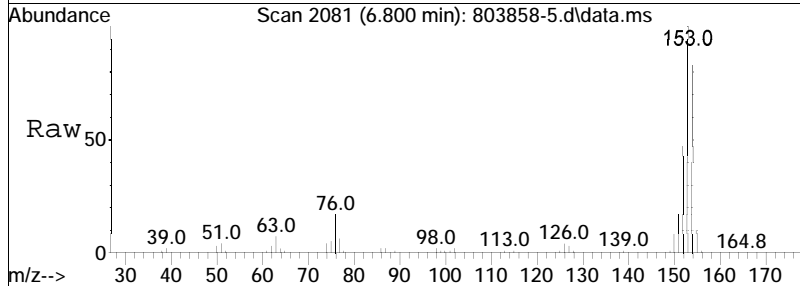
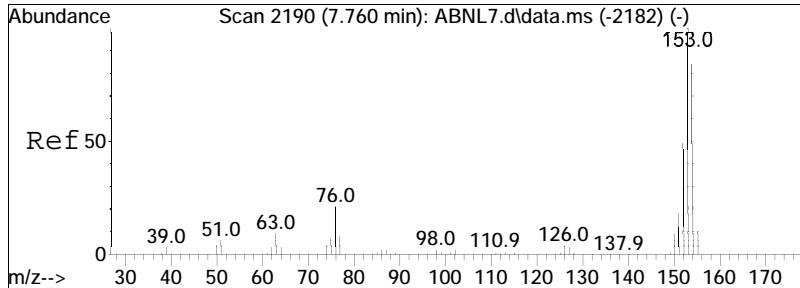




#64
 3-Nitroaniline
 Concen: 32.83 ug/ml
 RT: 6.774 min Scan# 2072
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

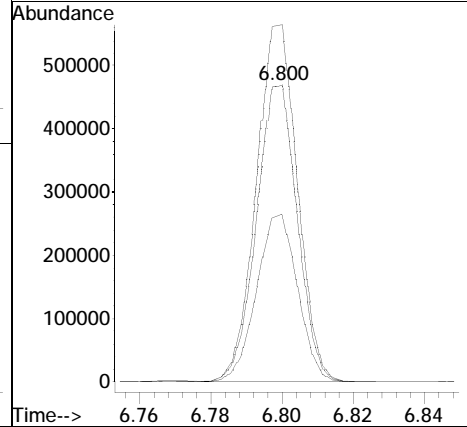
Tgt Ion	Resp	Lower	Upper
138	100		
92	110.4	95.4	143.2
108	15.8	8.6	12.8#

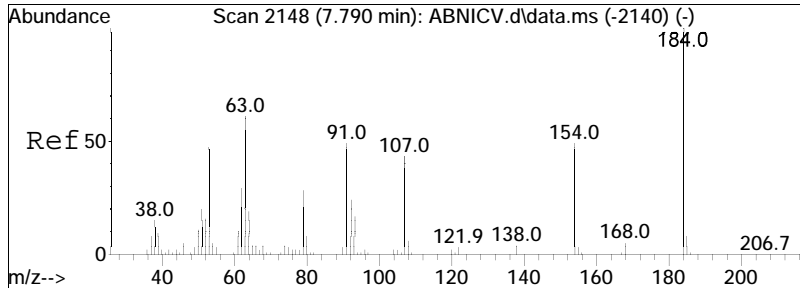




#65
 Acenaphthene
 Concen: 28.52 ug/ml
 RT: 6.800 min Scan# 2081
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

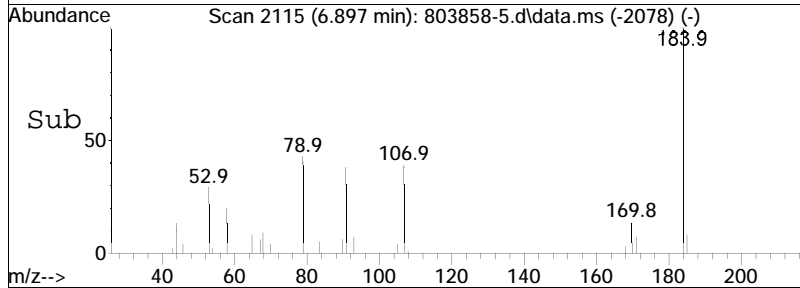
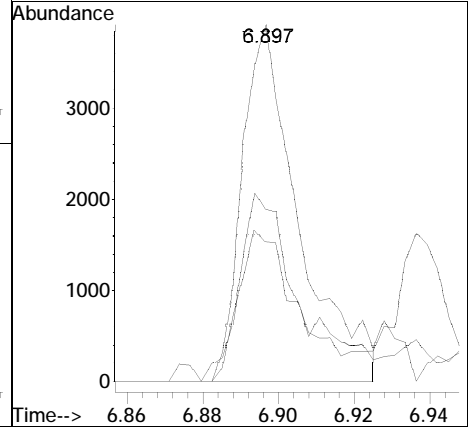
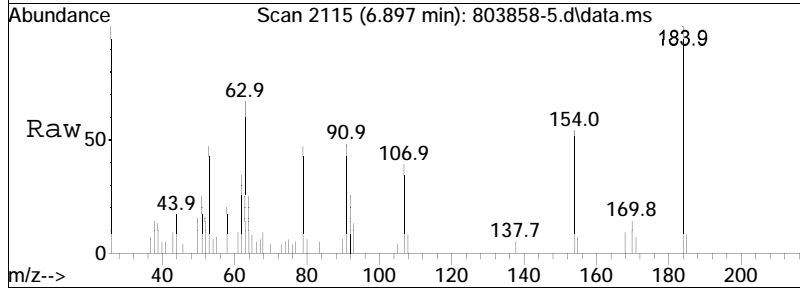
Tgt Ion	Resp	Lower	Upper
154	373129		
153	121.1	91.3	136.9
152	57.0	41.0	61.4

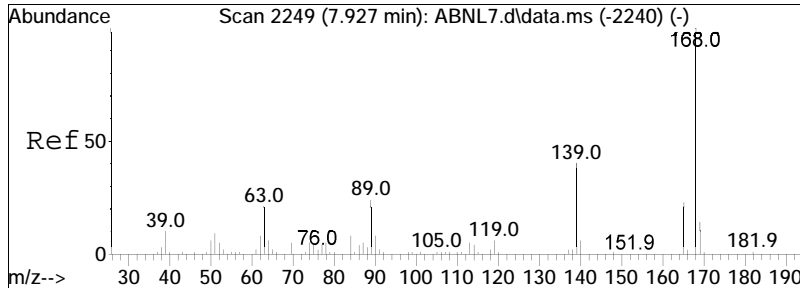




#66
 2,4-Dinitrophenol
 Concen: 5.75 ug/ml
 RT: 6.897 min Scan# 2115
 Delta R.T. 0.006 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

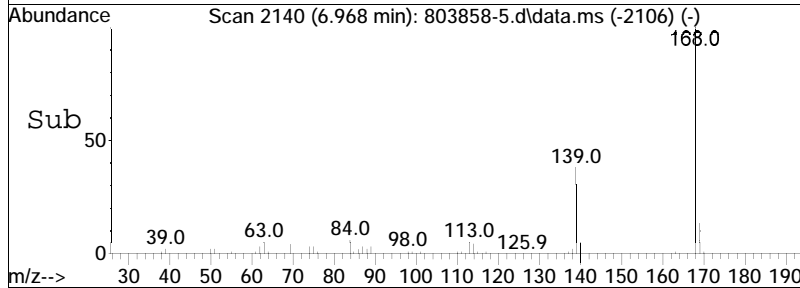
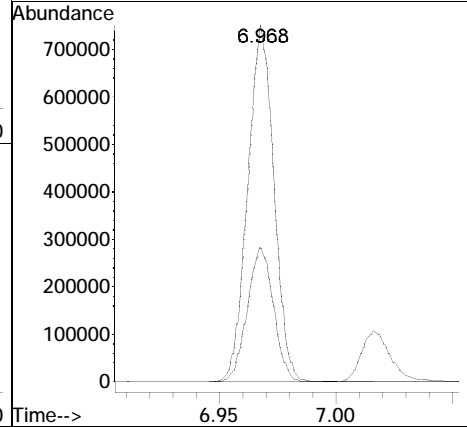
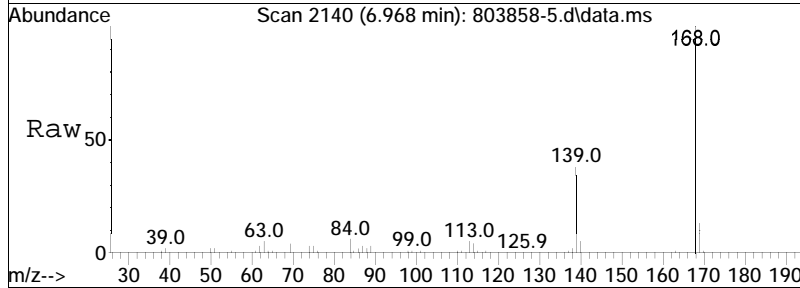
Tgt Ion	Ratio	Lower	Upper
184	100		
107	46.0	41.8	62.6
91	57.8	46.1	69.1

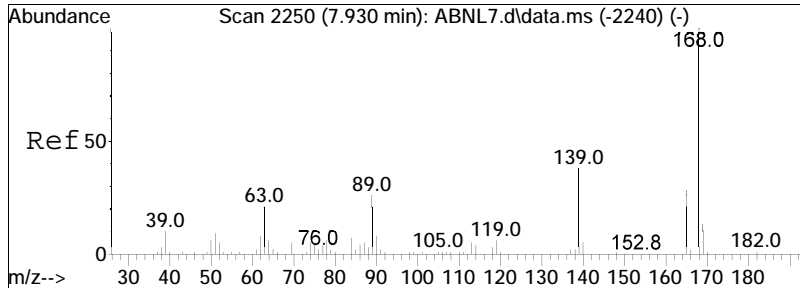




#67
 Dibenzofuran
 Concen: 28.77 ug/ml
 RT: 6.968 min Scan# 2140
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

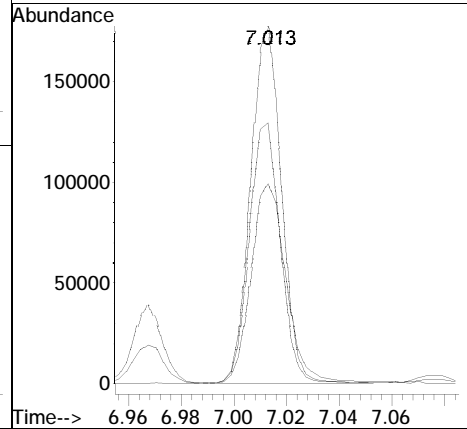
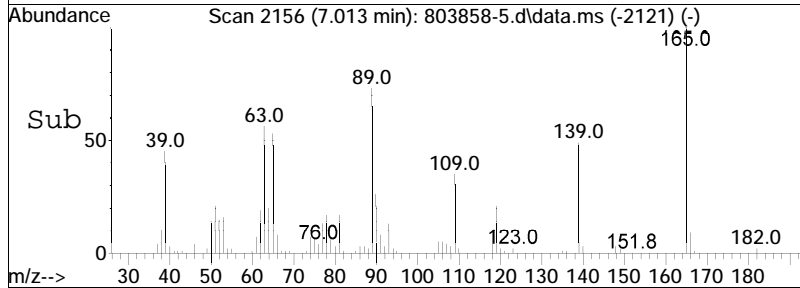
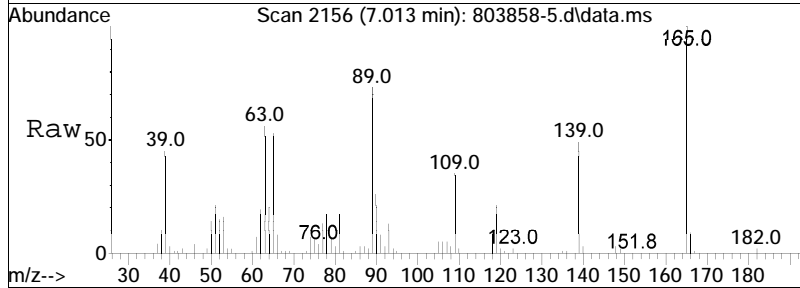
Tgt Ion	Resp	Lower	Upper
168	100		
139	37.9	33.2	49.8

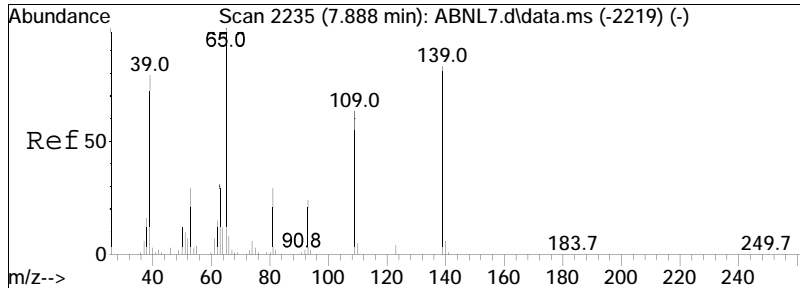




#68
 2,4-Dinitrotoluene
 Concen: 33.15 ug/ml
 RT: 7.013 min Scan# 2156
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

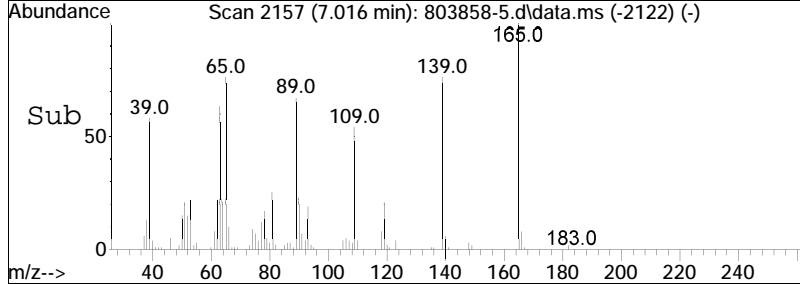
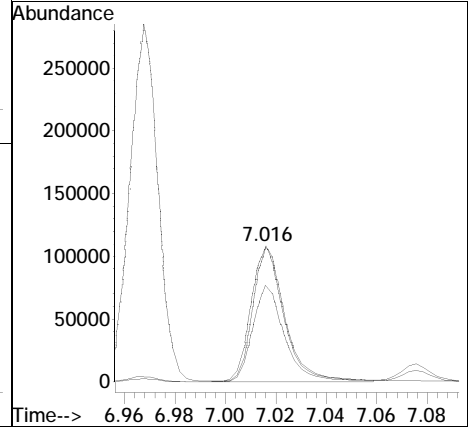
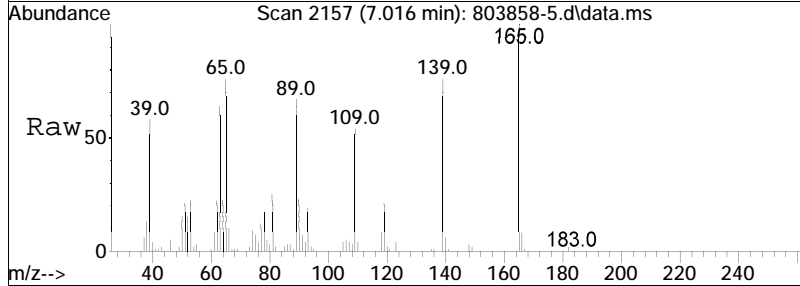
Tgt Ion	Resp	Lower	Upper
165	100		
89	73.5	75.7	113.5#
63	63.2	62.6	94.0

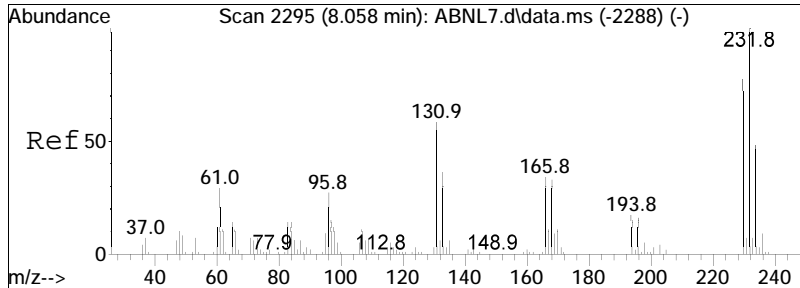




#69
 4-Nitrophenol
 Concen: 37.89 ug/ml
 RT: 7.016 min Scan# 2157
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

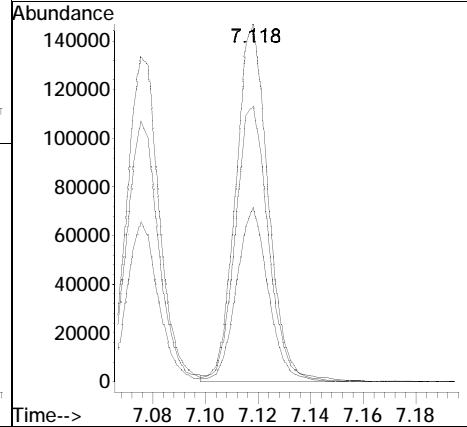
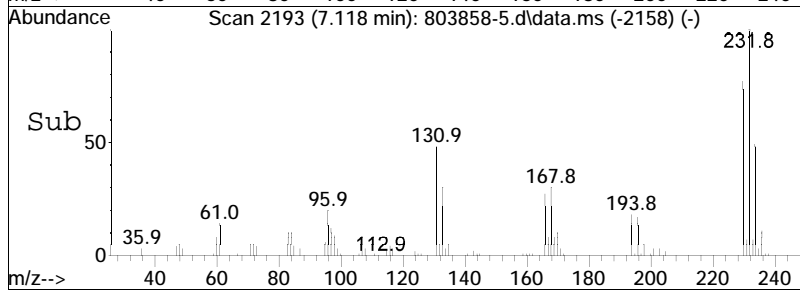
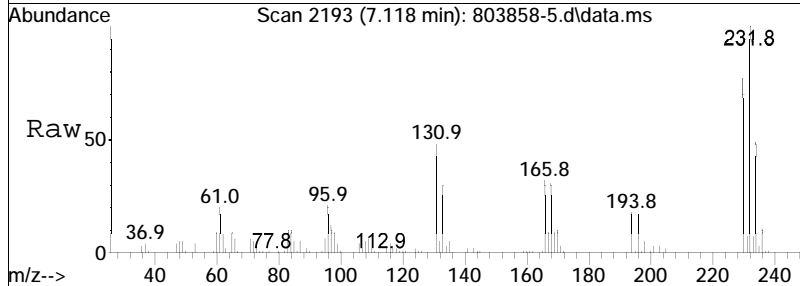
Tgt Ion:	65	Resp:	97796
Ion Ratio	Lower	Upper	
65	100		
109	68.8	55.4	83.2
139	97.3	72.9	109.3

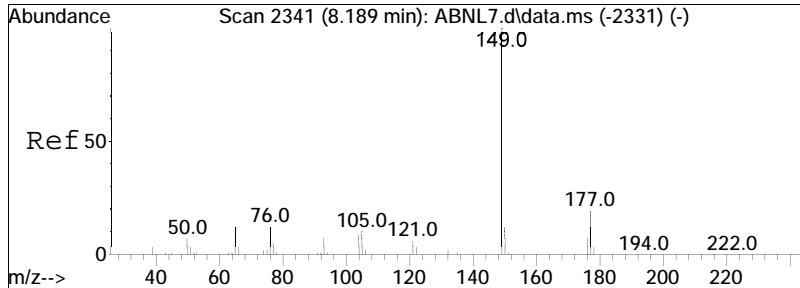




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 34.52 ug/ml
 RT: 7.118 min Scan# 2193
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

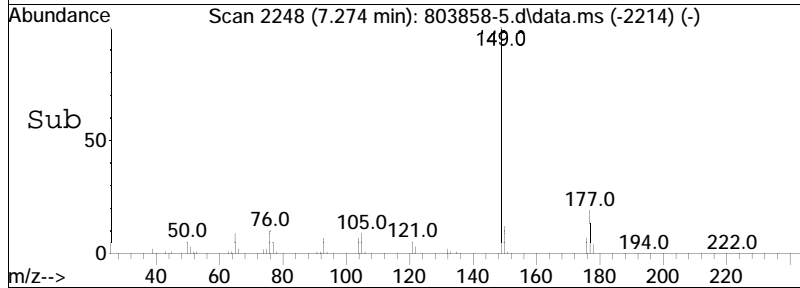
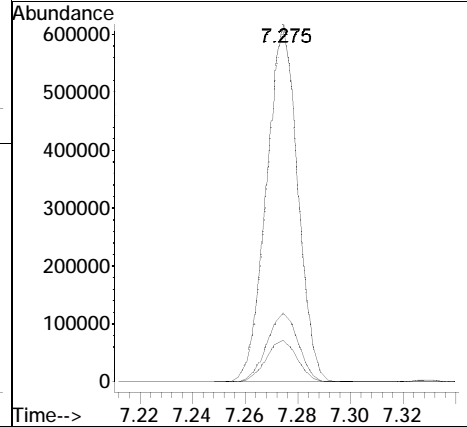
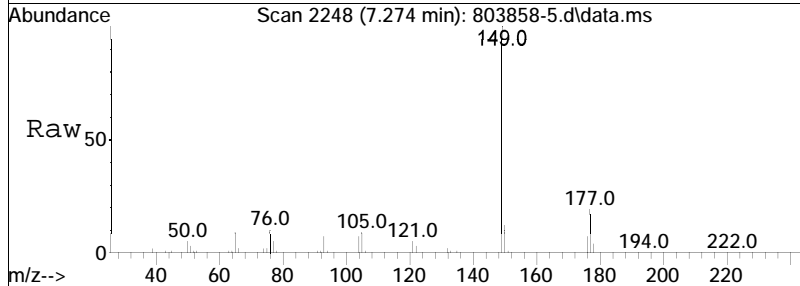
Tgt Ion	Resp	Lower	Upper
232	100		
230	77.2	63.7	95.5
234	47.9	38.4	57.6

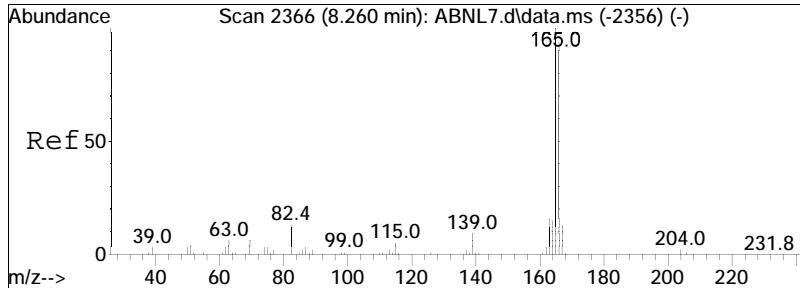




#72
 Diethyl phthalate
 Concen: 31.75 ug/ml
 RT: 7.274 min Scan# 2248
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

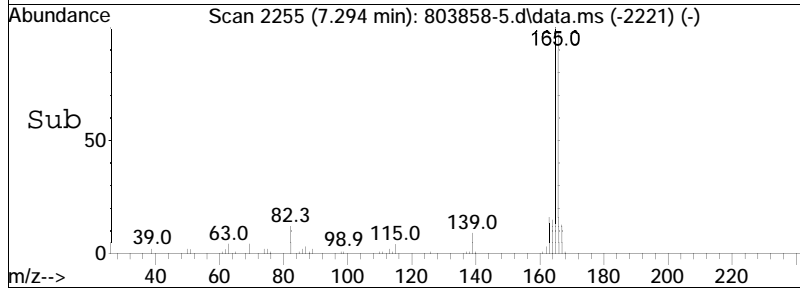
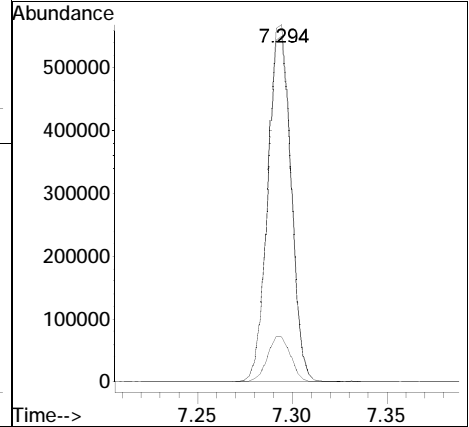
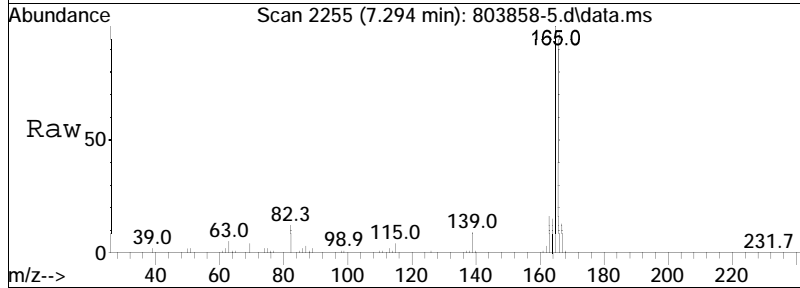
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.6	15.5	23.3
150	12.1	9.5	14.3

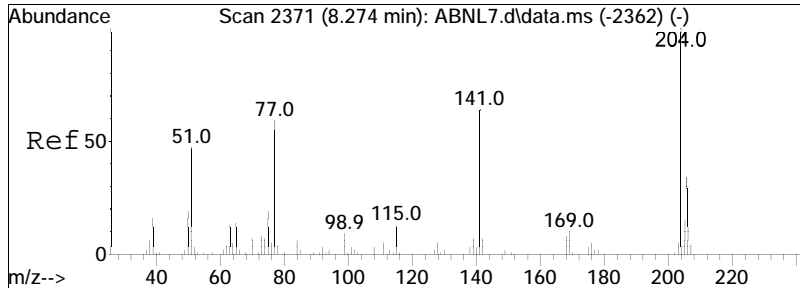




#73
 Fluorene
 Concen: 29.99 ug/ml
 RT: 7.294 min Scan# 2255
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

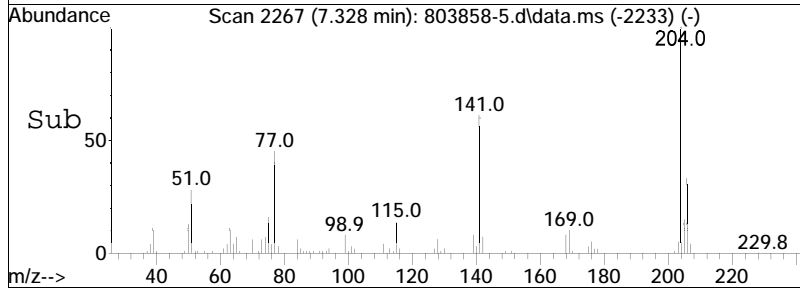
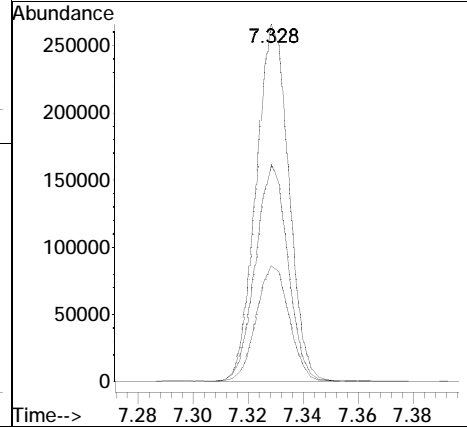
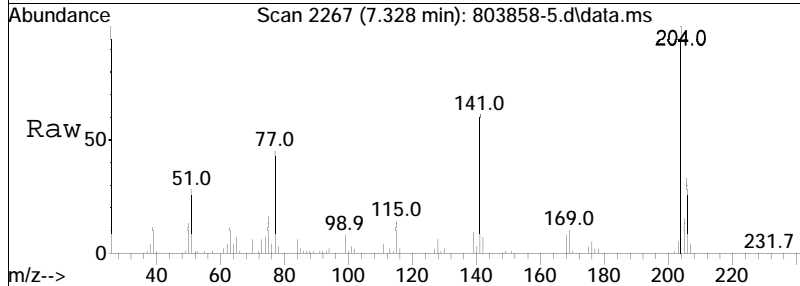
Tgt Ion	Resp	Lower	Upper
166	471672		
166	100		
165	103.4	79.3	118.9
167	13.2	10.6	16.0

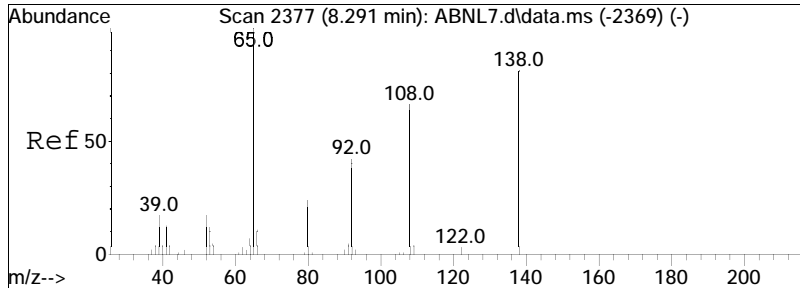




#74
 4-Chlorophenyl phenyl ether
 Concen: 29.33 ug/ml
 RT: 7.328 min Scan# 2267
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

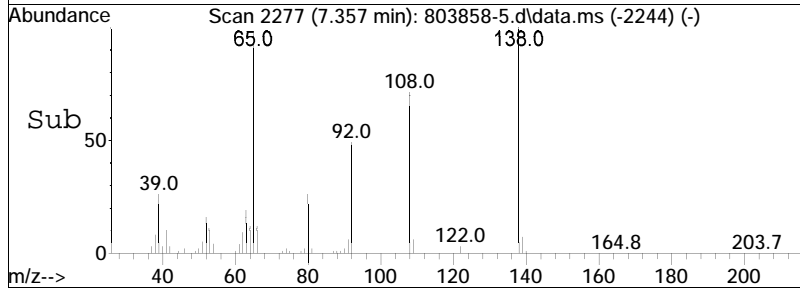
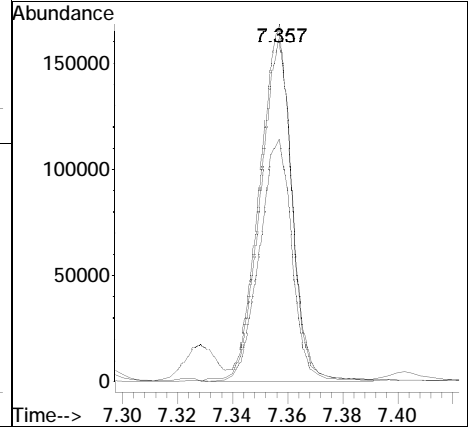
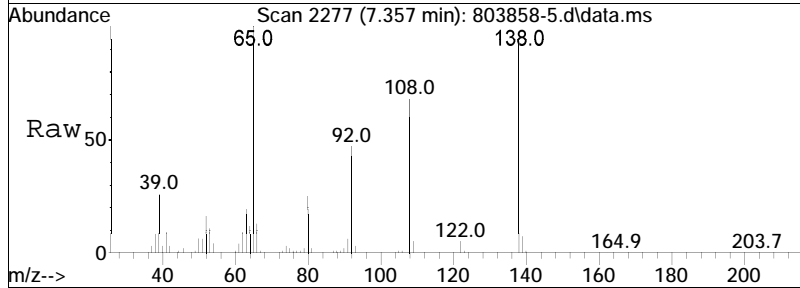
Tgt Ion	Resp	Lower	Upper
204	217972		
206	32.8	26.2	39.4
141	60.1	57.2	85.8

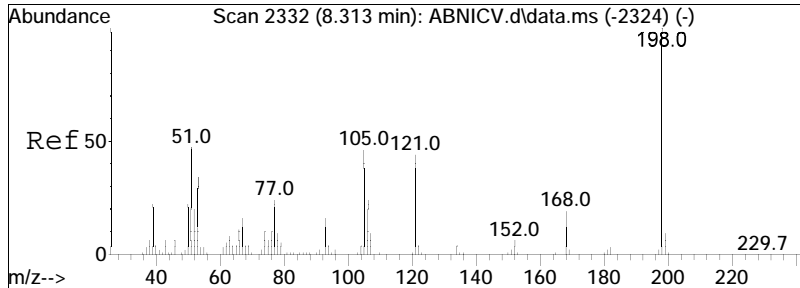




#75
 4-Nitroaniline
 Concen: 32.22 ug/ml
 RT: 7.357 min Scan# 2277
 Delta R.T. -0.006 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

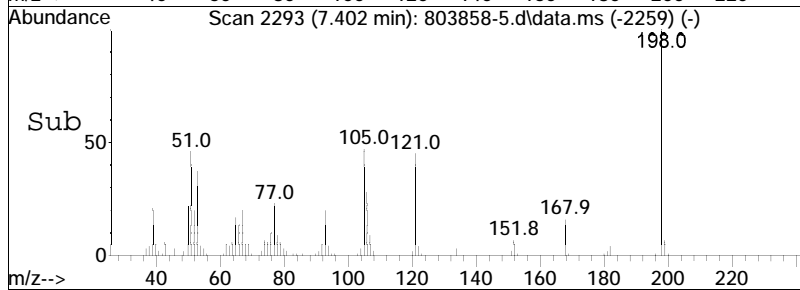
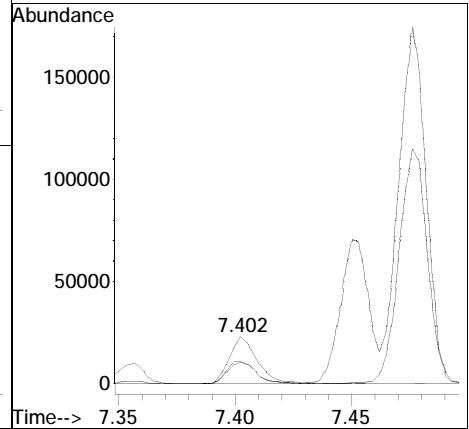
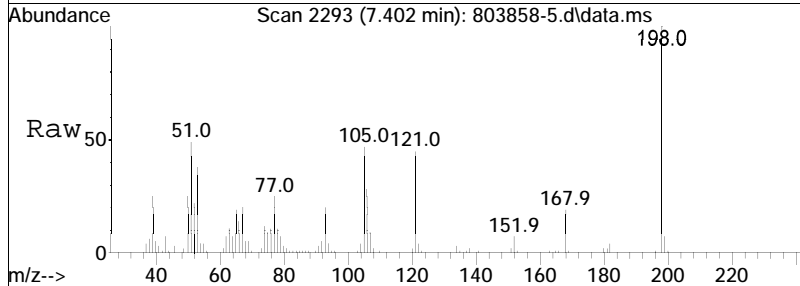
Tgt Ion	Resp	Lower	Upper
138	129734		
138	100		
108	71.8	62.7	94.1
65	102.7	107.8	161.6#

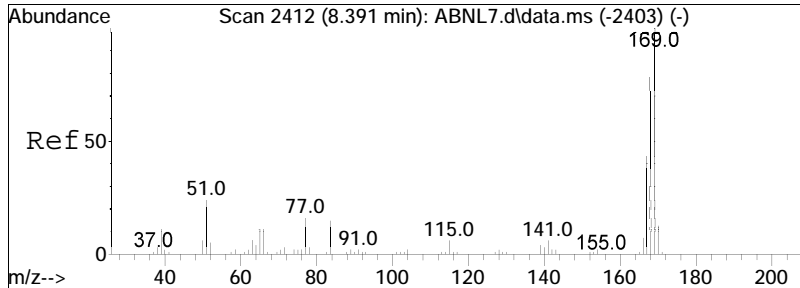




#76
 4,6-Dinitro-o-cresol
 Concen: 10.79 ug/ml
 RT: 7.402 min Scan# 2293
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

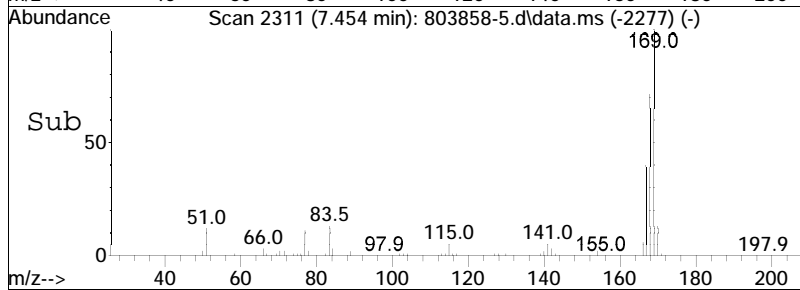
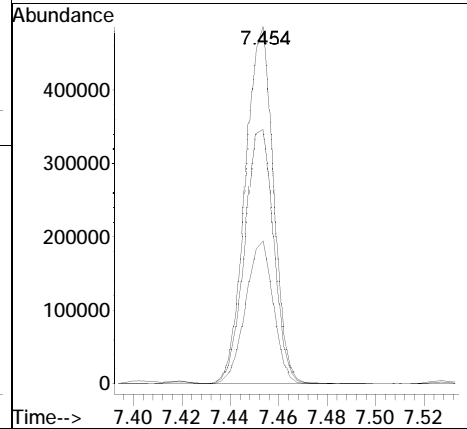
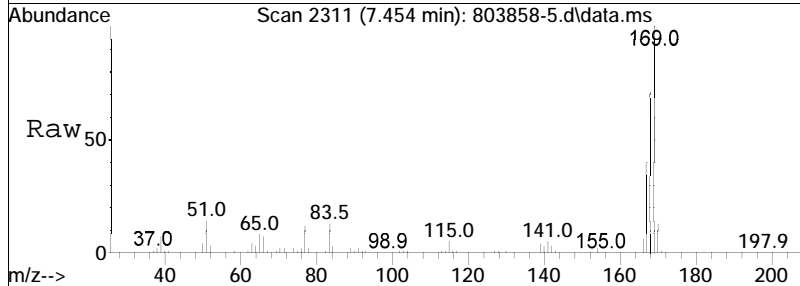
Tgt Ion	Ratio	Lower	Upper
198	100		
51	50.2	59.0	88.4#
105	49.3	45.0	67.6

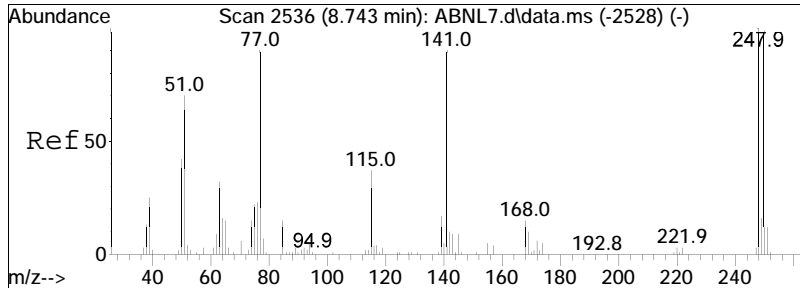




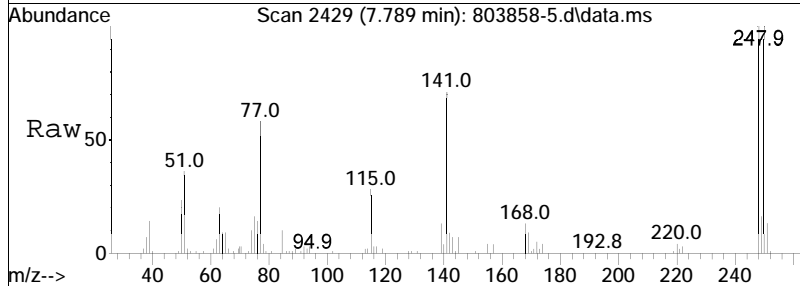
#77
 NDPA/DPA
 Concen: 29.20 ug/ml
 RT: 7.454 min Scan# 2311
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

Tgt Ion	Resp	Lower	Upper
169	392587		
168	73.5	55.4	83.0
167	39.7	30.3	45.5

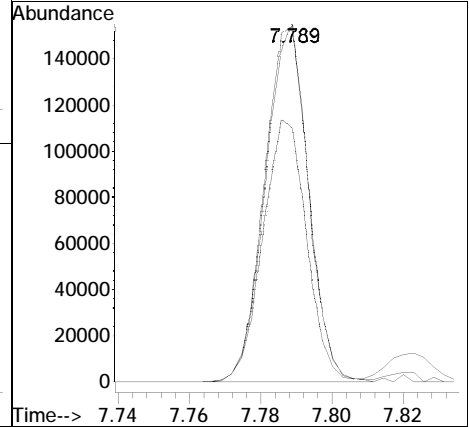
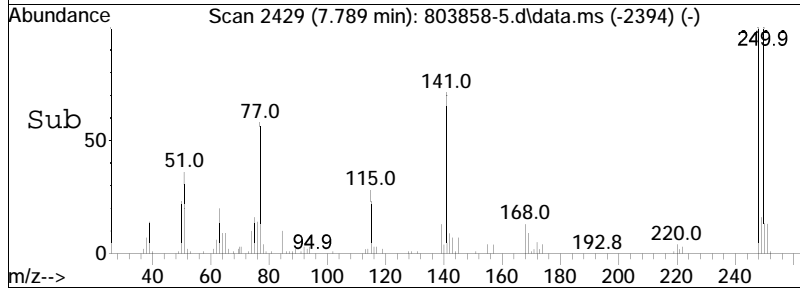


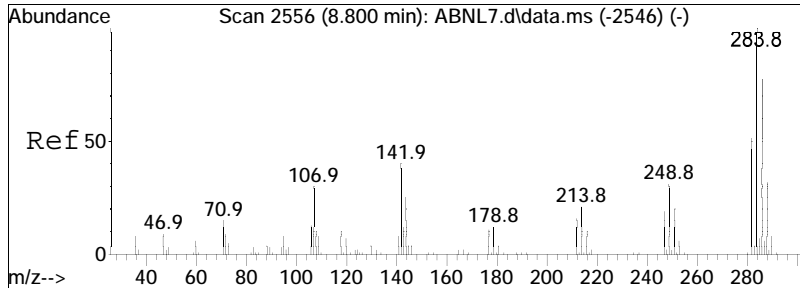


#80
 4-Bromophenyl phenyl ether
 Concen: 29.75 ug/ml
 RT: 7.789 min Scan# 2429
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am



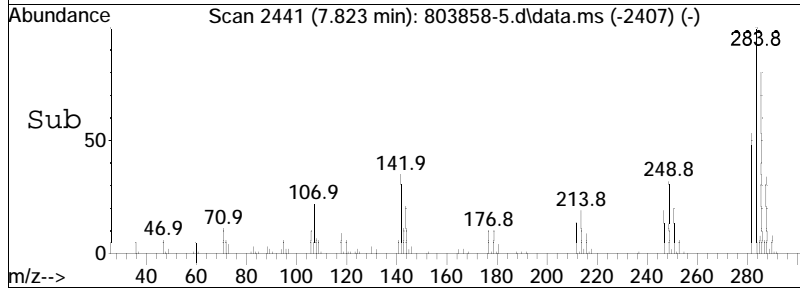
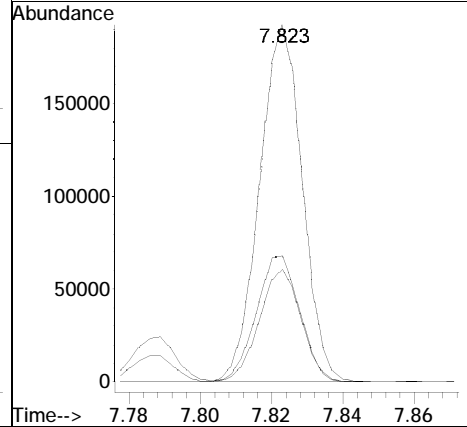
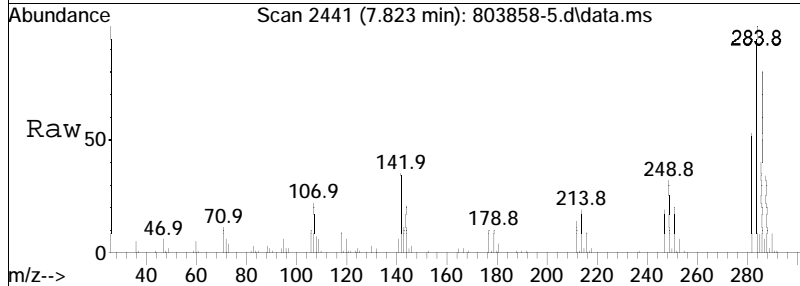
Tgt Ion	Resp	Lower	Upper
248	131446		
248	100		
141	73.2	76.8	115.2#
250	97.5	79.7	119.5

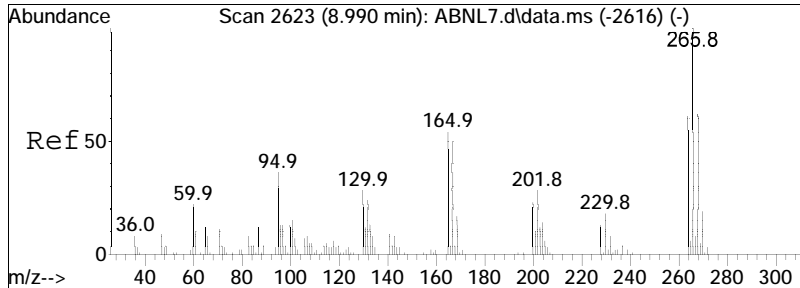




#81
 Hexachlorobenzene
 Concen: 29.60 ug/ml
 RT: 7.823 min Scan# 2441
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

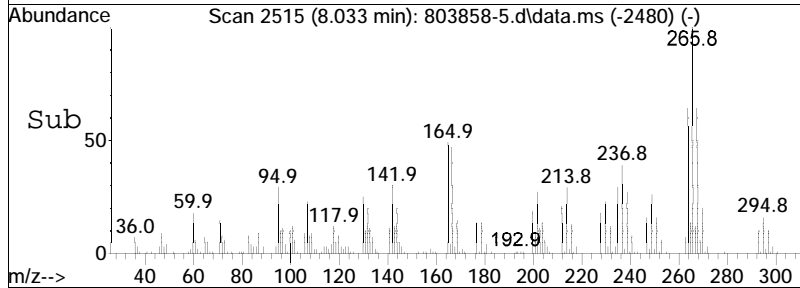
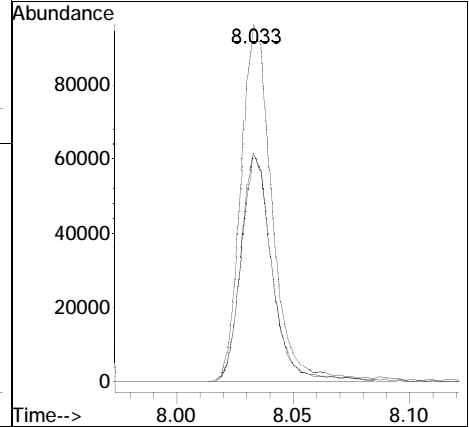
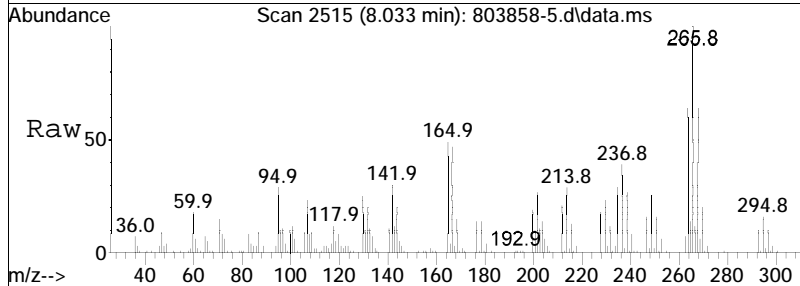
Tgt Ion	Resp	Lower	Upper
284	100		
142	36.2	35.8	53.6
249	31.1	24.7	37.1

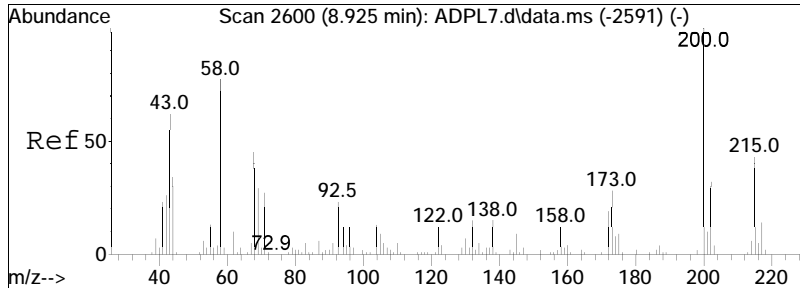




#82
 Pentachlorophenol
 Concen: 27.66 ug/ml
 RT: 8.033 min Scan# 2515
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

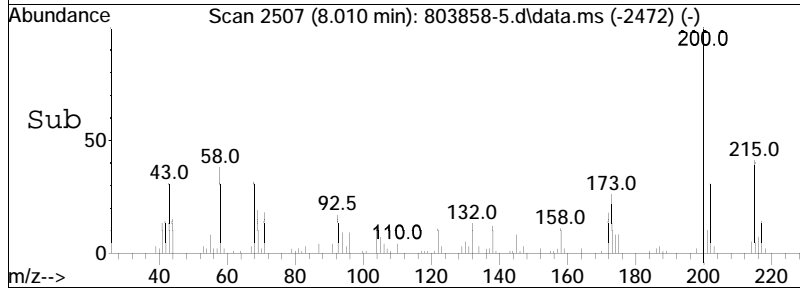
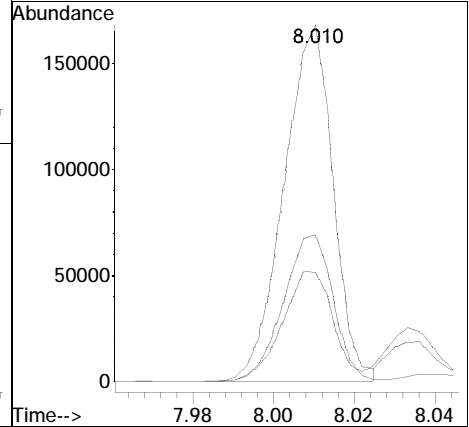
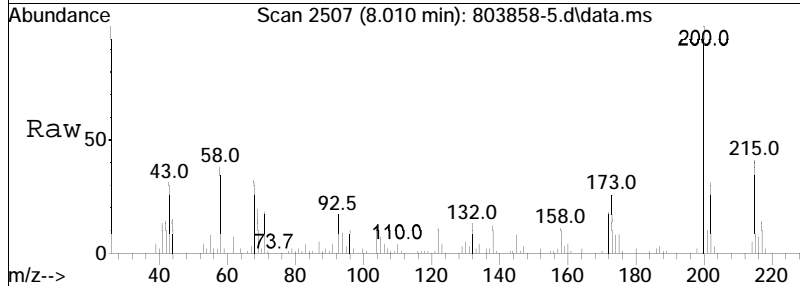
Tgt Ion	Resp	Lower	Upper
266	100		
264	64.2	51.8	77.6
268	63.2	49.8	74.8

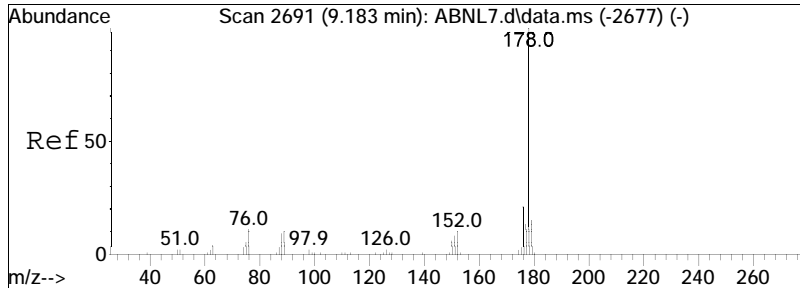




#87
 Atrazine
 Concen: 39.24 ug/ml
 RT: 8.010 min Scan# 2507
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

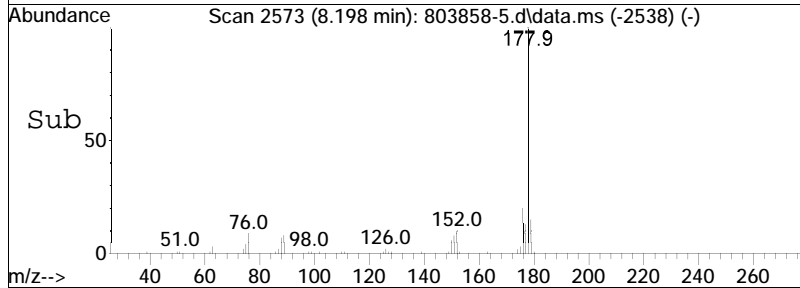
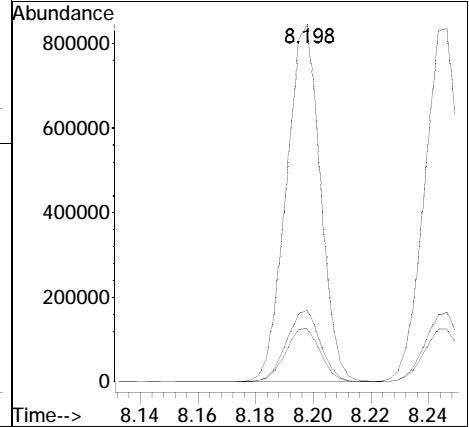
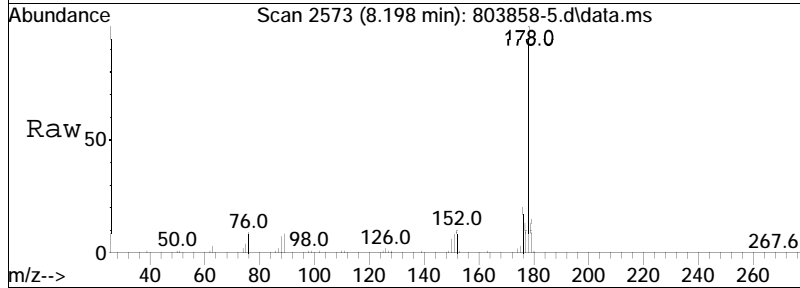
Tgt Ion	Ratio	Lower	Upper
200	100		
202	32.1	24.9	37.3
215	41.9	34.0	51.0

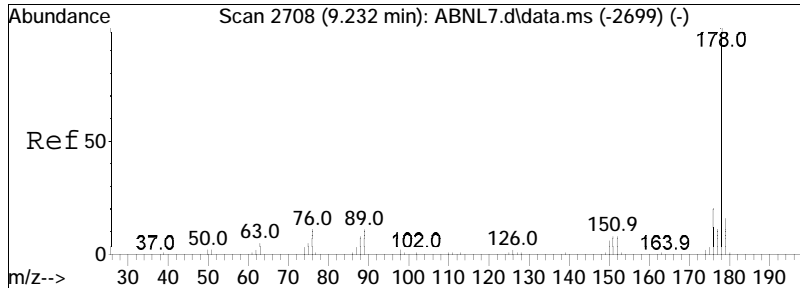




#89
 Phenanthrene
 Concen: 27.87 ug/ml
 RT: 8.198 min Scan# 2573
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

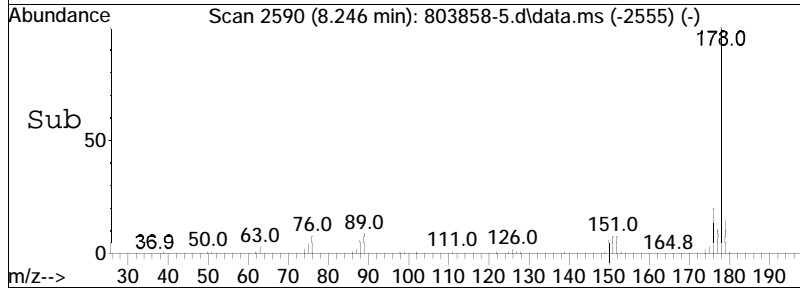
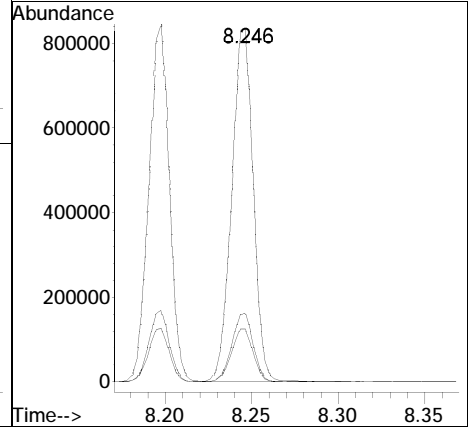
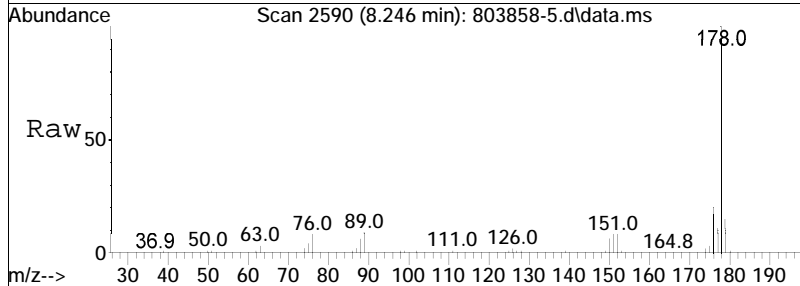
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.2
176	20.0	15.4	23.2

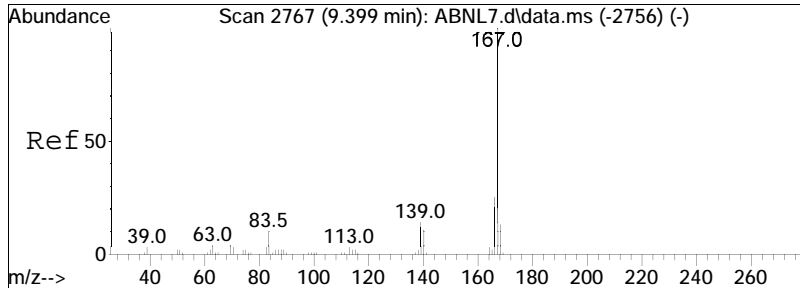




#90
 Anthracene
 Concen: 29.30 ug/ml
 RT: 8.246 min Scan# 2590
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

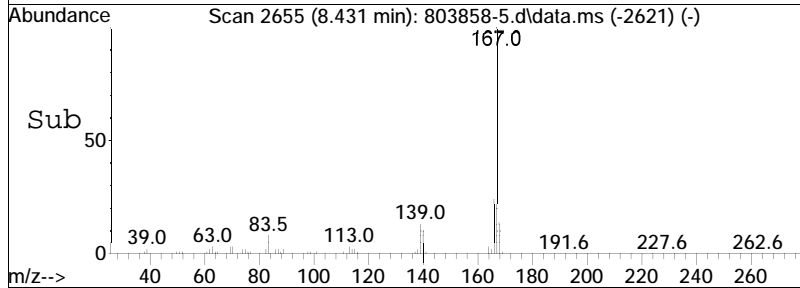
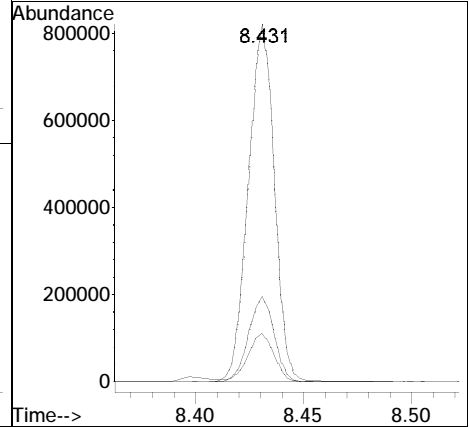
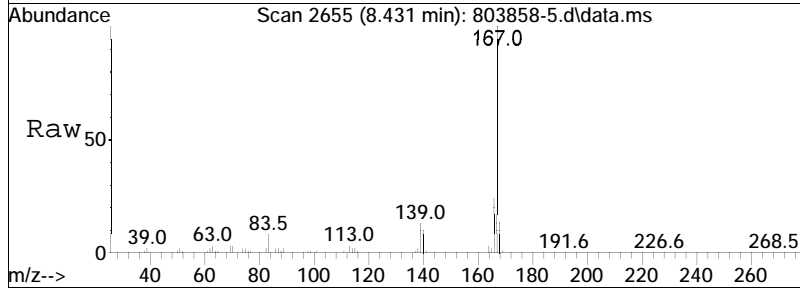
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.0	12.1	18.1
176	19.3	14.8	22.2

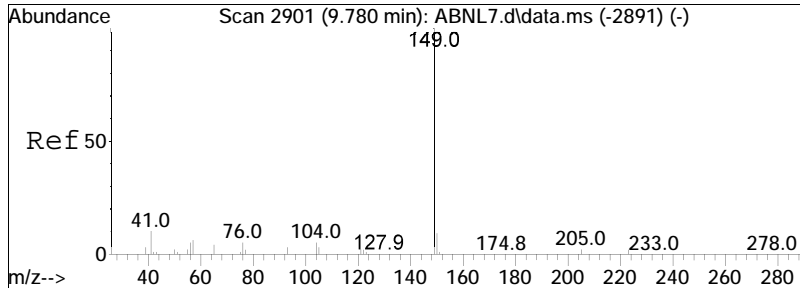




#91
 Carbazole
 Concen: 29.56 ug/ml
 RT: 8.431 min Scan# 2655
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

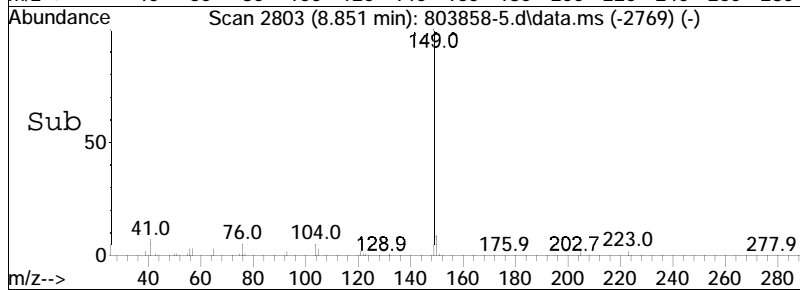
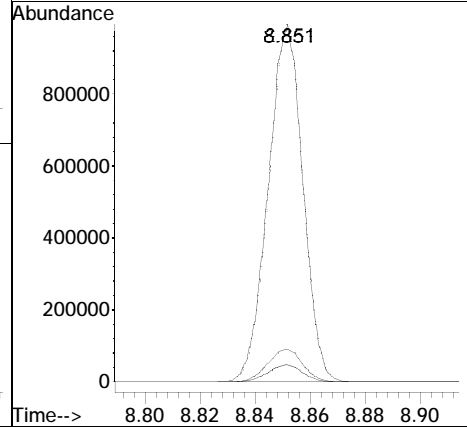
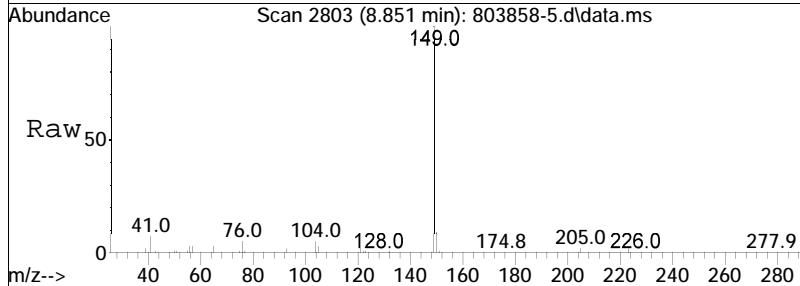
Tgt Ion	Resp	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	23.6	17.7	26.5

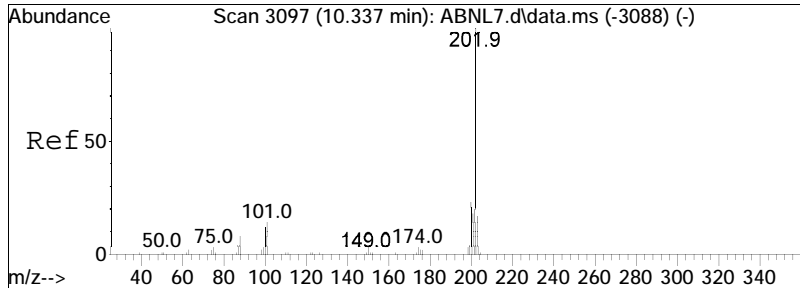




#92
 Di-n-butylphthalate
 Concen: 34.52 ug/ml
 RT: 8.851 min Scan# 2803
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

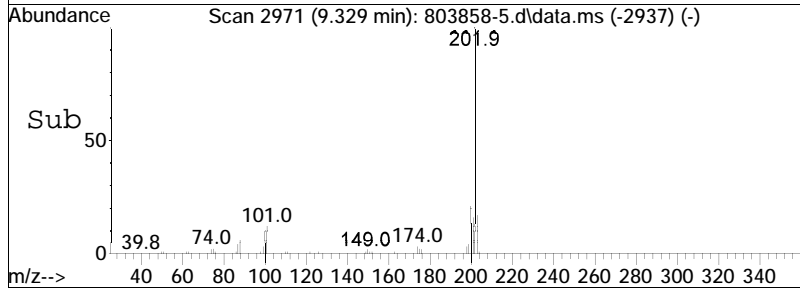
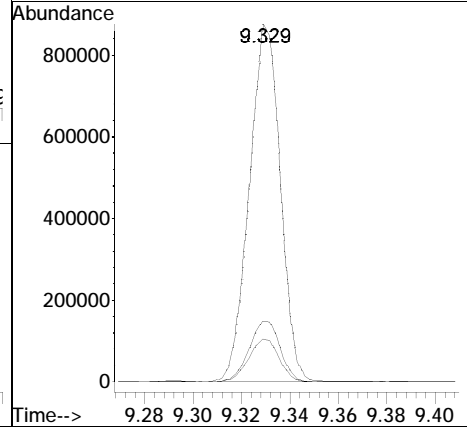
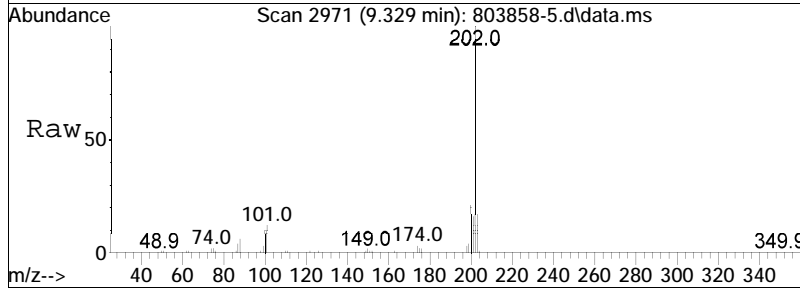
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	4.8	4.2	6.2

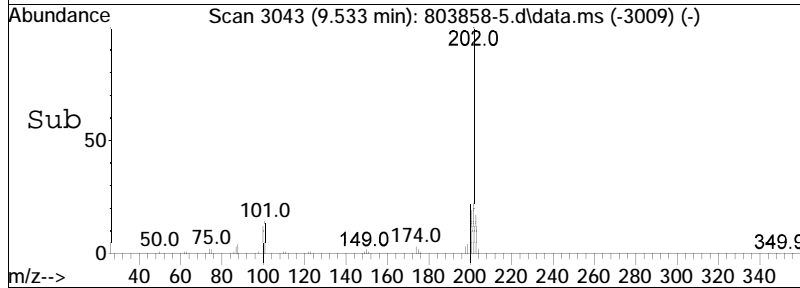
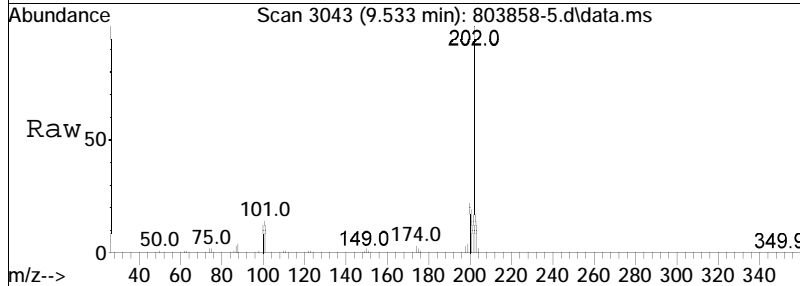
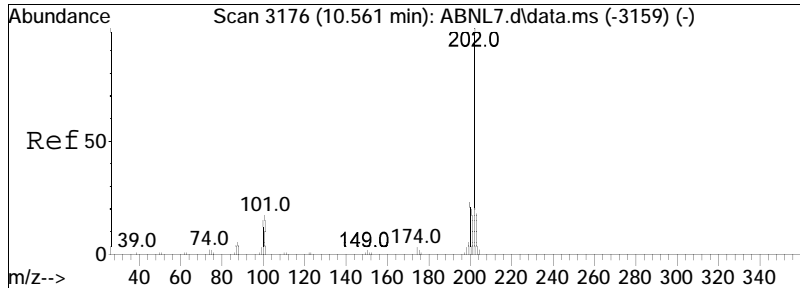




#93
 Fluoranthene
 Concen: 29.38 ug/ml
 RT: 9.329 min Scan# 2971
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

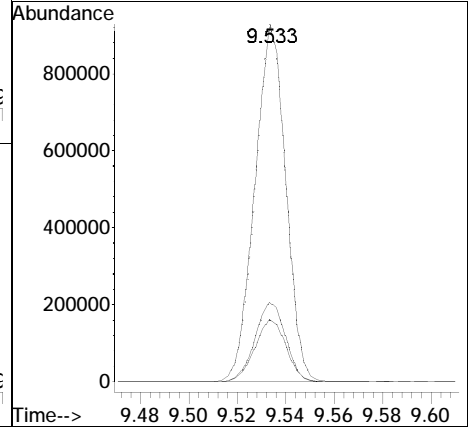
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	11.4	17.0
203	17.1	13.9	20.9

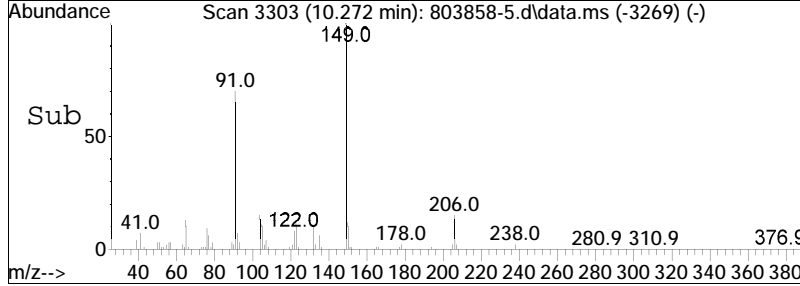
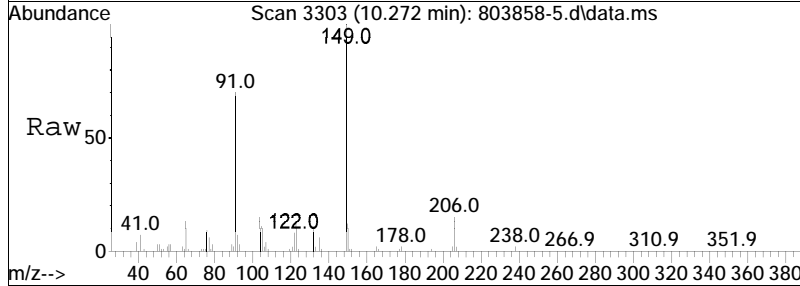
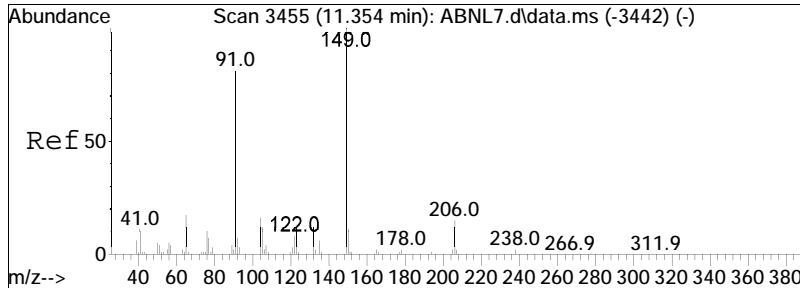




#95
 Pyrene
 Concen: 28.82 ug/ml
 RT: 9.533 min Scan# 3043
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

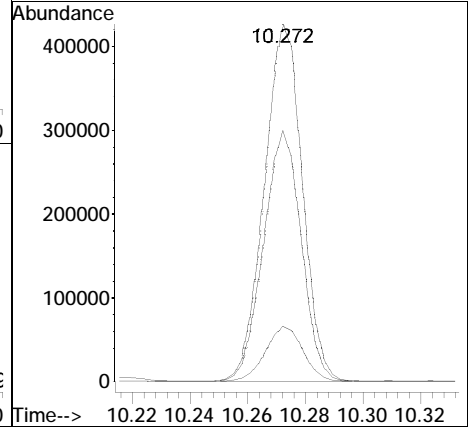
Tgt Ion	Resp	Lower	Upper
202	812274		
200	22.2	17.0	25.4
203	17.9	14.2	21.2

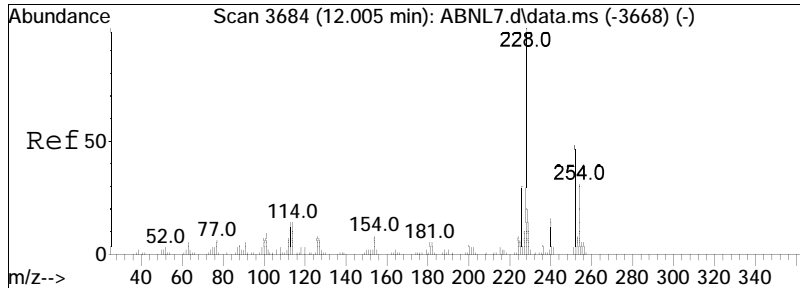




#97
 Butyl benzyl phthalate
 Concen: 32.09 ug/ml
 RT: 10.272 min Scan# 3303
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

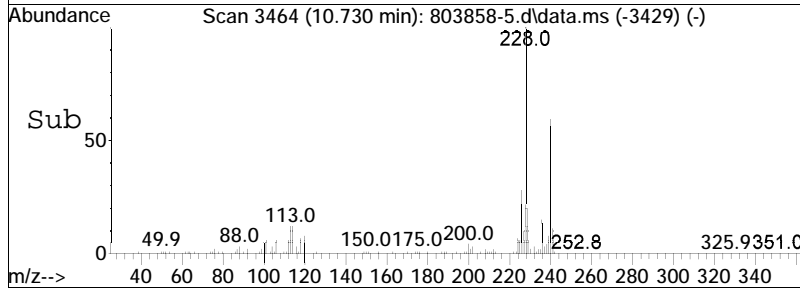
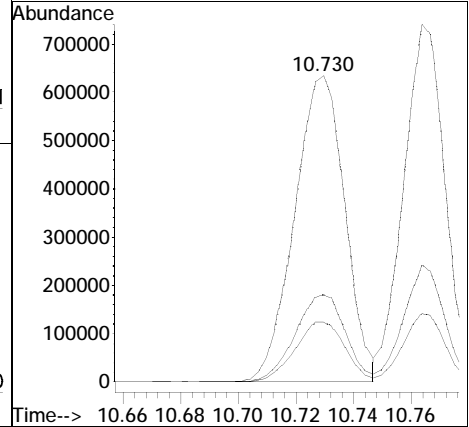
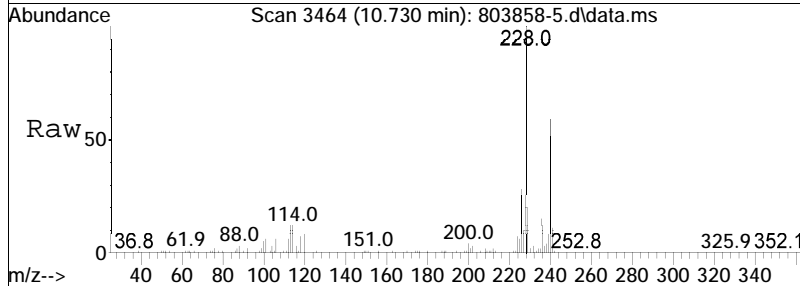
Tgt Ion	Resp	Lower	Upper
149	387006		
149	100		
91	69.8	61.2	91.8
206	15.4	12.5	18.7

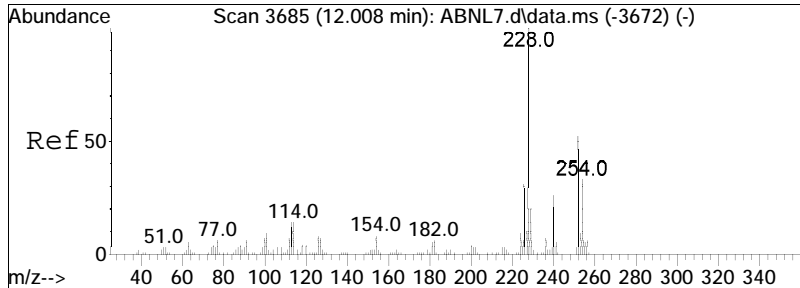




#105
 Benzo(a)anthracene
 Concen: 28.93 ug/ml
 RT: 10.730 min Scan# 3464
 Delta R.T. 0.000 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

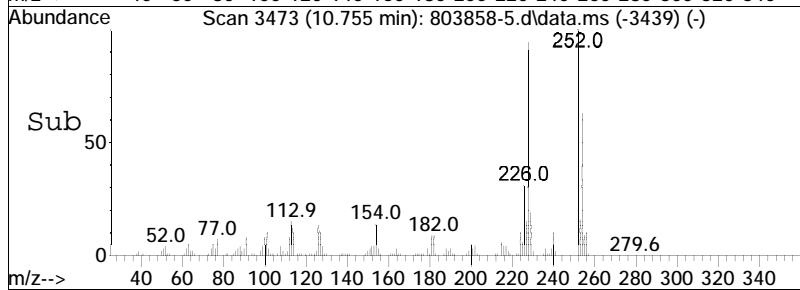
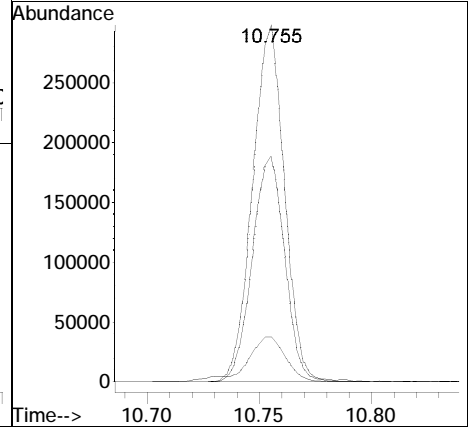
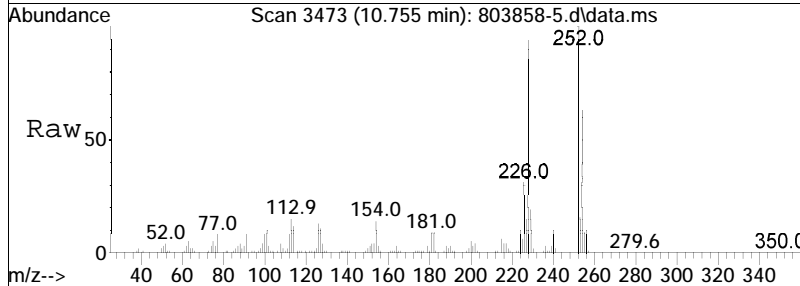
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.2	33.2
229	19.7	15.6	23.4

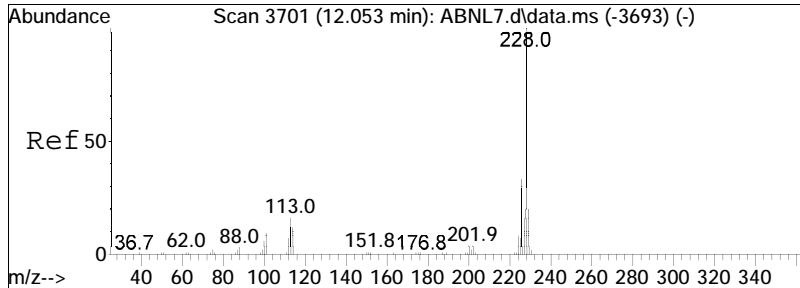




#106
 3,3'-Dichlorobenzidine
 Concen: 30.45 ug/ml
 RT: 10.755 min Scan# 3473
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

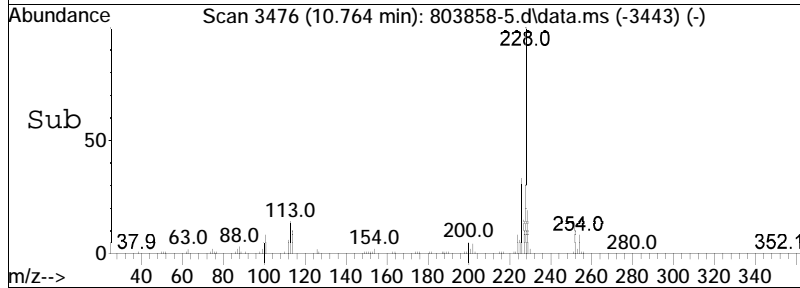
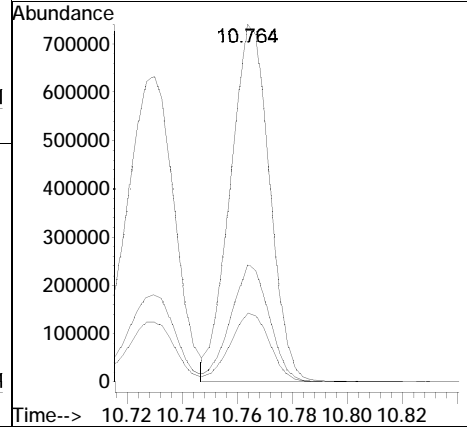
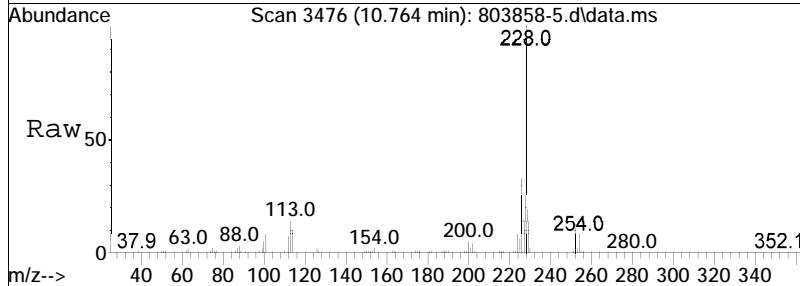
Tgt Ion	Ratio	Lower	Upper
252	100		
126	15.5	13.8	20.6
254	64.2	53.0	79.6

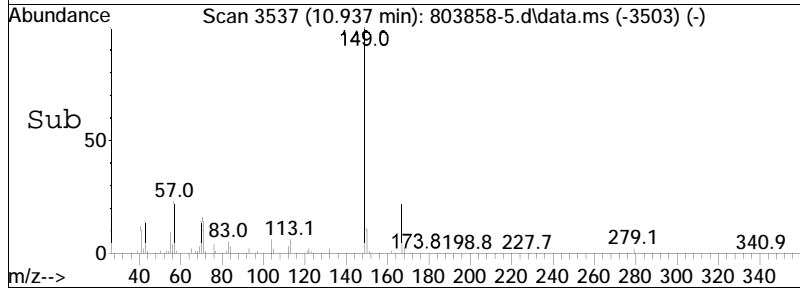
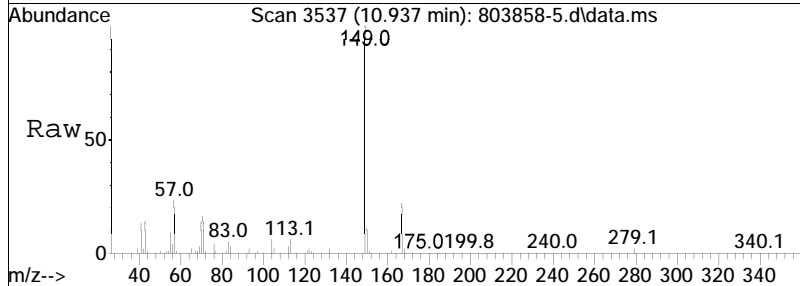
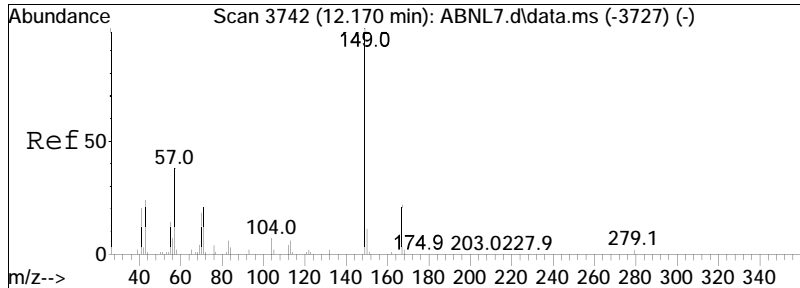




#107
 Chrysene
 Concen: 27.57 ug/ml
 RT: 10.764 min Scan# 3476
 Delta R.T. -0.006 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

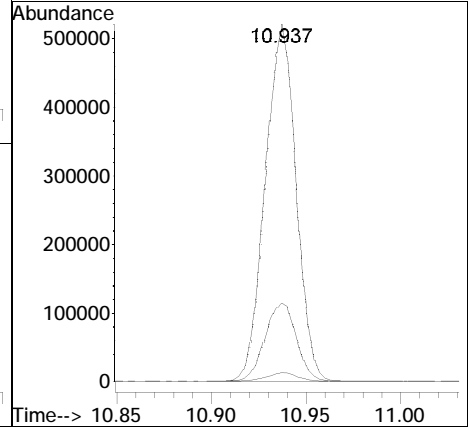
Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.0	24.6	37.0
229	19.4	15.8	23.6

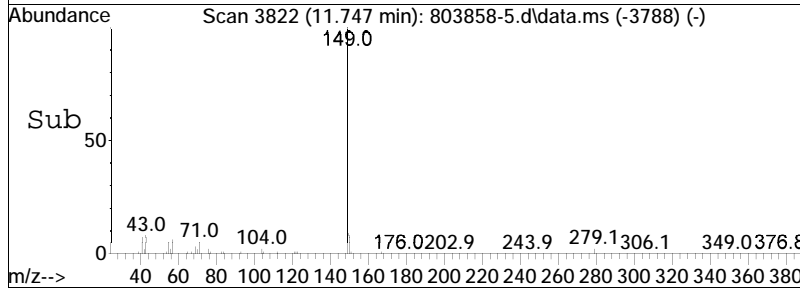
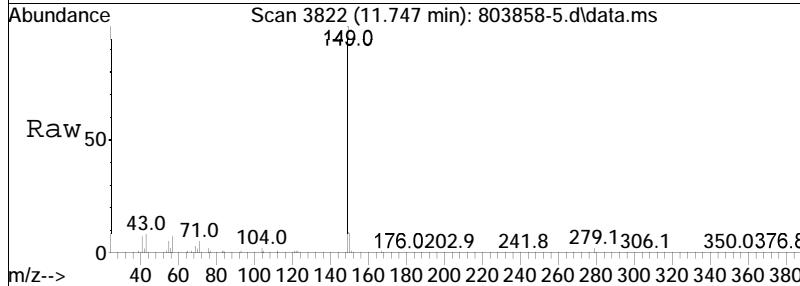
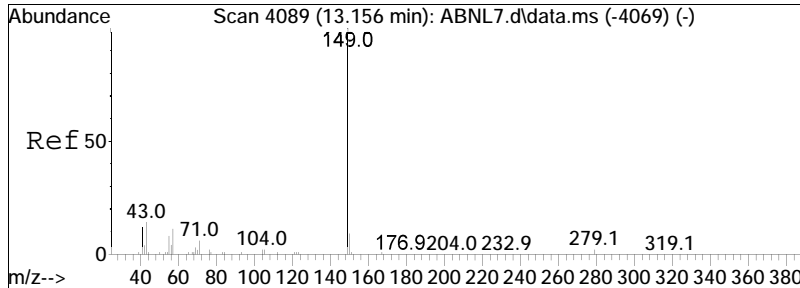




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 31.31 ug/ml
 RT: 10.937 min Scan# 3537
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

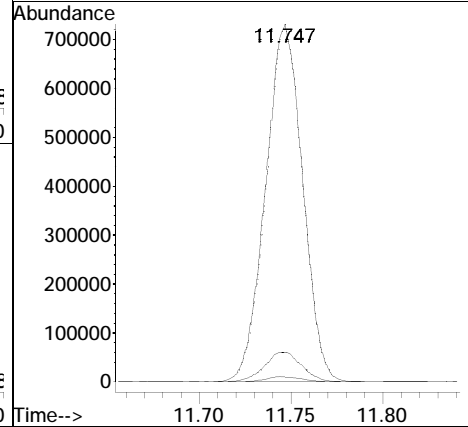
Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.7	19.4	29.0
279	2.4	2.3	3.5

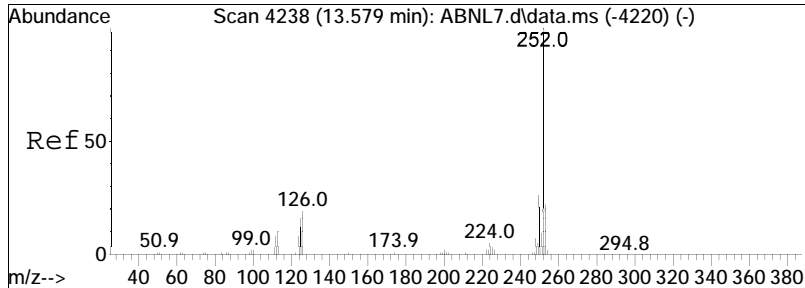




#109
 Di-n-octylphthalate
 Concen: 32.48 ug/ml
 RT: 11.747 min Scan# 3822
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

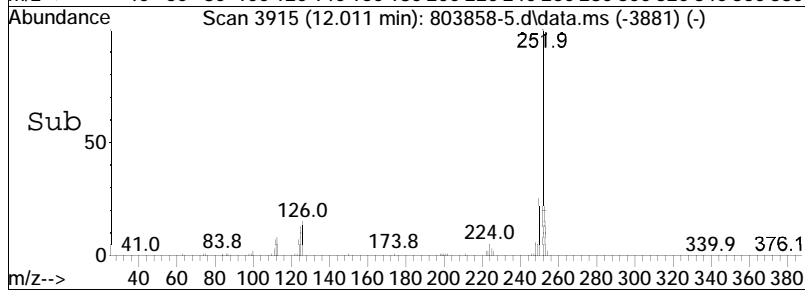
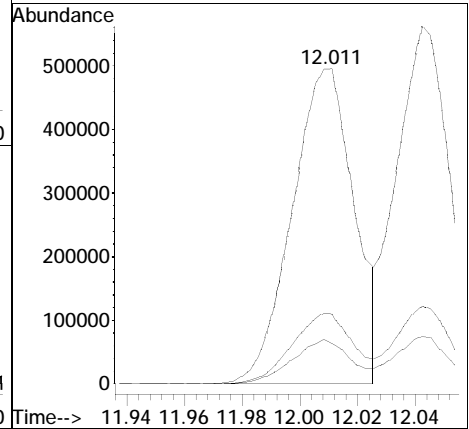
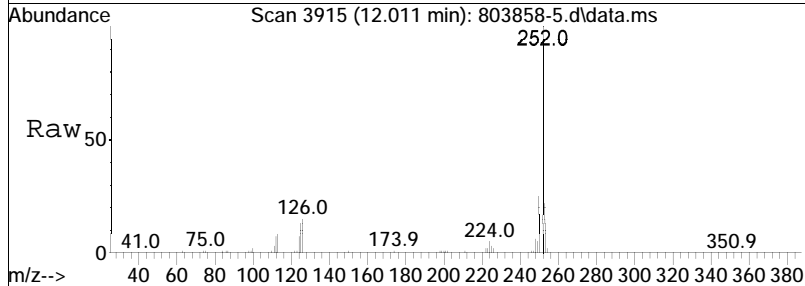
Tgt Ion	Ratio	Lower	Upper
149	100		
43	8.3	10.1	15.1#
167	1.3	1.1	1.7

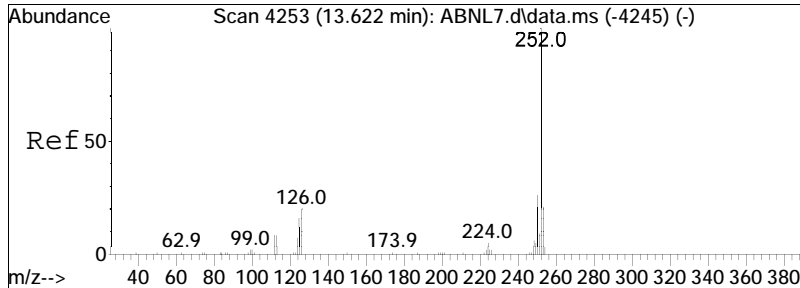




#110
 Benzo(b)fluoranthene
 Concen: 28.75 ug/ml
 RT: 12.011 min Scan# 3915
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

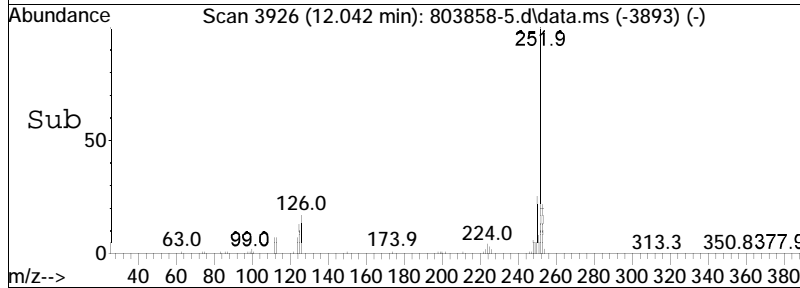
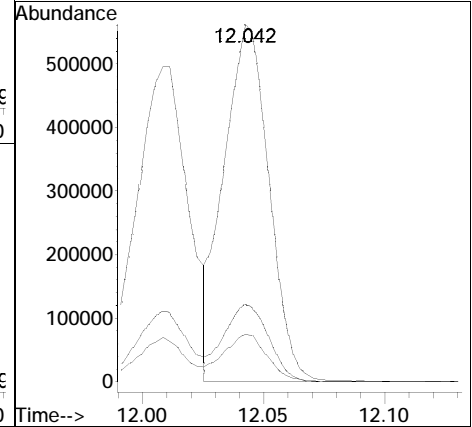
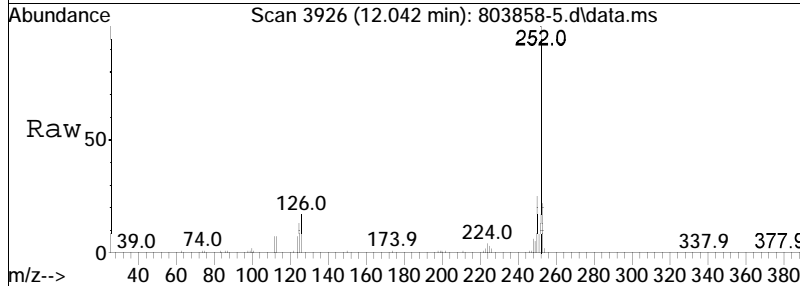
Tgt Ion	Ratio	Lower	Upper
252	100		
125	13.4	11.6	17.4
253	22.2	17.4	26.0

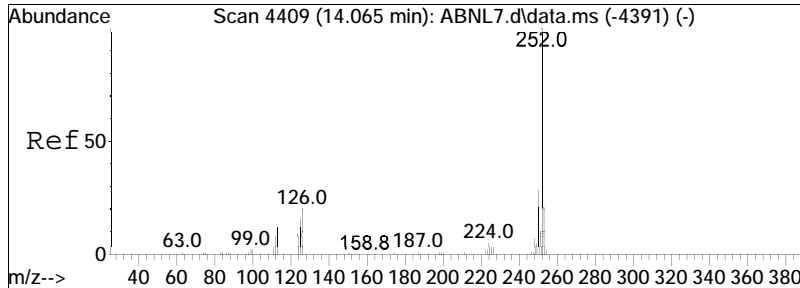




#111
 Benzo(k)fluoranthene
 Concen: 27.52 ug/ml
 RT: 12.042 min Scan# 3926
 Delta R.T. -0.006 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

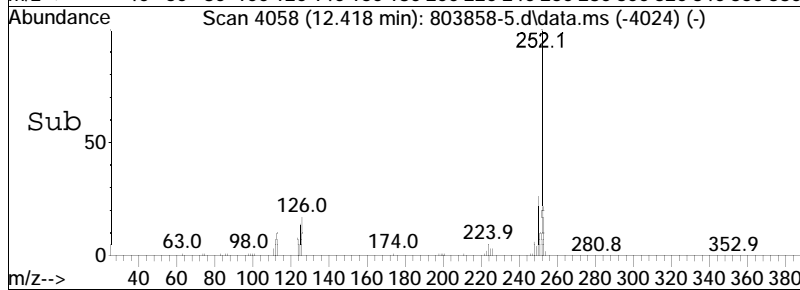
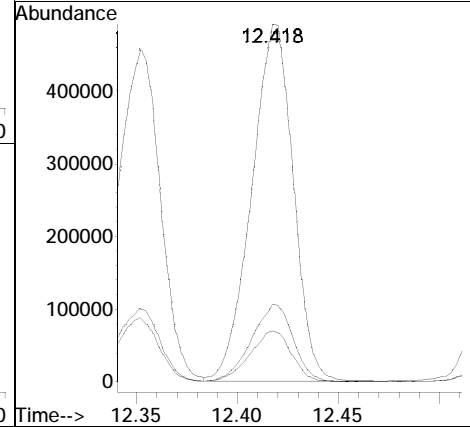
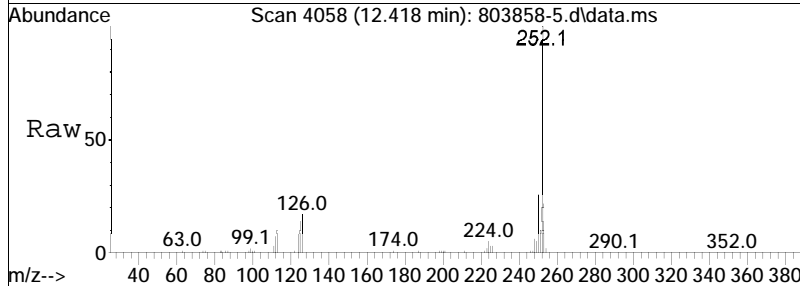
Tgt Ion	Ratio	Lower	Upper
252	100		
125	13.0	11.4	17.0
253	21.6	17.2	25.8

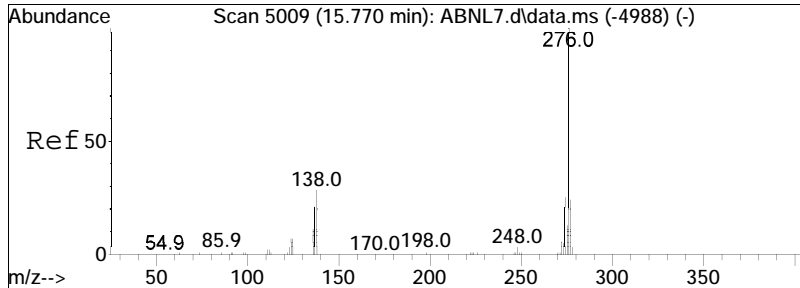




#112
 Benzo(a)pyrene
 Concen: 31.48 ug/ml
 RT: 12.418 min Scan# 4058
 Delta R.T. -0.003 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

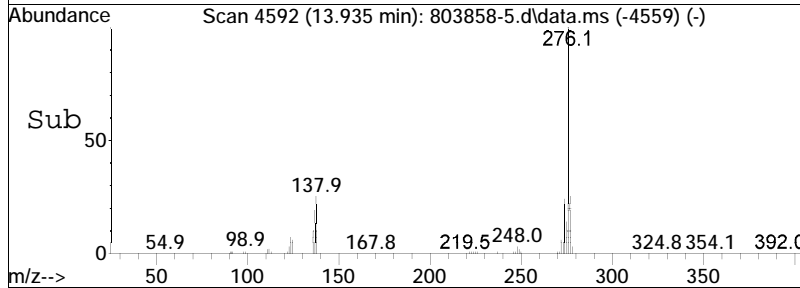
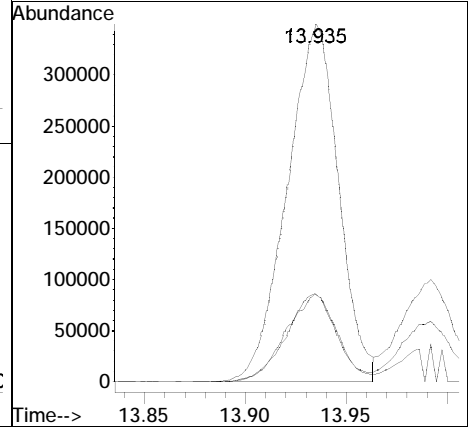
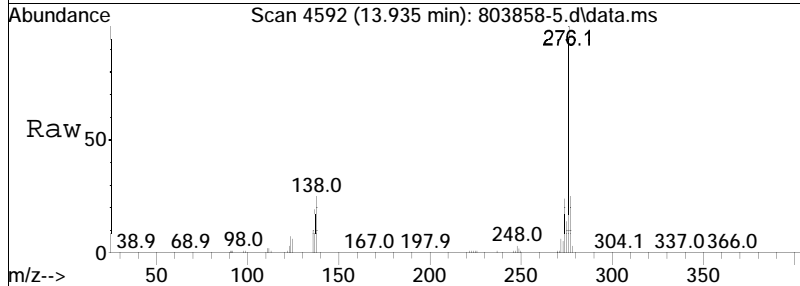
Tgt Ion	Ratio	Lower	Upper
252	100		
125	14.2	12.6	18.8
253	21.7	16.9	25.3

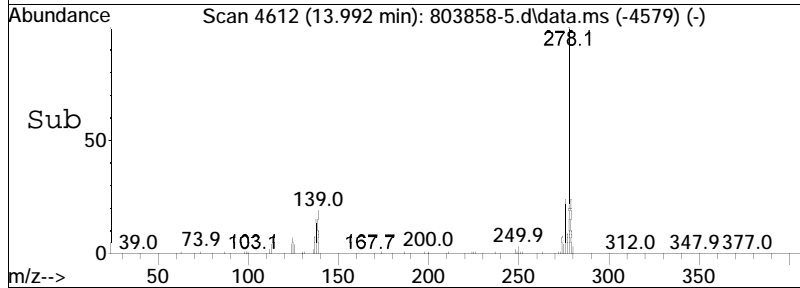
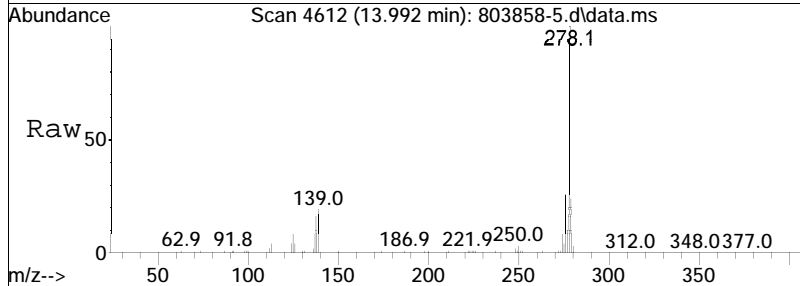
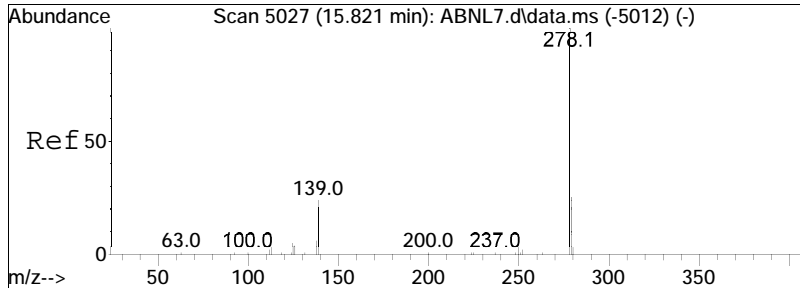




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 31.55 ug/mL
 RT: 13.935 min Scan# 4592
 Delta R.T. -0.006 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

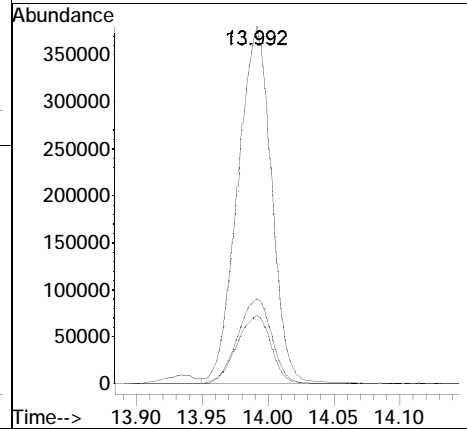
Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.7	21.4	32.0
277	24.3	19.2	28.8

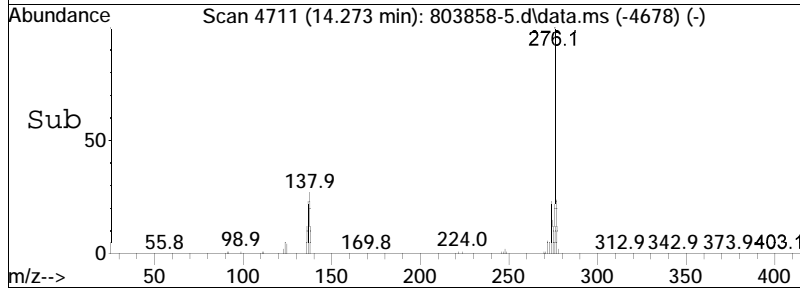
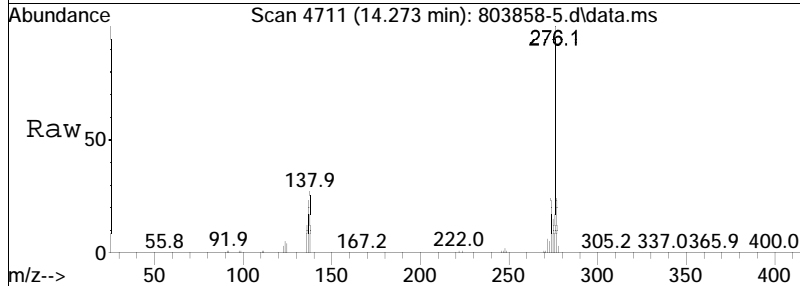
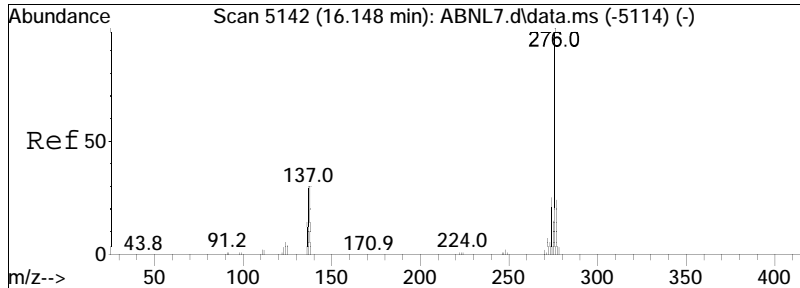




#115
 Dibenzo(a,h)anthracene
 Concen: 28.77 ug/ml
 RT: 13.992 min Scan# 4612
 Delta R.T. -0.006 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

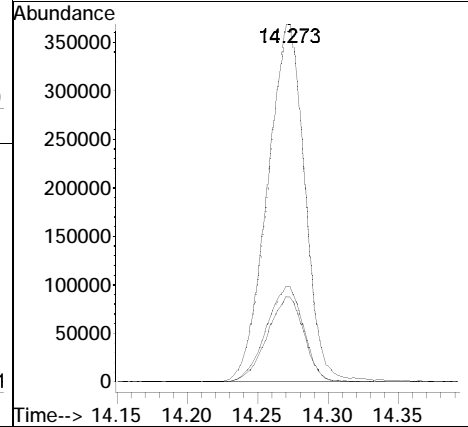
Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.6	17.1	25.7
279	24.1	19.3	28.9





#116
 Benzo(ghi)perylene
 Concen: 28.26 ug/ml
 RT: 14.273 min Scan# 4711
 Delta R.T. -0.006 min
 Lab File: 803858-5.d
 Acq: 19 Jul 2023 6:19 am

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.0	26.7	40.1
277	23.8	19.4	29.2



Manual Integration Report

Data Path	: I:\8270\SV103\230718n\	QMethod	: FS230515nSV103.m
Data File	: 803858-5.d	Operator	: SV103:ek
Date Inj'd	: 7/19/2023 6:19 am	Instrument	: SV103
Sample	: WG1803858-5,32,,mg	Quant Date	: 7/19/2023 6:39 am

There are no manual integrations or false positives in this file.



Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: $Amt * DF * 1000 * (1/Vo) * Vf$

Where:

DF = Dilution Factor

Vo = Volume of Sample (mL)

Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: $Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)$

Where:

DF = Dilution Factor

Wt = Weight of Sample (g)

Vf = Extraction Lab Final Volume (mL)

TS = Total Solids



ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jul 26 2023, 02:47 pm

Work Group: WG1803858 for Department: 2 Organic Preparation

Created: 16-JUL-23 Due: Operator: RPM

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2339907-02	TP-02-3-4FT	S NYTCL-8270	SOIL	DONE	U	0725	0726	S0	Glass-A.25
L2339907-03	TP-03-0.5-2 FT	S NYTCL-8270	SOIL	DONE	U	0725	0726	S0	Glass-A.25
L2339907-05	TP-05-0.5-2.5 FT	S NYTCL-8270	SOIL	DONE	U	0726	0726	S0	Glass-A.25
L2339907-06	TP-06-0.4-3 FT	S NYTCL-8270	SOIL	DONE	U	0726	0726	S0	Glass-A.25
L2339907-07	TP-07-2.0-4.5 FT	S NYTCL-8270	SOIL	DONE	U	0725	0726	S0	Glass-A.25
WG1803858-1	Laboratory Method Bl	S NYTCL-8270	SOIL	DONE	U				
WG1803858-2	Laboratory Control S	S NYTCL-8270	SOIL	DONE	U				
WG1803858-3	LCS Duplicate	S NYTCL-8270	SOIL	DONE	U				
WG1803858-4	Matrix Spike	S NYTCL-8270	SOIL	DONE	U				
WG1803858-5	Matrix Spike Duplica	S NYTCL-8270	SOIL	DONE	U				

Comments:

WG1803858-3 WG1803858-2
 WG1803858-4 L2339907-02
 WG1803858-5 L2339907-02

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jul 26 2023, 02:47 pm

Work Group: WG1804755 for Department: 2 Organic Preparation

Created: 18-JUL-23 Due: Operator: CAH

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2339813-09	B-18-3 (15.5)	S NYTCL-PAH	SOIL	DONE	U	0726	0721	1C	Glass-A.25
L2339907-04	TP-04-0.5-2.5 FT	S NYTCL-8270	SOIL	DONE	U	0726	0726	S0	Glass-A.25
L2339907-09	BD-01-3-4 FT	S NYTCL-8270	SOIL	DONE	U	0725	0726	S0	Glass-A.25
L2340180-01	COMP-1	S NYCP51-PAH	SOIL	DONE	U	0727	0727	S0	Glass-A.25
L2340781-01	SB-38M (1-1.5)	C NYTCL-8270	SOIL	DONE	U	0731	0720	1B	Glass-A.25
L2340781-02	SB-39M (2-2.5)	C NYTCL-8270	SOIL	DONE	U	0731	0720	1B	Glass-A.25
L2340781-03	SB-40M (0.5-1)	C NYTCL-8270	SOIL	DONE	U	0731	0720	1B	Glass-A.25
L2340781-06	SB-43M (2.5-3)	C NYTCL-8270	SOIL	DONE	U	0731	0720	1B	Glass-A.25
L2340846-02	SB-9 (6')	C NYTCL-8270	SOIL	DONE	U	0731	0724	S0	Glass-A.25
L2340846-03	SB-8 (6.5')	C NYTCL-8270	SOIL	DONE	U	0731	0724	S0	Glass-A.25
L2340846-04	SB-7 (6')	C NYTCL-8270	SOIL	DONE	U	0731	0724	S0	Glass-A.25
L2340846-05	SB-6 (6.5')	C NYTCL-8270	SOIL	DONE	U	0731	0724	S0	Glass-A.25
L2341039-01	SB-44G(3-3.5)	C NYTCL-8270	SOIL	DONE	U	0801	0720	1B	Glass-A.25
L2341039-02	SB-45G(3.5-4)	C NYTCL-8270	SOIL	DONE	U	0801	0720	1B	Glass-A.25
L2341039-03	SB-46G(1.5-2)	C NYTCL-8270	SOIL	DONE	U	0801	0720	1B	Glass-A.25
L2341039-05	SB-50P(2.5-3)	C NYTCL-8270	SOIL	DONE	U	0801	0720	1B	Glass-A.25
WG1804755-1	Laboratory Method Bl	S NYTCL-8270	SOIL	DONE	U				
WG1804755-1	Laboratory Method Bl	S NYTCL-PAH	SOIL	DONE	U				
WG1804755-1	Laboratory Method Bl	S NYCP51-PAH	SOIL	WIP	U				
WG1804755-2	Laboratory Control S	S NYCP51-PAH	SOIL	WIP	U				
WG1804755-2	Laboratory Control S	S NYTCL-PAH	SOIL	DONE	U				
WG1804755-2	Laboratory Control S	S NYTCL-8270	SOIL	DONE	U				
WG1804755-3	LCS Duplicate	S NYTCL-PAH	SOIL	DONE	U				
WG1804755-3	LCS Duplicate	S NYCP51-PAH	SOIL	WIP	U				
WG1804755-3	LCS Duplicate	S NYTCL-8270	SOIL	DONE	U				
Comments:									
WG1804755-3	WG1804755-2								

Analysis log File

Total Files Reported in Log : 46
 Log Generated From Directory: I:\8270\SV103\230515nical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE	INJ'D
1	Tune1DNR.d	ABN-SV103.M	Tune1		5/15/2023	8:30 pm
2	Tune1a.d	ABN-SV103.M	Tune1	WG1779694,,	5/15/2023	8:57 pm
3	ABNL10.d	ABN-SV103.M	IL1,32,,ABNL200 Lot# 99	WG1779694,,	5/15/2023	9:20 pm
4	ABNL9.d	ABN-SV103.M	IL2,32,,ABNL150 Lot# 99	WG1779694,,	5/15/2023	9:43 pm
5	ABNL8.d	ABN-SV103.M	IL3,32,,ABNL100 Lot# 99	WG1779694,,	5/15/2023	10:07 pm
6	ABNL7.d	ABN-SV103.M	IL4,32,,ABNL50 Lot# 994	WG1779694,,	5/15/2023	10:30 pm
7	ABNL6.d	ABN-SV103.M	IL5,32,,ABNL20 Lot# 994	WG1779694,,	5/15/2023	10:53 pm
8	ABNL5.d	ABN-SV103.M	IL6,32,,ABNL10 Lot# 994	WG1779694,,	5/15/2023	11:17 pm
9	ABNL4.d	ABN-SV103.M	IL7,32,,ABNL5 Lot# 9947	WG1779694,,	5/15/2023	11:40 pm
10	ABNL3.d	ABN-SV103.M	IL8,32,,ABNL3 Lot# 9948	WG1779694,,	5/16/2023	12:03 am
11	ABNL2.d	ABN-SV103.M	IL9,32,,ABNL2 Lot# 9949	WG1779694,,	5/16/2023	12:27 am
12	ABNL1.d	ABN-SV103.M	IL10,32,,ABNL1 Lot# 995	WG1779694,,	5/16/2023	12:51 am
13	AP9L10.d	ABN-SV103.M	IL11,32,,AP9L200 Lot# 1	WG1779694,,	5/16/2023	1:14 am
14	AP9L9.d	ABN-SV103.M	IL12,32,,AP9L150 Lot# 1	WG1779694,,	5/16/2023	1:37 am
15	AP9L8.d	ABN-SV103.M	IL13,32,,AP9L100 Lot# 1	WG1779694,,	5/16/2023	2:01 am
16	AP9L7.d	ABN-SV103.M	IL14,32,,AP9L50 Lot# 10	WG1779694,,	5/16/2023	2:24 am
17	AP9L6.d	ABN-SV103.M	IL15,32,,AP9L20 Lot# 10	WG1779694,,	5/16/2023	2:48 am
18	AP9L5.d	ABN-SV103.M	IL16,32,,AP9L10 Lot# 10	WG1779694,,	5/16/2023	3:11 am
19	AP9L4.d	ABN-SV103.M	IL17,32,,AP9L5 Lot# 100	WG1779694,,	5/16/2023	3:35 am
20	AP9L3.d	ABN-SV103.M	IL18,32,,AP9L3 Lot# 100	WG1779694,,	5/16/2023	3:58 am
21	AP9L2.d	ABN-SV103.M	IL19,32,,AP9L2 Lot# 100	WG1779694,,	5/16/2023	4:21 am
22	AP9L1.d	ABN-SV103.M	IL20,32,,AP9L1 Lot# 100	WG1779694,,	5/16/2023	4:45 am
23	ABNICV.d	ABN-SV103.M	CQICV1,32,,ABNICV Lot#	WG1779694,,	5/16/2023	5:08 am
24	AP9ICV.d	ABN-SV103.M	CQICV2,32,,AP9ICV Lot#	WG1779694,,	5/16/2023	5:32 am
25	Tune2DNR.d	ABN-SV103.M	Tune2		5/16/2023	5:55 am
26	ADPL10DNR.d	ABN-SV103.M	IL21,32,,ADPL200 Lot# 1		5/16/2023	6:18 am
27	ADPL9DNR.d	ABN-SV103.M	IL22,32,,ADPL150 Lot# 1		5/16/2023	6:42 am
28	ADPL8DNR.d	ABN-SV103.M	IL23,32,,ADPL100 Lot# 1		5/16/2023	7:05 am
29	ADPL7DNR.d	ABN-SV103.M	IL24,32,,ADPL50 Lot# 10		5/16/2023	7:29 am
30	ADPL6DNR.d	ABN-SV103.M	IL25,32,,ADPL20 Lot# 10		5/16/2023	7:52 am
31	ADPL5DNR.d	ABN-SV103.M	IL26,32,,ADPL10 Lot# 10		5/16/2023	8:16 am
32	Tune2aDNR.d	ABN-SV103.M	Tune2		5/16/2023	8:47 am
33	ADPL10aDNR.d	ABN-SV103.M	IL21,32,,ADPL200 Lot# 1		5/16/2023	9:10 am
34	Tune2b.d	ABN-SV103.M	Tune2	WG1779694,,	5/16/2023	9:38 am
35	ADPL10b.d	ABN-SV103.M	IL21,32,,ADPL200 Lot# 1	WG1779694,,	5/16/2023	10:02 am
36	ADPL9b.d	ABN-SV103.M	IL22,32,,ADPL150 Lot# 1	WG1779694,,	5/16/2023	10:25 am
37	ADPL8b.d	ABN-SV103.M	IL23,32,,ADPL100 Lot# 1	WG1779694,,	5/16/2023	10:49 am
38	ADPL7b.d	ABN-SV103.M	IL24,32,,ADPL50 Lot# 10	WG1779694,,	5/16/2023	11:12 am
39	ADPL6b.d	ABN-SV103.M	IL25,32,,ADPL20 Lot# 10	WG1779694,,	5/16/2023	11:35 am
40	ADPL5b.d	ABN-SV103.M	IL26,32,,ADPL10 Lot# 10	WG1779694,,	5/16/2023	11:59 am
41	ADPL4b.d	ABN-SV103.M	IL27,32,,ADPL5 Lot# 100	WG1779694,,	5/16/2023	12:22 pm
42	ADPL3b.d	ABN-SV103.M	IL28,32,,ADPL3 Lot# 100	WG1779694,,	5/16/2023	12:45 pm
43	ADPL2b.d	ABN-SV103.M	IL29,32,,ADPL2 Lot# 100	WG1779694,,	5/16/2023	1:09 pm
44	ADPL1b.d	ABN-SV103.M	IL30,32,,ADPL1 Lot# 100	WG1779694,,	5/16/2023	1:32 pm
45	ADPICVb.d	ABN-SV103.M	CQICV3,32,,ADPICV Lot#	WG1779694,,	5/16/2023	1:55 pm
46	Blank.d	ABN-SV103.M	Instrument Blank		5/16/2023	2:19 pm

Analysis log File

Total Files Reported in Log : 35
 Log Generated From Directory: I:\8270\SV124\230526ical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE	INJ'D
1	TUNE1.D	8270FAST.M	TUNE1	WG1785590,,	5/26/2023	5:08 pm
2	ABNL10.D	8270FAST.M	IL1,32,,ABNL200 Lot# 99	WG1785590,,	5/26/2023	5:25 pm
3	ABNL9.D	8270FAST.M	IL2,32,,ABNL150 Lot# 99	WG1785590,,	5/26/2023	5:42 pm
4	ABNL8.D	8270FAST.M	IL3,32,,ABNL100 Lot# 99	WG1785590,,	5/26/2023	5:59 pm
5	ABNL7.D	8270FAST.M	IL4,32,,ABNL50 Lot# 994	WG1785590,,	5/26/2023	6:16 pm
6	ABNL6.D	8270FAST.M	IL5,32,,ABNL20 Lot# 994	WG1785590,,	5/26/2023	6:33 pm
7	ABNL5.D	8270FAST.M	IL6,32,,ABNL10 Lot# 994	WG1785590,,	5/26/2023	6:50 pm
8	ABNL4.D	8270FAST.M	IL7,32,,ABNL5 Lot# 9947	WG1785590,,	5/26/2023	7:07 pm
9	ABNL3.D	8270FAST.M	IL8,32,,ABNL3 Lot# 9948	WG1785590,,	5/26/2023	7:23 pm
10	ABNL2.D	8270FAST.M	IL9,32,,ABNL2 Lot# 9949	WG1785590,,	5/26/2023	7:40 pm
11	ABNL1.D	8270FAST.M	IL10,32,,ABNL1 Lot# 995	WG1785590,,	5/26/2023	7:57 pm
12	AP9L10.D	8270FAST.M	IL11,32,,AP9L200 Lot# 1	WG1785590,,	5/26/2023	8:14 pm
13	AP9L9.D	8270FAST.M	IL12,32,,AP9L150 Lot# 1	WG1785590,,	5/26/2023	8:31 pm
14	AP9L8.D	8270FAST.M	IL13,32,,AP9L100 Lot# 1	WG1785590,,	5/26/2023	8:47 pm
15	AP9L7.D	8270FAST.M	IL14,32,,AP9L50 Lot# 10	WG1785590,,	5/26/2023	9:04 pm
16	AP9L6.D	8270FAST.M	IL15,32,,AP9L20 Lot# 10	WG1785590,,	5/26/2023	9:21 pm
17	AP9L5.D	8270FAST.M	IL16,32,,AP9L10 Lot# 10	WG1785590,,	5/26/2023	9:37 pm
18	AP9L4.D	8270FAST.M	IL17,32,,AP9L5 Lot# 100	WG1785590,,	5/26/2023	9:54 pm
19	AP9L3.D	8270FAST.M	IL18,32,,AP9L3 Lot# 100	WG1785590,,	5/26/2023	10:11 pm
20	AP9L2.D	8270FAST.M	IL19,32,,AP9L2 Lot# 100	WG1785590,,	5/26/2023	10:27 pm
21	AP9L1.D	8270FAST.M	IL20,32,,AP9L1 Lot# 100	WG1785590,,	5/26/2023	10:44 pm
22	ABNICV.D	8270FAST.M	CQICV1,32,,ABNICV Lot#	WG1785590,,	5/26/2023	11:01 pm
23	AP9ICV.D	8270FAST.M	CQICV2,32,,AP9ICV Lot#	WG1785590,,	5/26/2023	11:17 pm
24	ADPL10.D	8270FAST.M	IL21,32,,ADPL200 Lot# 1	WG1785590,,	5/26/2023	11:34 pm
25	ADPL9.D	8270FAST.M	IL22,32,,ADPL150 Lot# 1	WG1785590,,	5/26/2023	11:51 pm
26	ADPL5.D	8270FAST.M	IL26,32,,ADPL10 Lot# 10	WG1785590,,	5/27/2023	12:59 am
27	ADPL6.D	8270FAST.M	IL25,32,,ADPL20 Lot# 10	WG1785590,,	5/27/2023	12:42 am
28	ADPL8.D	8270FAST.M	IL23,32,,ADPL100 Lot# 1	WG1785590,,	5/27/2023	12:08 am
29	ADPL7.D	8270FAST.M	IL24,32,,ADPL50 Lot# 10	WG1785590,,	5/27/2023	12:25 am
30	ADPL4.D	8270FAST.M	IL27,32,,ADPL5 Lot# 100	WG1785590,,	5/27/2023	1:16 am
31	ADPL3.D	8270FAST.M	IL28,32,,ADPL3 Lot# 100	WG1785590,,	5/27/2023	1:33 am
32	ADPL2.D	8270FAST.M	IL29,32,,ADPL2 Lot# 100	WG1785590,,	5/27/2023	1:50 am
33	ADPL1.D	8270FAST.M	IL30,32,,ADPL1 Lot# 100	WG1785590,,	5/27/2023	2:07 am
34	ADPICV.D	8270FAST.M	CQICV3,32,,ADPICV Lot#	WG1785590,,	5/27/2023	2:24 am
35	INSBLK.D	8270FAST.M	Instrument Blank		5/27/2023	2:41 am

Comment:

Operator: SV103:

Data Path: C:\MSDCHEM\1\DATA\230718n\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run	Sequence Barcode Options
(X) Full Method	(X) On Mismatch, Inject Anyway
() Reprocessing Only	() On Mismatch, Don't Inject
	() Barcode Disabled

Line	Sample	Name/Misc Info	
1) Sample	141	DEG0718n	ABN-SV103 wg-1,32,,SV103 Degdftpp
2) Sample	144	ADP0718n	ABN-SV103 wg-5,32,,ADP 10057 gmr071
3) Sample	142	ABN0718n	ABN-SV103 wg-3,32,,ABN 10133 gmr071
4) Sample	143	AP90718n	ABN-SV103 wg-4,32,,AP9 10068 gmr071
5) Sample	1	799499-1	ABN-SV103 WG1799499-1,32,,LOQ,mg
6) Sample	2	799499-2	ABN-SV103 WG1799499-2,32,,LOQ,mg
7) Sample	3	799499-3	ABN-SV103 WG1799499-3,32,,LOQ,mg
8) Sample	4	799499-4	ABN-SV103 WG1799499-4,32,,LOQ,mg
9) Sample	5	36761-05	ABN-SV103 L2336761-05,32,,LOQ,mg
10) Sample	6	804631-1	ABN-SV103 WG1804631-1,32,,mg
11) Sample	7	804631-2	ABN-SV103 WG1804631-2,32,,mg
12) Sample	8	804631-3	ABN-SV103 WG1804631-3,32,,mg
13) Sample	9	803858-1	ABN-SV103 WG1803858-1,32,,mg
14) Sample	10	803858-2	ABN-SV103 WG1803858-2,32,,mg
15) Sample	11	803858-3	ABN-SV103 WG1803858-3,32,,mg
16) Sample	12	40545-01	ABN-SV103 L2340545-01,32,,R1A,mg
17) Sample	13	804631-4	ABN-SV103 WG1804631-4,32,,mg
18) Sample	14	804631-5	ABN-SV103 WG1804631-5,32,,mg
19) Sample	15	40545-02	ABN-SV103 L2340545-02,32,,R1A,mg
20) Sample	16	40545-03	ABN-SV103 L2340545-03,32,,R1A,mg
21) Sample	17	40545-04	ABN-SV103 L2340545-04,32,,R1A,mg
22) Sample	18	40545-05	ABN-SV103 L2340545-05,32,,R1A,mg
23) Sample	19	38329-27	ABN-SV103 L2338329-27,32,,mg
24) Sample	20	39907-02	ABN-SV103 L2339907-02,32,,mg
25) Sample	21	803858-4	ABN-SV103 WG1803858-4,32,,mg
26) Sample	22	803858-5	ABN-SV103 WG1803858-5,32,,mg
27) Sample	23	39907-03	ABN-SV103 L2339907-03,32,,mg
28) Sample	24	39907-05	ABN-SV103 L2339907-05,32,,mg
29) Sample	25	39907-06	ABN-SV103 L2339907-06,32,,mg
30) Sample	26	39907-07	ABN-SV103 L2339907-07,32,,mg
31) Sample	27	966-08d1	ABN-SV103 L2339966-08d,32,10,MD,tic

Comment:

Operator: SV124:

Data Path: C:\MSDCHEM\1\DATA\230719\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run Sequence Barcode Options
 (X) Full Method (X) On Mismatch, Inject Anyway
 () Reprocessing Only () On Mismatch, Don't Inject
 () Barcode Disabled

Line	Sample	Sample Name/Misc Info
1)	Sample	141 DEG0719 8270FAST wg-1,32,,SV124 Degdftpp
2)	Sample	142 ABN0719 8270FAST wg-3,32,,ABN 10133 gmr0708B
3)	Sample	143 AP90719 8270FAST wg-4,32,,AP9 10068 gmr0711B
4)	Sample	144 ADP0719 8270FAST wg-5,32,,ADP 10057 gmr0711B
5)	Sample	1 804755-1 8270FAST WG1804755-1,32,,gmr
6)	Sample	2 804755-2 8270FAST WG1804755-2,32,,gmr
7)	Sample	3 804755-3 8270FAST WG1804755-3,32,,gmr
8)	Sample	4 804777-1 8270FAST WG1804777-1,32,,re,gmr
9)	Sample	5 804777-2 8270FAST WG1804777-2,32,,re,gmr
10)	Sample	6 804777-3 8270FAST WG1804777-3,32,,re,gmr
11)	Sample	7 804732-1 8270FAST WG1804732-1,32,,gmr
12)	Sample	8 804732-2 8270FAST WG1804732-2,32,,gmr
13)	Sample	9 804732-3 8270FAST WG1804732-3,32,,gmr
14)	Sample	10 40603-08 8270FAST L2340603-08,32,,R1D,gmr
15)	Sample	11 40551-01 8270FAST L2340551-01,32,,re,gmr
16)	Sample	12 41049-01 8270FAST L2341049-01,32,,R3A,gmr
17)	Sample	13 40551-02 8270FAST L2340551-02,32,,re,gmr
18)	Sample	14 40781-01 8270FAST L2340781-01,32,,R1B,gmr
19)	Sample	15 40781-02 8270FAST L2340781-02,32,,R1B,gmr
20)	Sample	16 40781-03 8270FAST L2340781-03,32,,R1B,gmr
21)	Sample	17 40781-04 8270FAST L2340781-04,32,,R1B,gmr
22)	Sample	18 40781-05 8270FAST L2340781-05,32,,R1B,gmr
23)	Sample	19 40781-06 8270FAST L2340781-06,32,,R1B,gmr
24)	Sample	20 39813-09 8270FAST L2339813-09,32,,R1C,gmr
25)	Sample	21 40055-06 8270FAST L2340055-06,32,,gmr
26)	Sample	22 40055-10 8270FAST L2340055-10,32,,gmr
27)	Sample	23 40201-01 8270FAST L2340201-01,32,,gmr
28)	Sample	24 40201-02 8270FAST L2340201-02,32,,gmr
29)	Sample	25 40796-17 8270FAST L2340796-17,32,,R3E,gmr
30)	Sample	26 40854-01 8270FAST L2340854-01,32,,R3E,gmr
31)	Sample	27 40854-02 8270FAST L2340854-02,32,,R3E,gmr
32)	Sample	28 40854-03 8270FAST L2340854-03,32,,R3E,gmr
33)	Sample	29 40854-04 8270FAST L2340854-04,32,,R3E,gmr
34)	Sample	30 40854-05 8270FAST L2340854-05,32,,R3E,gmr
35)	Sample	31 40854-06 8270FAST L2340854-06,32,,R3E,gmr
36)	Sample	32 40854-07 8270FAST L2340854-07,32,,R3E,gmr
37)	Sample	33 40854-08 8270FAST L2340854-08,32,,R3E,gmr
38)	Sample	34 40846-02 8270FAST L2340846-02,32,,gmr
39)	Sample	35 40846-03 8270FAST L2340846-03,32,,gmr
40)	Sample	36 40846-04 8270FAST L2340846-04,32,,gmr
41)	Sample	37 40846-05 8270FAST L2340846-05,32,,gmr

Analysis log File

Total Files Reported in Log : 36
 Log Generated From Directory: I:\8270\SV124\230720na\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE	INJ'D
1	DEG0720na.D	8270FAST.M	WG1805740-1,32,,SV124 D	WG1805740,,ical20053	7/20/2023	6:32 pm
2	ABN0720na.D	8270FAST.M	WG1805740-3,32,,ABN 101	WG1805740,,ical20053	7/20/2023	6:48 pm
3	AP90720na.D	8270FAST.M	WG1805740-4,32,,AP9 100	WG1805740,,ical20053	7/20/2023	7:05 pm
4	ADP0720na.D	8270FAST.M	WG1805740-5,32,,ADP 100	WG1805740,,ical20053	7/20/2023	7:22 pm
5	805285-1.D	8270FAST.M	WG1805285-1,32,,mg	wg1805740,WG1805285,..	7/20/2023	7:39 pm
6	805285-2.D	8270FAST.M	WG1805285-2,32,,mg	wg1805740,WG1805285,..	7/20/2023	7:56 pm
7	805285-3.D	8270FAST.M	WG1805285-3,32,,mg	wg1805740,WG1805285,..	7/20/2023	8:12 pm
8	38559-02.D	8270FAST.M	L2338559-02,32,,mg	wg1805740,WG1805285,..	7/20/2023	8:29 pm
9	39447-02.D	8270FAST.M	L2339447-02,32,,mg	wg1805740,WG1805285,..	7/20/2023	8:46 pm
10	41018-01.D	8270FAST.M	L2341018-01,32,,mg	wg1805740,WG1805285,..	7/20/2023	9:03 pm
11	41018-02.D	8270FAST.M	L2341018-02,32,,mg	wg1805740,WG1805285,..	7/20/2023	9:19 pm
12	423-02d1.D	8270FAST.M	L2339423-02d,32,10,RV,m	wg1805740,WG1803131,..	7/20/2023	9:36 pm
13	423-04d1.D	8270FAST.M	L2339423-04d,32,10,RV,m	wg1805740,WG1803131,..	7/20/2023	9:53 pm
14	423-03d1.D	8270FAST.M	L2339423-03d,32,10,RV,m	wg1805740,WG1803131,..	7/20/2023	10:09 pm
15	282-26d1.D	8270FAST.M	L2340282-26d,32,10,R3B,	wg1805740,WG1803758,..	7/20/2023	10:26 pm
16	39907-04.D	8270FAST.M	L2339907-04,32,,mg	wg1805740,WG1804755,..	7/20/2023	10:42 pm
17	39907-09.D	8270FAST.M	L2339907-09,32,,mg	wg1805740,WG1804755,..	7/20/2023	10:59 pm
18	430-01d1.D	8270FAST.M	L2339430-01d,32,5,RE,MV	wg1805740,WG1805057,..	7/20/2023	11:16 pm
19	39509-01.D	8270FAST.M	L2339509-01,32,,mg	wg1805740,WG1805057,..	7/20/2023	11:32 pm
20	39509-02.D	8270FAST.M	L2339509-02,32,,mg	wg1805740,WG1805057,..	7/20/2023	11:49 pm
21	39509-04.D	8270FAST.M	L2339509-04,32,,mg	wg1805740,WG1805057,..	7/21/2023	12:22 am
22	39509-03.D	8270FAST.M	L2339509-03,32,,mg	wg1805740,WG1805057,..	7/21/2023	12:06 am
23	39913-04.D	8270FAST.M	L2339913-04,32,,RV,mg	wg1805740,WG1803674,..	7/21/2023	12:56 am
24	39509-05.D	8270FAST.M	L2339509-05,32,,mg	wg1805740,WG1805057,..	7/21/2023	12:39 am
25	41165-09.D	8270FAST.M	L2341165-09,32,,R3B,mg	wg1805740,WG1805112,..	7/21/2023	1:12 am
26	41165-08.D	8270FAST.M	L2341165-08,32,,R3B,mg	wg1805740,WG1805112,..	7/21/2023	1:29 am
27	41165-06.D	8270FAST.M	L2341165-06,32,,R3B,mg	wg1805740,WG1805112,..	7/21/2023	1:45 am
28	41165-05.D	8270FAST.M	L2341165-05,32,,R3B,mg	wg1805740,WG1805112,..	7/21/2023	2:02 am
29	39409-08.D	8270FAST.M	L2339409-08,32,,mg	wg1805740,WG1804631,..	7/21/2023	2:19 am
30	37824-01.D	8270FAST.M	L2337824-01,32,,RV,mg	wg1805740,WG1802207,..	7/21/2023	2:35 am
31	803-02d1.D	8270FAST.M	L2340803-02d,32,5,RV,mg	wg1805740,WG1804762,..	7/21/2023	2:52 am
32	803-01d1.D	8270FAST.M	L2340882-01d,32,10,RV,m	wg1805740,WG1804762,..	7/21/2023	3:08 am
33	951-02d1.D	8270FAST.M	L2339951-02d,32,5,RV,mg	wg1805740,WG1803810,..	7/21/2023	3:25 am
34	951-03d1.D	8270FAST.M	L2339951-03d,32,5,RV,mg	wg1805740,WG1803810,..	7/21/2023	3:41 am
35	41157-02.D	8270FAST.M	L2341157-02,32,,mg	wg1805740,wg1805273,..	7/21/2023	3:58 am
36	41157-15.D	8270FAST.M	L2341157-15,32,,mg	wg1805740,wg1805273,..	7/21/2023	4:14 am

Workgroup: WG1803858

Prep Method: EPA 3546 Solvent Type: DCM Surrogate Type: ABN Spike Type: ABN Spike Verify by: RPM Lims Spikelot: 8270-USAC2 Additional Reagents/Std <input type="text" value="Ottawa Sand"/> <input type="text" value="22K0761028"/>	Lot #: EG940 Lot #: 10177av-010724, Lot #: 10176f-010724,10175v-010624	Conc.Method: Buchi Solvent Type: DCM Lot #: eg940 Additional Reagents/Std	Cleanup 1 Cleanup Method 1: Cleanup Method 2: Solvent Type: Lot #: Additional Reagents/Std
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Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight g	Balanc e Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Ti me	Conc Date	Analyst	Final Vol ml	Conc Unit
L2339907-02 SOIL	07/16/23 17:58	Ryan Michaels	30.54	39	1		MW8	NA	07/17/23 08:52	Mark Gillespie	1	M
L2339907-03 SOIL	07/16/23 17:58	Ryan Michaels	30.09	39	1		MW8	NA	07/17/23 08:42	Mark Gillespie	1	M
L2339907-05 SOIL	07/16/23 17:58	Ryan Michaels	30.07	39	1		MW8	NA	07/17/23 08:42	Mark Gillespie	1	M
L2339907-06 SOIL	07/16/23 17:58	Ryan Michaels	10.20	39	1		MW8	NA	07/17/23 08:42	Mark Gillespie	1	M
	LIMITED VOLUME DUE TO MATRIX											
L2339907-07 SOIL	07/16/23 17:58	Ryan Michaels	10.35	39	1		MW8	NA	07/17/23 08:42	Mark Gillespie	1	M
	LIMITED VOLUME DUE TO MATRIX											
WG1803858-1 BLANK	07/16/23 17:58	Ryan Michaels	30.15	39	1		MW8	NA	07/17/23 08:41	Mark Gillespie	1	M
WG1803858-2 LCS	07/16/23 17:58	Ryan Michaels	30.33	39	1	1	MW8	NA	07/17/23 08:41	Mark Gillespie	1	M

Workgroup: WG1803858

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight g	Balanc e Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Ti me	Conc Date	Analyst	Final Vol ml	Conc Unit
WG1803858- 3 LCSD	07/16/23 17:58	Ryan Michaels	30.47	39	1	1	MW8	NA	07/17/23 08:41	Mark Gillespie	1	M
WG1803858- 4 MS	07/16/23 17:58	Ryan Michaels	30.45	39	1	1	MW8	NA	07/17/23 08:52	Mark Gillespie	1	M
WG1803858- 5 MSD	07/16/23 17:58	Ryan Michaels	30.17	39	1	1	MW8	NA	07/17/23 08:41	Mark Gillespie	1	M

Workgroup: WG1804755

Prep Method: EPA 3546 Solvent Type: DCM Surrogate Type: ABN Spike Type: ABN Spike Verify by: CHA / ERB Lims Spikelot: 8270-USAC2 Additional Reagents/Std <input type="text" value="Ottawa Sand"/> <input type="text" value="22d085201"/>	Lot #: eg940 Lot #: 10182c-011824, Lot #: 10176l-010724,10175j-010624	Conc.Method: Buchi Solvent Type: DCM Lot #: EG940 Additional Reagents/Std	Cleanup 1 Cleanup Method 1: Cleanup Method 2: Solvent Type: <input type="text"/> Lot #: <input type="text"/> Additional Reagents/Std
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Extraction

Concentration

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight g	Balance Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol ml	Conc Unit
L2339813-09 SAMP	07/18/23 18:48	Charles Auwah	30.14	39	1		MW8	NA	07/19/23 00:01	Annabella Sarfo	1	I
L2339907-04 SOIL	07/19/23 05:39	Eric Baawuah	30.83	#60	1		MW#8	NA	07/19/23 18:45	Victor Kono	1	I/M
L2339907-09 SOIL	07/19/23 05:39	Eric Baawuah	30.16	#60	1		MW#8	NA	07/19/23 18:45	Victor Kono	1	I/M
L2340180-01 SOIL	07/19/23 05:39	Eric Baawuah	30.82	#60	1		MW#8	NA	07/19/23 18:45	Victor Kono	1	I/M
L2340781-01 SAMP	07/18/23 18:48	Charles Auwah	30.20	39	1		MW8	NA	07/19/23 00:01	Annabella Sarfo	1	I
L2340781-02 SAMP	07/18/23 18:48	Charles Auwah	30.59	39	1		MW8	NA	07/19/23 00:01	Annabella Sarfo	1	I
L2340781-03 SAMP	07/18/23 18:48	Charles Auwah	30.74	39	1		MW8	NA	07/19/23 00:01	Annabella Sarfo	1	I



ORGANIC ELN REPORT

Workgroup: WG1804755

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight g	Balance Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol ml	Conc Unit
L2340781-04 SAMP	07/18/23 18:48	Charles Awuah	30.15	39	1		MW8	NA	07/19/23 00:01	Annabella Sarfo	1	I
L2340781-05 SAMP	07/18/23 18:48	Charles Awuah	30.24	39	1		MW8	NA	07/19/23 00:01	Annabella Sarfo	1	I
L2340781-06 SAMP	07/18/23 18:48	Charles Awuah	30.74	39	1		MW8	NA	07/19/23 00:01	Annabella Sarfo	1	I
L2340846-02 SOIL	07/18/23 18:48	Charles Awuah	30.40	39	1		MW8	NA	07/19/23 00:01	Annabella Sarfo	1	I
L2340846-03 SOIL	07/18/23 18:48	Charles Awuah	30.11	39	1		MW8	NA	07/19/23 00:01	Annabella Sarfo	1	I
L2340846-04 SOIL	07/18/23 18:48	Charles Awuah	30.41	39	1		MW8	NA	07/19/23 00:01	Annabella Sarfo	1	M
L2340846-05 SOIL	07/18/23 18:48	Charles Awuah	30.38	39	1		MW8	NA	07/19/23 00:01	Annabella Sarfo	1	M
L2341039-01 SAMP EMI	07/19/23 05:39	Eric Baawuah	30.22	#60	1		MW#8	NA	07/19/23 18:45	Victor Kono	1	I/M
L2341039-02 SAMP EMI	07/19/23 05:39	Eric Baawuah	30.92	#60	1		MW#8	NA	07/19/23 18:45	Victor Kono	1	I/M
L2341039-03 SAMP EMI	07/19/23 05:39	Eric Baawuah	30.20	#60	1		MW#8	NA	07/19/23 18:45	Victor Kono	1	I/M

Workgroup: WG1804755

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight g	Balance Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol ml	Conc Unit
L2341039-04 SAMP	07/19/23 05:39	Eric Baawuah	30.08	#60	1		MW#8	NA	07/19/23 18:45	Victor Kono	1	I/M
	EMI											
L2341039-05 SAMP	07/19/23 05:39	Eric Baawuah	30.42	#60	1		MW#8	NA	07/19/23 18:45	Victor Kono	1	I/M
	EMI											
WG1804755-1 BLANK	07/18/23 18:48	Charles Awuah	30.50	39	1		MW8	NA	07/19/23 00:01	Annabella Sarfo	1	I
WG1804755-2 LCS	07/18/23 18:48	Charles Awuah	30.56	39	1	1	MW8	NA	07/19/23 00:01	Annabella Sarfo	1	I
WG1804755-3 LCSD	07/18/23 18:48	Charles Awuah	30.44	39	1	1	MW8	NA	07/19/23 00:01	Annabella Sarfo	1	I

Metals

Inorganic Data (ICP Analysis)

Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-02	Date Collected : 07/11/23 14:30
Client ID : TP-02-3-4FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/02/23 10:00
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010D	Analyst : DMB
Lab File ID : WG1810702.pdf	Instrument ID : TRACE6
Sample Amount : 1.293g	%Solids : 89
Digestion Method : EPA 3050B	Date Digested : 07/13/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	4380	8.71	2.35	
7440-36-0	Antimony, Total	0.611	4.35	0.331	J
7440-38-2	Arsenic, Total	2.90	0.871	0.181	
7440-39-3	Barium, Total	30.5	0.871	0.152	
7440-41-7	Beryllium, Total	0.336	0.435	0.029	J
7440-43-9	Cadmium, Total	ND	0.871	0.085	U
7440-70-2	Calcium, Total	2280	8.71	3.05	
7440-47-3	Chromium, Total	6.76	0.871	0.084	
7440-48-4	Cobalt, Total	3.41	1.74	0.144	
7440-50-8	Copper, Total	7.86	0.871	0.225	
7439-89-6	Iron, Total	12000	4.35	0.786	
7439-92-1	Lead, Total	17.2	4.35	0.233	
7439-95-4	Magnesium, Total	1660	8.71	1.34	
7439-96-5	Manganese, Total	359	0.871	0.138	
7440-02-0	Nickel, Total	7.58	2.18	0.211	
7440-09-7	Potassium, Total	379	218	12.5	
7782-49-2	Selenium, Total	ND	1.74	0.225	U
7440-22-4	Silver, Total	ND	0.435	0.246	U
7440-23-5	Sodium, Total	76.9	174	2.74	J
7440-28-0	Thallium, Total	ND	1.74	0.274	U
7440-62-2	Vanadium, Total	13.3	0.871	0.177	
7440-66-6	Zinc, Total	47.0	4.35	0.255	



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-03	Date Collected : 07/11/23 15:45
Client ID : TP-03-0.5-2 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/02/23 15:40
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010D	Analyst : DMB
Lab File ID : WG1810702.pdf	Instrument ID : TRACE6
Sample Amount : 1.289g	%Solids : 83
Digestion Method : EPA 3050B	Date Digested : 07/13/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-89-6	Iron, Total	16400	4.65	0.840	
7440-09-7	Potassium, Total	548	232	13.4	



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-03	Date Collected : 07/11/23 15:45
Client ID : TP-03-0.5-2 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/02/23 11:13
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010D	Analyst : DMB
Lab File ID : WG1810702.pdf	Instrument ID : TRACE6
Sample Amount : 1.289g	%Solids : 83
Digestion Method : EPA 3050B	Date Digested : 07/13/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	6410	9.30	2.51	
7440-36-0	Antimony, Total	1.42	4.65	0.353	J
7440-38-2	Arsenic, Total	6.53	0.930	0.193	
7440-39-3	Barium, Total	128	0.930	0.162	
7440-41-7	Beryllium, Total	0.506	0.465	0.031	
7440-43-9	Cadmium, Total	1.91	0.930	0.091	
7440-70-2	Calcium, Total	15000	9.30	3.26	
7440-47-3	Chromium, Total	10.7	0.930	0.089	
7440-48-4	Cobalt, Total	4.54	1.86	0.154	
7440-50-8	Copper, Total	94.5	0.930	0.240	
7439-92-1	Lead, Total	253	4.65	0.249	
7439-95-4	Magnesium, Total	5780	9.30	1.43	
7439-96-5	Manganese, Total	423	0.930	0.148	
7440-02-0	Nickel, Total	17.0	2.32	0.225	
7782-49-2	Selenium, Total	0.291	1.86	0.240	J
7440-22-4	Silver, Total	ND	0.465	0.263	U
7440-23-5	Sodium, Total	92.3	186	2.93	J
7440-28-0	Thallium, Total	ND	1.86	0.293	U
7440-62-2	Vanadium, Total	15.7	0.930	0.189	
7440-66-6	Zinc, Total	1050	4.65	0.272	



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-04	Date Collected : 07/12/23 08:00
Client ID : TP-04-0.5-2.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/02/23 15:44
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010D	Analyst : DMB
Lab File ID : WG1810702.pdf	Instrument ID : TRACE6
Sample Amount : 1.304g	%Solids : 79
Digestion Method : EPA 3050B	Date Digested : 07/13/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-89-6	Iron, Total	9950	4.85	0.876	
7440-09-7	Potassium, Total	438	243	14.0	



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-04	Date Collected : 07/12/23 08:00
Client ID : TP-04-0.5-2.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/02/23 11:17
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010D	Analyst : DMB
Lab File ID : WG1810702.pdf	Instrument ID : TRACE6
Sample Amount : 1.304g	%Solids : 79
Digestion Method : EPA 3050B	Date Digested : 07/13/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	5350	9.71	2.62	
7440-36-0	Antimony, Total	0.698	4.85	0.369	J
7440-38-2	Arsenic, Total	7.92	0.971	0.202	
7440-39-3	Barium, Total	117	0.971	0.169	
7440-41-7	Beryllium, Total	0.549	0.485	0.032	
7440-43-9	Cadmium, Total	0.530	0.971	0.095	J
7440-70-2	Calcium, Total	10000	9.71	3.40	
7440-47-3	Chromium, Total	9.55	0.971	0.093	
7440-48-4	Cobalt, Total	4.52	1.94	0.161	
7440-50-8	Copper, Total	84.5	0.971	0.250	
7439-92-1	Lead, Total	1080	4.85	0.260	
7439-95-4	Magnesium, Total	3300	9.71	1.49	
7439-96-5	Manganese, Total	265	0.971	0.154	
7440-02-0	Nickel, Total	31.5	2.43	0.235	
7782-49-2	Selenium, Total	0.436	1.94	0.250	J
7440-22-4	Silver, Total	ND	0.485	0.275	U
7440-23-5	Sodium, Total	132	194	3.06	J
7440-28-0	Thallium, Total	ND	1.94	0.306	U
7440-62-2	Vanadium, Total	16.3	0.971	0.197	
7440-66-6	Zinc, Total	248	4.85	0.284	



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-05	Date Collected : 07/12/23 09:30
Client ID : TP-05-0.5-2.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/02/23 15:48
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010D	Analyst : DMB
Lab File ID : WG1810702.pdf	Instrument ID : TRACE6
Sample Amount : 1.295g	%Solids : 82
Digestion Method : EPA 3050B	Date Digested : 07/13/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-89-6	Iron, Total	15100	4.70	0.849	
7440-09-7	Potassium, Total	585	235	13.5	



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-05	Date Collected : 07/12/23 09:30
Client ID : TP-05-0.5-2.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/02/23 11:27
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010D	Analyst : DMB
Lab File ID : WG1810702.pdf	Instrument ID : TRACE6
Sample Amount : 1.295g	%Solids : 82
Digestion Method : EPA 3050B	Date Digested : 07/13/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	5590	9.40	2.54	
7440-36-0	Antimony, Total	1.20	4.70	0.357	J
7440-38-2	Arsenic, Total	9.30	0.940	0.196	
7440-39-3	Barium, Total	103	0.940	0.164	
7440-41-7	Beryllium, Total	0.543	0.470	0.031	
7440-43-9	Cadmium, Total	0.350	0.940	0.092	J
7440-70-2	Calcium, Total	16200	9.40	3.29	
7440-47-3	Chromium, Total	8.78	0.940	0.090	
7440-48-4	Cobalt, Total	6.15	1.88	0.156	
7440-50-8	Copper, Total	67.8	0.940	0.243	
7439-92-1	Lead, Total	98.4	4.70	0.252	
7439-95-4	Magnesium, Total	7200	9.40	1.45	
7439-96-5	Manganese, Total	321	0.940	0.150	
7440-02-0	Nickel, Total	14.2	2.35	0.228	
7782-49-2	Selenium, Total	ND	1.88	0.243	U
7440-22-4	Silver, Total	ND	0.470	0.266	U
7440-23-5	Sodium, Total	184	188	2.96	J
7440-28-0	Thallium, Total	ND	1.88	0.296	U
7440-62-2	Vanadium, Total	20.7	0.940	0.191	
7440-66-6	Zinc, Total	342	4.70	0.276	



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-06	Date Collected : 07/12/23 10:40
Client ID : TP-06-0.4-3 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/02/23 11:32
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010D	Analyst : DMB
Lab File ID : WG1810702.pdf	Instrument ID : TRACE6
Sample Amount : 1.277g	%Solids : 62
Digestion Method : EPA 3050B	Date Digested : 07/13/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	5690	12.7	3.42	
7440-36-0	Antimony, Total	0.682	6.34	0.482	J
7440-38-2	Arsenic, Total	6.45	1.27	0.264	
7440-39-3	Barium, Total	69.1	1.27	0.220	
7440-41-7	Beryllium, Total	1.18	0.634	0.042	
7440-43-9	Cadmium, Total	2.80	1.27	0.124	
7440-70-2	Calcium, Total	4190	12.7	4.43	
7440-47-3	Chromium, Total	7.74	1.27	0.122	
7440-48-4	Cobalt, Total	5.68	2.53	0.210	
7440-50-8	Copper, Total	241	1.27	0.327	
7439-92-1	Lead, Total	52.7	6.34	0.340	
7439-95-4	Magnesium, Total	1520	12.7	1.95	
7439-96-5	Manganese, Total	206	1.27	0.201	
7440-02-0	Nickel, Total	51.8	3.17	0.307	
7782-49-2	Selenium, Total	0.846	2.53	0.327	J
7440-22-4	Silver, Total	ND	0.634	0.358	U
7440-23-5	Sodium, Total	174	253	3.99	J
7440-28-0	Thallium, Total	ND	2.53	0.399	U
7440-62-2	Vanadium, Total	19.5	1.27	0.257	
7440-66-6	Zinc, Total	635	6.34	0.371	



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-06	Date Collected : 07/12/23 10:40
Client ID : TP-06-0.4-3 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/02/23 15:53
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010D	Analyst : DMB
Lab File ID : WG1810702.pdf	Instrument ID : TRACE6
Sample Amount : 1.277g	%Solids : 62
Digestion Method : EPA 3050B	Date Digested : 07/13/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-89-6	Iron, Total	9290	6.34	1.14	
7440-09-7	Potassium, Total	408	317	18.2	



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-07	Date Collected : 07/11/23 11:45
Client ID : TP-07-2.0-4.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/02/23 11:36
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010D	Analyst : DMB
Lab File ID : WG1810702.pdf	Instrument ID : TRACE6
Sample Amount : 1.297g	%Solids : 84
Digestion Method : EPA 3050B	Date Digested : 07/13/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	4530	9.14	2.47	
7440-36-0	Antimony, Total	ND	4.57	0.347	U
7440-38-2	Arsenic, Total	2.82	0.914	0.190	
7440-39-3	Barium, Total	75.4	0.914	0.159	
7440-41-7	Beryllium, Total	0.492	0.457	0.030	
7440-43-9	Cadmium, Total	ND	0.914	0.090	U
7440-70-2	Calcium, Total	10900	9.14	3.20	
7440-47-3	Chromium, Total	5.52	0.914	0.088	
7440-48-4	Cobalt, Total	8.32	1.83	0.152	
7440-50-8	Copper, Total	24.3	0.914	0.236	
7439-92-1	Lead, Total	324	4.57	0.245	
7439-95-4	Magnesium, Total	3560	9.14	1.41	
7439-96-5	Manganese, Total	134	0.914	0.145	
7440-02-0	Nickel, Total	13.7	2.28	0.221	
7782-49-2	Selenium, Total	ND	1.83	0.236	U
7440-22-4	Silver, Total	ND	0.457	0.258	U
7440-23-5	Sodium, Total	199	183	2.88	
7440-28-0	Thallium, Total	ND	1.83	0.288	U
7440-62-2	Vanadium, Total	16.4	0.914	0.185	
7440-66-6	Zinc, Total	52.4	4.57	0.268	



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-07	Date Collected : 07/11/23 11:45
Client ID : TP-07-2.0-4.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/02/23 16:58
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010D	Analyst : DMB
Lab File ID : WG1810702.pdf	Instrument ID : TRACE6
Sample Amount : 1.297g	%Solids : 84
Digestion Method : EPA 3050B	Date Digested : 07/13/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-89-6	Iron, Total	4080	4.57	0.825	
7440-09-7	Potassium, Total	416	228	13.2	



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-09	Date Collected : 07/11/23 00:00
Client ID : BD-01-3-4 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/02/23 17:02
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010D	Analyst : DMB
Lab File ID : WG1810702.pdf	Instrument ID : TRACE6
Sample Amount : 1.285g	%Solids : 91
Digestion Method : EPA 3050B	Date Digested : 07/13/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-89-6	Iron, Total	10900	4.30	0.776	
7440-09-7	Potassium, Total	364	215	12.4	



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-09	Date Collected : 07/11/23 00:00
Client ID : BD-01-3-4 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/02/23 11:41
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010D	Analyst : DMB
Lab File ID : WG1810702.pdf	Instrument ID : TRACE6
Sample Amount : 1.285g	%Solids : 91
Digestion Method : EPA 3050B	Date Digested : 07/13/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	4710	8.60	2.32	
7440-36-0	Antimony, Total	0.484	4.30	0.327	J
7440-38-2	Arsenic, Total	2.07	0.860	0.179	
7440-39-3	Barium, Total	35.3	0.860	0.150	
7440-41-7	Beryllium, Total	0.341	0.430	0.028	J
7440-43-9	Cadmium, Total	ND	0.860	0.084	U
7440-70-2	Calcium, Total	2260	8.60	3.01	
7440-47-3	Chromium, Total	6.95	0.860	0.083	
7440-48-4	Cobalt, Total	3.70	1.72	0.143	
7440-50-8	Copper, Total	6.59	0.860	0.222	
7439-92-1	Lead, Total	4.34	4.30	0.230	
7439-95-4	Magnesium, Total	1820	8.60	1.32	
7439-96-5	Manganese, Total	458	0.860	0.137	
7440-02-0	Nickel, Total	9.16	2.15	0.208	
7782-49-2	Selenium, Total	ND	1.72	0.222	U
7440-22-4	Silver, Total	ND	0.430	0.243	U
7440-23-5	Sodium, Total	68.4	172	2.71	J
7440-28-0	Thallium, Total	ND	1.72	0.271	U
7440-62-2	Vanadium, Total	12.4	0.860	0.174	
7440-66-6	Zinc, Total	30.0	4.30	0.252	



Form 1 METALS

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Lab ID : WG1802988-1
 Client ID : WG1802988-1BLANK
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,6010D
 Lab File ID : WG1810702.pdf
 Sample Amount : 1.25g
 Digestion Method : EPA 3050B

Lab Number : L2339907
 Project Number : 2230119
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 08/02/23 09:38
 Dilution Factor : 1
 Analyst : DMB
 Instrument ID : TRACE6
 %Solids : NA
 Date Digested : 07/13/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	ND	4.00	1.08	U
7440-36-0	Antimony, Total	ND	2.00	0.152	U
7440-38-2	Arsenic, Total	0.097	0.400	0.083	J
7440-39-3	Barium, Total	ND	0.400	0.070	U
7440-41-7	Beryllium, Total	ND	0.200	0.013	U
7440-43-9	Cadmium, Total	ND	0.400	0.039	U
7440-70-2	Calcium, Total	ND	4.00	1.40	U
7440-47-3	Chromium, Total	ND	0.400	0.038	U
7440-48-4	Cobalt, Total	ND	0.800	0.066	U
7440-50-8	Copper, Total	ND	0.400	0.103	U
7439-89-6	Iron, Total	ND	2.00	0.361	U
7439-92-1	Lead, Total	ND	2.00	0.107	U
7439-95-4	Magnesium, Total	ND	4.00	0.616	U
7439-96-5	Manganese, Total	ND	0.400	0.064	U
7440-02-0	Nickel, Total	ND	1.00	0.097	U
7440-09-7	Potassium, Total	ND	100	5.76	U
7782-49-2	Selenium, Total	ND	0.800	0.103	U
7440-22-4	Silver, Total	ND	0.200	0.113	U
7440-23-5	Sodium, Total	8.13	80.0	1.26	J
7440-28-0	Thallium, Total	ND	0.800	0.126	U
7440-62-2	Vanadium, Total	ND	0.400	0.081	U
7440-66-6	Zinc, Total	ND	2.00	0.117	U



Form 1 METALS

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Lab ID : WG1802988-6
 Client ID : Serial Dilution
 Sample Location :
 Sample Matrix : SOIL
 Analytical Method : 1,6010D
 Lab File ID : WG1810702.pdf
 Sample Amount : 1.293g
 Digestion Method : EPA 3050B

Lab Number : L2339907
 Project Number : 2230119
 Date Collected :
 Date Received :
 Date Analyzed : 08/02/23 10:17
 Dilution Factor : 10
 Analyst : DMB
 Instrument ID : TRACE6
 %Solids : NA
 Date Digested : 07/13/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	4520	43.5	11.8	
7440-39-3	Barium, Total	31.1	4.35	0.758	
7440-70-2	Calcium, Total	2360	43.5	15.2	
7439-89-6	Iron, Total	12200	21.8	3.93	
7439-95-4	Magnesium, Total	1720	43.5	6.71	
7439-96-5	Manganese, Total	372.	4.35	0.692	



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : TRACE6

Lab Number : L2339907
 Project Number : 2230119
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum	0.500	0.5300	106							
Antimony	0.500	0.4990	100							
Arsenic	0.500	0.5040	101							
Barium	0.500	0.5080	102							
Beryllium	0.500	0.5130	103							
Cadmium	0.500	0.5010	100							
Calcium	0.500	0.5180	104							
Chromium	0.500	0.5170	103							
Cobalt	0.500	0.5080	102							
Copper	0.500	0.5170	103							
Iron	0.500	0.5240	105							
Lead	0.500	0.5070	101							
Magnesium	0.500	0.5120	102							
Manganese	0.500	0.5210	104							
Nickel	0.500	0.5100	102							
Potassium	5.00	5.4600	109							
Selenium	0.500	0.5130	103							
Silver	0.500	0.5140	103							
Sodium	10.0	10.4000	104							
Thallium	0.500	0.5130	103							
Vanadium	0.500	0.5060	101							
Zinc	0.500	0.5050	101							

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : TRACE6

Lab Number : L2339907
 Project Number : 2230119
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)							
	R1725079-3			R1725079-6			R1725079-8		R1725079-10		
	True	Found	%R	True	Found	%R	Found	%R	Found	%R	
Aluminum	0.500	0.5170	103	0.5000	0.523	105	0.519	104	0.516	103	
Antimony	0.500	0.4900	98	0.5000	0.498	100	0.488	98	0.486	97	
Arsenic	0.500	0.4930	99	0.5000	0.495	99	0.487	97	0.482	96	
Barium	0.500	0.5020	100	0.5000	0.515	103	0.507	101	0.508	102	
Beryllium	0.500	0.5050	101	0.5000	0.511	102	0.508	102	0.506	101	
Cadmium	0.500	0.4940	99	0.5000	0.505	101	0.495	99	0.495	99	
Calcium	0.500	0.4990	100	0.5000	0.523	105	0.511	102	0.500	100	
Chromium	0.500	0.5080	102	0.5000	0.510	102	0.504	101	0.501	100	
Cobalt	0.500	0.5020	100	0.5000	0.509	102	0.500	100	0.498	100	
Copper	0.500	0.5100	102	0.5000	0.516	103	0.508	102	0.507	101	
Iron	0.500	0.5200	104	0.5000	0.526	105	0.524	105	0.539	108	
Lead	0.500	0.5010	100	0.5000	0.507	101	0.496	99	0.493	99	
Magnesium	0.500	0.5050	101	0.5000	0.508	102	0.504	101	0.505	101	
Manganese	0.500	0.5160	103	0.5000	0.522	104	0.516	103	0.514	103	
Nickel	0.500	0.5040	101	0.5000	0.514	103	0.503	101	0.503	101	
Potassium	5.00	5.3200	106	5.0000	5.44	109	5.38	108	5.38	108	
Selenium	0.500	0.4960	99	0.5000	0.505	101	0.494	99	0.493	99	
Silver	0.500	0.5030	101	0.5000	0.509	102	0.510	102	0.511	102	
Sodium	10.0	10.3000	103	10.0000	10.4	104	10.4	104	10.4	104	
Thallium	0.500	0.5050	101	0.5000	0.510	102	0.501	100	0.496	99	
Vanadium	0.500	0.4980	100	0.5000	0.500	100	0.497	99	0.495	99	
Zinc	0.500	0.4960	99	0.5000	0.503	101	0.494	99	0.493	99	

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : TRACE6

Lab Number : L2339907
 Project Number : 2230119
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)							
	Lab ID			R1725079-12			R1725079-14				
	Date Analyzed:	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum				0.5000	0.523	105	0.523	105			
Antimony				0.5000	0.485	97	0.490	98			
Arsenic				0.5000	0.455	91	0.455	91			
Barium				0.5000	0.541	108	0.551	110			
Beryllium				0.5000	0.500	100	0.511	102			
Cadmium				0.5000	0.515	103	0.519	104			
Calcium				0.5000	0.533	107	0.544	109			
Chromium				0.5000	0.486	97	0.488	98			
Cobalt				0.5000	0.499	100	0.504	101			
Copper				0.5000	0.510	102	0.515	103			
Iron				0.5000	0.588	118	0.588	118			
Lead				0.5000	0.489	98	0.492	98			
Magnesium				0.5000	0.513	103	0.515	103			
Manganese				0.5000	0.520	104	0.528	106			
Nickel				0.5000	0.521	104	0.525	105			
Potassium				5.0000	5.57	111	5.68	114			
Selenium				0.5000	0.496	99	0.499	100			
Silver				0.5000	0.520	104	0.528	106			
Sodium				10.0000	10.6	106	10.8	108			
Thallium				0.5000	0.481	96	0.484	97			
Vanadium				0.5000	0.486	97	0.491	98			
Zinc				0.5000	0.492	98	0.496	99			

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : TRACE6

Lab Number : L2339907
 Project Number : 2230119
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum	0.500	0.5210	104							
Antimony	0.500	0.4960	99							
Arsenic	0.500	0.4970	99							
Barium	0.500	0.5090	102							
Beryllium	0.500	0.5090	102							
Cadmium	0.500	0.4960	99							
Calcium	0.500	0.5160	103							
Chromium	0.500	0.5080	102							
Cobalt	0.500	0.5040	101							
Copper	0.500	0.5100	102							
Iron	0.500	0.5370	107							
Lead	0.500	0.5030	101							
Magnesium	0.500	0.5120	102							
Manganese	0.500	0.5190	104							
Nickel	0.500	0.5070	101							
Potassium	5.00	5.3100	106							
Selenium	0.500	0.5030	101							
Silver	0.500	0.5060	101							
Sodium	10.0	10.4000	104							
Thallium	0.500	0.5090	102							
Vanadium	0.500	0.4980	100							
Zinc	0.500	0.4980	100							

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : TRACE6

Lab Number : L2339907
 Project Number : 2230119
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)							
	Lab ID : R1725079-18			R1725079-20			R1725079-22		R1725079-24		
	Date Analyzed: 08/02/23 13:20			08/02/23 14:13			08/02/23 15:08		08/02/23 16:01		
	True	Found	%R	True	Found	%R	Found	%R	Found	%R	
Aluminum	0.500	0.5130	103	0.5000	0.516	103	0.514	103	0.509	102	
Antimony	0.500	0.4910	98	0.5000	0.491	98	0.489	98	0.491	98	
Arsenic	0.500	0.5010	100	0.5000	0.514	103	0.522	104	0.534	107	
Barium	0.500	0.5030	101	0.5000	0.492	98	0.480	96	0.474	95	
Beryllium	0.500	0.5070	101	0.5000	0.513	103	0.510	102	0.512	102	
Cadmium	0.500	0.4920	98	0.5000	0.482	96	0.475	95	0.475	95	
Calcium	0.500	0.5180	104	0.5000	0.508	102	0.505	101	0.508	102	
Chromium	0.500	0.5080	102	0.5000	0.518	104	0.518	104	0.526	105	
Cobalt	0.500	0.4980	100	0.5000	0.498	100	0.497	99	0.499	100	
Copper	0.500	0.5070	101	0.5000	0.509	102	0.502	100	0.503	101	
Iron	0.500	0.5180	104	0.5000	0.521	104	0.493	99	0.510	102	
Lead	0.500	0.5000	100	0.5000	0.502	100	0.505	101	0.506	101	
Magnesium	0.500	0.5080	102	0.5000	0.511	102	0.504	101	0.510	102	
Manganese	0.500	0.5160	103	0.5000	0.516	103	0.512	102	0.512	102	
Nickel	0.500	0.5000	100	0.5000	0.493	99	0.487	97	0.484	97	
Potassium	5.00	5.3200	106	5.0000	5.24	105	5.18	104	5.14	103	
Selenium	0.500	0.5070	101	0.5000	0.512	102	0.504	101	0.507	101	
Silver	0.500	0.5030	101	0.5000	0.507	101	0.497	99	0.496	99	
Sodium	10.0	10.2000	102	10.0000	10.2	102	10.2	102	10.0	100	
Thallium	0.500	0.5080	102	0.5000	0.514	103	0.520	104	0.526	105	
Vanadium	0.500	0.4960	99	0.5000	0.503	101	0.501	100	0.504	101	
Zinc	0.500	0.4960	99	0.5000	0.495	99	0.496	99	0.498	100	

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : TRACE6

Lab Number : L2339907
 Project Number : 2230119
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)							
	Lab ID :			R1725079-26			R1725079-28				
	Date Analyzed:	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum				0.5000	0.515	103	0.520	104			
Antimony				0.5000	0.488	98	0.492	98			
Arsenic				0.5000	0.529	106	0.542	108			
Barium				0.5000	0.478	96	0.467	93			
Beryllium				0.5000	0.509	102	0.516	103			
Cadmium				0.5000	0.476	95	0.472	94			
Calcium				0.5000	0.503	101	0.519	104			
Chromium				0.5000	0.520	104	0.533	107			
Cobalt				0.5000	0.499	100	0.501	100			
Copper				0.5000	0.503	101	0.506	101			
Iron				0.5000	0.500	100	0.497	99			
Lead				0.5000	0.508	102	0.510	102			
Magnesium				0.5000	0.502	100	0.514	103			
Manganese				0.5000	0.513	103	0.513	103			
Nickel				0.5000	0.487	97	0.483	97			
Potassium				5.0000	5.12	102	5.08	102			
Selenium				0.5000	0.508	102	0.508	102			
Silver				0.5000	0.498	100	0.499	100			
Sodium				10.0000	10.0	100	9.99	100			
Thallium				0.5000	0.523	105	0.532	106			
Vanadium				0.5000	0.503	101	0.511	102			
Zinc				0.5000	0.497	99	0.499	100			

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 3 Blanks

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : TRACE6

Lab Number : L2339907
 Project Number : 2230119

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank			
	mg/l	Q	mg/l	Q	mg/l	Q	mg/kg	Q		
	0.0270	U	0.0270	U	0.0270	U	0.0270	U	1.08	U
Aluminum	0.0270	U	0.0270	U	0.0270	U	0.0270	U	1.08	U
Antimony	0.00380	U	0.00380	U	0.00380	U	0.00380	U	0.152	U
Arsenic	0.00286	J	0.00208	U	0.00208	U	0.00208	U	0.097	J
Barium	0.00174	U	0.00174	U	0.00174	U	0.00174	U	0.070	U
Beryllium	0.000330	U	0.000330	U	0.000330	U	0.000330	U	0.013	U
Cadmium	0.000980	U	0.000980	U	0.000980	U	0.000980	U	0.039	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	1.40	U
Chromium	0.000960	U	0.000960	U	0.000960	U	0.000960	U	0.038	U
Cobalt	0.00166	U	0.00166	U	0.00166	U	0.00166	U	0.066	U
Copper	0.00258	U	0.00258	U	0.00258	U	0.00258	U	0.103	U
Iron	0.00903	U	0.00903	U	0.00903	U	0.0121	J	0.361	U
Lead	0.00268	U	0.00268	U	0.00268	U	0.00268	U	0.107	U
Magnesium	0.0154	U	0.0154	U	0.0154	U	0.0154	U	0.616	U
Manganese	0.00159	U	0.00159	U	0.00159	U	0.00159	U	0.064	U
Nickel	0.00242	U	0.00242	U	0.00242	U	0.00242	U	0.097	U
Potassium	0.144	U	0.144	U	0.144	U	0.144	U	5.76	U
Selenium	0.00258	U	0.00258	U	0.00258	U	0.00258	U	0.103	U
Silver	0.00283	U	0.00283	U	0.00283	U	0.00283	U	0.113	U
Sodium	0.0315	U	0.0315	U	0.0630	J	0.0315	U	8.13	J
Thallium	0.00315	U	0.00315	U	0.00315	U	0.00315	U	0.126	U
Vanadium	0.00203	U	0.00203	U	0.00203	U	0.00203	U	0.081	U
Zinc	0.00293	U	0.00293	U	0.00293	U	0.00293	U	0.117	U



Form 3 Blanks

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : TRACE6

Lab Number : L2339907
 Project Number : 2230119

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	Q	
Aluminum	0.0270	U	0.0270	U	0.0270	U	0.0270	U
Antimony	0.00380	U	0.00380	U	0.00380	U	0.00380	U
Arsenic	0.00208	U	0.00208	U	0.00208	U	0.00281	J
Barium	0.00174	U	0.00174	U	0.00174	U	0.00174	U
Beryllium	0.000330	U	0.000330	U	0.000330	U	0.000330	U
Cadmium	0.000980	U	0.000980	U	0.000980	U	0.000980	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.000960	U	0.000960	U	0.000960	U	0.000960	U
Cobalt	0.00166	U	0.00166	U	0.00166	U	0.00166	U
Copper	0.00258	U	0.00258	U	0.00258	U	0.00258	U
Iron	0.00903	U	0.00903	U	0.00903	U	0.0205	J
Lead	0.00268	U	0.00268	U	0.00268	U	0.00268	U
Magnesium	0.0154	U	0.0154	U	0.0154	U	0.0154	U
Manganese	0.00159	U	0.00159	U	0.00159	U	0.00181	J
Nickel	0.00242	U	0.00242	U	0.00242	U	0.00242	U
Potassium	0.144	U	0.144	U	0.144	U	0.144	U
Selenium	0.00258	U	0.00258	U	0.00258	U	0.00258	U
Silver	0.00283	U	0.00283	U	0.00283	U	0.00283	U
Sodium	0.0315	U	0.0315	U	0.0315	U	0.0315	U
Thallium	0.00315	U	0.00315	U	0.00315	U	0.00315	U
Vanadium	0.00203	U	0.00203	U	0.00203	U	0.00203	U
Zinc	0.00293	U	0.00293	U	0.00293	U	0.00293	U



Form 3 Blanks

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : TRACE6

Lab Number : L2339907
 Project Number : 2230119

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum	0.0270	U	0.0270	U	0.0270	U	0.0270	U
Antimony	0.00380	U	0.00380	U	0.00380	U	0.00380	U
Arsenic	0.00236	J	0.00208	U	0.00208	U	0.00222	J
Barium	0.00174	U	0.00174	U	0.00174	U	0.00174	U
Beryllium	0.000330	U	0.000330	U	0.000330	U	0.000330	U
Cadmium	0.000980	U	0.000980	U	0.000980	U	0.000980	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.000960	U	0.000960	U	0.000960	U	0.000960	U
Cobalt	0.00166	U	0.00166	U	0.00166	U	0.00166	U
Copper	0.00258	U	0.00258	U	0.00258	U	0.00258	U
Iron	0.00903	U	0.00903	U	0.00903	U	0.00955	J
Lead	0.00268	U	0.00268	U	0.00268	U	0.00268	U
Magnesium	0.0154	U	0.0154	U	0.0154	U	0.0154	U
Manganese	0.00159	U	0.00159	U	0.00159	U	0.00159	U
Nickel	0.00242	U	0.00242	U	0.00242	U	0.00242	U
Potassium	0.144	U	0.144	U	0.144	U	0.144	U
Selenium	0.00418	J	0.00258	U	0.00325	J	0.00258	U
Silver	0.00283	U	0.00283	U	0.00283	U	0.00283	U
Sodium	0.0315	U	0.0950	J	0.0315	U	0.0315	U
Thallium	0.00315	U	0.00315	U	0.00315	U	0.00315	U
Vanadium	0.00203	U	0.00203	U	0.00203	U	0.00203	U
Zinc	0.00293	U	0.00293	U	0.00293	U	0.00293	U



Form 3 Blanks

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : TRACE6

Lab Number : L2339907
 Project Number : 2230119

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank
	mg/l	Q	mg/l	Q	mg/l	Q	Q
Aluminum	0.0270	U	0.0270	U			
Antimony	0.00380	U	0.00380	U			
Arsenic	0.00324	J	0.00208	U			
Barium	0.00174	U	0.00174	U			
Beryllium	0.000330	U	0.000330	U			
Cadmium	0.000980	U	0.000980	U			
Calcium	0.0350	U	0.0350	U			
Chromium	0.000960	U	0.000960	U			
Cobalt	0.00166	U	0.00166	U			
Copper	0.00258	U	0.00258	U			
Iron	0.00903	U	0.00903	U			
Lead	0.00268	U	0.00268	U			
Magnesium	0.0154	U	0.0154	U			
Manganese	0.00159	U	0.00159	U			
Nickel	0.00242	U	0.00242	U			
Potassium	0.144	U	0.144	U			
Selenium	0.00306	J	0.00258	U			
Silver	0.00283	U	0.00283	U			
Sodium	0.0315	U	0.0351	J			
Thallium	0.00315	U	0.00315	U			
Vanadium	0.00203	U	0.00203	U			
Zinc	0.00293	U	0.00293	U			



Form 4a Interference Check Sample

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : TRACE6

Lab Number : L2339907
 Project Number : 2230119
 Concentration Units : mg/l

Analyte	True		Initial Found		Final Found					
	Sol.	Sol.	Sol.		Sol.		Sol.			
	A	AB	A	%R	AB	%R	A	%R	AB	%R
Aluminum	250		252.	101						
Antimony			0.00854							
Arsenic			-0.00339							
Barium			0.00565							
Beryllium			-0.000244							
Cadmium			-0.00155							
Calcium	250		248.	99						
Chromium			-0.000272							
Cobalt			-0.00000939							
Copper			-0.00710							
Iron	100		97.4	97						
Lead			0.00910							
Magnesium	250		253.	101						
Manganese			0.000670							
Nickel			0.00259							
Potassium			0.110							
Selenium			-0.00728							
Silver			0.000112							
Sodium			0.103							
Thallium			-0.00329							
Vanadium			-0.00175							
Zinc			0.00107							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%



Form 5a Matrix Spike

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Client Sample ID : TP-02-3-4FT
 Lab Sample ID : L2339907-02
 Matrix Spike : WG1802988-3
 Matrix Spike Dup : WG1802988-4

Lab Number : L2339907
 Project Number : 2230119
 Matrix : SOLID
 MS Analysis Date : 08/02/23 10:04
 MSD Analysis Date : 08/02/23 10:09

Parameter	Sample Conc. (mg/kg)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R			
Aluminum, Total	4380	172	4530	87	174	5130	432 Q	12	75-125	20
Antimony, Total	0.611J	43	31.1	72 Q	43.4	28.5	66 Q	9	75-125	20
Arsenic, Total	2.90	10.3	12.6	94	10.4	13.7	104	8	75-125	20
Barium, Total	30.5	172	198	97	174	209	103	5	75-125	20
Beryllium, Total	0.336J	4.3	4.72	110	4.34	5.02	116	6	75-125	20
Cadmium, Total	ND	4.56	4.54	99	4.6	4.68	102	3	75-125	20
Calcium, Total	2280	861	2960	79	868	3140	99	6	75-125	20
Chromium, Total	6.76	17.2	23.2	95	17.4	24.1	100	4	75-125	20
Cobalt, Total	3.41	43	44.2	95	43.4	46.0	98	4	75-125	20
Copper, Total	7.86	21.5	28.6	96	21.7	30.1	102	5	75-125	20
Iron, Total	12000	86.1	11800	0 Q	86.8	12900	1040 Q	9	75-125	20
Lead, Total	17.2	45.6	49.9	72 Q	46	54.2	80	8	75-125	20
Magnesium, Total	1660	861	2630	113	868	2840	136 Q	8	75-125	20
Manganese, Total	359	43	364	12 Q	43.4	485	290 Q	29 Q	75-125	20
Nickel, Total	7.58	43	48.0	94	43.4	50.1	98	4	75-125	20
Potassium, Total	379	861	1240	100	868	1320	108	6	75-125	20
Selenium, Total	ND	10.3	9.73	94	10.4	10.0	96	3	75-125	20
Silver, Total	ND	4.3	3.95	92	4.34	4.03	93	2	75-125	20
Sodium, Total	76.9J	861	935	109	868	983	113	5	75-125	20
Thallium, Total	ND	10.3	9.83	95	10.4	10.2	98	4	75-125	20
Vanadium, Total	13.3	43	54.5	96	43.4	56.9	100	4	75-125	20
Zinc, Total	47.0	43	72.8	60 Q	43.4	84.4	86	15	75-125	20



Form 5b Post Digest Spike Recovery

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Client Sample ID : TP-02-3-4FT	Matrix : SOIL
Lab Sample ID : L2339907-02	
Post Spike : WG1802988-5	PS Analysis Date : 08/02/23 10:13

Parameter	Sample Conc. (mg/kg)	Post Spike Sample		%R	Recovery Limits
		Spike Added (mg/kg)	Spike Conc. (mg/kg)		
Antimony, Total	0.611J	43.5	39.8	91	75-125
Lead, Total	17.2	46.2	60.2	93	75-125
Magnesium, Total	1660	871	2460	92	75-125
Zinc, Total	47.0	43.5	85.6	89	75-125



Form 7 Laboratory Control Sample

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Client Sample ID : NA
 Lab Sample ID : WG1802988-2
 Dup Sample ID :

Lab Number : L2339907
 Project Number : 2230119
 Matrix : SOLID
 LCS Analysis Date : 08/02/23 09:42
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/kg)	Found (mg/kg)	%R	True (mg/kg)	Found (mg/kg)	%R			
Aluminum, Total	8040	6830	85.					48-152	20
Antimony, Total	129.	120.	93.					10-190	20
Arsenic, Total	183.	185.	101.					83-117	20
Barium, Total	297.	300.	101.					82-118	20
Beryllium, Total	78.8	82.1	104.					83-117	20
Cadmium, Total	221.	228.	103.					82-117	20
Calcium, Total	4710	4750	101.					81-118	20
Chromium, Total	200.	205.	102.					82-119	20
Cobalt, Total	97.4	99.9	102.					83-117	20
Copper, Total	136.	144.	106.					84-116	20
Iron, Total	14000	15200	108.					60-140	20
Lead, Total	257.	258.	100.					82-118	20
Magnesium, Total	2290	2180	95.					76-124	20
Manganese, Total	381.	411.	108.					82-118	20
Nickel, Total	169.	176.	104.					82-117	20
Potassium, Total	2030	1940	96.					70-130	20
Selenium, Total	217.	238.	110.					79-121	20
Silver, Total	67.8	70.2	104.					80-120	20
Sodium, Total	1710	1840	107.					74-126	20
Thallium, Total	80.5	83.2	103.					81-119	20
Vanadium, Total	205.	209.	102.					79-121	20
Zinc, Total	224.	228.	102.					80-120	20



Form 8 Serial Dilutions

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Client Sample ID : TP-02-3-4FT
Lab Sample ID : L2339907-02
Serial Dilution ID : WG1802988-6

Lab Number : L2339907
Project Number : 2230119
Matrix : SOIL
Analysis Date : 08/02/23 10:00
Analysis Date : 08/02/23 10:17

Parameter	Initial Sample Result (mg/kg)	Serial Dilution Result (mg/kg)	% Difference	%D Limit
Aluminum, Total	4380	4520	3	20
Barium, Total	30.5	31.1	2	20
Calcium, Total	2280	2360	4	20
Iron, Total	12000	12200	2	20
Magnesium, Total	1660	1720	4	20
Manganese, Total	359	372	4	20



U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	___
Aluminum	396.15	0.0000000	0.0000020	-0.0000310	-0.0000090	
Antimony	206.83	-0.0000020	0.0000040	-0.0000110	-0.0000050	
Arsenic	189.04	0.0000090	-0.0000010	-0.0000700	0.0000000	
Barium	455.40	-0.0000040	-0.0000020	-0.0000110	-0.0000010	
Beryllium	313.40	-0.0000020	-0.0000020	-0.0000050	0.0000000	
Cadmium	214.44	0.0000000	-0.0000030	0.0000000	-0.0000010	
Calcium	315.89	0.0000780	0.0000000	-0.0000170	0.0000710	
Chromium	267.72	0.0000050	-0.0000020	0.0000120	0.0000000	
Cobalt	228.62	-0.0000120	-0.0000060	-0.0000250	-0.0000020	
Copper	324.75	-0.0000030	-0.0000020	-0.0000040	0.0000110	
Iron	259.94	0.0000180	-0.0000120	0.0000000	-0.0000030	
Lead	220.35	0.0001100	-0.0000010	0.0000180	-0.0000010	
Magnesium	279.08	-0.0000540	-0.0000280	0.0000190	0.0000000	
Manganese	257.61	-0.0000030	-0.0000020	-0.0000080	0.0000020	
Mercury						
Nickel	231.60	-0.0000130	-0.0000050	-0.0000240	-0.0000020	
Potassium	766.49	-0.0012590	-0.0007040	-0.0028490	-0.0002350	
Selenium	196.09	-0.0000200	0.0000000	-0.0000290	-0.0000010	
Silver	328.07	-0.0000040	-0.0000020	-0.0000090	-0.0000010	
Sodium	589.59	-0.0006160	-0.0005220	-0.0020960	-0.0001600	
Thallium	190.86	-0.0000060	-0.0000040	-0.0000050	-0.0000010	
Vanadium	292.40	-0.0000050	-0.0000030	0.0000100	-0.0000020	
Zinc	206.20	0.0002750	0.0000030	-0.0007990	-0.0000040	

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	-0.0022950	-0.0018570
Antimony	206.83	0.0000000	0.0000000	0.0000000	-0.0003900	-0.0000120
Arsenic	189.04	0.0000000	0.0000000	0.0000210	-0.0001780	-0.0001730
Barium	455.40	0.0000000	0.0000000	0.0000000	-0.0002050	-0.0002030
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000860
Cadmium	214.44	0.0000000	0.0000000	0.0000000	-0.0002090	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	-0.0020880	-0.0018790
Chromium	267.72	0.0000000	0.0000000	0.0000000	-0.0002010	-0.0003100
Cobalt	228.62	0.0000000	0.0000000	0.0000000	-0.0004810	-0.0004970
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0002330	-0.0002260
Iron	259.94	0.0000000	0.0000000	0.0000000	-0.0012310	-0.0009570
Lead	220.35	0.0000000	0.0000000	0.0000000	-0.0001700	-0.0001850
Magnesium	279.08	0.0000000	0.0000000	0.0000000	-0.0022440	-0.0017830
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001950	-0.0002020
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	-0.0005490	-0.0005200
Potassium	766.49	0.0000000	0.0000000	0.0000000	-0.0522980	-0.0517110
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000060	0.0000030
Silver	328.07	0.0000000	0.0000000	0.0000000	-0.0001740	-0.0001560
Sodium	589.59	0.0000000	0.0000000	0.0000000	-0.0417330	-0.0407400
Thallium	190.86	0.0000000	0.0000000	0.0000000	-0.0002650	-0.0002240
Vanadium	292.40	0.0000000	0.0000000	0.0000000	-0.0002090	-0.0002040
Zinc	206.20	0.0000000	0.0000000	0.0000000	-0.0000320	-0.0009250

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Co	Cu	Pb	Mn
Aluminum	396.15	-0.0020320	-0.0005350	-0.0005960	0.0000000	-0.0003930
Antimony	206.83	0.0049920	-0.0001600	-0.0001410	0.0000000	-0.0001780
Arsenic	189.04	0.0002670	-0.0001290	-0.0000570	0.0000000	-0.0000030
Barium	455.40	-0.0002000	-0.0000500	-0.0000660	0.0000000	-0.0000350
Beryllium	313.40	-0.0000900	-0.0000220	-0.0000300	0.0000000	-0.0000110
Cadmium	214.44	-0.0000290	-0.0000520	-0.0000680	0.0000000	-0.0000270
Calcium	315.89	-0.0020720	0.0009940	-0.0005720	0.0000000	-0.0000920
Chromium	267.72	0.0000000	-0.0000480	-0.0000690	0.0000000	0.0001140
Cobalt	228.62	-0.0005870	0.0000000	-0.0001660	0.0000000	-0.0000740
Copper	324.75	-0.0002130	-0.0000490	0.0000000	0.0000000	0.0000300
Iron	259.94	-0.0010370	-0.0002940	-0.0003760	0.0000000	-0.0001890
Lead	220.35	-0.0001960	-0.0003260	0.0002710	0.0000000	0.0000640
Magnesium	279.08	-0.0024620	-0.0005640	-0.0008730	0.0000000	-0.0069760
Manganese	257.61	-0.0002060	-0.0000480	-0.0000750	0.0000000	0.0000000
Mercury						
Nickel	231.60	-0.0005230	-0.0002210	-0.0001810	0.0000000	-0.0000730
Potassium	766.49	-0.0512430	-0.0126240	-0.0178480	0.0000000	-0.0089880
Selenium	196.09	-0.0000520	0.0000530	-0.0000240	0.0000000	0.0003780
Silver	328.07	-0.0001430	-0.0000370	-0.0000450	0.0000000	0.0001940
Sodium	589.59	-0.0407180	-0.0097580	-0.0137660	0.0000000	-0.0070470
Thallium	190.86	-0.0000390	0.0020440	-0.0000840	-0.0000200	0.0003990
Vanadium	292.40	-0.0002210	-0.0000500	-0.0000650	0.0000000	0.0001060
Zinc	206.20	-0.0012900	0.0000070	0.0003430	0.0001200	-0.0001520

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Ni	K	Se	Ag	Na
Aluminum	396.15	0.000000	0.000000	0.000000	0.000000	0.000000
Antimony	206.83	0.000000	0.000000	0.000000	0.000000	0.000000
Arsenic	189.04	0.000000	0.000000	0.000000	0.000000	0.000000
Barium	455.40	0.000000	0.000000	0.000000	0.000000	0.000000
Beryllium	313.40	0.000000	0.000000	0.000000	0.000000	0.000000
Cadmium	214.44	0.000000	0.000000	0.000000	0.000000	0.000000
Calcium	315.89	0.000000	0.000000	0.000000	0.000000	0.000000
Chromium	267.72	0.000000	0.000000	0.000000	0.000000	0.000000
Cobalt	228.62	0.000000	0.000000	0.000000	0.000000	0.000000
Copper	324.75	0.000000	0.000000	0.000000	0.000000	0.000000
Iron	259.94	0.000000	0.000000	0.000000	0.000000	0.000000
Lead	220.35	0.000000	0.000000	0.000000	0.000000	0.000000
Magnesium	279.08	0.000000	0.000000	0.000000	0.000000	0.000000
Manganese	257.61	0.000000	0.000000	0.000000	0.000000	0.000000
Mercury						
Nickel	231.60	0.000000	0.000000	0.000000	0.000000	0.000000
Potassium	766.49	0.000000	0.000000	0.000000	0.000000	0.000000
Selenium	196.09	0.000000	0.000000	0.000000	0.000000	0.000000
Silver	328.07	0.000000	0.000000	0.000000	0.000000	0.000000
Sodium	589.59	0.000000	0.000000	0.000000	0.000000	0.000000
Thallium	190.86	0.000000	0.000000	0.000000	0.000000	0.000000
Vanadium	292.40	0.000000	0.000000	0.000000	0.000000	0.000000
Zinc	206.20	0.000000	0.000000	0.000000	0.000000	0.000000

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	0.0001500	0.0000000	-0.0004550	0.0000000	0.0038670
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000380	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Lead	220.35	0.0001750	0.0000000	0.0002100	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	-0.0000350	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000100	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0017890	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	0.0000000	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	0.0000000	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0000000	0.0000000		
Vanadium	292.40	0.0011610	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

EPA 200.7, EPA 6010D		Linear Dynamic Range					
		All values are in mg/L and are 90% of the established LDR concentration.					
Instrument ID:		Trace 4	Trace 5	Trace 6	Trace 7	Trace 8	Trace 9
2023 Complete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ag	Silver	36	27	9	13	90	45
Al	Aluminum	900	540	450	900	900	900
As	Arsenic	90	54	90	72	180	90
B	Boron	90	90	9	45	90	54
Ba	Barium	90	27	18	13	135	27
Be	Beryllium	27	36	9	9	11	31
Ca	Calcium	450	900	675	900	900	900
Cd	Cadmium	11	9	9	11	27	18
Co	Cobalt	90	63	45	22	135	90
Cr	Chromium	45	63	9	45	157	90
Cu	Copper	90	54	45	45	90	67
Fe	Iron	630	900	450	450	540	540
K	Potassium	900	900	675	720	900	900
Mg	Magnesium	450	900	360	900	900	900
Mn	Manganese	90	31	90	67	90	90
Mo	Molybdenum	45	36	9	22	67	45
Na	Sodium	675	900	450	405	630	900
Ni	Nickel	90	45	45	22	135	90
Pb	Lead	180	180	90	90	225	90
S	Sulfur	-	90	-	-	-	-
Sb	Antimony	22	45	45	4.5	90	45
Se	Selenium	27	27	45	22	15	45
Si	Silica	45	90	22	22	90	45
Sn	Tin	45	45	13	22	72	45
Sr	Strontium	45	45	9	9	67	45
Ti	Titanium	45	90	9	90	72	45
Tl	Thallium	45	90	45	22	135	45
V	Vanadium	90	90	90	90	112	45
Zn	Zinc	45	27	45	22	63	22

Form 12 Preparation Log

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Matrix : SOIL

Lab Number : L2339907
Project Number : 2230119
Prep Method : EPA 3050B

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2339907-02	07/13/23 23:15	1.29	-
L2339907-03	07/13/23 23:15	1.29	-
L2339907-04	07/13/23 23:15	1.30	-
L2339907-05	07/13/23 23:15	1.30	-
L2339907-06	07/13/23 23:15	1.28	-
L2339907-07	07/13/23 23:15	1.30	-
L2339907-09	07/13/23 23:15	1.28	-
WG1802988-1	07/13/23 23:15	1.25	-
WG1802988-2	07/13/23 23:15	0.39	-
WG1802988-3	07/13/23 23:15	1.31	-
WG1802988-4	07/13/23 23:15	1.30	-
WG1802988-5	07/13/23 23:15	1.29	-
WG1802988-6	07/13/23 23:15	1.29	-



Form 13 Analysis Run Log

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : TRACE6
 Start Date : 08/02/23 07:10

Lab Number : L2339907
 Project Number : 2230119
 Analysis Method : 1,6010D
 End Date : 08/02/23 17:15

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1725079-1 ICV	1	07:10:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-2 ICB	1	07:15:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-3 ICV	1	07:19:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-4 ICB	1	07:24:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-5 ICSA	1	07:42:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-6 CCV	1	08:20:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-7 CCB	1	08:24:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-8 CCV	1	09:20:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-9 CCB	1	09:25:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1802988-1 BLANK	1	09:38:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1802988-2 LCS	2	09:42:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2339907-02	2	10:00:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1802988-3 MS	2	10:04:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1802988-4 MSD	2	10:09:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1802988-5 PS	2	10:13:26		X										X	X								X	
WG1802988-6 SERDIL	10	10:17:45	X			X		X					X		X	X								
R1725079-10 CCV	1	10:22:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-11 CCB	1	10:26:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2339907-03	2	11:13:10	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X
L2339907-04	2	11:17:30	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X
L2339907-05	2	11:27:56	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X
L2339907-06	2	11:32:17	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X
L2339907-07	2	11:36:41	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X
L2339907-09	2	11:41:04	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X
R1725079-12 CCV	1	11:45:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-13 CCB	1	11:49:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-14 CCV	1	12:12:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Form 13 Analysis Run Log

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : TRACE6
 Start Date : 08/02/23 07:10

Lab Number : L2339907
 Project Number : 2230119
 Analysis Method : 1,6010D
 End Date : 08/02/23 17:15

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1725079-15 CCB	1	12:16:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-16 ICV	1	13:11:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-17 ICB	1	13:15:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-18 ICV	1	13:20:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-19 ICB	1	13:24:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-20 CCV	1	14:13:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-21 CCB	1	14:18:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-22 CCV	1	15:08:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-23 CCB	1	15:12:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2339907-03	2	15:40:06											X				X							
L2339907-04	2	15:44:26											X				X							
L2339907-05	2	15:48:48											X				X							
L2339907-06	2	15:53:11											X				X							
R1725079-24 CCV	1	16:01:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-25 CCB	1	16:06:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-26 CCV	1	16:21:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-27 CCB	1	16:25:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2339907-07	2	16:58:14											X				X							
L2339907-09	2	17:02:38											X				X							
R1725079-28 CCV	1	17:11:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1725079-29 CCB	1	17:15:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X





METALS by 200.7, 6010C (WATER)

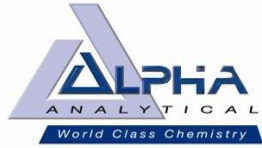
Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum	7429-90-5	0.1	0.0318	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony	7440-36-0	0.05	0.0071	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic	7440-38-2	0.005	0.0019	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium	7440-39-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium	7440-41-7	0.005	0.0009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium	7440-43-9	0.005	0.001	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium	7440-70-2	0.1	0.035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium	7440-47-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt	7440-48-4	0.02	0.0017	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper	7440-50-8	0.01	0.0022	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron	7439-89-6	0.05	0.009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead	7439-92-1	0.01	0.0027	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium	7439-95-4	0.1	0.0153	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese	7439-96-5	0.01	0.0016	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel	7440-02-0	0.025	0.0024	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium	7440-09-7	2.5	0.237	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium	7782-49-2	0.01	0.0035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver	7440-22-4	0.007	0.0028	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium	7440-23-5	2	0.12	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium	7440-28-0	0.02	0.0025	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium	7440-62-2	0.01	0.002	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc	7440-66-6	0.05	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Date Created: 11/04/16
 Created By: Jason Hebert
 File: PM2962-1
 Page: 1

METALS by 6010C (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	4	1.08	mg/kg	48-151		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Antimony, Total	7440-36-0	2	0.152	mg/kg	1-208		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Arsenic, Total	7440-38-2	0.4	0.0832	mg/kg	79-121		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Barium, Total	7440-39-3	0.4	0.0696	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Beryllium, Total	7440-41-7	0.2	0.0132	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cadmium, Total	7440-43-9	0.4	0.0392	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Calcium, Total	7440-70-2	4	1.4	mg/kg	81-119		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Chromium, Total	7440-47-3	0.4	0.0384	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cobalt, Total	7440-48-4	0.8	0.0664	mg/kg	84-115		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Copper, Total	7440-50-8	0.4	0.1032	mg/kg	81-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Iron, Total	7439-89-6	2	0.3612	mg/kg	45-155		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Lead, Total	7439-92-1	2	0.1072	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Magnesium, Total	7439-95-4	4	0.616	mg/kg	76-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Manganese, Total	7439-96-5	0.4	0.0636	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Nickel, Total	7440-02-0	1	0.0968	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Potassium, Total	7440-09-7	100	5.76	mg/kg	71-129		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Selenium, Total	7782-49-2	0.8	0.1032	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Silver, Total	7440-22-4	0.4	0.1132	mg/kg	75-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Sodium, Total	7440-23-5	80	1.26	mg/kg	72-127		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Thallium, Total	7440-28-0	0.8	0.126	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Vanadium, Total	7440-62-2	0.4	0.0812	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Zinc, Total	7440-66-6	2	0.1172	mg/kg	82-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: Blank DMB Trace6
 Analysis started at: 8/2/2023 7:02:01 AM
 Rack: 0
 Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.6 %	2.2 %	-0.4 %	0.1 %	0.0 %	2.9 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	1.3 %	0.2 %	-0.1 %	0.0 %	-1.2 %	0.3 %	-0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	2.2 %	0.4 %	-0.2 %	0.0 %	-0.2 %	0.5 %	2.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.0 %	0.2 %	0.0 %	-0.3 %	-0.2 %	-0.1 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICAL
 Analysis started at: 8/2/2023 7:06:32 AM
 Rack: 0
 Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9994 ppm	23.0107 ppm	0.9995 ppm	1.0004 ppm	0.9217 ppm	0.9224 ppm	9.2042 ppm
Concentration per Run 2	0.9992 ppm	25.8834 ppm	1.0028 ppm	0.9991 ppm	1.0345 ppm	1.0331 ppm	10.3406 ppm
Concentration per Run 3	1.0014 ppm	26.1059 ppm	0.9977 ppm	1.0005 ppm	1.0438 ppm	1.0446 ppm	10.4553 ppm
Concentration RSD	0.1 %	6.9 %	0.3 %	0.1 %	6.8 %	6.7 %	6.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0007 ppm	0.9996 ppm	0.9998 ppm	0.9972 ppm	23.0599 ppm	32.2630 ppm	9.9947 ppm
Concentration per Run 2	1.0000 ppm	1.0005 ppm	1.0001 ppm	1.0006 ppm	25.8198 ppm	36.1687 ppm	9.9946 ppm
Concentration per Run 3	0.9994 ppm	0.9999 ppm	1.0001 ppm	1.0022 ppm	26.1203 ppm	36.5683 ppm	10.0108 ppm
Concentration RSD	0.1 %	0.0 %	0.0 %	0.3 %	6.7 %	6.8 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9233 ppm	0.9974 ppm	23.0949 ppm	1.0000 ppm	0.9980 ppm	0.9982 ppm	1.0003 ppm
Concentration per Run 2	1.0306 ppm	1.0009 ppm	25.7901 ppm	0.9994 ppm	1.0005 ppm	0.9995 ppm	1.0026 ppm
Concentration per Run 3	1.0461 ppm	1.0017 ppm	26.1149 ppm	1.0007 ppm	1.0015 ppm	1.0023 ppm	0.9971 ppm
Concentration RSD	6.7 %	0.2 %	6.6 %	0.1 %	0.2 %	0.2 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0062 ppm	0.9948 ppm	0.9230 ppm	0.9989 ppm	0.9995 ppm	0.9992 ppm	0.9993 ppm
Concentration per Run 2	10.0062 ppm	1.0018 ppm	1.0327 ppm	0.9982 ppm	1.0011 ppm	1.0001 ppm	1.0000 ppm
Concentration per Run 3	9.9876 ppm	1.0034 ppm	1.0443 ppm	1.0028 ppm	0.9994 ppm	1.0007 ppm	1.0007 ppm
Concentration RSD	0.1 %	0.5 %	6.7 %	0.2 %	0.1 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.9431 %	97.2381 %	95.7962 %	103.8871 %	96.4484 %	99.5199 %
Concentration per Run 1	108.9996 %	97.2287 %	95.8449 %	112.4611 %	96.6183 %	99.4278 %
Concentration per Run 2	97.0364 %	97.3741 %	95.9359 %	99.9118 %	96.5205 %	99.6618 %
Concentration per Run 3	96.7932 %	97.1115 %	95.6078 %	99.2883 %	96.2062 %	99.4700 %
Concentration RSD	6.9 %	0.1 %	0.2 %	7.2 %	0.2 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICV
 Analysis started at: 8/2/2023 7:10:46 AM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5145 ppm	0.5300 ppm	0.5040 ppm	0.5018 ppm	0.5079 ppm	0.5133 ppm	0.5183 ppm
Concentration per Run 1	0.5146 ppm	0.4804 ppm	0.5069 ppm	0.5022 ppm	0.4676 ppm	0.4727 ppm	0.4732 ppm
Concentration per Run 2	0.5144 ppm	0.5648 ppm	0.5035 ppm	0.5016 ppm	0.5300 ppm	0.5359 ppm	0.5411 ppm
Concentration per Run 3	0.5143 ppm	0.5446 ppm	0.5017 ppm	0.5018 ppm	0.5261 ppm	0.5314 ppm	0.5406 ppm
Recovery Percentage 1	102.891 %	105.992 %	100.805 %	100.368 %	101.580 %	102.667 %	103.658 %
Concentration RSD	0.0 %	8.3 %	0.5 %	0.1 %	6.9 %	6.9 %	7.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5014 ppm	0.5079 ppm	0.5169 ppm	0.5171 ppm	0.5245 ppm	5.4602 ppm	0.5121 ppm
Concentration per Run 1	0.5017 ppm	0.5084 ppm	0.5171 ppm	0.5173 ppm	0.4803 ppm	5.0439 ppm	0.5059 ppm
Concentration per Run 2	0.5013 ppm	0.5080 ppm	0.5178 ppm	0.5168 ppm	0.5503 ppm	5.7544 ppm	0.5171 ppm
Concentration per Run 3	0.5011 ppm	0.5074 ppm	0.5158 ppm	0.5173 ppm	0.5429 ppm	5.5822 ppm	0.5135 ppm
Recovery Percentage 1	100.274 %	101.583 %	103.374 %	103.426 %	104.896 %	109.204 %	102.430 %
Concentration RSD	0.1 %	0.1 %	0.2 %	0.1 %	7.3 %	6.8 %	1.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5208 ppm	0.4934 ppm	10.3542 ppm	0.5097 ppm	0.5067 ppm	0.4994 ppm	0.5131 ppm
Concentration per Run 1	0.4801 ppm	0.4920 ppm	9.5688 ppm	0.5099 ppm	0.5069 ppm	0.4957 ppm	0.5125 ppm
Concentration per Run 2	0.5424 ppm	0.4936 ppm	10.8012 ppm	0.5091 ppm	0.5054 ppm	0.4998 ppm	0.5153 ppm
Concentration per Run 3	0.5399 ppm	0.4947 ppm	10.6926 ppm	0.5101 ppm	0.5079 ppm	0.5025 ppm	0.5115 ppm
Recovery Percentage 1	104.163 %	98.682 %	103.542 %	101.944 %	101.349 %	99.871 %	102.618 %
Concentration RSD	6.8 %	0.3 %	6.6 %	0.1 %	0.2 %	0.7 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2494 ppm	0.5030 ppm	0.5071 ppm	0.5028 ppm	0.5133 ppm	0.5056 ppm	0.5048 ppm
Concentration per Run 1	5.2584 ppm	0.5016 ppm	0.4670 ppm	0.5032 ppm	0.5131 ppm	0.5066 ppm	0.5048 ppm
Concentration per Run 2	5.2427 ppm	0.5031 ppm	0.5287 ppm	0.5031 ppm	0.5143 ppm	0.5049 ppm	0.5047 ppm
Concentration per Run 3	5.2471 ppm	0.5043 ppm	0.5258 ppm	0.5019 ppm	0.5125 ppm	0.5052 ppm	0.5050 ppm
Recovery Percentage 1	104.989 %	100.594 %	101.428 %	100.552 %	102.661 %	101.116 %	100.969 %
Concentration RSD	0.2 %	0.3 %	6.9 %	0.1 %	0.2 %	0.2 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.5411 %	100.3620 %	98.6061 %	103.0038 %	100.5933 %	101.6744 %
Concentration per Run 1	108.9305 %	100.6369 %	98.7397 %	111.0505 %	100.6625 %	101.9580 %
Concentration per Run 2	95.5646 %	100.3085 %	98.8460 %	98.3603 %	100.8740 %	101.5283 %
Concentration per Run 3	97.1281 %	100.1406 %	98.2327 %	99.6006 %	100.2434 %	101.5369 %
Recovery Percentage 1						
Concentration RSD	7.3 %	0.3 %	0.3 %	6.8 %	0.3 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICB
 Analysis started at: 8/2/2023 7:15:06 AM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0115 ppm	0.0029 ppm	0.0010 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	-0.0010 ppm	-0.0252 ppm	0.0022 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0012 ppm
Concentration per Run 2	-0.0001 ppm	-0.0192 ppm	0.0041 ppm	0.0012 ppm	0.0004 ppm	0.0002 ppm	-0.0047 ppm
Concentration per Run 3	0.0004 ppm	0.0099 ppm	0.0023 ppm	0.0008 ppm	0.0001 ppm	0.0001 ppm	0.0030 ppm
Recovery Percentage 1	-3.203 %	-11.485 %	57.306 %	3.222 %	1.713 %	1.446 %	-0.145 %
Concentration RSD	310.9 %	163.6 %	37.0 %	23.5 %	112.5 %	141.8 %	2,767.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0002 ppm	0.0004 ppm	-0.0005 ppm	-0.0015 ppm	0.0230 ppm	-0.0027 ppm
Concentration per Run 1	0.0002 ppm	0.0001 ppm	0.0006 ppm	-0.0004 ppm	-0.0011 ppm	0.0722 ppm	-0.0037 ppm
Concentration per Run 2	0.0003 ppm	0.0004 ppm	0.0004 ppm	-0.0002 ppm	-0.0002 ppm	-0.0227 ppm	-0.0015 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	0.0002 ppm	-0.0009 ppm	-0.0033 ppm	0.0194 ppm	-0.0030 ppm
Recovery Percentage 1	5.904 %	1.195 %	3.836 %	-4.569 %	-3.010 %	0.918 %	-2.724 %
Concentration RSD	23.8 %	60.0 %	53.0 %	80.6 %	105.6 %	207.2 %	42.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0017 ppm	0.0027 ppm	0.0005 ppm	0.0000 ppm	0.0013 ppm	-0.0013 ppm
Concentration per Run 1	-0.0001 ppm	0.0021 ppm	0.0034 ppm	0.0005 ppm	-0.0010 ppm	0.0026 ppm	-0.0013 ppm
Concentration per Run 2	0.0000 ppm	0.0015 ppm	-0.0177 ppm	0.0004 ppm	0.0001 ppm	0.0013 ppm	-0.0013 ppm
Concentration per Run 3	0.0006 ppm	0.0015 ppm	0.0222 ppm	0.0006 ppm	0.0009 ppm	-0.0001 ppm	-0.0014 ppm
Recovery Percentage 1	1.566 %	3.380 %	0.133 %	1.941 %	-0.022 %	2.517 %	-13.337 %
Concentration RSD	243.7 %	18.9 %	750.7 %	21.5 %	43,733.9 %	106.2 %	2.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0028 ppm	0.0022 ppm	0.0002 ppm	0.0006 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0025 ppm	0.0024 ppm	0.0002 ppm	0.0009 ppm	-0.0018 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 2	0.0033 ppm	0.0019 ppm	0.0004 ppm	-0.0002 ppm	-0.0003 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 3	0.0025 ppm	0.0024 ppm	0.0001 ppm	0.0010 ppm	0.0018 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	0.553 %	4.472 %	2.151 %	5.982 %	-0.449 %	1.222 %	5.323 %
Concentration RSD	17.7 %	12.2 %	65.6 %	112.8 %	1,975.3 %	111.0 %	35.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.7190 %	101.1927 %	100.9675 %	100.6783 %	100.5080 %	100.9095 %
Concentration per Run 1	103.6076 %	101.4788 %	101.3137 %	103.0964 %	100.8433 %	101.0976 %
Concentration per Run 2	99.0835 %	100.8208 %	100.6667 %	99.1692 %	99.9188 %	100.5699 %
Concentration per Run 3	99.4658 %	101.2784 %	100.9221 %	99.7693 %	100.7619 %	101.0610 %
Recovery Percentage 1						
Concentration RSD	2.5 %	0.3 %	0.3 %	2.1 %	0.5 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICV
 Analysis started at: 8/2/2023 7:19:40 AM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5034 ppm	0.5166 ppm	0.4935 ppm	0.4914 ppm	0.5024 ppm	0.5051 ppm	0.4995 ppm
Concentration per Run 1	0.5031 ppm	0.4825 ppm	0.4905 ppm	0.4907 ppm	0.4728 ppm	0.4752 ppm	0.4662 ppm
Concentration per Run 2	0.5030 ppm	0.5347 ppm	0.4950 ppm	0.4925 ppm	0.5145 ppm	0.5183 ppm	0.5143 ppm
Concentration per Run 3	0.5042 ppm	0.5327 ppm	0.4949 ppm	0.4909 ppm	0.5197 ppm	0.5217 ppm	0.5178 ppm
Recovery Percentage 1	100.686 %	103.329 %	98.693 %	98.279 %	100.472 %	101.015 %	99.892 %
Concentration RSD	0.1 %	5.7 %	0.5 %	0.2 %	5.1 %	5.1 %	5.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4939 ppm	0.5021 ppm	0.5082 ppm	0.5105 ppm	0.5202 ppm	5.3198 ppm	0.5048 ppm
Concentration per Run 1	0.4928 ppm	0.5008 ppm	0.5090 ppm	0.5105 ppm	0.4864 ppm	5.0253 ppm	0.5054 ppm
Concentration per Run 2	0.4951 ppm	0.5035 ppm	0.5082 ppm	0.5096 ppm	0.5342 ppm	5.4818 ppm	0.5042 ppm
Concentration per Run 3	0.4938 ppm	0.5019 ppm	0.5074 ppm	0.5114 ppm	0.5400 ppm	5.4523 ppm	0.5048 ppm
Recovery Percentage 1	98.785 %	100.412 %	101.638 %	102.105 %	104.045 %	106.396 %	100.961 %
Concentration RSD	0.2 %	0.3 %	0.2 %	0.2 %	5.7 %	4.8 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5159 ppm	0.4892 ppm	10.2893 ppm	0.5041 ppm	0.5007 ppm	0.4900 ppm	0.4963 ppm
Concentration per Run 1	0.4855 ppm	0.4873 ppm	9.7188 ppm	0.5029 ppm	0.4981 ppm	0.4876 ppm	0.4950 ppm
Concentration per Run 2	0.5284 ppm	0.4902 ppm	10.5233 ppm	0.5049 ppm	0.5024 ppm	0.4907 ppm	0.4958 ppm
Concentration per Run 3	0.5337 ppm	0.4901 ppm	10.6258 ppm	0.5045 ppm	0.5017 ppm	0.4918 ppm	0.4981 ppm
Recovery Percentage 1	103.176 %	97.841 %	102.893 %	100.821 %	100.145 %	98.004 %	99.259 %
Concentration RSD	5.1 %	0.3 %	4.8 %	0.2 %	0.5 %	0.5 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1668 ppm	0.4941 ppm	0.4959 ppm	0.4939 ppm	0.5050 ppm	0.4977 ppm	0.4958 ppm
Concentration per Run 1	5.1576 ppm	0.4922 ppm	0.4665 ppm	0.4933 ppm	0.5067 ppm	0.4974 ppm	0.4945 ppm
Concentration per Run 2	5.1759 ppm	0.4966 ppm	0.5079 ppm	0.4943 ppm	0.5065 ppm	0.4981 ppm	0.4973 ppm
Concentration per Run 3	5.1668 ppm	0.4937 ppm	0.5131 ppm	0.4942 ppm	0.5018 ppm	0.4974 ppm	0.4957 ppm
Recovery Percentage 1	103.335 %	98.828 %	99.170 %	98.778 %	100.999 %	99.532 %	99.164 %
Concentration RSD	0.2 %	0.4 %	5.1 %	0.1 %	0.5 %	0.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.2179 %	99.4524 %	99.0797 %	103.2425 %	100.5587 %	101.3612 %
Concentration per Run 1	105.5755 %	99.5349 %	98.8085 %	108.5645 %	100.4200 %	101.4407 %
Concentration per Run 2	97.4033 %	99.1406 %	99.0333 %	100.9040 %	100.3755 %	101.1455 %
Concentration per Run 3	97.6750 %	99.6819 %	99.3972 %	100.2591 %	100.8808 %	101.4975 %
Recovery Percentage 1						
Concentration RSD	4.6 %	0.3 %	0.3 %	4.5 %	0.3 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICB
 Analysis started at: 8/2/2023 7:24:00 AM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0040 ppm	0.0012 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	-0.0032 ppm
Concentration per Run 1	-0.0004 ppm	-0.0190 ppm	0.0036 ppm	0.0008 ppm	-0.0001 ppm	-0.0001 ppm	0.0058 ppm
Concentration per Run 2	0.0004 ppm	0.0091 ppm	-0.0012 ppm	0.0010 ppm	0.0006 ppm	0.0001 ppm	-0.0054 ppm
Concentration per Run 3	-0.0001 ppm	-0.0023 ppm	0.0013 ppm	0.0010 ppm	0.0002 ppm	0.0001 ppm	-0.0098 ppm
Recovery Percentage 1	-0.662 %	-4.023 %	24.872 %	3.188 %	2.298 %	0.711 %	-3.158 %
Concentration RSD	854.0 %	351.4 %	194.7 %	13.9 %	150.9 %	346.7 %	254.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0003 ppm	0.0146 ppm	-0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm	-0.0027 ppm	-0.0129 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0003 ppm	-0.0001 ppm	0.0061 ppm	-0.0013 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0007 ppm	-0.0024 ppm	0.0579 ppm	-0.0020 ppm
Recovery Percentage 1	0.482 %	0.720 %	1.279 %	-2.970 %	0.637 %	0.583 %	-1.114 %
Concentration RSD	120.2 %	132.2 %	105.9 %	103.6 %	1,570.8 %	260.4 %	118.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0012 ppm	-0.0089 ppm	0.0002 ppm	0.0004 ppm	0.0008 ppm	-0.0026 ppm
Concentration per Run 1	-0.0002 ppm	0.0015 ppm	-0.0117 ppm	-0.0005 ppm	0.0007 ppm	0.0017 ppm	-0.0013 ppm
Concentration per Run 2	0.0005 ppm	0.0010 ppm	-0.0105 ppm	-0.0001 ppm	-0.0001 ppm	0.0011 ppm	-0.0033 ppm
Concentration per Run 3	-0.0001 ppm	0.0010 ppm	-0.0046 ppm	0.0013 ppm	0.0007 ppm	-0.0005 ppm	-0.0030 ppm
Recovery Percentage 1	0.636 %	2.354 %	-4.447 %	0.917 %	4.288 %	1.559 %	-25.640 %
Concentration RSD	560.4 %	21.9 %	42.5 %	418.3 %	115.6 %	144.8 %	42.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0008 ppm	0.0019 ppm	0.0003 ppm	0.0000 ppm	0.0014 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0013 ppm	0.0019 ppm	0.0004 ppm	0.0004 ppm	0.0018 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0010 ppm	0.0017 ppm	0.0002 ppm	-0.0002 ppm	-0.0007 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 3	0.0002 ppm	0.0020 ppm	0.0003 ppm	-0.0002 ppm	0.0032 ppm	-0.0001 ppm	0.0000 ppm
Recovery Percentage 1	0.166 %	3.731 %	3.007 %	0.363 %	7.221 %	-2.228 %	-0.299 %
Concentration RSD	71.6 %	10.4 %	27.1 %	954.8 %	135.1 %	156.1 %	512.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.5761 %	99.6047 %	100.1171 %	100.4184 %	100.1281 %	98.8906 %
Concentration per Run 1	102.5671 %	98.5880 %	100.1931 %	101.8899 %	100.0635 %	97.7266 %
Concentration per Run 2	97.8387 %	99.5979 %	100.0098 %	98.1614 %	100.1580 %	98.8184 %
Concentration per Run 3	101.3227 %	100.6283 %	100.1483 %	101.2038 %	100.1628 %	100.1269 %
Recovery Percentage 1						
Concentration RSD	2.4 %	1.0 %	0.1 %	2.0 %	0.1 %	1.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: 0.0025
 Analysis started at: 8/2/2023 7:28:35 AM
 Rack: 1
 Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0024 ppm	0.0566 ppm	0.0034 ppm	0.0030 ppm	0.0029 ppm	0.0025 ppm	0.0287 ppm
Concentration per Run 1	0.0021 ppm	0.0544 ppm	0.0040 ppm	0.0037 ppm	0.0029 ppm	0.0025 ppm	0.0373 ppm
Concentration per Run 2	0.0023 ppm	0.0606 ppm	0.0048 ppm	0.0033 ppm	0.0030 ppm	0.0025 ppm	0.0249 ppm
Concentration per Run 3	0.0030 ppm	0.0548 ppm	0.0014 ppm	0.0020 ppm	0.0029 ppm	0.0026 ppm	0.0240 ppm
Recovery Percentage 1			136.798 %			99.902 %	
Concentration RSD	19.5 %	6.1 %	51.5 %	29.2 %	2.1 %	2.1 %	25.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0026 ppm	0.0028 ppm	0.0026 ppm	0.0025 ppm	0.0641 ppm	0.1417 ppm	0.0304 ppm
Concentration per Run 1	0.0026 ppm	0.0029 ppm	0.0027 ppm	0.0023 ppm	0.0604 ppm	0.1517 ppm	0.0325 ppm
Concentration per Run 2	0.0026 ppm	0.0026 ppm	0.0025 ppm	0.0026 ppm	0.0649 ppm	0.1292 ppm	0.0294 ppm
Concentration per Run 3	0.0026 ppm	0.0028 ppm	0.0025 ppm	0.0026 ppm	0.0670 ppm	0.1443 ppm	0.0293 ppm
Recovery Percentage 1	104.674 %			99.009 %			
Concentration RSD	1.5 %	5.8 %	3.7 %	7.1 %	5.2 %	8.1 %	5.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0032 ppm	0.0031 ppm	0.0767 ppm	0.0024 ppm	0.0013 ppm	0.0025 ppm	0.0038 ppm
Concentration per Run 1	0.0035 ppm	0.0031 ppm	0.0707 ppm	0.0020 ppm	0.0011 ppm	0.0019 ppm	-0.0002 ppm
Concentration per Run 2	0.0035 ppm	0.0031 ppm	0.0757 ppm	0.0028 ppm	0.0010 ppm	0.0035 ppm	0.0070 ppm
Concentration per Run 3	0.0024 ppm	0.0032 ppm	0.0836 ppm	0.0023 ppm	0.0017 ppm	0.0022 ppm	0.0045 ppm
Recovery Percentage 1							
Concentration RSD	20.1 %	2.6 %	8.5 %	17.1 %	27.4 %	34.8 %	97.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0221 ppm	0.0037 ppm	0.0029 ppm	0.0021 ppm	0.0025 ppm	0.0022 ppm	0.0028 ppm
Concentration per Run 1	0.0225 ppm	0.0032 ppm	0.0029 ppm	0.0013 ppm	0.0029 ppm	0.0020 ppm	0.0028 ppm
Concentration per Run 2	0.0222 ppm	0.0039 ppm	0.0031 ppm	0.0022 ppm	0.0031 ppm	0.0021 ppm	0.0028 ppm
Concentration per Run 3	0.0216 ppm	0.0039 ppm	0.0029 ppm	0.0029 ppm	0.0015 ppm	0.0027 ppm	0.0027 ppm
Recovery Percentage 1							
Concentration RSD	2.0 %	11.1 %	4.6 %	37.2 %	34.2 %	16.5 %	3.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.9818 %	100.0262 %	99.5301 %	99.6556 %	99.7664 %	99.6744 %
Concentration per Run 1	103.8914 %	99.7361 %	99.7288 %	103.0243 %	99.8724 %	99.2532 %
Concentration per Run 2	98.0395 %	99.8521 %	99.3265 %	97.7863 %	99.6489 %	99.6183 %
Concentration per Run 3	98.0146 %	100.4904 %	99.5350 %	98.1562 %	99.7778 %	100.1516 %
Recovery Percentage 1						
Concentration RSD	3.4 %	0.4 %	0.2 %	2.9 %	0.1 %	0.5 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: IPC
 Analysis started at: 8/2/2023 7:33:04 AM
 Rack: 0
 Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	-0.0054 ppm	0.0007 ppm	-0.0002 ppm	0.0002 ppm	-0.0003 ppm	0.0347 ppm
Concentration per Run 1	0.0002 ppm	-0.0058 ppm	0.0021 ppm	0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0383 ppm
Concentration per Run 2	0.0005 ppm	-0.0018 ppm	0.0018 ppm	-0.0007 ppm	0.0001 ppm	-0.0003 ppm	0.0346 ppm
Concentration per Run 3	0.0002 ppm	-0.0084 ppm	-0.0018 ppm	-0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0311 ppm
Recovery Percentage 1	4.196 %	-5.360 %	14.586 %	-0.742 %	1.882 %	-5.893 %	34.685 %
Concentration RSD	61.8 %	62.4 %	295.4 %	189.6 %	42.1 %	16.0 %	10.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0005 ppm	0.0001 ppm	10.5017 ppm	-0.0018 ppm	-0.0006 ppm	-0.0154 ppm	-0.0141 ppm
Concentration per Run 1	-0.0005 ppm	0.0000 ppm	10.4690 ppm	-0.0016 ppm	-0.0017 ppm	-0.0548 ppm	-0.0129 ppm
Concentration per Run 2	-0.0004 ppm	0.0000 ppm	10.5308 ppm	-0.0018 ppm	0.0019 ppm	0.0225 ppm	-0.0126 ppm
Concentration per Run 3	-0.0005 ppm	0.0003 ppm	10.5052 ppm	-0.0019 ppm	-0.0020 ppm	-0.0138 ppm	-0.0169 ppm
Recovery Percentage 1	-11.624 %	0.500 %	105,016.898 %	-17.790 %	-1.219 %	-0.616 %	-14.136 %
Concentration RSD	6.5 %	170.3 %	0.3 %	7.7 %	364.5 %	251.0 %	17.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	10.8058 ppm	0.0003 ppm	-0.0021 ppm	-0.0005 ppm	0.0008 ppm	0.0045 ppm	0.0028 ppm
Concentration per Run 1	10.4155 ppm	0.0003 ppm	0.0119 ppm	-0.0006 ppm	0.0009 ppm	0.0054 ppm	0.0009 ppm
Concentration per Run 2	11.0092 ppm	0.0003 ppm	-0.0147 ppm	-0.0006 ppm	0.0003 ppm	0.0038 ppm	0.0062 ppm
Concentration per Run 3	10.9928 ppm	0.0002 ppm	-0.0034 ppm	-0.0004 ppm	0.0012 ppm	0.0044 ppm	0.0014 ppm
Recovery Percentage 1	108,058.295 %	0.517 %	-0.103 %	-2.091 %	7.905 %	9.063 %	28.012 %
Concentration RSD	3.1 %	14.8 %	646.1 %	27.2 %	59.8 %	17.3 %	104.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0074 ppm	-0.0004 ppm	0.0004 ppm	-0.0005 ppm	0.0157 ppm	10.4377 ppm	0.0004 ppm
Concentration per Run 1	0.0085 ppm	-0.0007 ppm	0.0004 ppm	0.0000 ppm	0.0164 ppm	10.4244 ppm	0.0005 ppm
Concentration per Run 2	0.0062 ppm	-0.0001 ppm	0.0001 ppm	-0.0014 ppm	0.0147 ppm	10.4661 ppm	0.0003 ppm
Concentration per Run 3	0.0076 ppm	-0.0003 ppm	0.0006 ppm	-0.0003 ppm	0.0160 ppm	10.4227 ppm	0.0004 ppm
Recovery Percentage 1	1.484 %	-0.760 %	3.650 %	-5.483 %	78.302 %	104,377.418 %	8.181 %
Concentration RSD	15.8 %	91.0 %	56.9 %	131.4 %	5.7 %	0.2 %	23.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.0059 %	101.0536 %	100.7572 %	102.5472 %	103.3537 %	102.2599 %
Concentration per Run 1	104.0702 %	101.8715 %	100.4036 %	105.3544 %	103.1288 %	102.8201 %
Concentration per Run 2	99.9202 %	100.3414 %	100.7424 %	101.4315 %	103.3078 %	101.5701 %
Concentration per Run 3	99.0273 %	100.9480 %	101.1255 %	100.8557 %	103.6244 %	102.3896 %
Recovery Percentage 1						
Concentration RSD	2.7 %	0.8 %	0.4 %	2.4 %	0.2 %	0.6 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: 0.05
 Analysis started at: 8/2/2023 7:37:37 AM
 Rack: 1
 Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0520 ppm	0.0352 ppm	0.0521 ppm	0.0504 ppm	0.0524 ppm	0.0513 ppm	0.0565 ppm
Concentration per Run 1	0.0517 ppm	0.0509 ppm	0.0532 ppm	0.0512 ppm	0.0505 ppm	0.0493 ppm	0.0528 ppm
Concentration per Run 2	0.0524 ppm	0.0149 ppm	0.0523 ppm	0.0502 ppm	0.0534 ppm	0.0520 ppm	0.0572 ppm
Concentration per Run 3	0.0520 ppm	0.0397 ppm	0.0509 ppm	0.0497 ppm	0.0533 ppm	0.0527 ppm	0.0596 ppm
Recovery Percentage 1		70.341 %					113.096 %
Concentration RSD	0.7 %	52.3 %	2.2 %	1.5 %	3.2 %	3.5 %	6.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0501 ppm	0.0508 ppm	0.0527 ppm	0.0519 ppm	0.0541 ppm	2.8340 ppm	0.0538 ppm
Concentration per Run 1	0.0501 ppm	0.0507 ppm	0.0526 ppm	0.0520 ppm	0.0512 ppm	2.7307 ppm	0.0537 ppm
Concentration per Run 2	0.0503 ppm	0.0511 ppm	0.0525 ppm	0.0520 ppm	0.0563 ppm	2.8678 ppm	0.0531 ppm
Concentration per Run 3	0.0499 ppm	0.0506 ppm	0.0529 ppm	0.0517 ppm	0.0549 ppm	2.9034 ppm	0.0545 ppm
Recovery Percentage 1					108.295 %	113.359 %	107.531 %
Concentration RSD	0.4 %	0.5 %	0.4 %	0.4 %	4.8 %	3.2 %	1.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0560 ppm	0.0488 ppm	1.0797 ppm	0.0503 ppm	0.0508 ppm	0.0477 ppm	0.0493 ppm
Concentration per Run 1	0.0543 ppm	0.0489 ppm	1.0263 ppm	0.0496 ppm	0.0509 ppm	0.0480 ppm	0.0517 ppm
Concentration per Run 2	0.0569 ppm	0.0489 ppm	1.0860 ppm	0.0507 ppm	0.0502 ppm	0.0465 ppm	0.0459 ppm
Concentration per Run 3	0.0568 ppm	0.0487 ppm	1.1269 ppm	0.0506 ppm	0.0514 ppm	0.0487 ppm	0.0502 ppm
Recovery Percentage 1			107.973 %			95.441 %	
Concentration RSD	2.6 %	0.2 %	4.7 %	1.2 %	1.2 %	2.4 %	6.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5085 ppm	0.0487 ppm	0.0523 ppm	0.0500 ppm	0.0497 ppm	0.0523 ppm	0.0509 ppm
Concentration per Run 1	0.5082 ppm	0.0478 ppm	0.0502 ppm	0.0501 ppm	0.0503 ppm	0.0518 ppm	0.0510 ppm
Concentration per Run 2	0.5105 ppm	0.0495 ppm	0.0532 ppm	0.0498 ppm	0.0494 ppm	0.0521 ppm	0.0509 ppm
Concentration per Run 3	0.5070 ppm	0.0490 ppm	0.0535 ppm	0.0502 ppm	0.0495 ppm	0.0528 ppm	0.0508 ppm
Recovery Percentage 1	101.707 %					0.000 %	101.868 %
Concentration RSD	0.3 %	1.8 %	3.5 %	0.4 %	1.0 %	1.0 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.3673 %	101.2963 %	100.3735 %	103.0316 %	101.7255 %	101.9395 %
Concentration per Run 1	104.7622 %	101.2471 %	100.5875 %	105.9918 %	101.9157 %	101.9029 %
Concentration per Run 2	99.9447 %	101.2882 %	100.1062 %	102.0182 %	101.1836 %	102.0332 %
Concentration per Run 3	99.3949 %	101.3534 %	100.4268 %	101.0848 %	102.0772 %	101.8824 %
Recovery Percentage 1						
Concentration RSD	2.9 %	0.1 %	0.2 %	2.5 %	0.5 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICSA
 Analysis started at: 8/2/2023 7:42:02 AM
 Rack: 0
 Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	252.1462 ppm	-0.0034 ppm	0.0043 ppm	0.0056 ppm	-0.0002 ppm	247.6672 ppm
Concentration per Run 1	0.0002 ppm	231.8458 ppm	-0.0025 ppm	0.0038 ppm	0.0047 ppm	-0.0001 ppm	228.0717 ppm
Concentration per Run 2	0.0000 ppm	260.2816 ppm	-0.0035 ppm	0.0043 ppm	0.0056 ppm	-0.0004 ppm	255.3774 ppm
Concentration per Run 3	0.0002 ppm	264.3112 ppm	-0.0041 ppm	0.0049 ppm	0.0066 ppm	-0.0003 ppm	259.5525 ppm
Recovery Percentage 1	1.604 %	252,146.170 %	-67.813 %	14.466 %	56.464 %	-4.892 %	247,667.206 %
Concentration RSD	107.4 %	7.0 %	23.8 %	12.3 %	16.7 %	67.3 %	6.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0015 ppm	0.0000 ppm	-0.0003 ppm	-0.0071 ppm	97.3574 ppm	0.1096 ppm	252.9509 ppm
Concentration per Run 1	-0.0015 ppm	-0.0002 ppm	-0.0001 ppm	-0.0069 ppm	89.5342 ppm	0.0931 ppm	249.8266 ppm
Concentration per Run 2	-0.0015 ppm	0.0001 ppm	-0.0005 ppm	-0.0072 ppm	100.4699 ppm	0.1097 ppm	257.6554 ppm
Concentration per Run 3	-0.0016 ppm	0.0000 ppm	-0.0002 ppm	-0.0072 ppm	102.0680 ppm	0.1259 ppm	251.3707 ppm
Recovery Percentage 1	-38.740 %	-0.047 %	-2.717 %	-71.004 %	194,714.757 %	4.383 %	252,950.875 %
Concentration RSD	3.0 %	1,514.6 %	70.8 %	2.1 %	7.0 %	15.0 %	1.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0007 ppm	0.0002 ppm	0.1030 ppm	0.0026 ppm	0.0091 ppm	0.0085 ppm	-0.0073 ppm
Concentration per Run 1	0.0005 ppm	-0.0003 ppm	0.0886 ppm	0.0026 ppm	0.0091 ppm	0.0092 ppm	-0.0070 ppm
Concentration per Run 2	0.0007 ppm	0.0001 ppm	0.1140 ppm	0.0028 ppm	0.0096 ppm	0.0079 ppm	-0.0098 ppm
Concentration per Run 3	0.0008 ppm	0.0009 ppm	0.1063 ppm	0.0023 ppm	0.0086 ppm	0.0085 ppm	-0.0050 ppm
Recovery Percentage 1	6.697 %	0.444 %	5.149 %	10.371 %	90.988 %	17.084 %	-72.834 %
Concentration RSD	26.3 %	264.1 %	12.6 %	10.6 %	5.3 %	7.9 %	33.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0112 ppm	0.0024 ppm	0.0006 ppm	0.0030 ppm	-0.0033 ppm	-0.0018 ppm	0.0011 ppm
Concentration per Run 1	0.0112 ppm	0.0031 ppm	0.0005 ppm	0.0025 ppm	-0.0019 ppm	-0.0015 ppm	0.0010 ppm
Concentration per Run 2	0.0116 ppm	0.0026 ppm	0.0007 ppm	0.0034 ppm	-0.0041 ppm	-0.0021 ppm	0.0012 ppm
Concentration per Run 3	0.0108 ppm	0.0016 ppm	0.0005 ppm	0.0030 ppm	-0.0039 ppm	-0.0017 ppm	0.0010 ppm
Recovery Percentage 1	2.236 %	4.846 %	6.059 %	29.659 %	-16.462 %	-17.503 %	21.332 %
Concentration RSD	3.7 %	31.3 %	19.0 %	15.5 %	35.6 %	17.3 %	9.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.8120 %	91.4496 %	91.0976 %	100.3062 %	86.8567 %	94.2153 %
Concentration per Run 1	104.4332 %	91.9955 %	91.6002 %	107.1508 %	87.3015 %	94.8030 %
Concentration per Run 2	94.8930 %	91.2502 %	90.8133 %	97.5938 %	86.5551 %	93.9027 %
Concentration per Run 3	94.1099 %	91.1029 %	90.8794 %	96.1739 %	86.7136 %	93.9401 %
Recovery Percentage 1						
Concentration RSD	5.9 %	0.5 %	0.5 %	6.0 %	0.5 %	0.5 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: 0.005
 Analysis started at: 8/2/2023 7:46:35 AM
 Rack: 1
 Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0049 ppm	0.0153 ppm	0.0065 ppm	0.0054 ppm	0.0050 ppm	0.0047 ppm	0.0330 ppm
Concentration per Run 1	0.0044 ppm	0.0234 ppm	0.0065 ppm	0.0049 ppm	0.0042 ppm	0.0044 ppm	0.0366 ppm
Concentration per Run 2	0.0047 ppm	0.0167 ppm	0.0067 ppm	0.0051 ppm	0.0051 ppm	0.0049 ppm	0.0294 ppm
Concentration per Run 3	0.0057 ppm	0.0059 ppm	0.0062 ppm	0.0061 ppm	0.0056 ppm	0.0048 ppm	0.0328 ppm
Recovery Percentage 1	98.957 %		129.561 %			93.578 %	
Concentration RSD	13.8 %	57.5 %	4.1 %	12.1 %	14.6 %	5.3 %	10.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0049 ppm	0.0048 ppm	0.0055 ppm	0.0045 ppm	0.0186 ppm	0.3199 ppm	0.0185 ppm
Concentration per Run 1	0.0048 ppm	0.0048 ppm	0.0059 ppm	0.0049 ppm	0.0194 ppm	0.2904 ppm	0.0154 ppm
Concentration per Run 2	0.0050 ppm	0.0048 ppm	0.0055 ppm	0.0044 ppm	0.0189 ppm	0.2921 ppm	0.0174 ppm
Concentration per Run 3	0.0050 ppm	0.0049 ppm	0.0052 ppm	0.0042 ppm	0.0173 ppm	0.3771 ppm	0.0228 ppm
Recovery Percentage 1	98.279 %						
Concentration RSD	2.1 %	2.0 %	6.3 %	8.2 %	5.7 %	15.5 %	20.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0049 ppm	0.0051 ppm	0.1224 ppm	0.0047 ppm	0.0047 ppm	0.0060 ppm	0.0037 ppm
Concentration per Run 1	0.0047 ppm	0.0048 ppm	0.1265 ppm	0.0041 ppm	0.0042 ppm	0.0058 ppm	0.0023 ppm
Concentration per Run 2	0.0048 ppm	0.0053 ppm	0.1175 ppm	0.0049 ppm	0.0053 ppm	0.0067 ppm	0.0066 ppm
Concentration per Run 3	0.0053 ppm	0.0052 ppm	0.1232 ppm	0.0053 ppm	0.0044 ppm	0.0056 ppm	0.0023 ppm
Recovery Percentage 1							
Concentration RSD	6.3 %	4.7 %	3.7 %	12.8 %	12.6 %	10.0 %	65.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0574 ppm	0.0053 ppm	0.0050 ppm	0.0046 ppm	0.0041 ppm	0.0049 ppm	0.0053 ppm
Concentration per Run 1	0.0569 ppm	0.0056 ppm	0.0048 ppm	0.0043 ppm	0.0047 ppm	0.0051 ppm	0.0052 ppm
Concentration per Run 2	0.0573 ppm	0.0050 ppm	0.0054 ppm	0.0051 ppm	0.0040 ppm	0.0047 ppm	0.0053 ppm
Concentration per Run 3	0.0581 ppm	0.0055 ppm	0.0048 ppm	0.0045 ppm	0.0037 ppm	0.0049 ppm	0.0055 ppm
Recovery Percentage 1							106.236 %
Concentration RSD	1.0 %	6.3 %	7.5 %	9.3 %	12.4 %	4.3 %	2.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.0876 %	100.4777 %	99.3092 %	101.1064 %	99.0352 %	100.8666 %
Concentration per Run 1	104.9192 %	100.3189 %	99.2836 %	105.7814 %	99.2317 %	100.7293 %
Concentration per Run 2	96.9663 %	101.1885 %	99.2250 %	98.6258 %	98.9081 %	101.4899 %
Concentration per Run 3	98.3774 %	99.9257 %	99.4189 %	98.9121 %	98.9656 %	100.3804 %
Recovery Percentage 1						
Concentration RSD	4.2 %	0.6 %	0.1 %	4.0 %	0.2 %	0.6 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: 0.01
 Analysis started at: 8/2/2023 7:51:05 AM
 Rack: 1
 Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0094 ppm	-0.0053 ppm	0.0092 ppm	0.0099 ppm	0.0092 ppm	0.0090 ppm	0.0205 ppm
Concentration per Run 1	0.0096 ppm	0.0016 ppm	0.0083 ppm	0.0091 ppm	0.0088 ppm	0.0086 ppm	0.0231 ppm
Concentration per Run 2	0.0087 ppm	-0.0100 ppm	0.0099 ppm	0.0105 ppm	0.0093 ppm	0.0093 ppm	0.0340 ppm
Concentration per Run 3	0.0099 ppm	-0.0074 ppm	0.0092 ppm	0.0100 ppm	0.0094 ppm	0.0092 ppm	0.0043 ppm
Recovery Percentage 1			91.540 %	98.692 %	91.906 %		
Concentration RSD	6.5 %	114.8 %	8.6 %	6.7 %	3.5 %	4.2 %	73.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0094 ppm	0.0095 ppm	0.0091 ppm	0.0088 ppm	0.0101 ppm	0.5662 ppm	0.0148 ppm
Concentration per Run 1	0.0092 ppm	0.0093 ppm	0.0092 ppm	0.0089 ppm	0.0119 ppm	0.5166 ppm	0.0096 ppm
Concentration per Run 2	0.0093 ppm	0.0097 ppm	0.0090 ppm	0.0085 ppm	0.0062 ppm	0.5782 ppm	0.0127 ppm
Concentration per Run 3	0.0096 ppm	0.0095 ppm	0.0092 ppm	0.0089 ppm	0.0122 ppm	0.6038 ppm	0.0221 ppm
Recovery Percentage 1		95.186 %	91.498 %	88.020 %			
Concentration RSD	1.9 %	1.7 %	1.0 %	2.7 %	33.1 %	7.9 %	43.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0103 ppm	0.0094 ppm	0.1970 ppm	0.0089 ppm	0.0090 ppm	0.0082 ppm	0.0077 ppm
Concentration per Run 1	0.0093 ppm	0.0093 ppm	0.1899 ppm	0.0088 ppm	0.0084 ppm	0.0088 ppm	0.0075 ppm
Concentration per Run 2	0.0107 ppm	0.0093 ppm	0.2051 ppm	0.0092 ppm	0.0098 ppm	0.0077 ppm	0.0073 ppm
Concentration per Run 3	0.0110 ppm	0.0097 ppm	0.1961 ppm	0.0087 ppm	0.0087 ppm	0.0081 ppm	0.0083 ppm
Recovery Percentage 1	103.392 %	94.267 %		88.983 %	89.979 %		76.972 %
Concentration RSD	8.8 %	2.4 %	3.9 %	3.2 %	8.1 %	6.5 %	7.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1005 ppm	0.0094 ppm	0.0096 ppm	0.0089 ppm	0.0071 ppm	0.0097 ppm	0.0098 ppm
Concentration per Run 1	0.0993 ppm	0.0093 ppm	0.0092 ppm	0.0091 ppm	0.0083 ppm	0.0101 ppm	0.0097 ppm
Concentration per Run 2	0.1012 ppm	0.0096 ppm	0.0096 ppm	0.0089 ppm	0.0064 ppm	0.0092 ppm	0.0098 ppm
Concentration per Run 3	0.1010 ppm	0.0093 ppm	0.0098 ppm	0.0088 ppm	0.0065 ppm	0.0098 ppm	0.0101 ppm
Recovery Percentage 1		94.020 %	95.520 %	89.115 %	70.717 %	96.750 %	98.274 %
Concentration RSD	1.0 %	1.8 %	3.0 %	2.2 %	14.9 %	4.7 %	2.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.6065 %	99.9807 %	99.1981 %	102.5919 %	99.4806 %	100.8269 %
Concentration per Run 1	105.9231 %	100.1735 %	99.2748 %	107.7193 %	99.5566 %	101.1515 %
Concentration per Run 2	98.6336 %	99.8231 %	99.3117 %	100.8149 %	99.5847 %	100.5371 %
Concentration per Run 3	97.2627 %	99.9455 %	99.0078 %	99.2415 %	99.3004 %	100.7921 %
Recovery Percentage 1						
Concentration RSD	4.6 %	0.2 %	0.2 %	4.4 %	0.2 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: 0.05
 Analysis started at: 8/2/2023 8:13:48 AM
 Rack: 1
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0521 ppm	0.0576 ppm	0.0507 ppm	0.0500 ppm	0.0518 ppm	0.0505 ppm	0.0628 ppm
Concentration per Run 1	0.0518 ppm	0.0540 ppm	0.0498 ppm	0.0503 ppm	0.0482 ppm	0.0475 ppm	0.0627 ppm
Concentration per Run 2	0.0523 ppm	0.0502 ppm	0.0494 ppm	0.0502 ppm	0.0532 ppm	0.0513 ppm	0.0644 ppm
Concentration per Run 3	0.0520 ppm	0.0687 ppm	0.0529 ppm	0.0497 ppm	0.0540 ppm	0.0528 ppm	0.0613 ppm
Recovery Percentage 1		115.277 %					125.622 %
Concentration RSD	0.5 %	16.9 %	3.8 %	0.7 %	6.1 %	5.5 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0511 ppm	0.0516 ppm	0.0524 ppm	0.0519 ppm	0.0544 ppm	0.5550 ppm	0.0586 ppm
Concentration per Run 1	0.0511 ppm	0.0516 ppm	0.0524 ppm	0.0523 ppm	0.0518 ppm	0.5098 ppm	0.0603 ppm
Concentration per Run 2	0.0511 ppm	0.0518 ppm	0.0525 ppm	0.0517 ppm	0.0534 ppm	0.5555 ppm	0.0609 ppm
Concentration per Run 3	0.0512 ppm	0.0515 ppm	0.0524 ppm	0.0517 ppm	0.0579 ppm	0.5998 ppm	0.0546 ppm
Recovery Percentage 1					108.725 %	22.201 %	117.270 %
Concentration RSD	0.1 %	0.3 %	0.1 %	0.7 %	5.9 %	8.1 %	6.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0534 ppm	0.0496 ppm	1.0468 ppm	0.0522 ppm	0.0507 ppm	0.0476 ppm	0.0481 ppm
Concentration per Run 1	0.0506 ppm	0.0496 ppm	1.0009 ppm	0.0523 ppm	0.0505 ppm	0.0477 ppm	0.0474 ppm
Concentration per Run 2	0.0537 ppm	0.0496 ppm	1.0643 ppm	0.0519 ppm	0.0506 ppm	0.0466 ppm	0.0478 ppm
Concentration per Run 3	0.0559 ppm	0.0496 ppm	1.0753 ppm	0.0525 ppm	0.0511 ppm	0.0486 ppm	0.0491 ppm
Recovery Percentage 1			104.683 %			95.254 %	
Concentration RSD	5.0 %	0.0 %	3.8 %	0.5 %	0.6 %	2.1 %	1.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5195 ppm	0.0485 ppm	0.0514 ppm	0.0505 ppm	0.0515 ppm	0.0506 ppm	0.0508 ppm
Concentration per Run 1	0.5192 ppm	0.0475 ppm	0.0481 ppm	0.0504 ppm	0.0511 ppm	0.0508 ppm	0.0507 ppm
Concentration per Run 2	0.5192 ppm	0.0490 ppm	0.0525 ppm	0.0502 ppm	0.0512 ppm	0.0509 ppm	0.0508 ppm
Concentration per Run 3	0.5202 ppm	0.0489 ppm	0.0537 ppm	0.0510 ppm	0.0523 ppm	0.0502 ppm	0.0509 ppm
Recovery Percentage 1	103.905 %					0.000 %	101.636 %
Concentration RSD	0.1 %	1.8 %	5.7 %	0.7 %	1.3 %	0.7 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.4435 %	100.8015 %	99.6965 %	104.7647 %	101.2561 %	102.6287 %
Concentration per Run 1	105.1739 %	101.1323 %	99.7074 %	111.0553 %	101.5390 %	103.1064 %
Concentration per Run 2	98.0275 %	100.9294 %	99.8387 %	102.0376 %	101.2802 %	102.7648 %
Concentration per Run 3	98.1292 %	100.3427 %	99.5433 %	101.2012 %	100.9490 %	102.0148 %
Recovery Percentage 1						
Concentration RSD	4.1 %	0.4 %	0.1 %	5.2 %	0.3 %	0.5 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCV
 Analysis started at: 8/2/2023 8:20:21 AM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5089 ppm	0.5228 ppm	0.4948 ppm	0.4988 ppm	0.5155 ppm	0.5113 ppm	0.5234 ppm
Concentration per Run 1	0.5109 ppm	0.4921 ppm	0.4947 ppm	0.4967 ppm	0.4855 ppm	0.4813 ppm	0.4950 ppm
Concentration per Run 2	0.5082 ppm	0.5378 ppm	0.4926 ppm	0.4970 ppm	0.5285 ppm	0.5247 ppm	0.5353 ppm
Concentration per Run 3	0.5076 ppm	0.5386 ppm	0.4970 ppm	0.5026 ppm	0.5324 ppm	0.5279 ppm	0.5398 ppm
Recovery Percentage 1	101.777 %	104.559 %	98.953 %	99.757 %	103.091 %	102.265 %	104.673 %
Concentration RSD	0.4 %	5.1 %	0.5 %	0.7 %	5.0 %	5.1 %	4.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5049 ppm	0.5091 ppm	0.5102 ppm	0.5155 ppm	0.5264 ppm	5.4383 ppm	0.5076 ppm
Concentration per Run 1	0.5027 ppm	0.5069 ppm	0.5116 ppm	0.5163 ppm	0.4938 ppm	5.1686 ppm	0.5126 ppm
Concentration per Run 2	0.5029 ppm	0.5067 ppm	0.5092 ppm	0.5147 ppm	0.5412 ppm	5.4957 ppm	0.5039 ppm
Concentration per Run 3	0.5090 ppm	0.5137 ppm	0.5098 ppm	0.5155 ppm	0.5441 ppm	5.6506 ppm	0.5064 ppm
Recovery Percentage 1	100.975 %	101.821 %	102.037 %	103.104 %	105.274 %	108.766 %	101.528 %
Concentration RSD	0.7 %	0.8 %	0.2 %	0.2 %	5.4 %	4.5 %	0.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5222 ppm	0.4948 ppm	10.4389 ppm	0.5145 ppm	0.5070 ppm	0.4982 ppm	0.5053 ppm
Concentration per Run 1	0.4924 ppm	0.4921 ppm	9.8300 ppm	0.5126 ppm	0.5055 ppm	0.4930 ppm	0.5040 ppm
Concentration per Run 2	0.5349 ppm	0.4931 ppm	10.7151 ppm	0.5113 ppm	0.5043 ppm	0.4965 ppm	0.5030 ppm
Concentration per Run 3	0.5393 ppm	0.4991 ppm	10.7714 ppm	0.5196 ppm	0.5111 ppm	0.5050 ppm	0.5087 ppm
Recovery Percentage 1	104.432 %	98.955 %	104.389 %	102.904 %	101.393 %	99.633 %	101.054 %
Concentration RSD	5.0 %	0.8 %	5.1 %	0.9 %	0.7 %	1.2 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2424 ppm	0.4966 ppm	0.5064 ppm	0.4995 ppm	0.5098 ppm	0.5000 ppm	0.5035 ppm
Concentration per Run 1	5.2265 ppm	0.4934 ppm	0.4763 ppm	0.4999 ppm	0.5077 ppm	0.5012 ppm	0.5017 ppm
Concentration per Run 2	5.2211 ppm	0.4949 ppm	0.5196 ppm	0.4988 ppm	0.5075 ppm	0.4993 ppm	0.5015 ppm
Concentration per Run 3	5.2795 ppm	0.5014 ppm	0.5234 ppm	0.4998 ppm	0.5143 ppm	0.4994 ppm	0.5074 ppm
Recovery Percentage 1	104.847 %	99.311 %	101.284 %	99.894 %	101.963 %	99.993 %	100.699 %
Concentration RSD	0.6 %	0.9 %	5.2 %	0.1 %	0.8 %	0.2 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.1485 %	99.7447 %	98.3936 %	102.7534 %	100.2363 %	101.6067 %
Concentration per Run 1	105.5742 %	99.2903 %	99.1156 %	107.8872 %	100.7811 %	101.1949 %
Concentration per Run 2	97.1046 %	99.6693 %	98.6593 %	99.7939 %	100.5356 %	101.5011 %
Concentration per Run 3	97.7666 %	100.2745 %	97.4058 %	100.5789 %	99.3922 %	102.1241 %
Recovery Percentage 1						
Concentration RSD	4.7 %	0.5 %	0.9 %	4.3 %	0.7 %	0.5 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCB
 Analysis started at: 8/2/2023 8:24:41 AM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0071 ppm	0.0014 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	0.0078 ppm
Concentration per Run 1	0.0006 ppm	-0.0163 ppm	0.0003 ppm	0.0008 ppm	0.0001 ppm	-0.0001 ppm	0.0119 ppm
Concentration per Run 2	0.0000 ppm	0.0150 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	0.0042 ppm
Concentration per Run 3	-0.0003 ppm	-0.0199 ppm	0.0037 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0074 ppm
Recovery Percentage 1	1.497 %	-7.055 %	27.949 %	0.911 %	0.541 %	1.609 %	7.829 %
Concentration RSD	405.5 %	272.2 %	144.1 %	208.1 %	136.7 %	207.8 %	49.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0444 ppm	0.0022 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0002 ppm	-0.0027 ppm	0.0751 ppm	-0.0009 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0157 ppm	0.0024 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0003 ppm	-0.0005 ppm	0.0041 ppm	0.0422 ppm	0.0053 ppm
Recovery Percentage 1	1.551 %	0.496 %	0.616 %	-0.696 %	0.700 %	1.774 %	2.232 %
Concentration RSD	14.3 %	171.9 %	384.7 %	548.7 %	986.6 %	67.1 %	138.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0009 ppm	-0.0111 ppm	-0.0001 ppm	0.0006 ppm	0.0016 ppm	-0.0017 ppm
Concentration per Run 1	0.0001 ppm	0.0011 ppm	-0.0289 ppm	0.0001 ppm	0.0006 ppm	0.0021 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	-0.0044 ppm	-0.0001 ppm	0.0018 ppm	0.0015 ppm	-0.0003 ppm
Concentration per Run 3	0.0008 ppm	0.0007 ppm	-0.0001 ppm	-0.0002 ppm	-0.0007 ppm	0.0011 ppm	-0.0051 ppm
Recovery Percentage 1	3.063 %	1.710 %	-0.557 %	-0.237 %	5.510 %	3.138 %	-17.301 %
Concentration RSD	137.6 %	25.0 %	139.6 %	286.2 %	232.5 %	33.9 %	169.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0019 ppm	0.0014 ppm	0.0004 ppm	0.0004 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.0020 ppm	0.0010 ppm	0.0003 ppm	0.0001 ppm	-0.0011 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 2	0.0014 ppm	0.0020 ppm	0.0004 ppm	0.0009 ppm	-0.0009 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 3	0.0024 ppm	0.0012 ppm	0.0003 ppm	0.0002 ppm	0.0012 ppm	0.0003 ppm	0.0000 ppm
Recovery Percentage 1	0.385 %	2.755 %	3.525 %	3.949 %	-1.296 %	-0.350 %	1.314 %
Concentration RSD	26.9 %	37.9 %	9.4 %	105.0 %	473.4 %	937.5 %	111.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.8190 %	100.3778 %	99.6611 %	100.6051 %	99.9807 %	99.6784 %
Concentration per Run 1	104.1644 %	100.5726 %	99.7015 %	103.5288 %	100.2105 %	99.7944 %
Concentration per Run 2	98.4850 %	100.0167 %	99.6674 %	98.5860 %	99.9187 %	99.3026 %
Concentration per Run 3	99.8076 %	100.5441 %	99.6144 %	99.7004 %	99.8129 %	99.9383 %
Recovery Percentage 1						
Concentration RSD	2.9 %	0.3 %	0.0 %	2.6 %	0.2 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1810397-1 WG1810397
 Analysis started at: 8/2/2023 8:36:43 AM
 Rack: 1
 Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	0.0061 ppm	0.0015 ppm	0.0020 ppm	-0.0002 ppm	-0.0001 ppm	0.0107 ppm
Concentration per Run 1	-0.0002 ppm	0.0006 ppm	0.0037 ppm	0.0017 ppm	0.0000 ppm	-0.0002 ppm	0.0026 ppm
Concentration per Run 2	-0.0004 ppm	0.0069 ppm	0.0014 ppm	0.0024 ppm	-0.0005 ppm	-0.0001 ppm	0.0102 ppm
Concentration per Run 3	-0.0008 ppm	0.0108 ppm	-0.0005 ppm	0.0019 ppm	-0.0002 ppm	-0.0001 ppm	0.0194 ppm
Concentration RSD	72.2 %	84.6 %	136.1 %	18.8 %	114.7 %	51.3 %	78.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0001 ppm	0.0021 ppm	0.2440 ppm	0.0024 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0001 ppm	0.0012 ppm	0.2297 ppm	0.0062 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm	0.0009 ppm	0.2693 ppm	0.0012 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	0.0011 ppm	0.0007 ppm	0.0043 ppm	0.2329 ppm	-0.0003 ppm
Concentration RSD	235.8 %	201.7 %	76.9 %	1,131.1 %	86.7 %	9.0 %	143.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0003 ppm	143.9724 ppm	0.0001 ppm	-0.0006 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0007 ppm	0.0002 ppm	134.3787 ppm	0.0000 ppm	-0.0011 ppm	0.0014 ppm	-0.0021 ppm
Concentration per Run 2	0.0002 ppm	0.0000 ppm	148.2282 ppm	-0.0001 ppm	0.0000 ppm	-0.0011 ppm	0.0036 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	149.3103 ppm	0.0003 ppm	-0.0008 ppm	0.0001 ppm	-0.0022 ppm
Concentration RSD	90.8 %	104.4 %	5.8 %	285.2 %	92.0 %	906.9 %	1,621.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0131 ppm	0.0039 ppm	0.0002 ppm	0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0014 ppm
Concentration per Run 1	0.0123 ppm	0.0050 ppm	0.0004 ppm	-0.0002 ppm	0.0020 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 2	0.0136 ppm	0.0037 ppm	0.0000 ppm	0.0003 ppm	0.0005 ppm	-0.0004 ppm	0.0014 ppm
Concentration per Run 3	0.0135 ppm	0.0029 ppm	0.0002 ppm	0.0004 ppm	-0.0013 ppm	-0.0006 ppm	0.0014 ppm
Concentration RSD	5.3 %	27.2 %	93.1 %	238.5 %	411.3 %	93.4 %	2.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.2603 %	98.0089 %	96.4207 %	102.2090 %	98.0070 %	100.2225 %
Concentration per Run 1	106.5699 %	98.3390 %	96.2832 %	108.4841 %	98.0385 %	100.4452 %
Concentration per Run 2	97.4332 %	97.9878 %	96.5218 %	99.4091 %	98.1408 %	100.2908 %
Concentration per Run 3	96.7778 %	97.6999 %	96.4571 %	98.7339 %	97.8417 %	99.9314 %
Concentration RSD	5.5 %	0.3 %	0.1 %	5.3 %	0.2 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1810397-2 WG1810397
 Analysis started at: 8/2/2023 8:41:15 AM
 Rack: 1
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0510 ppm	2.0827 ppm	0.1254 ppm	1.0169 ppm	2.0581 ppm	0.0530 ppm	10.3725 ppm
Concentration per Run 1	0.0509 ppm	1.9347 ppm	0.1254 ppm	1.0175 ppm	1.9011 ppm	0.0491 ppm	9.6004 ppm
Concentration per Run 2	0.0507 ppm	2.1465 ppm	0.1245 ppm	1.0173 ppm	2.1168 ppm	0.0546 ppm	10.6533 ppm
Concentration per Run 3	0.0514 ppm	2.1668 ppm	0.1262 ppm	1.0158 ppm	2.1563 ppm	0.0552 ppm	10.8638 ppm
Concentration RSD	0.7 %	6.2 %	0.7 %	0.1 %	6.7 %	6.4 %	6.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0552 ppm	0.4974 ppm	0.2043 ppm	0.2644 ppm	1.0499 ppm	10.8136 ppm	9.9234 ppm
Concentration per Run 1	0.0552 ppm	0.4979 ppm	0.2044 ppm	0.2645 ppm	0.9707 ppm	10.0245 ppm	9.9609 ppm
Concentration per Run 2	0.0552 ppm	0.4981 ppm	0.2042 ppm	0.2651 ppm	1.0742 ppm	11.0970 ppm	9.9273 ppm
Concentration per Run 3	0.0553 ppm	0.4962 ppm	0.2041 ppm	0.2637 ppm	1.1049 ppm	11.3191 ppm	9.8820 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	0.3 %	6.7 %	6.4 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5068 ppm	0.9924 ppm	152.3001 ppm	0.4926 ppm	0.5181 ppm	0.4901 ppm	0.1255 ppm
Concentration per Run 1	0.4678 ppm	0.9903 ppm	140.7267 ppm	0.4916 ppm	0.5178 ppm	0.4928 ppm	0.1290 ppm
Concentration per Run 2	0.5205 ppm	0.9935 ppm	156.4163 ppm	0.4937 ppm	0.5198 ppm	0.4913 ppm	0.1209 ppm
Concentration per Run 3	0.5320 ppm	0.9933 ppm	159.7575 ppm	0.4925 ppm	0.5168 ppm	0.4863 ppm	0.1266 ppm
Concentration RSD	6.7 %	0.2 %	6.7 %	0.2 %	0.3 %	0.7 %	3.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.2835 ppm	0.9910 ppm	1.0112 ppm	1.0200 ppm	0.1197 ppm	0.5130 ppm	0.4996 ppm
Concentration per Run 1	1.2831 ppm	0.9919 ppm	0.9349 ppm	1.0216 ppm	0.1192 ppm	0.5154 ppm	0.4992 ppm
Concentration per Run 2	1.2839 ppm	0.9916 ppm	1.0403 ppm	1.0209 ppm	0.1186 ppm	0.5127 ppm	0.5004 ppm
Concentration per Run 3	1.2834 ppm	0.9895 ppm	1.0583 ppm	1.0175 ppm	0.1212 ppm	0.5108 ppm	0.4993 ppm
Concentration RSD	0.0 %	0.1 %	6.6 %	0.2 %	1.1 %	0.4 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.4634 %	96.6836 %	96.0707 %	102.7294 %	97.7269 %	98.5502 %
Concentration per Run 1	107.7528 %	96.1277 %	96.0341 %	110.2639 %	97.8645 %	98.0242 %
Concentration per Run 2	97.4238 %	96.5553 %	95.9416 %	100.0504 %	97.5055 %	98.3701 %
Concentration per Run 3	96.2137 %	97.3677 %	96.2365 %	97.8741 %	97.8106 %	99.2562 %
Concentration RSD	6.3 %	0.7 %	0.2 %	6.4 %	0.2 %	0.6 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: L2342308-18 WG1810397
 Analysis started at: 8/2/2023 8:45:34 AM
 Rack: 1
 Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0360 ppm	0.0035 ppm	0.0095 ppm	0.0468 ppm	-0.0001 ppm	39.1931 ppm
Concentration per Run 1	-0.0005 ppm	0.0254 ppm	0.0039 ppm	0.0102 ppm	0.0440 ppm	-0.0002 ppm	36.3702 ppm
Concentration per Run 2	-0.0003 ppm	0.0333 ppm	0.0035 ppm	0.0095 ppm	0.0476 ppm	0.0000 ppm	40.3641 ppm
Concentration per Run 3	0.0001 ppm	0.0494 ppm	0.0032 ppm	0.0089 ppm	0.0488 ppm	-0.0001 ppm	40.8452 ppm
Concentration RSD	132.4 %	34.0 %	10.2 %	6.9 %	5.4 %	84.1 %	6.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0029 ppm	0.0009 ppm	0.0018 ppm	0.0538 ppm	0.7983 ppm	3.0663 ppm
Concentration per Run 1	0.0003 ppm	0.0026 ppm	0.0006 ppm	0.0016 ppm	0.0527 ppm	0.7689 ppm	3.0616 ppm
Concentration per Run 2	0.0003 ppm	0.0030 ppm	0.0013 ppm	0.0020 ppm	0.0543 ppm	0.8309 ppm	3.0640 ppm
Concentration per Run 3	0.0003 ppm	0.0031 ppm	0.0007 ppm	0.0017 ppm	0.0543 ppm	0.7953 ppm	3.0732 ppm
Concentration RSD	14.1 %	9.1 %	45.9 %	10.1 %	1.8 %	3.9 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.3897 ppm	0.0017 ppm	139.3478 ppm	0.0033 ppm	0.0031 ppm	-0.0007 ppm	-0.0018 ppm
Concentration per Run 1	0.3623 ppm	0.0019 ppm	129.3148 ppm	0.0034 ppm	0.0029 ppm	-0.0006 ppm	-0.0015 ppm
Concentration per Run 2	0.4007 ppm	0.0021 ppm	143.6352 ppm	0.0028 ppm	0.0030 ppm	-0.0013 ppm	0.0003 ppm
Concentration per Run 3	0.4061 ppm	0.0013 ppm	145.0933 ppm	0.0036 ppm	0.0033 ppm	-0.0003 ppm	-0.0044 ppm
Concentration RSD	6.1 %	23.8 %	6.3 %	12.1 %	6.9 %	74.3 %	128.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.2322 ppm	0.0030 ppm	0.1002 ppm	0.0035 ppm	-0.0019 ppm	-0.0002 ppm	0.0195 ppm
Concentration per Run 1	2.2349 ppm	0.0033 ppm	0.0930 ppm	0.0042 ppm	-0.0034 ppm	0.0000 ppm	0.0194 ppm
Concentration per Run 2	2.2350 ppm	0.0031 ppm	0.1032 ppm	0.0033 ppm	-0.0009 ppm	-0.0004 ppm	0.0196 ppm
Concentration per Run 3	2.2266 ppm	0.0026 ppm	0.1045 ppm	0.0030 ppm	-0.0013 ppm	-0.0001 ppm	0.0196 ppm
Concentration RSD	0.2 %	12.2 %	6.3 %	18.2 %	72.3 %	118.1 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.8171 %	96.9985 %	96.5240 %	103.0660 %	97.4464 %	98.9797 %
Concentration per Run 1	106.3798 %	96.4052 %	96.2739 %	108.8788 %	97.5125 %	98.3963 %
Concentration per Run 2	98.1732 %	97.4636 %	96.6366 %	100.5131 %	97.1677 %	99.4707 %
Concentration per Run 3	97.8984 %	97.1266 %	96.6616 %	99.8060 %	97.6592 %	99.0720 %
Concentration RSD	4.8 %	0.6 %	0.2 %	4.9 %	0.3 %	0.5 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: L2342308-19 WG1810397
 Analysis started at: 8/2/2023 8:50:01 AM
 Rack: 1
 Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0569 ppm	0.0047 ppm	0.0319 ppm	0.1076 ppm	0.0000 ppm	28.5097 ppm
Concentration per Run 1	-0.0009 ppm	0.0486 ppm	0.0061 ppm	0.0320 ppm	0.0997 ppm	0.0000 ppm	26.5262 ppm
Concentration per Run 2	0.0000 ppm	0.0604 ppm	0.0038 ppm	0.0318 ppm	0.1109 ppm	-0.0002 ppm	29.3789 ppm
Concentration per Run 3	-0.0001 ppm	0.0619 ppm	0.0043 ppm	0.0318 ppm	0.1122 ppm	0.0001 ppm	29.6239 ppm
Concentration RSD	163.9 %	12.8 %	25.6 %	0.3 %	6.4 %	525.4 %	6.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0019 ppm	0.0038 ppm	0.0004 ppm	0.0062 ppm	0.0712 ppm	0.8310 ppm	1.1152 ppm
Concentration per Run 1	0.0018 ppm	0.0038 ppm	0.0001 ppm	0.0065 ppm	0.0670 ppm	0.7552 ppm	1.1119 ppm
Concentration per Run 2	0.0019 ppm	0.0036 ppm	0.0008 ppm	0.0064 ppm	0.0714 ppm	0.8998 ppm	1.1191 ppm
Concentration per Run 3	0.0019 ppm	0.0039 ppm	0.0005 ppm	0.0057 ppm	0.0753 ppm	0.8380 ppm	1.1146 ppm
Concentration RSD	2.7 %	4.6 %	76.0 %	6.8 %	5.8 %	8.7 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2509 ppm	0.0006 ppm	143.6471 ppm	0.0100 ppm	0.0543 ppm	0.0006 ppm	-0.0027 ppm
Concentration per Run 1	0.2326 ppm	0.0008 ppm	133.4900 ppm	0.0099 ppm	0.0543 ppm	0.0008 ppm	-0.0022 ppm
Concentration per Run 2	0.2590 ppm	0.0004 ppm	148.0776 ppm	0.0102 ppm	0.0550 ppm	0.0015 ppm	-0.0049 ppm
Concentration per Run 3	0.2611 ppm	0.0008 ppm	149.3737 ppm	0.0099 ppm	0.0535 ppm	-0.0006 ppm	-0.0010 ppm
Concentration RSD	6.3 %	31.5 %	6.1 %	1.5 %	1.3 %	190.2 %	74.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.1660 ppm	0.0027 ppm	0.1057 ppm	0.0005 ppm	-0.0001 ppm	0.0005 ppm	0.3430 ppm
Concentration per Run 1	1.1678 ppm	0.0027 ppm	0.0979 ppm	0.0004 ppm	0.0005 ppm	0.0007 ppm	0.3432 ppm
Concentration per Run 2	1.1702 ppm	0.0026 ppm	0.1093 ppm	0.0003 ppm	-0.0001 ppm	0.0006 ppm	0.3440 ppm
Concentration per Run 3	1.1600 ppm	0.0026 ppm	0.1099 ppm	0.0009 ppm	-0.0008 ppm	0.0003 ppm	0.3418 ppm
Concentration RSD	0.5 %	3.1 %	6.4 %	66.8 %	511.4 %	43.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.1111 %	97.4619 %	96.2410 %	102.1481 %	97.1086 %	99.2889 %
Concentration per Run 1	106.1206 %	97.3147 %	96.1878 %	108.2760 %	97.2004 %	99.0355 %
Concentration per Run 2	97.1206 %	98.4176 %	96.2789 %	99.4476 %	96.8611 %	100.2378 %
Concentration per Run 3	97.0922 %	96.6535 %	96.2563 %	98.7208 %	97.2644 %	98.5934 %
Concentration RSD	5.2 %	0.9 %	0.0 %	5.2 %	0.2 %	0.9 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: L2342308-20 WG1810397
 Analysis started at: 8/2/2023 8:54:26 AM
 Rack: 1
 Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0475 ppm	0.0035 ppm	0.0087 ppm	0.0560 ppm	0.0000 ppm	38.2599 ppm
Concentration per Run 1	-0.0002 ppm	0.0549 ppm	0.0048 ppm	0.0095 ppm	0.0511 ppm	0.0000 ppm	35.1852 ppm
Concentration per Run 2	-0.0002 ppm	0.0376 ppm	0.0038 ppm	0.0082 ppm	0.0584 ppm	0.0001 ppm	39.8486 ppm
Concentration per Run 3	-0.0004 ppm	0.0498 ppm	0.0020 ppm	0.0084 ppm	0.0585 ppm	0.0000 ppm	39.7459 ppm
Concentration RSD	55.1 %	18.8 %	40.4 %	7.6 %	7.5 %	228.3 %	7.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0032 ppm	0.0017 ppm	0.0009 ppm	0.3323 ppm	0.7618 ppm	2.9072 ppm
Concentration per Run 1	0.0003 ppm	0.0033 ppm	0.0016 ppm	0.0009 ppm	0.3048 ppm	0.6802 ppm	2.9057 ppm
Concentration per Run 2	0.0003 ppm	0.0031 ppm	0.0023 ppm	0.0006 ppm	0.3440 ppm	0.7800 ppm	2.9016 ppm
Concentration per Run 3	0.0003 ppm	0.0032 ppm	0.0012 ppm	0.0013 ppm	0.3482 ppm	0.8252 ppm	2.9145 ppm
Concentration RSD	9.1 %	2.9 %	30.5 %	32.3 %	7.2 %	9.7 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.3422 ppm	0.0006 ppm	142.6265 ppm	0.0055 ppm	0.0069 ppm	0.0017 ppm	0.0018 ppm
Concentration per Run 1	0.3144 ppm	0.0008 ppm	131.2835 ppm	0.0055 ppm	0.0074 ppm	0.0021 ppm	0.0009 ppm
Concentration per Run 2	0.3562 ppm	0.0005 ppm	148.5608 ppm	0.0056 ppm	0.0059 ppm	0.0014 ppm	0.0015 ppm
Concentration per Run 3	0.3560 ppm	0.0006 ppm	148.0353 ppm	0.0054 ppm	0.0075 ppm	0.0017 ppm	0.0029 ppm
Concentration RSD	7.0 %	18.2 %	6.9 %	2.4 %	12.8 %	22.6 %	59.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.4860 ppm	0.0024 ppm	0.1100 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0383 ppm
Concentration per Run 1	2.4894 ppm	0.0027 ppm	0.1016 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0383 ppm
Concentration per Run 2	2.4815 ppm	0.0019 ppm	0.1146 ppm	0.0002 ppm	-0.0003 ppm	0.0002 ppm	0.0385 ppm
Concentration per Run 3	2.4872 ppm	0.0027 ppm	0.1139 ppm	-0.0004 ppm	0.0010 ppm	0.0002 ppm	0.0382 ppm
Concentration RSD	0.2 %	17.7 %	6.7 %	469.8 %	298.5 %	54.4 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.8482 %	98.1944 %	96.6398 %	102.9136 %	97.3789 %	99.9315 %
Concentration per Run 1	107.0306 %	98.8860 %	96.8261 %	109.2665 %	97.4553 %	100.5908 %
Concentration per Run 2	97.5790 %	97.8062 %	96.7544 %	99.8912 %	97.5490 %	99.4663 %
Concentration per Run 3	97.9349 %	97.8909 %	96.3388 %	99.5831 %	97.1324 %	99.7375 %
Concentration RSD	5.3 %	0.6 %	0.3 %	5.3 %	0.2 %	0.6 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: L2342308-17 WG1810397
 Analysis started at: 8/2/2023 8:58:51 AM
 Rack: 1
 Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0371 ppm	0.0017 ppm	0.0175 ppm	0.0791 ppm	-0.0001 ppm	40.4732 ppm
Concentration per Run 1	0.0001 ppm	0.0285 ppm	0.0038 ppm	0.0177 ppm	0.0739 ppm	-0.0001 ppm	37.7367 ppm
Concentration per Run 2	0.0001 ppm	0.0431 ppm	0.0030 ppm	0.0177 ppm	0.0808 ppm	0.0000 ppm	41.5975 ppm
Concentration per Run 3	-0.0005 ppm	0.0395 ppm	-0.0017 ppm	0.0172 ppm	0.0826 ppm	-0.0001 ppm	42.0855 ppm
Concentration RSD	385.7 %	20.5 %	178.0 %	1.6 %	5.8 %	148.1 %	5.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0009 ppm	0.0021 ppm	0.0006 ppm	0.0013 ppm	0.2206 ppm	1.2264 ppm	1.9617 ppm
Concentration per Run 1	0.0009 ppm	0.0020 ppm	0.0002 ppm	0.0011 ppm	0.2101 ppm	1.1657 ppm	1.9575 ppm
Concentration per Run 2	0.0008 ppm	0.0020 ppm	0.0010 ppm	0.0017 ppm	0.2192 ppm	1.2488 ppm	1.9662 ppm
Concentration per Run 3	0.0009 ppm	0.0022 ppm	0.0006 ppm	0.0011 ppm	0.2326 ppm	1.2647 ppm	1.9615 ppm
Concentration RSD	4.5 %	5.7 %	73.7 %	25.6 %	5.1 %	4.3 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1869 ppm	0.0007 ppm	144.8488 ppm	0.0030 ppm	0.3086 ppm	0.0004 ppm	-0.0012 ppm
Concentration per Run 1	0.1749 ppm	0.0008 ppm	135.1824 ppm	0.0033 ppm	0.3093 ppm	0.0022 ppm	-0.0011 ppm
Concentration per Run 2	0.1908 ppm	0.0008 ppm	148.6953 ppm	0.0030 ppm	0.3075 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 3	0.1949 ppm	0.0006 ppm	150.6687 ppm	0.0028 ppm	0.3089 ppm	-0.0007 ppm	-0.0028 ppm
Concentration RSD	5.7 %	10.7 %	5.8 %	8.3 %	0.3 %	348.8 %	142.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.5158 ppm	0.0031 ppm	0.1811 ppm	0.0006 ppm	-0.0007 ppm	0.0003 ppm	0.4050 ppm
Concentration per Run 1	2.5194 ppm	0.0032 ppm	0.1686 ppm	0.0008 ppm	0.0000 ppm	0.0002 ppm	0.4055 ppm
Concentration per Run 2	2.5135 ppm	0.0028 ppm	0.1862 ppm	0.0004 ppm	-0.0007 ppm	0.0004 ppm	0.4040 ppm
Concentration per Run 3	2.5145 ppm	0.0033 ppm	0.1884 ppm	0.0007 ppm	-0.0015 ppm	0.0003 ppm	0.4054 ppm
Concentration RSD	0.1 %	8.4 %	6.0 %	30.6 %	106.7 %	27.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.4014 %	97.3217 %	96.2141 %	101.9734 %	96.9216 %	98.7891 %
Concentration per Run 1	105.5280 %	96.6434 %	96.3314 %	108.3010 %	96.9927 %	98.0448 %
Concentration per Run 2	96.3252 %	97.3890 %	96.1824 %	99.1047 %	97.1032 %	98.9680 %
Concentration per Run 3	96.3509 %	97.9327 %	96.1283 %	98.5146 %	96.6689 %	99.3545 %
Concentration RSD	5.3 %	0.7 %	0.1 %	5.4 %	0.2 %	0.7 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1810397-3 WG1810397
 Analysis started at: 8/2/2023 9:03:18 AM
 Rack: 1
 Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0518 ppm	2.1522 ppm	0.1284 ppm	1.0477 ppm	2.1545 ppm	0.0542 ppm	50.0197 ppm
Concentration per Run 1	0.0516 ppm	2.0166 ppm	0.1311 ppm	1.0474 ppm	2.0122 ppm	0.0504 ppm	46.7446 ppm
Concentration per Run 2	0.0514 ppm	2.1901 ppm	0.1245 ppm	1.0469 ppm	2.2081 ppm	0.0556 ppm	51.3031 ppm
Concentration per Run 3	0.0526 ppm	2.2498 ppm	0.1295 ppm	1.0490 ppm	2.2433 ppm	0.0567 ppm	52.0115 ppm
Concentration RSD	1.2 %	5.6 %	2.7 %	0.1 %	5.8 %	6.2 %	5.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0567 ppm	0.5063 ppm	0.2069 ppm	0.2682 ppm	1.2790 ppm	11.8913 ppm	11.9252 ppm
Concentration per Run 1	0.0566 ppm	0.5070 ppm	0.2072 ppm	0.2677 ppm	1.1935 ppm	11.0788 ppm	11.9115 ppm
Concentration per Run 2	0.0567 ppm	0.5053 ppm	0.2069 ppm	0.2685 ppm	1.3073 ppm	12.2337 ppm	11.9619 ppm
Concentration per Run 3	0.0568 ppm	0.5066 ppm	0.2067 ppm	0.2683 ppm	1.3363 ppm	12.3612 ppm	11.9021 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	0.1 %	5.9 %	5.9 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.6986 ppm	1.0112 ppm	152.8793 ppm	0.4995 ppm	0.8299 ppm	0.5009 ppm	0.1273 ppm
Concentration per Run 1	0.6521 ppm	1.0089 ppm	142.8227 ppm	0.4993 ppm	0.8285 ppm	0.5002 ppm	0.1272 ppm
Concentration per Run 2	0.7167 ppm	1.0097 ppm	156.6761 ppm	0.4984 ppm	0.8314 ppm	0.5016 ppm	0.1285 ppm
Concentration per Run 3	0.7271 ppm	1.0150 ppm	159.1390 ppm	0.5009 ppm	0.8297 ppm	0.5010 ppm	0.1263 ppm
Concentration RSD	5.8 %	0.3 %	5.8 %	0.3 %	0.2 %	0.1 %	0.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.8167 ppm	1.0064 ppm	1.1968 ppm	1.0334 ppm	0.1211 ppm	0.5223 ppm	0.9018 ppm
Concentration per Run 1	3.8203 ppm	1.0057 ppm	1.1169 ppm	1.0301 ppm	0.1216 ppm	0.5215 ppm	0.9026 ppm
Concentration per Run 2	3.8095 ppm	1.0050 ppm	1.2264 ppm	1.0344 ppm	0.1188 ppm	0.5215 ppm	0.8996 ppm
Concentration per Run 3	3.8205 ppm	1.0085 ppm	1.2471 ppm	1.0356 ppm	0.1229 ppm	0.5240 ppm	0.9032 ppm
Concentration RSD	0.2 %	0.2 %	5.8 %	0.3 %	1.7 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.0001 %	98.0419 %	96.3523 %	103.1896 %	97.6010 %	99.5784 %
Concentration per Run 1	106.8767 %	97.8831 %	96.5295 %	108.8888 %	97.6246 %	99.6406 %
Concentration per Run 2	98.3173 %	97.6768 %	96.2850 %	100.6773 %	97.7235 %	99.0838 %
Concentration per Run 3	97.8063 %	98.5659 %	96.2424 %	100.0026 %	97.4548 %	100.0108 %
Concentration RSD	5.0 %	0.5 %	0.2 %	4.8 %	0.1 %	0.5 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1810397-4 WG1810397
 Analysis started at: 8/2/2023 9:07:36 AM
 Rack: 1
 Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0346 ppm	0.0052 ppm	0.0189 ppm	0.0770 ppm	0.0000 ppm	39.5964 ppm
Concentration per Run 1	0.0000 ppm	0.0310 ppm	0.0058 ppm	0.0186 ppm	0.0708 ppm	-0.0001 ppm	36.4990 ppm
Concentration per Run 2	0.0011 ppm	0.0290 ppm	0.0076 ppm	0.0188 ppm	0.0806 ppm	0.0001 ppm	41.3617 ppm
Concentration per Run 3	0.0004 ppm	0.0439 ppm	0.0022 ppm	0.0192 ppm	0.0797 ppm	-0.0001 ppm	40.9284 ppm
Concentration RSD	110.4 %	23.4 %	52.4 %	1.5 %	7.0 %	794.1 %	6.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0009 ppm	0.0023 ppm	0.0003 ppm	0.0016 ppm	0.2145 ppm	1.2462 ppm	1.9060 ppm
Concentration per Run 1	0.0009 ppm	0.0024 ppm	0.0002 ppm	0.0018 ppm	0.1991 ppm	1.1004 ppm	1.9049 ppm
Concentration per Run 2	0.0009 ppm	0.0022 ppm	0.0006 ppm	0.0014 ppm	0.2208 ppm	1.2795 ppm	1.9071 ppm
Concentration per Run 3	0.0009 ppm	0.0023 ppm	0.0002 ppm	0.0016 ppm	0.2235 ppm	1.3587 ppm	1.9060 ppm
Concentration RSD	3.9 %	4.2 %	64.1 %	12.3 %	6.2 %	10.6 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1818 ppm	0.0024 ppm	141.5142 ppm	0.0031 ppm	0.3000 ppm	0.0006 ppm	-0.0011 ppm
Concentration per Run 1	0.1679 ppm	0.0027 ppm	130.6668 ppm	0.0032 ppm	0.2992 ppm	0.0030 ppm	-0.0016 ppm
Concentration per Run 2	0.1892 ppm	0.0022 ppm	147.6082 ppm	0.0031 ppm	0.2996 ppm	-0.0015 ppm	0.0004 ppm
Concentration per Run 3	0.1882 ppm	0.0022 ppm	146.2675 ppm	0.0029 ppm	0.3012 ppm	0.0004 ppm	-0.0021 ppm
Concentration RSD	6.6 %	13.2 %	6.7 %	3.8 %	0.3 %	344.5 %	118.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.4350 ppm	0.0036 ppm	0.1767 ppm	0.0014 ppm	0.0004 ppm	0.0004 ppm	0.3937 ppm
Concentration per Run 1	2.4398 ppm	0.0033 ppm	0.1628 ppm	0.0011 ppm	0.0008 ppm	0.0006 ppm	0.3941 ppm
Concentration per Run 2	2.4193 ppm	0.0037 ppm	0.1845 ppm	0.0015 ppm	-0.0008 ppm	0.0002 ppm	0.3918 ppm
Concentration per Run 3	2.4457 ppm	0.0037 ppm	0.1828 ppm	0.0015 ppm	0.0010 ppm	0.0005 ppm	0.3951 ppm
Concentration RSD	0.6 %	6.4 %	6.8 %	14.6 %	275.0 %	47.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.4138 %	97.9613 %	96.6024 %	101.9813 %	97.4615 %	99.4480 %
Concentration per Run 1	106.3854 %	97.7927 %	96.8101 %	109.1588 %	97.6659 %	99.2698 %
Concentration per Run 2	95.0397 %	98.0011 %	96.6047 %	97.9557 %	97.7484 %	99.4576 %
Concentration per Run 3	96.8163 %	98.0903 %	96.3924 %	98.8294 %	96.9702 %	99.6167 %
Concentration RSD	6.1 %	0.2 %	0.2 %	6.1 %	0.4 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1810397-5 WG1810397
 Analysis started at: 8/2/2023 9:12:04 AM
 Rack: 1
 Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0313 ppm	2.0416 ppm	0.1268 ppm	1.0321 ppm	2.0518 ppm	0.0523 ppm	48.9392 ppm
Concentration per Run 1	0.0318 ppm	1.8873 ppm	0.1261 ppm	1.0319 ppm	1.9029 ppm	0.0483 ppm	45.3272 ppm
Concentration per Run 2	0.0310 ppm	2.1193 ppm	0.1264 ppm	1.0313 ppm	2.1127 ppm	0.0542 ppm	50.3802 ppm
Concentration per Run 3	0.0310 ppm	2.1182 ppm	0.1278 ppm	1.0333 ppm	2.1399 ppm	0.0544 ppm	51.1102 ppm
Concentration RSD	1.5 %	6.5 %	0.7 %	0.1 %	6.3 %	6.6 %	6.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0545 ppm	0.4880 ppm	0.1992 ppm	0.2578 ppm	1.2285 ppm	11.5800 ppm	11.5669 ppm
Concentration per Run 1	0.0546 ppm	0.4886 ppm	0.1990 ppm	0.2589 ppm	1.1305 ppm	10.7294 ppm	11.6000 ppm
Concentration per Run 2	0.0546 ppm	0.4875 ppm	0.1995 ppm	0.2577 ppm	1.2708 ppm	11.9257 ppm	11.5661 ppm
Concentration per Run 3	0.0543 ppm	0.4879 ppm	0.1991 ppm	0.2568 ppm	1.2842 ppm	12.0848 ppm	11.5345 ppm
Concentration RSD	0.3 %	0.1 %	0.1 %	0.4 %	6.9 %	6.4 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.6735 ppm	0.9896 ppm	149.3700 ppm	0.4798 ppm	0.8156 ppm	0.4688 ppm	0.1227 ppm
Concentration per Run 1	0.6236 ppm	0.9896 ppm	138.6074 ppm	0.4816 ppm	0.8169 ppm	0.4663 ppm	0.1248 ppm
Concentration per Run 2	0.6939 ppm	0.9886 ppm	153.8581 ppm	0.4788 ppm	0.8148 ppm	0.4705 ppm	0.1214 ppm
Concentration per Run 3	0.7030 ppm	0.9906 ppm	155.6445 ppm	0.4790 ppm	0.8151 ppm	0.4697 ppm	0.1218 ppm
Concentration RSD	6.5 %	0.1 %	6.3 %	0.3 %	0.1 %	0.5 %	1.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.1580 ppm	0.9912 ppm	1.1597 ppm	1.0018 ppm	0.1192 ppm	0.5030 ppm	0.8747 ppm
Concentration per Run 1	3.1622 ppm	0.9923 ppm	1.0738 ppm	1.0028 ppm	0.1185 ppm	0.5049 ppm	0.8757 ppm
Concentration per Run 2	3.1552 ppm	0.9901 ppm	1.1944 ppm	1.0016 ppm	0.1199 ppm	0.5024 ppm	0.8742 ppm
Concentration per Run 3	3.1566 ppm	0.9912 ppm	1.2108 ppm	1.0009 ppm	0.1191 ppm	0.5018 ppm	0.8743 ppm
Concentration RSD	0.1 %	0.1 %	6.4 %	0.1 %	0.6 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.4537 %	97.6604 %	95.6471 %	103.0820 %	96.4197 %	98.8946 %
Concentration per Run 1	107.2601 %	97.3295 %	95.9653 %	110.3408 %	96.4899 %	98.5173 %
Concentration per Run 2	97.2946 %	97.6278 %	95.7451 %	99.9031 %	96.6496 %	98.9313 %
Concentration per Run 3	96.8064 %	98.0239 %	95.2311 %	99.0023 %	96.1195 %	99.2352 %
Concentration RSD	5.9 %	0.4 %	0.4 %	6.1 %	0.3 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1810397-6D5 WG1810397
 Analysis started at: 8/2/2023 9:16:22 AM
 Rack: 1
 Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0070 ppm	0.0002 ppm	0.0057 ppm	0.0160 ppm	0.0000 ppm	8.0751 ppm
Concentration per Run 1	-0.0001 ppm	-0.0119 ppm	-0.0012 ppm	0.0053 ppm	0.0145 ppm	-0.0001 ppm	7.5303 ppm
Concentration per Run 2	-0.0007 ppm	-0.0097 ppm	0.0014 ppm	0.0058 ppm	0.0166 ppm	0.0000 ppm	8.2979 ppm
Concentration per Run 3	0.0003 ppm	0.0007 ppm	0.0005 ppm	0.0060 ppm	0.0167 ppm	0.0001 ppm	8.3972 ppm
Concentration RSD	304.4 %	96.5 %	534.4 %	6.3 %	7.7 %	6,701.6 %	5.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0005 ppm	0.0001 ppm	0.0002 ppm	0.0428 ppm	0.2679 ppm	0.4006 ppm
Concentration per Run 1	0.0002 ppm	0.0005 ppm	-0.0001 ppm	0.0001 ppm	0.0395 ppm	0.2927 ppm	0.4008 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0002 ppm	0.0002 ppm	0.0484 ppm	0.2048 ppm	0.3989 ppm
Concentration per Run 3	0.0002 ppm	0.0005 ppm	0.0003 ppm	0.0003 ppm	0.0406 ppm	0.3063 ppm	0.4023 ppm
Concentration RSD	27.1 %	15.4 %	162.6 %	32.4 %	11.3 %	20.6 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0380 ppm	0.0020 ppm	29.0438 ppm	0.0009 ppm	0.0616 ppm	0.0009 ppm	-0.0013 ppm
Concentration per Run 1	0.0350 ppm	0.0023 ppm	27.1453 ppm	0.0010 ppm	0.0615 ppm	0.0010 ppm	-0.0010 ppm
Concentration per Run 2	0.0388 ppm	0.0018 ppm	29.8056 ppm	0.0010 ppm	0.0619 ppm	0.0002 ppm	-0.0020 ppm
Concentration per Run 3	0.0402 ppm	0.0019 ppm	30.1807 ppm	0.0008 ppm	0.0615 ppm	0.0013 ppm	-0.0009 ppm
Concentration RSD	7.2 %	13.8 %	5.7 %	11.3 %	0.4 %	65.3 %	45.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4993 ppm	0.0008 ppm	0.0363 ppm	0.0007 ppm	-0.0006 ppm	0.0005 ppm	0.0806 ppm
Concentration per Run 1	0.5004 ppm	0.0005 ppm	0.0340 ppm	0.0010 ppm	-0.0010 ppm	0.0002 ppm	0.0807 ppm
Concentration per Run 2	0.5000 ppm	0.0014 ppm	0.0374 ppm	0.0006 ppm	-0.0016 ppm	0.0007 ppm	0.0807 ppm
Concentration per Run 3	0.4976 ppm	0.0004 ppm	0.0376 ppm	0.0006 ppm	0.0008 ppm	0.0005 ppm	0.0806 ppm
Concentration RSD	0.3 %	66.1 %	5.6 %	29.9 %	205.7 %	48.7 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.0027 %	100.5514 %	99.0970 %	104.4495 %	100.6581 %	101.9725 %
Concentration per Run 1	107.5385 %	100.3585 %	99.2016 %	110.4487 %	100.5510 %	101.7461 %
Concentration per Run 2	99.3825 %	100.8028 %	99.1375 %	101.8362 %	100.6757 %	102.2388 %
Concentration per Run 3	99.0870 %	100.4929 %	98.9518 %	101.0634 %	100.7477 %	101.9326 %
Concentration RSD	4.7 %	0.2 %	0.1 %	5.0 %	0.1 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCV
 Analysis started at: 8/2/2023 9:20:52 AM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5095 ppm	0.5187 ppm	0.4870 ppm	0.4911 ppm	0.5068 ppm	0.5085 ppm	0.5110 ppm
Concentration per Run 1	0.5085 ppm	0.4811 ppm	0.4865 ppm	0.4905 ppm	0.4777 ppm	0.4791 ppm	0.4716 ppm
Concentration per Run 2	0.5091 ppm	0.5341 ppm	0.4850 ppm	0.4897 ppm	0.5184 ppm	0.5200 ppm	0.5332 ppm
Concentration per Run 3	0.5110 ppm	0.5409 ppm	0.4896 ppm	0.4932 ppm	0.5241 ppm	0.5266 ppm	0.5281 ppm
Recovery Percentage 1	101.907 %	103.741 %	97.409 %	98.221 %	101.350 %	101.707 %	102.199 %
Concentration RSD	0.3 %	6.3 %	0.5 %	0.4 %	5.0 %	5.1 %	6.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4947 ppm	0.5004 ppm	0.5044 ppm	0.5083 ppm	0.5237 ppm	5.3810 ppm	0.5046 ppm
Concentration per Run 1	0.4950 ppm	0.5003 ppm	0.5036 ppm	0.5079 ppm	0.4949 ppm	5.0621 ppm	0.5023 ppm
Concentration per Run 2	0.4941 ppm	0.4992 ppm	0.5037 ppm	0.5080 ppm	0.5309 ppm	5.5229 ppm	0.5081 ppm
Concentration per Run 3	0.4951 ppm	0.5015 ppm	0.5059 ppm	0.5092 ppm	0.5452 ppm	5.5580 ppm	0.5034 ppm
Recovery Percentage 1	98.944 %	100.071 %	100.881 %	101.668 %	104.732 %	107.620 %	100.918 %
Concentration RSD	0.1 %	0.2 %	0.3 %	0.1 %	4.9 %	5.1 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5160 ppm	0.4873 ppm	10.3924 ppm	0.5027 ppm	0.4963 ppm	0.4883 ppm	0.4940 ppm
Concentration per Run 1	0.4869 ppm	0.4864 ppm	9.8225 ppm	0.5035 ppm	0.4969 ppm	0.4864 ppm	0.4927 ppm
Concentration per Run 2	0.5285 ppm	0.4868 ppm	10.6201 ppm	0.5015 ppm	0.4964 ppm	0.4882 ppm	0.4914 ppm
Concentration per Run 3	0.5327 ppm	0.4888 ppm	10.7345 ppm	0.5029 ppm	0.4955 ppm	0.4904 ppm	0.4977 ppm
Recovery Percentage 1	103.206 %	97.468 %	103.924 %	100.533 %	99.251 %	97.664 %	98.791 %
Concentration RSD	4.9 %	0.3 %	4.8 %	0.2 %	0.1 %	0.4 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1363 ppm	0.4868 ppm	0.5013 ppm	0.4988 ppm	0.5011 ppm	0.4972 ppm	0.4944 ppm
Concentration per Run 1	5.1385 ppm	0.4847 ppm	0.4724 ppm	0.4978 ppm	0.5013 ppm	0.4969 ppm	0.4946 ppm
Concentration per Run 2	5.1292 ppm	0.4869 ppm	0.5131 ppm	0.4979 ppm	0.5021 ppm	0.4969 ppm	0.4935 ppm
Concentration per Run 3	5.1411 ppm	0.4889 ppm	0.5183 ppm	0.5006 ppm	0.5000 ppm	0.4979 ppm	0.4949 ppm
Recovery Percentage 1	102.726 %	97.369 %	100.255 %	99.757 %	100.230 %	99.441 %	98.871 %
Concentration RSD	0.1 %	0.4 %	5.0 %	0.3 %	0.2 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.0827 %	101.1052 %	99.1994 %	103.2502 %	101.1360 %	101.8726 %
Concentration per Run 1	105.9623 %	101.2535 %	99.3480 %	108.3673 %	101.1549 %	102.0255 %
Concentration per Run 2	98.3716 %	100.9270 %	99.0397 %	100.9748 %	101.1700 %	101.7432 %
Concentration per Run 3	98.9144 %	101.1350 %	99.2106 %	100.4083 %	101.0830 %	101.8490 %
Recovery Percentage 1						
Concentration RSD	4.2 %	0.2 %	0.2 %	4.3 %	0.0 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCB
 Analysis started at: 8/2/2023 9:25:13 AM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0024 ppm	-0.0015 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0096 ppm
Concentration per Run 1	-0.0003 ppm	-0.0120 ppm	-0.0006 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0045 ppm
Concentration per Run 2	0.0009 ppm	-0.0039 ppm	-0.0014 ppm	0.0018 ppm	0.0003 ppm	0.0001 ppm	0.0081 ppm
Concentration per Run 3	0.0000 ppm	0.0089 ppm	-0.0024 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm	0.0163 ppm
Recovery Percentage 1	3.014 %	-2.350 %	-29.933 %	4.386 %	1.497 %	0.815 %	9.601 %
Concentration RSD	301.4 %	448.2 %	61.8 %	35.3 %	93.9 %	134.8 %	63.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm	-0.0020 ppm	0.0031 ppm	0.0024 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0065 ppm	0.0657 ppm	-0.0004 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	-0.0005 ppm	-0.0136 ppm	0.0041 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0003 ppm	0.0008 ppm	-0.0427 ppm	0.0037 ppm
Recovery Percentage 1	3.436 %	1.566 %	0.844 %	2.029 %	-4.079 %	0.125 %	2.442 %
Concentration RSD	11.7 %	56.6 %	345.1 %	35.5 %	192.0 %	1,795.1 %	102.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0012 ppm	0.0630 ppm	0.0003 ppm	0.0009 ppm	0.0009 ppm	-0.0019 ppm
Concentration per Run 1	0.0002 ppm	0.0016 ppm	0.0798 ppm	0.0001 ppm	0.0020 ppm	0.0024 ppm	-0.0036 ppm
Concentration per Run 2	-0.0001 ppm	0.0010 ppm	0.0575 ppm	0.0004 ppm	-0.0001 ppm	-0.0008 ppm	0.0003 ppm
Concentration per Run 3	0.0008 ppm	0.0011 ppm	0.0518 ppm	0.0005 ppm	0.0007 ppm	0.0011 ppm	-0.0024 ppm
Recovery Percentage 1	3.356 %	2.441 %	3.152 %	1.323 %	8.691 %	1.801 %	-18.862 %
Concentration RSD	135.0 %	29.5 %	23.4 %	57.3 %	124.9 %	175.9 %	105.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0021 ppm	0.0012 ppm	0.0005 ppm	0.0003 ppm	-0.0010 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.0025 ppm	0.0015 ppm	0.0007 ppm	0.0007 ppm	-0.0006 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 2	0.0018 ppm	0.0009 ppm	0.0003 ppm	0.0006 ppm	-0.0015 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 3	0.0020 ppm	0.0011 ppm	0.0005 ppm	-0.0003 ppm	-0.0009 ppm	-0.0004 ppm	0.0002 ppm
Recovery Percentage 1	0.419 %	2.347 %	5.228 %	3.259 %	-5.107 %	0.137 %	4.616 %
Concentration RSD	17.9 %	25.7 %	41.7 %	167.6 %	42.0 %	4,182.1 %	23.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.0537 %	101.7065 %	100.8907 %	100.6763 %	101.1542 %	100.4595 %
Concentration per Run 1	104.1111 %	101.6126 %	101.1764 %	103.3640 %	101.2150 %	100.4140 %
Concentration per Run 2	99.1338 %	101.9370 %	100.7017 %	99.4299 %	101.1507 %	100.7826 %
Concentration per Run 3	99.9162 %	101.5699 %	100.7940 %	99.2350 %	101.0967 %	100.1819 %
Recovery Percentage 1						
Concentration RSD	2.6 %	0.2 %	0.2 %	2.3 %	0.1 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1802988-1 WG1802988
 Analysis started at: 8/2/2023 9:38:27 AM
 Rack: 1
 Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	-0.0169 ppm	0.0024 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0047 ppm
Concentration per Run 1	-0.0004 ppm	-0.0415 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0016 ppm
Concentration per Run 2	-0.0008 ppm	0.0042 ppm	0.0042 ppm	0.0007 ppm	0.0003 ppm	-0.0002 ppm	0.0113 ppm
Concentration per Run 3	-0.0001 ppm	-0.0134 ppm	0.0026 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0044 ppm
Concentration RSD	85.1 %	136.5 %	77.9 %	33.2 %	158.7 %	259.8 %	136.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0000 ppm	0.0005 ppm	-0.0002 ppm	0.0022 ppm	0.0910 ppm	0.0010 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0023 ppm	0.0748 ppm	0.0031 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0001 ppm	0.0022 ppm	0.1212 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0003 ppm	-0.0005 ppm	0.0020 ppm	0.0769 ppm	0.0004 ppm
Concentration RSD	23.6 %	1,269.0 %	35.0 %	186.6 %	7.6 %	28.8 %	195.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0004 ppm	0.2033 ppm	0.0006 ppm	0.0001 ppm	-0.0010 ppm	-0.0023 ppm
Concentration per Run 1	-0.0006 ppm	0.0003 ppm	0.1872 ppm	0.0002 ppm	-0.0005 ppm	-0.0004 ppm	-0.0026 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.2034 ppm	0.0011 ppm	0.0005 ppm	-0.0019 ppm	-0.0008 ppm
Concentration per Run 3	0.0006 ppm	0.0003 ppm	0.2193 ppm	0.0006 ppm	0.0003 ppm	-0.0007 ppm	-0.0034 ppm
Concentration RSD	2,201.6 %	30.4 %	7.9 %	70.1 %	507.8 %	83.3 %	60.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0034 ppm	0.0007 ppm	0.0003 ppm	0.0004 ppm	0.0016 ppm	0.0003 ppm	0.0014 ppm
Concentration per Run 1	-0.0037 ppm	0.0006 ppm	0.0004 ppm	0.0002 ppm	0.0020 ppm	0.0002 ppm	0.0015 ppm
Concentration per Run 2	-0.0027 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0017 ppm	0.0005 ppm	0.0014 ppm
Concentration per Run 3	-0.0037 ppm	0.0008 ppm	0.0005 ppm	0.0010 ppm	0.0010 ppm	0.0002 ppm	0.0014 ppm
Concentration RSD	16.9 %	12.6 %	32.3 %	136.8 %	33.2 %	50.2 %	3.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.0426 %	104.0080 %	103.2428 %	101.9080 %	105.5264 %	102.9227 %
Concentration per Run 1	106.1400 %	104.2247 %	102.3947 %	104.0993 %	104.6746 %	103.0179 %
Concentration per Run 2	101.9561 %	104.0267 %	103.0465 %	101.1063 %	105.1582 %	102.8863 %
Concentration per Run 3	101.0317 %	103.7724 %	104.2872 %	100.5185 %	106.7464 %	102.8640 %
Concentration RSD	2.6 %	0.2 %	0.9 %	1.9 %	1.0 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1802988-2d2 WG1802988
 Analysis started at: 8/2/2023 9:42:59 AM
 Rack: 1
 Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.2733 ppm	26.5611 ppm	0.7195 ppm	0.3975 ppm	1.1660 ppm	0.3194 ppm	18.4761 ppm
Concentration per Run 1	0.2735 ppm	25.6186 ppm	0.7222 ppm	0.3968 ppm	1.1224 ppm	0.3081 ppm	17.7759 ppm
Concentration per Run 2	0.2736 ppm	26.9438 ppm	0.7147 ppm	0.3980 ppm	1.1839 ppm	0.3242 ppm	18.7177 ppm
Concentration per Run 3	0.2727 ppm	27.1209 ppm	0.7214 ppm	0.3978 ppm	1.1916 ppm	0.3259 ppm	18.9347 ppm
Concentration RSD	0.2 %	3.1 %	0.6 %	0.2 %	3.3 %	3.1 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.8886 ppm	0.3885 ppm	0.7966 ppm	0.5623 ppm	59.0275 ppm	7.5276 ppm	8.4857 ppm
Concentration per Run 1	0.8893 ppm	0.3885 ppm	0.7966 ppm	0.5621 ppm	56.7931 ppm	7.2070 ppm	8.4805 ppm
Concentration per Run 2	0.8883 ppm	0.3885 ppm	0.7970 ppm	0.5627 ppm	59.8627 ppm	7.7291 ppm	8.4922 ppm
Concentration per Run 3	0.8882 ppm	0.3884 ppm	0.7962 ppm	0.5620 ppm	60.4266 ppm	7.6466 ppm	8.4842 ppm
Concentration RSD	0.1 %	0.0 %	0.0 %	0.1 %	3.3 %	3.7 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.5988 ppm	0.6940 ppm	7.1423 ppm	0.6840 ppm	1.0042 ppm	0.4671 ppm	0.9258 ppm
Concentration per Run 1	1.5395 ppm	0.6920 ppm	6.9034 ppm	0.6843 ppm	1.0038 ppm	0.4665 ppm	0.9276 ppm
Concentration per Run 2	1.6214 ppm	0.6936 ppm	7.2253 ppm	0.6838 ppm	1.0047 ppm	0.4683 ppm	0.9229 ppm
Concentration per Run 3	1.6356 ppm	0.6964 ppm	7.2982 ppm	0.6840 ppm	1.0040 ppm	0.4665 ppm	0.9268 ppm
Concentration RSD	3.2 %	0.3 %	2.9 %	0.0 %	0.0 %	0.2 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	14.5898 ppm	0.4793 ppm	0.4537 ppm	1.2994 ppm	0.3235 ppm	0.8138 ppm	0.8864 ppm
Concentration per Run 1	14.6157 ppm	0.4793 ppm	0.4369 ppm	1.2996 ppm	0.3247 ppm	0.8121 ppm	0.8870 ppm
Concentration per Run 2	14.5659 ppm	0.4777 ppm	0.4601 ppm	1.2987 ppm	0.3237 ppm	0.8143 ppm	0.8864 ppm
Concentration per Run 3	14.5878 ppm	0.4810 ppm	0.4640 ppm	1.3000 ppm	0.3219 ppm	0.8149 ppm	0.8859 ppm
Concentration RSD	0.2 %	0.3 %	3.2 %	0.0 %	0.4 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.2694 %	108.2510 %	106.4154 %	104.5217 %	102.6845 %	103.0159 %
Concentration per Run 1	112.5790 %	108.2187 %	106.9072 %	107.6202 %	102.9524 %	102.9503 %
Concentration per Run 2	107.0206 %	108.2956 %	105.8693 %	102.9027 %	102.3593 %	103.0884 %
Concentration per Run 3	108.2086 %	108.2386 %	106.4696 %	103.0423 %	102.7418 %	103.0090 %
Concentration RSD	2.7 %	0.0 %	0.5 %	2.6 %	0.3 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: L2342308-21 WG1810397
 Analysis started at: 8/2/2023 9:47:14 AM
 Rack: 1
 Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0239 ppm	0.0011 ppm	0.0471 ppm	0.0145 ppm	0.0000 ppm	20.2140 ppm
Concentration per Run 1	0.0005 ppm	0.0115 ppm	0.0004 ppm	0.0471 ppm	0.0135 ppm	0.0000 ppm	18.8038 ppm
Concentration per Run 2	-0.0002 ppm	0.0433 ppm	0.0035 ppm	0.0474 ppm	0.0150 ppm	0.0000 ppm	20.9117 ppm
Concentration per Run 3	0.0002 ppm	0.0168 ppm	-0.0005 ppm	0.0469 ppm	0.0151 ppm	0.0001 ppm	20.9265 ppm
Concentration RSD	189.9 %	71.5 %	183.6 %	0.6 %	6.0 %	232.1 %	6.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0009 ppm	0.0001 ppm	0.0001 ppm	0.0611 ppm	2.5575 ppm	4.8098 ppm
Concentration per Run 1	0.0002 ppm	0.0007 ppm	0.0003 ppm	-0.0001 ppm	0.0623 ppm	2.3434 ppm	4.8364 ppm
Concentration per Run 2	0.0002 ppm	0.0012 ppm	0.0000 ppm	0.0003 ppm	0.0651 ppm	2.6623 ppm	4.7566 ppm
Concentration per Run 3	0.0001 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0558 ppm	2.6668 ppm	4.8364 ppm
Concentration RSD	23.8 %	29.8 %	138.7 %	173.3 %	7.9 %	7.3 %	1.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.3529 ppm	0.0024 ppm	144.9870 ppm	0.0017 ppm	0.0015 ppm	0.0016 ppm	0.0001 ppm
Concentration per Run 1	0.3291 ppm	0.0027 ppm	135.0803 ppm	0.0017 ppm	0.0015 ppm	0.0023 ppm	-0.0031 ppm
Concentration per Run 2	0.3626 ppm	0.0025 ppm	149.4835 ppm	0.0017 ppm	0.0016 ppm	0.0017 ppm	0.0020 ppm
Concentration per Run 3	0.3672 ppm	0.0019 ppm	150.3972 ppm	0.0016 ppm	0.0015 ppm	0.0008 ppm	0.0014 ppm
Concentration RSD	5.9 %	16.9 %	5.9 %	5.6 %	1.9 %	45.0 %	3,351.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9376 ppm	0.0034 ppm	0.0847 ppm	0.0013 ppm	0.0017 ppm	0.0015 ppm	0.0167 ppm
Concentration per Run 1	0.9368 ppm	0.0043 ppm	0.0789 ppm	0.0017 ppm	0.0009 ppm	0.0011 ppm	0.0168 ppm
Concentration per Run 2	0.9393 ppm	0.0029 ppm	0.0872 ppm	0.0008 ppm	0.0021 ppm	0.0017 ppm	0.0167 ppm
Concentration per Run 3	0.9369 ppm	0.0031 ppm	0.0880 ppm	0.0013 ppm	0.0022 ppm	0.0018 ppm	0.0168 ppm
Concentration RSD	0.2 %	23.2 %	5.9 %	36.7 %	39.3 %	25.5 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.0228 %	98.7945 %	97.6447 %	104.1787 %	98.9798 %	100.3025 %
Concentration per Run 1	109.0285 %	98.0937 %	97.8133 %	111.5921 %	99.3133 %	99.5453 %
Concentration per Run 2	98.5178 %	99.8599 %	97.5213 %	100.4485 %	98.7366 %	101.3680 %
Concentration per Run 3	98.5223 %	98.4299 %	97.5994 %	100.4956 %	98.8896 %	99.9941 %
Concentration RSD	5.9 %	0.9 %	0.2 %	6.2 %	0.3 %	0.9 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339397-02 WG1802988
 Analysis started at: 8/2/2023 9:51:41 AM
 Rack: 1
 Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0037 ppm	81.9893 ppm	0.0420 ppm	0.0363 ppm	0.7790 ppm	0.0013 ppm	60.5283 ppm
Concentration per Run 1	0.0032 ppm	79.6086 ppm	0.0437 ppm	0.0366 ppm	0.7570 ppm	0.0013 ppm	58.7758 ppm
Concentration per Run 2	0.0035 ppm	83.0139 ppm	0.0408 ppm	0.0363 ppm	0.7887 ppm	0.0012 ppm	61.3339 ppm
Concentration per Run 3	0.0043 ppm	83.3455 ppm	0.0416 ppm	0.0361 ppm	0.7914 ppm	0.0014 ppm	61.4753 ppm
Concentration RSD	16.0 %	2.5 %	3.6 %	0.7 %	2.5 %	7.6 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0020 ppm	0.0179 ppm	0.1696 ppm	1.3083 ppm	115.8712 ppm	11.9228 ppm	22.9533 ppm
Concentration per Run 1	0.0021 ppm	0.0180 ppm	0.1697 ppm	1.3081 ppm	112.5518 ppm	11.5677 ppm	22.9586 ppm
Concentration per Run 2	0.0020 ppm	0.0178 ppm	0.1694 ppm	1.3084 ppm	117.3514 ppm	12.0869 ppm	22.9461 ppm
Concentration per Run 3	0.0019 ppm	0.0179 ppm	0.1698 ppm	1.3083 ppm	117.7104 ppm	12.1138 ppm	22.9550 ppm
Concentration RSD	5.1 %	0.6 %	0.1 %	0.0 %	2.5 %	2.6 %	0.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.7927 ppm	0.0163 ppm	4.2750 ppm	0.0846 ppm	0.1111 ppm	0.0618 ppm	0.0193 ppm
Concentration per Run 1	0.7702 ppm	0.0165 ppm	4.1693 ppm	0.0851 ppm	0.1119 ppm	0.0601 ppm	0.0188 ppm
Concentration per Run 2	0.8019 ppm	0.0161 ppm	4.3068 ppm	0.0842 ppm	0.1113 ppm	0.0639 ppm	0.0172 ppm
Concentration per Run 3	0.8058 ppm	0.0163 ppm	4.3490 ppm	0.0846 ppm	0.1101 ppm	0.0613 ppm	0.0220 ppm
Concentration RSD	2.5 %	1.2 %	2.2 %	0.5 %	0.8 %	3.2 %	12.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0972 ppm	0.0972 ppm	0.6386 ppm	0.2477 ppm	0.0002 ppm	0.0830 ppm	1.9051 ppm
Concentration per Run 1	10.1114 ppm	0.0979 ppm	0.6205 ppm	0.2479 ppm	0.0016 ppm	0.0830 ppm	1.9082 ppm
Concentration per Run 2	10.0770 ppm	0.0964 ppm	0.6458 ppm	0.2474 ppm	0.0000 ppm	0.0831 ppm	1.9002 ppm
Concentration per Run 3	10.1032 ppm	0.0972 ppm	0.6497 ppm	0.2479 ppm	-0.0011 ppm	0.0831 ppm	1.9070 ppm
Concentration RSD	0.2 %	0.8 %	2.5 %	0.1 %	835.3 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	114.5944 %	109.2165 %	107.4263 %	111.6411 %	104.5819 %	105.7639 %
Concentration per Run 1	117.4452 %	109.5841 %	107.5698 %	114.5290 %	104.6298 %	106.0503 %
Concentration per Run 2	113.3597 %	109.3230 %	107.5610 %	110.2508 %	104.8988 %	105.8423 %
Concentration per Run 3	112.9784 %	108.7424 %	107.1480 %	110.1437 %	104.2170 %	105.3991 %
Concentration RSD	2.2 %	0.4 %	0.2 %	2.2 %	0.3 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339423-01d2 WG1802988
 Analysis started at: 8/2/2023 9:56:04 AM
 Rack: 1
 Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	143.2149 ppm	0.0538 ppm	0.0758 ppm	0.9699 ppm	0.0094 ppm	287.1739 ppm
Concentration per Run 1	-0.0010 ppm	139.6419 ppm	0.0523 ppm	0.0757 ppm	0.9457 ppm	0.0091 ppm	279.6092 ppm
Concentration per Run 2	0.0001 ppm	147.3314 ppm	0.0543 ppm	0.0752 ppm	0.9976 ppm	0.0097 ppm	295.6869 ppm
Concentration per Run 3	-0.0009 ppm	142.6713 ppm	0.0547 ppm	0.0764 ppm	0.9665 ppm	0.0094 ppm	286.2256 ppm
Concentration RSD	99.1 %	2.7 %	2.3 %	0.8 %	2.7 %	3.5 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0007 ppm	0.0794 ppm	0.1623 ppm	0.1614 ppm	259.8893 ppm	9.4118 ppm	76.3357 ppm
Concentration per Run 1	-0.0005 ppm	0.0794 ppm	0.1679 ppm	0.1659 ppm	253.0803 ppm	9.2092 ppm	78.4361 ppm
Concentration per Run 2	-0.0008 ppm	0.0795 ppm	0.1596 ppm	0.1593 ppm	267.5384 ppm	9.7441 ppm	75.2640 ppm
Concentration per Run 3	-0.0007 ppm	0.0794 ppm	0.1595 ppm	0.1589 ppm	259.0492 ppm	9.2821 ppm	75.3071 ppm
Concentration RSD	22.1 %	0.1 %	3.0 %	2.4 %	2.8 %	3.1 %	2.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	5.3671 ppm	0.0045 ppm	4.8494 ppm	0.1802 ppm	0.3182 ppm	0.0204 ppm	-0.0047 ppm
Concentration per Run 1	5.2357 ppm	0.0047 ppm	4.7174 ppm	0.1797 ppm	0.3190 ppm	0.0192 ppm	-0.0037 ppm
Concentration per Run 2	5.5193 ppm	0.0043 ppm	5.0045 ppm	0.1806 ppm	0.3185 ppm	0.0228 ppm	-0.0049 ppm
Concentration per Run 3	5.3463 ppm	0.0044 ppm	4.8264 ppm	0.1804 ppm	0.3171 ppm	0.0191 ppm	-0.0056 ppm
Concentration RSD	2.7 %	4.4 %	3.0 %	0.3 %	0.3 %	10.5 %	19.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	17.5730 ppm	0.0060 ppm	0.5671 ppm	0.4464 ppm	0.0013 ppm	0.2029 ppm	1.5760 ppm
Concentration per Run 1	17.5779 ppm	0.0053 ppm	0.5530 ppm	0.4589 ppm	0.0008 ppm	0.2084 ppm	1.5772 ppm
Concentration per Run 2	17.5508 ppm	0.0065 ppm	0.5839 ppm	0.4395 ppm	0.0021 ppm	0.1997 ppm	1.5757 ppm
Concentration per Run 3	17.5902 ppm	0.0061 ppm	0.5645 ppm	0.4406 ppm	0.0009 ppm	0.2007 ppm	1.5752 ppm
Concentration RSD	0.1 %	10.3 %	2.8 %	2.4 %	56.5 %	2.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	133.4156 %	122.6903 %	124.3391 %	110.8225 %	99.7959 %	101.4912 %
Concentration per Run 1	135.3578 %	120.2106 %	124.4338 %	112.8706 %	99.8074 %	99.0105 %
Concentration per Run 2	131.3881 %	124.2446 %	124.0633 %	108.2053 %	99.8308 %	103.0101 %
Concentration per Run 3	133.5008 %	123.6156 %	124.5203 %	111.3914 %	99.7495 %	102.4530 %
Concentration RSD	1.5 %	1.8 %	0.2 %	2.2 %	0.0 %	2.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339907-02d2 WG1802988
 Analysis started at: 8/2/2023 10:00:23 AM
 Rack: 1
 Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0007 ppm	50.2556 ppm	0.0333 ppm	0.0208 ppm	0.3502 ppm	0.0039 ppm	26.2446 ppm
Concentration per Run 1	-0.0007 ppm	47.8214 ppm	0.0334 ppm	0.0202 ppm	0.3339 ppm	0.0035 ppm	25.0105 ppm
Concentration per Run 2	-0.0008 ppm	51.3659 ppm	0.0339 ppm	0.0209 ppm	0.3573 ppm	0.0041 ppm	26.8430 ppm
Concentration per Run 3	-0.0005 ppm	51.5796 ppm	0.0327 ppm	0.0212 ppm	0.3595 ppm	0.0039 ppm	26.8802 ppm
Concentration RSD	28.9 %	4.2 %	1.9 %	2.2 %	4.1 %	7.7 %	4.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0005 ppm	0.0391 ppm	0.0776 ppm	0.0902 ppm	137.3964 ppm	4.3496 ppm	19.1268 ppm
Concentration per Run 1	0.0005 ppm	0.0388 ppm	0.0773 ppm	0.0906 ppm	130.8076 ppm	4.1697 ppm	19.1323 ppm
Concentration per Run 2	0.0005 ppm	0.0393 ppm	0.0776 ppm	0.0899 ppm	140.4049 ppm	4.4226 ppm	19.0983 ppm
Concentration per Run 3	0.0006 ppm	0.0393 ppm	0.0781 ppm	0.0903 ppm	140.9766 ppm	4.4566 ppm	19.1497 ppm
Concentration RSD	7.5 %	0.8 %	0.5 %	0.4 %	4.2 %	3.6 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.1263 ppm	0.0011 ppm	0.8834 ppm	0.0870 ppm	0.1971 ppm	0.0070 ppm	-0.0022 ppm
Concentration per Run 1	3.9260 ppm	0.0011 ppm	0.8495 ppm	0.0872 ppm	0.1968 ppm	0.0092 ppm	-0.0033 ppm
Concentration per Run 2	4.2190 ppm	0.0009 ppm	0.8872 ppm	0.0872 ppm	0.1970 ppm	0.0060 ppm	-0.0034 ppm
Concentration per Run 3	4.2340 ppm	0.0013 ppm	0.9134 ppm	0.0865 ppm	0.1975 ppm	0.0059 ppm	0.0002 ppm
Concentration RSD	4.2 %	18.8 %	3.6 %	0.5 %	0.2 %	26.5 %	94.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	12.9050 ppm	0.0042 ppm	0.0834 ppm	0.7796 ppm	0.0015 ppm	0.1525 ppm	0.5401 ppm
Concentration per Run 1	12.8908 ppm	0.0041 ppm	0.0795 ppm	0.7781 ppm	0.0014 ppm	0.1523 ppm	0.5402 ppm
Concentration per Run 2	12.9126 ppm	0.0049 ppm	0.0848 ppm	0.7806 ppm	0.0006 ppm	0.1532 ppm	0.5399 ppm
Concentration per Run 3	12.9117 ppm	0.0035 ppm	0.0859 ppm	0.7801 ppm	0.0025 ppm	0.1521 ppm	0.5400 ppm
Concentration RSD	0.1 %	16.6 %	4.1 %	0.2 %	62.3 %	0.4 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	134.2745 %	132.2767 %	131.3497 %	106.5332 %	103.4405 %	104.1464 %
Concentration per Run 1	138.4338 %	132.4448 %	131.3658 %	110.9406 %	103.4202 %	104.3055 %
Concentration per Run 2	131.2483 %	132.3765 %	131.3248 %	103.7291 %	103.6378 %	104.2582 %
Concentration per Run 3	133.1415 %	132.0088 %	131.3587 %	104.9299 %	103.2634 %	103.8754 %
Concentration RSD	2.8 %	0.2 %	0.0 %	3.6 %	0.2 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1802988-3d2 WG1802988
 Analysis started at: 8/2/2023 10:04:48 AM
 Rack: 1
 Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0459 ppm	52.6732 ppm	0.1464 ppm	0.9690 ppm	2.2975 ppm	0.0548 ppm	34.4409 ppm
Concentration per Run 1	0.0454 ppm	50.0869 ppm	0.1471 ppm	0.9677 ppm	2.1814 ppm	0.0520 ppm	32.7272 ppm
Concentration per Run 2	0.0457 ppm	53.7079 ppm	0.1462 ppm	0.9689 ppm	2.3435 ppm	0.0561 ppm	35.1461 ppm
Concentration per Run 3	0.0468 ppm	54.2247 ppm	0.1459 ppm	0.9704 ppm	2.3676 ppm	0.0563 ppm	35.4493 ppm
Concentration RSD	1.6 %	4.3 %	0.5 %	0.1 %	4.4 %	4.4 %	4.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0528 ppm	0.5140 ppm	0.2699 ppm	0.3321 ppm	136.7556 ppm	14.4050 ppm	30.5323 ppm
Concentration per Run 1	0.0527 ppm	0.5133 ppm	0.2693 ppm	0.3322 ppm	129.8744 ppm	13.6923 ppm	30.5280 ppm
Concentration per Run 2	0.0528 ppm	0.5148 ppm	0.2699 ppm	0.3318 ppm	139.4367 ppm	14.7579 ppm	30.5577 ppm
Concentration per Run 3	0.0528 ppm	0.5139 ppm	0.2706 ppm	0.3323 ppm	140.9556 ppm	14.7648 ppm	30.5112 ppm
Concentration RSD	0.0 %	0.1 %	0.2 %	0.1 %	4.4 %	4.3 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.2275 ppm	0.9015 ppm	10.8639 ppm	0.5578 ppm	0.5794 ppm	0.3611 ppm	0.1130 ppm
Concentration per Run 1	4.0201 ppm	0.8993 ppm	10.3370 ppm	0.5568 ppm	0.5794 ppm	0.3596 ppm	0.1135 ppm
Concentration per Run 2	4.3078 ppm	0.9025 ppm	11.0689 ppm	0.5597 ppm	0.5775 ppm	0.3630 ppm	0.1099 ppm
Concentration per Run 3	4.3547 ppm	0.9029 ppm	11.1859 ppm	0.5569 ppm	0.5813 ppm	0.3606 ppm	0.1157 ppm
Concentration RSD	4.3 %	0.2 %	4.2 %	0.3 %	0.3 %	0.5 %	2.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.2834 ppm	0.9208 ppm	1.0515 ppm	1.9663 ppm	0.1142 ppm	0.6331 ppm	0.8458 ppm
Concentration per Run 1	10.2709 ppm	0.9193 ppm	0.9984 ppm	1.9650 ppm	0.1149 ppm	0.6328 ppm	0.8448 ppm
Concentration per Run 2	10.2884 ppm	0.9220 ppm	1.0713 ppm	1.9674 ppm	0.1127 ppm	0.6336 ppm	0.8466 ppm
Concentration per Run 3	10.2907 ppm	0.9209 ppm	1.0848 ppm	1.9665 ppm	0.1149 ppm	0.6328 ppm	0.8461 ppm
Concentration RSD	0.1 %	0.1 %	4.4 %	0.1 %	1.1 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	130.5071 %	128.3899 %	127.2793 %	106.7646 %	102.6013 %	103.9130 %
Concentration per Run 1	133.7462 %	128.2869 %	127.2952 %	110.6150 %	102.7152 %	103.9477 %
Concentration per Run 2	128.8205 %	128.3156 %	127.1127 %	104.7647 %	102.5570 %	103.8338 %
Concentration per Run 3	128.9545 %	128.5671 %	127.4300 %	104.9140 %	102.5315 %	103.9574 %
Concentration RSD	2.2 %	0.1 %	0.1 %	3.1 %	0.1 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1802988-4d2 WG1802988
 Analysis started at: 8/2/2023 10:09:07 AM
 Rack: 1
 Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0465 ppm	59.0577 ppm	0.1573 ppm	0.9904 ppm	2.4049 ppm	0.0578 ppm	36.1908 ppm
Concentration per Run 1	0.0471 ppm	56.1675 ppm	0.1586 ppm	0.9914 ppm	2.2877 ppm	0.0552 ppm	34.4213 ppm
Concentration per Run 2	0.0465 ppm	60.2422 ppm	0.1556 ppm	0.9889 ppm	2.4546 ppm	0.0588 ppm	36.8885 ppm
Concentration per Run 3	0.0458 ppm	60.7635 ppm	0.1578 ppm	0.9909 ppm	2.4724 ppm	0.0594 ppm	37.2625 ppm
Concentration RSD	1.4 %	4.3 %	1.0 %	0.1 %	4.2 %	4.0 %	4.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0539 ppm	0.5293 ppm	0.2779 ppm	0.3469 ppm	148.9937 ppm	15.2403 ppm	32.6975 ppm
Concentration per Run 1	0.0540 ppm	0.5297 ppm	0.2781 ppm	0.3462 ppm	141.6203 ppm	14.4877 ppm	32.6698 ppm
Concentration per Run 2	0.0538 ppm	0.5285 ppm	0.2778 ppm	0.3480 ppm	152.0647 ppm	15.5328 ppm	32.6720 ppm
Concentration per Run 3	0.0540 ppm	0.5297 ppm	0.2777 ppm	0.3464 ppm	153.2962 ppm	15.7005 ppm	32.7508 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	0.3 %	4.3 %	4.3 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	5.5840 ppm	0.9242 ppm	11.3244 ppm	0.5771 ppm	0.6243 ppm	0.3284 ppm	0.1158 ppm
Concentration per Run 1	5.3081 ppm	0.9234 ppm	10.7833 ppm	0.5782 ppm	0.6240 ppm	0.3277 ppm	0.1160 ppm
Concentration per Run 2	5.6961 ppm	0.9220 ppm	11.5305 ppm	0.5769 ppm	0.6236 ppm	0.3282 ppm	0.1168 ppm
Concentration per Run 3	5.7479 ppm	0.9271 ppm	11.6594 ppm	0.5763 ppm	0.6253 ppm	0.3294 ppm	0.1147 ppm
Concentration RSD	4.3 %	0.3 %	4.2 %	0.2 %	0.1 %	0.3 %	0.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	13.7444 ppm	0.9448 ppm	1.0804 ppm	2.7632 ppm	0.1180 ppm	0.6553 ppm	0.9721 ppm
Concentration per Run 1	13.7652 ppm	0.9454 ppm	1.0277 ppm	2.7554 ppm	0.1178 ppm	0.6555 ppm	0.9728 ppm
Concentration per Run 2	13.7179 ppm	0.9444 ppm	1.1019 ppm	2.7699 ppm	0.1203 ppm	0.6551 ppm	0.9702 ppm
Concentration per Run 3	13.7500 ppm	0.9445 ppm	1.1116 ppm	2.7643 ppm	0.1160 ppm	0.6553 ppm	0.9732 ppm
Concentration RSD	0.2 %	0.1 %	4.2 %	0.3 %	1.8 %	0.0 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	132.1718 %	131.0443 %	128.3127 %	106.1800 %	102.0058 %	103.8937 %
Concentration per Run 1	135.2989 %	130.4502 %	128.2102 %	110.0174 %	101.8662 %	103.6004 %
Concentration per Run 2	130.6137 %	131.3974 %	128.8918 %	104.5650 %	102.4221 %	104.2081 %
Concentration per Run 3	130.6026 %	131.2851 %	127.8361 %	103.9577 %	101.7293 %	103.8727 %
Concentration RSD	2.0 %	0.4 %	0.4 %	3.1 %	0.4 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1802988-5d2 WG1802988
 Analysis started at: 8/2/2023 10:13:26 AM
 Rack: 1
 Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0284 ppm	50.8520 ppm	0.1506 ppm	1.0036 ppm	2.3361 ppm	0.0552 ppm	35.6148 ppm
Concentration per Run 1	0.0292 ppm	48.8180 ppm	0.1491 ppm	1.0016 ppm	2.2439 ppm	0.0530 ppm	34.2312 ppm
Concentration per Run 2	0.0278 ppm	51.6652 ppm	0.1504 ppm	1.0026 ppm	2.3719 ppm	0.0564 ppm	36.1792 ppm
Concentration per Run 3	0.0282 ppm	52.0729 ppm	0.1523 ppm	1.0065 ppm	2.3926 ppm	0.0561 ppm	36.4341 ppm
Concentration RSD	2.5 %	3.5 %	1.1 %	0.3 %	3.4 %	3.4 %	3.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0528 ppm	0.5075 ppm	0.2693 ppm	0.3386 ppm	134.2105 ppm	14.7736 ppm	28.2401 ppm
Concentration per Run 1	0.0527 ppm	0.5066 ppm	0.2698 ppm	0.3377 ppm	128.8848 ppm	14.2288 ppm	28.2752 ppm
Concentration per Run 2	0.0528 ppm	0.5072 ppm	0.2689 ppm	0.3387 ppm	136.3074 ppm	15.0410 ppm	28.2346 ppm
Concentration per Run 3	0.0529 ppm	0.5085 ppm	0.2691 ppm	0.3394 ppm	137.4392 ppm	15.0512 ppm	28.2106 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	0.3 %	3.5 %	3.2 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.4988 ppm	0.9351 ppm	11.1391 ppm	0.5486 ppm	0.6917 ppm	0.4565 ppm	0.1151 ppm
Concentration per Run 1	4.3229 ppm	0.9309 ppm	10.7460 ppm	0.5480 ppm	0.6921 ppm	0.4532 ppm	0.1138 ppm
Concentration per Run 2	4.5728 ppm	0.9357 ppm	11.2957 ppm	0.5488 ppm	0.6902 ppm	0.4584 ppm	0.1169 ppm
Concentration per Run 3	4.6007 ppm	0.9387 ppm	11.3758 ppm	0.5490 ppm	0.6929 ppm	0.4579 ppm	0.1147 ppm
Concentration RSD	3.4 %	0.4 %	3.1 %	0.1 %	0.2 %	0.6 %	1.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	13.4186 ppm	0.9506 ppm	1.0748 ppm	1.7447 ppm	0.1171 ppm	0.6315 ppm	0.9832 ppm
Concentration per Run 1	13.4143 ppm	0.9502 ppm	1.0322 ppm	1.7412 ppm	0.1174 ppm	0.6324 ppm	0.9825 ppm
Concentration per Run 2	13.4095 ppm	0.9500 ppm	1.0918 ppm	1.7479 ppm	0.1168 ppm	0.6310 ppm	0.9828 ppm
Concentration per Run 3	13.4321 ppm	0.9514 ppm	1.1003 ppm	1.7449 ppm	0.1171 ppm	0.6309 ppm	0.9843 ppm
Concentration RSD	0.1 %	0.1 %	3.5 %	0.2 %	0.2 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	133.3406 %	132.0192 %	129.8623 %	106.6231 %	103.6727 %	104.4620 %
Concentration per Run 1	136.8368 %	132.1024 %	129.7286 %	110.4815 %	103.6681 %	104.5312 %
Concentration per Run 2	131.7043 %	131.9291 %	130.0990 %	105.0718 %	103.9019 %	104.4568 %
Concentration per Run 3	131.4808 %	132.0260 %	129.7591 %	104.3158 %	103.4481 %	104.3979 %
Concentration RSD	2.3 %	0.1 %	0.2 %	3.2 %	0.2 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1802988-6d10 WG1802988
 Analysis started at: 8/2/2023 10:17:45 AM
 Rack: 1
 Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	10.3725 ppm	0.0074 ppm	0.0070 ppm	0.0715 ppm	0.0007 ppm	5.4108 ppm
Concentration per Run 1	0.0002 ppm	9.8740 ppm	0.0068 ppm	0.0064 ppm	0.0680 ppm	0.0008 ppm	5.1423 ppm
Concentration per Run 2	-0.0007 ppm	10.6026 ppm	0.0071 ppm	0.0069 ppm	0.0732 ppm	0.0007 ppm	5.5199 ppm
Concentration per Run 3	0.0002 ppm	10.6407 ppm	0.0084 ppm	0.0078 ppm	0.0734 ppm	0.0007 ppm	5.5702 ppm
Concentration RSD	545.8 %	4.2 %	11.4 %	9.9 %	4.3 %	9.7 %	4.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0081 ppm	0.0162 ppm	0.0178 ppm	28.1322 ppm	0.8804 ppm	3.9557 ppm
Concentration per Run 1	0.0001 ppm	0.0079 ppm	0.0164 ppm	0.0181 ppm	26.6982 ppm	0.8857 ppm	3.9559 ppm
Concentration per Run 2	0.0001 ppm	0.0080 ppm	0.0159 ppm	0.0175 ppm	28.7507 ppm	0.9334 ppm	3.9615 ppm
Concentration per Run 3	0.0001 ppm	0.0082 ppm	0.0163 ppm	0.0177 ppm	28.9478 ppm	0.8222 ppm	3.9497 ppm
Concentration RSD	35.7 %	2.3 %	1.7 %	1.8 %	4.4 %	6.3 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.8533 ppm	0.0032 ppm	0.1949 ppm	0.0175 ppm	0.0400 ppm	0.0024 ppm	-0.0020 ppm
Concentration per Run 1	0.8113 ppm	0.0035 ppm	0.1858 ppm	0.0177 ppm	0.0399 ppm	0.0006 ppm	-0.0029 ppm
Concentration per Run 2	0.8722 ppm	0.0033 ppm	0.1886 ppm	0.0174 ppm	0.0402 ppm	0.0035 ppm	-0.0044 ppm
Concentration per Run 3	0.8764 ppm	0.0026 ppm	0.2104 ppm	0.0175 ppm	0.0401 ppm	0.0030 ppm	0.0015 ppm
Concentration RSD	4.3 %	15.8 %	6.9 %	0.8 %	0.4 %	66.2 %	157.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.5843 ppm	0.0024 ppm	0.0174 ppm	0.1594 ppm	0.0002 ppm	0.0311 ppm	0.1100 ppm
Concentration per Run 1	2.5829 ppm	0.0022 ppm	0.0165 ppm	0.1590 ppm	0.0004 ppm	0.0311 ppm	0.1099 ppm
Concentration per Run 2	2.5823 ppm	0.0026 ppm	0.0178 ppm	0.1605 ppm	-0.0004 ppm	0.0311 ppm	0.1102 ppm
Concentration per Run 3	2.5876 ppm	0.0025 ppm	0.0180 ppm	0.1589 ppm	0.0006 ppm	0.0312 ppm	0.1097 ppm
Concentration RSD	0.1 %	7.5 %	4.4 %	0.6 %	283.8 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.0584 %	107.9489 %	106.9039 %	104.5935 %	102.7635 %	102.7897 %
Concentration per Run 1	113.6117 %	108.4907 %	106.5802 %	108.8078 %	102.5144 %	103.2365 %
Concentration per Run 2	106.9437 %	107.4643 %	107.0558 %	102.7979 %	102.8697 %	102.3860 %
Concentration per Run 3	106.6197 %	107.8917 %	107.0755 %	102.1747 %	102.9063 %	102.7465 %
Concentration RSD	3.6 %	0.5 %	0.3 %	3.5 %	0.2 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCV
 Analysis started at: 8/2/2023 10:22:12 AM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5112 ppm	0.5158 ppm	0.4825 ppm	0.4896 ppm	0.5081 ppm	0.5061 ppm	0.4999 ppm
Concentration per Run 1	0.5107 ppm	0.4819 ppm	0.4824 ppm	0.4875 ppm	0.4786 ppm	0.4768 ppm	0.4626 ppm
Concentration per Run 2	0.5105 ppm	0.5336 ppm	0.4802 ppm	0.4899 ppm	0.5211 ppm	0.5181 ppm	0.5195 ppm
Concentration per Run 3	0.5125 ppm	0.5318 ppm	0.4850 ppm	0.4915 ppm	0.5246 ppm	0.5232 ppm	0.5175 ppm
Recovery Percentage 1	102.242 %	103.152 %	96.509 %	97.923 %	101.619 %	101.210 %	99.977 %
Concentration RSD	0.2 %	5.7 %	0.5 %	0.4 %	5.0 %	5.0 %	6.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4954 ppm	0.4981 ppm	0.5014 ppm	0.5072 ppm	0.5391 ppm	5.3793 ppm	0.5052 ppm
Concentration per Run 1	0.4944 ppm	0.4975 ppm	0.5005 ppm	0.5072 ppm	0.5047 ppm	5.0871 ppm	0.5057 ppm
Concentration per Run 2	0.4951 ppm	0.4974 ppm	0.5034 ppm	0.5080 ppm	0.5461 ppm	5.4916 ppm	0.5067 ppm
Concentration per Run 3	0.4967 ppm	0.4993 ppm	0.5004 ppm	0.5065 ppm	0.5664 ppm	5.5590 ppm	0.5032 ppm
Recovery Percentage 1	99.084 %	99.618 %	100.286 %	101.445 %	107.812 %	107.585 %	101.038 %
Concentration RSD	0.2 %	0.2 %	0.3 %	0.1 %	5.8 %	4.7 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5140 ppm	0.4842 ppm	10.3766 ppm	0.5032 ppm	0.4930 ppm	0.4855 ppm	0.4932 ppm
Concentration per Run 1	0.4842 ppm	0.4828 ppm	9.7895 ppm	0.5017 ppm	0.4935 ppm	0.4833 ppm	0.4937 ppm
Concentration per Run 2	0.5257 ppm	0.4839 ppm	10.6423 ppm	0.5020 ppm	0.4910 ppm	0.4849 ppm	0.4942 ppm
Concentration per Run 3	0.5321 ppm	0.4859 ppm	10.6980 ppm	0.5058 ppm	0.4944 ppm	0.4883 ppm	0.4918 ppm
Recovery Percentage 1	102.808 %	96.847 %	103.766 %	100.634 %	98.594 %	97.103 %	98.648 %
Concentration RSD	5.1 %	0.3 %	4.9 %	0.4 %	0.4 %	0.5 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1229 ppm	0.4848 ppm	0.5040 ppm	0.5012 ppm	0.4964 ppm	0.4953 ppm	0.4927 ppm
Concentration per Run 1	5.1174 ppm	0.4837 ppm	0.4742 ppm	0.4996 ppm	0.4946 ppm	0.4952 ppm	0.4919 ppm
Concentration per Run 2	5.1180 ppm	0.4848 ppm	0.5173 ppm	0.5017 ppm	0.4979 ppm	0.4962 ppm	0.4918 ppm
Concentration per Run 3	5.1333 ppm	0.4858 ppm	0.5205 ppm	0.5022 ppm	0.4966 ppm	0.4943 ppm	0.4943 ppm
Recovery Percentage 1	102.458 %	96.953 %	100.805 %	100.235 %	99.274 %	99.051 %	98.535 %
Concentration RSD	0.2 %	0.2 %	5.1 %	0.3 %	0.3 %	0.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.3928 %	102.0881 %	100.0084 %	104.1025 %	102.3281 %	102.5182 %
Concentration per Run 1	106.8779 %	102.3190 %	100.0399 %	108.6352 %	102.4943 %	102.8264 %
Concentration per Run 2	100.3862 %	102.3508 %	100.1050 %	102.3306 %	102.5838 %	102.6940 %
Concentration per Run 3	99.9145 %	101.5946 %	99.8803 %	101.3418 %	101.9062 %	102.0342 %
Recovery Percentage 1						
Concentration RSD	3.8 %	0.4 %	0.1 %	3.8 %	0.4 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCB
 Analysis started at: 8/2/2023 10:26:33 AM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0098 ppm	0.0008 ppm	0.0017 ppm	0.0003 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run 1	0.0001 ppm	-0.0039 ppm	0.0019 ppm	0.0019 ppm	0.0006 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 2	-0.0006 ppm	-0.0030 ppm	0.0013 ppm	0.0018 ppm	0.0000 ppm	0.0002 ppm	0.0014 ppm
Concentration per Run 3	0.0005 ppm	-0.0225 ppm	-0.0010 ppm	0.0013 ppm	0.0003 ppm	0.0001 ppm	-0.0067 ppm
Recovery Percentage 1	-0.046 %	-9.808 %	15.119 %	5.584 %	2.947 %	1.623 %	-0.360 %
Concentration RSD	16,238.8 %	112.1 %	200.0 %	18.1 %	94.0 %	117.7 %	1,561.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0002 ppm	0.0007 ppm	-0.0001 ppm	0.0121 ppm	0.0251 ppm	0.0035 ppm
Concentration per Run 1	0.0003 ppm	0.0003 ppm	0.0008 ppm	-0.0003 ppm	0.0085 ppm	-0.0149 ppm	0.0045 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0142 ppm	0.0906 ppm	0.0038 ppm
Concentration per Run 3	0.0002 ppm	0.0000 ppm	0.0010 ppm	0.0001 ppm	0.0135 ppm	-0.0005 ppm	0.0021 ppm
Recovery Percentage 1	5.985 %	0.763 %	7.382 %	-0.657 %	24.178 %	1.003 %	3.453 %
Concentration RSD	18.9 %	81.3 %	40.1 %	377.7 %	25.6 %	228.0 %	36.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0011 ppm	0.0016 ppm	0.0166 ppm	0.0004 ppm	-0.0001 ppm	0.0029 ppm	0.0012 ppm
Concentration per Run 1	0.0012 ppm	0.0018 ppm	0.0056 ppm	0.0006 ppm	0.0002 ppm	0.0023 ppm	0.0067 ppm
Concentration per Run 2	0.0013 ppm	0.0015 ppm	0.0163 ppm	0.0008 ppm	-0.0002 ppm	0.0037 ppm	-0.0028 ppm
Concentration per Run 3	0.0008 ppm	0.0014 ppm	0.0278 ppm	-0.0001 ppm	-0.0002 ppm	0.0028 ppm	-0.0002 ppm
Recovery Percentage 1	10.776 %	3.102 %	0.829 %	1.665 %	-0.903 %	5.886 %	12.139 %
Concentration RSD	25.6 %	12.2 %	67.1 %	106.2 %	266.6 %	24.1 %	402.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0042 ppm	0.0013 ppm	0.0007 ppm	0.0005 ppm	0.0007 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 1	0.0059 ppm	0.0020 ppm	0.0005 ppm	0.0002 ppm	0.0013 ppm	0.0010 ppm	0.0004 ppm
Concentration per Run 2	0.0040 ppm	0.0008 ppm	0.0008 ppm	0.0008 ppm	-0.0001 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 3	0.0029 ppm	0.0011 ppm	0.0009 ppm	0.0004 ppm	0.0011 ppm	0.0004 ppm	0.0002 ppm
Recovery Percentage 1	0.850 %	2.609 %	7.209 %	4.787 %	3.735 %	7.332 %	6.334 %
Concentration RSD	35.6 %	44.8 %	24.2 %	65.9 %	100.8 %	44.4 %	29.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.3351 %	102.6392 %	101.4492 %	102.1191 %	102.2164 %	101.2202 %
Concentration per Run 1	105.9643 %	102.4587 %	101.7496 %	104.2904 %	102.5548 %	100.9199 %
Concentration per Run 2	102.0591 %	102.1380 %	101.2738 %	100.9774 %	101.9021 %	100.8528 %
Concentration per Run 3	101.9818 %	103.3209 %	101.3243 %	101.0894 %	102.1923 %	101.8880 %
Recovery Percentage 1						
Concentration RSD	2.2 %	0.6 %	0.3 %	1.8 %	0.3 %	0.6 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339423-02d2 WG1802988
 Analysis started at: 8/2/2023 10:55:27 AM
 Rack: 1
 Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	95.7177 ppm	0.0915 ppm	0.0639 ppm	0.8699 ppm	0.0078 ppm	378.9508 ppm
Concentration per Run 1	0.0008 ppm	92.8847 ppm	0.0912 ppm	0.0647 ppm	0.8434 ppm	0.0075 ppm	367.5648 ppm
Concentration per Run 2	-0.0002 ppm	97.3169 ppm	0.0916 ppm	0.0638 ppm	0.8840 ppm	0.0079 ppm	385.3304 ppm
Concentration per Run 3	0.0006 ppm	96.9517 ppm	0.0916 ppm	0.0632 ppm	0.8822 ppm	0.0078 ppm	383.9573 ppm
Concentration RSD	130.4 %	2.6 %	0.2 %	1.2 %	2.6 %	2.6 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0056 ppm	0.0792 ppm	0.5195 ppm	0.4524 ppm	552.0057 ppm	7.7893 ppm	81.2096 ppm
Concentration per Run 1	0.0060 ppm	0.0797 ppm	0.5185 ppm	0.4505 ppm	526.6862 ppm	7.5543 ppm	81.3056 ppm
Concentration per Run 2	0.0054 ppm	0.0792 ppm	0.5213 ppm	0.4535 ppm	568.0770 ppm	7.9272 ppm	81.2900 ppm
Concentration per Run 3	0.0054 ppm	0.0788 ppm	0.5188 ppm	0.4531 ppm	561.2539 ppm	7.8864 ppm	81.0334 ppm
Concentration RSD	5.6 %	0.6 %	0.3 %	0.4 %	4.0 %	2.6 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	7.2610 ppm	0.0098 ppm	1.5606 ppm	0.3209 ppm	5.3557 ppm	0.0366 ppm	-0.0044 ppm
Concentration per Run 1	7.0481 ppm	0.0098 ppm	1.5034 ppm	0.3202 ppm	5.3851 ppm	0.0402 ppm	-0.0054 ppm
Concentration per Run 2	7.3833 ppm	0.0096 ppm	1.5850 ppm	0.3240 ppm	5.3700 ppm	0.0340 ppm	-0.0032 ppm
Concentration per Run 3	7.3517 ppm	0.0100 ppm	1.5934 ppm	0.3183 ppm	5.3120 ppm	0.0357 ppm	-0.0047 ppm
Concentration RSD	2.5 %	2.2 %	3.2 %	0.9 %	0.7 %	8.7 %	25.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	17.6782 ppm	0.0275 ppm	0.6770 ppm	1.1246 ppm	0.0064 ppm	0.1946 ppm	1.3043 ppm
Concentration per Run 1	17.7796 ppm	0.0270 ppm	0.6560 ppm	1.1263 ppm	0.0082 ppm	0.1950 ppm	1.3114 ppm
Concentration per Run 2	17.7295 ppm	0.0277 ppm	0.6881 ppm	1.1241 ppm	0.0049 ppm	0.1944 ppm	1.3077 ppm
Concentration per Run 3	17.5255 ppm	0.0278 ppm	0.6870 ppm	1.1232 ppm	0.0062 ppm	0.1945 ppm	1.2937 ppm
Concentration RSD	0.8 %	1.7 %	2.7 %	0.1 %	25.7 %	0.2 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	128.4878 %	121.3020 %	119.8523 %	106.9065 %	99.6401 %	101.7666 %
Concentration per Run 1	130.3724 %	120.8703 %	119.5598 %	109.4892 %	99.0471 %	101.4818 %
Concentration per Run 2	127.3442 %	121.1581 %	119.6800 %	105.2444 %	99.5130 %	101.7238 %
Concentration per Run 3	127.7467 %	121.8776 %	120.3171 %	105.9858 %	100.3601 %	102.0943 %
Concentration RSD	1.3 %	0.4 %	0.3 %	2.1 %	0.7 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339423-03d2 WG1802988
 Analysis started at: 8/2/2023 10:59:55 AM
 Rack: 1
 Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	151.0548 ppm	0.0570 ppm	0.0638 ppm	1.3447 ppm	0.0130 ppm	165.4940 ppm
Concentration per Run 1	-0.0009 ppm	147.2506 ppm	0.0563 ppm	0.0637 ppm	1.3112 ppm	0.0126 ppm	161.3682 ppm
Concentration per Run 2	-0.0011 ppm	152.7911 ppm	0.0579 ppm	0.0629 ppm	1.3593 ppm	0.0131 ppm	167.3467 ppm
Concentration per Run 3	0.0006 ppm	153.1228 ppm	0.0567 ppm	0.0648 ppm	1.3635 ppm	0.0132 ppm	167.7670 ppm
Concentration RSD	191.1 %	2.2 %	1.5 %	1.5 %	2.2 %	2.7 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0003 ppm	0.1421 ppm	0.2056 ppm	0.1829 ppm	326.2072 ppm	10.7900 ppm	65.1097 ppm
Concentration per Run 1	-0.0004 ppm	0.1424 ppm	0.2059 ppm	0.1835 ppm	320.4363 ppm	10.5389 ppm	65.1370 ppm
Concentration per Run 2	-0.0004 ppm	0.1418 ppm	0.2053 ppm	0.1827 ppm	330.5357 ppm	10.9021 ppm	65.1515 ppm
Concentration per Run 3	-0.0003 ppm	0.1419 ppm	0.2056 ppm	0.1824 ppm	327.6497 ppm	10.9290 ppm	65.0406 ppm
Concentration RSD	7.4 %	0.2 %	0.2 %	0.3 %	1.6 %	2.0 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	6.4748 ppm	0.0019 ppm	1.2484 ppm	0.2699 ppm	0.7937 ppm	0.0189 ppm	-0.0058 ppm
Concentration per Run 1	6.3094 ppm	0.0017 ppm	1.2117 ppm	0.2709 ppm	0.7955 ppm	0.0181 ppm	-0.0075 ppm
Concentration per Run 2	6.5484 ppm	0.0021 ppm	1.2580 ppm	0.2696 ppm	0.7926 ppm	0.0192 ppm	-0.0057 ppm
Concentration per Run 3	6.5665 ppm	0.0019 ppm	1.2756 ppm	0.2693 ppm	0.7930 ppm	0.0193 ppm	-0.0042 ppm
Concentration RSD	2.2 %	10.4 %	2.6 %	0.3 %	0.2 %	3.3 %	28.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	16.0173 ppm	0.0077 ppm	0.4139 ppm	0.5812 ppm	0.0013 ppm	0.2757 ppm	0.7615 ppm
Concentration per Run 1	16.0528 ppm	0.0075 ppm	0.4029 ppm	0.5814 ppm	-0.0007 ppm	0.2757 ppm	0.7635 ppm
Concentration per Run 2	15.9890 ppm	0.0081 ppm	0.4192 ppm	0.5815 ppm	0.0021 ppm	0.2765 ppm	0.7597 ppm
Concentration per Run 3	16.0100 ppm	0.0075 ppm	0.4196 ppm	0.5806 ppm	0.0024 ppm	0.2750 ppm	0.7611 ppm
Concentration RSD	0.2 %	4.8 %	2.3 %	0.1 %	130.7 %	0.3 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	131.1671 %	127.0870 %	125.5542 %	107.6402 %	102.8093 %	104.7148 %
Concentration per Run 1	132.1535 %	127.3836 %	125.7289 %	109.4526 %	102.5972 %	104.9223 %
Concentration per Run 2	130.1395 %	126.6633 %	125.5652 %	106.5828 %	102.9214 %	104.3967 %
Concentration per Run 3	131.2084 %	127.2141 %	125.3686 %	106.8851 %	102.9092 %	104.8254 %
Concentration RSD	0.8 %	0.3 %	0.1 %	1.5 %	0.2 %	0.3 %

ICP DataTrace 6

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LabBook: WG1810702_08022023t6.imexp

Sample: I2339423-04d2 WG1802988
 Analysis started at: 8/2/2023 11:04:23 AM
 Rack: 1
 Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	80.8983 ppm	0.0319 ppm	0.0369 ppm	0.7027 ppm	0.0046 ppm	88.7058 ppm
Concentration per Run 1	0.0002 ppm	76.9220 ppm	0.0310 ppm	0.0370 ppm	0.6698 ppm	0.0045 ppm	84.4320 ppm
Concentration per Run 2	0.0002 ppm	82.6299 ppm	0.0317 ppm	0.0366 ppm	0.7168 ppm	0.0046 ppm	90.4797 ppm
Concentration per Run 3	0.0003 ppm	83.1431 ppm	0.0331 ppm	0.0371 ppm	0.7217 ppm	0.0047 ppm	91.2058 ppm
Concentration RSD	15.1 %	4.3 %	3.4 %	0.7 %	4.1 %	1.7 %	4.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0014 ppm	0.0394 ppm	0.1631 ppm	0.2036 ppm	218.8824 ppm	5.6800 ppm	22.6717 ppm
Concentration per Run 1	0.0015 ppm	0.0395 ppm	0.1625 ppm	0.2036 ppm	208.1619 ppm	5.3907 ppm	22.6509 ppm
Concentration per Run 2	0.0014 ppm	0.0391 ppm	0.1633 ppm	0.2036 ppm	223.5690 ppm	5.8032 ppm	22.6765 ppm
Concentration per Run 3	0.0013 ppm	0.0396 ppm	0.1636 ppm	0.2036 ppm	224.9162 ppm	5.8460 ppm	22.6875 ppm
Concentration RSD	6.1 %	0.7 %	0.4 %	0.0 %	4.3 %	4.4 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.3472 ppm	0.0039 ppm	1.1742 ppm	0.1274 ppm	2.1280 ppm	0.0119 ppm	-0.0018 ppm
Concentration per Run 1	2.2320 ppm	0.0037 ppm	1.1058 ppm	0.1270 ppm	2.1274 ppm	0.0105 ppm	-0.0011 ppm
Concentration per Run 2	2.4001 ppm	0.0040 ppm	1.1917 ppm	0.1279 ppm	2.1265 ppm	0.0106 ppm	-0.0026 ppm
Concentration per Run 3	2.4096 ppm	0.0039 ppm	1.2250 ppm	0.1274 ppm	2.1300 ppm	0.0146 ppm	-0.0016 ppm
Concentration RSD	4.3 %	4.5 %	5.2 %	0.3 %	0.1 %	19.8 %	43.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	16.7446 ppm	0.0141 ppm	0.7224 ppm	0.2743 ppm	0.0020 ppm	0.1434 ppm	0.9294 ppm
Concentration per Run 1	16.7321 ppm	0.0137 ppm	0.6877 ppm	0.2744 ppm	0.0022 ppm	0.1429 ppm	0.9294 ppm
Concentration per Run 2	16.7442 ppm	0.0140 ppm	0.7373 ppm	0.2742 ppm	0.0024 ppm	0.1433 ppm	0.9291 ppm
Concentration per Run 3	16.7574 ppm	0.0147 ppm	0.7423 ppm	0.2745 ppm	0.0014 ppm	0.1442 ppm	0.9297 ppm
Concentration RSD	0.1 %	3.8 %	4.2 %	0.1 %	25.0 %	0.5 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	118.0449 %	112.5935 %	111.5856 %	108.5023 %	103.2748 %	103.8417 %
Concentration per Run 1	122.9744 %	113.0599 %	111.5174 %	113.4974 %	103.2337 %	104.4135 %
Concentration per Run 2	114.9986 %	112.5737 %	111.5565 %	105.8285 %	103.2690 %	103.6942 %
Concentration per Run 3	116.1616 %	112.1468 %	111.6830 %	106.1811 %	103.3217 %	103.4175 %
Concentration RSD	3.6 %	0.4 %	0.1 %	4.0 %	0.0 %	0.5 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339430-01d2 WG1802988
 Analysis started at: 8/2/2023 11:08:43 AM
 Rack: 1
 Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.1338 ppm	100.6192 ppm	0.0256 ppm	0.1877 ppm	0.9113 ppm	0.0129 ppm	706.8164 ppm
Concentration per Run 1	0.1330 ppm	97.9128 ppm	0.0294 ppm	0.1879 ppm	0.8873 ppm	0.0127 ppm	692.2948 ppm
Concentration per Run 2	0.1346 ppm	102.0736 ppm	0.0238 ppm	0.1864 ppm	0.9228 ppm	0.0129 ppm	707.4708 ppm
Concentration per Run 3	0.1338 ppm	101.8711 ppm	0.0238 ppm	0.1888 ppm	0.9239 ppm	0.0131 ppm	720.6837 ppm
Concentration RSD	0.6 %	2.3 %	12.6 %	0.6 %	2.3 %	1.7 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0757 ppm	1.4201 ppm	1.2553 ppm	1.0261 ppm	250.7841 ppm	23.4307 ppm	56.1944 ppm
Concentration per Run 1	0.0755 ppm	1.4175 ppm	1.2586 ppm	1.0255 ppm	244.0505 ppm	22.7351 ppm	56.2353 ppm
Concentration per Run 2	0.0753 ppm	1.4113 ppm	1.2553 ppm	1.0254 ppm	253.9388 ppm	23.7981 ppm	56.1954 ppm
Concentration per Run 3	0.0763 ppm	1.4314 ppm	1.2520 ppm	1.0275 ppm	254.3629 ppm	23.7591 ppm	56.1524 ppm
Concentration RSD	0.7 %	0.7 %	0.3 %	0.1 %	2.3 %	2.6 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.2602 ppm	0.0338 ppm	12.8670 ppm	1.7939 ppm	0.1317 ppm	-0.0092 ppm	0.0094 ppm
Concentration per Run 1	2.2001 ppm	0.0336 ppm	12.5243 ppm	1.7894 ppm	0.1306 ppm	-0.0115 ppm	0.0093 ppm
Concentration per Run 2	2.2888 ppm	0.0337 ppm	13.0560 ppm	1.7833 ppm	0.1322 ppm	-0.0060 ppm	0.0072 ppm
Concentration per Run 3	2.2918 ppm	0.0342 ppm	13.0205 ppm	1.8089 ppm	0.1322 ppm	-0.0100 ppm	0.0117 ppm
Concentration RSD	2.3 %	1.0 %	2.3 %	0.7 %	0.7 %	31.5 %	23.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	18.0751 ppm	0.1338 ppm	0.9479 ppm	5.6291 ppm	-0.0004 ppm	0.4663 ppm	2.0329 ppm
Concentration per Run 1	18.0400 ppm	0.1330 ppm	0.9235 ppm	5.6309 ppm	-0.0009 ppm	0.4665 ppm	2.0304 ppm
Concentration per Run 2	17.9806 ppm	0.1336 ppm	0.9601 ppm	5.6283 ppm	0.0014 ppm	0.4660 ppm	2.0211 ppm
Concentration per Run 3	18.2048 ppm	0.1347 ppm	0.9602 ppm	5.6280 ppm	-0.0016 ppm	0.4664 ppm	2.0472 ppm
Concentration RSD	0.6 %	0.7 %	2.2 %	0.0 %	443.5 %	0.1 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	117.9687 %	110.5548 %	108.5660 %	109.3319 %	99.6088 %	103.6566 %
Concentration per Run 1	120.3036 %	110.7758 %	108.7755 %	111.8774 %	99.6799 %	103.7460 %
Concentration per Run 2	116.8026 %	110.0760 %	109.2369 %	108.3360 %	100.1718 %	103.2820 %
Concentration per Run 3	116.8000 %	110.8126 %	107.6857 %	107.7821 %	98.9747 %	103.9419 %
Concentration RSD	1.7 %	0.4 %	0.7 %	2.0 %	0.6 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339907-03d2 WG1802988
 Analysis started at: 8/2/2023 11:13:10 AM
 Rack: 1
 Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0022 ppm	68.9529 ppm	0.0702 ppm	0.0328 ppm	1.3795 ppm	0.0054 ppm	160.7426 ppm
Concentration per Run 1	0.0023 ppm	66.1666 ppm	0.0677 ppm	0.0329 ppm	1.3238 ppm	0.0053 ppm	154.2414 ppm
Concentration per Run 2	0.0017 ppm	70.0764 ppm	0.0722 ppm	0.0326 ppm	1.4030 ppm	0.0055 ppm	163.3832 ppm
Concentration per Run 3	0.0027 ppm	70.6157 ppm	0.0708 ppm	0.0328 ppm	1.4117 ppm	0.0054 ppm	164.6033 ppm
Concentration RSD	22.7 %	3.5 %	3.3 %	0.4 %	3.5 %	1.5 %	3.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0205 ppm	0.0489 ppm	0.1153 ppm	1.0159 ppm	198.3875 ppm	6.2043 ppm	62.1442 ppm
Concentration per Run 1	0.0206 ppm	0.0485 ppm	0.1152 ppm	1.0143 ppm	190.2796 ppm	5.9727 ppm	62.0017 ppm
Concentration per Run 2	0.0205 ppm	0.0492 ppm	0.1157 ppm	1.0164 ppm	201.6912 ppm	6.3418 ppm	62.1902 ppm
Concentration per Run 3	0.0205 ppm	0.0489 ppm	0.1151 ppm	1.0171 ppm	203.1918 ppm	6.2983 ppm	62.2407 ppm
Concentration RSD	0.3 %	0.7 %	0.3 %	0.1 %	3.6 %	3.3 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.5479 ppm	0.0055 ppm	0.9922 ppm	0.1827 ppm	2.7202 ppm	0.0153 ppm	0.0031 ppm
Concentration per Run 1	4.3667 ppm	0.0057 ppm	0.9441 ppm	0.1825 ppm	2.7186 ppm	0.0149 ppm	0.0002 ppm
Concentration per Run 2	4.6214 ppm	0.0054 ppm	1.0405 ppm	0.1829 ppm	2.7242 ppm	0.0143 ppm	0.0084 ppm
Concentration per Run 3	4.6557 ppm	0.0053 ppm	0.9922 ppm	0.1827 ppm	2.7179 ppm	0.0168 ppm	0.0008 ppm
Concentration RSD	3.5 %	4.1 %	4.9 %	0.1 %	0.1 %	8.6 %	146.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	14.1943 ppm	0.2422 ppm	0.2774 ppm	1.3426 ppm	0.0013 ppm	0.1687 ppm	11.3003 ppm
Concentration per Run 1	14.1812 ppm	0.2418 ppm	0.2664 ppm	1.3393 ppm	0.0025 ppm	0.1688 ppm	11.2910 ppm
Concentration per Run 2	14.2087 ppm	0.2424 ppm	0.2816 ppm	1.3430 ppm	0.0016 ppm	0.1687 ppm	11.3191 ppm
Concentration per Run 3	14.1930 ppm	0.2423 ppm	0.2843 ppm	1.3454 ppm	-0.0002 ppm	0.1687 ppm	11.2906 ppm
Concentration RSD	0.1 %	0.1 %	3.5 %	0.2 %	102.1 %	0.0 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	135.0786 %	131.0973 %	127.9927 %	107.8441 %	103.8081 %	105.0273 %
Concentration per Run 1	138.2242 %	131.3366 %	128.5776 %	111.1439 %	104.3057 %	105.3952 %
Concentration per Run 2	134.0492 %	130.5643 %	127.7330 %	106.7873 %	103.4673 %	104.4763 %
Concentration per Run 3	132.9623 %	131.3910 %	127.6675 %	105.6011 %	103.6512 %	105.2103 %
Concentration RSD	2.1 %	0.4 %	0.4 %	2.7 %	0.4 %	0.5 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339907-04d2 WG1802988
 Analysis started at: 8/2/2023 11:17:30 AM
 Rack: 1
 Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0010 ppm	55.1391 ppm	0.0816 ppm	0.0261 ppm	1.2050 ppm	0.0057 ppm	103.3494 ppm
Concentration per Run 1	0.0011 ppm	52.8895 ppm	0.0783 ppm	0.0253 ppm	1.1557 ppm	0.0054 ppm	99.2009 ppm
Concentration per Run 2	0.0012 ppm	56.0440 ppm	0.0835 ppm	0.0262 ppm	1.2252 ppm	0.0058 ppm	105.1146 ppm
Concentration per Run 3	0.0009 ppm	56.4837 ppm	0.0831 ppm	0.0267 ppm	1.2342 ppm	0.0058 ppm	105.7328 ppm
Concentration RSD	16.2 %	3.6 %	3.6 %	2.8 %	3.6 %	4.3 %	3.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0055 ppm	0.0466 ppm	0.0984 ppm	0.8705 ppm	117.0346 ppm	4.8125 ppm	33.9718 ppm
Concentration per Run 1	0.0055 ppm	0.0464 ppm	0.0988 ppm	0.8691 ppm	112.2987 ppm	4.6195 ppm	33.9828 ppm
Concentration per Run 2	0.0055 ppm	0.0468 ppm	0.0980 ppm	0.8732 ppm	118.9811 ppm	4.9069 ppm	33.9939 ppm
Concentration per Run 3	0.0054 ppm	0.0465 ppm	0.0984 ppm	0.8693 ppm	119.8240 ppm	4.9111 ppm	33.9388 ppm
Concentration RSD	1.3 %	0.5 %	0.4 %	0.3 %	3.5 %	3.5 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.7331 ppm	0.0080 ppm	1.3562 ppm	0.3247 ppm	11.1646 ppm	0.0072 ppm	0.0045 ppm
Concentration per Run 1	2.6207 ppm	0.0082 ppm	1.3092 ppm	0.3249 ppm	11.1547 ppm	0.0076 ppm	0.0058 ppm
Concentration per Run 2	2.7774 ppm	0.0078 ppm	1.3726 ppm	0.3251 ppm	11.1818 ppm	0.0052 ppm	0.0052 ppm
Concentration per Run 3	2.8010 ppm	0.0080 ppm	1.3868 ppm	0.3242 ppm	11.1575 ppm	0.0088 ppm	0.0025 ppm
Concentration RSD	3.6 %	2.8 %	3.0 %	0.1 %	0.1 %	26.0 %	38.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	12.9484 ppm	0.1112 ppm	0.3948 ppm	0.9751 ppm	-0.0001 ppm	0.1678 ppm	2.5551 ppm
Concentration per Run 1	12.9268 ppm	0.1110 ppm	0.3794 ppm	0.9738 ppm	-0.0005 ppm	0.1674 ppm	2.5539 ppm
Concentration per Run 2	12.9662 ppm	0.1121 ppm	0.4015 ppm	0.9760 ppm	-0.0011 ppm	0.1682 ppm	2.5589 ppm
Concentration per Run 3	12.9522 ppm	0.1104 ppm	0.4035 ppm	0.9754 ppm	0.0013 ppm	0.1676 ppm	2.5525 ppm
Concentration RSD	0.2 %	0.8 %	3.4 %	0.1 %	1,121.9 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	124.4785 %	121.1932 %	118.8570 %	108.1656 %	106.2793 %	106.1720 %
Concentration per Run 1	127.9399 %	120.7094 %	118.8013 %	111.9568 %	106.3069 %	105.8981 %
Concentration per Run 2	123.1284 %	121.5016 %	118.5108 %	106.6073 %	105.9725 %	106.3577 %
Concentration per Run 3	122.3673 %	121.3685 %	119.2588 %	105.9328 %	106.5584 %	106.2602 %
Concentration RSD	2.4 %	0.4 %	0.3 %	3.1 %	0.3 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339907-05d2 WG1802988
 Analysis started at: 8/2/2023 11:27:56 AM
 Rack: 1
 Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	59.4150 ppm	0.0989 ppm	0.0630 ppm	1.0999 ppm	0.0058 ppm	172.8625 ppm
Concentration per Run 1	0.0006 ppm	55.9100 ppm	0.0992 ppm	0.0624 ppm	1.0345 ppm	0.0056 ppm	162.8419 ppm
Concentration per Run 2	0.0002 ppm	60.6220 ppm	0.0984 ppm	0.0629 ppm	1.1225 ppm	0.0058 ppm	176.4163 ppm
Concentration per Run 3	0.0001 ppm	61.7130 ppm	0.0991 ppm	0.0638 ppm	1.1426 ppm	0.0060 ppm	179.3292 ppm
Concentration RSD	85.0 %	5.2 %	0.5 %	1.2 %	5.2 %	3.5 %	5.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0037 ppm	0.0653 ppm	0.0934 ppm	0.7211 ppm	182.8645 ppm	6.5989 ppm	76.5137 ppm
Concentration per Run 1	0.0037 ppm	0.0651 ppm	0.0929 ppm	0.7190 ppm	171.9224 ppm	6.2678 ppm	76.4546 ppm
Concentration per Run 2	0.0037 ppm	0.0653 ppm	0.0940 ppm	0.7239 ppm	186.7293 ppm	6.7421 ppm	76.6131 ppm
Concentration per Run 3	0.0037 ppm	0.0656 ppm	0.0931 ppm	0.7205 ppm	189.9417 ppm	6.7867 ppm	76.4735 ppm
Concentration RSD	0.7 %	0.4 %	0.6 %	0.3 %	5.3 %	4.4 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.4148 ppm	0.0139 ppm	1.9602 ppm	0.1507 ppm	1.0468 ppm	0.0127 ppm	0.0018 ppm
Concentration per Run 1	3.2153 ppm	0.0139 ppm	1.8438 ppm	0.1494 ppm	1.0421 ppm	0.0110 ppm	0.0047 ppm
Concentration per Run 2	3.4876 ppm	0.0139 ppm	2.0010 ppm	0.1517 ppm	1.0501 ppm	0.0126 ppm	-0.0012 ppm
Concentration per Run 3	3.5416 ppm	0.0138 ppm	2.0357 ppm	0.1510 ppm	1.0481 ppm	0.0146 ppm	0.0018 ppm
Concentration RSD	5.1 %	0.4 %	5.2 %	0.8 %	0.4 %	13.9 %	165.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	13.7200 ppm	0.0614 ppm	0.4857 ppm	0.8068 ppm	0.0026 ppm	0.2200 ppm	3.6337 ppm
Concentration per Run 1	13.6723 ppm	0.0609 ppm	0.4568 ppm	0.8047 ppm	0.0008 ppm	0.2192 ppm	3.6232 ppm
Concentration per Run 2	13.7355 ppm	0.0618 ppm	0.4959 ppm	0.8091 ppm	0.0034 ppm	0.2207 ppm	3.6384 ppm
Concentration per Run 3	13.7523 ppm	0.0614 ppm	0.5043 ppm	0.8067 ppm	0.0034 ppm	0.2200 ppm	3.6395 ppm
Concentration RSD	0.3 %	0.7 %	5.2 %	0.3 %	58.5 %	0.3 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	128.6030 %	122.9221 %	120.9834 %	109.6104 %	103.7642 %	104.3622 %
Concentration per Run 1	132.5493 %	122.6111 %	120.9283 %	114.8652 %	104.0378 %	104.4575 %
Concentration per Run 2	127.5558 %	122.8664 %	120.7995 %	108.1652 %	103.5941 %	104.2384 %
Concentration per Run 3	125.7040 %	123.2887 %	121.2224 %	105.8006 %	103.6606 %	104.3907 %
Concentration RSD	2.8 %	0.3 %	0.2 %	4.3 %	0.2 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339907-06d2 WG1802988
 Analysis started at: 8/2/2023 11:32:17 AM
 Rack: 1
 Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	44.8802 ppm	0.0509 ppm	0.0242 ppm	0.5454 ppm	0.0093 ppm	33.0747 ppm
Concentration per Run 1	-0.0003 ppm	43.0668 ppm	0.0526 ppm	0.0243 ppm	0.5230 ppm	0.0090 ppm	31.8076 ppm
Concentration per Run 2	0.0000 ppm	45.6778 ppm	0.0499 ppm	0.0239 ppm	0.5557 ppm	0.0093 ppm	33.6673 ppm
Concentration per Run 3	0.0000 ppm	45.8961 ppm	0.0502 ppm	0.0243 ppm	0.5574 ppm	0.0096 ppm	33.7491 ppm
Concentration RSD	133.7 %	3.5 %	2.9 %	0.9 %	3.6 %	3.1 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0221 ppm	0.0448 ppm	0.0611 ppm	1.9032 ppm	84.8958 ppm	3.4475 ppm	11.9914 ppm
Concentration per Run 1	0.0220 ppm	0.0447 ppm	0.0608 ppm	1.9014 ppm	81.4665 ppm	3.2954 ppm	11.9883 ppm
Concentration per Run 2	0.0220 ppm	0.0448 ppm	0.0614 ppm	1.9081 ppm	86.4256 ppm	3.5375 ppm	11.9938 ppm
Concentration per Run 3	0.0222 ppm	0.0450 ppm	0.0610 ppm	1.9001 ppm	86.7953 ppm	3.5096 ppm	11.9922 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %	0.2 %	3.5 %	3.8 %	0.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.6255 ppm	0.0097 ppm	1.3758 ppm	0.4088 ppm	0.4157 ppm	0.0054 ppm	0.0067 ppm
Concentration per Run 1	1.5604 ppm	0.0097 ppm	1.3276 ppm	0.4101 ppm	0.4161 ppm	0.0057 ppm	0.0076 ppm
Concentration per Run 2	1.6531 ppm	0.0097 ppm	1.3993 ppm	0.4081 ppm	0.4155 ppm	0.0069 ppm	0.0072 ppm
Concentration per Run 3	1.6629 ppm	0.0098 ppm	1.4007 ppm	0.4083 ppm	0.4155 ppm	0.0036 ppm	0.0052 ppm
Concentration RSD	3.5 %	0.8 %	3.0 %	0.3 %	0.1 %	30.5 %	19.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.7982 ppm	0.0803 ppm	0.6018 ppm	0.9369 ppm	0.0009 ppm	0.1539 ppm	5.0134 ppm
Concentration per Run 1	8.7905 ppm	0.0802 ppm	0.5778 ppm	0.9355 ppm	0.0016 ppm	0.1540 ppm	5.0119 ppm
Concentration per Run 2	8.7986 ppm	0.0801 ppm	0.6125 ppm	0.9376 ppm	0.0008 ppm	0.1540 ppm	5.0143 ppm
Concentration per Run 3	8.8056 ppm	0.0805 ppm	0.6152 ppm	0.9377 ppm	0.0003 ppm	0.1536 ppm	5.0139 ppm
Concentration RSD	0.1 %	0.3 %	3.5 %	0.1 %	75.8 %	0.1 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	124.9741 %	120.7999 %	118.7241 %	109.3689 %	109.4613 %	107.2109 %
Concentration per Run 1	129.3515 %	120.7098 %	118.8550 %	113.4596 %	109.5425 %	107.0331 %
Concentration per Run 2	123.3276 %	121.2857 %	118.5674 %	108.0551 %	109.4247 %	107.6364 %
Concentration per Run 3	122.2431 %	120.4043 %	118.7500 %	106.5920 %	109.4167 %	106.9632 %
Concentration RSD	3.1 %	0.4 %	0.1 %	3.3 %	0.1 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339907-07d2 WG1802988
 Analysis started at: 8/2/2023 11:36:41 AM
 Rack: 1
 Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	49.6365 ppm	0.0309 ppm	0.0366 ppm	0.8257 ppm	0.0054 ppm	118.9115 ppm
Concentration per Run 1	-0.0003 ppm	47.5326 ppm	0.0291 ppm	0.0366 ppm	0.7901 ppm	0.0052 ppm	113.9491 ppm
Concentration per Run 2	0.0000 ppm	50.5087 ppm	0.0313 ppm	0.0364 ppm	0.8397 ppm	0.0054 ppm	120.8799 ppm
Concentration per Run 3	0.0003 ppm	50.8681 ppm	0.0323 ppm	0.0368 ppm	0.8473 ppm	0.0056 ppm	121.9056 ppm
Concentration RSD	91,829.9 %	3.7 %	5.3 %	0.6 %	3.8 %	3.7 %	3.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0006 ppm	0.0911 ppm	0.0604 ppm	0.2660 ppm	52.6855 ppm	4.9203 ppm	39.0340 ppm
Concentration per Run 1	0.0005 ppm	0.0916 ppm	0.0600 ppm	0.2651 ppm	50.4414 ppm	4.7293 ppm	38.9770 ppm
Concentration per Run 2	0.0006 ppm	0.0911 ppm	0.0604 ppm	0.2660 ppm	53.5640 ppm	5.0415 ppm	39.0599 ppm
Concentration per Run 3	0.0005 ppm	0.0906 ppm	0.0609 ppm	0.2669 ppm	54.0511 ppm	4.9901 ppm	39.0652 ppm
Concentration RSD	11.1 %	0.5 %	0.8 %	0.3 %	3.7 %	3.4 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.4650 ppm	0.0101 ppm	2.1766 ppm	0.1500 ppm	3.5526 ppm	0.0024 ppm	-0.0015 ppm
Concentration per Run 1	1.4038 ppm	0.0104 ppm	2.0761 ppm	0.1509 ppm	3.5595 ppm	0.0024 ppm	-0.0017 ppm
Concentration per Run 2	1.4861 ppm	0.0101 ppm	2.2067 ppm	0.1500 ppm	3.5574 ppm	0.0011 ppm	0.0000 ppm
Concentration per Run 3	1.5052 ppm	0.0098 ppm	2.2470 ppm	0.1492 ppm	3.5408 ppm	0.0035 ppm	-0.0028 ppm
Concentration RSD	3.7 %	3.0 %	4.1 %	0.6 %	0.3 %	51.4 %	96.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.3538 ppm	0.0285 ppm	1.0516 ppm	0.6882 ppm	-0.0001 ppm	0.1795 ppm	0.5738 ppm
Concentration per Run 1	10.3587 ppm	0.0286 ppm	1.0067 ppm	0.6862 ppm	0.0006 ppm	0.1789 ppm	0.5753 ppm
Concentration per Run 2	10.3766 ppm	0.0280 ppm	1.0702 ppm	0.6894 ppm	-0.0016 ppm	0.1807 ppm	0.5752 ppm
Concentration per Run 3	10.3260 ppm	0.0287 ppm	1.0781 ppm	0.6891 ppm	0.0007 ppm	0.1790 ppm	0.5709 ppm
Concentration RSD	0.2 %	1.4 %	3.7 %	0.3 %	1,046.5 %	0.6 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	123.9358 %	119.0860 %	117.6513 %	108.1453 %	106.3731 %	105.4568 %
Concentration per Run 1	128.1252 %	119.4796 %	116.9495 %	111.9530 %	105.9459 %	105.8391 %
Concentration per Run 2	121.6846 %	119.0060 %	117.4147 %	106.1762 %	106.0618 %	105.3329 %
Concentration per Run 3	121.9975 %	118.7725 %	118.5898 %	106.3067 %	107.1115 %	105.1982 %
Concentration RSD	2.9 %	0.3 %	0.7 %	3.0 %	0.6 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339907-09d2 WG1802988
 Analysis started at: 8/2/2023 11:41:04 AM
 Rack: 1
 Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0008 ppm	54.7882 ppm	0.0241 ppm	0.0217 ppm	0.4106 ppm	0.0040 ppm	26.3492 ppm
Concentration per Run 1	-0.0008 ppm	52.4997 ppm	0.0259 ppm	0.0213 ppm	0.3931 ppm	0.0037 ppm	25.2225 ppm
Concentration per Run 2	-0.0007 ppm	55.6967 ppm	0.0226 ppm	0.0218 ppm	0.4168 ppm	0.0042 ppm	26.7910 ppm
Concentration per Run 3	-0.0009 ppm	56.1682 ppm	0.0239 ppm	0.0218 ppm	0.4218 ppm	0.0040 ppm	27.0342 ppm
Concentration RSD	14.6 %	3.6 %	6.9 %	1.3 %	3.7 %	5.6 %	3.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0007 ppm	0.0431 ppm	0.0809 ppm	0.0766 ppm	148.7137 ppm	4.5568 ppm	21.1496 ppm
Concentration per Run 1	0.0007 ppm	0.0429 ppm	0.0811 ppm	0.0764 ppm	142.5099 ppm	4.3503 ppm	21.1943 ppm
Concentration per Run 2	0.0006 ppm	0.0430 ppm	0.0806 ppm	0.0769 ppm	150.9405 ppm	4.6376 ppm	21.1295 ppm
Concentration per Run 3	0.0007 ppm	0.0434 ppm	0.0810 ppm	0.0765 ppm	152.6908 ppm	4.6825 ppm	21.1250 ppm
Concentration RSD	7.2 %	0.6 %	0.3 %	0.4 %	3.7 %	4.0 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	5.3254 ppm	0.0010 ppm	0.7958 ppm	0.1065 ppm	0.0505 ppm	0.0056 ppm	-0.0016 ppm
Concentration per Run 1	5.1056 ppm	0.0011 ppm	0.7507 ppm	0.1068 ppm	0.0514 ppm	0.0038 ppm	-0.0016 ppm
Concentration per Run 2	5.4051 ppm	0.0010 ppm	0.8175 ppm	0.1062 ppm	0.0502 ppm	0.0064 ppm	-0.0039 ppm
Concentration per Run 3	5.4655 ppm	0.0009 ppm	0.8192 ppm	0.1066 ppm	0.0499 ppm	0.0066 ppm	0.0006 ppm
Concentration RSD	3.6 %	7.6 %	4.9 %	0.3 %	1.6 %	27.7 %	140.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.9306 ppm	0.0020 ppm	0.1003 ppm	0.8708 ppm	0.0011 ppm	0.1437 ppm	0.3488 ppm
Concentration per Run 1	10.8890 ppm	0.0025 ppm	0.0961 ppm	0.8710 ppm	0.0019 ppm	0.1438 ppm	0.3478 ppm
Concentration per Run 2	10.9543 ppm	0.0017 ppm	0.1019 ppm	0.8711 ppm	-0.0002 ppm	0.1436 ppm	0.3493 ppm
Concentration per Run 3	10.9484 ppm	0.0020 ppm	0.1031 ppm	0.8703 ppm	0.0018 ppm	0.1436 ppm	0.3492 ppm
Concentration RSD	0.3 %	20.1 %	3.8 %	0.0 %	100.1 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	140.5204 %	138.2285 %	135.9255 %	108.4104 %	109.2914 %	107.5804 %
Concentration per Run 1	143.9534 %	137.8071 %	136.0454 %	112.1262 %	109.6362 %	107.2945 %
Concentration per Run 2	139.2403 %	138.4181 %	136.1010 %	107.0249 %	109.1470 %	107.6586 %
Concentration per Run 3	138.3675 %	138.4604 %	135.6300 %	106.0802 %	109.0910 %	107.7881 %
Concentration RSD	2.1 %	0.3 %	0.2 %	3.0 %	0.3 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCV
 Analysis started at: 8/2/2023 11:45:29 AM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5196 ppm	0.5231 ppm	0.4551 ppm	0.4900 ppm	0.5407 ppm	0.5001 ppm	0.5329 ppm
Concentration per Run 1	0.5195 ppm	0.5027 ppm	0.4553 ppm	0.4894 ppm	0.5072 ppm	0.4683 ppm	0.4882 ppm
Concentration per Run 2	0.5200 ppm	0.5390 ppm	0.4538 ppm	0.4909 ppm	0.5562 ppm	0.5146 ppm	0.5490 ppm
Concentration per Run 3	0.5194 ppm	0.5274 ppm	0.4564 ppm	0.4896 ppm	0.5588 ppm	0.5173 ppm	0.5614 ppm
Recovery Percentage 1	103.927 %	104.612 %	91.029 %	97.994 %	108.145 %	100.011 %	106.577 %
Concentration RSD	0.1 %	3.5 %	0.3 %	0.2 %	5.4 %	5.5 %	7.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5147 ppm	0.4987 ppm	0.4859 ppm	0.5103 ppm	0.5877 ppm	5.5739 ppm	0.5128 ppm
Concentration per Run 1	0.5136 ppm	0.4980 ppm	0.4861 ppm	0.5106 ppm	0.5477 ppm	5.2778 ppm	0.5097 ppm
Concentration per Run 2	0.5144 ppm	0.4976 ppm	0.4862 ppm	0.5111 ppm	0.6115 ppm	5.6370 ppm	0.5128 ppm
Concentration per Run 3	0.5161 ppm	0.5005 ppm	0.4853 ppm	0.5093 ppm	0.6039 ppm	5.8070 ppm	0.5160 ppm
Recovery Percentage 1	102.943 %	99.735 %	97.180 %	102.059 %	117.540 %	111.478 %	102.567 %
Concentration RSD	0.3 %	0.3 %	0.1 %	0.2 %	5.9 %	4.8 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5205 ppm	0.4767 ppm	10.5895 ppm	0.5214 ppm	0.4886 ppm	0.4855 ppm	0.4959 ppm
Concentration per Run 1	0.4878 ppm	0.4755 ppm	9.9689 ppm	0.5202 ppm	0.4893 ppm	0.4833 ppm	0.4903 ppm
Concentration per Run 2	0.5349 ppm	0.4763 ppm	10.8897 ppm	0.5216 ppm	0.4870 ppm	0.4864 ppm	0.4957 ppm
Concentration per Run 3	0.5387 ppm	0.4783 ppm	10.9098 ppm	0.5225 ppm	0.4895 ppm	0.4867 ppm	0.5016 ppm
Recovery Percentage 1	104.093 %	95.334 %	105.895 %	104.287 %	97.723 %	97.096 %	99.174 %
Concentration RSD	5.5 %	0.3 %	5.1 %	0.2 %	0.3 %	0.4 %	1.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1480 ppm	0.4655 ppm	0.5326 ppm	0.5118 ppm	0.4807 ppm	0.4859 ppm	0.4924 ppm
Concentration per Run 1	5.1423 ppm	0.4633 ppm	0.4998 ppm	0.5120 ppm	0.4808 ppm	0.4867 ppm	0.4918 ppm
Concentration per Run 2	5.1443 ppm	0.4663 ppm	0.5481 ppm	0.5111 ppm	0.4816 ppm	0.4859 ppm	0.4920 ppm
Concentration per Run 3	5.1574 ppm	0.4670 ppm	0.5498 ppm	0.5122 ppm	0.4796 ppm	0.4852 ppm	0.4933 ppm
Recovery Percentage 1	102.960 %	93.109 %	106.512 %	102.351 %	96.137 %	97.184 %	98.471 %
Concentration RSD	0.2 %	0.4 %	5.3 %	0.1 %	0.2 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.4820 %	103.3686 %	101.8881 %	105.5646 %	106.8665 %	103.7937 %
Concentration per Run 1	111.6345 %	103.1892 %	101.7306 %	110.9433 %	106.7944 %	103.5319 %
Concentration per Run 2	103.9016 %	103.7484 %	102.0117 %	103.0267 %	107.0670 %	104.2667 %
Concentration per Run 3	103.9100 %	103.1682 %	101.9221 %	102.7236 %	106.7380 %	103.5826 %
Recovery Percentage 1						
Concentration RSD	4.2 %	0.3 %	0.1 %	4.4 %	0.2 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCB
 Analysis started at: 8/2/2023 11:49:50 AM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	-0.0050 ppm	0.0012 ppm	0.0009 ppm	-0.0002 ppm	0.0000 ppm	-0.0039 ppm
Concentration per Run 1	-0.0001 ppm	-0.0020 ppm	0.0004 ppm	0.0011 ppm	-0.0003 ppm	-0.0001 ppm	-0.0052 ppm
Concentration per Run 2	0.0010 ppm	-0.0176 ppm	0.0031 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 3	0.0006 ppm	0.0045 ppm	0.0001 ppm	0.0010 ppm	-0.0003 ppm	0.0000 ppm	-0.0049 ppm
Recovery Percentage 1	7.505 %	-5.033 %	24.041 %	3.137 %	-2.142 %	-0.398 %	-3.862 %
Concentration RSD	106.7 %	226.1 %	139.5 %	28.4 %	57.9 %	269.3 %	53.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0008 ppm	0.0012 ppm	0.0240 ppm	-0.0011 ppm
Concentration per Run 1	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0009 ppm	0.0001 ppm	0.0013 ppm	0.0009 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0012 ppm	0.0028 ppm	0.0421 ppm	-0.0016 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0004 ppm	0.0008 ppm	0.0287 ppm	-0.0026 ppm
Recovery Percentage 1	2.840 %	0.536 %	2.596 %	8.463 %	2.494 %	0.962 %	-1.116 %
Concentration RSD	57.2 %	72.3 %	96.4 %	44.4 %	110.3 %	86.5 %	160.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0010 ppm	0.0000 ppm	0.0005 ppm	-0.0003 ppm	-0.0008 ppm	0.0004 ppm
Concentration per Run 1	0.0002 ppm	0.0010 ppm	-0.0102 ppm	0.0002 ppm	-0.0012 ppm	0.0016 ppm	-0.0006 ppm
Concentration per Run 2	0.0004 ppm	0.0010 ppm	-0.0006 ppm	0.0009 ppm	0.0008 ppm	-0.0012 ppm	-0.0011 ppm
Concentration per Run 3	-0.0003 ppm	0.0011 ppm	0.0106 ppm	0.0005 ppm	-0.0003 ppm	-0.0030 ppm	0.0030 ppm
Recovery Percentage 1	0.834 %	2.010 %	-0.002 %	2.175 %	-2.530 %	-1.669 %	4.276 %
Concentration RSD	459.7 %	4.5 %	27,536.4 %	56.0 %	410.2 %	277.5 %	522.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0035 ppm	0.0011 ppm	0.0003 ppm	0.0006 ppm	0.0010 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 1	0.0028 ppm	0.0011 ppm	0.0002 ppm	0.0009 ppm	0.0003 ppm	-0.0006 ppm	0.0003 ppm
Concentration per Run 2	0.0040 ppm	0.0010 ppm	0.0005 ppm	0.0007 ppm	0.0013 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.0038 ppm	0.0011 ppm	0.0003 ppm	0.0003 ppm	0.0014 ppm	-0.0006 ppm	0.0004 ppm
Recovery Percentage 1	0.706 %	2.137 %	3.454 %	6.178 %	5.060 %	-3.988 %	6.365 %
Concentration RSD	18.4 %	8.0 %	49.2 %	50.4 %	60.2 %	86.3 %	16.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.9408 %	104.7984 %	102.7437 %	102.7229 %	106.1190 %	103.0095 %
Concentration per Run 1	109.2264 %	104.1996 %	102.9289 %	105.3603 %	106.5178 %	102.5126 %
Concentration per Run 2	104.4127 %	105.1273 %	102.4182 %	101.7322 %	105.8094 %	103.1336 %
Concentration per Run 3	104.1833 %	105.0683 %	102.8840 %	101.0762 %	106.0299 %	103.3823 %
Recovery Percentage 1						
Concentration RSD	2.7 %	0.5 %	0.3 %	2.2 %	0.3 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCV
 Analysis started at: 8/2/2023 12:12:30 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5284 ppm	0.5232 ppm	0.4554 ppm	0.4957 ppm	0.5508 ppm	0.5114 ppm	0.5443 ppm
Concentration per Run 1	0.5278 ppm	0.4878 ppm	0.4555 ppm	0.4948 ppm	0.5186 ppm	0.4812 ppm	0.5024 ppm
Concentration per Run 2	0.5291 ppm	0.5232 ppm	0.4541 ppm	0.4955 ppm	0.5654 ppm	0.5242 ppm	0.5596 ppm
Concentration per Run 3	0.5283 ppm	0.5587 ppm	0.4566 ppm	0.4969 ppm	0.5683 ppm	0.5289 ppm	0.5709 ppm
Recovery Percentage 1	105.681 %	104.645 %	91.076 %	99.147 %	110.156 %	102.284 %	108.861 %
Concentration RSD	0.1 %	6.8 %	0.3 %	0.2 %	5.1 %	5.1 %	6.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5195 ppm	0.5037 ppm	0.4880 ppm	0.5151 ppm	0.5880 ppm	5.6854 ppm	0.5149 ppm
Concentration per Run 1	0.5201 ppm	0.5041 ppm	0.4881 ppm	0.5159 ppm	0.5561 ppm	5.4051 ppm	0.5146 ppm
Concentration per Run 2	0.5183 ppm	0.5023 ppm	0.4880 ppm	0.5158 ppm	0.6033 ppm	5.7723 ppm	0.5176 ppm
Concentration per Run 3	0.5200 ppm	0.5047 ppm	0.4879 ppm	0.5136 ppm	0.6045 ppm	5.8788 ppm	0.5125 ppm
Recovery Percentage 1	103.895 %	100.741 %	97.602 %	103.023 %	117.596 %	113.708 %	102.986 %
Concentration RSD	0.2 %	0.2 %	0.0 %	0.2 %	4.7 %	4.4 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5277 ppm	0.4825 ppm	10.8580 ppm	0.5253 ppm	0.4921 ppm	0.4899 ppm	0.4992 ppm
Concentration per Run 1	0.4958 ppm	0.4817 ppm	10.2423 ppm	0.5256 ppm	0.4920 ppm	0.4892 ppm	0.4993 ppm
Concentration per Run 2	0.5422 ppm	0.4812 ppm	11.1453 ppm	0.5238 ppm	0.4918 ppm	0.4884 ppm	0.4961 ppm
Concentration per Run 3	0.5452 ppm	0.4845 ppm	11.1863 ppm	0.5265 ppm	0.4926 ppm	0.4919 ppm	0.5022 ppm
Recovery Percentage 1	105.549 %	96.495 %	108.580 %	105.054 %	98.427 %	97.971 %	99.844 %
Concentration RSD	5.3 %	0.4 %	4.9 %	0.3 %	0.1 %	0.4 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1735 ppm	0.4684 ppm	0.5446 ppm	0.5211 ppm	0.4844 ppm	0.4914 ppm	0.4961 ppm
Concentration per Run 1	5.1734 ppm	0.4655 ppm	0.5126 ppm	0.5211 ppm	0.4841 ppm	0.4915 ppm	0.4966 ppm
Concentration per Run 2	5.1612 ppm	0.4692 ppm	0.5581 ppm	0.5223 ppm	0.4844 ppm	0.4920 ppm	0.4943 ppm
Concentration per Run 3	5.1861 ppm	0.4706 ppm	0.5632 ppm	0.5200 ppm	0.4846 ppm	0.4906 ppm	0.4972 ppm
Recovery Percentage 1	103.471 %	93.685 %	108.924 %	104.222 %	96.871 %	98.275 %	99.211 %
Concentration RSD	0.2 %	0.6 %	5.1 %	0.2 %	0.1 %	0.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.6693 %	103.2447 %	100.3761 %	103.3160 %	105.3319 %	102.3987 %
Concentration per Run 1	109.6079 %	103.4847 %	100.6545 %	108.1496 %	105.5348 %	102.7518 %
Concentration per Run 2	102.0334 %	103.4042 %	100.4094 %	100.9916 %	105.5826 %	102.3977 %
Concentration per Run 3	102.3666 %	102.8453 %	100.0644 %	100.8069 %	104.8783 %	102.0467 %
Recovery Percentage 1						
Concentration RSD	4.1 %	0.3 %	0.3 %	4.1 %	0.4 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCB
 Analysis started at: 8/2/2023 12:16:50 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0008 ppm	0.0001 ppm	0.0008 ppm	-0.0002 ppm	0.0001 ppm	0.0019 ppm
Concentration per Run 1	0.0008 ppm	0.0041 ppm	-0.0004 ppm	0.0005 ppm	-0.0002 ppm	0.0001 ppm	0.0030 ppm
Concentration per Run 2	0.0006 ppm	-0.0045 ppm	-0.0011 ppm	0.0018 ppm	-0.0002 ppm	0.0002 ppm	0.0082 ppm
Concentration per Run 3	0.0003 ppm	0.0028 ppm	0.0019 ppm	0.0003 ppm	-0.0002 ppm	0.0001 ppm	-0.0056 ppm
Recovery Percentage 1	7.844 %	0.794 %	2.676 %	2.821 %	-2.089 %	2.916 %	1.864 %
Concentration RSD	42.7 %	578.0 %	1,199.6 %	94.3 %	17.1 %	52.6 %	373.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0010 ppm	0.0048 ppm	-0.0033 ppm	-0.0024 ppm
Concentration per Run 1	0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0011 ppm	0.0045 ppm	-0.0178 ppm	-0.0002 ppm
Concentration per Run 2	0.0002 ppm	0.0005 ppm	0.0008 ppm	0.0007 ppm	0.0045 ppm	-0.0606 ppm	-0.0020 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0012 ppm	0.0054 ppm	0.0685 ppm	-0.0050 ppm
Recovery Percentage 1	4.174 %	1.127 %	3.737 %	10.266 %	9.641 %	-0.133 %	-2.417 %
Concentration RSD	35.5 %	107.7 %	137.0 %	24.4 %	10.6 %	1,981.1 %	100.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0007 ppm	0.0010 ppm	-0.0077 ppm	0.0006 ppm	-0.0006 ppm	0.0006 ppm	-0.0017 ppm
Concentration per Run 1	0.0000 ppm	0.0010 ppm	-0.0163 ppm	0.0007 ppm	-0.0004 ppm	0.0008 ppm	-0.0021 ppm
Concentration per Run 2	0.0013 ppm	0.0009 ppm	-0.0076 ppm	0.0005 ppm	-0.0017 ppm	0.0015 ppm	0.0015 ppm
Concentration per Run 3	0.0007 ppm	0.0010 ppm	0.0008 ppm	0.0005 ppm	0.0003 ppm	-0.0005 ppm	-0.0046 ppm
Recovery Percentage 1	6.706 %	1.988 %	-0.384 %	2.219 %	-6.361 %	1.148 %	-17.366 %
Concentration RSD	93.8 %	8.4 %	111.3 %	22.6 %	161.2 %	179.4 %	175.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0022 ppm	0.0012 ppm	0.0004 ppm	0.0007 ppm	0.0003 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 1	0.0034 ppm	0.0016 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 2	0.0017 ppm	0.0011 ppm	0.0003 ppm	0.0012 ppm	0.0006 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 3	0.0015 ppm	0.0009 ppm	0.0004 ppm	0.0009 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm
Recovery Percentage 1	0.446 %	2.438 %	4.497 %	7.013 %	1.400 %	2.849 %	5.961 %
Concentration RSD	46.4 %	30.5 %	32.1 %	86.2 %	109.7 %	62.6 %	37.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.5829 %	105.4428 %	103.2166 %	101.9425 %	106.3211 %	102.8095 %
Concentration per Run 1	107.9610 %	104.9426 %	103.3071 %	103.8699 %	106.5784 %	102.3317 %
Concentration per Run 2	104.5355 %	106.1882 %	103.4378 %	101.2445 %	106.6744 %	103.6383 %
Concentration per Run 3	104.2522 %	105.1976 %	102.9051 %	100.7132 %	105.7104 %	102.4586 %
Recovery Percentage 1						
Concentration RSD	2.0 %	0.6 %	0.3 %	1.7 %	0.5 %	0.7 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: Blank DMB Trace6
 Analysis started at: 8/2/2023 1:02:22 PM
 Rack: 0
 Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.3 %	2.3 %	-0.4 %	0.0 %	0.1 %	0.5 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-1.3 %	0.1 %	-0.1 %	0.1 %	-1.0 %	0.3 %	-0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-1.5 %	0.1 %	-0.1 %	0.0 %	-0.2 %	0.1 %	-0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.0 %	0.3 %	-0.5 %	-0.3 %	-0.1 %	-0.1 %	-0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.0 %	0.0 %	0.0 %	0.1 %	0.0 %	0.0 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICAL
 Analysis started at: 8/2/2023 1:06:52 PM
 Rack: 0
 Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9993 ppm	22.8669 ppm	1.0002 ppm	0.9971 ppm	0.9156 ppm	0.9155 ppm	9.1650 ppm
Concentration per Run 2	0.9997 ppm	25.9606 ppm	0.9991 ppm	0.9995 ppm	1.0395 ppm	1.0403 ppm	10.4197 ppm
Concentration per Run 3	1.0010 ppm	26.1725 ppm	1.0007 ppm	1.0033 ppm	1.0450 ppm	1.0442 ppm	10.4153 ppm
Concentration RSD	0.1 %	7.4 %	0.1 %	0.3 %	7.3 %	7.3 %	7.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9992 ppm	0.9985 ppm	0.9989 ppm	0.9988 ppm	22.8857 ppm	32.1424 ppm	9.9838 ppm
Concentration per Run 2	0.9991 ppm	0.9992 ppm	0.9999 ppm	1.0002 ppm	25.9776 ppm	36.2953 ppm	10.0042 ppm
Concentration per Run 3	1.0017 ppm	1.0024 ppm	1.0012 ppm	1.0010 ppm	26.1367 ppm	36.5623 ppm	10.0121 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	0.1 %	7.3 %	7.1 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9135 ppm	0.9973 ppm	22.9419 ppm	0.9995 ppm	0.9993 ppm	0.9982 ppm	1.0017 ppm
Concentration per Run 2	1.0420 ppm	0.9994 ppm	25.9573 ppm	0.9982 ppm	0.9983 ppm	0.9973 ppm	0.9985 ppm
Concentration per Run 3	1.0445 ppm	1.0033 ppm	26.1008 ppm	1.0023 ppm	1.0024 ppm	1.0045 ppm	0.9998 ppm
Concentration RSD	7.5 %	0.3 %	7.1 %	0.2 %	0.2 %	0.4 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9846 ppm	0.9968 ppm	0.9159 ppm	0.9996 ppm	0.9974 ppm	0.9997 ppm	0.9983 ppm
Concentration per Run 2	9.9906 ppm	1.0000 ppm	1.0390 ppm	0.9992 ppm	1.0004 ppm	1.0001 ppm	1.0003 ppm
Concentration per Run 3	10.0248 ppm	1.0032 ppm	1.0451 ppm	1.0012 ppm	1.0021 ppm	1.0003 ppm	1.0014 ppm
Concentration RSD	0.2 %	0.3 %	7.3 %	0.1 %	0.2 %	0.0 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.2231 %	98.0718 %	96.2538 %	100.7553 %	96.6300 %	99.4245 %
Concentration per Run 1	107.7753 %	98.2280 %	96.5238 %	108.3568 %	96.7446 %	99.7019 %
Concentration per Run 2	96.8535 %	98.5866 %	95.9443 %	97.3746 %	96.4657 %	99.8865 %
Concentration per Run 3	96.0404 %	97.4008 %	96.2933 %	96.5346 %	96.6797 %	98.6850 %
Concentration RSD	6.5 %	0.6 %	0.3 %	6.5 %	0.2 %	0.7 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICV
 Analysis started at: 8/2/2023 1:11:06 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5055 ppm	0.5209 ppm	0.4970 ppm	0.4951 ppm	0.5093 ppm	0.5091 ppm	0.5158 ppm
Concentration per Run 1	0.5061 ppm	0.5142 ppm	0.4958 ppm	0.4935 ppm	0.4842 ppm	0.4845 ppm	0.4900 ppm
Concentration per Run 2	0.5054 ppm	0.5167 ppm	0.4962 ppm	0.4949 ppm	0.5211 ppm	0.5198 ppm	0.5200 ppm
Concentration per Run 3	0.5051 ppm	0.5318 ppm	0.4991 ppm	0.4968 ppm	0.5227 ppm	0.5230 ppm	0.5372 ppm
Recovery Percentage 1	101.106 %	104.174 %	99.410 %	99.014 %	101.863 %	101.821 %	103.151 %
Concentration RSD	0.1 %	1.8 %	0.4 %	0.3 %	4.3 %	4.2 %	4.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4959 ppm	0.5037 ppm	0.5084 ppm	0.5105 ppm	0.5375 ppm	5.3150 ppm	0.5122 ppm
Concentration per Run 1	0.4955 ppm	0.5031 ppm	0.5087 ppm	0.5102 ppm	0.5109 ppm	5.0865 ppm	0.5130 ppm
Concentration per Run 2	0.4956 ppm	0.5030 ppm	0.5089 ppm	0.5104 ppm	0.5512 ppm	5.4600 ppm	0.5086 ppm
Concentration per Run 3	0.4966 ppm	0.5052 ppm	0.5076 ppm	0.5111 ppm	0.5503 ppm	5.3985 ppm	0.5151 ppm
Recovery Percentage 1	99.179 %	100.749 %	101.681 %	102.110 %	107.492 %	106.300 %	102.445 %
Concentration RSD	0.1 %	0.2 %	0.1 %	0.1 %	4.3 %	3.8 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5188 ppm	0.4923 ppm	10.3892 ppm	0.5071 ppm	0.5035 ppm	0.4964 ppm	0.5035 ppm
Concentration per Run 1	0.4942 ppm	0.4915 ppm	9.8984 ppm	0.5052 ppm	0.5032 ppm	0.4933 ppm	0.5021 ppm
Concentration per Run 2	0.5298 ppm	0.4918 ppm	10.6154 ppm	0.5074 ppm	0.5029 ppm	0.4978 ppm	0.5042 ppm
Concentration per Run 3	0.5323 ppm	0.4936 ppm	10.6536 ppm	0.5087 ppm	0.5043 ppm	0.4981 ppm	0.5042 ppm
Recovery Percentage 1	103.759 %	98.459 %	103.892 %	101.428 %	100.693 %	99.288 %	100.693 %
Concentration RSD	4.1 %	0.2 %	4.1 %	0.3 %	0.2 %	0.5 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2299 ppm	0.4965 ppm	0.5002 ppm	0.4958 ppm	0.5093 ppm	0.4979 ppm	0.4977 ppm
Concentration per Run 1	5.2282 ppm	0.4959 ppm	0.4776 ppm	0.4964 ppm	0.5067 ppm	0.4982 ppm	0.4972 ppm
Concentration per Run 2	5.2223 ppm	0.4970 ppm	0.5115 ppm	0.4948 ppm	0.5090 ppm	0.4977 ppm	0.4969 ppm
Concentration per Run 3	5.2391 ppm	0.4966 ppm	0.5114 ppm	0.4963 ppm	0.5121 ppm	0.4977 ppm	0.4990 ppm
Recovery Percentage 1	104.597 %	99.299 %	100.031 %	99.165 %	101.854 %	99.572 %	99.537 %
Concentration RSD	0.2 %	0.1 %	3.9 %	0.2 %	0.5 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.8435 %	100.2383 %	99.2304 %	99.6549 %	100.0645 %	101.2397 %
Concentration per Run 1	103.6191 %	99.9416 %	99.0295 %	103.4791 %	100.2662 %	100.8517 %
Concentration per Run 2	97.7560 %	100.5021 %	99.5323 %	97.4704 %	100.2115 %	101.5475 %
Concentration per Run 3	98.1555 %	100.2712 %	99.1295 %	98.0151 %	99.7157 %	101.3200 %
Recovery Percentage 1						
Concentration RSD	3.3 %	0.3 %	0.3 %	3.3 %	0.3 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICB
 Analysis started at: 8/2/2023 1:15:26 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0037 ppm	0.0024 ppm	0.0021 ppm	0.0004 ppm	0.0002 ppm	0.0049 ppm
Concentration per Run 1	0.0007 ppm	-0.0013 ppm	0.0007 ppm	0.0021 ppm	0.0001 ppm	0.0003 ppm	0.0075 ppm
Concentration per Run 2	0.0005 ppm	-0.0102 ppm	0.0048 ppm	0.0021 ppm	0.0006 ppm	0.0003 ppm	0.0041 ppm
Concentration per Run 3	0.0004 ppm	0.0225 ppm	0.0016 ppm	0.0021 ppm	0.0006 ppm	0.0001 ppm	0.0031 ppm
Recovery Percentage 1	7.399 %	3.670 %	47.145 %	6.997 %	4.137 %	4.284 %	4.904 %
Concentration RSD	29.3 %	461.2 %	92.3 %	1.8 %	74.4 %	39.4 %	46.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0004 ppm	0.0005 ppm	0.0003 ppm	0.0002 ppm	0.0084 ppm	0.0049 ppm	0.0049 ppm
Concentration per Run 1	0.0005 ppm	0.0005 ppm	0.0002 ppm	0.0006 ppm	0.0096 ppm	0.0448 ppm	0.0056 ppm
Concentration per Run 2	0.0004 ppm	0.0005 ppm	0.0008 ppm	-0.0001 ppm	0.0111 ppm	-0.0892 ppm	0.0067 ppm
Concentration per Run 3	0.0003 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0044 ppm	0.0590 ppm	0.0024 ppm
Recovery Percentage 1	9.868 %	2.552 %	3.428 %	1.652 %	16.784 %	0.195 %	4.899 %
Concentration RSD	20.7 %	8.3 %	107.3 %	208.8 %	41.8 %	1,680.0 %	45.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0010 ppm	0.0011 ppm	-0.0042 ppm	0.0008 ppm	0.0016 ppm	0.0009 ppm	0.0042 ppm
Concentration per Run 1	0.0006 ppm	0.0016 ppm	-0.0060 ppm	0.0005 ppm	0.0023 ppm	0.0024 ppm	0.0055 ppm
Concentration per Run 2	0.0018 ppm	0.0010 ppm	0.0201 ppm	0.0006 ppm	0.0012 ppm	0.0007 ppm	0.0028 ppm
Concentration per Run 3	0.0006 ppm	0.0007 ppm	-0.0266 ppm	0.0012 ppm	0.0014 ppm	-0.0005 ppm	0.0043 ppm
Recovery Percentage 1	10.173 %	2.217 %	-0.209 %	3.011 %	16.497 %	1.705 %	41.834 %
Concentration RSD	66.5 %	40.4 %	559.3 %	49.7 %	35.0 %	170.3 %	32.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0036 ppm	0.0023 ppm	0.0004 ppm	0.0008 ppm	0.0010 ppm	0.0002 ppm	0.0008 ppm
Concentration per Run 1	0.0045 ppm	0.0025 ppm	0.0005 ppm	0.0009 ppm	0.0020 ppm	-0.0002 ppm	0.0009 ppm
Concentration per Run 2	0.0029 ppm	0.0026 ppm	0.0004 ppm	0.0010 ppm	0.0008 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 3	0.0034 ppm	0.0017 ppm	0.0004 ppm	0.0006 ppm	0.0004 ppm	0.0007 ppm	0.0006 ppm
Recovery Percentage 1	0.726 %	4.515 %	4.166 %	8.400 %	5.181 %	1.511 %	15.267 %
Concentration RSD	22.7 %	21.5 %	12.1 %	26.2 %	81.2 %	298.1 %	15.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.0223 %	101.6146 %	101.1755 %	97.9845 %	100.4244 %	100.5295 %
Concentration per Run 1	104.2388 %	101.6246 %	101.3415 %	101.2023 %	100.6962 %	100.5059 %
Concentration per Run 2	98.1696 %	101.7233 %	101.2355 %	96.8949 %	100.4055 %	100.5800 %
Concentration per Run 3	97.6584 %	101.4960 %	100.9496 %	95.8562 %	100.1716 %	100.5025 %
Recovery Percentage 1						
Concentration RSD	3.7 %	0.1 %	0.2 %	2.9 %	0.3 %	0.0 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICV
 Analysis started at: 8/2/2023 1:20:11 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5033 ppm	0.5127 ppm	0.5008 ppm	0.4927 ppm	0.5029 ppm	0.5070 ppm	0.5176 ppm
Concentration per Run 1	0.5049 ppm	0.4732 ppm	0.4971 ppm	0.4899 ppm	0.4819 ppm	0.4853 ppm	0.4823 ppm
Concentration per Run 2	0.5025 ppm	0.5232 ppm	0.5033 ppm	0.4957 ppm	0.5120 ppm	0.5179 ppm	0.5376 ppm
Concentration per Run 3	0.5026 ppm	0.5418 ppm	0.5021 ppm	0.4926 ppm	0.5147 ppm	0.5176 ppm	0.5327 ppm
Recovery Percentage 1	100.667 %	102.549 %	100.162 %	98.548 %	100.577 %	101.393 %	103.512 %
Concentration RSD	0.3 %	6.9 %	0.6 %	0.6 %	3.6 %	3.7 %	5.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4916 ppm	0.4986 ppm	0.5082 ppm	0.5073 ppm	0.5182 ppm	5.3190 ppm	0.5077 ppm
Concentration per Run 1	0.4908 ppm	0.4974 ppm	0.5092 ppm	0.5085 ppm	0.4953 ppm	5.1664 ppm	0.5042 ppm
Concentration per Run 2	0.4935 ppm	0.5004 ppm	0.5071 ppm	0.5069 ppm	0.5286 ppm	5.3939 ppm	0.5074 ppm
Concentration per Run 3	0.4907 ppm	0.4979 ppm	0.5082 ppm	0.5064 ppm	0.5307 ppm	5.3968 ppm	0.5115 ppm
Recovery Percentage 1	98.329 %	99.716 %	101.631 %	101.451 %	103.642 %	106.380 %	101.534 %
Concentration RSD	0.3 %	0.3 %	0.2 %	0.2 %	3.8 %	2.5 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5158 ppm	0.4843 ppm	10.2550 ppm	0.5003 ppm	0.5005 ppm	0.4911 ppm	0.5072 ppm
Concentration per Run 1	0.4960 ppm	0.4816 ppm	9.8442 ppm	0.4993 ppm	0.4984 ppm	0.4871 ppm	0.5041 ppm
Concentration per Run 2	0.5249 ppm	0.4867 ppm	10.4688 ppm	0.5022 ppm	0.5023 ppm	0.4929 ppm	0.5089 ppm
Concentration per Run 3	0.5266 ppm	0.4847 ppm	10.4519 ppm	0.4994 ppm	0.5008 ppm	0.4932 ppm	0.5085 ppm
Recovery Percentage 1	103.162 %	96.860 %	102.550 %	100.064 %	100.104 %	98.212 %	101.432 %
Concentration RSD	3.3 %	0.5 %	3.5 %	0.3 %	0.4 %	0.7 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1755 ppm	0.4949 ppm	0.5003 ppm	0.4909 ppm	0.5079 ppm	0.4964 ppm	0.4963 ppm
Concentration per Run 1	5.1602 ppm	0.4927 ppm	0.4794 ppm	0.4917 ppm	0.5065 ppm	0.4966 ppm	0.4951 ppm
Concentration per Run 2	5.1937 ppm	0.4963 ppm	0.5102 ppm	0.4905 ppm	0.5112 ppm	0.4966 ppm	0.4987 ppm
Concentration per Run 3	5.1725 ppm	0.4957 ppm	0.5113 ppm	0.4906 ppm	0.5061 ppm	0.4960 ppm	0.4953 ppm
Recovery Percentage 1	103.510 %	98.980 %	100.064 %	98.187 %	101.587 %	99.283 %	99.268 %
Concentration RSD	0.3 %	0.4 %	3.6 %	0.1 %	0.6 %	0.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.5090 %	101.2193 %	100.6271 %	100.8284 %	101.7167 %	102.2080 %
Concentration per Run 1	104.7224 %	101.3799 %	100.8807 %	104.8443 %	102.0319 %	102.4293 %
Concentration per Run 2	98.0889 %	100.5056 %	100.3798 %	98.4231 %	101.2222 %	101.5389 %
Concentration per Run 3	98.7157 %	101.7725 %	100.6207 %	99.2178 %	101.8960 %	102.6557 %
Recovery Percentage 1						
Concentration RSD	3.6 %	0.6 %	0.2 %	3.5 %	0.4 %	0.6 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICB
 Analysis started at: 8/2/2023 1:24:31 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0008 ppm	-0.0025 ppm	0.0032 ppm	0.0014 ppm	0.0004 ppm	0.0000 ppm	0.0058 ppm
Concentration per Run 1	0.0004 ppm	0.0046 ppm	0.0044 ppm	0.0016 ppm	0.0001 ppm	0.0000 ppm	0.0225 ppm
Concentration per Run 2	0.0012 ppm	-0.0142 ppm	0.0029 ppm	0.0013 ppm	0.0008 ppm	-0.0001 ppm	0.0073 ppm
Concentration per Run 3	0.0009 ppm	0.0020 ppm	0.0024 ppm	0.0013 ppm	0.0004 ppm	0.0002 ppm	-0.0125 ppm
Recovery Percentage 1	12.115 %	-2.538 %	64.831 %	4.762 %	4.345 %	0.728 %	5.758 %
Concentration RSD	47.2 %	401.4 %	32.5 %	12.6 %	76.8 %	331.9 %	304.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0003 ppm	0.0004 ppm	0.0003 ppm	0.0054 ppm	-0.0195 ppm	0.0020 ppm
Concentration per Run 1	0.0003 ppm	0.0004 ppm	-0.0001 ppm	0.0006 ppm	0.0032 ppm	-0.0280 ppm	0.0044 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	0.0013 ppm	-0.0003 ppm	0.0052 ppm	-0.0365 ppm	0.0014 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0079 ppm	0.0058 ppm	0.0002 ppm
Recovery Percentage 1	6.435 %	1.383 %	3.640 %	2.596 %	10.870 %	-0.782 %	1.977 %
Concentration RSD	15.7 %	55.0 %	215.5 %	193.1 %	43.2 %	114.4 %	108.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0009 ppm	0.0010 ppm	-0.0009 ppm	0.0007 ppm	-0.0003 ppm	0.0009 ppm	0.0031 ppm
Concentration per Run 1	0.0010 ppm	0.0014 ppm	-0.0092 ppm	0.0010 ppm	-0.0006 ppm	0.0007 ppm	0.0021 ppm
Concentration per Run 2	0.0006 ppm	0.0011 ppm	-0.0017 ppm	0.0007 ppm	0.0005 ppm	-0.0004 ppm	0.0019 ppm
Concentration per Run 3	0.0011 ppm	0.0006 ppm	0.0083 ppm	0.0004 ppm	-0.0007 ppm	0.0023 ppm	0.0051 ppm
Recovery Percentage 1	8.900 %	2.095 %	-0.044 %	2.662 %	-2.698 %	1.749 %	30.633 %
Concentration RSD	26.6 %	37.1 %	1,005.8 %	42.5 %	240.8 %	157.0 %	59.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0041 ppm	0.0027 ppm	0.0000 ppm	0.0006 ppm	0.0019 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 1	0.0049 ppm	0.0026 ppm	-0.0002 ppm	0.0004 ppm	0.0028 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 2	0.0054 ppm	0.0030 ppm	0.0002 ppm	0.0009 ppm	0.0014 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 3	0.0021 ppm	0.0026 ppm	0.0000 ppm	0.0006 ppm	0.0014 ppm	-0.0003 ppm	0.0005 ppm
Recovery Percentage 1	0.829 %	5.428 %	0.279 %	6.069 %	9.414 %	-0.830 %	12.372 %
Concentration RSD	42.3 %	8.4 %	726.8 %	40.0 %	41.0 %	286.3 %	16.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.7911 %	101.4938 %	101.4835 %	99.8921 %	100.5716 %	100.7000 %
Concentration per Run 1	104.6332 %	101.0054 %	101.7500 %	102.3888 %	100.6903 %	100.1346 %
Concentration per Run 2	99.8873 %	102.0342 %	101.5789 %	97.9877 %	100.7250 %	101.2663 %
Concentration per Run 3	100.8527 %	101.4419 %	101.1216 %	99.2999 %	100.2996 %	100.6991 %
Recovery Percentage 1						
Concentration RSD	2.5 %	0.5 %	0.3 %	2.3 %	0.2 %	0.6 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1802973-1 WG1802973
 Analysis started at: 8/2/2023 1:29:06 PM
 Rack: 1
 Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0129 ppm	0.0036 ppm	0.0008 ppm	0.0001 ppm	0.0002 ppm	0.0130 ppm
Concentration per Run 1	0.0002 ppm	-0.0097 ppm	0.0029 ppm	0.0006 ppm	0.0001 ppm	0.0003 ppm	0.0197 ppm
Concentration per Run 2	0.0001 ppm	-0.0110 ppm	0.0027 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0130 ppm
Concentration per Run 3	-0.0001 ppm	-0.0179 ppm	0.0053 ppm	0.0010 ppm	0.0002 ppm	0.0001 ppm	0.0062 ppm
Concentration RSD	470.5 %	34.6 %	39.4 %	26.8 %	41.1 %	66.1 %	52.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0008 ppm	-0.0002 ppm	0.0064 ppm	0.0104 ppm	0.0020 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0011 ppm	-0.0005 ppm	0.0077 ppm	0.0072 ppm	0.0035 ppm
Concentration per Run 2	0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0058 ppm	0.0617 ppm	0.0025 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	0.0009 ppm	-0.0003 ppm	0.0056 ppm	-0.0378 ppm	-0.0001 ppm
Concentration RSD	36.0 %	39.4 %	45.4 %	161.9 %	18.4 %	480.1 %	96.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0008 ppm	0.0002 ppm	0.1196 ppm	0.0010 ppm	0.0002 ppm	0.0005 ppm	0.0016 ppm
Concentration per Run 1	0.0006 ppm	0.0002 ppm	0.1062 ppm	0.0014 ppm	0.0011 ppm	0.0025 ppm	0.0024 ppm
Concentration per Run 2	0.0006 ppm	0.0002 ppm	0.1347 ppm	0.0007 ppm	-0.0004 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 3	0.0011 ppm	0.0001 ppm	0.1178 ppm	0.0008 ppm	0.0000 ppm	-0.0009 ppm	0.0019 ppm
Concentration RSD	37.7 %	43.3 %	12.0 %	37.2 %	342.9 %	352.4 %	57.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0025 ppm	0.0024 ppm	0.0001 ppm	0.0001 ppm	0.0023 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 1	-0.0018 ppm	0.0030 ppm	0.0003 ppm	-0.0002 ppm	0.0029 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 2	-0.0022 ppm	0.0017 ppm	0.0001 ppm	0.0006 ppm	0.0024 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 3	-0.0036 ppm	0.0025 ppm	-0.0001 ppm	0.0000 ppm	0.0015 ppm	-0.0002 ppm	0.0005 ppm
Concentration RSD	38.9 %	27.9 %	163.5 %	329.9 %	30.9 %	63.2 %	9.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.4739 %	103.2636 %	102.6090 %	100.2669 %	102.7900 %	102.4940 %
Concentration per Run 1	105.0276 %	102.8026 %	102.7246 %	102.0400 %	102.5633 %	101.8754 %
Concentration per Run 2	100.6120 %	103.3568 %	102.6857 %	98.9893 %	103.0372 %	102.6534 %
Concentration per Run 3	101.7822 %	103.6313 %	102.4168 %	99.7715 %	102.7694 %	102.9532 %
Concentration RSD	2.2 %	0.4 %	0.2 %	1.6 %	0.2 %	0.5 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1802973-2 WG1802973
 Analysis started at: 8/2/2023 1:33:38 PM
 Rack: 1
 Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5566 ppm	54.3590 ppm	1.5219 ppm	0.8169 ppm	2.3269 ppm	0.6327 ppm	36.3009 ppm
Concentration per Run 1	0.5556 ppm	52.3534 ppm	1.5207 ppm	0.8164 ppm	2.2417 ppm	0.6101 ppm	35.0079 ppm
Concentration per Run 2	0.5574 ppm	55.2044 ppm	1.5253 ppm	0.8178 ppm	2.3631 ppm	0.6427 ppm	36.8783 ppm
Concentration per Run 3	0.5567 ppm	55.5193 ppm	1.5197 ppm	0.8166 ppm	2.3760 ppm	0.6454 ppm	37.0165 ppm
Concentration RSD	0.2 %	3.2 %	0.2 %	0.1 %	3.2 %	3.1 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.8200 ppm	0.7623 ppm	1.5992 ppm	1.1129 ppm	114.5074 ppm	14.9693 ppm	17.1736 ppm
Concentration per Run 1	1.8180 ppm	0.7612 ppm	1.5971 ppm	1.1082 ppm	110.2614 ppm	14.4030 ppm	17.1277 ppm
Concentration per Run 2	1.8241 ppm	0.7642 ppm	1.6036 ppm	1.1154 ppm	116.3469 ppm	15.2156 ppm	17.2296 ppm
Concentration per Run 3	1.8179 ppm	0.7614 ppm	1.5969 ppm	1.1151 ppm	116.9140 ppm	15.2891 ppm	17.1636 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	0.4 %	3.2 %	3.3 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.5479 ppm	1.4051 ppm	13.5535 ppm	1.3163 ppm	2.0581 ppm	0.9742 ppm	1.9009 ppm
Concentration per Run 1	3.4182 ppm	1.3973 ppm	13.0481 ppm	1.3146 ppm	2.0577 ppm	0.9720 ppm	1.8956 ppm
Concentration per Run 2	3.6068 ppm	1.4102 ppm	13.7762 ppm	1.3190 ppm	2.0610 ppm	0.9742 ppm	1.9079 ppm
Concentration per Run 3	3.6186 ppm	1.4079 ppm	13.8363 ppm	1.3154 ppm	2.0556 ppm	0.9764 ppm	1.8991 ppm
Concentration RSD	3.2 %	0.5 %	3.2 %	0.2 %	0.1 %	0.2 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	29.6685 ppm	1.0215 ppm	0.8944 ppm	2.6409 ppm	0.6945 ppm	1.6209 ppm	1.7965 ppm
Concentration per Run 1	29.6225 ppm	1.0219 ppm	0.8610 ppm	2.6336 ppm	0.6926 ppm	1.6166 ppm	1.7950 ppm
Concentration per Run 2	29.7448 ppm	1.0234 ppm	0.9086 ppm	2.6485 ppm	0.6979 ppm	1.6258 ppm	1.7991 ppm
Concentration per Run 3	29.6381 ppm	1.0193 ppm	0.9135 ppm	2.6405 ppm	0.6930 ppm	1.6203 ppm	1.7952 ppm
Concentration RSD	0.2 %	0.2 %	3.2 %	0.3 %	0.4 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	114.4231 %	114.0009 %	112.8040 %	103.4377 %	101.4484 %	103.6247 %
Concentration per Run 1	118.1446 %	114.3821 %	112.3270 %	106.8545 %	101.0067 %	103.9450 %
Concentration per Run 2	112.7435 %	113.6249 %	113.2419 %	102.2046 %	101.7353 %	103.2709 %
Concentration per Run 3	112.3811 %	113.9956 %	112.8430 %	101.2540 %	101.6032 %	103.6584 %
Concentration RSD	2.8 %	0.3 %	0.4 %	2.9 %	0.4 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339965-06D2 WG1802988
 Analysis started at: 8/2/2023 1:37:51 PM
 Rack: 1
 Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	61.4283 ppm	0.0447 ppm	0.0409 ppm	0.4123 ppm	0.0024 ppm	1,162.4931 ppm
Concentration per Run 1	-0.0007 ppm	59.8779 ppm	0.0467 ppm	0.0408 ppm	0.4016 ppm	0.0022 ppm	1,127.7996 ppm
Concentration per Run 2	-0.0001 ppm	62.3156 ppm	0.0443 ppm	0.0410 ppm	0.4187 ppm	0.0023 ppm	1,183.5503 ppm
Concentration per Run 3	-0.0002 ppm	62.0912 ppm	0.0430 ppm	0.0410 ppm	0.4167 ppm	0.0026 ppm	1,176.1296 ppm
Concentration RSD	109.5 %	2.2 %	4.2 %	0.2 %	2.3 %	9.2 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0006 ppm	0.0525 ppm	0.0882 ppm	0.1964 ppm	137.2334 ppm	4.8074 ppm	318.9422 ppm
Concentration per Run 1	0.0006 ppm	0.0523 ppm	0.0886 ppm	0.1970 ppm	133.7368 ppm	4.6557 ppm	317.6099 ppm
Concentration per Run 2	0.0005 ppm	0.0529 ppm	0.0884 ppm	0.1960 ppm	139.1150 ppm	4.8782 ppm	321.9578 ppm
Concentration per Run 3	0.0006 ppm	0.0522 ppm	0.0875 ppm	0.1963 ppm	138.8482 ppm	4.8883 ppm	317.2588 ppm
Concentration RSD	9.4 %	0.7 %	0.6 %	0.2 %	2.2 %	2.7 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.8353 ppm	0.0079 ppm	1.6728 ppm	0.1227 ppm	0.1235 ppm	0.0158 ppm	-0.0121 ppm
Concentration per Run 1	4.7197 ppm	0.0084 ppm	1.6195 ppm	0.1231 ppm	0.1239 ppm	0.0144 ppm	-0.0079 ppm
Concentration per Run 2	4.9002 ppm	0.0079 ppm	1.6873 ppm	0.1225 ppm	0.1245 ppm	0.0189 ppm	-0.0154 ppm
Concentration per Run 3	4.8858 ppm	0.0075 ppm	1.7116 ppm	0.1224 ppm	0.1221 ppm	0.0140 ppm	-0.0131 ppm
Concentration RSD	2.1 %	5.6 %	2.9 %	0.3 %	1.0 %	17.3 %	31.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	14.8403 ppm	0.0088 ppm	1.1445 ppm	0.2592 ppm	0.0018 ppm	0.1261 ppm	0.4081 ppm
Concentration per Run 1	14.8993 ppm	0.0090 ppm	1.1155 ppm	0.2602 ppm	0.0054 ppm	0.1264 ppm	0.4094 ppm
Concentration per Run 2	14.8292 ppm	0.0093 ppm	1.1600 ppm	0.2581 ppm	0.0007 ppm	0.1266 ppm	0.4082 ppm
Concentration per Run 3	14.7923 ppm	0.0081 ppm	1.1579 ppm	0.2593 ppm	-0.0005 ppm	0.1253 ppm	0.4066 ppm
Concentration RSD	0.4 %	7.1 %	2.2 %	0.4 %	170.7 %	0.6 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	117.3455 %	111.7812 %	109.2497 %	98.0568 %	85.9963 %	94.3664 %
Concentration per Run 1	120.0593 %	112.1351 %	109.0080 %	100.7102 %	85.7437 %	94.6871 %
Concentration per Run 2	116.3510 %	111.4477 %	109.6371 %	96.7791 %	86.2202 %	94.1572 %
Concentration per Run 3	115.6262 %	111.7609 %	109.1039 %	96.6811 %	86.0252 %	94.2549 %
Concentration RSD	2.0 %	0.3 %	0.3 %	2.3 %	0.3 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339965-07D2 WG1802988
 Analysis started at: 8/2/2023 1:42:31 PM
 Rack: 1
 Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	80.1850 ppm	0.0555 ppm	0.0347 ppm	0.5581 ppm	0.0035 ppm	653.6645 ppm
Concentration per Run 1	-0.0001 ppm	78.1812 ppm	0.0579 ppm	0.0349 ppm	0.5443 ppm	0.0033 ppm	643.0376 ppm
Concentration per Run 2	-0.0002 ppm	81.2757 ppm	0.0579 ppm	0.0347 ppm	0.5663 ppm	0.0036 ppm	666.1487 ppm
Concentration per Run 3	0.0002 ppm	81.0982 ppm	0.0507 ppm	0.0345 ppm	0.5639 ppm	0.0037 ppm	651.8074 ppm
Concentration RSD	376.8 %	2.2 %	7.5 %	0.5 %	2.2 %	6.6 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0004 ppm	0.0688 ppm	0.1127 ppm	0.2451 ppm	177.7499 ppm	5.8130 ppm	180.3691 ppm
Concentration per Run 1	0.0005 ppm	0.0689 ppm	0.1125 ppm	0.2450 ppm	173.2805 ppm	5.6772 ppm	181.1686 ppm
Concentration per Run 2	0.0005 ppm	0.0684 ppm	0.1125 ppm	0.2451 ppm	180.0372 ppm	5.9130 ppm	180.0090 ppm
Concentration per Run 3	0.0003 ppm	0.0689 ppm	0.1131 ppm	0.2452 ppm	179.9318 ppm	5.8489 ppm	179.9298 ppm
Concentration RSD	19.9 %	0.4 %	0.3 %	0.0 %	2.2 %	2.1 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	6.0906 ppm	0.0082 ppm	1.1981 ppm	0.1607 ppm	0.2384 ppm	0.0163 ppm	-0.0054 ppm
Concentration per Run 1	5.9356 ppm	0.0082 ppm	1.1774 ppm	0.1608 ppm	0.2399 ppm	0.0163 ppm	-0.0065 ppm
Concentration per Run 2	6.1760 ppm	0.0081 ppm	1.2110 ppm	0.1600 ppm	0.2368 ppm	0.0177 ppm	-0.0039 ppm
Concentration per Run 3	6.1604 ppm	0.0082 ppm	1.2058 ppm	0.1614 ppm	0.2384 ppm	0.0150 ppm	-0.0056 ppm
Concentration RSD	2.2 %	0.3 %	1.5 %	0.4 %	0.7 %	8.4 %	25.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	15.4783 ppm	0.0061 ppm	0.8017 ppm	0.2858 ppm	0.0026 ppm	0.1530 ppm	0.5266 ppm
Concentration per Run 1	15.5305 ppm	0.0061 ppm	0.7818 ppm	0.2843 ppm	0.0031 ppm	0.1523 ppm	0.5286 ppm
Concentration per Run 2	15.4344 ppm	0.0060 ppm	0.8121 ppm	0.2872 ppm	0.0029 ppm	0.1528 ppm	0.5251 ppm
Concentration per Run 3	15.4700 ppm	0.0062 ppm	0.8112 ppm	0.2859 ppm	0.0018 ppm	0.1540 ppm	0.5260 ppm
Concentration RSD	0.3 %	2.2 %	2.2 %	0.5 %	27.3 %	0.6 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	122.2039 %	117.9534 %	116.3015 %	100.2114 %	90.8593 %	97.6540 %
Concentration per Run 1	123.7818 %	118.3154 %	116.5637 %	102.1806 %	90.7223 %	98.1483 %
Concentration per Run 2	121.9562 %	117.5894 %	116.1919 %	99.5010 %	90.9127 %	97.2029 %
Concentration per Run 3	120.8736 %	117.9555 %	116.1490 %	98.9528 %	90.9430 %	97.6106 %
Concentration RSD	1.2 %	0.3 %	0.2 %	1.7 %	0.1 %	0.5 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339294-02 WG1802973
 Analysis started at: 8/2/2023 1:47:08 PM
 Rack: 1
 Vial: 45

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	188.4802 ppm	0.1691 ppm	0.0374 ppm	1.4667 ppm	0.0162 ppm	35.9177 ppm
Concentration per Run 1	-0.0007 ppm	185.0465 ppm	0.1691 ppm	0.0380 ppm	1.4408 ppm	0.0159 ppm	35.2708 ppm
Concentration per Run 2	-0.0003 ppm	189.9190 ppm	0.1719 ppm	0.0371 ppm	1.4776 ppm	0.0164 ppm	36.1601 ppm
Concentration per Run 3	0.0000 ppm	190.4750 ppm	0.1663 ppm	0.0370 ppm	1.4818 ppm	0.0163 ppm	36.3221 ppm
Concentration RSD	108.1 %	1.6 %	1.7 %	1.5 %	1.5 %	1.8 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0007 ppm	0.2040 ppm	0.2749 ppm	0.3318 ppm	384.8558 ppm	15.4400 ppm	34.7233 ppm
Concentration per Run 1	0.0006 ppm	0.2039 ppm	0.2747 ppm	0.3318 ppm	383.4113 ppm	15.1177 ppm	34.7087 ppm
Concentration per Run 2	0.0007 ppm	0.2046 ppm	0.2750 ppm	0.3305 ppm	383.0248 ppm	15.5737 ppm	34.6737 ppm
Concentration per Run 3	0.0006 ppm	0.2034 ppm	0.2751 ppm	0.3330 ppm	388.1314 ppm	15.6286 ppm	34.7876 ppm
Concentration RSD	12.9 %	0.3 %	0.1 %	0.4 %	0.7 %	1.8 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	17.7634 ppm	0.0221 ppm	0.5564 ppm	0.3369 ppm	0.4680 ppm	0.0262 ppm	0.0110 ppm
Concentration per Run 1	17.4412 ppm	0.0223 ppm	0.5298 ppm	0.3375 ppm	0.4705 ppm	0.0262 ppm	0.0080 ppm
Concentration per Run 2	17.8972 ppm	0.0219 ppm	0.5815 ppm	0.3386 ppm	0.4684 ppm	0.0246 ppm	0.0134 ppm
Concentration per Run 3	17.9518 ppm	0.0221 ppm	0.5579 ppm	0.3345 ppm	0.4651 ppm	0.0278 ppm	0.0117 ppm
Concentration RSD	1.6 %	0.8 %	4.7 %	0.6 %	0.6 %	6.0 %	25.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	38.1278 ppm	0.0089 ppm	0.1870 ppm	0.6020 ppm	0.0037 ppm	0.4063 ppm	1.5146 ppm
Concentration per Run 1	38.1508 ppm	0.0093 ppm	0.1836 ppm	0.6036 ppm	0.0043 ppm	0.4067 ppm	1.5175 ppm
Concentration per Run 2	38.2506 ppm	0.0096 ppm	0.1888 ppm	0.5967 ppm	0.0048 ppm	0.4062 ppm	1.5185 ppm
Concentration per Run 3	37.9819 ppm	0.0079 ppm	0.1887 ppm	0.6056 ppm	0.0019 ppm	0.4061 ppm	1.5079 ppm
Concentration RSD	0.4 %	10.0 %	1.6 %	0.8 %	41.6 %	0.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	169.4902 %	166.1608 %	165.4129 %	108.3969 %	102.8087 %	106.9545 %
Concentration per Run 1	169.7328 %	166.3274 %	165.2959 %	109.1567 %	102.5884 %	107.1392 %
Concentration per Run 2	169.5142 %	166.6780 %	165.2816 %	108.0964 %	102.7041 %	107.2977 %
Concentration per Run 3	169.2236 %	165.4771 %	165.6614 %	107.9375 %	103.1337 %	106.4267 %
Concentration RSD	0.2 %	0.4 %	0.1 %	0.6 %	0.3 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: L2339294-01 WG1802973
 Analysis started at: 8/2/2023 1:51:37 PM
 Rack: 1
 Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	160.9566 ppm	0.1608 ppm	0.0915 ppm	1.2102 ppm	0.0134 ppm	35.4081 ppm
Concentration per Run 1	-0.0013 ppm	156.7397 ppm	0.1603 ppm	0.0910 ppm	1.1788 ppm	0.0131 ppm	34.4690 ppm
Concentration per Run 2	0.0006 ppm	163.4966 ppm	0.1580 ppm	0.0916 ppm	1.2286 ppm	0.0136 ppm	35.9709 ppm
Concentration per Run 3	0.0006 ppm	162.6333 ppm	0.1643 ppm	0.0919 ppm	1.2233 ppm	0.0135 ppm	35.7843 ppm
Concentration RSD	9.883.2 %	2.3 %	2.0 %	0.5 %	2.3 %	1.9 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.1696 ppm	0.2353 ppm	0.5164 ppm	349.7261 ppm	18.3040 ppm	32.0103 ppm
Concentration per Run 1	0.0003 ppm	0.1696 ppm	0.2349 ppm	0.5175 ppm	340.6315 ppm	17.9378 ppm	31.9763 ppm
Concentration per Run 2	0.0004 ppm	0.1683 ppm	0.2358 ppm	0.5147 ppm	354.2546 ppm	18.4408 ppm	32.0424 ppm
Concentration per Run 3	0.0003 ppm	0.1709 ppm	0.2351 ppm	0.5169 ppm	354.2921 ppm	18.5333 ppm	32.0121 ppm
Concentration RSD	12.9 %	0.8 %	0.2 %	0.3 %	2.3 %	1.8 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	14.0417 ppm	0.0231 ppm	0.4172 ppm	0.2873 ppm	0.3353 ppm	0.0238 ppm	0.0115 ppm
Concentration per Run 1	13.6765 ppm	0.0230 ppm	0.3961 ppm	0.2873 ppm	0.3354 ppm	0.0282 ppm	0.0105 ppm
Concentration per Run 2	14.2575 ppm	0.0228 ppm	0.4390 ppm	0.2852 ppm	0.3328 ppm	0.0212 ppm	0.0146 ppm
Concentration per Run 3	14.1912 ppm	0.0236 ppm	0.4167 ppm	0.2895 ppm	0.3376 ppm	0.0221 ppm	0.0093 ppm
Concentration RSD	2.3 %	1.9 %	5.1 %	0.7 %	0.7 %	16.0 %	24.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	31.5467 ppm	0.0084 ppm	0.2488 ppm	0.5931 ppm	0.0031 ppm	0.3691 ppm	2.1604 ppm
Concentration per Run 1	31.5116 ppm	0.0086 ppm	0.2427 ppm	0.5902 ppm	0.0019 ppm	0.3682 ppm	2.1595 ppm
Concentration per Run 2	31.3388 ppm	0.0080 ppm	0.2527 ppm	0.5927 ppm	0.0027 ppm	0.3696 ppm	2.1449 ppm
Concentration per Run 3	31.7898 ppm	0.0088 ppm	0.2511 ppm	0.5962 ppm	0.0046 ppm	0.3697 ppm	2.1770 ppm
Concentration RSD	0.7 %	4.9 %	2.2 %	0.5 %	46.2 %	0.2 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	151.5191 %	149.1997 %	146.7056 %	108.8748 %	102.2922 %	107.6420 %
Concentration per Run 1	153.4416 %	150.0284 %	147.0608 %	111.0703 %	102.5177 %	108.2038 %
Concentration per Run 2	151.2732 %	148.4756 %	146.8277 %	108.1052 %	102.7762 %	107.1714 %
Concentration per Run 3	149.8424 %	149.0952 %	146.2281 %	107.4488 %	101.5827 %	107.5508 %
Concentration RSD	1.2 %	0.5 %	0.3 %	1.8 %	0.6 %	0.5 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1802973-3 WG1802973
 Analysis started at: 8/2/2023 1:56:04 PM
 Rack: 1
 Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0931 ppm	195.4865 ppm	0.4074 ppm	1.8174 ppm	5.1697 ppm	0.1172 ppm	51.9188 ppm
Concentration per Run 1	0.0934 ppm	189.6964 ppm	0.4063 ppm	1.8216 ppm	5.0210 ppm	0.1137 ppm	50.3863 ppm
Concentration per Run 2	0.0937 ppm	198.0335 ppm	0.4060 ppm	1.8110 ppm	5.2327 ppm	0.1186 ppm	52.5715 ppm
Concentration per Run 3	0.0923 ppm	198.7296 ppm	0.4099 ppm	1.8195 ppm	5.2553 ppm	0.1193 ppm	52.7987 ppm
Concentration RSD	0.8 %	2.6 %	0.5 %	0.3 %	2.5 %	2.6 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.1013 ppm	1.1187 ppm	0.6415 ppm	1.0495 ppm	344.2054 ppm	40.4475 ppm	53.3695 ppm
Concentration per Run 1	0.1016 ppm	1.1218 ppm	0.6434 ppm	1.0508 ppm	331.3901 ppm	39.2656 ppm	53.4113 ppm
Concentration per Run 2	0.1010 ppm	1.1165 ppm	0.6430 ppm	1.0528 ppm	352.9898 ppm	40.9199 ppm	53.5916 ppm
Concentration per Run 3	0.1015 ppm	1.1177 ppm	0.6381 ppm	1.0448 ppm	348.2363 ppm	41.1570 ppm	53.1056 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %	0.4 %	3.3 %	2.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	13.8636 ppm	1.7911 ppm	20.1740 ppm	1.2129 ppm	1.3116 ppm	0.6164 ppm	0.2492 ppm
Concentration per Run 1	13.4546 ppm	1.7930 ppm	19.5677 ppm	1.2169 ppm	1.3136 ppm	0.6158 ppm	0.2528 ppm
Concentration per Run 2	14.0470 ppm	1.7894 ppm	20.4802 ppm	1.2110 ppm	1.3080 ppm	0.6168 ppm	0.2473 ppm
Concentration per Run 3	14.0893 ppm	1.7911 ppm	20.4741 ppm	1.2107 ppm	1.3133 ppm	0.6165 ppm	0.2475 ppm
Concentration RSD	2.6 %	0.1 %	2.6 %	0.3 %	0.2 %	0.1 %	1.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	28.3252 ppm	1.7957 ppm	2.1865 ppm	1.9649 ppm	0.2296 ppm	1.3726 ppm	3.2571 ppm
Concentration per Run 1	28.4112 ppm	1.7985 ppm	2.1220 ppm	1.9678 ppm	0.2277 ppm	1.3771 ppm	3.2647 ppm
Concentration per Run 2	28.2706 ppm	1.7927 ppm	2.2155 ppm	1.9699 ppm	0.2315 ppm	1.3754 ppm	3.2529 ppm
Concentration per Run 3	28.2937 ppm	1.7960 ppm	2.2220 ppm	1.9571 ppm	0.2297 ppm	1.3654 ppm	3.2537 ppm
Concentration RSD	0.3 %	0.2 %	2.6 %	0.4 %	0.8 %	0.5 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	151.7242 %	147.7614 %	145.7042 %	107.8340 %	101.2025 %	105.6152 %
Concentration per Run 1	154.8601 %	147.5456 %	145.5965 %	111.0804 %	101.1339 %	105.4134 %
Concentration per Run 2	149.1376 %	147.1688 %	145.6959 %	105.8113 %	101.3102 %	105.0186 %
Concentration per Run 3	151.1748 %	148.5699 %	145.8201 %	106.6102 %	101.1635 %	106.4135 %
Concentration RSD	1.9 %	0.5 %	0.1 %	2.6 %	0.1 %	0.7 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1802973-4 WG1802973
 Analysis started at: 8/2/2023 2:00:29 PM
 Rack: 1
 Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	158.3180 ppm	0.1701 ppm	0.0884 ppm	1.0955 ppm	0.0137 ppm	33.2999 ppm
Concentration per Run 1	0.0005 ppm	154.4383 ppm	0.1710 ppm	0.0882 ppm	1.0689 ppm	0.0134 ppm	32.4837 ppm
Concentration per Run 2	0.0005 ppm	160.1584 ppm	0.1692 ppm	0.0887 ppm	1.1077 ppm	0.0139 ppm	33.7191 ppm
Concentration per Run 3	0.0001 ppm	160.3574 ppm	0.1699 ppm	0.0882 ppm	1.1099 ppm	0.0139 ppm	33.6970 ppm
Concentration RSD	66.6 %	2.1 %	0.5 %	0.3 %	2.1 %	2.0 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0004 ppm	0.1671 ppm	0.2450 ppm	0.4888 ppm	375.4931 ppm	18.1886 ppm	31.2719 ppm
Concentration per Run 1	-0.0003 ppm	0.1680 ppm	0.2452 ppm	0.4889 ppm	366.1050 ppm	17.7900 ppm	31.2805 ppm
Concentration per Run 2	-0.0003 ppm	0.1673 ppm	0.2445 ppm	0.4882 ppm	376.3184 ppm	18.3233 ppm	31.2748 ppm
Concentration per Run 3	-0.0005 ppm	0.1661 ppm	0.2452 ppm	0.4891 ppm	384.0558 ppm	18.4524 ppm	31.2606 ppm
Concentration RSD	24.9 %	0.6 %	0.2 %	0.1 %	2.4 %	1.9 %	0.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	11.1123 ppm	0.0235 ppm	0.4093 ppm	0.3377 ppm	0.3325 ppm	0.0241 ppm	0.0091 ppm
Concentration per Run 1	10.8317 ppm	0.0236 ppm	0.4044 ppm	0.3382 ppm	0.3342 ppm	0.0235 ppm	0.0071 ppm
Concentration per Run 2	11.2399 ppm	0.0237 ppm	0.4066 ppm	0.3387 ppm	0.3318 ppm	0.0247 ppm	0.0079 ppm
Concentration per Run 3	11.2652 ppm	0.0230 ppm	0.4171 ppm	0.3362 ppm	0.3316 ppm	0.0242 ppm	0.0122 ppm
Concentration RSD	2.2 %	1.5 %	1.7 %	0.4 %	0.4 %	2.4 %	30.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	36.4884 ppm	0.0074 ppm	0.2335 ppm	0.5953 ppm	0.0028 ppm	0.3770 ppm	2.1082 ppm
Concentration per Run 1	36.5493 ppm	0.0076 ppm	0.2274 ppm	0.5873 ppm	0.0030 ppm	0.3776 ppm	2.1171 ppm
Concentration per Run 2	36.5774 ppm	0.0070 ppm	0.2363 ppm	0.5921 ppm	0.0022 ppm	0.3766 ppm	2.1108 ppm
Concentration per Run 3	36.3385 ppm	0.0077 ppm	0.2368 ppm	0.6065 ppm	0.0030 ppm	0.3769 ppm	2.0966 ppm
Concentration RSD	0.4 %	5.0 %	2.3 %	1.7 %	17.3 %	0.1 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	151.6863 %	148.7400 %	147.5583 %	108.7959 %	102.7088 %	107.1943 %
Concentration per Run 1	153.2598 %	148.9368 %	147.1140 %	110.9021 %	102.2278 %	107.3079 %
Concentration per Run 2	151.4388 %	148.8975 %	147.7776 %	108.0267 %	102.7705 %	107.2830 %
Concentration per Run 3	150.3603 %	148.3859 %	147.7834 %	107.4588 %	103.1280 %	106.9920 %
Concentration RSD	1.0 %	0.2 %	0.3 %	1.7 %	0.4 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1802973-5 WG1802973
 Analysis started at: 8/2/2023 2:04:57 PM
 Rack: 1
 Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0621 ppm	156.8845 ppm	0.3988 ppm	2.0342 ppm	4.9268 ppm	0.1149 ppm	52.8132 ppm
Concentration per Run 1	0.0619 ppm	153.9432 ppm	0.4006 ppm	2.0303 ppm	4.8420 ppm	0.1127 ppm	51.8206 ppm
Concentration per Run 2	0.0621 ppm	158.2558 ppm	0.3982 ppm	2.0360 ppm	4.9677 ppm	0.1156 ppm	53.2811 ppm
Concentration per Run 3	0.0623 ppm	158.4546 ppm	0.3976 ppm	2.0363 ppm	4.9707 ppm	0.1165 ppm	53.3378 ppm
Concentration RSD	0.3 %	1.6 %	0.4 %	0.2 %	1.5 %	1.7 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0980 ppm	1.0747 ppm	0.6041 ppm	0.9916 ppm	334.5215 ppm	37.1691 ppm	49.0890 ppm
Concentration per Run 1	0.0979 ppm	1.0724 ppm	0.6068 ppm	0.9927 ppm	321.5260 ppm	36.4453 ppm	49.2621 ppm
Concentration per Run 2	0.0983 ppm	1.0756 ppm	0.6006 ppm	0.9883 ppm	340.8408 ppm	37.5818 ppm	48.8907 ppm
Concentration per Run 3	0.0978 ppm	1.0760 ppm	0.6048 ppm	0.9939 ppm	341.1977 ppm	37.4801 ppm	49.1143 ppm
Concentration RSD	0.3 %	0.2 %	0.5 %	0.3 %	3.4 %	1.7 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	14.2216 ppm	1.8798 ppm	20.1953 ppm	1.1497 ppm	1.2976 ppm	0.9243 ppm	0.2593 ppm
Concentration per Run 1	13.9708 ppm	1.8710 ppm	19.7922 ppm	1.1469 ppm	1.2931 ppm	0.9172 ppm	0.2567 ppm
Concentration per Run 2	14.3306 ppm	1.8840 ppm	20.3697 ppm	1.1516 ppm	1.2991 ppm	0.9234 ppm	0.2604 ppm
Concentration per Run 3	14.3633 ppm	1.8843 ppm	20.4239 ppm	1.1507 ppm	1.3006 ppm	0.9321 ppm	0.2608 ppm
Concentration RSD	1.5 %	0.4 %	1.7 %	0.2 %	0.3 %	0.8 %	0.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	31.1385 ppm	1.8996 ppm	2.1194 ppm	2.4355 ppm	0.2320 ppm	1.3019 ppm	2.9158 ppm
Concentration per Run 1	31.0629 ppm	1.8911 ppm	2.0801 ppm	2.4392 ppm	0.2311 ppm	1.3063 ppm	2.9085 ppm
Concentration per Run 2	31.1889 ppm	1.9024 ppm	2.1374 ppm	2.4258 ppm	0.2318 ppm	1.2971 ppm	2.9210 ppm
Concentration per Run 3	31.1636 ppm	1.9055 ppm	2.1407 ppm	2.4415 ppm	0.2332 ppm	1.3022 ppm	2.9180 ppm
Concentration RSD	0.2 %	0.4 %	1.6 %	0.4 %	0.5 %	0.4 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	145.5825 %	144.4404 %	141.9185 %	106.3779 %	101.1807 %	105.2974 %
Concentration per Run 1	147.5765 %	143.3875 %	142.1561 %	108.6314 %	101.4913 %	104.6029 %
Concentration per Run 2	144.8557 %	144.8429 %	141.9760 %	105.5566 %	101.1299 %	105.7165 %
Concentration per Run 3	144.3153 %	145.0906 %	141.6235 %	104.9455 %	100.9210 %	105.5727 %
Concentration RSD	1.2 %	0.6 %	0.2 %	1.9 %	0.3 %	0.6 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1802973-6d5 WG1802973
 Analysis started at: 8/2/2023 2:09:21 PM
 Rack: 1
 Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	31.5784 ppm	0.0323 ppm	0.0220 ppm	0.2337 ppm	0.0025 ppm	6.9838 ppm
Concentration per Run 1	0.0001 ppm	30.0503 ppm	0.0321 ppm	0.0223 ppm	0.2216 ppm	0.0024 ppm	6.6317 ppm
Concentration per Run 2	0.0002 ppm	32.2716 ppm	0.0333 ppm	0.0222 ppm	0.2392 ppm	0.0025 ppm	7.1468 ppm
Concentration per Run 3	0.0001 ppm	32.4133 ppm	0.0316 ppm	0.0215 ppm	0.2403 ppm	0.0027 ppm	7.1728 ppm
Concentration RSD	27.9 %	4.2 %	2.8 %	2.0 %	4.5 %	6.0 %	4.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0336 ppm	0.0484 ppm	0.0989 ppm	70.6123 ppm	3.5796 ppm	6.4531 ppm
Concentration per Run 1	0.0001 ppm	0.0338 ppm	0.0484 ppm	0.0991 ppm	67.2065 ppm	3.4107 ppm	6.4602 ppm
Concentration per Run 2	0.0000 ppm	0.0337 ppm	0.0481 ppm	0.0994 ppm	72.1447 ppm	3.6138 ppm	6.4469 ppm
Concentration per Run 3	0.0000 ppm	0.0333 ppm	0.0487 ppm	0.0980 ppm	72.4857 ppm	3.7142 ppm	6.4523 ppm
Concentration RSD	131.2 %	0.7 %	0.6 %	0.8 %	4.2 %	4.3 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.7932 ppm	0.0082 ppm	0.0865 ppm	0.0546 ppm	0.0673 ppm	0.0086 ppm	0.0061 ppm
Concentration per Run 1	2.6610 ppm	0.0093 ppm	0.0920 ppm	0.0546 ppm	0.0672 ppm	0.0105 ppm	0.0094 ppm
Concentration per Run 2	2.8544 ppm	0.0081 ppm	0.0929 ppm	0.0553 ppm	0.0684 ppm	0.0078 ppm	0.0056 ppm
Concentration per Run 3	2.8644 ppm	0.0072 ppm	0.0747 ppm	0.0541 ppm	0.0661 ppm	0.0076 ppm	0.0033 ppm
Concentration RSD	4.1 %	12.7 %	11.9 %	1.1 %	1.7 %	18.7 %	50.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.0994 ppm	0.0046 ppm	0.0486 ppm	0.1198 ppm	0.0017 ppm	0.0737 ppm	0.4266 ppm
Concentration per Run 1	6.1299 ppm	0.0055 ppm	0.0464 ppm	0.1206 ppm	0.0019 ppm	0.0734 ppm	0.4288 ppm
Concentration per Run 2	6.1005 ppm	0.0043 ppm	0.0497 ppm	0.1189 ppm	0.0008 ppm	0.0744 ppm	0.4271 ppm
Concentration per Run 3	6.0678 ppm	0.0041 ppm	0.0498 ppm	0.1200 ppm	0.0024 ppm	0.0732 ppm	0.4239 ppm
Concentration RSD	0.5 %	15.6 %	3.9 %	0.7 %	47.5 %	0.8 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.8266 %	109.1208 %	109.2317 %	103.2991 %	100.0945 %	102.5230 %
Concentration per Run 1	114.8627 %	108.8507 %	108.9834 %	108.2128 %	99.5981 %	102.4176 %
Concentration per Run 2	107.5113 %	109.6743 %	109.3905 %	100.9890 %	100.1787 %	102.8711 %
Concentration per Run 3	107.1058 %	108.8373 %	109.3211 %	100.6956 %	100.5066 %	102.2804 %
Concentration RSD	4.0 %	0.4 %	0.2 %	4.1 %	0.5 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCV
 Analysis started at: 8/2/2023 2:13:46 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5070 ppm	0.5160 ppm	0.5145 ppm	0.4933 ppm	0.4921 ppm	0.5127 ppm	0.5078 ppm
Concentration per Run 1	0.5070 ppm	0.4971 ppm	0.5117 ppm	0.4920 ppm	0.4711 ppm	0.4896 ppm	0.4977 ppm
Concentration per Run 2	0.5091 ppm	0.5243 ppm	0.5147 ppm	0.4939 ppm	0.4989 ppm	0.5209 ppm	0.5081 ppm
Concentration per Run 3	0.5050 ppm	0.5265 ppm	0.5171 ppm	0.4942 ppm	0.5062 ppm	0.5277 ppm	0.5175 ppm
Recovery Percentage 1	101.409 %	103.193 %	102.897 %	98.668 %	98.410 %	102.546 %	101.555 %
Concentration RSD	0.4 %	3.2 %	0.5 %	0.2 %	3.8 %	4.0 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4822 ppm	0.4982 ppm	0.5183 ppm	0.5093 ppm	0.5208 ppm	5.2405 ppm	0.5107 ppm
Concentration per Run 1	0.4814 ppm	0.4972 ppm	0.5196 ppm	0.5099 ppm	0.5005 ppm	5.0149 ppm	0.5104 ppm
Concentration per Run 2	0.4822 ppm	0.4991 ppm	0.5192 ppm	0.5098 ppm	0.5270 ppm	5.3608 ppm	0.5124 ppm
Concentration per Run 3	0.4829 ppm	0.4983 ppm	0.5161 ppm	0.5083 ppm	0.5351 ppm	5.3457 ppm	0.5093 ppm
Recovery Percentage 1	96.437 %	99.642 %	103.662 %	101.861 %	104.167 %	104.810 %	102.138 %
Concentration RSD	0.2 %	0.2 %	0.4 %	0.2 %	3.5 %	3.7 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5161 ppm	0.4882 ppm	10.1879 ppm	0.4927 ppm	0.5017 ppm	0.4912 ppm	0.5119 ppm
Concentration per Run 1	0.4943 ppm	0.4861 ppm	9.7337 ppm	0.4921 ppm	0.5018 ppm	0.4863 ppm	0.5087 ppm
Concentration per Run 2	0.5239 ppm	0.4887 ppm	10.3437 ppm	0.4927 ppm	0.5008 ppm	0.4918 ppm	0.5131 ppm
Concentration per Run 3	0.5303 ppm	0.4899 ppm	10.4863 ppm	0.4935 ppm	0.5026 ppm	0.4954 ppm	0.5139 ppm
Recovery Percentage 1	103.229 %	97.646 %	101.879 %	98.550 %	100.345 %	98.235 %	102.378 %
Concentration RSD	3.7 %	0.4 %	3.9 %	0.1 %	0.2 %	0.9 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2067 ppm	0.5028 ppm	0.4909 ppm	0.4897 ppm	0.5137 ppm	0.5028 ppm	0.4953 ppm
Concentration per Run 1	5.2050 ppm	0.5017 ppm	0.4692 ppm	0.4902 ppm	0.5118 ppm	0.5042 ppm	0.4942 ppm
Concentration per Run 2	5.2125 ppm	0.5031 ppm	0.4989 ppm	0.4905 ppm	0.5138 ppm	0.5036 ppm	0.4949 ppm
Concentration per Run 3	5.2026 ppm	0.5035 ppm	0.5047 ppm	0.4883 ppm	0.5155 ppm	0.5007 ppm	0.4969 ppm
Recovery Percentage 1	104.134 %	100.554 %	98.187 %	97.937 %	102.739 %	100.565 %	99.065 %
Concentration RSD	0.1 %	0.2 %	3.9 %	0.3 %	0.4 %	0.4 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.4504 %	101.0114 %	100.4238 %	100.6991 %	100.4278 %	101.9045 %
Concentration per Run 1	103.7581 %	100.4982 %	100.6713 %	104.5627 %	100.6869 %	101.5175 %
Concentration per Run 2	96.9292 %	101.1348 %	100.7563 %	98.7485 %	100.6089 %	101.9719 %
Concentration per Run 3	97.6639 %	101.4012 %	99.8437 %	98.7860 %	99.9876 %	102.2241 %
Recovery Percentage 1						
Concentration RSD	3.8 %	0.5 %	0.5 %	3.3 %	0.4 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCB
 Analysis started at: 8/2/2023 2:18:07 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0007 ppm	0.0010 ppm	0.0028 ppm	0.0029 ppm	0.0007 ppm	0.0003 ppm	0.0111 ppm
Concentration per Run 1	0.0002 ppm	-0.0230 ppm	0.0021 ppm	0.0035 ppm	0.0007 ppm	0.0002 ppm	0.0170 ppm
Concentration per Run 2	0.0007 ppm	0.0117 ppm	0.0036 ppm	0.0029 ppm	0.0007 ppm	0.0003 ppm	0.0015 ppm
Concentration per Run 3	0.0011 ppm	0.0143 ppm	0.0028 ppm	0.0022 ppm	0.0007 ppm	0.0002 ppm	0.0147 ppm
Recovery Percentage 1	9.511 %	0.971 %	56.195 %	9.648 %	7.068 %	5.039 %	11.083 %
Concentration RSD	64.5 %	2,142.6 %	25.7 %	21.8 %	3.9 %	24.8 %	75.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0002 ppm	0.0005 ppm	-0.0003 ppm	0.0205 ppm	0.0158 ppm	0.0088 ppm
Concentration per Run 1	0.0002 ppm	0.0003 ppm	0.0002 ppm	-0.0004 ppm	0.0141 ppm	0.0290 ppm	0.0077 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	0.0007 ppm	-0.0002 ppm	0.0271 ppm	0.0106 ppm	0.0107 ppm
Concentration per Run 3	0.0002 ppm	0.0000 ppm	0.0006 ppm	-0.0003 ppm	0.0203 ppm	0.0077 ppm	0.0080 ppm
Recovery Percentage 1	5.299 %	0.860 %	5.037 %	-2.893 %	40.928 %	0.631 %	8.799 %
Concentration RSD	12.8 %	105.5 %	48.3 %	44.8 %	31.8 %	73.4 %	18.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0018 ppm	0.0016 ppm	0.0005 ppm	0.0005 ppm	0.0000 ppm	0.0026 ppm	0.0010 ppm
Concentration per Run 1	0.0015 ppm	0.0021 ppm	0.0057 ppm	0.0011 ppm	-0.0001 ppm	0.0031 ppm	0.0037 ppm
Concentration per Run 2	0.0013 ppm	0.0018 ppm	-0.0119 ppm	-0.0001 ppm	-0.0004 ppm	0.0025 ppm	0.0032 ppm
Concentration per Run 3	0.0026 ppm	0.0009 ppm	0.0076 ppm	0.0004 ppm	0.0006 ppm	0.0024 ppm	-0.0039 ppm
Recovery Percentage 1	18.074 %	3.166 %	0.023 %	1.858 %	0.406 %	5.283 %	10.046 %
Concentration RSD	36.8 %	40.1 %	2,373.4 %	122.3 %	1,298.8 %	14.3 %	421.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0094 ppm	0.0021 ppm	0.0005 ppm	0.0008 ppm	0.0015 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 1	0.0101 ppm	0.0019 ppm	0.0004 ppm	0.0012 ppm	0.0035 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 2	0.0098 ppm	0.0026 ppm	0.0003 ppm	0.0006 ppm	-0.0011 ppm	-0.0002 ppm	0.0006 ppm
Concentration per Run 3	0.0083 ppm	0.0017 ppm	0.0007 ppm	0.0006 ppm	0.0021 ppm	0.0003 ppm	0.0005 ppm
Recovery Percentage 1	1.877 %	4.126 %	5.036 %	8.010 %	7.552 %	1.107 %	11.682 %
Concentration RSD	10.3 %	21.3 %	42.8 %	42.1 %	158.9 %	216.0 %	8.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.9873 %	101.6988 %	101.7738 %	99.2341 %	99.9728 %	101.2634 %
Concentration per Run 1	102.1397 %	101.6801 %	101.2439 %	101.1194 %	99.6622 %	101.2288 %
Concentration per Run 2	98.1297 %	102.0669 %	101.3925 %	98.1027 %	99.3575 %	101.5502 %
Concentration per Run 3	99.6926 %	101.3494 %	102.6851 %	98.4803 %	100.8988 %	101.0113 %
Recovery Percentage 1						
Concentration RSD	2.0 %	0.4 %	0.8 %	1.7 %	0.8 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: L2339294-03 WG1802973
 Analysis started at: 8/2/2023 2:22:42 PM
 Rack: 1
 Vial: 46

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	168.5265 ppm	0.1533 ppm	0.0392 ppm	1.5147 ppm	0.0136 ppm	39.3559 ppm
Concentration per Run 1	0.0003 ppm	164.4689 ppm	0.1526 ppm	0.0386 ppm	1.4778 ppm	0.0132 ppm	38.3959 ppm
Concentration per Run 2	-0.0001 ppm	170.0737 ppm	0.1522 ppm	0.0396 ppm	1.5292 ppm	0.0137 ppm	39.7334 ppm
Concentration per Run 3	-0.0005 ppm	171.0368 ppm	0.1551 ppm	0.0394 ppm	1.5372 ppm	0.0139 ppm	39.9385 ppm
Concentration RSD	274.6 %	2.1 %	1.0 %	1.3 %	2.1 %	2.4 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0014 ppm	0.1635 ppm	0.2479 ppm	0.4927 ppm	325.7219 ppm	15.5946 ppm	35.2027 ppm
Concentration per Run 1	0.0015 ppm	0.1632 ppm	0.2483 ppm	0.4914 ppm	311.3449 ppm	15.2866 ppm	35.1893 ppm
Concentration per Run 2	0.0013 ppm	0.1638 ppm	0.2481 ppm	0.4944 ppm	331.2798 ppm	15.7032 ppm	35.2406 ppm
Concentration per Run 3	0.0013 ppm	0.1635 ppm	0.2472 ppm	0.4923 ppm	334.5410 ppm	15.7941 ppm	35.1781 ppm
Concentration RSD	9.3 %	0.2 %	0.2 %	0.3 %	3.9 %	1.7 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	18.0529 ppm	0.0239 ppm	0.4209 ppm	0.2764 ppm	0.5510 ppm	0.0217 ppm	0.0093 ppm
Concentration per Run 1	17.6142 ppm	0.0239 ppm	0.4025 ppm	0.2769 ppm	0.5501 ppm	0.0195 ppm	0.0079 ppm
Concentration per Run 2	18.2184 ppm	0.0243 ppm	0.4275 ppm	0.2759 ppm	0.5518 ppm	0.0231 ppm	0.0110 ppm
Concentration per Run 3	18.3261 ppm	0.0236 ppm	0.4328 ppm	0.2763 ppm	0.5511 ppm	0.0225 ppm	0.0090 ppm
Concentration RSD	2.1 %	1.5 %	3.8 %	0.2 %	0.1 %	9.0 %	16.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	35.6122 ppm	0.0091 ppm	0.5099 ppm	0.4619 ppm	0.0038 ppm	0.3633 ppm	2.5682 ppm
Concentration per Run 1	35.5402 ppm	0.0090 ppm	0.4969 ppm	0.4647 ppm	0.0047 ppm	0.3625 ppm	2.5674 ppm
Concentration per Run 2	35.6743 ppm	0.0092 ppm	0.5148 ppm	0.4610 ppm	0.0031 ppm	0.3637 ppm	2.5678 ppm
Concentration per Run 3	35.6222 ppm	0.0092 ppm	0.5180 ppm	0.4601 ppm	0.0036 ppm	0.3638 ppm	2.5694 ppm
Concentration RSD	0.2 %	1.2 %	2.2 %	0.5 %	20.8 %	0.2 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	156.1252 %	155.6422 %	153.3309 %	106.5246 %	100.4742 %	106.1830 %
Concentration per Run 1	157.3307 %	155.3138 %	153.0288 %	108.0634 %	100.3357 %	106.0136 %
Concentration per Run 2	155.9415 %	156.0912 %	154.0769 %	106.3313 %	100.7680 %	106.4314 %
Concentration per Run 3	155.1033 %	155.5216 %	152.8870 %	105.1791 %	100.3189 %	106.1041 %
Concentration RSD	0.7 %	0.3 %	0.4 %	1.4 %	0.3 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: L2339294-04 WG1802973
 Analysis started at: 8/2/2023 2:27:11 PM
 Rack: 1
 Vial: 47

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	119.3969 ppm	0.1253 ppm	0.0370 ppm	0.8603 ppm	0.0095 ppm	27.5935 ppm
Concentration per Run 1	-0.0001 ppm	114.5488 ppm	0.1250 ppm	0.0365 ppm	0.8264 ppm	0.0092 ppm	26.5349 ppm
Concentration per Run 2	0.0000 ppm	121.3572 ppm	0.1258 ppm	0.0374 ppm	0.8746 ppm	0.0096 ppm	28.0107 ppm
Concentration per Run 3	0.0004 ppm	122.2845 ppm	0.1250 ppm	0.0370 ppm	0.8800 ppm	0.0097 ppm	28.2348 ppm
Concentration RSD	184.2 %	3.5 %	0.4 %	1.2 %	3.4 %	2.8 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0007 ppm	0.1278 ppm	0.1926 ppm	0.2711 ppm	261.3795 ppm	12.6711 ppm	22.7840 ppm
Concentration per Run 1	0.0007 ppm	0.1276 ppm	0.1920 ppm	0.2715 ppm	250.8102 ppm	12.1831 ppm	22.7446 ppm
Concentration per Run 2	0.0007 ppm	0.1277 ppm	0.1941 ppm	0.2716 ppm	265.4464 ppm	12.9331 ppm	22.8799 ppm
Concentration per Run 3	0.0006 ppm	0.1281 ppm	0.1916 ppm	0.2703 ppm	267.8819 ppm	12.8971 ppm	22.7275 ppm
Concentration RSD	12.8 %	0.2 %	0.7 %	0.3 %	3.5 %	3.3 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	12.0238 ppm	0.0190 ppm	0.3959 ppm	0.1953 ppm	0.3938 ppm	0.0186 ppm	0.0099 ppm
Concentration per Run 1	11.5538 ppm	0.0191 ppm	0.3697 ppm	0.1958 ppm	0.3937 ppm	0.0220 ppm	0.0155 ppm
Concentration per Run 2	12.2130 ppm	0.0190 ppm	0.3932 ppm	0.1950 ppm	0.3947 ppm	0.0157 ppm	0.0064 ppm
Concentration per Run 3	12.3047 ppm	0.0189 ppm	0.4248 ppm	0.1951 ppm	0.3930 ppm	0.0182 ppm	0.0078 ppm
Concentration RSD	3.4 %	0.5 %	7.0 %	0.2 %	0.2 %	17.1 %	49.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	29.5182 ppm	0.0081 ppm	0.1453 ppm	0.4522 ppm	0.0057 ppm	0.2906 ppm	1.1420 ppm
Concentration per Run 1	29.4969 ppm	0.0090 ppm	0.1397 ppm	0.4503 ppm	0.0039 ppm	0.2909 ppm	1.1418 ppm
Concentration per Run 2	29.5224 ppm	0.0077 ppm	0.1476 ppm	0.4556 ppm	0.0062 ppm	0.2916 ppm	1.1425 ppm
Concentration per Run 3	29.5352 ppm	0.0075 ppm	0.1487 ppm	0.4506 ppm	0.0069 ppm	0.2894 ppm	1.1417 ppm
Concentration RSD	0.1 %	9.6 %	3.4 %	0.7 %	27.4 %	0.4 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	128.6698 %	125.6830 %	125.6253 %	107.5357 %	101.1024 %	105.1465 %
Concentration per Run 1	133.1048 %	125.2392 %	125.7229 %	112.1685 %	101.3322 %	104.9556 %
Concentration per Run 2	126.7749 %	125.1999 %	125.5514 %	105.6697 %	100.9319 %	104.6764 %
Concentration per Run 3	126.1296 %	126.6099 %	125.6015 %	104.7690 %	101.0432 %	105.8076 %
Concentration RSD	3.0 %	0.6 %	0.1 %	3.8 %	0.2 %	0.6 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: L2339399-01 WG1802973
 Analysis started at: 8/2/2023 2:31:34 PM
 Rack: 1
 Vial: 48

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.3676 ppm	0.0187 ppm	0.0919 ppm	0.0037 ppm	0.0001 ppm	8.4852 ppm
Concentration per Run 1	0.0004 ppm	0.3605 ppm	0.0196 ppm	0.0922 ppm	0.0035 ppm	0.0000 ppm	8.2569 ppm
Concentration per Run 2	0.0004 ppm	0.3716 ppm	0.0176 ppm	0.0913 ppm	0.0037 ppm	0.0002 ppm	8.5797 ppm
Concentration per Run 3	0.0003 ppm	0.3705 ppm	0.0189 ppm	0.0922 ppm	0.0039 ppm	0.0001 ppm	8.6190 ppm
Concentration RSD	19.2 %	1.7 %	5.4 %	0.6 %	5.2 %	99.1 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0045 ppm	0.0014 ppm	0.0017 ppm	0.0026 ppm	0.9446 ppm	36.2576 ppm	10.6931 ppm
Concentration per Run 1	0.0045 ppm	0.0014 ppm	0.0022 ppm	0.0026 ppm	0.9215 ppm	35.3540 ppm	10.6935 ppm
Concentration per Run 2	0.0045 ppm	0.0015 ppm	0.0020 ppm	0.0028 ppm	0.9434 ppm	36.7443 ppm	10.7087 ppm
Concentration per Run 3	0.0044 ppm	0.0013 ppm	0.0009 ppm	0.0024 ppm	0.9688 ppm	36.6746 ppm	10.6769 ppm
Concentration RSD	1.4 %	6.4 %	42.8 %	7.6 %	2.5 %	2.2 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0753 ppm	0.0007 ppm	411.0465 ppm	0.0050 ppm	0.0009 ppm	0.0002 ppm	0.0025 ppm
Concentration per Run 1	0.0735 ppm	0.0008 ppm	402.3270 ppm	0.0056 ppm	0.0013 ppm	0.0003 ppm	0.0008 ppm
Concentration per Run 2	0.0751 ppm	0.0006 ppm	420.2877 ppm	0.0050 ppm	0.0001 ppm	0.0027 ppm	0.0053 ppm
Concentration per Run 3	0.0772 ppm	0.0005 ppm	410.5247 ppm	0.0043 ppm	0.0011 ppm	-0.0023 ppm	0.0015 ppm
Concentration RSD	2.4 %	23.6 %	2.2 %	12.8 %	73.3 %	1,056.3 %	96.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.2573 ppm	0.0014 ppm	0.1225 ppm	0.0393 ppm	0.0015 ppm	0.0033 ppm	0.0207 ppm
Concentration per Run 1	1.2607 ppm	0.0013 ppm	0.1194 ppm	0.0392 ppm	0.0026 ppm	0.0032 ppm	0.0209 ppm
Concentration per Run 2	1.2555 ppm	0.0013 ppm	0.1238 ppm	0.0401 ppm	0.0008 ppm	0.0030 ppm	0.0206 ppm
Concentration per Run 3	1.2558 ppm	0.0015 ppm	0.1242 ppm	0.0388 ppm	0.0012 ppm	0.0037 ppm	0.0207 ppm
Concentration RSD	0.2 %	8.4 %	2.2 %	1.7 %	59.2 %	10.5 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.7333 %	99.9216 %	99.7187 %	102.7211 %	96.8991 %	101.5585 %
Concentration per Run 1	103.8666 %	100.1310 %	100.1047 %	104.7804 %	97.1558 %	101.7940 %
Concentration per Run 2	100.1664 %	99.9842 %	99.6725 %	101.2106 %	96.7850 %	101.5915 %
Concentration per Run 3	101.1670 %	99.6496 %	99.3787 %	102.1725 %	96.7564 %	101.2901 %
Concentration RSD	1.9 %	0.2 %	0.4 %	1.8 %	0.2 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: L2339399-04 WG1802973
 Analysis started at: 8/2/2023 2:36:10 PM
 Rack: 1
 Vial: 49

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.5383 ppm	0.0188 ppm	0.0737 ppm	0.0034 ppm	0.0000 ppm	5.9303 ppm
Concentration per Run 1	0.0000 ppm	0.5228 ppm	0.0172 ppm	0.0732 ppm	0.0034 ppm	-0.0001 ppm	5.7451 ppm
Concentration per Run 2	0.0008 ppm	0.5547 ppm	0.0221 ppm	0.0738 ppm	0.0034 ppm	0.0002 ppm	6.0981 ppm
Concentration per Run 3	-0.0006 ppm	0.5374 ppm	0.0173 ppm	0.0742 ppm	0.0034 ppm	0.0001 ppm	5.9477 ppm
Concentration RSD	932.4 %	3.0 %	14.8 %	0.6 %	1.2 %	325.0 %	3.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0035 ppm	0.0014 ppm	0.0023 ppm	0.0031 ppm	1.4007 ppm	34.9675 ppm	9.5711 ppm
Concentration per Run 1	0.0035 ppm	0.0015 ppm	0.0024 ppm	0.0032 ppm	1.3438 ppm	33.9239 ppm	9.5874 ppm
Concentration per Run 2	0.0036 ppm	0.0016 ppm	0.0027 ppm	0.0030 ppm	1.4486 ppm	35.8582 ppm	9.5634 ppm
Concentration per Run 3	0.0035 ppm	0.0013 ppm	0.0018 ppm	0.0030 ppm	1.4096 ppm	35.1203 ppm	9.5626 ppm
Concentration RSD	1.4 %	11.2 %	21.6 %	4.0 %	3.8 %	2.8 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0687 ppm	0.0004 ppm	388.1842 ppm	0.0043 ppm	0.0007 ppm	-0.0004 ppm	0.0012 ppm
Concentration per Run 1	0.0660 ppm	0.0005 ppm	382.0087 ppm	0.0040 ppm	0.0009 ppm	-0.0005 ppm	0.0005 ppm
Concentration per Run 2	0.0709 ppm	0.0004 ppm	393.8086 ppm	0.0045 ppm	0.0005 ppm	0.0003 ppm	0.0030 ppm
Concentration per Run 3	0.0693 ppm	0.0002 ppm	388.7353 ppm	0.0042 ppm	0.0006 ppm	-0.0011 ppm	0.0001 ppm
Concentration RSD	3.6 %	32.2 %	1.5 %	6.0 %	29.6 %	172.1 %	129.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.1660 ppm	0.0014 ppm	0.0970 ppm	0.0752 ppm	0.0024 ppm	0.0064 ppm	0.0177 ppm
Concentration per Run 1	1.1687 ppm	0.0013 ppm	0.0940 ppm	0.0761 ppm	0.0024 ppm	0.0067 ppm	0.0177 ppm
Concentration per Run 2	1.1669 ppm	0.0012 ppm	0.0999 ppm	0.0746 ppm	0.0016 ppm	0.0059 ppm	0.0177 ppm
Concentration per Run 3	1.1625 ppm	0.0016 ppm	0.0970 ppm	0.0749 ppm	0.0032 ppm	0.0064 ppm	0.0176 ppm
Concentration RSD	0.3 %	15.9 %	3.1 %	1.0 %	32.6 %	6.7 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.0952 %	99.9759 %	100.0887 %	101.0550 %	97.4096 %	101.6239 %
Concentration per Run 1	101.7665 %	100.4617 %	99.7581 %	103.1397 %	97.1973 %	101.9947 %
Concentration per Run 2	98.4776 %	99.5693 %	100.2670 %	99.4938 %	97.4000 %	101.3390 %
Concentration per Run 3	100.0416 %	99.8967 %	100.2410 %	100.5315 %	97.6314 %	101.5378 %
Concentration RSD	1.6 %	0.5 %	0.3 %	1.9 %	0.2 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: L2339399-05 WG1802973
 Analysis started at: 8/2/2023 2:40:43 PM
 Rack: 1
 Vial: 50

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.4014 ppm	0.0200 ppm	0.0742 ppm	0.0032 ppm	0.0001 ppm	6.3748 ppm
Concentration per Run 1	0.0006 ppm	0.3839 ppm	0.0213 ppm	0.0750 ppm	0.0033 ppm	-0.0001 ppm	6.1409 ppm
Concentration per Run 2	0.0004 ppm	0.4059 ppm	0.0199 ppm	0.0735 ppm	0.0030 ppm	0.0002 ppm	6.4190 ppm
Concentration per Run 3	0.0006 ppm	0.4143 ppm	0.0188 ppm	0.0740 ppm	0.0032 ppm	0.0001 ppm	6.5644 ppm
Concentration RSD	18.7 %	3.9 %	6.2 %	1.0 %	4.5 %	203.8 %	3.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0037 ppm	0.0012 ppm	0.0022 ppm	0.0031 ppm	0.7457 ppm	37.0845 ppm	10.0407 ppm
Concentration per Run 1	0.0037 ppm	0.0010 ppm	0.0025 ppm	0.0027 ppm	0.7176 ppm	35.6968 ppm	10.0450 ppm
Concentration per Run 2	0.0037 ppm	0.0014 ppm	0.0019 ppm	0.0032 ppm	0.7525 ppm	37.3643 ppm	10.0434 ppm
Concentration per Run 3	0.0038 ppm	0.0012 ppm	0.0023 ppm	0.0035 ppm	0.7669 ppm	38.1924 ppm	10.0337 ppm
Concentration RSD	1.1 %	18.4 %	14.5 %	13.2 %	3.4 %	3.4 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0597 ppm	0.0007 ppm	408.0149 ppm	0.0041 ppm	0.0005 ppm	-0.0006 ppm	-0.0011 ppm
Concentration per Run 1	0.0570 ppm	0.0008 ppm	389.3218 ppm	0.0045 ppm	0.0007 ppm	-0.0001 ppm	-0.0013 ppm
Concentration per Run 2	0.0601 ppm	0.0007 ppm	404.5297 ppm	0.0036 ppm	0.0002 ppm	-0.0006 ppm	-0.0032 ppm
Concentration per Run 3	0.0619 ppm	0.0005 ppm	430.1933 ppm	0.0042 ppm	0.0007 ppm	-0.0011 ppm	0.0010 ppm
Concentration RSD	4.2 %	21.6 %	5.1 %	10.3 %	56.1 %	80.8 %	184.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0413 ppm	0.0014 ppm	0.1005 ppm	0.0462 ppm	0.0015 ppm	0.0048 ppm	0.0220 ppm
Concentration per Run 1	1.0436 ppm	0.0015 ppm	0.0967 ppm	0.0465 ppm	0.0010 ppm	0.0048 ppm	0.0218 ppm
Concentration per Run 2	1.0375 ppm	0.0008 ppm	0.1013 ppm	0.0460 ppm	0.0027 ppm	0.0047 ppm	0.0219 ppm
Concentration per Run 3	1.0427 ppm	0.0018 ppm	0.1036 ppm	0.0460 ppm	0.0008 ppm	0.0049 ppm	0.0221 ppm
Concentration RSD	0.3 %	38.6 %	3.5 %	0.6 %	70.8 %	1.9 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.9433 %	98.8292 %	98.6426 %	101.6582 %	96.2711 %	100.7816 %
Concentration per Run 1	102.7824 %	98.7368 %	98.9596 %	104.6390 %	96.5852 %	100.6291 %
Concentration per Run 2	100.0103 %	98.7511 %	98.5360 %	101.6762 %	96.1910 %	100.6695 %
Concentration per Run 3	97.0371 %	98.9998 %	98.4323 %	98.6595 %	96.0371 %	101.0463 %
Concentration RSD	2.9 %	0.1 %	0.3 %	2.9 %	0.3 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: L2339399-07 WG1802973
 Analysis started at: 8/2/2023 2:45:15 PM
 Rack: 1
 Vial: 51

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0010 ppm	0.2746 ppm	0.0182 ppm	0.0777 ppm	0.0028 ppm	0.0001 ppm	6.7120 ppm
Concentration per Run 1	0.0012 ppm	0.2560 ppm	0.0173 ppm	0.0781 ppm	0.0030 ppm	0.0003 ppm	6.5833 ppm
Concentration per Run 2	0.0009 ppm	0.2897 ppm	0.0198 ppm	0.0777 ppm	0.0027 ppm	0.0001 ppm	6.7949 ppm
Concentration per Run 3	0.0010 ppm	0.2781 ppm	0.0174 ppm	0.0772 ppm	0.0028 ppm	-0.0001 ppm	6.7578 ppm
Concentration RSD	15.3 %	6.2 %	7.8 %	0.6 %	5.9 %	298.4 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0035 ppm	0.0010 ppm	0.0024 ppm	0.0023 ppm	0.5516 ppm	33.7746 ppm	9.8616 ppm
Concentration per Run 1	0.0036 ppm	0.0011 ppm	0.0027 ppm	0.0020 ppm	0.5399 ppm	33.1035 ppm	9.8411 ppm
Concentration per Run 2	0.0035 ppm	0.0012 ppm	0.0026 ppm	0.0020 ppm	0.5595 ppm	34.1897 ppm	9.8644 ppm
Concentration per Run 3	0.0036 ppm	0.0007 ppm	0.0020 ppm	0.0029 ppm	0.5553 ppm	34.0307 ppm	9.8792 ppm
Concentration RSD	1.0 %	27.9 %	14.7 %	23.9 %	1.9 %	1.7 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0739 ppm	0.0005 ppm	395.8087 ppm	0.0038 ppm	-0.0006 ppm	-0.0012 ppm	0.0005 ppm
Concentration per Run 1	0.0728 ppm	0.0001 ppm	386.7752 ppm	0.0030 ppm	-0.0012 ppm	-0.0003 ppm	0.0017 ppm
Concentration per Run 2	0.0739 ppm	0.0005 ppm	402.1728 ppm	0.0041 ppm	-0.0005 ppm	-0.0034 ppm	0.0018 ppm
Concentration per Run 3	0.0750 ppm	0.0007 ppm	398.4782 ppm	0.0044 ppm	-0.0001 ppm	0.0001 ppm	-0.0021 ppm
Concentration RSD	1.5 %	65.5 %	2.0 %	19.3 %	91.7 %	161.9 %	479.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9563 ppm	0.0009 ppm	0.1074 ppm	0.0177 ppm	0.0013 ppm	0.0044 ppm	0.0218 ppm
Concentration per Run 1	0.9593 ppm	0.0009 ppm	0.1050 ppm	0.0171 ppm	0.0022 ppm	0.0044 ppm	0.0219 ppm
Concentration per Run 2	0.9545 ppm	0.0011 ppm	0.1087 ppm	0.0176 ppm	0.0011 ppm	0.0047 ppm	0.0217 ppm
Concentration per Run 3	0.9550 ppm	0.0007 ppm	0.1085 ppm	0.0184 ppm	0.0005 ppm	0.0040 ppm	0.0218 ppm
Concentration RSD	0.3 %	20.5 %	1.9 %	3.7 %	68.2 %	8.8 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.8188 %	99.9681 %	99.6447 %	102.9897 %	97.1724 %	102.1163 %
Concentration per Run 1	104.0863 %	100.0544 %	98.9581 %	105.2089 %	96.5872 %	102.1922 %
Concentration per Run 2	101.1433 %	100.0401 %	100.1443 %	102.0248 %	97.3489 %	102.2269 %
Concentration per Run 3	100.2269 %	99.8098 %	99.8316 %	101.7353 %	97.5811 %	101.9298 %
Concentration RSD	2.0 %	0.1 %	0.6 %	1.9 %	0.5 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339399-08 WG1802973
 Analysis started at: 8/2/2023 2:49:49 PM
 Rack: 1
 Vial: 52

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0007 ppm	0.2857 ppm	0.0190 ppm	0.0898 ppm	0.0031 ppm	0.0000 ppm	8.2350 ppm
Concentration per Run 1	0.0003 ppm	0.2995 ppm	0.0180 ppm	0.0893 ppm	0.0030 ppm	0.0000 ppm	8.1750 ppm
Concentration per Run 2	0.0009 ppm	0.2699 ppm	0.0211 ppm	0.0903 ppm	0.0033 ppm	-0.0001 ppm	8.2796 ppm
Concentration per Run 3	0.0009 ppm	0.2876 ppm	0.0179 ppm	0.0897 ppm	0.0030 ppm	0.0001 ppm	8.2505 ppm
Concentration RSD	46.0 %	5.2 %	9.4 %	0.6 %	6.8 %	752.6 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0027 ppm	0.0008 ppm	0.0016 ppm	0.0020 ppm	0.5409 ppm	37.6447 ppm	10.1685 ppm
Concentration per Run 1	0.0028 ppm	0.0007 ppm	0.0016 ppm	0.0018 ppm	0.5340 ppm	37.2917 ppm	10.1618 ppm
Concentration per Run 2	0.0027 ppm	0.0008 ppm	0.0014 ppm	0.0020 ppm	0.5469 ppm	37.8251 ppm	10.1573 ppm
Concentration per Run 3	0.0027 ppm	0.0009 ppm	0.0017 ppm	0.0024 ppm	0.5417 ppm	37.8174 ppm	10.1863 ppm
Concentration RSD	3.0 %	12.7 %	9.7 %	15.6 %	1.2 %	0.8 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0608 ppm	0.0004 ppm	423.6580 ppm	0.0037 ppm	0.0008 ppm	0.0005 ppm	0.0043 ppm
Concentration per Run 1	0.0601 ppm	0.0003 ppm	418.5210 ppm	0.0036 ppm	0.0004 ppm	-0.0001 ppm	0.0029 ppm
Concentration per Run 2	0.0603 ppm	0.0005 ppm	423.5544 ppm	0.0042 ppm	0.0018 ppm	0.0029 ppm	0.0040 ppm
Concentration per Run 3	0.0621 ppm	0.0005 ppm	428.8986 ppm	0.0033 ppm	0.0003 ppm	-0.0012 ppm	0.0060 ppm
Concentration RSD	1.8 %	20.1 %	1.2 %	12.3 %	96.4 %	395.2 %	37.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0341 ppm	0.0016 ppm	0.1146 ppm	0.0163 ppm	0.0018 ppm	0.0035 ppm	0.0253 ppm
Concentration per Run 1	1.0334 ppm	0.0020 ppm	0.1141 ppm	0.0170 ppm	0.0032 ppm	0.0038 ppm	0.0254 ppm
Concentration per Run 2	1.0345 ppm	0.0012 ppm	0.1149 ppm	0.0156 ppm	0.0008 ppm	0.0031 ppm	0.0251 ppm
Concentration per Run 3	1.0343 ppm	0.0018 ppm	0.1148 ppm	0.0164 ppm	0.0013 ppm	0.0036 ppm	0.0253 ppm
Concentration RSD	0.1 %	23.5 %	0.4 %	4.4 %	71.6 %	9.4 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.0762 %	99.4555 %	99.6994 %	100.3835 %	96.5178 %	101.4260 %
Concentration per Run 1	99.5575 %	99.6713 %	99.4264 %	100.8750 %	96.3070 %	101.6187 %
Concentration per Run 2	98.8512 %	99.3312 %	99.9560 %	100.0293 %	96.7166 %	101.2711 %
Concentration per Run 3	98.8197 %	99.3642 %	99.7159 %	100.2463 %	96.5299 %	101.3881 %
Concentration RSD	0.4 %	0.2 %	0.3 %	0.4 %	0.2 %	0.2 %

ICP DataTrace 6

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LabBook: WG1810702_08022023t6.imexp

Sample: I2339399-13 WG1802973
 Analysis started at: 8/2/2023 2:54:21 PM
 Rack: 1
 Vial: 53

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.3254 ppm	0.0192 ppm	0.0912 ppm	0.0032 ppm	0.0000 ppm	7.3907 ppm
Concentration per Run 1	0.0007 ppm	0.3219 ppm	0.0199 ppm	0.0910 ppm	0.0033 ppm	-0.0001 ppm	7.2270 ppm
Concentration per Run 2	0.0003 ppm	0.3267 ppm	0.0172 ppm	0.0925 ppm	0.0032 ppm	0.0000 ppm	7.5067 ppm
Concentration per Run 3	0.0007 ppm	0.3276 ppm	0.0204 ppm	0.0902 ppm	0.0032 ppm	0.0001 ppm	7.4384 ppm
Concentration RSD	42.8 %	0.9 %	8.9 %	1.3 %	0.6 %	1,396.3 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0027 ppm	0.0009 ppm	0.0016 ppm	0.0025 ppm	0.5536 ppm	37.6007 ppm	10.2045 ppm
Concentration per Run 1	0.0027 ppm	0.0010 ppm	0.0015 ppm	0.0030 ppm	0.5432 ppm	36.9077 ppm	10.2066 ppm
Concentration per Run 2	0.0028 ppm	0.0009 ppm	0.0011 ppm	0.0019 ppm	0.5591 ppm	38.0742 ppm	10.1965 ppm
Concentration per Run 3	0.0027 ppm	0.0007 ppm	0.0022 ppm	0.0026 ppm	0.5586 ppm	37.8202 ppm	10.2102 ppm
Concentration RSD	0.8 %	17.3 %	36.4 %	21.9 %	1.6 %	1.6 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0597 ppm	0.0004 ppm	429.5388 ppm	0.0037 ppm	0.0009 ppm	-0.0024 ppm	0.0005 ppm
Concentration per Run 1	0.0590 ppm	0.0004 ppm	418.1526 ppm	0.0036 ppm	0.0002 ppm	-0.0014 ppm	-0.0003 ppm
Concentration per Run 2	0.0600 ppm	0.0003 ppm	437.1761 ppm	0.0035 ppm	0.0013 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 3	0.0601 ppm	0.0005 ppm	433.2876 ppm	0.0040 ppm	0.0012 ppm	-0.0046 ppm	0.0017 ppm
Concentration RSD	1.1 %	25.1 %	2.3 %	7.2 %	67.9 %	79.8 %	224.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0758 ppm	0.0012 ppm	0.1118 ppm	0.0177 ppm	0.0011 ppm	0.0033 ppm	0.0237 ppm
Concentration per Run 1	1.0793 ppm	0.0015 ppm	0.1094 ppm	0.0178 ppm	0.0000 ppm	0.0031 ppm	0.0237 ppm
Concentration per Run 2	1.0788 ppm	0.0012 ppm	0.1134 ppm	0.0175 ppm	0.0012 ppm	0.0035 ppm	0.0237 ppm
Concentration per Run 3	1.0694 ppm	0.0009 ppm	0.1126 ppm	0.0176 ppm	0.0023 ppm	0.0034 ppm	0.0237 ppm
Concentration RSD	0.5 %	26.2 %	1.9 %	1.0 %	102.0 %	6.7 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.8501 %	99.7941 %	100.4134 %	101.4844 %	97.1715 %	101.9069 %
Concentration per Run 1	101.6706 %	100.0249 %	100.1006 %	103.1100 %	96.9601 %	102.1945 %
Concentration per Run 2	99.3305 %	99.7134 %	100.2384 %	100.7928 %	96.8616 %	101.8742 %
Concentration per Run 3	98.5491 %	99.6439 %	100.9012 %	100.5502 %	97.6928 %	101.6518 %
Concentration RSD	1.6 %	0.2 %	0.4 %	1.4 %	0.5 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339399-16 WG1802973
 Analysis started at: 8/2/2023 2:58:54 PM
 Rack: 1
 Vial: 54

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.4005 ppm	0.0183 ppm	0.1037 ppm	0.0031 ppm	0.0003 ppm	6.8189 ppm
Concentration per Run 1	0.0006 ppm	0.4039 ppm	0.0180 ppm	0.1039 ppm	0.0026 ppm	0.0003 ppm	6.6383 ppm
Concentration per Run 2	0.0000 ppm	0.3942 ppm	0.0194 ppm	0.1039 ppm	0.0033 ppm	0.0002 ppm	6.9197 ppm
Concentration per Run 3	0.0005 ppm	0.4034 ppm	0.0175 ppm	0.1034 ppm	0.0034 ppm	0.0003 ppm	6.8986 ppm
Concentration RSD	97.1 %	1.4 %	5.3 %	0.3 %	13.2 %	28.4 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0037 ppm	0.0013 ppm	0.0021 ppm	0.0021 ppm	1.0242 ppm	39.0030 ppm	10.8095 ppm
Concentration per Run 1	0.0037 ppm	0.0013 ppm	0.0017 ppm	0.0020 ppm	0.9909 ppm	38.1505 ppm	10.8069 ppm
Concentration per Run 2	0.0037 ppm	0.0015 ppm	0.0022 ppm	0.0020 ppm	1.0394 ppm	39.3799 ppm	10.8099 ppm
Concentration per Run 3	0.0037 ppm	0.0012 ppm	0.0025 ppm	0.0022 ppm	1.0425 ppm	39.4787 ppm	10.8117 ppm
Concentration RSD	0.6 %	9.3 %	17.9 %	5.2 %	2.8 %	1.9 %	0.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0701 ppm	0.0003 ppm	430.9243 ppm	0.0046 ppm	0.0007 ppm	0.0006 ppm	0.0011 ppm
Concentration per Run 1	0.0681 ppm	0.0003 ppm	422.9931 ppm	0.0046 ppm	0.0008 ppm	0.0006 ppm	0.0012 ppm
Concentration per Run 2	0.0715 ppm	0.0004 ppm	436.7173 ppm	0.0043 ppm	0.0004 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 3	0.0708 ppm	0.0002 ppm	433.0623 ppm	0.0048 ppm	0.0008 ppm	0.0010 ppm	0.0014 ppm
Concentration RSD	2.6 %	44.3 %	1.6 %	5.9 %	36.6 %	69.1 %	46.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.1212 ppm	0.0010 ppm	0.1114 ppm	0.0378 ppm	0.0027 ppm	0.0078 ppm	0.0147 ppm
Concentration per Run 1	1.1210 ppm	0.0013 ppm	0.1086 ppm	0.0380 ppm	0.0024 ppm	0.0082 ppm	0.0147 ppm
Concentration per Run 2	1.1200 ppm	0.0006 ppm	0.1127 ppm	0.0373 ppm	0.0025 ppm	0.0076 ppm	0.0146 ppm
Concentration per Run 3	1.1226 ppm	0.0010 ppm	0.1127 ppm	0.0380 ppm	0.0031 ppm	0.0076 ppm	0.0148 ppm
Concentration RSD	0.1 %	32.4 %	2.1 %	1.2 %	14.9 %	4.4 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.7177 %	99.2101 %	99.2018 %	102.1055 %	96.0796 %	101.2634 %
Concentration per Run 1	102.8796 %	99.4802 %	99.2262 %	104.4548 %	96.0672 %	101.5852 %
Concentration per Run 2	99.7178 %	99.1241 %	99.3501 %	100.8872 %	96.3755 %	101.0038 %
Concentration per Run 3	99.5557 %	99.0261 %	99.0290 %	100.9744 %	95.7962 %	101.2012 %
Concentration RSD	1.9 %	0.2 %	0.2 %	2.0 %	0.3 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339399-19 WG1802973
Analysis started at: 8/2/2023 3:03:28 PM
Rack: 1
Vial: 55

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.7897 ppm	0.0209 ppm	0.0997 ppm	0.0038 ppm	0.0000 ppm	7.4262 ppm
Concentration per Run 1	0.0003 ppm	0.7724 ppm	0.0204 ppm	0.0994 ppm	0.0038 ppm	0.0000 ppm	7.3594 ppm
Concentration per Run 2	0.0002 ppm	0.8233 ppm	0.0229 ppm	0.1002 ppm	0.0039 ppm	0.0001 ppm	7.6177 ppm
Concentration per Run 3	0.0010 ppm	0.7735 ppm	0.0193 ppm	0.0996 ppm	0.0037 ppm	0.0000 ppm	7.3014 ppm
Concentration RSD	89.6 %	3.7 %	8.7 %	0.4 %	2.9 %	328.7 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0047 ppm	0.0015 ppm	0.0024 ppm	0.0029 ppm	0.9783 ppm	40.1992 ppm	11.8108 ppm
Concentration per Run 1	0.0046 ppm	0.0014 ppm	0.0023 ppm	0.0031 ppm	0.9714 ppm	39.8063 ppm	11.8211 ppm
Concentration per Run 2	0.0047 ppm	0.0016 ppm	0.0031 ppm	0.0029 ppm	1.0018 ppm	41.1776 ppm	11.8121 ppm
Concentration per Run 3	0.0047 ppm	0.0015 ppm	0.0019 ppm	0.0028 ppm	0.9617 ppm	39.6138 ppm	11.7992 ppm
Concentration RSD	0.7 %	5.2 %	25.7 %	6.6 %	2.1 %	2.1 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1061 ppm	0.0002 ppm	425.2586 ppm	0.0042 ppm	0.0000 ppm	-0.0007 ppm	0.0033 ppm
Concentration per Run 1	0.1050 ppm	0.0002 ppm	414.4621 ppm	0.0036 ppm	0.0009 ppm	-0.0009 ppm	0.0046 ppm
Concentration per Run 2	0.1093 ppm	0.0000 ppm	438.6081 ppm	0.0043 ppm	0.0002 ppm	0.0003 ppm	0.0020 ppm
Concentration per Run 3	0.1039 ppm	0.0005 ppm	422.7057 ppm	0.0046 ppm	-0.0010 ppm	-0.0015 ppm	0.0032 ppm
Concentration RSD	2.7 %	86.4 %	2.9 %	12.7 %	13,015.3 %	125.0 %	39.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.3710 ppm	0.0003 ppm	0.1211 ppm	0.0511 ppm	0.0021 ppm	0.0046 ppm	0.0199 ppm
Concentration per Run 1	1.3769 ppm	0.0000 ppm	0.1200 ppm	0.0505 ppm	0.0026 ppm	0.0047 ppm	0.0199 ppm
Concentration per Run 2	1.3710 ppm	0.0010 ppm	0.1240 ppm	0.0511 ppm	0.0016 ppm	0.0048 ppm	0.0197 ppm
Concentration per Run 3	1.3650 ppm	-0.0001 ppm	0.1192 ppm	0.0518 ppm	0.0020 ppm	0.0043 ppm	0.0199 ppm
Concentration RSD	0.4 %	226.2 %	2.1 %	1.3 %	25.9 %	6.1 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.3971 %	98.6453 %	99.4462 %	103.1372 %	96.4760 %	100.7681 %
Concentration per Run 1	102.3827 %	98.8819 %	99.2318 %	104.4234 %	95.8202 %	100.4874 %
Concentration per Run 2	99.1989 %	98.3435 %	99.5136 %	100.5544 %	96.8105 %	100.4473 %
Concentration per Run 3	102.6097 %	98.7106 %	99.5931 %	104.4338 %	96.7972 %	101.3697 %
Concentration RSD	1.9 %	0.3 %	0.2 %	2.2 %	0.6 %	0.5 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCV
 Analysis started at: 8/2/2023 3:08:02 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4975 ppm	0.5145 ppm	0.5223 ppm	0.4901 ppm	0.4803 ppm	0.5097 ppm	0.5052 ppm
Concentration per Run 1	0.4964 ppm	0.4973 ppm	0.5174 ppm	0.4888 ppm	0.4583 ppm	0.4869 ppm	0.4837 ppm
Concentration per Run 2	0.4978 ppm	0.5226 ppm	0.5225 ppm	0.4897 ppm	0.4892 ppm	0.5192 ppm	0.5123 ppm
Concentration per Run 3	0.4983 ppm	0.5236 ppm	0.5270 ppm	0.4918 ppm	0.4936 ppm	0.5229 ppm	0.5196 ppm
Recovery Percentage 1	99.492 %	102.899 %	104.460 %	98.022 %	96.066 %	101.934 %	101.041 %
Concentration RSD	0.2 %	2.9 %	0.9 %	0.3 %	4.0 %	3.9 %	3.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4755 ppm	0.4971 ppm	0.5185 ppm	0.5023 ppm	0.4930 ppm	5.1784 ppm	0.5045 ppm
Concentration per Run 1	0.4747 ppm	0.4970 ppm	0.5170 ppm	0.5011 ppm	0.4724 ppm	4.9455 ppm	0.5058 ppm
Concentration per Run 2	0.4748 ppm	0.4956 ppm	0.5184 ppm	0.5018 ppm	0.4996 ppm	5.2889 ppm	0.5003 ppm
Concentration per Run 3	0.4770 ppm	0.4986 ppm	0.5200 ppm	0.5041 ppm	0.5070 ppm	5.3009 ppm	0.5073 ppm
Recovery Percentage 1	95.095 %	99.416 %	103.696 %	100.463 %	98.596 %	103.568 %	100.893 %
Concentration RSD	0.3 %	0.3 %	0.3 %	0.3 %	3.7 %	3.9 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5116 ppm	0.4879 ppm	10.1613 ppm	0.4868 ppm	0.5047 ppm	0.4890 ppm	0.5045 ppm
Concentration per Run 1	0.4885 ppm	0.4866 ppm	9.7076 ppm	0.4874 ppm	0.5046 ppm	0.4871 ppm	0.5057 ppm
Concentration per Run 2	0.5198 ppm	0.4870 ppm	10.3676 ppm	0.4856 ppm	0.5045 ppm	0.4903 ppm	0.5045 ppm
Concentration per Run 3	0.5265 ppm	0.4900 ppm	10.4089 ppm	0.4873 ppm	0.5048 ppm	0.4896 ppm	0.5032 ppm
Recovery Percentage 1	102.317 %	97.575 %	101.613 %	97.356 %	100.930 %	97.806 %	100.897 %
Concentration RSD	4.0 %	0.4 %	3.9 %	0.2 %	0.0 %	0.4 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1800 ppm	0.5067 ppm	0.4792 ppm	0.4785 ppm	0.5206 ppm	0.5009 ppm	0.4958 ppm
Concentration per Run 1	5.1759 ppm	0.5056 ppm	0.4559 ppm	0.4776 ppm	0.5229 ppm	0.4996 ppm	0.4958 ppm
Concentration per Run 2	5.1737 ppm	0.5061 ppm	0.4890 ppm	0.4788 ppm	0.5168 ppm	0.5006 ppm	0.4948 ppm
Concentration per Run 3	5.1903 ppm	0.5083 ppm	0.4926 ppm	0.4792 ppm	0.5220 ppm	0.5024 ppm	0.4969 ppm
Recovery Percentage 1	103.599 %	101.331 %	95.835 %	95.707 %	104.111 %	100.177 %	99.167 %
Concentration RSD	0.2 %	0.3 %	4.2 %	0.2 %	0.6 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.8984 %	100.8794 %	100.5951 %	100.4137 %	100.1127 %	102.4509 %
Concentration per Run 1	103.6553 %	101.4289 %	100.7070 %	105.0916 %	100.3431 %	103.0032 %
Concentration per Run 2	96.3232 %	100.2463 %	100.5336 %	98.1116 %	100.1959 %	101.8243 %
Concentration per Run 3	96.7166 %	100.9630 %	100.5446 %	98.0379 %	99.7992 %	102.5253 %
Recovery Percentage 1						
Concentration RSD	4.2 %	0.6 %	0.1 %	4.0 %	0.3 %	0.6 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCB
 Analysis started at: 8/2/2023 3:12:23 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	-0.0167 ppm	0.0019 ppm	0.0017 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	0.0007 ppm	-0.0174 ppm	0.0001 ppm	0.0017 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 2	0.0004 ppm	-0.0170 ppm	0.0023 ppm	0.0017 ppm	0.0005 ppm	0.0000 ppm	0.0025 ppm
Concentration per Run 3	0.0005 ppm	-0.0157 ppm	0.0034 ppm	0.0016 ppm	0.0008 ppm	0.0000 ppm	-0.0031 ppm
Recovery Percentage 1	7.375 %	-16.678 %	38.964 %	5.606 %	4.094 %	0.836 %	-0.096 %
Concentration RSD	31.1 %	5.3 %	86.3 %	6.4 %	107.3 %	33.7 %	2,901.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0003 ppm	0.0001 ppm	-0.0007 ppm	0.0045 ppm	0.0203 ppm	0.0022 ppm
Concentration per Run 1	0.0002 ppm	0.0003 ppm	0.0002 ppm	-0.0007 ppm	0.0051 ppm	-0.0196 ppm	0.0026 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0005 ppm	-0.0006 ppm	0.0036 ppm	0.0407 ppm	-0.0009 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	-0.0005 ppm	-0.0008 ppm	0.0049 ppm	0.0397 ppm	0.0048 ppm
Recovery Percentage 1	4.802 %	1.480 %	0.726 %	-7.002 %	9.065 %	0.810 %	2.178 %
Concentration RSD	30.6 %	18.4 %	708.0 %	9.0 %	18.0 %	170.5 %	132.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0010 ppm	0.0950 ppm	0.0005 ppm	-0.0002 ppm	0.0019 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0013 ppm	0.1046 ppm	0.0005 ppm	0.0000 ppm	0.0033 ppm	0.0031 ppm
Concentration per Run 2	-0.0003 ppm	0.0010 ppm	0.0832 ppm	0.0006 ppm	0.0005 ppm	0.0014 ppm	-0.0004 ppm
Concentration per Run 3	0.0010 ppm	0.0007 ppm	0.0974 ppm	0.0002 ppm	-0.0012 ppm	0.0010 ppm	-0.0022 ppm
Recovery Percentage 1	2.445 %	2.040 %	4.752 %	1.873 %	-2.317 %	3.763 %	1.655 %
Concentration RSD	287.2 %	27.5 %	11.5 %	48.3 %	358.1 %	66.2 %	1,616.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0064 ppm	0.0023 ppm	0.0003 ppm	0.0010 ppm	0.0004 ppm	-0.0003 ppm	0.0004 ppm
Concentration per Run 1	0.0067 ppm	0.0025 ppm	0.0002 ppm	0.0006 ppm	0.0015 ppm	-0.0006 ppm	0.0005 ppm
Concentration per Run 2	0.0070 ppm	0.0021 ppm	0.0005 ppm	0.0009 ppm	0.0005 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0055 ppm	0.0023 ppm	0.0003 ppm	0.0013 ppm	-0.0007 ppm	0.0001 ppm	0.0004 ppm
Recovery Percentage 1	1.281 %	4.618 %	3.220 %	9.521 %	2.153 %	-3.318 %	8.837 %
Concentration RSD	13.0 %	9.5 %	40.2 %	37.3 %	263.6 %	103.2 %	21.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.2535 %	102.2216 %	102.0437 %	99.9566 %	99.6316 %	102.1483 %
Concentration per Run 1	103.5267 %	102.1506 %	102.0826 %	103.0224 %	99.6120 %	101.9636 %
Concentration per Run 2	98.2189 %	102.6468 %	101.8414 %	98.1286 %	99.3674 %	102.5606 %
Concentration per Run 3	99.0150 %	101.8674 %	102.2073 %	98.7188 %	99.9152 %	101.9206 %
Recovery Percentage 1						
Concentration RSD	2.9 %	0.4 %	0.2 %	2.7 %	0.3 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339399-20 WG1802973
 Analysis started at: 8/2/2023 3:17:51 PM
 Rack: 1
 Vial: 56

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0011 ppm	0.2573 ppm	0.0231 ppm	0.1013 ppm	0.0027 ppm	0.0000 ppm	7.6348 ppm
Concentration per Run 1	0.0012 ppm	0.2478 ppm	0.0218 ppm	0.1018 ppm	0.0029 ppm	0.0002 ppm	7.4976 ppm
Concentration per Run 2	0.0013 ppm	0.2535 ppm	0.0240 ppm	0.1007 ppm	0.0026 ppm	0.0000 ppm	7.6859 ppm
Concentration per Run 3	0.0010 ppm	0.2707 ppm	0.0234 ppm	0.1012 ppm	0.0025 ppm	-0.0001 ppm	7.7211 ppm
Concentration RSD	12.7 %	4.6 %	4.9 %	0.5 %	7.0 %	344.0 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0042 ppm	0.0015 ppm	0.0018 ppm	0.0032 ppm	0.5362 ppm	40.8127 ppm	11.5243 ppm
Concentration per Run 1	0.0042 ppm	0.0016 ppm	0.0017 ppm	0.0032 ppm	0.5228 ppm	40.1927 ppm	11.5393 ppm
Concentration per Run 2	0.0042 ppm	0.0015 ppm	0.0017 ppm	0.0030 ppm	0.5428 ppm	40.9051 ppm	11.5283 ppm
Concentration per Run 3	0.0042 ppm	0.0014 ppm	0.0020 ppm	0.0034 ppm	0.5429 ppm	41.3402 ppm	11.5054 ppm
Concentration RSD	0.4 %	6.0 %	10.3 %	7.4 %	2.2 %	1.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1282 ppm	0.0004 ppm	412.5062 ppm	0.0040 ppm	0.0014 ppm	-0.0007 ppm	0.0028 ppm
Concentration per Run 1	0.1265 ppm	0.0004 ppm	400.8364 ppm	0.0031 ppm	0.0025 ppm	-0.0012 ppm	0.0052 ppm
Concentration per Run 2	0.1289 ppm	0.0005 ppm	418.6597 ppm	0.0045 ppm	0.0007 ppm	-0.0011 ppm	0.0011 ppm
Concentration per Run 3	0.1291 ppm	0.0004 ppm	418.0226 ppm	0.0043 ppm	0.0010 ppm	0.0001 ppm	0.0022 ppm
Concentration RSD	1.1 %	22.3 %	2.5 %	18.9 %	70.3 %	101.9 %	75.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9498 ppm	0.0020 ppm	0.1245 ppm	0.0148 ppm	0.0030 ppm	0.0045 ppm	0.0293 ppm
Concentration per Run 1	0.9518 ppm	0.0018 ppm	0.1223 ppm	0.0150 ppm	0.0034 ppm	0.0043 ppm	0.0293 ppm
Concentration per Run 2	0.9482 ppm	0.0025 ppm	0.1255 ppm	0.0144 ppm	0.0013 ppm	0.0045 ppm	0.0293 ppm
Concentration per Run 3	0.9496 ppm	0.0016 ppm	0.1258 ppm	0.0149 ppm	0.0044 ppm	0.0047 ppm	0.0294 ppm
Concentration RSD	0.2 %	23.6 %	1.5 %	2.2 %	50.8 %	4.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.3558 %	98.6610 %	99.2967 %	101.5628 %	96.3778 %	101.3614 %
Concentration per Run 1	100.9021 %	98.3936 %	99.2635 %	102.8552 %	96.3630 %	101.2382 %
Concentration per Run 2	99.2505 %	98.6743 %	99.1240 %	101.4257 %	96.3985 %	101.1449 %
Concentration per Run 3	97.9149 %	98.9152 %	99.5026 %	100.4076 %	96.3718 %	101.7011 %
Concentration RSD	1.5 %	0.3 %	0.2 %	1.2 %	0.0 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339399-25 WG1802973
 Analysis started at: 8/2/2023 3:22:24 PM
 Rack: 1
 Vial: 57

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.5571 ppm	0.0206 ppm	0.0920 ppm	0.0044 ppm	0.0001 ppm	6.4898 ppm
Concentration per Run 1	0.0003 ppm	0.5349 ppm	0.0193 ppm	0.0923 ppm	0.0042 ppm	0.0001 ppm	6.2761 ppm
Concentration per Run 2	0.0006 ppm	0.5701 ppm	0.0222 ppm	0.0923 ppm	0.0046 ppm	-0.0001 ppm	6.5882 ppm
Concentration per Run 3	0.0006 ppm	0.5664 ppm	0.0204 ppm	0.0915 ppm	0.0044 ppm	0.0002 ppm	6.6051 ppm
Concentration RSD	39.3 %	3.5 %	7.0 %	0.5 %	5.4 %	300.2 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0036 ppm	0.0012 ppm	0.0022 ppm	0.0030 ppm	0.8727 ppm	107.6452 ppm	10.1791 ppm
Concentration per Run 1	0.0036 ppm	0.0011 ppm	0.0018 ppm	0.0026 ppm	0.8410 ppm	103.8445 ppm	9.8928 ppm
Concentration per Run 2	0.0036 ppm	0.0012 ppm	0.0025 ppm	0.0034 ppm	0.8859 ppm	109.4908 ppm	10.5544 ppm
Concentration per Run 3	0.0036 ppm	0.0013 ppm	0.0023 ppm	0.0028 ppm	0.8911 ppm	109.6003 ppm	10.0901 ppm
Concentration RSD	0.8 %	8.3 %	16.1 %	14.1 %	3.2 %	3.1 %	3.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0776 ppm	0.0004 ppm	228.3279 ppm	0.0037 ppm	0.0014 ppm	-0.0009 ppm	0.0016 ppm
Concentration per Run 1	0.0741 ppm	0.0005 ppm	220.1461 ppm	0.0037 ppm	0.0018 ppm	-0.0016 ppm	0.0019 ppm
Concentration per Run 2	0.0789 ppm	0.0002 ppm	232.0158 ppm	0.0038 ppm	0.0011 ppm	-0.0019 ppm	0.0006 ppm
Concentration per Run 3	0.0797 ppm	0.0003 ppm	232.8218 ppm	0.0036 ppm	0.0014 ppm	0.0008 ppm	0.0023 ppm
Concentration RSD	3.9 %	40.4 %	3.1 %	3.3 %	23.7 %	163.2 %	55.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.7112 ppm	0.0008 ppm	0.1039 ppm	0.0292 ppm	0.0015 ppm	0.0042 ppm	0.0248 ppm
Concentration per Run 1	1.7060 ppm	0.0005 ppm	0.1001 ppm	0.0282 ppm	0.0007 ppm	0.0045 ppm	0.0248 ppm
Concentration per Run 2	1.7154 ppm	0.0011 ppm	0.1056 ppm	0.0307 ppm	0.0022 ppm	0.0038 ppm	0.0247 ppm
Concentration per Run 3	1.7123 ppm	0.0008 ppm	0.1059 ppm	0.0285 ppm	0.0017 ppm	0.0042 ppm	0.0248 ppm
Concentration RSD	0.3 %	33.7 %	3.1 %	4.7 %	48.8 %	8.9 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.2572 %	99.7135 %	101.3769 %	103.8046 %	98.7300 %	102.0861 %
Concentration per Run 1	105.4676 %	102.2769 %	102.0860 %	106.8335 %	99.3672 %	104.5658 %
Concentration per Run 2	100.5081 %	96.3923 %	101.2501 %	102.1916 %	98.4184 %	99.0618 %
Concentration per Run 3	100.7960 %	100.4713 %	100.7947 %	102.3886 %	98.4043 %	102.6306 %
Concentration RSD	2.7 %	3.0 %	0.6 %	2.5 %	0.6 %	2.7 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339423-03d2 WG1802988
 Analysis started at: 8/2/2023 3:26:49 PM
 Rack: 1
 Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	147.6554 ppm	0.0622 ppm	0.0636 ppm	1.2071 ppm	0.0128 ppm	155.0655 ppm
Concentration per Run 1	-0.0001 ppm	146.3374 ppm	0.0620 ppm	0.0636 ppm	1.1967 ppm	0.0126 ppm	153.7236 ppm
Concentration per Run 2	-0.0003 ppm	148.4556 ppm	0.0613 ppm	0.0638 ppm	1.2121 ppm	0.0129 ppm	155.8773 ppm
Concentration per Run 3	-0.0013 ppm	148.1732 ppm	0.0634 ppm	0.0633 ppm	1.2124 ppm	0.0129 ppm	155.5955 ppm
Concentration RSD	116.8 %	0.8 %	1.7 %	0.4 %	0.7 %	1.6 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0003 ppm	0.1402 ppm	0.2122 ppm	0.1771 ppm	285.0984 ppm	10.0771 ppm	62.8503 ppm
Concentration per Run 1	-0.0002 ppm	0.1403 ppm	0.2126 ppm	0.1773 ppm	275.0834 ppm	10.0445 ppm	62.9096 ppm
Concentration per Run 2	-0.0003 ppm	0.1402 ppm	0.2119 ppm	0.1769 ppm	288.8820 ppm	10.0655 ppm	62.8618 ppm
Concentration per Run 3	-0.0004 ppm	0.1402 ppm	0.2119 ppm	0.1771 ppm	291.3299 ppm	10.1214 ppm	62.7794 ppm
Concentration RSD	33.6 %	0.1 %	0.2 %	0.1 %	3.1 %	0.4 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	6.2531 ppm	0.0013 ppm	1.3487 ppm	0.2542 ppm	0.7999 ppm	0.0215 ppm	-0.0029 ppm
Concentration per Run 1	6.1945 ppm	0.0013 ppm	1.3277 ppm	0.2549 ppm	0.8005 ppm	0.0236 ppm	-0.0034 ppm
Concentration per Run 2	6.2854 ppm	0.0013 ppm	1.3685 ppm	0.2541 ppm	0.8008 ppm	0.0192 ppm	-0.0001 ppm
Concentration per Run 3	6.2795 ppm	0.0014 ppm	1.3499 ppm	0.2535 ppm	0.7983 ppm	0.0215 ppm	-0.0050 ppm
Concentration RSD	0.8 %	5.2 %	1.5 %	0.3 %	0.2 %	10.2 %	86.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	16.0272 ppm	0.0086 ppm	0.3699 ppm	0.5400 ppm	0.0013 ppm	0.2758 ppm	0.7504 ppm
Concentration per Run 1	16.0280 ppm	0.0090 ppm	0.3669 ppm	0.5396 ppm	0.0022 ppm	0.2759 ppm	0.7503 ppm
Concentration per Run 2	16.0409 ppm	0.0080 ppm	0.3714 ppm	0.5413 ppm	0.0016 ppm	0.2756 ppm	0.7502 ppm
Concentration per Run 3	16.0127 ppm	0.0087 ppm	0.3715 ppm	0.5391 ppm	0.0000 ppm	0.2757 ppm	0.7507 ppm
Concentration RSD	0.1 %	5.9 %	0.7 %	0.2 %	86.2 %	0.1 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	124.6276 %	124.0886 %	124.1057 %	104.7401 %	97.4890 %	104.2473 %
Concentration per Run 1	125.6860 %	123.8046 %	124.2869 %	106.1955 %	97.5478 %	104.0046 %
Concentration per Run 2	123.9410 %	124.1848 %	124.2559 %	103.7811 %	97.6037 %	104.3118 %
Concentration per Run 3	124.2559 %	124.2763 %	123.7743 %	104.2437 %	97.3153 %	104.4255 %
Concentration RSD	0.7 %	0.2 %	0.2 %	1.2 %	0.2 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339423-04d2 WG1802988
 Analysis started at: 8/2/2023 3:31:17 PM
 Rack: 1
 Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	80.3553 ppm	0.0390 ppm	0.0372 ppm	0.6397 ppm	0.0045 ppm	84.4227 ppm
Concentration per Run 1	-0.0010 ppm	75.9596 ppm	0.0408 ppm	0.0374 ppm	0.6051 ppm	0.0042 ppm	79.8290 ppm
Concentration per Run 2	0.0002 ppm	82.3233 ppm	0.0389 ppm	0.0378 ppm	0.6551 ppm	0.0048 ppm	86.4878 ppm
Concentration per Run 3	0.0006 ppm	82.7830 ppm	0.0373 ppm	0.0363 ppm	0.6588 ppm	0.0045 ppm	86.9512 ppm
Concentration RSD	1,451.7 %	4.7 %	4.6 %	2.1 %	4.7 %	6.1 %	4.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0012 ppm	0.0395 ppm	0.1727 ppm	0.2024 ppm	196.4176 ppm	5.3368 ppm	22.4578 ppm
Concentration per Run 1	0.0012 ppm	0.0395 ppm	0.1728 ppm	0.2017 ppm	185.5946 ppm	5.0877 ppm	22.4625 ppm
Concentration per Run 2	0.0012 ppm	0.0397 ppm	0.1725 ppm	0.2026 ppm	201.2640 ppm	5.4237 ppm	22.4420 ppm
Concentration per Run 3	0.0012 ppm	0.0394 ppm	0.1728 ppm	0.2029 ppm	202.3943 ppm	5.4991 ppm	22.4691 ppm
Concentration RSD	1.5 %	0.4 %	0.1 %	0.3 %	4.8 %	4.1 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.2997 ppm	0.0036 ppm	1.1892 ppm	0.1224 ppm	2.1928 ppm	0.0132 ppm	0.0017 ppm
Concentration per Run 1	2.1741 ppm	0.0037 ppm	1.1154 ppm	0.1232 ppm	2.2021 ppm	0.0131 ppm	0.0004 ppm
Concentration per Run 2	2.3573 ppm	0.0034 ppm	1.2141 ppm	0.1227 ppm	2.1960 ppm	0.0137 ppm	0.0023 ppm
Concentration per Run 3	2.3676 ppm	0.0036 ppm	1.2381 ppm	0.1215 ppm	2.1802 ppm	0.0128 ppm	0.0022 ppm
Concentration RSD	4.7 %	4.1 %	5.5 %	0.7 %	0.5 %	3.2 %	65.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	17.1671 ppm	0.0161 ppm	0.6572 ppm	0.2622 ppm	0.0026 ppm	0.1476 ppm	0.9357 ppm
Concentration per Run 1	17.2589 ppm	0.0165 ppm	0.6215 ppm	0.2628 ppm	0.0034 ppm	0.1478 ppm	0.9393 ppm
Concentration per Run 2	17.1810 ppm	0.0157 ppm	0.6726 ppm	0.2623 ppm	0.0017 ppm	0.1474 ppm	0.9375 ppm
Concentration per Run 3	17.0613 ppm	0.0161 ppm	0.6776 ppm	0.2615 ppm	0.0027 ppm	0.1476 ppm	0.9302 ppm
Concentration RSD	0.6 %	2.4 %	4.7 %	0.2 %	33.1 %	0.1 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	113.6141 %	110.6641 %	111.0794 %	105.9608 %	98.0977 %	102.9801 %
Concentration per Run 1	119.1296 %	110.4947 %	111.1299 %	111.3984 %	98.0177 %	102.7583 %
Concentration per Run 2	111.0587 %	111.0102 %	111.1763 %	103.5880 %	97.8703 %	103.3231 %
Concentration per Run 3	110.6539 %	110.4874 %	110.9318 %	102.8960 %	98.4051 %	102.8588 %
Concentration RSD	4.2 %	0.3 %	0.1 %	4.5 %	0.3 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339430-01d2 WG1802988
 Analysis started at: 8/2/2023 3:35:38 PM
 Rack: 1
 Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.1279 ppm	98.5754 ppm	0.0278 ppm	0.1853 ppm	0.8140 ppm	0.0127 ppm	658.0354 ppm
Concentration per Run 1	0.1279 ppm	96.5452 ppm	0.0292 ppm	0.1857 ppm	0.7982 ppm	0.0123 ppm	648.5309 ppm
Concentration per Run 2	0.1278 ppm	99.7478 ppm	0.0266 ppm	0.1857 ppm	0.8231 ppm	0.0130 ppm	666.0633 ppm
Concentration per Run 3	0.1280 ppm	99.4332 ppm	0.0275 ppm	0.1845 ppm	0.8207 ppm	0.0129 ppm	659.5120 ppm
Concentration RSD	0.1 %	1.8 %	4.8 %	0.4 %	1.7 %	3.0 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0696 ppm	1.3984 ppm	1.3165 ppm	1.0123 ppm	220.5195 ppm	21.6554 ppm	54.9784 ppm
Concentration per Run 1	0.0698 ppm	1.4010 ppm	1.3203 ppm	1.0146 ppm	215.8069 ppm	21.2533 ppm	55.0866 ppm
Concentration per Run 2	0.0697 ppm	1.3992 ppm	1.3132 ppm	1.0113 ppm	223.1818 ppm	21.8726 ppm	54.9320 ppm
Concentration per Run 3	0.0692 ppm	1.3950 ppm	1.3159 ppm	1.0108 ppm	222.5697 ppm	21.8404 ppm	54.9166 ppm
Concentration RSD	0.4 %	0.2 %	0.3 %	0.2 %	1.9 %	1.6 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.1905 ppm	0.0340 ppm	12.1570 ppm	1.6746 ppm	0.1337 ppm	-0.0065 ppm	0.0095 ppm
Concentration per Run 1	2.1444 ppm	0.0335 ppm	11.9001 ppm	1.6757 ppm	0.1331 ppm	-0.0071 ppm	0.0106 ppm
Concentration per Run 2	2.2167 ppm	0.0340 ppm	12.2752 ppm	1.6768 ppm	0.1347 ppm	-0.0056 ppm	0.0066 ppm
Concentration per Run 3	2.2103 ppm	0.0346 ppm	12.2956 ppm	1.6715 ppm	0.1333 ppm	-0.0069 ppm	0.0112 ppm
Concentration RSD	1.8 %	1.6 %	1.8 %	0.2 %	0.7 %	12.2 %	26.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	17.9156 ppm	0.1418 ppm	0.8464 ppm	5.3041 ppm	0.0002 ppm	0.4769 ppm	2.0040 ppm
Concentration per Run 1	17.9430 ppm	0.1424 ppm	0.8288 ppm	5.3118 ppm	0.0020 ppm	0.4775 ppm	2.0074 ppm
Concentration per Run 2	17.9336 ppm	0.1415 ppm	0.8565 ppm	5.3005 ppm	-0.0007 ppm	0.4764 ppm	2.0050 ppm
Concentration per Run 3	17.8703 ppm	0.1416 ppm	0.8540 ppm	5.3000 ppm	-0.0007 ppm	0.4769 ppm	1.9996 ppm
Concentration RSD	0.2 %	0.3 %	1.8 %	0.1 %	779.4 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	113.3117 %	108.7253 %	108.3699 %	106.6716 %	94.7905 %	102.9261 %
Concentration per Run 1	114.8169 %	108.6563 %	108.2271 %	108.8857 %	94.6246 %	102.7989 %
Concentration per Run 2	112.3378 %	108.7903 %	108.3683 %	105.2881 %	94.7256 %	103.0709 %
Concentration per Run 3	112.7803 %	108.7292 %	108.5143 %	105.8411 %	95.0214 %	102.9085 %
Concentration RSD	1.2 %	0.1 %	0.1 %	1.8 %	0.2 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339907-03d2 WG1802988
 Analysis started at: 8/2/2023 3:40:06 PM
 Rack: 1
 Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0022 ppm	68.8549 ppm	0.0817 ppm	0.0334 ppm	1.2412 ppm	0.0056 ppm	153.0228 ppm
Concentration per Run 1	0.0023 ppm	66.3414 ppm	0.0786 ppm	0.0338 ppm	1.1953 ppm	0.0055 ppm	147.5747 ppm
Concentration per Run 2	0.0025 ppm	69.9663 ppm	0.0842 ppm	0.0333 ppm	1.2627 ppm	0.0057 ppm	155.6179 ppm
Concentration per Run 3	0.0017 ppm	70.2571 ppm	0.0825 ppm	0.0332 ppm	1.2656 ppm	0.0057 ppm	155.8759 ppm
Concentration RSD	19.9 %	3.2 %	3.5 %	0.9 %	3.2 %	2.0 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0193 ppm	0.0495 ppm	0.1232 ppm	1.0181 ppm	176.1577 ppm	5.8976 ppm	61.6050 ppm
Concentration per Run 1	0.0192 ppm	0.0493 ppm	0.1234 ppm	1.0201 ppm	169.6553 ppm	5.7214 ppm	61.8307 ppm
Concentration per Run 2	0.0193 ppm	0.0499 ppm	0.1231 ppm	1.0174 ppm	179.1803 ppm	5.9775 ppm	61.4654 ppm
Concentration per Run 3	0.0193 ppm	0.0492 ppm	0.1230 ppm	1.0169 ppm	179.6376 ppm	5.9939 ppm	61.5189 ppm
Concentration RSD	0.3 %	0.7 %	0.2 %	0.2 %	3.2 %	2.6 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.4806 ppm	0.0053 ppm	1.0178 ppm	0.1760 ppm	2.8252 ppm	0.0189 ppm	0.0060 ppm
Concentration per Run 1	4.3214 ppm	0.0054 ppm	0.9626 ppm	0.1757 ppm	2.8222 ppm	0.0210 ppm	0.0077 ppm
Concentration per Run 2	4.5547 ppm	0.0053 ppm	1.0396 ppm	0.1763 ppm	2.8307 ppm	0.0189 ppm	0.0058 ppm
Concentration per Run 3	4.5657 ppm	0.0051 ppm	1.0512 ppm	0.1759 ppm	2.8229 ppm	0.0168 ppm	0.0046 ppm
Concentration RSD	3.1 %	3.1 %	4.7 %	0.2 %	0.2 %	11.1 %	26.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	14.7543 ppm	0.2634 ppm	0.2498 ppm	1.2795 ppm	0.0015 ppm	0.1749 ppm	11.4343 ppm
Concentration per Run 1	14.7493 ppm	0.2625 ppm	0.2407 ppm	1.2824 ppm	0.0040 ppm	0.1750 ppm	11.4214 ppm
Concentration per Run 2	14.7822 ppm	0.2647 ppm	0.2546 ppm	1.2757 ppm	-0.0007 ppm	0.1750 ppm	11.4619 ppm
Concentration per Run 3	14.7314 ppm	0.2631 ppm	0.2541 ppm	1.2804 ppm	0.0011 ppm	0.1747 ppm	11.4194 ppm
Concentration RSD	0.2 %	0.4 %	3.2 %	0.3 %	162.8 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	126.7378 %	126.5142 %	125.3055 %	103.4832 %	96.3195 %	102.6543 %
Concentration per Run 1	129.9076 %	125.7299 %	125.7056 %	106.9066 %	96.6983 %	102.1913 %
Concentration per Run 2	125.4037 %	126.4998 %	124.6942 %	101.9097 %	95.8443 %	102.7345 %
Concentration per Run 3	124.9022 %	127.3129 %	125.5167 %	101.6334 %	96.4160 %	103.0372 %
Concentration RSD	2.2 %	0.6 %	0.4 %	2.9 %	0.5 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339907-04d2 WG1802988
 Analysis started at: 8/2/2023 3:44:26 PM
 Rack: 1
 Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0013 ppm	54.5204 ppm	0.0942 ppm	0.0261 ppm	1.0717 ppm	0.0055 ppm	97.2347 ppm
Concentration per Run 1	0.0009 ppm	52.5128 ppm	0.0952 ppm	0.0266 ppm	1.0305 ppm	0.0054 ppm	93.6856 ppm
Concentration per Run 2	0.0018 ppm	55.4393 ppm	0.0913 ppm	0.0263 ppm	1.0908 ppm	0.0056 ppm	98.9072 ppm
Concentration per Run 3	0.0011 ppm	55.6090 ppm	0.0962 ppm	0.0253 ppm	1.0937 ppm	0.0057 ppm	99.1112 ppm
Concentration RSD	36.9 %	3.2 %	2.8 %	2.5 %	3.3 %	2.8 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0051 ppm	0.0469 ppm	0.1055 ppm	0.8679 ppm	102.5431 ppm	4.5070 ppm	33.5759 ppm
Concentration per Run 1	0.0051 ppm	0.0470 ppm	0.1053 ppm	0.8641 ppm	98.6732 ppm	4.3079 ppm	33.4596 ppm
Concentration per Run 2	0.0050 ppm	0.0468 ppm	0.1048 ppm	0.8661 ppm	104.3999 ppm	4.5927 ppm	33.5157 ppm
Concentration per Run 3	0.0051 ppm	0.0469 ppm	0.1062 ppm	0.8734 ppm	104.5562 ppm	4.6204 ppm	33.7524 ppm
Concentration RSD	0.8 %	0.1 %	0.7 %	0.6 %	3.3 %	3.8 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.6618 ppm	0.0078 ppm	1.2893 ppm	0.3065 ppm	11.5338 ppm	0.0111 ppm	0.0106 ppm
Concentration per Run 1	2.5643 ppm	0.0076 ppm	1.2581 ppm	0.3067 ppm	11.5425 ppm	0.0087 ppm	0.0094 ppm
Concentration per Run 2	2.7095 ppm	0.0082 ppm	1.2903 ppm	0.3075 ppm	11.5614 ppm	0.0124 ppm	0.0144 ppm
Concentration per Run 3	2.7116 ppm	0.0078 ppm	1.3195 ppm	0.3053 ppm	11.4975 ppm	0.0124 ppm	0.0081 ppm
Concentration RSD	3.2 %	3.8 %	2.4 %	0.4 %	0.3 %	19.2 %	31.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	13.2256 ppm	0.1218 ppm	0.3515 ppm	0.9268 ppm	0.0008 ppm	0.1744 ppm	2.5698 ppm
Concentration per Run 1	13.2288 ppm	0.1216 ppm	0.3384 ppm	0.9229 ppm	0.0001 ppm	0.1739 ppm	2.5741 ppm
Concentration per Run 2	13.2592 ppm	0.1219 ppm	0.3576 ppm	0.9262 ppm	0.0017 ppm	0.1742 ppm	2.5744 ppm
Concentration per Run 3	13.1888 ppm	0.1218 ppm	0.3584 ppm	0.9314 ppm	0.0006 ppm	0.1750 ppm	2.5608 ppm
Concentration RSD	0.3 %	0.1 %	3.2 %	0.5 %	98.8 %	0.3 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	115.8988 %	117.1010 %	115.9201 %	103.5605 %	98.2851 %	103.9417 %
Concentration per Run 1	118.3523 %	117.0773 %	115.6082 %	106.2657 %	98.1871 %	104.2169 %
Concentration per Run 2	114.7195 %	117.5770 %	116.4260 %	102.3644 %	98.2598 %	104.2432 %
Concentration per Run 3	114.6245 %	116.6488 %	115.7261 %	102.0515 %	98.4083 %	103.3648 %
Concentration RSD	1.8 %	0.4 %	0.4 %	2.3 %	0.1 %	0.5 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339907-05d2 WG1802988
 Analysis started at: 8/2/2023 3:48:48 PM
 Rack: 1
 Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	59.9226 ppm	0.1170 ppm	0.0627 ppm	0.9792 ppm	0.0059 ppm	165.6740 ppm
Concentration per Run 1	-0.0007 ppm	57.0357 ppm	0.1177 ppm	0.0626 ppm	0.9335 ppm	0.0058 ppm	157.9567 ppm
Concentration per Run 2	0.0005 ppm	61.1868 ppm	0.1179 ppm	0.0629 ppm	0.9989 ppm	0.0060 ppm	169.0994 ppm
Concentration per Run 3	0.0001 ppm	61.5453 ppm	0.1153 ppm	0.0626 ppm	1.0052 ppm	0.0060 ppm	169.9659 ppm
Concentration RSD	1,834.3 %	4.2 %	1.3 %	0.3 %	4.1 %	1.8 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0033 ppm	0.0654 ppm	0.1013 ppm	0.7199 ppm	161.0703 ppm	6.2160 ppm	75.9028 ppm
Concentration per Run 1	0.0034 ppm	0.0653 ppm	0.1017 ppm	0.7209 ppm	153.3954 ppm	5.9585 ppm	76.0202 ppm
Concentration per Run 2	0.0032 ppm	0.0656 ppm	0.1007 ppm	0.7205 ppm	164.3669 ppm	6.3239 ppm	75.9570 ppm
Concentration per Run 3	0.0032 ppm	0.0653 ppm	0.1014 ppm	0.7184 ppm	165.4485 ppm	6.3655 ppm	75.7310 ppm
Concentration RSD	2.7 %	0.2 %	0.5 %	0.2 %	4.1 %	3.6 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.3884 ppm	0.0145 ppm	1.9203 ppm	0.1419 ppm	1.0865 ppm	0.0167 ppm	0.0041 ppm
Concentration per Run 1	3.2283 ppm	0.0143 ppm	1.8147 ppm	0.1424 ppm	1.0878 ppm	0.0187 ppm	0.0044 ppm
Concentration per Run 2	3.4595 ppm	0.0145 ppm	1.9843 ppm	0.1415 ppm	1.0865 ppm	0.0146 ppm	0.0069 ppm
Concentration per Run 3	3.4774 ppm	0.0147 ppm	1.9620 ppm	0.1416 ppm	1.0853 ppm	0.0169 ppm	0.0010 ppm
Concentration RSD	4.1 %	1.3 %	4.8 %	0.3 %	0.1 %	12.2 %	72.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	14.0304 ppm	0.0681 ppm	0.4359 ppm	0.7661 ppm	0.0017 ppm	0.2312 ppm	3.6508 ppm
Concentration per Run 1	14.0415 ppm	0.0687 ppm	0.4159 ppm	0.7679 ppm	0.0023 ppm	0.2313 ppm	3.6559 ppm
Concentration per Run 2	14.0304 ppm	0.0679 ppm	0.4452 ppm	0.7655 ppm	-0.0001 ppm	0.2309 ppm	3.6534 ppm
Concentration per Run 3	14.0192 ppm	0.0677 ppm	0.4467 ppm	0.7649 ppm	0.0030 ppm	0.2315 ppm	3.6432 ppm
Concentration RSD	0.1 %	0.8 %	4.0 %	0.2 %	91.7 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	120.9807 %	120.4855 %	119.5443 %	103.8845 %	96.3352 %	102.6320 %
Concentration per Run 1	124.6053 %	120.2182 %	119.5002 %	108.0440 %	96.2042 %	102.4593 %
Concentration per Run 2	119.6855 %	120.4022 %	119.5237 %	102.3907 %	96.2609 %	102.3968 %
Concentration per Run 3	118.6512 %	120.8361 %	119.6090 %	101.2189 %	96.5406 %	103.0400 %
Concentration RSD	2.6 %	0.3 %	0.0 %	3.5 %	0.2 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339907-06d2 WG1802988
 Analysis started at: 8/2/2023 3:53:11 PM
 Rack: 1
 Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	44.6362 ppm	0.0616 ppm	0.0251 ppm	0.4790 ppm	0.0094 ppm	31.1255 ppm
Concentration per Run 1	0.0003 ppm	42.9043 ppm	0.0597 ppm	0.0251 ppm	0.4601 ppm	0.0091 ppm	29.9659 ppm
Concentration per Run 2	0.0006 ppm	45.3720 ppm	0.0638 ppm	0.0255 ppm	0.4868 ppm	0.0095 ppm	31.6126 ppm
Concentration per Run 3	-0.0001 ppm	45.6325 ppm	0.0612 ppm	0.0248 ppm	0.4900 ppm	0.0096 ppm	31.7981 ppm
Concentration RSD	134.5 %	3.4 %	3.4 %	1.5 %	3.4 %	2.7 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0205 ppm	0.0454 ppm	0.0664 ppm	1.9034 ppm	73.3371 ppm	3.2206 ppm	11.8620 ppm
Concentration per Run 1	0.0205 ppm	0.0452 ppm	0.0663 ppm	1.9043 ppm	70.3963 ppm	3.0790 ppm	11.8675 ppm
Concentration per Run 2	0.0205 ppm	0.0458 ppm	0.0665 ppm	1.9052 ppm	74.5367 ppm	3.2781 ppm	11.8833 ppm
Concentration per Run 3	0.0204 ppm	0.0451 ppm	0.0664 ppm	1.9007 ppm	75.0783 ppm	3.3048 ppm	11.8352 ppm
Concentration RSD	0.3 %	0.8 %	0.2 %	0.1 %	3.5 %	3.8 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.5961 ppm	0.0103 ppm	1.3065 ppm	0.3837 ppm	0.4334 ppm	0.0079 ppm	0.0107 ppm
Concentration per Run 1	1.5347 ppm	0.0104 ppm	1.2890 ppm	0.3831 ppm	0.4346 ppm	0.0096 ppm	0.0087 ppm
Concentration per Run 2	1.6214 ppm	0.0102 ppm	1.3095 ppm	0.3858 ppm	0.4335 ppm	0.0064 ppm	0.0147 ppm
Concentration per Run 3	1.6322 ppm	0.0101 ppm	1.3210 ppm	0.3822 ppm	0.4320 ppm	0.0078 ppm	0.0088 ppm
Concentration RSD	3.3 %	1.5 %	1.2 %	0.5 %	0.3 %	20.1 %	31.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.9512 ppm	0.0900 ppm	0.5302 ppm	0.8835 ppm	0.0011 ppm	0.1614 ppm	5.0691 ppm
Concentration per Run 1	8.9485 ppm	0.0901 ppm	0.5100 ppm	0.8859 ppm	0.0008 ppm	0.1621 ppm	5.0680 ppm
Concentration per Run 2	8.9754 ppm	0.0899 ppm	0.5385 ppm	0.8843 ppm	0.0022 ppm	0.1613 ppm	5.0815 ppm
Concentration per Run 3	8.9297 ppm	0.0899 ppm	0.5421 ppm	0.8802 ppm	0.0001 ppm	0.1608 ppm	5.0578 ppm
Concentration RSD	0.3 %	0.1 %	3.3 %	0.3 %	100.6 %	0.4 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	115.8392 %	117.3557 %	116.2150 %	104.5905 %	101.1159 %	105.4956 %
Concentration per Run 1	118.9177 %	117.5167 %	116.1295 %	107.6460 %	101.1749 %	105.6099 %
Concentration per Run 2	114.2428 %	117.2321 %	115.8761 %	102.7451 %	100.7303 %	105.2639 %
Concentration per Run 3	114.3572 %	117.3184 %	116.6394 %	103.3804 %	101.4424 %	105.6130 %
Concentration RSD	2.3 %	0.1 %	0.3 %	2.5 %	0.4 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339423-02d10 WG1802988
 Analysis started at: 8/2/2023 3:57:35 PM
 Rack: 1
 Vial: 58

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	19.1194 ppm	0.0216 ppm	0.0138 ppm	0.1580 ppm	0.0015 ppm	73.0964 ppm
Concentration per Run 1	0.0007 ppm	18.0719 ppm	0.0219 ppm	0.0133 ppm	0.1497 ppm	0.0016 ppm	69.2844 ppm
Concentration per Run 2	0.0000 ppm	19.6192 ppm	0.0204 ppm	0.0143 ppm	0.1619 ppm	0.0014 ppm	74.8143 ppm
Concentration per Run 3	0.0001 ppm	19.6671 ppm	0.0225 ppm	0.0139 ppm	0.1625 ppm	0.0015 ppm	75.1906 ppm
Concentration RSD	137.2 %	4.7 %	5.0 %	3.5 %	4.6 %	5.8 %	4.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0011 ppm	0.0166 ppm	0.1158 ppm	0.0888 ppm	105.4706 ppm	1.4367 ppm	16.6179 ppm
Concentration per Run 1	0.0012 ppm	0.0164 ppm	0.1159 ppm	0.0884 ppm	99.7852 ppm	1.3595 ppm	16.6117 ppm
Concentration per Run 2	0.0011 ppm	0.0167 ppm	0.1161 ppm	0.0884 ppm	108.0273 ppm	1.4679 ppm	16.5907 ppm
Concentration per Run 3	0.0011 ppm	0.0167 ppm	0.1154 ppm	0.0896 ppm	108.5994 ppm	1.4826 ppm	16.6512 ppm
Concentration RSD	4.9 %	1.0 %	0.3 %	0.8 %	4.7 %	4.7 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.4834 ppm	0.0020 ppm	0.3108 ppm	0.0592 ppm	1.1664 ppm	0.0060 ppm	-0.0029 ppm
Concentration per Run 1	1.4054 ppm	0.0021 ppm	0.2978 ppm	0.0590 ppm	1.1691 ppm	0.0043 ppm	-0.0027 ppm
Concentration per Run 2	1.5176 ppm	0.0020 ppm	0.3092 ppm	0.0594 ppm	1.1649 ppm	0.0067 ppm	-0.0009 ppm
Concentration per Run 3	1.5274 ppm	0.0018 ppm	0.3255 ppm	0.0591 ppm	1.1651 ppm	0.0070 ppm	-0.0051 ppm
Concentration RSD	4.6 %	6.6 %	4.5 %	0.3 %	0.2 %	24.0 %	71.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.5439 ppm	0.0073 ppm	0.1236 ppm	0.2204 ppm	0.0019 ppm	0.0417 ppm	0.2798 ppm
Concentration per Run 1	3.5539 ppm	0.0076 ppm	0.1169 ppm	0.2213 ppm	0.0023 ppm	0.0421 ppm	0.2814 ppm
Concentration per Run 2	3.5442 ppm	0.0068 ppm	0.1263 ppm	0.2195 ppm	0.0017 ppm	0.0413 ppm	0.2796 ppm
Concentration per Run 3	3.5335 ppm	0.0075 ppm	0.1275 ppm	0.2204 ppm	0.0016 ppm	0.0416 ppm	0.2784 ppm
Concentration RSD	0.3 %	6.0 %	4.7 %	0.4 %	21.0 %	1.0 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.4582 %	104.2222 %	104.1299 %	103.1487 %	97.0249 %	102.0741 %
Concentration per Run 1	109.2771 %	104.2210 %	104.1485 %	107.8523 %	97.0910 %	102.2258 %
Concentration per Run 2	101.9626 %	104.3997 %	104.0896 %	100.8880 %	97.0074 %	102.1786 %
Concentration per Run 3	102.1351 %	104.0459 %	104.1515 %	100.7058 %	96.9764 %	101.8179 %
Concentration RSD	4.0 %	0.2 %	0.0 %	4.0 %	0.1 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCV
 Analysis started at: 8/2/2023 4:01:59 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4961 ppm	0.5087 ppm	0.5342 ppm	0.4913 ppm	0.4736 ppm	0.5125 ppm	0.5082 ppm
Concentration per Run 1	0.4954 ppm	0.4858 ppm	0.5345 ppm	0.4903 ppm	0.4557 ppm	0.4933 ppm	0.4796 ppm
Concentration per Run 2	0.4968 ppm	0.5198 ppm	0.5330 ppm	0.4905 ppm	0.4813 ppm	0.5211 ppm	0.5131 ppm
Concentration per Run 3	0.4961 ppm	0.5206 ppm	0.5351 ppm	0.4930 ppm	0.4839 ppm	0.5229 ppm	0.5318 ppm
Recovery Percentage 1	99.219 %	101.745 %	106.840 %	98.253 %	94.728 %	102.493 %	101.630 %
Concentration RSD	0.1 %	3.9 %	0.2 %	0.3 %	3.3 %	3.2 %	5.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4748 ppm	0.4991 ppm	0.5257 ppm	0.5033 ppm	0.5100 ppm	5.1443 ppm	0.5096 ppm
Concentration per Run 1	0.4744 ppm	0.4985 ppm	0.5265 ppm	0.5024 ppm	0.4858 ppm	4.9116 ppm	0.5116 ppm
Concentration per Run 2	0.4737 ppm	0.4977 ppm	0.5262 ppm	0.5041 ppm	0.5165 ppm	5.2436 ppm	0.5093 ppm
Concentration per Run 3	0.4764 ppm	0.5011 ppm	0.5244 ppm	0.5035 ppm	0.5279 ppm	5.2778 ppm	0.5078 ppm
Recovery Percentage 1	94.963 %	99.818 %	105.144 %	100.662 %	102.007 %	102.887 %	101.913 %
Concentration RSD	0.3 %	0.4 %	0.2 %	0.2 %	4.3 %	3.9 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5120 ppm	0.4919 ppm	10.0004 ppm	0.4843 ppm	0.5066 ppm	0.4906 ppm	0.5075 ppm
Concentration per Run 1	0.4923 ppm	0.4900 ppm	9.6476 ppm	0.4843 ppm	0.5070 ppm	0.4856 ppm	0.5109 ppm
Concentration per Run 2	0.5209 ppm	0.4906 ppm	10.1633 ppm	0.4835 ppm	0.5046 ppm	0.4904 ppm	0.5031 ppm
Concentration per Run 3	0.5227 ppm	0.4950 ppm	10.1903 ppm	0.4850 ppm	0.5081 ppm	0.4959 ppm	0.5084 ppm
Recovery Percentage 1	102.394 %	98.377 %	100.004 %	96.854 %	101.316 %	98.123 %	101.496 %
Concentration RSD	3.3 %	0.6 %	3.1 %	0.2 %	0.4 %	1.1 %	0.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2076 ppm	0.5163 ppm	0.4742 ppm	0.4782 ppm	0.5265 ppm	0.5046 ppm	0.4983 ppm
Concentration per Run 1	5.2031 ppm	0.5164 ppm	0.4554 ppm	0.4782 ppm	0.5255 ppm	0.5048 ppm	0.4979 ppm
Concentration per Run 2	5.1999 ppm	0.5143 ppm	0.4827 ppm	0.4786 ppm	0.5260 ppm	0.5051 ppm	0.4971 ppm
Concentration per Run 3	5.2197 ppm	0.5181 ppm	0.4846 ppm	0.4779 ppm	0.5280 ppm	0.5037 ppm	0.4999 ppm
Recovery Percentage 1	104.152 %	103.255 %	94.846 %	95.646 %	105.300 %	100.910 %	99.661 %
Concentration RSD	0.2 %	0.4 %	3.4 %	0.1 %	0.3 %	0.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.2002 %	101.2069 %	100.5690 %	101.4003 %	99.2323 %	102.7758 %
Concentration per Run 1	101.4277 %	101.0584 %	100.3331 %	103.7351 %	99.1333 %	102.5473 %
Concentration per Run 2	98.7994 %	101.1151 %	100.9557 %	100.9814 %	99.5971 %	102.7841 %
Concentration per Run 3	97.3734 %	101.4473 %	100.4181 %	99.4843 %	98.9663 %	102.9960 %
Recovery Percentage 1						
Concentration RSD	2.1 %	0.2 %	0.3 %	2.1 %	0.3 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCB
 Analysis started at: 8/2/2023 4:06:20 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	-0.0109 ppm	0.0012 ppm	0.0016 ppm	0.0000 ppm	0.0002 ppm	0.0053 ppm
Concentration per Run 1	0.0003 ppm	-0.0148 ppm	0.0019 ppm	0.0013 ppm	-0.0001 ppm	0.0003 ppm	0.0069 ppm
Concentration per Run 2	0.0008 ppm	0.0056 ppm	0.0001 ppm	0.0017 ppm	0.0001 ppm	0.0002 ppm	0.0066 ppm
Concentration per Run 3	0.0007 ppm	-0.0236 ppm	0.0015 ppm	0.0018 ppm	-0.0001 ppm	0.0003 ppm	0.0025 ppm
Recovery Percentage 1	8.078 %	-10.918 %	23.311 %	5.232 %	-0.271 %	4.826 %	5.310 %
Concentration RSD	46.9 %	136.9 %	82.2 %	16.7 %	500.8 %	22.6 %	46.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0004 ppm	-0.0001 ppm	-0.0005 ppm	0.0086 ppm	0.0644 ppm	0.0014 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	-0.0003 ppm	0.0000 ppm	0.0067 ppm	0.0402 ppm	0.0005 ppm
Concentration per Run 2	0.0003 ppm	0.0005 ppm	-0.0003 ppm	-0.0011 ppm	0.0085 ppm	0.1006 ppm	0.0014 ppm
Concentration per Run 3	0.0003 ppm	0.0004 ppm	0.0003 ppm	-0.0004 ppm	0.0107 ppm	0.0525 ppm	0.0024 ppm
Recovery Percentage 1	6.152 %	2.226 %	-0.889 %	-4.773 %	17.298 %	2.577 %	1.407 %
Concentration RSD	30.7 %	6.6 %	395.0 %	116.5 %	23.1 %	49.6 %	67.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0010 ppm	0.0011 ppm	0.0166 ppm	0.0004 ppm	0.0003 ppm	0.0020 ppm	0.0033 ppm
Concentration per Run 1	0.0009 ppm	0.0011 ppm	0.0251 ppm	0.0004 ppm	0.0014 ppm	0.0024 ppm	0.0056 ppm
Concentration per Run 2	0.0014 ppm	0.0014 ppm	0.0000 ppm	0.0006 ppm	0.0004 ppm	0.0025 ppm	0.0021 ppm
Concentration per Run 3	0.0006 ppm	0.0008 ppm	0.0248 ppm	0.0003 ppm	-0.0008 ppm	0.0011 ppm	0.0021 ppm
Recovery Percentage 1	9.773 %	2.147 %	0.831 %	1.760 %	3.004 %	3.962 %	32.534 %
Concentration RSD	43.0 %	26.0 %	86.8 %	38.9 %	369.2 %	39.8 %	62.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0094 ppm	0.0019 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0007 ppm
Concentration per Run 1	0.0089 ppm	0.0020 ppm	0.0002 ppm	-0.0001 ppm	-0.0004 ppm	-0.0006 ppm	0.0007 ppm
Concentration per Run 2	0.0099 ppm	0.0015 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0009 ppm	0.0005 ppm
Concentration per Run 3	0.0092 ppm	0.0022 ppm	0.0002 ppm	0.0006 ppm	0.0010 ppm	-0.0006 ppm	0.0007 ppm
Recovery Percentage 1	1.871 %	3.764 %	2.120 %	1.358 %	1.341 %	-1.315 %	13.416 %
Concentration RSD	5.5 %	19.8 %	22.1 %	295.8 %	254.6 %	653.9 %	17.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.9111 %	101.1110 %	101.2918 %	99.4813 %	98.1825 %	100.5344 %
Concentration per Run 1	102.0548 %	101.8277 %	101.1220 %	102.4668 %	97.9928 %	101.2471 %
Concentration per Run 2	97.2702 %	100.1276 %	101.4991 %	97.8263 %	98.3089 %	99.6556 %
Concentration per Run 3	97.4083 %	101.3777 %	101.2543 %	98.1507 %	98.2457 %	100.7005 %
Recovery Percentage 1						
Concentration RSD	2.8 %	0.9 %	0.2 %	2.6 %	0.2 %	0.8 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCV
 Analysis started at: 8/2/2023 4:21:06 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4975 ppm	0.5152 ppm	0.5294 ppm	0.4908 ppm	0.4777 ppm	0.5088 ppm	0.5032 ppm
Concentration per Run 1	0.4968 ppm	0.4843 ppm	0.5272 ppm	0.4894 ppm	0.4559 ppm	0.4860 ppm	0.4784 ppm
Concentration per Run 2	0.4976 ppm	0.5292 ppm	0.5326 ppm	0.4917 ppm	0.4872 ppm	0.5180 ppm	0.5170 ppm
Concentration per Run 3	0.4982 ppm	0.5321 ppm	0.5285 ppm	0.4912 ppm	0.4901 ppm	0.5224 ppm	0.5141 ppm
Recovery Percentage 1	99.506 %	103.041 %	105.883 %	98.154 %	95.548 %	101.757 %	100.633 %
Concentration RSD	0.1 %	5.2 %	0.5 %	0.2 %	4.0 %	3.9 %	4.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4766 ppm	0.4990 ppm	0.5202 ppm	0.5032 ppm	0.5005 ppm	5.1254 ppm	0.5016 ppm
Concentration per Run 1	0.4756 ppm	0.4984 ppm	0.5194 ppm	0.5026 ppm	0.4718 ppm	4.9420 ppm	0.4976 ppm
Concentration per Run 2	0.4774 ppm	0.4997 ppm	0.5193 ppm	0.5032 ppm	0.5120 ppm	5.2006 ppm	0.4986 ppm
Concentration per Run 3	0.4767 ppm	0.4988 ppm	0.5221 ppm	0.5039 ppm	0.5178 ppm	5.2337 ppm	0.5085 ppm
Recovery Percentage 1	95.316 %	99.795 %	104.049 %	100.643 %	100.105 %	102.508 %	100.311 %
Concentration RSD	0.2 %	0.1 %	0.3 %	0.1 %	5.0 %	3.1 %	1.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5128 ppm	0.4906 ppm	10.0434 ppm	0.4867 ppm	0.5077 ppm	0.4884 ppm	0.5077 ppm
Concentration per Run 1	0.4886 ppm	0.4875 ppm	9.5794 ppm	0.4865 ppm	0.5066 ppm	0.4834 ppm	0.5080 ppm
Concentration per Run 2	0.5238 ppm	0.4914 ppm	10.2002 ppm	0.4880 ppm	0.5087 ppm	0.4905 ppm	0.5079 ppm
Concentration per Run 3	0.5260 ppm	0.4930 ppm	10.3505 ppm	0.4857 ppm	0.5080 ppm	0.4914 ppm	0.5071 ppm
Recovery Percentage 1	102.562 %	98.123 %	100.434 %	97.343 %	101.549 %	97.686 %	101.532 %
Concentration RSD	4.1 %	0.6 %	4.1 %	0.2 %	0.2 %	0.9 %	0.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1916 ppm	0.5119 ppm	0.4766 ppm	0.4788 ppm	0.5229 ppm	0.5029 ppm	0.4972 ppm
Concentration per Run 1	5.1728 ppm	0.5086 ppm	0.4548 ppm	0.4765 ppm	0.5197 ppm	0.5024 ppm	0.4963 ppm
Concentration per Run 2	5.2067 ppm	0.5132 ppm	0.4856 ppm	0.4783 ppm	0.5257 ppm	0.5019 ppm	0.4981 ppm
Concentration per Run 3	5.1952 ppm	0.5138 ppm	0.4895 ppm	0.4817 ppm	0.5233 ppm	0.5045 ppm	0.4972 ppm
Recovery Percentage 1	103.831 %	102.370 %	95.323 %	95.759 %	104.581 %	100.587 %	99.436 %
Concentration RSD	0.3 %	0.6 %	4.0 %	0.6 %	0.6 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.9784 %	101.3582 %	100.4671 %	101.0103 %	99.4247 %	102.7436 %
Concentration per Run 1	102.1918 %	102.1887 %	100.4752 %	104.5175 %	99.5203 %	103.4680 %
Concentration per Run 2	97.4759 %	100.8586 %	100.1003 %	99.5143 %	99.1986 %	102.3834 %
Concentration per Run 3	97.2676 %	101.0273 %	100.8259 %	98.9993 %	99.5553 %	102.3794 %
Recovery Percentage 1						
Concentration RSD	2.8 %	0.7 %	0.4 %	3.0 %	0.2 %	0.6 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCB
 Analysis started at: 8/2/2023 4:25:27 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	-0.0044 ppm	0.0022 ppm	0.0018 ppm	0.0002 ppm	0.0002 ppm	0.0042 ppm
Concentration per Run 1	0.0008 ppm	-0.0133 ppm	0.0006 ppm	0.0023 ppm	0.0003 ppm	0.0002 ppm	0.0100 ppm
Concentration per Run 2	0.0002 ppm	0.0026 ppm	0.0017 ppm	0.0012 ppm	0.0001 ppm	0.0002 ppm	0.0043 ppm
Concentration per Run 3	0.0006 ppm	-0.0025 ppm	0.0044 ppm	0.0021 ppm	0.0001 ppm	0.0002 ppm	-0.0016 ppm
Recovery Percentage 1	7.226 %	-4.377 %	44.467 %	6.165 %	1.692 %	3.818 %	4.231 %
Concentration RSD	61.5 %	186.2 %	89.2 %	32.8 %	69.3 %	11.0 %	137.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0004 ppm	0.0002 ppm	-0.0008 ppm	0.0095 ppm	0.0443 ppm	0.0024 ppm
Concentration per Run 1	0.0003 ppm	0.0003 ppm	0.0005 ppm	-0.0009 ppm	0.0132 ppm	0.0866 ppm	0.0022 ppm
Concentration per Run 2	0.0003 ppm	0.0003 ppm	0.0003 ppm	-0.0010 ppm	0.0095 ppm	0.0305 ppm	0.0019 ppm
Concentration per Run 3	0.0003 ppm	0.0005 ppm	-0.0001 ppm	-0.0006 ppm	0.0060 ppm	0.0159 ppm	0.0032 ppm
Recovery Percentage 1	6.442 %	1.819 %	2.314 %	-8.160 %	19.099 %	1.773 %	2.449 %
Concentration RSD	3.4 %	25.4 %	122.7 %	25.2 %	37.4 %	84.3 %	27.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0010 ppm	0.0012 ppm	0.0104 ppm	0.0003 ppm	-0.0005 ppm	0.0014 ppm	0.0010 ppm
Concentration per Run 1	0.0006 ppm	0.0016 ppm	0.0122 ppm	-0.0002 ppm	-0.0009 ppm	0.0008 ppm	0.0030 ppm
Concentration per Run 2	0.0008 ppm	0.0011 ppm	0.0027 ppm	0.0006 ppm	-0.0006 ppm	0.0007 ppm	-0.0005 ppm
Concentration per Run 3	0.0015 ppm	0.0009 ppm	0.0161 ppm	0.0005 ppm	-0.0001 ppm	0.0025 ppm	0.0005 ppm
Recovery Percentage 1	9.658 %	2.416 %	0.519 %	1.207 %	-5.398 %	2.701 %	9.865 %
Concentration RSD	48.7 %	26.9 %	66.4 %	144.4 %	71.0 %	77.1 %	179.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0067 ppm	0.0019 ppm	0.0002 ppm	0.0007 ppm	-0.0001 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 1	0.0070 ppm	0.0020 ppm	0.0002 ppm	0.0007 ppm	-0.0005 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 2	0.0071 ppm	0.0018 ppm	0.0001 ppm	0.0003 ppm	0.0011 ppm	-0.0007 ppm	0.0006 ppm
Concentration per Run 3	0.0060 ppm	0.0020 ppm	0.0003 ppm	0.0012 ppm	-0.0008 ppm	0.0001 ppm	0.0005 ppm
Recovery Percentage 1	1.342 %	3.878 %	1.974 %	7.163 %	-0.313 %	-1.174 %	9.478 %
Concentration RSD	8.9 %	6.2 %	48.5 %	62.2 %	1,671.5 %	423.7 %	18.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.1956 %	100.6769 %	100.4142 %	98.8840 %	97.4528 %	100.5166 %
Concentration per Run 1	101.2115 %	100.8921 %	100.7590 %	101.8545 %	97.5419 %	100.9703 %
Concentration per Run 2	96.8007 %	100.5171 %	100.3551 %	97.3622 %	97.4425 %	100.3634 %
Concentration per Run 3	96.5747 %	100.6214 %	100.1285 %	97.4354 %	97.3741 %	100.2161 %
Recovery Percentage 1						
Concentration RSD	2.7 %	0.2 %	0.3 %	2.6 %	0.1 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339332-01 WG1802475
 Analysis started at: 8/2/2023 4:31:27 PM
 Rack: 1
 Vial: 60

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0175 ppm	0.0059 ppm	0.0672 ppm	0.0332 ppm	0.0000 ppm	16.5298 ppm
Concentration per Run 1	-0.0003 ppm	0.0201 ppm	0.0067 ppm	0.0674 ppm	0.0325 ppm	0.0001 ppm	16.2704 ppm
Concentration per Run 2	0.0011 ppm	0.0141 ppm	0.0058 ppm	0.0675 ppm	0.0339 ppm	-0.0001 ppm	16.9213 ppm
Concentration per Run 3	0.0000 ppm	0.0185 ppm	0.0053 ppm	0.0666 ppm	0.0331 ppm	0.0000 ppm	16.3976 ppm
Concentration RSD	265.1 %	17.7 %	12.3 %	0.8 %	2.2 %	927.2 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0004 ppm	0.0006 ppm	0.0065 ppm	0.0388 ppm	9.7631 ppm	2.8380 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0007 ppm	0.0068 ppm	0.0368 ppm	9.5892 ppm	2.8896 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0064 ppm	0.0377 ppm	10.0068 ppm	2.8117 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	0.0007 ppm	0.0062 ppm	0.0420 ppm	9.6934 ppm	2.8127 ppm
Concentration RSD	9.9 %	22.1 %	24.8 %	5.0 %	7.2 %	2.2 %	1.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0346 ppm	0.0003 ppm	75.4156 ppm	0.0012 ppm	-0.0010 ppm	0.0006 ppm	0.0011 ppm
Concentration per Run 1	0.0336 ppm	0.0006 ppm	74.3183 ppm	0.0011 ppm	-0.0005 ppm	0.0005 ppm	0.0024 ppm
Concentration per Run 2	0.0351 ppm	0.0002 ppm	77.2836 ppm	0.0010 ppm	-0.0013 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 3	0.0350 ppm	0.0000 ppm	74.6450 ppm	0.0015 ppm	-0.0012 ppm	0.0012 ppm	0.0001 ppm
Concentration RSD	2.4 %	121.4 %	2.2 %	21.8 %	42.9 %	110.9 %	101.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9338 ppm	0.0010 ppm	0.0880 ppm	0.0019 ppm	0.0024 ppm	0.0000 ppm	0.0339 ppm
Concentration per Run 1	4.9477 ppm	0.0010 ppm	0.0868 ppm	0.0024 ppm	0.0019 ppm	0.0001 ppm	0.0340 ppm
Concentration per Run 2	4.9455 ppm	0.0010 ppm	0.0904 ppm	0.0014 ppm	0.0018 ppm	0.0000 ppm	0.0339 ppm
Concentration per Run 3	4.9083 ppm	0.0009 ppm	0.0869 ppm	0.0020 ppm	0.0037 ppm	-0.0001 ppm	0.0338 ppm
Concentration RSD	0.4 %	5.7 %	2.3 %	25.2 %	44.4 %	1,218.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.9451 %	99.1550 %	101.1354 %	101.1484 %	99.5659 %	100.6913 %
Concentration per Run 1	102.2341 %	97.9795 %	100.6934 %	102.6073 %	99.0288 %	99.3854 %
Concentration per Run 2	98.0989 %	99.6584 %	101.2293 %	99.5086 %	99.4703 %	101.2632 %
Concentration per Run 3	99.5022 %	99.8272 %	101.4835 %	101.3293 %	100.1986 %	101.4251 %
Concentration RSD	2.1 %	1.0 %	0.4 %	1.5 %	0.6 %	1.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339332-02 WG1802475
 Analysis started at: 8/2/2023 4:35:54 PM
 Rack: 2
 Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.1626 ppm	0.0033 ppm	0.0094 ppm	0.0143 ppm	0.0001 ppm	4.1331 ppm
Concentration per Run 1	0.0006 ppm	0.1443 ppm	0.0041 ppm	0.0088 ppm	0.0137 ppm	0.0000 ppm	4.0274 ppm
Concentration per Run 2	0.0002 ppm	0.1647 ppm	0.0047 ppm	0.0099 ppm	0.0145 ppm	0.0000 ppm	4.1782 ppm
Concentration per Run 3	-0.0003 ppm	0.1787 ppm	0.0010 ppm	0.0096 ppm	0.0145 ppm	0.0002 ppm	4.1936 ppm
Concentration RSD	256.2 %	10.6 %	60.3 %	5.7 %	3.3 %	133.4 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0008 ppm	0.0002 ppm	0.0006 ppm	1.3034 ppm	1.1493 ppm	0.8538 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0000 ppm	0.0003 ppm	1.2696 ppm	1.1260 ppm	0.8500 ppm
Concentration per Run 2	0.0001 ppm	0.0010 ppm	0.0001 ppm	0.0009 ppm	1.3239 ppm	1.2130 ppm	0.8557 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	0.0006 ppm	0.0007 ppm	1.3167 ppm	1.1089 ppm	0.8556 ppm
Concentration RSD	75.0 %	32.1 %	128.6 %	51.6 %	2.3 %	4.9 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0916 ppm	0.0002 ppm	16.8398 ppm	0.0019 ppm	0.0010 ppm	-0.0012 ppm	0.0017 ppm
Concentration per Run 1	0.0889 ppm	0.0000 ppm	16.3440 ppm	0.0021 ppm	0.0007 ppm	-0.0025 ppm	0.0007 ppm
Concentration per Run 2	0.0934 ppm	0.0003 ppm	17.0609 ppm	0.0019 ppm	0.0010 ppm	-0.0020 ppm	0.0047 ppm
Concentration per Run 3	0.0924 ppm	0.0002 ppm	17.1146 ppm	0.0018 ppm	0.0015 ppm	0.0008 ppm	-0.0004 ppm
Concentration RSD	2.6 %	112.7 %	2.6 %	8.2 %	38.2 %	144.6 %	157.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.6957 ppm	0.0003 ppm	0.0304 ppm	0.0030 ppm	0.0017 ppm	0.0003 ppm	0.0087 ppm
Concentration per Run 1	2.7010 ppm	0.0005 ppm	0.0296 ppm	0.0030 ppm	0.0022 ppm	0.0001 ppm	0.0087 ppm
Concentration per Run 2	2.6887 ppm	0.0005 ppm	0.0305 ppm	0.0028 ppm	0.0001 ppm	0.0004 ppm	0.0087 ppm
Concentration per Run 3	2.6974 ppm	-0.0003 ppm	0.0310 ppm	0.0031 ppm	0.0027 ppm	0.0005 ppm	0.0087 ppm
Concentration RSD	0.2 %	175.4 %	2.4 %	4.9 %	84.1 %	76.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.5249 %	102.9490 %	102.6425 %	100.9115 %	101.1668 %	102.9148 %
Concentration per Run 1	104.6303 %	103.4992 %	102.7642 %	104.0422 %	101.3042 %	103.4362 %
Concentration per Run 2	98.5324 %	102.6095 %	102.6226 %	99.3711 %	101.3117 %	102.6659 %
Concentration per Run 3	98.4120 %	102.7383 %	102.5406 %	99.3210 %	100.8846 %	102.6423 %
Concentration RSD	3.5 %	0.5 %	0.1 %	2.7 %	0.2 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339415-02 WG1802475
 Analysis started at: 8/2/2023 4:40:23 PM
 Rack: 2
 Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0014 ppm	0.2784 ppm	0.0032 ppm	0.0867 ppm	0.0648 ppm	-0.0001 ppm	147.3525 ppm
Concentration per Run 1	0.0014 ppm	0.2710 ppm	0.0028 ppm	0.0867 ppm	0.0628 ppm	-0.0003 ppm	143.3109 ppm
Concentration per Run 2	0.0019 ppm	0.2750 ppm	0.0043 ppm	0.0864 ppm	0.0659 ppm	-0.0002 ppm	149.6459 ppm
Concentration per Run 3	0.0009 ppm	0.2892 ppm	0.0024 ppm	0.0871 ppm	0.0658 ppm	0.0001 ppm	149.1007 ppm
Concentration RSD	34.4 %	3.4 %	32.0 %	0.4 %	2.7 %	155.4 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0005 ppm	0.0019 ppm	0.0249 ppm	0.6592 ppm	9.2323 ppm	25.8832 ppm
Concentration per Run 1	0.0003 ppm	0.0005 ppm	0.0018 ppm	0.0250 ppm	0.6362 ppm	8.9907 ppm	25.8134 ppm
Concentration per Run 2	0.0002 ppm	0.0004 ppm	0.0013 ppm	0.0250 ppm	0.6702 ppm	9.3478 ppm	25.9790 ppm
Concentration per Run 3	0.0002 ppm	0.0007 ppm	0.0026 ppm	0.0248 ppm	0.6712 ppm	9.3584 ppm	25.8573 ppm
Concentration RSD	24.7 %	31.2 %	33.9 %	0.4 %	3.0 %	2.3 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1228 ppm	0.0018 ppm	168.2336 ppm	0.0039 ppm	0.0004 ppm	0.0013 ppm	-0.0005 ppm
Concentration per Run 1	0.1191 ppm	0.0018 ppm	163.5419 ppm	0.0034 ppm	0.0010 ppm	0.0002 ppm	0.0013 ppm
Concentration per Run 2	0.1250 ppm	0.0017 ppm	170.9413 ppm	0.0042 ppm	0.0008 ppm	0.0009 ppm	0.0025 ppm
Concentration per Run 3	0.1242 ppm	0.0019 ppm	170.2178 ppm	0.0040 ppm	-0.0006 ppm	0.0027 ppm	-0.0054 ppm
Concentration RSD	2.6 %	6.4 %	2.4 %	11.5 %	216.6 %	104.7 %	790.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.5400 ppm	0.0007 ppm	0.7383 ppm	0.0053 ppm	0.0026 ppm	-0.0002 ppm	0.0748 ppm
Concentration per Run 1	3.5362 ppm	0.0008 ppm	0.7175 ppm	0.0048 ppm	0.0036 ppm	-0.0003 ppm	0.0749 ppm
Concentration per Run 2	3.5461 ppm	0.0009 ppm	0.7503 ppm	0.0053 ppm	0.0011 ppm	-0.0003 ppm	0.0748 ppm
Concentration per Run 3	3.5378 ppm	0.0005 ppm	0.7470 ppm	0.0058 ppm	0.0031 ppm	0.0001 ppm	0.0747 ppm
Concentration RSD	0.1 %	29.7 %	2.4 %	9.5 %	49.9 %	139.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.4579 %	98.9039 %	98.1163 %	99.4931 %	94.3115 %	99.0876 %
Concentration per Run 1	103.5992 %	99.3951 %	97.9949 %	102.1842 %	94.2697 %	99.3362 %
Concentration per Run 2	97.6692 %	98.7727 %	97.9657 %	98.2196 %	94.2852 %	99.0085 %
Concentration per Run 3	97.1052 %	98.5440 %	98.3883 %	98.0755 %	94.3794 %	98.9181 %
Concentration RSD	3.6 %	0.4 %	0.2 %	2.3 %	0.1 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339419-02 WG1802475
 Analysis started at: 8/2/2023 4:44:48 PM
 Rack: 2
 Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0008 ppm	0.3089 ppm	0.0062 ppm	0.0660 ppm	0.0427 ppm	-0.0003 ppm	88.3701 ppm
Concentration per Run 1	0.0005 ppm	0.3070 ppm	0.0043 ppm	0.0662 ppm	0.0401 ppm	-0.0003 ppm	83.7515 ppm
Concentration per Run 2	0.0012 ppm	0.3218 ppm	0.0063 ppm	0.0666 ppm	0.0447 ppm	-0.0003 ppm	91.4519 ppm
Concentration per Run 3	0.0009 ppm	0.2978 ppm	0.0081 ppm	0.0651 ppm	0.0434 ppm	-0.0003 ppm	89.9069 ppm
Concentration RSD	43.1 %	3.9 %	29.8 %	1.2 %	5.5 %	2.6 %	4.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0004 ppm	0.0006 ppm	0.0024 ppm	0.0251 ppm	0.6420 ppm	28.4922 ppm	26.0916 ppm
Concentration per Run 1	0.0003 ppm	0.0004 ppm	0.0022 ppm	0.0250 ppm	0.6083 ppm	27.0395 ppm	26.1072 ppm
Concentration per Run 2	0.0004 ppm	0.0009 ppm	0.0024 ppm	0.0253 ppm	0.6681 ppm	29.4251 ppm	26.0645 ppm
Concentration per Run 3	0.0004 ppm	0.0006 ppm	0.0025 ppm	0.0248 ppm	0.6494 ppm	29.0120 ppm	26.1031 ppm
Concentration RSD	9.6 %	36.3 %	6.2 %	0.9 %	4.8 %	4.5 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1230 ppm	0.0019 ppm	126.7568 ppm	0.0039 ppm	0.0022 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.1157 ppm	0.0019 ppm	120.2221 ppm	0.0041 ppm	0.0022 ppm	0.0000 ppm	-0.0029 ppm
Concentration per Run 2	0.1277 ppm	0.0017 ppm	131.0934 ppm	0.0044 ppm	0.0019 ppm	0.0009 ppm	0.0001 ppm
Concentration per Run 3	0.1257 ppm	0.0021 ppm	128.9549 ppm	0.0032 ppm	0.0026 ppm	-0.0005 ppm	0.0031 ppm
Concentration RSD	5.2 %	10.1 %	4.5 %	16.1 %	15.1 %	514.3 %	2,725.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.4829 ppm	0.0023 ppm	0.4749 ppm	0.0034 ppm	0.0028 ppm	-0.0001 ppm	0.1449 ppm
Concentration per Run 1	2.5036 ppm	0.0022 ppm	0.4504 ppm	0.0041 ppm	0.0022 ppm	-0.0002 ppm	0.1461 ppm
Concentration per Run 2	2.4827 ppm	0.0026 ppm	0.4913 ppm	0.0029 ppm	0.0040 ppm	0.0001 ppm	0.1450 ppm
Concentration per Run 3	2.4625 ppm	0.0022 ppm	0.4830 ppm	0.0032 ppm	0.0023 ppm	-0.0001 ppm	0.1436 ppm
Concentration RSD	0.8 %	10.0 %	4.5 %	18.7 %	34.4 %	309.6 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.1312 %	102.5897 %	101.7546 %	102.5875 %	97.6563 %	102.1717 %
Concentration per Run 1	108.7969 %	102.5409 %	100.9229 %	107.1161 %	96.8927 %	102.0283 %
Concentration per Run 2	99.6923 %	102.5016 %	101.7313 %	99.7172 %	97.8047 %	102.1625 %
Concentration per Run 3	100.9043 %	102.7266 %	102.6095 %	100.9293 %	98.2716 %	102.3243 %
Concentration RSD	4.8 %	0.1 %	0.8 %	3.9 %	0.7 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339428-02 WG1802475
 Analysis started at: 8/2/2023 4:49:14 PM
 Rack: 2
 Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.3755 ppm	0.0057 ppm	0.1063 ppm	0.1265 ppm	-0.0002 ppm	54.4048 ppm
Concentration per Run 1	-0.0002 ppm	0.3738 ppm	0.0029 ppm	0.1064 ppm	0.1225 ppm	-0.0001 ppm	52.5477 ppm
Concentration per Run 2	0.0001 ppm	0.3725 ppm	0.0043 ppm	0.1057 ppm	0.1287 ppm	-0.0002 ppm	55.3972 ppm
Concentration per Run 3	0.0003 ppm	0.3803 ppm	0.0099 ppm	0.1068 ppm	0.1282 ppm	-0.0002 ppm	55.2695 ppm
Concentration RSD	264.4 %	1.1 %	64.5 %	0.6 %	2.7 %	30.8 %	3.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0007 ppm	0.0025 ppm	0.0251 ppm	0.4291 ppm	18.5043 ppm	13.4320 ppm
Concentration per Run 1	0.0003 ppm	0.0006 ppm	0.0025 ppm	0.0254 ppm	0.4146 ppm	17.9249 ppm	13.4938 ppm
Concentration per Run 2	0.0002 ppm	0.0008 ppm	0.0024 ppm	0.0255 ppm	0.4323 ppm	18.7091 ppm	13.4306 ppm
Concentration per Run 3	0.0003 ppm	0.0006 ppm	0.0025 ppm	0.0243 ppm	0.4403 ppm	18.8789 ppm	13.3715 ppm
Concentration RSD	29.3 %	17.1 %	3.9 %	2.6 %	3.1 %	2.8 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0704 ppm	0.0025 ppm	138.0453 ppm	0.0040 ppm	0.0024 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 1	0.0673 ppm	0.0027 ppm	133.4636 ppm	0.0041 ppm	0.0035 ppm	0.0020 ppm	0.0010 ppm
Concentration per Run 2	0.0715 ppm	0.0024 ppm	140.3769 ppm	0.0039 ppm	0.0013 ppm	-0.0015 ppm	-0.0006 ppm
Concentration per Run 3	0.0723 ppm	0.0023 ppm	140.2956 ppm	0.0041 ppm	0.0023 ppm	0.0020 ppm	0.0007 ppm
Concentration RSD	3.8 %	7.8 %	2.9 %	3.1 %	47.0 %	238.9 %	226.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.0440 ppm	0.0116 ppm	0.2757 ppm	0.0020 ppm	0.0013 ppm	0.0003 ppm	0.1219 ppm
Concentration per Run 1	2.0517 ppm	0.0116 ppm	0.2661 ppm	0.0020 ppm	0.0021 ppm	0.0000 ppm	0.1220 ppm
Concentration per Run 2	2.0348 ppm	0.0112 ppm	0.2802 ppm	0.0021 ppm	0.0004 ppm	0.0005 ppm	0.1215 ppm
Concentration per Run 3	2.0455 ppm	0.0119 ppm	0.2807 ppm	0.0019 ppm	0.0013 ppm	0.0004 ppm	0.1220 ppm
Concentration RSD	0.4 %	3.1 %	3.0 %	6.0 %	65.7 %	91.6 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.2929 %	100.7318 %	100.2487 %	101.3648 %	96.7767 %	100.7349 %
Concentration per Run 1	104.2097 %	100.7205 %	100.1160 %	103.3372 %	96.4141 %	100.6978 %
Concentration per Run 2	100.2191 %	100.8815 %	100.7753 %	100.5579 %	97.0705 %	100.8467 %
Concentration per Run 3	99.4499 %	100.5934 %	99.8548 %	100.1992 %	96.8454 %	100.6601 %
Concentration RSD	2.5 %	0.1 %	0.5 %	1.7 %	0.3 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339599-02 WG1802475
 Analysis started at: 8/2/2023 4:53:40 PM
 Rack: 2
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.2274 ppm	0.0063 ppm	0.0442 ppm	0.0152 ppm	0.0000 ppm	14.1444 ppm
Concentration per Run 1	0.0009 ppm	0.2193 ppm	0.0064 ppm	0.0441 ppm	0.0149 ppm	-0.0002 ppm	13.5964 ppm
Concentration per Run 2	-0.0002 ppm	0.2385 ppm	0.0065 ppm	0.0448 ppm	0.0155 ppm	0.0001 ppm	14.6772 ppm
Concentration per Run 3	-0.0002 ppm	0.2245 ppm	0.0061 ppm	0.0438 ppm	0.0153 ppm	-0.0001 ppm	14.1594 ppm
Concentration RSD	371.6 %	4.4 %	3.0 %	1.2 %	1.9 %	252.8 %	3.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0003 ppm	0.0038 ppm	0.0289 ppm	0.1455 ppm	15.1272 ppm	4.5585 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0035 ppm	0.0289 ppm	0.1365 ppm	14.5175 ppm	4.5508 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0043 ppm	0.0290 ppm	0.1502 ppm	15.7373 ppm	4.5750 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	0.0036 ppm	0.0288 ppm	0.1497 ppm	15.1266 ppm	4.5498 ppm
Concentration RSD	39.7 %	28.9 %	12.0 %	0.2 %	5.3 %	4.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0285 ppm	0.0009 ppm	457.8394 ppm	0.0044 ppm	-0.0007 ppm	-0.0004 ppm	0.0017 ppm
Concentration per Run 1	0.0271 ppm	0.0010 ppm	432.4211 ppm	0.0048 ppm	0.0000 ppm	-0.0020 ppm	0.0012 ppm
Concentration per Run 2	0.0291 ppm	0.0009 ppm	485.9190 ppm	0.0048 ppm	-0.0011 ppm	0.0012 ppm	0.0006 ppm
Concentration per Run 3	0.0292 ppm	0.0008 ppm	455.1781 ppm	0.0037 ppm	-0.0011 ppm	-0.0004 ppm	0.0034 ppm
Concentration RSD	4.2 %	9.3 %	5.9 %	14.5 %	92.3 %	382.8 %	86.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.2628 ppm	0.0490 ppm	0.0831 ppm	0.0014 ppm	0.0026 ppm	0.0007 ppm	0.1399 ppm
Concentration per Run 1	3.2597 ppm	0.0492 ppm	0.0796 ppm	0.0013 ppm	0.0023 ppm	0.0008 ppm	0.1400 ppm
Concentration per Run 2	3.2627 ppm	0.0486 ppm	0.0858 ppm	0.0014 ppm	0.0022 ppm	0.0004 ppm	0.1397 ppm
Concentration per Run 3	3.2661 ppm	0.0492 ppm	0.0838 ppm	0.0016 ppm	0.0033 ppm	0.0007 ppm	0.1399 ppm
Concentration RSD	0.1 %	0.7 %	3.8 %	11.2 %	23.7 %	29.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.9144 %	100.6444 %	100.5971 %	106.4945 %	96.9528 %	102.4923 %
Concentration per Run 1	108.8397 %	101.0481 %	100.9428 %	110.8410 %	96.9119 %	102.6185 %
Concentration per Run 2	100.2292 %	100.7932 %	100.2748 %	102.4020 %	97.0767 %	102.8064 %
Concentration per Run 3	102.6744 %	100.0919 %	100.5737 %	106.2404 %	96.8697 %	102.0520 %
Concentration RSD	4.3 %	0.5 %	0.3 %	4.0 %	0.1 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339907-07d2 WG1802988
 Analysis started at: 8/2/2023 4:58:14 PM
 Rack: 1
 Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	48.8111 ppm	0.0383 ppm	0.0380 ppm	0.7060 ppm	0.0053 ppm	111.7297 ppm
Concentration per Run 1	0.0004 ppm	46.3501 ppm	0.0358 ppm	0.0388 ppm	0.6710 ppm	0.0052 ppm	106.1360 ppm
Concentration per Run 2	0.0007 ppm	49.7802 ppm	0.0385 ppm	0.0373 ppm	0.7193 ppm	0.0054 ppm	113.8828 ppm
Concentration per Run 3	-0.0005 ppm	50.3029 ppm	0.0407 ppm	0.0378 ppm	0.7278 ppm	0.0054 ppm	115.1704 ppm
Concentration RSD	272.0 %	4.4 %	6.4 %	2.0 %	4.3 %	2.5 %	4.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0005 ppm	0.0915 ppm	0.0652 ppm	0.2627 ppm	44.7248 ppm	4.5599 ppm	38.5671 ppm
Concentration per Run 1	0.0006 ppm	0.0918 ppm	0.0651 ppm	0.2613 ppm	42.4972 ppm	4.3132 ppm	38.5349 ppm
Concentration per Run 2	0.0005 ppm	0.0915 ppm	0.0651 ppm	0.2642 ppm	45.5955 ppm	4.7206 ppm	38.6063 ppm
Concentration per Run 3	0.0005 ppm	0.0912 ppm	0.0656 ppm	0.2626 ppm	46.0817 ppm	4.6459 ppm	38.5601 ppm
Concentration RSD	3.0 %	0.4 %	0.5 %	0.6 %	4.3 %	4.8 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.4290 ppm	0.0104 ppm	2.2881 ppm	0.1381 ppm	3.7000 ppm	0.0066 ppm	-0.0017 ppm
Concentration per Run 1	1.3550 ppm	0.0102 ppm	2.1699 ppm	0.1380 ppm	3.7060 ppm	0.0050 ppm	-0.0011 ppm
Concentration per Run 2	1.4617 ppm	0.0105 ppm	2.3194 ppm	0.1381 ppm	3.7005 ppm	0.0066 ppm	-0.0011 ppm
Concentration per Run 3	1.4703 ppm	0.0103 ppm	2.3749 ppm	0.1382 ppm	3.6934 ppm	0.0082 ppm	-0.0029 ppm
Concentration RSD	4.5 %	1.3 %	4.6 %	0.1 %	0.2 %	24.5 %	60.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.7815 ppm	0.0330 ppm	0.9131 ppm	0.6495 ppm	-0.0011 ppm	0.1897 ppm	0.5767 ppm
Concentration per Run 1	9.7943 ppm	0.0337 ppm	0.8684 ppm	0.6475 ppm	-0.0002 ppm	0.1897 ppm	0.5786 ppm
Concentration per Run 2	9.7870 ppm	0.0330 ppm	0.9302 ppm	0.6518 ppm	-0.0019 ppm	0.1891 ppm	0.5765 ppm
Concentration per Run 3	9.7633 ppm	0.0324 ppm	0.9407 ppm	0.6492 ppm	-0.0013 ppm	0.1904 ppm	0.5750 ppm
Concentration RSD	0.2 %	2.0 %	4.3 %	0.3 %	75.6 %	0.3 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	114.7228 %	115.0285 %	113.6206 %	103.7637 %	96.3361 %	102.1561 %
Concentration per Run 1	119.7305 %	114.7818 %	113.5831 %	108.0084 %	96.0597 %	102.0694 %
Concentration per Run 2	112.6954 %	115.2239 %	113.3997 %	102.3300 %	96.3283 %	102.3873 %
Concentration per Run 3	111.7424 %	115.0799 %	113.8791 %	100.9528 %	96.6202 %	102.0115 %
Concentration RSD	3.8 %	0.2 %	0.2 %	3.6 %	0.3 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339907-09d2 WG1802988
 Analysis started at: 8/2/2023 5:02:38 PM
 Rack: 1
 Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	54.9298 ppm	0.0329 ppm	0.0225 ppm	0.3523 ppm	0.0039 ppm	24.8967 ppm
Concentration per Run 1	-0.0008 ppm	53.2011 ppm	0.0302 ppm	0.0222 ppm	0.3410 ppm	0.0038 ppm	24.1547 ppm
Concentration per Run 2	0.0001 ppm	55.6860 ppm	0.0333 ppm	0.0231 ppm	0.3573 ppm	0.0040 ppm	25.2432 ppm
Concentration per Run 3	0.0001 ppm	55.9024 ppm	0.0352 ppm	0.0223 ppm	0.3585 ppm	0.0039 ppm	25.2921 ppm
Concentration RSD	290.9 %	2.7 %	7.6 %	2.0 %	2.8 %	2.5 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0004 ppm	0.0436 ppm	0.0891 ppm	0.0737 ppm	126.5929 ppm	4.2350 ppm	20.9362 ppm
Concentration per Run 1	0.0004 ppm	0.0436 ppm	0.0888 ppm	0.0739 ppm	122.5333 ppm	4.1419 ppm	20.9399 ppm
Concentration per Run 2	0.0004 ppm	0.0437 ppm	0.0896 ppm	0.0736 ppm	128.4140 ppm	4.2859 ppm	20.9022 ppm
Concentration per Run 3	0.0004 ppm	0.0434 ppm	0.0888 ppm	0.0738 ppm	128.8314 ppm	4.2773 ppm	20.9664 ppm
Concentration RSD	5.1 %	0.3 %	0.5 %	0.2 %	2.8 %	1.9 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	5.2221 ppm	0.0006 ppm	0.8620 ppm	0.0991 ppm	0.0537 ppm	0.0087 ppm	0.0000 ppm
Concentration per Run 1	5.0629 ppm	0.0005 ppm	0.8162 ppm	0.0989 ppm	0.0552 ppm	0.0084 ppm	0.0020 ppm
Concentration per Run 2	5.2966 ppm	0.0004 ppm	0.8907 ppm	0.0994 ppm	0.0533 ppm	0.0095 ppm	-0.0004 ppm
Concentration per Run 3	5.3068 ppm	0.0007 ppm	0.8790 ppm	0.0990 ppm	0.0528 ppm	0.0081 ppm	-0.0017 ppm
Concentration RSD	2.6 %	28.8 %	4.6 %	0.3 %	2.3 %	8.2 %	8,096.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	11.3783 ppm	0.0027 ppm	0.0878 ppm	0.8181 ppm	0.0016 ppm	0.1521 ppm	0.3510 ppm
Concentration per Run 1	11.3918 ppm	0.0024 ppm	0.0850 ppm	0.8197 ppm	-0.0007 ppm	0.1524 ppm	0.3514 ppm
Concentration per Run 2	11.3754 ppm	0.0022 ppm	0.0890 ppm	0.8176 ppm	0.0023 ppm	0.1520 ppm	0.3512 ppm
Concentration per Run 3	11.3676 ppm	0.0035 ppm	0.0896 ppm	0.8169 ppm	0.0031 ppm	0.1519 ppm	0.3504 ppm
Concentration RSD	0.1 %	26.4 %	2.8 %	0.2 %	130.4 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	128.6178 %	131.7866 %	131.3109 %	103.0672 %	98.6808 %	103.4664 %
Concentration per Run 1	131.9974 %	131.8948 %	130.8841 %	106.4224 %	98.4186 %	103.5464 %
Concentration per Run 2	126.8574 %	131.8347 %	131.3374 %	101.3872 %	98.5919 %	103.5338 %
Concentration per Run 3	126.9986 %	131.6304 %	131.7112 %	101.3921 %	99.0319 %	103.3190 %
Concentration RSD	2.3 %	0.1 %	0.3 %	2.8 %	0.3 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2339965-06D10 WG1802988
 Analysis started at: 8/2/2023 5:07:04 PM
 Rack: 1
 Vial: 59

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	12.3715 ppm	0.0113 ppm	0.0080 ppm	0.0789 ppm	0.0004 ppm	239.6747 ppm
Concentration per Run 1	0.0017 ppm	11.7078 ppm	0.0118 ppm	0.0082 ppm	0.0743 ppm	0.0002 ppm	226.6270 ppm
Concentration per Run 2	-0.0006 ppm	12.6200 ppm	0.0081 ppm	0.0081 ppm	0.0805 ppm	0.0005 ppm	244.8812 ppm
Concentration per Run 3	0.0000 ppm	12.7865 ppm	0.0139 ppm	0.0078 ppm	0.0819 ppm	0.0004 ppm	247.5158 ppm
Concentration RSD	330.3 %	4.7 %	25.7 %	3.0 %	5.2 %	40.2 %	4.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0109 ppm	0.0198 ppm	0.0386 ppm	26.6319 ppm	0.9255 ppm	67.0494 ppm
Concentration per Run 1	0.0001 ppm	0.0108 ppm	0.0198 ppm	0.0387 ppm	25.1303 ppm	0.8462 ppm	67.2546 ppm
Concentration per Run 2	0.0002 ppm	0.0110 ppm	0.0193 ppm	0.0385 ppm	27.2426 ppm	0.9374 ppm	66.9741 ppm
Concentration per Run 3	0.0000 ppm	0.0110 ppm	0.0203 ppm	0.0386 ppm	27.5229 ppm	0.9929 ppm	66.9194 ppm
Concentration RSD	67.5 %	0.8 %	2.5 %	0.2 %	4.9 %	8.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0079 ppm	0.0016 ppm	0.3866 ppm	0.0245 ppm	0.0272 ppm	0.0031 ppm	-0.0033 ppm
Concentration per Run 1	0.9532 ppm	0.0016 ppm	0.3592 ppm	0.0242 ppm	0.0269 ppm	0.0036 ppm	0.0003 ppm
Concentration per Run 2	1.0297 ppm	0.0018 ppm	0.3809 ppm	0.0249 ppm	0.0270 ppm	0.0042 ppm	-0.0046 ppm
Concentration per Run 3	1.0409 ppm	0.0012 ppm	0.4196 ppm	0.0244 ppm	0.0278 ppm	0.0014 ppm	-0.0057 ppm
Concentration RSD	4.7 %	18.8 %	7.9 %	1.4 %	1.9 %	47.9 %	95.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.8494 ppm	0.0025 ppm	0.2180 ppm	0.0535 ppm	0.0007 ppm	0.0271 ppm	0.0891 ppm
Concentration per Run 1	2.8426 ppm	0.0021 ppm	0.2062 ppm	0.0540 ppm	-0.0001 ppm	0.0279 ppm	0.0888 ppm
Concentration per Run 2	2.8574 ppm	0.0025 ppm	0.2230 ppm	0.0532 ppm	0.0020 ppm	0.0271 ppm	0.0893 ppm
Concentration per Run 3	2.8481 ppm	0.0027 ppm	0.2250 ppm	0.0534 ppm	0.0001 ppm	0.0263 ppm	0.0891 ppm
Concentration RSD	0.3 %	12.7 %	4.7 %	0.9 %	172.6 %	3.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.1777 %	100.3230 %	100.1915 %	99.1864 %	91.6611 %	97.9942 %
Concentration per Run 1	103.8519 %	100.5368 %	100.1278 %	103.1565 %	91.7167 %	98.1615 %
Concentration per Run 2	98.2106 %	100.8888 %	99.8414 %	97.4163 %	91.3273 %	98.5220 %
Concentration per Run 3	98.4705 %	99.5433 %	100.6052 %	96.9864 %	91.9392 %	97.2991 %
Concentration RSD	3.2 %	0.7 %	0.4 %	3.5 %	0.3 %	0.6 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCV
 Analysis started at: 8/2/2023 5:11:30 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4989 ppm	0.5201 ppm	0.5420 ppm	0.4930 ppm	0.4675 ppm	0.5161 ppm	0.5186 ppm
Concentration per Run 1	0.4982 ppm	0.5008 ppm	0.5433 ppm	0.4927 ppm	0.4472 ppm	0.4951 ppm	0.4855 ppm
Concentration per Run 2	0.4987 ppm	0.5240 ppm	0.5426 ppm	0.4929 ppm	0.4753 ppm	0.5240 ppm	0.5437 ppm
Concentration per Run 3	0.4998 ppm	0.5355 ppm	0.5400 ppm	0.4935 ppm	0.4799 ppm	0.5293 ppm	0.5267 ppm
Recovery Percentage 1	99.786 %	104.022 %	108.390 %	98.598 %	93.494 %	103.220 %	103.723 %
Concentration RSD	0.2 %	3.4 %	0.3 %	0.1 %	3.8 %	3.6 %	5.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4721 ppm	0.5007 ppm	0.5327 ppm	0.5063 ppm	0.4968 ppm	5.0788 ppm	0.5138 ppm
Concentration per Run 1	0.4714 ppm	0.5005 ppm	0.5309 ppm	0.5047 ppm	0.4772 ppm	4.8714 ppm	0.5084 ppm
Concentration per Run 2	0.4729 ppm	0.5015 ppm	0.5330 ppm	0.5066 ppm	0.5056 ppm	5.1802 ppm	0.5159 ppm
Concentration per Run 3	0.4719 ppm	0.5000 ppm	0.5341 ppm	0.5076 ppm	0.5077 ppm	5.1847 ppm	0.5170 ppm
Recovery Percentage 1	94.416 %	100.135 %	106.539 %	101.256 %	99.362 %	101.575 %	102.755 %
Concentration RSD	0.2 %	0.1 %	0.3 %	0.3 %	3.4 %	3.5 %	0.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5127 ppm	0.4962 ppm	9.9885 ppm	0.4828 ppm	0.5100 ppm	0.4925 ppm	0.5081 ppm
Concentration per Run 1	0.4905 ppm	0.4944 ppm	9.5721 ppm	0.4823 ppm	0.5095 ppm	0.4908 ppm	0.5089 ppm
Concentration per Run 2	0.5207 ppm	0.4970 ppm	10.1851 ppm	0.4833 ppm	0.5117 ppm	0.4931 ppm	0.5089 ppm
Concentration per Run 3	0.5269 ppm	0.4970 ppm	10.2082 ppm	0.4828 ppm	0.5089 ppm	0.4937 ppm	0.5064 ppm
Recovery Percentage 1	102.538 %	99.231 %	99.885 %	96.561 %	102.009 %	98.505 %	101.613 %
Concentration RSD	3.8 %	0.3 %	3.6 %	0.1 %	0.3 %	0.3 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2144 ppm	0.5207 ppm	0.4695 ppm	0.4808 ppm	0.5319 ppm	0.5114 ppm	0.4988 ppm
Concentration per Run 1	5.2196 ppm	0.5203 ppm	0.4500 ppm	0.4783 ppm	0.5313 ppm	0.5096 ppm	0.4986 ppm
Concentration per Run 2	5.2205 ppm	0.5229 ppm	0.4775 ppm	0.4810 ppm	0.5338 ppm	0.5123 ppm	0.4991 ppm
Concentration per Run 3	5.2030 ppm	0.5189 ppm	0.4809 ppm	0.4830 ppm	0.5306 ppm	0.5124 ppm	0.4987 ppm
Recovery Percentage 1	104.288 %	104.142 %	93.895 %	96.155 %	106.378 %	102.288 %	99.757 %
Concentration RSD	0.2 %	0.4 %	3.6 %	0.5 %	0.3 %	0.3 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.8420 %	99.8945 %	100.2924 %	100.6119 %	98.4572 %	101.4441 %
Concentration per Run 1	101.1096 %	100.2380 %	100.7002 %	103.8670 %	98.7641 %	101.6588 %
Concentration per Run 2	96.1440 %	99.6314 %	100.3201 %	99.1957 %	98.3042 %	101.2406 %
Concentration per Run 3	96.2723 %	99.8141 %	99.8570 %	98.7731 %	98.3033 %	101.4330 %
Recovery Percentage 1						
Concentration RSD	2.9 %	0.3 %	0.4 %	2.8 %	0.3 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCB
 Analysis started at: 8/2/2023 5:15:51 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0008 ppm	-0.0030 ppm	0.0020 ppm	0.0013 ppm	0.0006 ppm	0.0001 ppm	-0.0016 ppm
Concentration per Run 1	0.0013 ppm	-0.0035 ppm	0.0035 ppm	0.0018 ppm	0.0000 ppm	0.0001 ppm	-0.0008 ppm
Concentration per Run 2	0.0005 ppm	-0.0014 ppm	0.0021 ppm	0.0009 ppm	0.0011 ppm	0.0002 ppm	-0.0015 ppm
Concentration per Run 3	0.0005 ppm	-0.0039 ppm	0.0003 ppm	0.0012 ppm	0.0005 ppm	0.0000 ppm	-0.0025 ppm
Recovery Percentage 1	10.834 %	-2.964 %	39.611 %	4.407 %	5.531 %	2.084 %	-1.582 %
Concentration RSD	60.2 %	45.3 %	80.8 %	32.3 %	98.9 %	67.7 %	52.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0002 ppm	0.0002 ppm	-0.0007 ppm	0.0079 ppm	0.0011 ppm	0.0068 ppm
Concentration per Run 1	0.0003 ppm	0.0001 ppm	0.0003 ppm	-0.0007 ppm	0.0063 ppm	0.0181 ppm	0.0057 ppm
Concentration per Run 2	0.0003 ppm	0.0003 ppm	0.0000 ppm	-0.0006 ppm	0.0093 ppm	-0.0548 ppm	0.0053 ppm
Concentration per Run 3	0.0004 ppm	0.0002 ppm	0.0004 ppm	-0.0007 ppm	0.0080 ppm	0.0399 ppm	0.0094 ppm
Recovery Percentage 1	7.965 %	1.015 %	2.416 %	-6.576 %	15.728 %	0.042 %	6.807 %
Concentration RSD	14.7 %	46.9 %	79.0 %	8.0 %	19.4 %	4,684.6 %	33.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0013 ppm	0.0011 ppm	0.0351 ppm	0.0004 ppm	0.0002 ppm	0.0032 ppm	0.0012 ppm
Concentration per Run 1	0.0014 ppm	0.0014 ppm	0.0304 ppm	0.0007 ppm	0.0006 ppm	0.0041 ppm	0.0000 ppm
Concentration per Run 2	0.0012 ppm	0.0008 ppm	0.0292 ppm	-0.0002 ppm	-0.0010 ppm	0.0027 ppm	0.0039 ppm
Concentration per Run 3	0.0013 ppm	0.0011 ppm	0.0458 ppm	0.0008 ppm	0.0009 ppm	0.0029 ppm	-0.0003 ppm
Recovery Percentage 1	13.103 %	2.255 %	1.756 %	1.785 %	1.880 %	6.394 %	11.927 %
Concentration RSD	5.9 %	27.5 %	26.3 %	118.5 %	532.4 %	23.4 %	197.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0066 ppm	0.0020 ppm	0.0003 ppm	0.0005 ppm	0.0003 ppm	0.0004 ppm	0.0007 ppm
Concentration per Run 1	0.0063 ppm	0.0027 ppm	0.0001 ppm	0.0008 ppm	0.0004 ppm	0.0004 ppm	0.0008 ppm
Concentration per Run 2	0.0065 ppm	0.0021 ppm	0.0004 ppm	0.0004 ppm	0.0011 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 3	0.0070 ppm	0.0013 ppm	0.0004 ppm	0.0003 ppm	-0.0006 ppm	0.0004 ppm	0.0006 ppm
Recovery Percentage 1	1.317 %	4.088 %	2.819 %	4.984 %	1.557 %	3.780 %	13.802 %
Concentration RSD	5.2 %	34.0 %	62.3 %	51.9 %	269.4 %	25.5 %	15.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.6580 %	101.4936 %	101.0785 %	98.1867 %	97.1721 %	100.5900 %
Concentration per Run 1	101.4628 %	101.0987 %	101.2239 %	101.6648 %	97.1855 %	100.2950 %
Concentration per Run 2	94.6758 %	102.5201 %	101.1302 %	95.3354 %	97.1977 %	101.4833 %
Concentration per Run 3	96.8354 %	100.8622 %	100.8813 %	97.5598 %	97.1331 %	99.9916 %
Recovery Percentage 1						
Concentration RSD	3.6 %	0.9 %	0.2 %	3.3 %	0.0 %	0.8 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCV
 Analysis started at: 8/2/2023 5:33:22 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4974 ppm	0.5184 ppm	0.5358 ppm	0.4930 ppm	0.4729 ppm	0.5109 ppm	0.5082 ppm
Concentration per Run 1	0.4978 ppm	0.4830 ppm	0.5369 ppm	0.4912 ppm	0.4522 ppm	0.4872 ppm	0.4879 ppm
Concentration per Run 2	0.4985 ppm	0.5327 ppm	0.5340 ppm	0.4929 ppm	0.4832 ppm	0.5222 ppm	0.5107 ppm
Concentration per Run 3	0.4959 ppm	0.5396 ppm	0.5365 ppm	0.4949 ppm	0.4835 ppm	0.5233 ppm	0.5260 ppm
Recovery Percentage 1	99.478 %	103.689 %	107.155 %	98.599 %	94.589 %	102.179 %	101.635 %
Concentration RSD	0.3 %	6.0 %	0.3 %	0.4 %	3.8 %	4.0 %	3.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4752 ppm	0.5012 ppm	0.5304 ppm	0.5068 ppm	0.4920 ppm	5.0921 ppm	0.5076 ppm
Concentration per Run 1	0.4744 ppm	0.5000 ppm	0.5309 ppm	0.5066 ppm	0.4689 ppm	4.9081 ppm	0.5055 ppm
Concentration per Run 2	0.4749 ppm	0.5010 ppm	0.5310 ppm	0.5072 ppm	0.4968 ppm	5.1337 ppm	0.5090 ppm
Concentration per Run 3	0.4763 ppm	0.5027 ppm	0.5294 ppm	0.5065 ppm	0.5104 ppm	5.2344 ppm	0.5083 ppm
Recovery Percentage 1	95.036 %	100.242 %	106.089 %	101.353 %	98.409 %	101.842 %	101.523 %
Concentration RSD	0.2 %	0.3 %	0.2 %	0.1 %	4.3 %	3.3 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5133 ppm	0.4948 ppm	10.0020 ppm	0.4864 ppm	0.5101 ppm	0.4936 ppm	0.5093 ppm
Concentration per Run 1	0.4904 ppm	0.4925 ppm	9.5590 ppm	0.4853 ppm	0.5082 ppm	0.4900 ppm	0.5090 ppm
Concentration per Run 2	0.5237 ppm	0.4950 ppm	10.2086 ppm	0.4869 ppm	0.5104 ppm	0.4925 ppm	0.5104 ppm
Concentration per Run 3	0.5258 ppm	0.4970 ppm	10.2384 ppm	0.4872 ppm	0.5117 ppm	0.4981 ppm	0.5085 ppm
Recovery Percentage 1	102.662 %	98.963 %	100.020 %	97.289 %	102.024 %	98.711 %	101.855 %
Concentration RSD	3.9 %	0.5 %	3.8 %	0.2 %	0.3 %	0.8 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2147 ppm	0.5176 ppm	0.4713 ppm	0.4771 ppm	0.5313 ppm	0.5064 ppm	0.4999 ppm
Concentration per Run 1	5.2013 ppm	0.5157 ppm	0.4499 ppm	0.4773 ppm	0.5289 ppm	0.5068 ppm	0.4993 ppm
Concentration per Run 2	5.2108 ppm	0.5173 ppm	0.4817 ppm	0.4771 ppm	0.5311 ppm	0.5057 ppm	0.4994 ppm
Concentration per Run 3	5.2318 ppm	0.5199 ppm	0.4824 ppm	0.4769 ppm	0.5340 ppm	0.5068 ppm	0.5010 ppm
Recovery Percentage 1	104.293 %	103.521 %	94.269 %	95.424 %	106.267 %	101.288 %	99.977 %
Concentration RSD	0.3 %	0.4 %	3.9 %	0.0 %	0.5 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.2629 %	99.8378 %	99.5876 %	100.0950 %	98.0893 %	102.0227 %
Concentration per Run 1	101.6982 %	99.2940 %	99.8389 %	104.5787 %	98.3027 %	101.4844 %
Concentration per Run 2	94.7362 %	100.2487 %	99.6847 %	97.7353 %	98.1439 %	102.4587 %
Concentration per Run 3	95.3542 %	99.9706 %	99.2393 %	97.9709 %	97.8214 %	102.1251 %
Recovery Percentage 1						
Concentration RSD	4.0 %	0.5 %	0.3 %	3.9 %	0.3 %	0.5 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCB
 Analysis started at: 8/2/2023 5:37:43 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	-0.0068 ppm	0.0027 ppm	0.0013 ppm	0.0003 ppm	0.0002 ppm	0.0100 ppm
Concentration per Run 1	0.0003 ppm	0.0101 ppm	0.0042 ppm	0.0011 ppm	0.0000 ppm	0.0002 ppm	0.0035 ppm
Concentration per Run 2	0.0001 ppm	-0.0241 ppm	0.0023 ppm	0.0010 ppm	0.0002 ppm	0.0002 ppm	0.0130 ppm
Concentration per Run 3	0.0004 ppm	-0.0063 ppm	0.0016 ppm	0.0017 ppm	0.0006 ppm	0.0002 ppm	0.0136 ppm
Recovery Percentage 1	3.697 %	-6.757 %	53.570 %	4.177 %	2.867 %	3.500 %	10.024 %
Concentration RSD	77.0 %	253.2 %	49.4 %	31.2 %	99.0 %	6.2 %	56.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0002 ppm	0.0002 ppm	-0.0008 ppm	0.0057 ppm	0.0593 ppm	0.0060 ppm
Concentration per Run 1	0.0004 ppm	0.0003 ppm	0.0003 ppm	-0.0012 ppm	0.0060 ppm	0.0802 ppm	0.0069 ppm
Concentration per Run 2	0.0004 ppm	0.0004 ppm	0.0003 ppm	-0.0007 ppm	0.0047 ppm	0.0771 ppm	0.0067 ppm
Concentration per Run 3	0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	0.0064 ppm	0.0207 ppm	0.0046 ppm
Recovery Percentage 1	8.401 %	1.111 %	1.566 %	-8.427 %	11.426 %	2.373 %	6.046 %
Concentration RSD	31.7 %	76.5 %	130.1 %	38.5 %	15.3 %	56.5 %	21.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0013 ppm	0.0013 ppm	0.0097 ppm	0.0006 ppm	0.0005 ppm	0.0021 ppm	0.0039 ppm
Concentration per Run 1	0.0013 ppm	0.0015 ppm	0.0218 ppm	0.0010 ppm	0.0002 ppm	0.0020 ppm	0.0027 ppm
Concentration per Run 2	0.0014 ppm	0.0016 ppm	-0.0053 ppm	0.0009 ppm	0.0007 ppm	0.0026 ppm	0.0055 ppm
Concentration per Run 3	0.0012 ppm	0.0008 ppm	0.0125 ppm	0.0000 ppm	0.0006 ppm	0.0016 ppm	0.0034 ppm
Recovery Percentage 1	13.403 %	2.605 %	0.483 %	2.458 %	4.805 %	4.139 %	38.828 %
Concentration RSD	7.5 %	35.8 %	142.3 %	91.6 %	53.3 %	26.3 %	36.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0051 ppm	0.0027 ppm	0.0004 ppm	0.0007 ppm	-0.0004 ppm	0.0005 ppm	0.0005 ppm
Concentration per Run 1	0.0056 ppm	0.0034 ppm	0.0004 ppm	0.0003 ppm	-0.0022 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 2	0.0051 ppm	0.0027 ppm	0.0004 ppm	0.0012 ppm	0.0015 ppm	0.0007 ppm	0.0006 ppm
Concentration per Run 3	0.0048 ppm	0.0020 ppm	0.0004 ppm	0.0006 ppm	-0.0005 ppm	0.0003 ppm	0.0005 ppm
Recovery Percentage 1	1.028 %	5.412 %	3.999 %	7.159 %	-2.017 %	5.240 %	10.717 %
Concentration RSD	8.0 %	26.6 %	3.4 %	67.0 %	455.1 %	37.1 %	12.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.7510 %	101.8345 %	101.3379 %	98.4449 %	97.5091 %	101.1992 %
Concentration per Run 1	101.4719 %	101.7161 %	101.4066 %	101.7723 %	97.5037 %	101.1091 %
Concentration per Run 2	96.1185 %	102.0966 %	101.3162 %	96.8694 %	97.5934 %	101.4685 %
Concentration per Run 3	95.6627 %	101.6909 %	101.2909 %	96.6930 %	97.4302 %	101.0201 %
Recovery Percentage 1						
Concentration RSD	3.3 %	0.2 %	0.1 %	2.9 %	0.1 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: Blank CEY Trace6
 Analysis started at: 8/2/2023 5:47:02 PM
 Rack: 0
 Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.1 %	-1.1 %	-1.4 %	0.0 %	0.0 %	5.8 %	18.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-84.0 %	0.1 %	-0.2 %	0.1 %	-6.2 %	0.2 %	-0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	4.3 %	0.4 %	-0.2 %	0.0 %	-0.1 %	0.1 %	-0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.0 %	0.1 %	-0.2 %	-0.2 %	-0.1 %	-0.1 %	-0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICAL
 Analysis started at: 8/2/2023 5:51:33 PM
 Rack: 0
 Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0029 ppm	22.9574 ppm	1.0002 ppm	0.9991 ppm	0.9180 ppm	0.9178 ppm	9.2056 ppm
Concentration per Run 2	0.9976 ppm	25.6987 ppm	0.9931 ppm	0.9955 ppm	1.0274 ppm	1.0277 ppm	10.2722 ppm
Concentration per Run 3	0.9995 ppm	26.3439 ppm	1.0068 ppm	1.0053 ppm	1.0546 ppm	1.0544 ppm	10.5222 ppm
Concentration RSD	0.3 %	7.2 %	0.7 %	0.5 %	7.2 %	7.2 %	7.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9995 ppm	1.0005 ppm	1.0019 ppm	1.0031 ppm	22.8969 ppm	32.2322 ppm	10.0279 ppm
Concentration per Run 2	0.9963 ppm	0.9952 ppm	0.9965 ppm	0.9972 ppm	25.7459 ppm	35.9252 ppm	9.9659 ppm
Concentration per Run 3	1.0041 ppm	1.0043 ppm	1.0017 ppm	0.9997 ppm	26.3571 ppm	36.8426 ppm	10.0062 ppm
Concentration RSD	0.4 %	0.5 %	0.3 %	0.3 %	7.4 %	7.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9212 ppm	0.9994 ppm	23.0418 ppm	1.0005 ppm	1.0012 ppm	0.9988 ppm	0.9994 ppm
Concentration per Run 2	1.0269 ppm	0.9963 ppm	25.6529 ppm	0.9962 ppm	0.9940 ppm	0.9977 ppm	0.9965 ppm
Concentration per Run 3	1.0519 ppm	1.0043 ppm	26.3053 ppm	1.0033 ppm	1.0048 ppm	1.0035 ppm	1.0041 ppm
Concentration RSD	6.9 %	0.4 %	6.9 %	0.4 %	0.5 %	0.3 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9940 ppm	0.9974 ppm	0.9175 ppm	1.0020 ppm	1.0017 ppm	1.0034 ppm	0.9986 ppm
Concentration per Run 2	9.9663 ppm	0.9968 ppm	1.0285 ppm	0.9980 ppm	0.9942 ppm	0.9964 ppm	0.9961 ppm
Concentration per Run 3	10.0398 ppm	1.0059 ppm	1.0540 ppm	1.0000 ppm	1.0041 ppm	1.0002 ppm	1.0053 ppm
Concentration RSD	0.4 %	0.5 %	7.3 %	0.2 %	0.5 %	0.4 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.4470 %	97.2822 %	95.8841 %	103.8666 %	97.2439 %	99.1057 %
Concentration per Run 1	109.0657 %	96.8938 %	96.5962 %	111.2213 %	97.5430 %	98.9859 %
Concentration per Run 2	98.5851 %	97.2982 %	95.8083 %	101.4645 %	97.6724 %	99.0750 %
Concentration per Run 3	96.6903 %	97.6545 %	95.2477 %	98.9142 %	96.5163 %	99.2562 %
Concentration RSD	6.6 %	0.4 %	0.7 %	6.3 %	0.7 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICV
 Analysis started at: 8/2/2023 5:55:47 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5152 ppm	0.5483 ppm	0.5067 ppm	0.5025 ppm	0.5209 ppm	0.5230 ppm	0.5414 ppm
Concentration per Run 1	0.5148 ppm	0.5245 ppm	0.5072 ppm	0.5024 ppm	0.4929 ppm	0.5301 ppm	0.5301 ppm
Concentration per Run 2	0.5149 ppm	0.5422 ppm	0.5054 ppm	0.5007 ppm	0.5313 ppm	0.5319 ppm	0.5451 ppm
Concentration per Run 3	0.5158 ppm	0.5783 ppm	0.5075 ppm	0.5043 ppm	0.5386 ppm	0.5413 ppm	0.5490 ppm
Recovery Percentage 1	103.033 %	109.668 %	101.340 %	100.491 %	104.184 %	104.598 %	108.277 %
Concentration RSD	0.1 %	5.0 %	0.2 %	0.4 %	4.7 %	4.6 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5048 ppm	0.5101 ppm	0.5170 ppm	0.5161 ppm	0.5522 ppm	5.4981 ppm	0.5202 ppm
Concentration per Run 1	0.5052 ppm	0.5098 ppm	0.5174 ppm	0.5168 ppm	0.5238 ppm	5.1949 ppm	0.5194 ppm
Concentration per Run 2	0.5031 ppm	0.5090 ppm	0.5169 ppm	0.5161 ppm	0.5602 ppm	5.5605 ppm	0.5182 ppm
Concentration per Run 3	0.5060 ppm	0.5115 ppm	0.5166 ppm	0.5155 ppm	0.5724 ppm	5.7389 ppm	0.5229 ppm
Recovery Percentage 1	100.955 %	102.020 %	103.395 %	103.229 %	110.433 %	109.962 %	104.036 %
Concentration RSD	0.3 %	0.2 %	0.1 %	0.1 %	4.6 %	5.0 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5336 ppm	0.4953 ppm	10.6428 ppm	0.5138 ppm	0.5097 ppm	0.5011 ppm	0.5200 ppm
Concentration per Run 1	0.5061 ppm	0.4948 ppm	10.0808 ppm	0.5140 ppm	0.5098 ppm	0.4999 ppm	0.5171 ppm
Concentration per Run 2	0.5436 ppm	0.4944 ppm	10.8478 ppm	0.5129 ppm	0.5091 ppm	0.4992 ppm	0.5226 ppm
Concentration per Run 3	0.5511 ppm	0.4966 ppm	10.9997 ppm	0.5145 ppm	0.5103 ppm	0.5042 ppm	0.5204 ppm
Recovery Percentage 1	106.724 %	99.052 %	106.428 %	102.766 %	101.948 %	100.216 %	104.000 %
Concentration RSD	4.5 %	0.2 %	4.6 %	0.2 %	0.1 %	0.5 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2980 ppm	0.5058 ppm	0.5193 ppm	0.5018 ppm	0.5143 ppm	0.5047 ppm	0.5079 ppm
Concentration per Run 1	5.3023 ppm	0.5050 ppm	0.4927 ppm	0.5015 ppm	0.5161 ppm	0.5040 ppm	0.5085 ppm
Concentration per Run 2	5.2879 ppm	0.5044 ppm	0.5270 ppm	0.5009 ppm	0.5109 ppm	0.5056 ppm	0.5066 ppm
Concentration per Run 3	5.3039 ppm	0.5079 ppm	0.5381 ppm	0.5031 ppm	0.5160 ppm	0.5044 ppm	0.5087 ppm
Recovery Percentage 1	105.960 %	101.154 %	103.854 %	100.362 %	102.866 %	100.935 %	101.587 %
Concentration RSD	0.2 %	0.4 %	4.6 %	0.2 %	0.6 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.0162 %	98.1634 %	98.1278 %	99.9451 %	100.0837 %	99.5998 %
Concentration per Run 1	104.1350 %	97.9274 %	98.1667 %	105.0306 %	100.0286 %	99.2969 %
Concentration per Run 2	94.8424 %	98.1902 %	98.2344 %	97.8528 %	100.3957 %	99.7381 %
Concentration per Run 3	95.0712 %	98.3726 %	97.9824 %	96.9519 %	99.8269 %	99.7644 %
Recovery Percentage 1						
Concentration RSD	5.4 %	0.2 %	0.1 %	4.4 %	0.3 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICB
 Analysis started at: 8/2/2023 6:00:08 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.0182 ppm	0.0015 ppm	0.0022 ppm	0.0007 ppm	0.0004 ppm	0.0057 ppm
Concentration per Run 1	0.0003 ppm	0.0132 ppm	0.0013 ppm	0.0021 ppm	0.0003 ppm	0.0002 ppm	0.0013 ppm
Concentration per Run 2	0.0008 ppm	0.0215 ppm	0.0044 ppm	0.0024 ppm	0.0010 ppm	0.0004 ppm	0.0068 ppm
Concentration per Run 3	0.0009 ppm	0.0200 ppm	-0.0013 ppm	0.0019 ppm	0.0008 ppm	0.0005 ppm	0.0090 ppm
Recovery Percentage 1	9.226 %	18.239 %	29.464 %	7.196 %	7.062 %	7.376 %	5.730 %
Concentration RSD	50.0 %	24.2 %	192.5 %	9.9 %	49.9 %	31.7 %	69.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0004 ppm	0.0006 ppm	0.0003 ppm	0.0090 ppm	-0.0065 ppm	0.0028 ppm
Concentration per Run 1	0.0004 ppm	0.0005 ppm	0.0008 ppm	0.0001 ppm	0.0056 ppm	-0.0041 ppm	0.0047 ppm
Concentration per Run 2	0.0003 ppm	0.0003 ppm	0.0005 ppm	0.0003 ppm	0.0101 ppm	-0.0468 ppm	0.0064 ppm
Concentration per Run 3	0.0003 ppm	0.0003 ppm	0.0004 ppm	0.0007 ppm	0.0113 ppm	0.0313 ppm	-0.0029 ppm
Recovery Percentage 1	8.236 %	1.825 %	5.869 %	3.494 %	18.003 %	-0.261 %	2.755 %
Concentration RSD	24.1 %	36.5 %	35.9 %	86.1 %	33.5 %	599.6 %	179.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0007 ppm	0.0014 ppm	0.0090 ppm	0.0005 ppm	0.0011 ppm	0.0023 ppm	0.0008 ppm
Concentration per Run 1	0.0006 ppm	0.0017 ppm	0.0079 ppm	0.0002 ppm	0.0012 ppm	0.0015 ppm	0.0025 ppm
Concentration per Run 2	0.0000 ppm	0.0012 ppm	-0.0108 ppm	0.0003 ppm	0.0023 ppm	0.0037 ppm	0.0021 ppm
Concentration per Run 3	0.0014 ppm	0.0014 ppm	0.0299 ppm	0.0010 ppm	-0.0001 ppm	0.0019 ppm	-0.0023 ppm
Recovery Percentage 1	6.536 %	2.871 %	0.450 %	2.022 %	11.140 %	4.679 %	7.943 %
Concentration RSD	112.8 %	15.5 %	225.9 %	83.9 %	105.9 %	51.2 %	335.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0044 ppm	0.0026 ppm	0.0006 ppm	0.0008 ppm	0.0003 ppm	0.0013 ppm	0.0006 ppm
Concentration per Run 1	0.0047 ppm	0.0030 ppm	0.0008 ppm	0.0011 ppm	0.0004 ppm	0.0010 ppm	0.0006 ppm
Concentration per Run 2	0.0049 ppm	0.0027 ppm	0.0005 ppm	-0.0001 ppm	0.0022 ppm	0.0020 ppm	0.0006 ppm
Concentration per Run 3	0.0035 ppm	0.0022 ppm	0.0004 ppm	0.0015 ppm	-0.0018 ppm	0.0011 ppm	0.0006 ppm
Recovery Percentage 1	0.875 %	5.282 %	5.683 %	8.268 %	1.409 %	13.496 %	11.854 %
Concentration RSD	16.6 %	16.8 %	29.5 %	101.9 %	723.3 %	38.8 %	5.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.2259 %	100.0214 %	100.0925 %	99.7594 %	100.4078 %	99.1112 %
Concentration per Run 1	102.5041 %	99.9481 %	100.0312 %	101.9319 %	100.1522 %	99.1644 %
Concentration per Run 2	98.4894 %	99.9329 %	99.6903 %	98.5736 %	100.0524 %	99.0006 %
Concentration per Run 3	99.6841 %	100.1833 %	100.5559 %	98.7728 %	101.0189 %	99.1685 %
Recovery Percentage 1						
Concentration RSD	2.1 %	0.1 %	0.4 %	1.9 %	0.5 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICV
 Analysis started at: 8/2/2023 6:11:27 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5092 ppm	0.5262 ppm	0.4905 ppm	0.4955 ppm	0.5039 ppm	0.4993 ppm	0.5195 ppm
Concentration per Run 1	0.5085 ppm	0.4813 ppm	0.4900 ppm	0.4937 ppm	0.4636 ppm	0.4596 ppm	0.4758 ppm
Concentration per Run 2	0.5092 ppm	0.5597 ppm	0.4926 ppm	0.4970 ppm	0.5184 ppm	0.5148 ppm	0.5338 ppm
Concentration per Run 3	0.5098 ppm	0.5377 ppm	0.4889 ppm	0.4960 ppm	0.5296 ppm	0.5237 ppm	0.5488 ppm
Recovery Percentage 1	101.840 %	105.249 %	98.104 %	99.107 %	100.773 %	99.869 %	103.897 %
Concentration RSD	0.1 %	7.7 %	0.4 %	0.3 %	7.0 %	7.0 %	7.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5012 ppm	0.5055 ppm	0.5083 ppm	0.5117 ppm	0.5278 ppm	5.2866 ppm	0.5106 ppm
Concentration per Run 1	0.5002 ppm	0.5045 ppm	0.5073 ppm	0.5116 ppm	0.4846 ppm	4.9107 ppm	0.5077 ppm
Concentration per Run 2	0.5024 ppm	0.5069 ppm	0.5079 ppm	0.5118 ppm	0.5452 ppm	5.4113 ppm	0.5092 ppm
Concentration per Run 3	0.5010 ppm	0.5050 ppm	0.5096 ppm	0.5116 ppm	0.5538 ppm	5.5377 ppm	0.5150 ppm
Recovery Percentage 1	100.239 %	101.091 %	101.652 %	102.330 %	105.569 %	105.731 %	102.125 %
Concentration RSD	0.2 %	0.3 %	0.2 %	0.0 %	7.1 %	6.3 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5109 ppm	0.4904 ppm	10.2803 ppm	0.5102 ppm	0.5037 ppm	0.4932 ppm	0.5016 ppm
Concentration per Run 1	0.4722 ppm	0.4882 ppm	9.4742 ppm	0.5108 ppm	0.5039 ppm	0.4892 ppm	0.4975 ppm
Concentration per Run 2	0.5257 ppm	0.4921 ppm	10.5881 ppm	0.5098 ppm	0.5046 ppm	0.4965 ppm	0.5037 ppm
Concentration per Run 3	0.5349 ppm	0.4909 ppm	10.7787 ppm	0.5100 ppm	0.5027 ppm	0.4938 ppm	0.5036 ppm
Recovery Percentage 1	102.185 %	98.077 %	102.803 %	102.038 %	100.745 %	98.636 %	100.324 %
Concentration RSD	6.6 %	0.4 %	6.9 %	0.1 %	0.2 %	0.7 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2313 ppm	0.4937 ppm	0.4955 ppm	0.4974 ppm	0.5065 ppm	0.4984 ppm	0.5000 ppm
Concentration per Run 1	5.2250 ppm	0.4906 ppm	0.4559 ppm	0.4966 ppm	0.5049 ppm	0.4981 ppm	0.4986 ppm
Concentration per Run 2	5.2463 ppm	0.4965 ppm	0.5102 ppm	0.4967 ppm	0.5073 ppm	0.4978 ppm	0.5011 ppm
Concentration per Run 3	5.2226 ppm	0.4941 ppm	0.5205 ppm	0.4990 ppm	0.5074 ppm	0.4992 ppm	0.5003 ppm
Recovery Percentage 1	104.626 %	98.741 %	99.109 %	99.483 %	101.307 %	99.680 %	100.000 %
Concentration RSD	0.2 %	0.6 %	7.0 %	0.3 %	0.3 %	0.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.4788 %	98.8027 %	98.2562 %	105.5940 %	100.7389 %	100.5234 %
Concentration per Run 1	105.9530 %	98.8739 %	98.3964 %	112.2689 %	101.0786 %	100.8190 %
Concentration per Run 2	99.1699 %	98.7469 %	98.1385 %	102.4194 %	100.4397 %	100.4496 %
Concentration per Run 3	99.3136 %	98.7874 %	98.2338 %	102.0937 %	100.6986 %	100.3015 %
Recovery Percentage 1						
Concentration RSD	3.8 %	0.1 %	0.1 %	5.5 %	0.3 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICB
 Analysis started at: 8/2/2023 6:15:47 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0008 ppm	0.0141 ppm	0.0010 ppm	0.0013 ppm	0.0003 ppm	0.0005 ppm	0.0007 ppm
Concentration per Run 1	0.0009 ppm	-0.0083 ppm	0.0006 ppm	0.0017 ppm	0.0000 ppm	0.0003 ppm	-0.0067 ppm
Concentration per Run 2	0.0014 ppm	0.0236 ppm	0.0024 ppm	0.0014 ppm	0.0003 ppm	0.0006 ppm	0.0073 ppm
Concentration per Run 3	0.0002 ppm	0.0271 ppm	0.0000 ppm	0.0008 ppm	0.0006 ppm	0.0006 ppm	0.0015 ppm
Recovery Percentage 1	12.014 %	14.118 %	20.056 %	4.332 %	3.019 %	9.990 %	0.693 %
Concentration RSD	74.7 %	138.2 %	123.0 %	34.8 %	103.1 %	34.3 %	1,009.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0001 ppm	0.0003 ppm	0.0008 ppm	0.0081 ppm	0.0207 ppm	0.0030 ppm
Concentration per Run 1	0.0004 ppm	0.0001 ppm	-0.0001 ppm	0.0006 ppm	0.0023 ppm	0.0150 ppm	0.0006 ppm
Concentration per Run 2	0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0013 ppm	0.0054 ppm	0.0212 ppm	0.0041 ppm
Concentration per Run 3	0.0003 ppm	-0.0001 ppm	0.0006 ppm	0.0005 ppm	0.0167 ppm	0.0259 ppm	0.0044 ppm
Recovery Percentage 1	7.832 %	0.332 %	2.680 %	7.666 %	16.279 %	0.828 %	3.022 %
Concentration RSD	18.7 %	236.2 %	125.5 %	55.1 %	93.4 %	26.2 %	69.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0015 ppm	0.0010 ppm	0.0217 ppm	0.0002 ppm	-0.0009 ppm	0.0013 ppm	0.0069 ppm
Concentration per Run 1	0.0020 ppm	0.0013 ppm	0.0195 ppm	0.0003 ppm	0.0003 ppm	0.0015 ppm	0.0080 ppm
Concentration per Run 2	0.0013 ppm	0.0008 ppm	0.0095 ppm	0.0001 ppm	-0.0008 ppm	0.0021 ppm	0.0033 ppm
Concentration per Run 3	0.0012 ppm	0.0010 ppm	0.0362 ppm	0.0001 ppm	-0.0022 ppm	0.0003 ppm	0.0095 ppm
Recovery Percentage 1	14.883 %	2.075 %	1.087 %	0.695 %	-9.064 %	2.637 %	69.080 %
Concentration RSD	27.5 %	23.6 %	61.9 %	86.4 %	135.0 %	67.8 %	46.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0036 ppm	0.0022 ppm	0.0007 ppm	0.0005 ppm	0.0003 ppm	0.0009 ppm	0.0006 ppm
Concentration per Run 1	0.0044 ppm	0.0029 ppm	0.0008 ppm	0.0005 ppm	0.0007 ppm	0.0008 ppm	0.0007 ppm
Concentration per Run 2	0.0028 ppm	0.0022 ppm	0.0005 ppm	0.0007 ppm	-0.0007 ppm	0.0011 ppm	0.0007 ppm
Concentration per Run 3	0.0038 ppm	0.0016 ppm	0.0008 ppm	0.0004 ppm	0.0011 ppm	0.0008 ppm	0.0004 ppm
Recovery Percentage 1	0.728 %	4.445 %	7.020 %	5.376 %	1.703 %	8.968 %	11.733 %
Concentration RSD	21.7 %	29.4 %	29.4 %	34.8 %	282.6 %	16.3 %	27.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.1606 %	100.7948 %	98.3822 %	100.1818 %	98.6759 %	99.4176 %
Concentration per Run 1	106.8339 %	100.7560 %	98.7928 %	105.1411 %	98.9375 %	99.4187 %
Concentration per Run 2	98.5070 %	100.1752 %	98.6375 %	98.1828 %	99.0424 %	98.7087 %
Concentration per Run 3	98.1408 %	101.4533 %	97.7163 %	97.2216 %	98.0479 %	100.1255 %
Recovery Percentage 1						
Concentration RSD	4.9 %	0.6 %	0.6 %	4.3 %	0.6 %	0.7 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1810714-1 WG1810714
 Analysis started at: 8/2/2023 6:24:08 PM
 Rack: 2
 Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0221 ppm	0.0011 ppm	0.0010 ppm	0.0002 ppm	0.0001 ppm	0.0096 ppm
Concentration per Run 1	-0.0004 ppm	0.0244 ppm	0.0001 ppm	0.0011 ppm	0.0004 ppm	0.0001 ppm	0.0031 ppm
Concentration per Run 2	0.0009 ppm	0.0225 ppm	0.0027 ppm	0.0006 ppm	0.0005 ppm	0.0000 ppm	0.0103 ppm
Concentration per Run 3	0.0003 ppm	0.0194 ppm	0.0005 ppm	0.0014 ppm	-0.0003 ppm	0.0002 ppm	0.0152 ppm
Concentration RSD	218.0 %	11.3 %	128.6 %	39.6 %	185.5 %	104.8 %	63.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0005 ppm	0.0040 ppm	0.0835 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0005 ppm	0.0029 ppm	0.0797 ppm	0.0016 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0005 ppm	0.0036 ppm	0.0614 ppm	-0.0022 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0004 ppm	0.0055 ppm	0.1093 ppm	0.0027 ppm
Concentration RSD	134.4 %	125.5 %	28.9 %	16.4 %	32.5 %	29.0 %	377.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0008 ppm	0.0000 ppm	0.1718 ppm	0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0041 ppm
Concentration per Run 1	0.0010 ppm	0.0002 ppm	0.1400 ppm	0.0003 ppm	0.0005 ppm	0.0018 ppm	0.0034 ppm
Concentration per Run 2	0.0002 ppm	-0.0002 ppm	0.1843 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0045 ppm
Concentration per Run 3	0.0013 ppm	0.0001 ppm	0.1911 ppm	0.0002 ppm	0.0000 ppm	-0.0003 ppm	0.0045 ppm
Concentration RSD	71.9 %	659.0 %	16.1 %	39.7 %	127.9 %	205.5 %	15.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0011 ppm	0.0026 ppm	0.0005 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 1	0.0025 ppm	0.0036 ppm	0.0007 ppm	-0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 2	0.0005 ppm	0.0019 ppm	0.0005 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 3	0.0003 ppm	0.0022 ppm	0.0004 ppm	0.0001 ppm	-0.0010 ppm	0.0004 ppm	0.0008 ppm
Concentration RSD	113.8 %	35.2 %	20.0 %	522.1 %	1,590.9 %	152.2 %	15.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.7042 %	99.7674 %	98.9026 %	103.4014 %	100.0988 %	99.7831 %
Concentration per Run 1	104.0551 %	99.9165 %	98.8526 %	108.5939 %	100.0712 %	100.1758 %
Concentration per Run 2	98.8159 %	99.4581 %	98.9835 %	101.6172 %	99.8978 %	99.4097 %
Concentration per Run 3	99.2414 %	99.9277 %	98.8717 %	99.9933 %	100.3273 %	99.7639 %
Concentration RSD	2.9 %	0.3 %	0.1 %	4.4 %	0.2 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1810714-2 WG1810714
 Analysis started at: 8/2/2023 6:28:40 PM
 Rack: 2
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5404 ppm	51.8695 ppm	1.4720 ppm	0.8092 ppm	2.3489 ppm	0.6435 ppm	36.0558 ppm
Concentration per Run 1	0.5380 ppm	49.1422 ppm	1.4765 ppm	0.8124 ppm	2.2223 ppm	0.6089 ppm	34.1161 ppm
Concentration per Run 2	0.5420 ppm	52.9075 ppm	1.4671 ppm	0.8041 ppm	2.4006 ppm	0.6564 ppm	36.8078 ppm
Concentration per Run 3	0.5411 ppm	53.5588 ppm	1.4723 ppm	0.8111 ppm	2.4236 ppm	0.6652 ppm	37.2437 ppm
Concentration RSD	0.4 %	4.6 %	0.3 %	0.6 %	4.7 %	4.7 %	4.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.8190 ppm	0.7835 ppm	1.6195 ppm	1.1210 ppm	112.1788 ppm	15.3054 ppm	16.9829 ppm
Concentration per Run 1	1.8276 ppm	0.7864 ppm	1.6140 ppm	1.1163 ppm	106.0545 ppm	14.5190 ppm	16.9270 ppm
Concentration per Run 2	1.8104 ppm	0.7806 ppm	1.6211 ppm	1.1236 ppm	114.5473 ppm	15.5925 ppm	16.9956 ppm
Concentration per Run 3	1.8191 ppm	0.7835 ppm	1.6235 ppm	1.1231 ppm	115.9347 ppm	15.8048 ppm	17.0259 ppm
Concentration RSD	0.5 %	0.4 %	0.3 %	0.4 %	4.8 %	4.5 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.1311 ppm	1.4540 ppm	13.7233 ppm	1.3756 ppm	2.0183 ppm	1.5741 ppm	1.8145 ppm
Concentration per Run 1	2.9655 ppm	1.4571 ppm	13.0135 ppm	1.3809 ppm	2.0246 ppm	1.5785 ppm	1.8245 ppm
Concentration per Run 2	3.1936 ppm	1.4472 ppm	14.0006 ppm	1.3696 ppm	2.0119 ppm	1.5656 ppm	1.8015 ppm
Concentration per Run 3	3.2341 ppm	1.4578 ppm	14.1558 ppm	1.3764 ppm	2.0184 ppm	1.5782 ppm	1.8176 ppm
Concentration RSD	4.6 %	0.4 %	4.5 %	0.4 %	0.3 %	0.5 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.6442 ppm	1.1130 ppm	0.8872 ppm	2.8359 ppm	0.6565 ppm	1.6210 ppm	1.7760 ppm
Concentration per Run 1	9.7152 ppm	1.1174 ppm	0.8404 ppm	2.8261 ppm	0.6602 ppm	1.6148 ppm	1.7840 ppm
Concentration per Run 2	9.5330 ppm	1.1088 ppm	0.9067 ppm	2.8429 ppm	0.6515 ppm	1.6247 ppm	1.7674 ppm
Concentration per Run 3	9.6844 ppm	1.1127 ppm	0.9145 ppm	2.8388 ppm	0.6579 ppm	1.6234 ppm	1.7766 ppm
Concentration RSD	1.0 %	0.4 %	4.6 %	0.3 %	0.7 %	0.3 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	114.4407 %	110.6138 %	109.8203 %	104.8845 %	100.5062 %	100.9015 %
Concentration per Run 1	119.1389 %	110.4803 %	109.9340 %	109.6716 %	100.3322 %	100.9827 %
Concentration per Run 2	112.5839 %	110.8111 %	109.4479 %	103.1796 %	100.5718 %	101.0872 %
Concentration per Run 3	111.5994 %	110.5501 %	110.0789 %	101.8023 %	100.6145 %	100.6345 %
Concentration RSD	3.6 %	0.2 %	0.3 %	4.0 %	0.2 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1810714-3 WG1810714
 Analysis started at: 8/2/2023 6:32:55 PM
 Rack: 2
 Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5483 ppm	52.1967 ppm	1.4760 ppm	0.7990 ppm	2.2664 ppm	0.6235 ppm	36.4723 ppm
Concentration per Run 1	0.5476 ppm	48.7463 ppm	1.4722 ppm	0.7972 ppm	2.1197 ppm	0.5815 ppm	34.1101 ppm
Concentration per Run 2	0.5481 ppm	54.1693 ppm	1.4827 ppm	0.8018 ppm	2.3486 ppm	0.6474 ppm	37.8645 ppm
Concentration per Run 3	0.5491 ppm	53.6745 ppm	1.4731 ppm	0.7980 ppm	2.3308 ppm	0.6414 ppm	37.4424 ppm
Concentration RSD	0.1 %	5.7 %	0.4 %	0.3 %	5.6 %	5.8 %	5.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.6697 ppm	0.7556 ppm	1.5808 ppm	1.0900 ppm	120.0986 ppm	14.8910 ppm	17.0516 ppm
Concentration per Run 1	1.6681 ppm	0.7542 ppm	1.5753 ppm	1.0872 ppm	112.2390 ppm	13.8766 ppm	16.9922 ppm
Concentration per Run 2	1.6764 ppm	0.7585 ppm	1.5801 ppm	1.0909 ppm	124.6100 ppm	15.4446 ppm	17.0676 ppm
Concentration per Run 3	1.6646 ppm	0.7539 ppm	1.5868 ppm	1.0919 ppm	123.4468 ppm	15.3518 ppm	17.0950 ppm
Concentration RSD	0.4 %	0.3 %	0.4 %	0.2 %	5.7 %	5.9 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.0290 ppm	1.4380 ppm	13.8678 ppm	1.3076 ppm	2.0088 ppm	1.5586 ppm	1.7981 ppm
Concentration per Run 1	2.8333 ppm	1.4327 ppm	12.9518 ppm	1.3057 ppm	2.0050 ppm	1.5549 ppm	1.7958 ppm
Concentration per Run 2	3.1387 ppm	1.4423 ppm	14.3614 ppm	1.3129 ppm	2.0147 ppm	1.5636 ppm	1.8091 ppm
Concentration per Run 3	3.1149 ppm	1.4390 ppm	14.2903 ppm	1.3042 ppm	2.0066 ppm	1.5572 ppm	1.7894 ppm
Concentration RSD	5.6 %	0.3 %	5.7 %	0.4 %	0.3 %	0.3 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.3618 ppm	1.1245 ppm	0.8754 ppm	2.7902 ppm	0.6467 ppm	1.6178 ppm	1.7554 ppm
Concentration per Run 1	8.3595 ppm	1.1219 ppm	0.8188 ppm	2.7860 ppm	0.6442 ppm	1.6121 ppm	1.7530 ppm
Concentration per Run 2	8.3694 ppm	1.1270 ppm	0.9074 ppm	2.7898 ppm	0.6493 ppm	1.6182 ppm	1.7625 ppm
Concentration per Run 3	8.3564 ppm	1.1244 ppm	0.9001 ppm	2.7946 ppm	0.6466 ppm	1.6232 ppm	1.7506 ppm
Concentration RSD	0.1 %	0.2 %	5.6 %	0.2 %	0.4 %	0.3 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	114.2613 %	111.0924 %	109.0205 %	104.3266 %	99.4074 %	100.6330 %
Concentration per Run 1	120.4833 %	111.4895 %	108.9427 %	110.9186 %	99.4469 %	101.0632 %
Concentration per Run 2	110.1198 %	111.3986 %	108.6577 %	100.1737 %	98.9599 %	100.8288 %
Concentration per Run 3	112.1807 %	110.3890 %	109.4613 %	101.8874 %	99.8153 %	100.0069 %
Concentration RSD	4.8 %	0.5 %	0.4 %	5.5 %	0.4 %	0.6 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2344051-01 WG1810714
 Analysis started at: 8/2/2023 6:37:09 PM
 Rack: 2
 Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	62.5553 ppm	0.0688 ppm	0.0201 ppm	0.1826 ppm	0.0046 ppm	1.9429 ppm
Concentration per Run 1	-0.0003 ppm	60.9125 ppm	0.0661 ppm	0.0198 ppm	0.1775 ppm	0.0046 ppm	1.8914 ppm
Concentration per Run 2	-0.0007 ppm	63.2897 ppm	0.0721 ppm	0.0201 ppm	0.1844 ppm	0.0046 ppm	1.9636 ppm
Concentration per Run 3	-0.0003 ppm	63.4637 ppm	0.0683 ppm	0.0205 ppm	0.1859 ppm	0.0047 ppm	1.9738 ppm
Concentration RSD	47.3 %	2.3 %	4.4 %	1.8 %	2.5 %	0.5 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0002 ppm	0.0246 ppm	0.0739 ppm	0.0754 ppm	92.5835 ppm	4.1367 ppm	10.7918 ppm
Concentration per Run 1	-0.0002 ppm	0.0246 ppm	0.0741 ppm	0.0752 ppm	90.0182 ppm	4.0299 ppm	10.7962 ppm
Concentration per Run 2	-0.0002 ppm	0.0246 ppm	0.0734 ppm	0.0757 ppm	93.6037 ppm	4.1433 ppm	10.8091 ppm
Concentration per Run 3	-0.0002 ppm	0.0246 ppm	0.0741 ppm	0.0752 ppm	94.1286 ppm	4.2367 ppm	10.7701 ppm
Concentration RSD	16.3 %	0.1 %	0.5 %	0.4 %	2.4 %	2.5 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.8619 ppm	0.0081 ppm	0.4268 ppm	0.0617 ppm	0.1592 ppm	0.0116 ppm	0.0063 ppm
Concentration per Run 1	0.8381 ppm	0.0087 ppm	0.4118 ppm	0.0618 ppm	0.1599 ppm	0.0122 ppm	0.0066 ppm
Concentration per Run 2	0.8720 ppm	0.0082 ppm	0.4283 ppm	0.0621 ppm	0.1600 ppm	0.0132 ppm	0.0062 ppm
Concentration per Run 3	0.8757 ppm	0.0076 ppm	0.4403 ppm	0.0612 ppm	0.1576 ppm	0.0093 ppm	0.0059 ppm
Concentration RSD	2.4 %	6.6 %	3.4 %	0.7 %	0.8 %	17.8 %	5.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.2760 ppm	0.0049 ppm	0.0344 ppm	1.6404 ppm	-0.0003 ppm	0.1353 ppm	0.1753 ppm
Concentration per Run 1	9.3241 ppm	0.0055 ppm	0.0333 ppm	1.6327 ppm	0.0000 ppm	0.1350 ppm	0.1756 ppm
Concentration per Run 2	9.2457 ppm	0.0045 ppm	0.0350 ppm	1.6394 ppm	0.0002 ppm	0.1356 ppm	0.1750 ppm
Concentration per Run 3	9.2582 ppm	0.0048 ppm	0.0350 ppm	1.6492 ppm	-0.0012 ppm	0.1353 ppm	0.1752 ppm
Concentration RSD	0.5 %	11.2 %	2.9 %	0.5 %	237.5 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	112.5010 %	110.3703 %	110.4238 %	105.2343 %	102.5016 %	102.8850 %
Concentration per Run 1	114.7443 %	109.8362 %	110.5854 %	107.8391 %	102.4390 %	102.4928 %
Concentration per Run 2	112.3579 %	110.5387 %	110.3876 %	104.5681 %	102.7371 %	102.9902 %
Concentration per Run 3	110.4008 %	110.7358 %	110.2985 %	103.2957 %	102.3286 %	103.1718 %
Concentration RSD	1.9 %	0.4 %	0.1 %	2.2 %	0.2 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2344055-01 WG1810714
 Analysis started at: 8/2/2023 6:41:34 PM
 Rack: 2
 Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0048 ppm	61.8560 ppm	0.0474 ppm	0.0250 ppm	0.3756 ppm	0.0130 ppm	21.8572 ppm
Concentration per Run 1	-0.0041 ppm	59.0187 ppm	0.0459 ppm	0.0254 ppm	0.3586 ppm	0.0125 ppm	20.8845 ppm
Concentration per Run 2	-0.0052 ppm	63.1920 ppm	0.0476 ppm	0.0253 ppm	0.3839 ppm	0.0131 ppm	22.3460 ppm
Concentration per Run 3	-0.0051 ppm	63.3573 ppm	0.0487 ppm	0.0242 ppm	0.3842 ppm	0.0133 ppm	22.3412 ppm
Concentration RSD	12.1 %	4.0 %	3.0 %	2.8 %	3.9 %	3.2 %	3.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0795 ppm	0.1151 ppm	0.1157 ppm	133.9828 ppm	8.6330 ppm	32.4442 ppm
Concentration per Run 1	0.0000 ppm	0.0794 ppm	0.1154 ppm	0.1165 ppm	127.7000 ppm	8.1898 ppm	32.5465 ppm
Concentration per Run 2	0.0000 ppm	0.0793 ppm	0.1147 ppm	0.1162 ppm	136.7738 ppm	8.8859 ppm	32.4333 ppm
Concentration per Run 3	0.0000 ppm	0.0798 ppm	0.1151 ppm	0.1145 ppm	137.4747 ppm	8.8232 ppm	32.3528 ppm
Concentration RSD	310.8 %	0.3 %	0.3 %	0.9 %	4.1 %	4.5 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.0379 ppm	0.0096 ppm	1.2464 ppm	0.0862 ppm	0.1050 ppm	0.0095 ppm	-0.0030 ppm
Concentration per Run 1	1.9450 ppm	0.0095 ppm	1.1799 ppm	0.0862 ppm	0.1043 ppm	0.0076 ppm	-0.0002 ppm
Concentration per Run 2	2.0827 ppm	0.0097 ppm	1.2939 ppm	0.0862 ppm	0.1062 ppm	0.0111 ppm	-0.0047 ppm
Concentration per Run 3	2.0859 ppm	0.0096 ppm	1.2656 ppm	0.0862 ppm	0.1044 ppm	0.0099 ppm	-0.0041 ppm
Concentration RSD	3.9 %	1.0 %	4.8 %	0.1 %	1.0 %	18.4 %	80.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2063 ppm	0.0070 ppm	0.1302 ppm	2.0581 ppm	-0.0081 ppm	0.2244 ppm	0.9251 ppm
Concentration per Run 1	5.2498 ppm	0.0069 ppm	0.1246 ppm	2.0629 ppm	-0.0078 ppm	0.2256 ppm	0.9239 ppm
Concentration per Run 2	5.1877 ppm	0.0075 ppm	0.1327 ppm	2.0588 ppm	-0.0086 ppm	0.2239 ppm	0.9240 ppm
Concentration per Run 3	5.1812 ppm	0.0067 ppm	0.1332 ppm	2.0525 ppm	-0.0078 ppm	0.2237 ppm	0.9275 ppm
Concentration RSD	0.7 %	5.5 %	3.7 %	0.3 %	5.6 %	0.5 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	187.9096 %	185.6928 %	182.7476 %	105.0939 %	100.0415 %	102.2395 %
Concentration per Run 1	192.0107 %	185.2433 %	183.0717 %	109.4383 %	100.2412 %	101.8780 %
Concentration per Run 2	186.9793 %	186.6204 %	182.5960 %	103.4537 %	99.9890 %	102.7249 %
Concentration per Run 3	184.7387 %	185.2146 %	182.5750 %	102.3897 %	99.8944 %	102.1155 %
Concentration RSD	2.0 %	0.4 %	0.2 %	3.6 %	0.2 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2344070-01 WG1810714
 Analysis started at: 8/2/2023 6:45:58 PM
 Rack: 2
 Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0012 ppm	173.6473 ppm	0.1173 ppm	0.0272 ppm	0.4798 ppm	0.0204 ppm	227.0391 ppm
Concentration per Run 1	-0.0015 ppm	168.9189 ppm	0.1221 ppm	0.0275 ppm	0.4669 ppm	0.0197 ppm	220.9549 ppm
Concentration per Run 2	-0.0010 ppm	175.7739 ppm	0.1158 ppm	0.0268 ppm	0.4854 ppm	0.0208 ppm	229.8537 ppm
Concentration per Run 3	-0.0011 ppm	176.2490 ppm	0.1139 ppm	0.0272 ppm	0.4872 ppm	0.0206 ppm	230.3086 ppm
Concentration RSD	20.9 %	2.4 %	3.6 %	1.4 %	2.3 %	2.8 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0007 ppm	0.1488 ppm	0.3630 ppm	0.8701 ppm	406.5391 ppm	27.0184 ppm	80.2826 ppm
Concentration per Run 1	-0.0007 ppm	0.1492 ppm	0.3635 ppm	0.8669 ppm	390.4299 ppm	26.3636 ppm	80.3202 ppm
Concentration per Run 2	-0.0008 ppm	0.1484 ppm	0.3639 ppm	0.8737 ppm	415.7898 ppm	27.2753 ppm	80.3821 ppm
Concentration per Run 3	-0.0007 ppm	0.1487 ppm	0.3617 ppm	0.8696 ppm	413.3976 ppm	27.4163 ppm	80.1455 ppm
Concentration RSD	12.9 %	0.3 %	0.3 %	0.4 %	3.4 %	2.1 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	6.5693 ppm	0.0118 ppm	35.2392 ppm	0.5163 ppm	0.7463 ppm	0.0329 ppm	-0.0026 ppm
Concentration per Run 1	6.3850 ppm	0.0113 ppm	34.3139 ppm	0.5165 ppm	0.7462 ppm	0.0315 ppm	-0.0017 ppm
Concentration per Run 2	6.6564 ppm	0.0121 ppm	35.6473 ppm	0.5161 ppm	0.7455 ppm	0.0327 ppm	-0.0034 ppm
Concentration per Run 3	6.6667 ppm	0.0119 ppm	35.7566 ppm	0.5162 ppm	0.7473 ppm	0.0346 ppm	-0.0026 ppm
Concentration RSD	2.4 %	3.5 %	2.3 %	0.0 %	0.1 %	4.7 %	34.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.8027 ppm	0.0440 ppm	0.3948 ppm	10.3029 ppm	0.0005 ppm	0.5644 ppm	1.2425 ppm
Concentration per Run 1	8.8543 ppm	0.0444 ppm	0.3841 ppm	10.2948 ppm	-0.0005 ppm	0.5636 ppm	1.2445 ppm
Concentration per Run 2	8.8190 ppm	0.0431 ppm	0.3995 ppm	10.3236 ppm	0.0022 ppm	0.5647 ppm	1.2414 ppm
Concentration per Run 3	8.7349 ppm	0.0446 ppm	0.4009 ppm	10.2904 ppm	-0.0003 ppm	0.5648 ppm	1.2415 ppm
Concentration RSD	0.7 %	1.9 %	2.4 %	0.2 %	337.4 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	127.3656 %	121.7242 %	120.7550 %	106.0881 %	97.0476 %	101.3468 %
Concentration per Run 1	129.5455 %	121.5651 %	120.4678 %	108.6304 %	96.8622 %	101.0728 %
Concentration per Run 2	125.6470 %	121.7545 %	120.9264 %	104.5979 %	97.1225 %	101.3993 %
Concentration per Run 3	126.9042 %	121.8530 %	120.8708 %	105.0360 %	97.1581 %	101.5682 %
Concentration RSD	1.6 %	0.1 %	0.2 %	2.1 %	0.2 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2344070-02 WG1810714
 Analysis started at: 8/2/2023 6:50:28 PM
 Rack: 2
 Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0007 ppm	79.0791 ppm	0.1350 ppm	0.0231 ppm	0.4409 ppm	0.0111 ppm	255.4381 ppm
Concentration per Run 1	-0.0007 ppm	74.9521 ppm	0.1372 ppm	0.0233 ppm	0.4187 ppm	0.0105 ppm	242.4216 ppm
Concentration per Run 2	-0.0011 ppm	80.7856 ppm	0.1309 ppm	0.0234 ppm	0.4502 ppm	0.0114 ppm	260.7914 ppm
Concentration per Run 3	-0.0003 ppm	81.4996 ppm	0.1367 ppm	0.0227 ppm	0.4539 ppm	0.0113 ppm	263.1014 ppm
Concentration RSD	58.6 %	4.5 %	2.6 %	1.5 %	4.4 %	4.7 %	4.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0063 ppm	0.0670 ppm	0.2304 ppm	0.5266 ppm	208.9534 ppm	13.2496 ppm	39.0160 ppm
Concentration per Run 1	0.0063 ppm	0.0669 ppm	0.2308 ppm	0.5291 ppm	198.0065 ppm	12.6057 ppm	39.1741 ppm
Concentration per Run 2	0.0063 ppm	0.0673 ppm	0.2302 ppm	0.5253 ppm	213.4082 ppm	13.5275 ppm	38.9610 ppm
Concentration per Run 3	0.0063 ppm	0.0667 ppm	0.2301 ppm	0.5253 ppm	215.4454 ppm	13.6157 ppm	38.9128 ppm
Concentration RSD	0.5 %	0.5 %	0.2 %	0.4 %	4.6 %	4.2 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.1212 ppm	0.0099 ppm	9.0618 ppm	0.1866 ppm	1.1440 ppm	0.0242 ppm	-0.0020 ppm
Concentration per Run 1	2.9594 ppm	0.0100 ppm	8.6134 ppm	0.1857 ppm	1.1411 ppm	0.0227 ppm	-0.0025 ppm
Concentration per Run 2	3.1884 ppm	0.0095 ppm	9.2589 ppm	0.1870 ppm	1.1455 ppm	0.0250 ppm	-0.0021 ppm
Concentration per Run 3	3.2157 ppm	0.0101 ppm	9.3130 ppm	0.1872 ppm	1.1453 ppm	0.0249 ppm	-0.0015 ppm
Concentration RSD	4.5 %	3.0 %	4.3 %	0.4 %	0.2 %	5.3 %	24.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.6493 ppm	0.0580 ppm	0.4866 ppm	3.9696 ppm	0.0007 ppm	0.3192 ppm	1.0794 ppm
Concentration per Run 1	10.6116 ppm	0.0586 ppm	0.4614 ppm	3.9887 ppm	0.0019 ppm	0.3206 ppm	1.0772 ppm
Concentration per Run 2	10.6797 ppm	0.0576 ppm	0.4966 ppm	3.9645 ppm	0.0008 ppm	0.3189 ppm	1.0793 ppm
Concentration per Run 3	10.6566 ppm	0.0578 ppm	0.5017 ppm	3.9556 ppm	-0.0005 ppm	0.3182 ppm	1.0817 ppm
Concentration RSD	0.3 %	0.9 %	4.5 %	0.4 %	167.1 %	0.4 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	119.6118 %	114.3707 %	113.6196 %	104.3312 %	96.3405 %	99.4018 %
Concentration per Run 1	124.7760 %	113.9861 %	113.0722 %	109.4119 %	96.3283 %	99.0708 %
Concentration per Run 2	116.7809 %	114.1150 %	114.0479 %	101.7269 %	96.4488 %	99.0984 %
Concentration per Run 3	117.2785 %	115.0110 %	113.7387 %	101.8548 %	96.2445 %	100.0363 %
Concentration RSD	3.7 %	0.5 %	0.4 %	4.2 %	0.1 %	0.6 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2344070-03 WG1810714
 Analysis started at: 8/2/2023 6:54:52 PM
 Rack: 2
 Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0018 ppm	174.8342 ppm	0.0850 ppm	0.0211 ppm	0.4145 ppm	0.0187 ppm	63.7052 ppm
Concentration per Run 1	-0.0017 ppm	165.7596 ppm	0.0896 ppm	0.0208 ppm	0.3925 ppm	0.0180 ppm	60.4269 ppm
Concentration per Run 2	-0.0020 ppm	179.6130 ppm	0.0866 ppm	0.0210 ppm	0.4259 ppm	0.0190 ppm	65.4444 ppm
Concentration per Run 3	-0.0016 ppm	179.1300 ppm	0.0788 ppm	0.0214 ppm	0.4250 ppm	0.0191 ppm	65.2442 ppm
Concentration RSD	12.1 %	4.5 %	6.5 %	1.3 %	4.6 %	3.3 %	4.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0016 ppm	0.1508 ppm	0.2770 ppm	0.5148 ppm	310.8830 ppm	14.6401 ppm	75.7509 ppm
Concentration per Run 1	0.0016 ppm	0.1506 ppm	0.2778 ppm	0.5150 ppm	296.4330 ppm	13.8672 ppm	75.8021 ppm
Concentration per Run 2	0.0014 ppm	0.1507 ppm	0.2762 ppm	0.5154 ppm	319.7000 ppm	14.9723 ppm	75.7249 ppm
Concentration per Run 3	0.0017 ppm	0.1511 ppm	0.2771 ppm	0.5142 ppm	316.5161 ppm	15.0810 ppm	75.7257 ppm
Concentration RSD	7.7 %	0.2 %	0.3 %	0.1 %	4.1 %	4.6 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.2732 ppm	0.0076 ppm	13.8547 ppm	0.2693 ppm	0.7596 ppm	0.0231 ppm	-0.0020 ppm
Concentration per Run 1	4.0510 ppm	0.0076 ppm	13.0925 ppm	0.2683 ppm	0.7582 ppm	0.0219 ppm	0.0017 ppm
Concentration per Run 2	4.3927 ppm	0.0077 ppm	14.2642 ppm	0.2696 ppm	0.7607 ppm	0.0256 ppm	-0.0044 ppm
Concentration per Run 3	4.3759 ppm	0.0076 ppm	14.2075 ppm	0.2698 ppm	0.7598 ppm	0.0218 ppm	-0.0032 ppm
Concentration RSD	4.5 %	0.8 %	4.8 %	0.3 %	0.2 %	9.5 %	164.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.6795 ppm	0.0193 ppm	0.2413 ppm	8.6368 ppm	-0.0009 ppm	0.5109 ppm	1.0830 ppm
Concentration per Run 1	8.6672 ppm	0.0193 ppm	0.2280 ppm	8.6381 ppm	-0.0035 ppm	0.5114 ppm	1.0826 ppm
Concentration per Run 2	8.6816 ppm	0.0187 ppm	0.2479 ppm	8.6352 ppm	0.0011 ppm	0.5107 ppm	1.0820 ppm
Concentration per Run 3	8.6897 ppm	0.0199 ppm	0.2478 ppm	8.6371 ppm	-0.0004 ppm	0.5106 ppm	1.0844 ppm
Concentration RSD	0.1 %	3.0 %	4.7 %	0.0 %	251.6 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	132.9556 %	127.2166 %	126.9326 %	107.2516 %	98.9987 %	102.3596 %
Concentration per Run 1	137.6350 %	126.9956 %	126.9033 %	112.2254 %	99.0085 %	102.2778 %
Concentration per Run 2	130.5132 %	127.2481 %	126.7396 %	104.5534 %	98.9286 %	102.2722 %
Concentration per Run 3	130.7186 %	127.4060 %	127.1549 %	104.9760 %	99.0588 %	102.5286 %
Concentration RSD	3.0 %	0.2 %	0.2 %	4.0 %	0.1 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2344070-04 WG1810714
 Analysis started at: 8/2/2023 6:59:18 PM
 Rack: 2
 Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0018 ppm	178.3842 ppm	0.1193 ppm	0.0271 ppm	0.8157 ppm	0.0178 ppm	91.7748 ppm
Concentration per Run 1	-0.0022 ppm	167.9637 ppm	0.1216 ppm	0.0282 ppm	0.7694 ppm	0.0171 ppm	86.3822 ppm
Concentration per Run 2	-0.0013 ppm	186.9116 ppm	0.1168 ppm	0.0263 ppm	0.8530 ppm	0.0187 ppm	96.1203 ppm
Concentration per Run 3	-0.0019 ppm	180.2772 ppm	0.1195 ppm	0.0268 ppm	0.8246 ppm	0.0176 ppm	92.8220 ppm
Concentration RSD	23.6 %	5.4 %	2.0 %	3.6 %	5.2 %	4.4 %	5.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0029 ppm	0.1390 ppm	0.2596 ppm	0.6128 ppm	287.4978 ppm	17.9935 ppm	60.7516 ppm
Concentration per Run 1	0.0030 ppm	0.1393 ppm	0.2635 ppm	0.6221 ppm	270.6545 ppm	16.9730 ppm	61.6501 ppm
Concentration per Run 2	0.0029 ppm	0.1392 ppm	0.2576 ppm	0.6091 ppm	301.0750 ppm	18.7847 ppm	60.2953 ppm
Concentration per Run 3	0.0029 ppm	0.1386 ppm	0.2576 ppm	0.6073 ppm	290.7640 ppm	18.2229 ppm	60.3094 ppm
Concentration RSD	1.7 %	0.2 %	1.3 %	1.3 %	5.4 %	5.2 %	1.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.7381 ppm	0.0070 ppm	14.6393 ppm	0.2526 ppm	2.1653 ppm	0.0258 ppm	-0.0004 ppm
Concentration per Run 1	4.4645 ppm	0.0071 ppm	13.8235 ppm	0.2528 ppm	2.1673 ppm	0.0225 ppm	0.0025 ppm
Concentration per Run 2	4.9631 ppm	0.0067 ppm	15.2868 ppm	0.2532 ppm	2.1682 ppm	0.0290 ppm	-0.0003 ppm
Concentration per Run 3	4.7867 ppm	0.0072 ppm	14.8075 ppm	0.2519 ppm	2.1605 ppm	0.0260 ppm	-0.0034 ppm
Concentration RSD	5.3 %	3.4 %	5.1 %	0.3 %	0.2 %	12.7 %	742.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	12.2571 ppm	0.0590 ppm	0.4690 ppm	8.0358 ppm	-0.0019 ppm	0.4611 ppm	1.2970 ppm
Concentration per Run 1	12.2530 ppm	0.0589 ppm	0.4409 ppm	8.1561 ppm	-0.0010 ppm	0.4678 ppm	1.2986 ppm
Concentration per Run 2	12.2538 ppm	0.0601 ppm	0.4918 ppm	7.9782 ppm	-0.0032 ppm	0.4569 ppm	1.2972 ppm
Concentration per Run 3	12.2646 ppm	0.0580 ppm	0.4742 ppm	7.9733 ppm	-0.0014 ppm	0.4585 ppm	1.2950 ppm
Concentration RSD	0.1 %	1.8 %	5.5 %	1.3 %	63.9 %	1.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	131.7839 %	123.0413 %	122.9800 %	110.4991 %	99.4400 %	102.6025 %
Concentration per Run 1	137.5178 %	122.1017 %	122.9053 %	116.0346 %	99.2999 %	101.5611 %
Concentration per Run 2	127.2663 %	123.6888 %	122.9104 %	105.7377 %	99.4276 %	103.2155 %
Concentration per Run 3	130.5678 %	123.3335 %	123.1243 %	109.7249 %	99.5926 %	103.0310 %
Concentration RSD	4.0 %	0.7 %	0.1 %	4.7 %	0.1 %	0.9 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2344070-05 WG1810714
 Analysis started at: 8/2/2023 7:03:39 PM
 Rack: 2
 Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	205.5964 ppm	0.1030 ppm	0.0577 ppm	1.0954 ppm	0.0226 ppm	338.1636 ppm
Concentration per Run 1	-0.0002 ppm	200.1519 ppm	0.1054 ppm	0.0579 ppm	1.0671 ppm	0.0224 ppm	329.1724 ppm
Concentration per Run 2	-0.0013 ppm	208.0395 ppm	0.1045 ppm	0.0576 ppm	1.1078 ppm	0.0230 ppm	342.2494 ppm
Concentration per Run 3	-0.0003 ppm	208.5978 ppm	0.0991 ppm	0.0574 ppm	1.1113 ppm	0.0225 ppm	343.0690 ppm
Concentration RSD	95.5 %	2.3 %	3.3 %	0.5 %	2.2 %	1.6 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0046 ppm	0.2028 ppm	0.3531 ppm	1.0447 ppm	413.1976 ppm	28.2758 ppm	89.9650 ppm
Concentration per Run 1	0.0047 ppm	0.2028 ppm	0.3522 ppm	1.0448 ppm	398.0675 ppm	27.6045 ppm	89.9923 ppm
Concentration per Run 2	0.0045 ppm	0.2025 ppm	0.3525 ppm	1.0439 ppm	425.5903 ppm	28.5523 ppm	89.9474 ppm
Concentration per Run 3	0.0047 ppm	0.2029 ppm	0.3545 ppm	1.0455 ppm	415.9350 ppm	28.6705 ppm	89.9553 ppm
Concentration RSD	3.2 %	0.1 %	0.4 %	0.1 %	3.4 %	2.1 %	0.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	7.5216 ppm	0.0122 ppm	21.8536 ppm	0.3425 ppm	1.4804 ppm	0.0394 ppm	-0.0041 ppm
Concentration per Run 1	7.3209 ppm	0.0123 ppm	21.2955 ppm	0.3416 ppm	1.4804 ppm	0.0410 ppm	-0.0058 ppm
Concentration per Run 2	7.6140 ppm	0.0127 ppm	22.1161 ppm	0.3433 ppm	1.4795 ppm	0.0385 ppm	-0.0034 ppm
Concentration per Run 3	7.6300 ppm	0.0117 ppm	22.1492 ppm	0.3426 ppm	1.4813 ppm	0.0388 ppm	-0.0031 ppm
Concentration RSD	2.3 %	3.8 %	2.2 %	0.2 %	0.1 %	3.5 %	36.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	24.2912 ppm	0.0623 ppm	1.4159 ppm	11.1894 ppm	0.0013 ppm	0.6518 ppm	1.8027 ppm
Concentration per Run 1	24.2256 ppm	0.0624 ppm	1.3780 ppm	11.2309 ppm	0.0027 ppm	0.6533 ppm	1.8008 ppm
Concentration per Run 2	24.3278 ppm	0.0615 ppm	1.4332 ppm	11.2203 ppm	0.0001 ppm	0.6504 ppm	1.8039 ppm
Concentration per Run 3	24.3202 ppm	0.0629 ppm	1.4363 ppm	11.1171 ppm	0.0011 ppm	0.6518 ppm	1.8034 ppm
Concentration RSD	0.2 %	1.1 %	2.3 %	0.6 %	99.4 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	134.5432 %	128.6002 %	127.4491 %	108.0766 %	97.7682 %	103.7876 %
Concentration per Run 1	135.9763 %	128.6587 %	127.6189 %	110.2177 %	97.8603 %	103.9729 %
Concentration per Run 2	133.0478 %	128.2208 %	127.3031 %	106.6206 %	97.6922 %	103.5736 %
Concentration per Run 3	134.6056 %	128.9211 %	127.4254 %	107.3914 %	97.7520 %	103.8163 %
Concentration RSD	1.1 %	0.3 %	0.1 %	1.8 %	0.1 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCV
 Analysis started at: 8/2/2023 7:08:10 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5209 ppm	0.5599 ppm	0.5056 ppm	0.5012 ppm	0.5276 ppm	0.5311 ppm	0.5558 ppm
Concentration per Run 1	0.5215 ppm	0.5587 ppm	0.5113 ppm	0.5058 ppm	0.5150 ppm	0.5183 ppm	0.5417 ppm
Concentration per Run 2	0.5181 ppm	0.5683 ppm	0.5021 ppm	0.4996 ppm	0.5311 ppm	0.5352 ppm	0.5653 ppm
Concentration per Run 3	0.5230 ppm	0.5525 ppm	0.5032 ppm	0.4982 ppm	0.5366 ppm	0.5397 ppm	0.5602 ppm
Recovery Percentage 1	104.173 %	111.976 %	101.114 %	100.238 %	105.511 %	106.211 %	111.151 %
Concentration RSD	0.5 %	1.4 %	1.0 %	0.8 %	2.1 %	2.1 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5001 ppm	0.5077 ppm	0.5188 ppm	0.5205 ppm	0.5799 ppm	5.5803 ppm	0.5311 ppm
Concentration per Run 1	0.5059 ppm	0.5139 ppm	0.5184 ppm	0.5206 ppm	0.5636 ppm	5.4881 ppm	0.5279 ppm
Concentration per Run 2	0.4981 ppm	0.5056 ppm	0.5173 ppm	0.5190 ppm	0.5862 ppm	5.6079 ppm	0.5262 ppm
Concentration per Run 3	0.4963 ppm	0.5035 ppm	0.5205 ppm	0.5219 ppm	0.5899 ppm	5.6449 ppm	0.5391 ppm
Recovery Percentage 1	100.015 %	101.530 %	103.751 %	104.098 %	115.980 %	111.606 %	106.214 %
Concentration RSD	1.0 %	1.1 %	0.3 %	0.3 %	2.4 %	1.5 %	1.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5413 ppm	0.4920 ppm	10.7752 ppm	0.5107 ppm	0.5064 ppm	0.4937 ppm	0.5156 ppm
Concentration per Run 1	0.5291 ppm	0.4969 ppm	10.5419 ppm	0.5164 ppm	0.5129 ppm	0.4944 ppm	0.5177 ppm
Concentration per Run 2	0.5445 ppm	0.4903 ppm	10.8786 ppm	0.5088 ppm	0.5026 ppm	0.4915 ppm	0.5150 ppm
Concentration per Run 3	0.5503 ppm	0.4889 ppm	10.9052 ppm	0.5069 ppm	0.5035 ppm	0.4951 ppm	0.5142 ppm
Recovery Percentage 1	108.261 %	98.405 %	107.752 %	102.142 %	101.272 %	98.733 %	103.127 %
Concentration RSD	2.0 %	0.9 %	1.9 %	1.0 %	1.1 %	0.4 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3678 ppm	0.5027 ppm	0.5256 ppm	0.5122 ppm	0.5137 ppm	0.5074 ppm	0.5046 ppm
Concentration per Run 1	5.4415 ppm	0.5074 ppm	0.5130 ppm	0.5126 ppm	0.5200 ppm	0.5069 ppm	0.5107 ppm
Concentration per Run 2	5.3478 ppm	0.5007 ppm	0.5297 ppm	0.5104 ppm	0.5105 ppm	0.5057 ppm	0.5020 ppm
Concentration per Run 3	5.3139 ppm	0.4999 ppm	0.5340 ppm	0.5136 ppm	0.5107 ppm	0.5096 ppm	0.5012 ppm
Recovery Percentage 1	107.355 %	100.533 %	105.117 %	102.438 %	102.747 %	101.484 %	100.925 %
Concentration RSD	1.2 %	0.8 %	2.1 %	0.3 %	1.1 %	0.4 %	1.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.5852 %	100.4077 %	99.4651 %	101.9007 %	101.6895 %	101.5671 %
Concentration per Run 1	102.8566 %	100.4668 %	97.9314 %	104.0679 %	100.1581 %	101.7896 %
Concentration per Run 2	99.8747 %	100.3746 %	100.3747 %	101.1456 %	102.5080 %	101.4457 %
Concentration per Run 3	99.0243 %	100.3816 %	100.0891 %	100.4888 %	102.4024 %	101.4660 %
Recovery Percentage 1						
Concentration RSD	2.0 %	0.1 %	1.3 %	1.9 %	1.3 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCB
 Analysis started at: 8/2/2023 7:12:31 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0155 ppm	0.0000 ppm	0.0008 ppm	-0.0001 ppm	0.0001 ppm	0.0042 ppm
Concentration per Run 1	0.0006 ppm	0.0095 ppm	0.0030 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0105 ppm
Concentration per Run 2	0.0003 ppm	0.0226 ppm	-0.0004 ppm	0.0011 ppm	-0.0002 ppm	0.0002 ppm	0.0046 ppm
Concentration per Run 3	-0.0002 ppm	0.0143 ppm	-0.0025 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0024 ppm
Recovery Percentage 1	3.174 %	15.472 %	0.538 %	2.682 %	-1.045 %	2.430 %	4.206 %
Concentration RSD	163.7 %	42.7 %	10,192.9 %	43.4 %	121.8 %	85.4 %	153.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0069 ppm	-0.0079 ppm	0.0016 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0029 ppm	0.0098 ppm	0.0035 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0001 ppm	0.0106 ppm	-0.0441 ppm	-0.0020 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0008 ppm	0.0073 ppm	0.0106 ppm	0.0032 ppm
Recovery Percentage 1	1.499 %	0.353 %	2.421 %	4.475 %	13.852 %	-0.317 %	1.568 %
Concentration RSD	72.2 %	336.9 %	104.6 %	77.1 %	55.9 %	395.7 %	195.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0011 ppm	-0.0041 ppm	0.0003 ppm	0.0003 ppm	0.0020 ppm	0.0019 ppm
Concentration per Run 1	0.0002 ppm	0.0014 ppm	-0.0058 ppm	0.0005 ppm	-0.0005 ppm	0.0019 ppm	0.0030 ppm
Concentration per Run 2	0.0002 ppm	0.0010 ppm	-0.0111 ppm	0.0000 ppm	-0.0001 ppm	0.0021 ppm	0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0010 ppm	0.0047 ppm	0.0005 ppm	0.0015 ppm	0.0021 ppm	0.0016 ppm
Recovery Percentage 1	1.518 %	2.228 %	-0.205 %	1.305 %	3.112 %	4.057 %	19.071 %
Concentration RSD	32.2 %	22.2 %	196.7 %	97.6 %	350.6 %	4.9 %	50.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0305 ppm	0.0015 ppm	0.0003 ppm	0.0002 ppm	-0.0016 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 1	0.0340 ppm	0.0020 ppm	0.0006 ppm	0.0001 ppm	-0.0025 ppm	0.0009 ppm	0.0001 ppm
Concentration per Run 2	0.0295 ppm	0.0011 ppm	0.0001 ppm	0.0006 ppm	-0.0018 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	0.0282 ppm	0.0014 ppm	0.0002 ppm	0.0001 ppm	-0.0007 ppm	0.0008 ppm	0.0001 ppm
Recovery Percentage 1	6.109 %	2.916 %	2.973 %	2.399 %	-8.213 %	5.900 %	2.054 %
Concentration RSD	10.0 %	31.8 %	78.4 %	127.4 %	54.9 %	75.5 %	27.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.6675 %	98.5880 %	99.9389 %	101.4973 %	99.8606 %	97.8313 %
Concentration per Run 1	107.3286 %	95.7604 %	100.2867 %	106.7749 %	100.5410 %	95.2384 %
Concentration per Run 2	97.9005 %	99.5818 %	99.5719 %	98.4581 %	99.4886 %	98.5041 %
Concentration per Run 3	99.7733 %	100.4219 %	99.9581 %	99.2590 %	99.5523 %	99.7514 %
Recovery Percentage 1						
Concentration RSD	4.9 %	2.5 %	0.4 %	4.5 %	0.6 %	2.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCV
 Analysis started at: 8/2/2023 7:51:57 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5128 ppm	0.5376 ppm	0.4966 ppm	0.4996 ppm	0.5182 ppm	0.5123 ppm	0.5424 ppm
Concentration per Run 1	0.5140 ppm	0.5046 ppm	0.4984 ppm	0.5010 ppm	0.4880 ppm	0.4827 ppm	0.5125 ppm
Concentration per Run 2	0.5168 ppm	0.5533 ppm	0.4960 ppm	0.4993 ppm	0.5317 ppm	0.5258 ppm	0.5432 ppm
Concentration per Run 3	0.5078 ppm	0.5549 ppm	0.4954 ppm	0.4983 ppm	0.5349 ppm	0.5284 ppm	0.5717 ppm
Recovery Percentage 1	102.568 %	107.516 %	99.319 %	99.915 %	103.643 %	102.459 %	108.488 %
Concentration RSD	0.9 %	5.3 %	0.3 %	0.3 %	5.1 %	5.0 %	5.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5061 ppm	0.5085 ppm	0.5115 ppm	0.5158 ppm	0.5688 ppm	5.4043 ppm	0.5191 ppm
Concentration per Run 1	0.5077 ppm	0.5101 ppm	0.5120 ppm	0.5177 ppm	0.5324 ppm	5.0799 ppm	0.5210 ppm
Concentration per Run 2	0.5046 ppm	0.5069 ppm	0.5140 ppm	0.5176 ppm	0.5823 ppm	5.5520 ppm	0.5197 ppm
Concentration per Run 3	0.5058 ppm	0.5084 ppm	0.5083 ppm	0.5121 ppm	0.5917 ppm	5.5811 ppm	0.5165 ppm
Recovery Percentage 1	101.211 %	101.694 %	102.291 %	103.162 %	113.757 %	108.087 %	103.819 %
Concentration RSD	0.3 %	0.3 %	0.6 %	0.6 %	5.6 %	5.2 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5262 ppm	0.4906 ppm	10.4680 ppm	0.5160 ppm	0.5087 ppm	0.4939 ppm	0.5172 ppm
Concentration per Run 1	0.4958 ppm	0.4911 ppm	9.8514 ppm	0.5177 ppm	0.5103 ppm	0.4933 ppm	0.5193 ppm
Concentration per Run 2	0.5389 ppm	0.4893 ppm	10.7672 ppm	0.5144 ppm	0.5071 ppm	0.4908 ppm	0.5137 ppm
Concentration per Run 3	0.5441 ppm	0.4914 ppm	10.7853 ppm	0.5158 ppm	0.5088 ppm	0.4975 ppm	0.5186 ppm
Recovery Percentage 1	105.246 %	98.126 %	104.680 %	103.194 %	101.744 %	98.780 %	103.443 %
Concentration RSD	5.0 %	0.2 %	5.1 %	0.3 %	0.3 %	0.7 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3128 ppm	0.4960 ppm	0.5141 ppm	0.4983 ppm	0.5114 ppm	0.4998 ppm	0.5056 ppm
Concentration per Run 1	5.3326 ppm	0.4967 ppm	0.4847 ppm	0.5010 ppm	0.5132 ppm	0.5024 ppm	0.5075 ppm
Concentration per Run 2	5.2956 ppm	0.4953 ppm	0.5271 ppm	0.4991 ppm	0.5096 ppm	0.5013 ppm	0.5043 ppm
Concentration per Run 3	5.3103 ppm	0.4961 ppm	0.5306 ppm	0.4947 ppm	0.5115 ppm	0.4956 ppm	0.5051 ppm
Recovery Percentage 1	106.256 %	99.207 %	102.829 %	99.652 %	102.287 %	99.956 %	101.121 %
Concentration RSD	0.4 %	0.1 %	5.0 %	0.7 %	0.3 %	0.7 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.5999 %	99.7264 %	99.2848 %	103.1752 %	102.0435 %	101.6164 %
Concentration per Run 1	107.3696 %	99.3435 %	98.8724 %	108.6949 %	101.6675 %	101.2367 %
Concentration per Run 2	98.3930 %	99.5238 %	99.3035 %	100.5972 %	102.2388 %	101.3330 %
Concentration per Run 3	99.0372 %	100.3119 %	99.6786 %	100.2334 %	102.2241 %	102.2795 %
Recovery Percentage 1						
Concentration RSD	4.9 %	0.5 %	0.4 %	4.6 %	0.3 %	0.6 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCB
 Analysis started at: 8/2/2023 7:56:18 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0009 ppm	-0.0002 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0016 ppm	0.0009 ppm	0.0016 ppm	-0.0004 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 2	0.0003 ppm	0.0087 ppm	0.0008 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	-0.0048 ppm
Concentration per Run 3	0.0003 ppm	-0.0045 ppm	-0.0023 ppm	0.0009 ppm	0.0003 ppm	0.0000 ppm	0.0051 ppm
Recovery Percentage 1	2.497 %	0.855 %	-4.066 %	3.674 %	-0.740 %	-0.234 %	-0.198 %
Concentration RSD	87.4 %	813.7 %	899.2 %	43.5 %	416.4 %	285.2 %	2,524.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0012 ppm	-0.0512 ppm	0.0016 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm	-0.0012 ppm	-0.0208 ppm	0.0024 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0006 ppm	0.0003 ppm	0.0037 ppm	-0.0405 ppm	-0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0012 ppm	-0.0924 ppm	0.0031 ppm
Recovery Percentage 1	1.559 %	0.522 %	4.770 %	0.899 %	2.481 %	-2.050 %	1.574 %
Concentration RSD	89.4 %	151.4 %	21.0 %	203.3 %	196.2 %	72.2 %	130.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0009 ppm	-0.0141 ppm	0.0002 ppm	0.0003 ppm	0.0018 ppm	0.0043 ppm
Concentration per Run 1	-0.0001 ppm	0.0013 ppm	-0.0163 ppm	0.0005 ppm	0.0011 ppm	0.0017 ppm	0.0029 ppm
Concentration per Run 2	0.0002 ppm	0.0009 ppm	-0.0128 ppm	-0.0003 ppm	0.0002 ppm	0.0028 ppm	0.0060 ppm
Concentration per Run 3	0.0005 ppm	0.0007 ppm	-0.0133 ppm	0.0004 ppm	-0.0003 ppm	0.0011 ppm	0.0039 ppm
Recovery Percentage 1	1.981 %	1.889 %	-0.706 %	0.723 %	3.284 %	3.698 %	42.502 %
Concentration RSD	143.9 %	32.5 %	13.6 %	242.3 %	216.5 %	45.6 %	38.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0065 ppm	0.0023 ppm	0.0002 ppm	0.0000 ppm	-0.0007 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 1	0.0066 ppm	0.0024 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0009 ppm	0.0003 ppm
Concentration per Run 2	0.0053 ppm	0.0018 ppm	0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 3	0.0076 ppm	0.0027 ppm	0.0002 ppm	-0.0001 ppm	-0.0029 ppm	0.0008 ppm	0.0002 ppm
Recovery Percentage 1	1.298 %	4.612 %	1.864 %	0.367 %	-3.295 %	8.276 %	4.321 %
Concentration RSD	17.9 %	19.6 %	26.9 %	354.3 %	293.1 %	10.9 %	26.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.3398 %	100.4177 %	99.8699 %	102.6186 %	100.2423 %	99.7523 %
Concentration per Run 1	109.0544 %	100.0686 %	100.0044 %	108.0372 %	100.3649 %	99.3833 %
Concentration per Run 2	101.0470 %	100.4704 %	100.1103 %	100.6756 %	100.6213 %	99.8759 %
Concentration per Run 3	99.9180 %	100.7142 %	99.4950 %	99.1428 %	99.7406 %	99.9979 %
Recovery Percentage 1						
Concentration RSD	4.8 %	0.3 %	0.3 %	4.6 %	0.5 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: Blank CEY Trace6
 Analysis started at: 8/2/2023 8:24:26 PM
 Rack: 0
 Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.2 %	3.9 %	-49.6 %	0.1 %	0.1 %	-9.7 %	-0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.2 %	0.1 %	-0.2 %	0.0 %	-0.9 %	0.3 %	-0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	3.5 %	0.5 %	-0.1 %	-0.1 %	-0.2 %	0.3 %	-6.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.0 %	0.2 %	-0.4 %	-0.2 %	-0.1 %	-0.1 %	-0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICAL
 Analysis started at: 8/2/2023 8:28:57 PM
 Rack: 0
 Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0021 ppm	22.7181 ppm	1.0050 ppm	1.0032 ppm	0.9103 ppm	0.9107 ppm	9.0978 ppm
Concentration per Run 2	1.0026 ppm	25.9274 ppm	0.9957 ppm	0.9955 ppm	1.0367 ppm	1.0369 ppm	10.3821 ppm
Concentration per Run 3	0.9953 ppm	26.3546 ppm	0.9993 ppm	1.0013 ppm	1.0530 ppm	1.0524 ppm	10.5200 ppm
Concentration RSD	0.4 %	8.0 %	0.5 %	0.4 %	7.8 %	7.8 %	7.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0029 ppm	1.0023 ppm	0.9988 ppm	1.0010 ppm	22.7438 ppm	31.9296 ppm	9.9987 ppm
Concentration per Run 2	0.9972 ppm	0.9969 ppm	1.0029 ppm	1.0019 ppm	25.8886 ppm	36.2387 ppm	10.0406 ppm
Concentration per Run 3	0.9999 ppm	1.0008 ppm	0.9983 ppm	0.9971 ppm	26.3676 ppm	36.8317 ppm	9.9607 ppm
Concentration RSD	0.3 %	0.3 %	0.3 %	0.3 %	7.9 %	7.6 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9120 ppm	1.0002 ppm	22.8089 ppm	1.0021 ppm	1.0011 ppm	1.0006 ppm	1.0022 ppm
Concentration per Run 2	1.0353 ppm	0.9982 ppm	25.9113 ppm	0.9983 ppm	0.9984 ppm	0.9955 ppm	0.9988 ppm
Concentration per Run 3	1.0527 ppm	1.0017 ppm	26.2798 ppm	0.9996 ppm	1.0005 ppm	1.0039 ppm	0.9990 ppm
Concentration RSD	7.7 %	0.2 %	7.6 %	0.2 %	0.1 %	0.4 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0208 ppm	1.0003 ppm	0.9104 ppm	1.0006 ppm	1.0038 ppm	1.0004 ppm	1.0026 ppm
Concentration per Run 2	9.9737 ppm	0.9988 ppm	1.0373 ppm	1.0015 ppm	0.9957 ppm	1.0025 ppm	0.9978 ppm
Concentration per Run 3	10.0055 ppm	1.0009 ppm	1.0523 ppm	0.9979 ppm	1.0005 ppm	0.9972 ppm	0.9996 ppm
Concentration RSD	0.2 %	0.1 %	7.8 %	0.2 %	0.4 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.7937 %	97.5491 %	96.4801 %	103.7036 %	97.6728 %	99.4358 %
Concentration per Run 1	108.4709 %	97.2469 %	96.3233 %	111.6649 %	97.5589 %	99.0460 %
Concentration per Run 2	96.8625 %	97.1528 %	96.5658 %	100.1726 %	97.8954 %	99.0848 %
Concentration per Run 3	97.0478 %	98.2477 %	96.5513 %	99.2733 %	97.5642 %	100.1766 %
Concentration RSD	6.6 %	0.6 %	0.1 %	6.7 %	0.2 %	0.6 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICV
 Analysis started at: 8/2/2023 8:33:11 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5083 ppm	0.5213 ppm	0.5002 ppm	0.5001 ppm	0.5121 ppm	0.5112 ppm	0.5346 ppm
Concentration per Run 1	0.5088 ppm	0.4801 ppm	0.5011 ppm	0.4992 ppm	0.4848 ppm	0.4835 ppm	0.4985 ppm
Concentration per Run 2	0.5089 ppm	0.5402 ppm	0.4989 ppm	0.5002 ppm	0.5249 ppm	0.5232 ppm	0.5447 ppm
Concentration per Run 3	0.5072 ppm	0.5437 ppm	0.5007 ppm	0.5011 ppm	0.5266 ppm	0.5270 ppm	0.5607 ppm
Recovery Percentage 1	101.661 %	104.264 %	100.047 %	100.030 %	102.421 %	102.243 %	106.924 %
Concentration RSD	0.2 %	6.9 %	0.2 %	0.2 %	4.6 %	4.7 %	6.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5006 ppm	0.5057 ppm	0.5106 ppm	0.5128 ppm	0.5539 ppm	5.4115 ppm	0.5179 ppm
Concentration per Run 1	0.5000 ppm	0.5043 ppm	0.5117 ppm	0.5149 ppm	0.5230 ppm	5.0824 ppm	0.5153 ppm
Concentration per Run 2	0.5006 ppm	0.5055 ppm	0.5115 ppm	0.5125 ppm	0.5623 ppm	5.5576 ppm	0.5187 ppm
Concentration per Run 3	0.5013 ppm	0.5072 ppm	0.5085 ppm	0.5111 ppm	0.5763 ppm	5.5945 ppm	0.5197 ppm
Recovery Percentage 1	100.125 %	101.135 %	102.112 %	102.570 %	110.774 %	108.230 %	103.578 %
Concentration RSD	0.1 %	0.3 %	0.3 %	0.4 %	5.0 %	5.3 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5223 ppm	0.4909 ppm	10.4267 ppm	0.5102 ppm	0.5065 ppm	0.4983 ppm	0.5127 ppm
Concentration per Run 1	0.4950 ppm	0.4892 ppm	9.8821 ppm	0.5100 ppm	0.5058 ppm	0.4961 ppm	0.5122 ppm
Concentration per Run 2	0.5342 ppm	0.4910 ppm	10.6799 ppm	0.5099 ppm	0.5068 ppm	0.4964 ppm	0.5112 ppm
Concentration per Run 3	0.5377 ppm	0.4925 ppm	10.7182 ppm	0.5106 ppm	0.5068 ppm	0.5026 ppm	0.5146 ppm
Recovery Percentage 1	104.452 %	98.177 %	104.267 %	102.036 %	101.294 %	99.670 %	102.539 %
Concentration RSD	4.5 %	0.3 %	4.5 %	0.1 %	0.1 %	0.7 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2654 ppm	0.4993 ppm	0.5085 ppm	0.4958 ppm	0.5123 ppm	0.4997 ppm	0.5031 ppm
Concentration per Run 1	5.2574 ppm	0.4991 ppm	0.4802 ppm	0.4985 ppm	0.5112 ppm	0.5016 ppm	0.5023 ppm
Concentration per Run 2	5.2631 ppm	0.4983 ppm	0.5205 ppm	0.4952 ppm	0.5118 ppm	0.5003 ppm	0.5038 ppm
Concentration per Run 3	5.2759 ppm	0.5006 ppm	0.5247 ppm	0.4937 ppm	0.5140 ppm	0.4973 ppm	0.5032 ppm
Recovery Percentage 1	105.309 %	99.864 %	101.691 %	99.161 %	102.466 %	99.948 %	100.626 %
Concentration RSD	0.2 %	0.2 %	4.8 %	0.5 %	0.3 %	0.4 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.5690 %	99.9926 %	99.8160 %	101.9640 %	102.2183 %	101.8530 %
Concentration per Run 1	104.5900 %	99.4794 %	99.6515 %	107.1207 %	102.2830 %	101.4080 %
Concentration per Run 2	97.5882 %	99.8647 %	99.6583 %	99.8579 %	102.2272 %	101.8330 %
Concentration per Run 3	96.5288 %	100.6337 %	100.1383 %	98.9134 %	102.1447 %	102.3179 %
Recovery Percentage 1						
Concentration RSD	4.4 %	0.6 %	0.3 %	4.4 %	0.1 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICB
 Analysis started at: 8/2/2023 8:37:32 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	-0.0142 ppm	0.0015 ppm	0.0014 ppm	-0.0001 ppm	0.0001 ppm	0.0171 ppm
Concentration per Run 1	0.0004 ppm	-0.0105 ppm	0.0028 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0093 ppm
Concentration per Run 2	0.0005 ppm	-0.0179 ppm	0.0013 ppm	0.0018 ppm	0.0001 ppm	0.0002 ppm	0.0181 ppm
Concentration per Run 3	0.0003 ppm	-0.0143 ppm	0.0005 ppm	0.0013 ppm	-0.0005 ppm	0.0001 ppm	0.0239 ppm
Recovery Percentage 1	5.564 %	-14.207 %	30.154 %	4.664 %	-1.253 %	1.892 %	17.128 %
Concentration RSD	26.8 %	26.1 %	77.7 %	28.4 %	267.1 %	77.7 %	42.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0061 ppm	0.0078 ppm	0.0014 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0001 ppm	0.0045 ppm	-0.0202 ppm	0.0027 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	-0.0004 ppm	0.0047 ppm	0.0313 ppm	-0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0091 ppm	0.0125 ppm	0.0017 ppm
Recovery Percentage 1	0.310 %	-0.198 %	-0.422 %	-1.305 %	12.243 %	0.314 %	1.420 %
Concentration RSD	345.1 %	458.7 %	803.6 %	215.9 %	42.7 %	332.1 %	102.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	0.0015 ppm	0.0166 ppm	0.0000 ppm	0.0005 ppm	0.0036 ppm	0.0016 ppm
Concentration per Run 1	0.0008 ppm	0.0018 ppm	0.0127 ppm	-0.0001 ppm	0.0008 ppm	0.0037 ppm	0.0046 ppm
Concentration per Run 2	0.0001 ppm	0.0013 ppm	0.0263 ppm	0.0003 ppm	-0.0008 ppm	0.0055 ppm	-0.0012 ppm
Concentration per Run 3	0.0007 ppm	0.0014 ppm	0.0107 ppm	-0.0001 ppm	0.0015 ppm	0.0016 ppm	0.0016 ppm
Recovery Percentage 1	5.482 %	3.006 %	0.828 %	0.122 %	5.176 %	7.189 %	16.350 %
Concentration RSD	63.7 %	19.0 %	51.3 %	821.2 %	224.3 %	54.2 %	177.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0036 ppm	0.0023 ppm	0.0000 ppm	0.0010 ppm	0.0017 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 1	0.0034 ppm	0.0030 ppm	0.0002 ppm	0.0015 ppm	0.0014 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 2	0.0046 ppm	0.0023 ppm	-0.0001 ppm	0.0003 ppm	0.0032 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 3	0.0026 ppm	0.0016 ppm	-0.0001 ppm	0.0013 ppm	0.0005 ppm	0.0005 ppm	0.0003 ppm
Recovery Percentage 1	0.711 %	4.618 %	-0.048 %	10.278 %	8.524 %	3.171 %	7.171 %
Concentration RSD	28.5 %	31.1 %	3,982.0 %	60.2 %	81.8 %	55.4 %	21.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.2864 %	99.7925 %	100.3335 %	101.3035 %	100.4592 %	99.8457 %
Concentration per Run 1	106.0405 %	99.6536 %	99.8112 %	105.4108 %	100.1395 %	99.7793 %
Concentration per Run 2	99.4935 %	100.2127 %	100.2106 %	99.9633 %	100.4376 %	100.0830 %
Concentration per Run 3	98.3254 %	99.5113 %	100.9786 %	98.5365 %	100.8005 %	99.6747 %
Recovery Percentage 1						
Concentration RSD	4.1 %	0.4 %	0.6 %	3.6 %	0.3 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICV
 Analysis started at: 8/2/2023 8:47:13 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5075 ppm	0.5203 ppm	0.4942 ppm	0.4958 ppm	0.5108 ppm	0.5058 ppm	0.5129 ppm
Concentration per Run 1	0.5080 ppm	0.4877 ppm	0.4902 ppm	0.4956 ppm	0.4793 ppm	0.4747 ppm	0.4759 ppm
Concentration per Run 2	0.5061 ppm	0.5341 ppm	0.4959 ppm	0.4959 ppm	0.5246 ppm	0.5180 ppm	0.5322 ppm
Concentration per Run 3	0.5084 ppm	0.5393 ppm	0.4964 ppm	0.4958 ppm	0.5284 ppm	0.5247 ppm	0.5308 ppm
Recovery Percentage 1	101.506 %	104.069 %	98.837 %	99.153 %	102.151 %	101.162 %	102.588 %
Concentration RSD	0.2 %	5.5 %	0.7 %	0.0 %	5.4 %	5.4 %	6.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5012 ppm	0.5053 ppm	0.5080 ppm	0.5127 ppm	0.5358 ppm	5.3362 ppm	0.5130 ppm
Concentration per Run 1	0.5006 ppm	0.5054 ppm	0.5092 ppm	0.5141 ppm	0.5002 ppm	5.0338 ppm	0.5105 ppm
Concentration per Run 2	0.5024 ppm	0.5063 ppm	0.5071 ppm	0.5125 ppm	0.5517 ppm	5.4190 ppm	0.5164 ppm
Concentration per Run 3	0.5006 ppm	0.5043 ppm	0.5076 ppm	0.5115 ppm	0.5554 ppm	5.5560 ppm	0.5122 ppm
Recovery Percentage 1	100.240 %	101.063 %	101.592 %	102.533 %	107.151 %	106.725 %	102.604 %
Concentration RSD	0.2 %	0.2 %	0.2 %	0.3 %	5.8 %	5.1 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5168 ppm	0.4917 ppm	10.3667 ppm	0.5096 ppm	0.5042 ppm	0.4949 ppm	0.5023 ppm
Concentration per Run 1	0.4863 ppm	0.4900 ppm	9.7538 ppm	0.5090 ppm	0.5035 ppm	0.4908 ppm	0.5051 ppm
Concentration per Run 2	0.5286 ppm	0.4932 ppm	10.6055 ppm	0.5108 ppm	0.5057 ppm	0.4974 ppm	0.5007 ppm
Concentration per Run 3	0.5354 ppm	0.4919 ppm	10.7407 ppm	0.5091 ppm	0.5033 ppm	0.4965 ppm	0.5011 ppm
Recovery Percentage 1	103.355 %	98.337 %	103.667 %	101.924 %	100.833 %	98.988 %	100.456 %
Concentration RSD	5.1 %	0.3 %	5.2 %	0.2 %	0.3 %	0.7 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2498 ppm	0.4943 ppm	0.5019 ppm	0.4977 ppm	0.5093 ppm	0.4987 ppm	0.5005 ppm
Concentration per Run 1	5.2426 ppm	0.4934 ppm	0.4711 ppm	0.4989 ppm	0.5090 ppm	0.5000 ppm	0.5006 ppm
Concentration per Run 2	5.2640 ppm	0.4957 ppm	0.5143 ppm	0.4955 ppm	0.5106 ppm	0.4986 ppm	0.5011 ppm
Concentration per Run 3	5.2427 ppm	0.4939 ppm	0.5204 ppm	0.4986 ppm	0.5084 ppm	0.4975 ppm	0.4998 ppm
Recovery Percentage 1	104.996 %	98.862 %	100.379 %	99.534 %	101.863 %	99.742 %	100.099 %
Concentration RSD	0.2 %	0.2 %	5.4 %	0.4 %	0.2 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.5096 %	99.7749 %	99.8534 %	102.9888 %	102.0219 %	101.2997 %
Concentration per Run 1	105.4606 %	99.6997 %	99.7560 %	107.9189 %	102.0716 %	101.3009 %
Concentration per Run 2	97.4776 %	99.8865 %	100.1936 %	100.4872 %	102.0554 %	101.3425 %
Concentration per Run 3	98.5907 %	99.7385 %	99.6106 %	100.5604 %	101.9386 %	101.2558 %
Recovery Percentage 1						
Concentration RSD	4.3 %	0.1 %	0.3 %	4.1 %	0.1 %	0.0 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICB
 Analysis started at: 8/2/2023 8:51:34 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	-0.0026 ppm	-0.0007 ppm	0.0012 ppm	0.0001 ppm	0.0002 ppm	0.0111 ppm
Concentration per Run 1	0.0009 ppm	-0.0171 ppm	0.0008 ppm	0.0011 ppm	-0.0002 ppm	0.0001 ppm	0.0065 ppm
Concentration per Run 2	0.0005 ppm	0.0130 ppm	-0.0019 ppm	0.0013 ppm	0.0006 ppm	0.0002 ppm	0.0066 ppm
Concentration per Run 3	-0.0002 ppm	-0.0038 ppm	-0.0010 ppm	0.0011 ppm	0.0001 ppm	0.0003 ppm	0.0203 ppm
Recovery Percentage 1	5.612 %	-2.595 %	-13.492 %	3.919 %	1.392 %	4.145 %	11.118 %
Concentration RSD	143.6 %	581.4 %	204.8 %	8.7 %	281.3 %	33.2 %	71.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0072 ppm	0.0059 ppm	0.0032 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0006 ppm	0.0074 ppm	0.0109 ppm	0.0061 ppm
Concentration per Run 2	0.0002 ppm	0.0005 ppm	0.0003 ppm	0.0002 ppm	0.0080 ppm	0.0608 ppm	-0.0003 ppm
Concentration per Run 3	0.0003 ppm	-0.0001 ppm	-0.0002 ppm	0.0008 ppm	0.0061 ppm	-0.0540 ppm	0.0038 ppm
Recovery Percentage 1	5.337 %	1.026 %	1.875 %	5.230 %	14.337 %	0.236 %	3.191 %
Concentration RSD	28.7 %	159.2 %	203.4 %	62.9 %	13.7 %	975.8 %	102.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0011 ppm	0.0036 ppm	0.0004 ppm	0.0011 ppm	0.0039 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.0012 ppm	0.0052 ppm	0.0002 ppm	0.0014 ppm	0.0060 ppm	-0.0009 ppm
Concentration per Run 2	0.0006 ppm	0.0011 ppm	-0.0031 ppm	0.0004 ppm	0.0019 ppm	0.0042 ppm	0.0000 ppm
Concentration per Run 3	0.0004 ppm	0.0009 ppm	0.0086 ppm	0.0006 ppm	-0.0001 ppm	0.0014 ppm	0.0011 ppm
Recovery Percentage 1	2.891 %	2.132 %	0.179 %	1.675 %	10.666 %	7.772 %	0.810 %
Concentration RSD	133.2 %	15.5 %	168.0 %	48.6 %	99.8 %	59.9 %	1,253.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0046 ppm	0.0026 ppm	-0.0001 ppm	0.0013 ppm	0.0018 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 1	0.0042 ppm	0.0030 ppm	0.0003 ppm	0.0015 ppm	0.0025 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 2	0.0046 ppm	0.0019 ppm	-0.0006 ppm	0.0013 ppm	0.0021 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 3	0.0049 ppm	0.0029 ppm	0.0001 ppm	0.0012 ppm	0.0009 ppm	0.0000 ppm	0.0004 ppm
Recovery Percentage 1	0.919 %	5.188 %	-0.949 %	13.443 %	9.200 %	1.491 %	8.233 %
Concentration RSD	7.9 %	24.4 %	473.4 %	11.6 %	44.1 %	209.3 %	17.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.7205 %	100.8349 %	100.4092 %	100.9493 %	100.8613 %	100.0579 %
Concentration per Run 1	105.6134 %	100.9666 %	100.6069 %	105.4497 %	100.8795 %	100.1822 %
Concentration per Run 2	97.7679 %	101.2143 %	100.3870 %	98.3224 %	100.7662 %	100.3610 %
Concentration per Run 3	98.7803 %	100.3238 %	100.2337 %	99.0758 %	100.9381 %	99.6305 %
Recovery Percentage 1						
Concentration RSD	4.2 %	0.5 %	0.2 %	3.9 %	0.1 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2344136-01 WG1810714
 Analysis started at: 8/2/2023 9:04:58 PM
 Rack: 2
 Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0016 ppm	163.7302 ppm	0.5939 ppm	0.0069 ppm	0.7995 ppm	0.0196 ppm	34.8890 ppm
Concentration per Run 1	-0.0015 ppm	155.0856 ppm	0.5912 ppm	0.0070 ppm	0.7590 ppm	0.0188 ppm	33.0409 ppm
Concentration per Run 2	-0.0024 ppm	167.4715 ppm	0.5943 ppm	0.0071 ppm	0.8178 ppm	0.0199 ppm	35.6965 ppm
Concentration per Run 3	-0.0010 ppm	168.6335 ppm	0.5962 ppm	0.0067 ppm	0.8219 ppm	0.0201 ppm	35.9297 ppm
Concentration RSD	42.5 %	4.6 %	0.4 %	3.4 %	4.4 %	3.5 %	4.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0016 ppm	0.1357 ppm	0.3329 ppm	0.3215 ppm	307.4118 ppm	46.9416 ppm	75.1276 ppm
Concentration per Run 1	-0.0016 ppm	0.1354 ppm	0.3322 ppm	0.3204 ppm	288.0396 ppm	44.6096 ppm	75.0236 ppm
Concentration per Run 2	-0.0017 ppm	0.1359 ppm	0.3325 ppm	0.3225 ppm	317.8245 ppm	48.0562 ppm	75.1307 ppm
Concentration per Run 3	-0.0016 ppm	0.1356 ppm	0.3339 ppm	0.3217 ppm	316.3712 ppm	48.1590 ppm	75.2284 ppm
Concentration RSD	4.0 %	0.2 %	0.3 %	0.3 %	5.5 %	4.3 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.3761 ppm	0.0170 ppm	2.2925 ppm	0.2705 ppm	0.1600 ppm	0.0255 ppm	-0.0004 ppm
Concentration per Run 1	3.2044 ppm	0.0166 ppm	2.1451 ppm	0.2705 ppm	0.1603 ppm	0.0247 ppm	0.0016 ppm
Concentration per Run 2	3.4523 ppm	0.0170 ppm	2.3516 ppm	0.2700 ppm	0.1606 ppm	0.0239 ppm	-0.0008 ppm
Concentration per Run 3	3.4715 ppm	0.0174 ppm	2.3808 ppm	0.2710 ppm	0.1593 ppm	0.0281 ppm	-0.0021 ppm
Concentration RSD	4.4 %	2.4 %	5.6 %	0.2 %	0.4 %	8.7 %	457.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.4183 ppm	0.0094 ppm	0.2034 ppm	9.7420 ppm	0.0020 ppm	0.4459 ppm	0.4934 ppm
Concentration per Run 1	5.4008 ppm	0.0100 ppm	0.1931 ppm	9.7197 ppm	0.0031 ppm	0.4452 ppm	0.4926 ppm
Concentration per Run 2	5.4360 ppm	0.0090 ppm	0.2080 ppm	9.7417 ppm	0.0023 ppm	0.4473 ppm	0.4941 ppm
Concentration per Run 3	5.4180 ppm	0.0092 ppm	0.2091 ppm	9.7647 ppm	0.0006 ppm	0.4453 ppm	0.4937 ppm
Concentration RSD	0.3 %	5.8 %	4.4 %	0.2 %	63.5 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	130.1427 %	126.7158 %	127.8302 %	110.3443 %	103.4341 %	105.3250 %
Concentration per Run 1	132.3078 %	126.5521 %	127.6108 %	115.3981 %	103.5357 %	105.4468 %
Concentration per Run 2	129.2895 %	127.0639 %	128.0101 %	108.4109 %	103.4843 %	105.5336 %
Concentration per Run 3	128.8309 %	126.5313 %	127.8698 %	107.2238 %	103.2823 %	104.9945 %
Concentration RSD	1.5 %	0.2 %	0.2 %	4.0 %	0.1 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2344320-01 WG1810714
 Analysis started at: 8/2/2023 9:09:25 PM
 Rack: 2
 Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	143.9322 ppm	0.1906 ppm	0.0887 ppm	0.7902 ppm	0.0187 ppm	175.3469 ppm
Concentration per Run 1	0.0008 ppm	140.5097 ppm	0.1912 ppm	0.0891 ppm	0.7721 ppm	0.0183 ppm	171.2325 ppm
Concentration per Run 2	-0.0003 ppm	145.3330 ppm	0.1912 ppm	0.0885 ppm	0.7978 ppm	0.0187 ppm	177.0668 ppm
Concentration per Run 3	0.0005 ppm	145.9538 ppm	0.1895 ppm	0.0885 ppm	0.8008 ppm	0.0191 ppm	177.7415 ppm
Concentration RSD	163.9 %	2.1 %	0.5 %	0.4 %	2.0 %	2.1 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0015 ppm	0.1197 ppm	0.2966 ppm	0.9926 ppm	349.5731 ppm	24.9707 ppm	65.2072 ppm
Concentration per Run 1	0.0014 ppm	0.1194 ppm	0.2967 ppm	0.9923 ppm	341.4529 ppm	24.3512 ppm	65.2454 ppm
Concentration per Run 2	0.0015 ppm	0.1195 ppm	0.2967 ppm	0.9925 ppm	352.6397 ppm	25.2411 ppm	65.2324 ppm
Concentration per Run 3	0.0015 ppm	0.1202 ppm	0.2963 ppm	0.9930 ppm	354.6267 ppm	25.3198 ppm	65.1439 ppm
Concentration RSD	6.0 %	0.4 %	0.1 %	0.0 %	2.0 %	2.2 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	5.4255 ppm	0.0199 ppm	5.9950 ppm	0.2867 ppm	2.7704 ppm	0.0557 ppm	-0.0024 ppm
Concentration per Run 1	5.2986 ppm	0.0199 ppm	5.8471 ppm	0.2854 ppm	2.7621 ppm	0.0568 ppm	-0.0024 ppm
Concentration per Run 2	5.4795 ppm	0.0199 ppm	6.0543 ppm	0.2871 ppm	2.7679 ppm	0.0566 ppm	-0.0031 ppm
Concentration per Run 3	5.4986 ppm	0.0199 ppm	6.0837 ppm	0.2877 ppm	2.7811 ppm	0.0539 ppm	-0.0018 ppm
Concentration RSD	2.0 %	0.2 %	2.2 %	0.4 %	0.4 %	2.9 %	26.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	16.3506 ppm	0.4368 ppm	0.5416 ppm	7.2657 ppm	0.0023 ppm	0.3967 ppm	2.4069 ppm
Concentration per Run 1	16.3123 ppm	0.4355 ppm	0.5287 ppm	7.2686 ppm	0.0028 ppm	0.3964 ppm	2.4029 ppm
Concentration per Run 2	16.3022 ppm	0.4364 ppm	0.5469 ppm	7.2655 ppm	0.0021 ppm	0.3969 ppm	2.4019 ppm
Concentration per Run 3	16.4373 ppm	0.4384 ppm	0.5492 ppm	7.2629 ppm	0.0020 ppm	0.3969 ppm	2.4161 ppm
Concentration RSD	0.5 %	0.3 %	2.1 %	0.0 %	17.9 %	0.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	132.1902 %	127.8212 %	126.9425 %	106.3076 %	99.4982 %	102.7287 %
Concentration per Run 1	134.3501 %	127.9821 %	126.9820 %	108.5486 %	99.6178 %	102.8385 %
Concentration per Run 2	131.4088 %	127.3954 %	126.9821 %	105.5383 %	99.6437 %	102.3543 %
Concentration per Run 3	130.8117 %	128.0861 %	126.8634 %	104.8360 %	99.2332 %	102.9934 %
Concentration RSD	1.4 %	0.3 %	0.1 %	1.9 %	0.2 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2344352-01 WG1810714
 Analysis started at: 8/2/2023 9:13:53 PM
 Rack: 2
 Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0014 ppm	161.7281 ppm	0.1753 ppm	0.0346 ppm	2.1592 ppm	0.0177 ppm	179.7972 ppm
Concentration per Run 1	0.0006 ppm	155.8488 ppm	0.1744 ppm	0.0350 ppm	2.0795 ppm	0.0172 ppm	173.2973 ppm
Concentration per Run 2	0.0019 ppm	164.3876 ppm	0.1752 ppm	0.0345 ppm	2.1965 ppm	0.0180 ppm	182.8406 ppm
Concentration per Run 3	0.0018 ppm	164.9477 ppm	0.1763 ppm	0.0343 ppm	2.2017 ppm	0.0180 ppm	183.2537 ppm
Concentration RSD	51.8 %	3.2 %	0.5 %	1.1 %	3.2 %	2.9 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0065 ppm	0.1228 ppm	0.3048 ppm	0.6251 ppm	422.6557 ppm	14.0610 ppm	63.3322 ppm
Concentration per Run 1	0.0066 ppm	0.1226 ppm	0.3027 ppm	0.6212 ppm	403.4700 ppm	13.6276 ppm	63.0599 ppm
Concentration per Run 2	0.0066 ppm	0.1233 ppm	0.3071 ppm	0.6293 ppm	429.6283 ppm	14.3083 ppm	63.6174 ppm
Concentration per Run 3	0.0064 ppm	0.1226 ppm	0.3046 ppm	0.6250 ppm	434.8688 ppm	14.2470 ppm	63.3193 ppm
Concentration RSD	1.8 %	0.3 %	0.7 %	0.6 %	4.0 %	2.7 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	5.2954 ppm	0.0156 ppm	12.6638 ppm	0.2621 ppm	7.0745 ppm	0.0416 ppm	-0.0005 ppm
Concentration per Run 1	5.1106 ppm	0.0156 ppm	12.2389 ppm	0.2622 ppm	7.0807 ppm	0.0392 ppm	-0.0026 ppm
Concentration per Run 2	5.3792 ppm	0.0154 ppm	12.8607 ppm	0.2618 ppm	7.0725 ppm	0.0417 ppm	0.0020 ppm
Concentration per Run 3	5.3964 ppm	0.0157 ppm	12.8919 ppm	0.2622 ppm	7.0703 ppm	0.0440 ppm	-0.0008 ppm
Concentration RSD	3.0 %	1.1 %	2.9 %	0.1 %	0.1 %	5.7 %	495.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	14.6550 ppm	0.1648 ppm	0.5800 ppm	7.0198 ppm	0.0031 ppm	0.5968 ppm	2.6971 ppm
Concentration per Run 1	14.6897 ppm	0.1651 ppm	0.5596 ppm	6.9818 ppm	0.0039 ppm	0.5939 ppm	2.6997 ppm
Concentration per Run 2	14.6410 ppm	0.1634 ppm	0.5893 ppm	7.0513 ppm	0.0012 ppm	0.5987 ppm	2.6963 ppm
Concentration per Run 3	14.6343 ppm	0.1658 ppm	0.5912 ppm	7.0262 ppm	0.0041 ppm	0.5977 ppm	2.6953 ppm
Concentration RSD	0.2 %	0.8 %	3.1 %	0.5 %	54.0 %	0.4 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	131.7525 %	126.5159 %	126.5441 %	108.0943 %	100.7338 %	103.9290 %
Concentration per Run 1	134.2965 %	126.6728 %	126.6142 %	111.4053 %	100.7062 %	104.3365 %
Concentration per Run 2	130.2026 %	126.3346 %	126.8002 %	106.4948 %	100.8868 %	103.6444 %
Concentration per Run 3	130.7585 %	126.5404 %	126.2180 %	106.3827 %	100.6085 %	103.8061 %
Concentration RSD	1.7 %	0.1 %	0.2 %	2.7 %	0.1 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: I2343082-03 WG1808456
 Analysis started at: 8/2/2023 9:18:22 PM
 Rack: 2
 Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.1343 ppm	0.0084 ppm	25.3252 ppm	0.3908 ppm	0.0001 ppm	8.9338 ppm
Concentration per Run 1	-0.0009 ppm	0.1326 ppm	0.0083 ppm	25.2311 ppm	0.3799 ppm	0.0000 ppm	8.6612 ppm
Concentration per Run 2	0.0012 ppm	0.1416 ppm	0.0080 ppm	25.3426 ppm	0.3966 ppm	0.0001 ppm	9.0810 ppm
Concentration per Run 3	0.0000 ppm	0.1286 ppm	0.0088 ppm	25.4019 ppm	0.3959 ppm	0.0002 ppm	9.0592 ppm
Concentration RSD	1,345.1 %	4.9 %	5.1 %	0.3 %	2.4 %	119.5 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0059 ppm	0.0354 ppm	0.0033 ppm	0.0152 ppm	0.6348 ppm	8.4555 ppm	0.6150 ppm
Concentration per Run 1	0.0060 ppm	0.0353 ppm	0.0033 ppm	0.0147 ppm	0.6155 ppm	8.2140 ppm	0.6113 ppm
Concentration per Run 2	0.0059 ppm	0.0355 ppm	0.0027 ppm	0.0160 ppm	0.6426 ppm	8.6200 ppm	0.6195 ppm
Concentration per Run 3	0.0058 ppm	0.0355 ppm	0.0039 ppm	0.0149 ppm	0.6463 ppm	8.5325 ppm	0.6142 ppm
Concentration RSD	1.2 %	0.3 %	18.2 %	4.5 %	2.7 %	2.5 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1190 ppm	0.0043 ppm	82.1946 ppm	0.1110 ppm	0.0111 ppm	0.2281 ppm	0.0004 ppm
Concentration per Run 1	0.1161 ppm	0.0042 ppm	79.8510 ppm	0.1104 ppm	0.0115 ppm	0.2260 ppm	0.0017 ppm
Concentration per Run 2	0.1210 ppm	0.0044 ppm	83.3760 ppm	0.1113 ppm	0.0106 ppm	0.2298 ppm	0.0029 ppm
Concentration per Run 3	0.1200 ppm	0.0042 ppm	83.3569 ppm	0.1112 ppm	0.0112 ppm	0.2286 ppm	-0.0034 ppm
Concentration RSD	2.2 %	2.4 %	2.5 %	0.4 %	4.1 %	0.9 %	792.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	12.0930 ppm	0.0009 ppm	0.0582 ppm	0.0380 ppm	0.0041 ppm	0.0038 ppm	0.0432 ppm
Concentration per Run 1	12.0513 ppm	0.0009 ppm	0.0565 ppm	0.0377 ppm	0.0049 ppm	0.0037 ppm	0.0434 ppm
Concentration per Run 2	12.1038 ppm	0.0011 ppm	0.0591 ppm	0.0380 ppm	0.0038 ppm	0.0037 ppm	0.0431 ppm
Concentration per Run 3	12.1239 ppm	0.0008 ppm	0.0591 ppm	0.0384 ppm	0.0037 ppm	0.0039 ppm	0.0432 ppm
Concentration RSD	0.3 %	20.7 %	2.6 %	1.0 %	15.5 %	2.0 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.0746 %	101.5498 %	101.5425 %	103.6541 %	104.4385 %	103.0529 %
Concentration per Run 1	106.4701 %	101.9723 %	102.1698 %	106.2891 %	104.9389 %	103.3912 %
Concentration per Run 2	102.0167 %	101.6691 %	101.4813 %	102.6892 %	104.2905 %	103.1705 %
Concentration per Run 3	100.7368 %	101.0079 %	100.9763 %	101.9839 %	104.0860 %	102.5968 %
Concentration RSD	2.9 %	0.5 %	0.6 %	2.2 %	0.4 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1808456-4 WG1808456
 Analysis started at: 8/2/2023 9:22:47 PM
 Rack: 2
 Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0517 ppm	2.2831 ppm	0.1351 ppm	26.4362 ppm	2.5632 ppm	0.0557 ppm	19.5078 ppm
Concentration per Run 1	0.0513 ppm	2.1876 ppm	0.1350 ppm	26.3871 ppm	2.4504 ppm	0.0533 ppm	18.6581 ppm
Concentration per Run 2	0.0520 ppm	2.3292 ppm	0.1349 ppm	26.4343 ppm	2.6119 ppm	0.0568 ppm	19.8903 ppm
Concentration per Run 3	0.0518 ppm	2.3326 ppm	0.1353 ppm	26.4873 ppm	2.6272 ppm	0.0569 ppm	19.9749 ppm
Concentration RSD	0.8 %	3.6 %	0.2 %	0.2 %	3.8 %	3.7 %	3.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0628 ppm	0.5450 ppm	0.2120 ppm	0.2869 ppm	1.6266 ppm	19.3381 ppm	10.8570 ppm
Concentration per Run 1	0.0628 ppm	0.5441 ppm	0.2123 ppm	0.2850 ppm	1.5430 ppm	18.4586 ppm	10.8351 ppm
Concentration per Run 2	0.0628 ppm	0.5451 ppm	0.2117 ppm	0.2874 ppm	1.6576 ppm	19.7482 ppm	10.8576 ppm
Concentration per Run 3	0.0629 ppm	0.5457 ppm	0.2120 ppm	0.2883 ppm	1.6792 ppm	19.8076 ppm	10.8782 ppm
Concentration RSD	0.1 %	0.1 %	0.1 %	0.6 %	4.5 %	3.9 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.6550 ppm	0.9725 ppm	92.2319 ppm	0.6158 ppm	0.5447 ppm	0.7372 ppm	0.1361 ppm
Concentration per Run 1	0.6269 ppm	0.9641 ppm	88.2288 ppm	0.6156 ppm	0.5439 ppm	0.7320 ppm	0.1345 ppm
Concentration per Run 2	0.6664 ppm	0.9734 ppm	94.1049 ppm	0.6161 ppm	0.5445 ppm	0.7370 ppm	0.1333 ppm
Concentration per Run 3	0.6718 ppm	0.9800 ppm	94.3619 ppm	0.6158 ppm	0.5456 ppm	0.7427 ppm	0.1406 ppm
Concentration RSD	3.7 %	0.8 %	3.8 %	0.0 %	0.2 %	0.7 %	2.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	12.7656 ppm	0.9728 ppm	1.1074 ppm	1.0495 ppm	0.1262 ppm	0.5233 ppm	0.5579 ppm
Concentration per Run 1	12.7545 ppm	0.9693 ppm	1.0586 ppm	1.0484 ppm	0.1268 ppm	0.5233 ppm	0.5579 ppm
Concentration per Run 2	12.7665 ppm	0.9737 ppm	1.1291 ppm	1.0491 ppm	0.1248 ppm	0.5232 ppm	0.5581 ppm
Concentration per Run 3	12.7759 ppm	0.9754 ppm	1.1345 ppm	1.0510 ppm	0.1271 ppm	0.5234 ppm	0.5578 ppm
Concentration RSD	0.1 %	0.3 %	3.8 %	0.1 %	1.0 %	0.0 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.8117 %	100.2497 %	100.5977 %	102.9500 %	103.9623 %	102.1688 %
Concentration per Run 1	106.8795 %	100.1806 %	100.4864 %	107.2332 %	103.9327 %	102.2536 %
Concentration per Run 2	98.6235 %	100.4574 %	100.4324 %	100.2860 %	103.9305 %	102.3412 %
Concentration per Run 3	99.9321 %	100.1111 %	100.8741 %	101.3309 %	104.0236 %	101.9115 %
Concentration RSD	4.4 %	0.2 %	0.2 %	3.6 %	0.1 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: WG1808456-5D5 WG1808456
 Analysis started at: 8/2/2023 9:27:06 PM
 Rack: 2
 Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.0260 ppm	-0.0005 ppm	4.9140 ppm	0.0788 ppm	0.0001 ppm	1.7955 ppm
Concentration per Run 1	0.0004 ppm	0.0183 ppm	0.0017 ppm	4.9226 ppm	0.0753 ppm	0.0001 ppm	1.7168 ppm
Concentration per Run 2	0.0002 ppm	0.0243 ppm	-0.0006 ppm	4.8943 ppm	0.0807 ppm	0.0001 ppm	1.8278 ppm
Concentration per Run 3	0.0010 ppm	0.0353 ppm	-0.0026 ppm	4.9251 ppm	0.0803 ppm	0.0001 ppm	1.8420 ppm
Concentration RSD	68.9 %	33.3 %	423.8 %	0.3 %	3.8 %	30.6 %	3.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0011 ppm	0.0069 ppm	0.0007 ppm	0.0031 ppm	0.1139 ppm	1.6817 ppm	0.1218 ppm
Concentration per Run 1	0.0012 ppm	0.0070 ppm	0.0006 ppm	0.0032 ppm	0.1058 ppm	1.5929 ppm	0.1208 ppm
Concentration per Run 2	0.0011 ppm	0.0070 ppm	0.0008 ppm	0.0031 ppm	0.1174 ppm	1.6565 ppm	0.1240 ppm
Concentration per Run 3	0.0011 ppm	0.0067 ppm	0.0008 ppm	0.0030 ppm	0.1185 ppm	1.7956 ppm	0.1205 ppm
Concentration RSD	2.5 %	2.7 %	14.7 %	3.5 %	6.2 %	6.2 %	1.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0241 ppm	0.0047 ppm	16.3293 ppm	0.0229 ppm	0.0029 ppm	0.0480 ppm	-0.0006 ppm
Concentration per Run 1	0.0228 ppm	0.0053 ppm	15.6057 ppm	0.0234 ppm	0.0009 ppm	0.0481 ppm	-0.0011 ppm
Concentration per Run 2	0.0251 ppm	0.0045 ppm	16.6545 ppm	0.0227 ppm	0.0045 ppm	0.0472 ppm	-0.0022 ppm
Concentration per Run 3	0.0246 ppm	0.0042 ppm	16.7278 ppm	0.0225 ppm	0.0033 ppm	0.0487 ppm	0.0016 ppm
Concentration RSD	5.0 %	12.8 %	3.8 %	2.2 %	63.3 %	1.7 %	335.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.3837 ppm	0.0044 ppm	0.0116 ppm	0.0078 ppm	0.0017 ppm	0.0011 ppm	0.0093 ppm
Concentration per Run 1	2.3882 ppm	0.0050 ppm	0.0109 ppm	0.0075 ppm	-0.0001 ppm	0.0013 ppm	0.0093 ppm
Concentration per Run 2	2.3776 ppm	0.0045 ppm	0.0118 ppm	0.0077 ppm	0.0021 ppm	0.0009 ppm	0.0094 ppm
Concentration per Run 3	2.3853 ppm	0.0037 ppm	0.0119 ppm	0.0082 ppm	0.0030 ppm	0.0012 ppm	0.0093 ppm
Concentration RSD	0.2 %	14.5 %	4.9 %	4.4 %	95.1 %	21.6 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.5429 %	101.9564 %	101.8850 %	103.9486 %	104.8307 %	103.7304 %
Concentration per Run 1	106.6401 %	102.2259 %	101.9204 %	107.8944 %	104.6129 %	104.1262 %
Concentration per Run 2	100.3189 %	102.2237 %	102.0758 %	101.6810 %	105.2525 %	103.8135 %
Concentration per Run 3	100.6697 %	101.4197 %	101.6588 %	102.2703 %	104.6267 %	103.2515 %
Concentration RSD	3.5 %	0.5 %	0.2 %	3.3 %	0.3 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCV
 Analysis started at: 8/2/2023 9:31:36 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5195 ppm	0.5353 ppm	0.4907 ppm	0.5398 ppm	0.5297 ppm	0.5172 ppm	0.5524 ppm
Concentration per Run 1	0.5213 ppm	0.5283 ppm	0.4908 ppm	0.5432 ppm	0.5050 ppm	0.4924 ppm	0.5359 ppm
Concentration per Run 2	0.5206 ppm	0.5363 ppm	0.4909 ppm	0.5395 ppm	0.5404 ppm	0.5284 ppm	0.5681 ppm
Concentration per Run 3	0.5167 ppm	0.5414 ppm	0.4903 ppm	0.5367 ppm	0.5437 ppm	0.5310 ppm	0.5532 ppm
Recovery Percentage 1	103.901 %	107.065 %	98.140 %	107.965 %	105.932 %	103.447 %	110.482 %
Concentration RSD	0.5 %	1.2 %	0.1 %	0.6 %	4.1 %	4.2 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5092 ppm	0.5071 ppm	0.5064 ppm	0.5169 ppm	0.5674 ppm	5.5533 ppm	0.5224 ppm
Concentration per Run 1	0.5110 ppm	0.5093 ppm	0.5073 ppm	0.5180 ppm	0.5354 ppm	5.2341 ppm	0.5214 ppm
Concentration per Run 2	0.5090 ppm	0.5059 ppm	0.5079 ppm	0.5168 ppm	0.5881 ppm	5.6972 ppm	0.5231 ppm
Concentration per Run 3	0.5076 ppm	0.5062 ppm	0.5042 ppm	0.5158 ppm	0.5789 ppm	5.7287 ppm	0.5227 ppm
Recovery Percentage 1	101.844 %	101.428 %	101.289 %	103.372 %	113.489 %	111.067 %	104.482 %
Concentration RSD	0.3 %	0.4 %	0.4 %	0.2 %	5.0 %	5.0 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5294 ppm	0.4899 ppm	10.6327 ppm	0.5167 ppm	0.5069 ppm	0.4960 ppm	0.5168 ppm
Concentration per Run 1	0.5051 ppm	0.4899 ppm	10.1658 ppm	0.5188 ppm	0.5091 ppm	0.4931 ppm	0.5190 ppm
Concentration per Run 2	0.5397 ppm	0.4900 ppm	10.8236 ppm	0.5159 ppm	0.5068 ppm	0.4980 ppm	0.5157 ppm
Concentration per Run 3	0.5433 ppm	0.4898 ppm	10.9087 ppm	0.5154 ppm	0.5049 ppm	0.4968 ppm	0.5155 ppm
Recovery Percentage 1	105.871 %	97.978 %	106.327 %	103.346 %	101.390 %	99.190 %	103.351 %
Concentration RSD	4.0 %	0.0 %	3.8 %	0.4 %	0.4 %	0.5 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3022 ppm	0.4941 ppm	0.5277 ppm	0.5071 ppm	0.5090 ppm	0.4987 ppm	0.5049 ppm
Concentration per Run 1	5.3219 ppm	0.4943 ppm	0.5028 ppm	0.5072 ppm	0.5120 ppm	0.4993 ppm	0.5068 ppm
Concentration per Run 2	5.2910 ppm	0.4934 ppm	0.5388 ppm	0.5082 ppm	0.5068 ppm	0.4997 ppm	0.5045 ppm
Concentration per Run 3	5.2937 ppm	0.4947 ppm	0.5414 ppm	0.5057 ppm	0.5082 ppm	0.4971 ppm	0.5035 ppm
Recovery Percentage 1	106.044 %	98.829 %	105.530 %	101.412 %	101.802 %	99.738 %	100.986 %
Concentration RSD	0.3 %	0.1 %	4.1 %	0.2 %	0.5 %	0.3 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.7900 %	102.1436 %	101.0950 %	102.8878 %	104.4822 %	103.2802 %
Concentration per Run 1	105.9877 %	102.1512 %	100.8469 %	106.9516 %	104.1733 %	103.2800 %
Concentration per Run 2	99.2514 %	101.8543 %	101.0210 %	100.4444 %	104.4244 %	102.9290 %
Concentration per Run 3	100.1310 %	102.4253 %	101.4173 %	101.2674 %	104.8490 %	103.6316 %
Recovery Percentage 1						
Concentration RSD	3.6 %	0.3 %	0.3 %	3.4 %	0.3 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCB
 Analysis started at: 8/2/2023 9:35:57 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0092 ppm	-0.0008 ppm	0.0278 ppm	0.0000 ppm	0.0003 ppm	0.0238 ppm
Concentration per Run 1	-0.0001 ppm	-0.0049 ppm	-0.0035 ppm	0.0288 ppm	-0.0001 ppm	0.0001 ppm	0.0276 ppm
Concentration per Run 2	0.0002 ppm	-0.0140 ppm	0.0006 ppm	0.0277 ppm	0.0002 ppm	0.0004 ppm	0.0182 ppm
Concentration per Run 3	-0.0007 ppm	-0.0086 ppm	0.0005 ppm	0.0268 ppm	-0.0001 ppm	0.0003 ppm	0.0256 ppm
Recovery Percentage 1	-2.459 %	-9.190 %	-15.650 %	92.629 %	0.198 %	5.345 %	23.778 %
Concentration RSD	271.8 %	49.7 %	299.4 %	3.6 %	852.4 %	54.8 %	20.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0093 ppm	0.0295 ppm	0.0042 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0004 ppm	0.0068 ppm	-0.0265 ppm	0.0033 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0108 ppm	0.0587 ppm	0.0055 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0103 ppm	0.0563 ppm	0.0037 ppm
Recovery Percentage 1	2.561 %	0.627 %	0.935 %	3.265 %	18.620 %	1.180 %	4.175 %
Concentration RSD	40.9 %	89.5 %	123.0 %	27.9 %	23.4 %	164.4 %	27.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0009 ppm	0.0015 ppm	0.0183 ppm	0.0002 ppm	0.0016 ppm	0.0027 ppm	-0.0010 ppm
Concentration per Run 1	0.0004 ppm	0.0017 ppm	0.0182 ppm	0.0004 ppm	0.0020 ppm	0.0058 ppm	0.0024 ppm
Concentration per Run 2	0.0005 ppm	0.0014 ppm	0.0251 ppm	0.0001 ppm	0.0019 ppm	0.0011 ppm	-0.0050 ppm
Concentration per Run 3	0.0020 ppm	0.0013 ppm	0.0115 ppm	0.0001 ppm	0.0010 ppm	0.0012 ppm	-0.0005 ppm
Recovery Percentage 1	9.453 %	2.964 %	0.913 %	0.742 %	16.090 %	5.433 %	-10.316 %
Concentration RSD	96.8 %	16.2 %	37.1 %	112.2 %	35.5 %	97.8 %	358.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0096 ppm	0.0026 ppm	0.0001 ppm	0.0012 ppm	0.0011 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 1	0.0099 ppm	0.0029 ppm	0.0003 ppm	0.0010 ppm	0.0009 ppm	-0.0003 ppm	0.0005 ppm
Concentration per Run 2	0.0097 ppm	0.0023 ppm	-0.0003 ppm	0.0010 ppm	0.0006 ppm	0.0008 ppm	0.0006 ppm
Concentration per Run 3	0.0090 ppm	0.0026 ppm	0.0002 ppm	0.0016 ppm	0.0018 ppm	0.0008 ppm	0.0005 ppm
Recovery Percentage 1	1.911 %	5.176 %	0.590 %	11.891 %	5.565 %	4.251 %	10.307 %
Concentration RSD	4.9 %	10.6 %	563.4 %	27.0 %	57.3 %	150.0 %	9.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.9319 %	101.7085 %	101.4310 %	101.8178 %	102.8159 %	101.3281 %
Concentration per Run 1	106.5605 %	101.5095 %	101.4846 %	105.8571 %	102.6324 %	101.1357 %
Concentration per Run 2	99.5604 %	102.3840 %	101.4518 %	99.9734 %	102.9775 %	101.9677 %
Concentration per Run 3	99.6749 %	101.2320 %	101.3565 %	99.6229 %	102.8378 %	100.8810 %
Recovery Percentage 1						
Concentration RSD	3.9 %	0.6 %	0.1 %	3.4 %	0.2 %	0.6 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCV
 Analysis started at: 8/2/2023 9:51:41 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5221 ppm	0.5509 ppm	0.4812 ppm	0.5145 ppm	0.5432 ppm	0.5205 ppm	0.5668 ppm
Concentration per Run 1	0.5224 ppm	0.5324 ppm	0.4802 ppm	0.5147 ppm	0.5236 ppm	0.5041 ppm	0.5337 ppm
Concentration per Run 2	0.5213 ppm	0.5532 ppm	0.4820 ppm	0.5153 ppm	0.5489 ppm	0.5262 ppm	0.5732 ppm
Concentration per Run 3	0.5227 ppm	0.5669 ppm	0.4815 ppm	0.5136 ppm	0.5571 ppm	0.5312 ppm	0.5935 ppm
Recovery Percentage 1	104.421 %	110.171 %	96.247 %	102.908 %	108.635 %	104.102 %	113.362 %
Concentration RSD	0.1 %	3.2 %	0.2 %	0.2 %	3.2 %	2.8 %	5.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5156 ppm	0.5084 ppm	0.5031 ppm	0.5173 ppm	0.5942 ppm	5.6403 ppm	0.5252 ppm
Concentration per Run 1	0.5157 ppm	0.5090 ppm	0.5026 ppm	0.5167 ppm	0.5765 ppm	5.4823 ppm	0.5245 ppm
Concentration per Run 2	0.5159 ppm	0.5076 ppm	0.5033 ppm	0.5173 ppm	0.6027 ppm	5.6793 ppm	0.5247 ppm
Concentration per Run 3	0.5150 ppm	0.5086 ppm	0.5035 ppm	0.5177 ppm	0.6033 ppm	5.7594 ppm	0.5265 ppm
Recovery Percentage 1	103.112 %	101.677 %	100.626 %	103.452 %	118.831 %	112.806 %	105.044 %
Concentration RSD	0.1 %	0.1 %	0.1 %	0.1 %	2.6 %	2.5 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5367 ppm	0.4882 ppm	10.8154 ppm	0.5223 ppm	0.5046 ppm	0.4982 ppm	0.5166 ppm
Concentration per Run 1	0.5217 ppm	0.4872 ppm	10.4400 ppm	0.5213 ppm	0.5045 ppm	0.4946 ppm	0.5187 ppm
Concentration per Run 2	0.5410 ppm	0.4881 ppm	10.9498 ppm	0.5216 ppm	0.5044 ppm	0.4994 ppm	0.5127 ppm
Concentration per Run 3	0.5473 ppm	0.4894 ppm	11.0563 ppm	0.5240 ppm	0.5048 ppm	0.5006 ppm	0.5184 ppm
Recovery Percentage 1	107.332 %	97.645 %	108.154 %	104.465 %	100.915 %	99.638 %	103.322 %
Concentration RSD	2.5 %	0.2 %	3.0 %	0.3 %	0.0 %	0.6 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2859 ppm	0.4861 ppm	0.5398 ppm	0.5106 ppm	0.5030 ppm	0.4974 ppm	0.5052 ppm
Concentration per Run 1	5.2866 ppm	0.4844 ppm	0.5212 ppm	0.5099 ppm	0.5027 ppm	0.4985 ppm	0.5050 ppm
Concentration per Run 2	5.2859 ppm	0.4848 ppm	0.5454 ppm	0.5109 ppm	0.5050 ppm	0.4969 ppm	0.5053 ppm
Concentration per Run 3	5.2852 ppm	0.4890 ppm	0.5526 ppm	0.5111 ppm	0.5014 ppm	0.4969 ppm	0.5052 ppm
Recovery Percentage 1	105.718 %	97.216 %	107.951 %	102.124 %	100.605 %	99.481 %	101.031 %
Concentration RSD	0.0 %	0.5 %	3.0 %	0.1 %	0.4 %	0.2 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.2764 %	101.7510 %	101.1020 %	101.8241 %	105.0372 %	102.4611 %
Concentration per Run 1	104.2300 %	102.0924 %	101.3115 %	104.7884 %	105.3320 %	102.7890 %
Concentration per Run 2	99.8459 %	101.6648 %	101.1747 %	100.6649 %	104.9765 %	102.3559 %
Concentration per Run 3	99.7533 %	101.4957 %	100.8198 %	100.0189 %	104.8032 %	102.2384 %
Recovery Percentage 1						
Concentration RSD	2.5 %	0.3 %	0.3 %	2.5 %	0.3 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCB
 Analysis started at: 8/2/2023 9:56:01 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0057 ppm	-0.0010 ppm	0.0121 ppm	0.0000 ppm	0.0001 ppm	0.0131 ppm
Concentration per Run 1	0.0009 ppm	0.0063 ppm	-0.0015 ppm	0.0122 ppm	0.0000 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 2	0.0006 ppm	0.0205 ppm	0.0002 ppm	0.0119 ppm	0.0002 ppm	0.0003 ppm	0.0103 ppm
Concentration per Run 3	-0.0002 ppm	-0.0098 ppm	-0.0016 ppm	0.0121 ppm	-0.0001 ppm	0.0001 ppm	0.0264 ppm
Recovery Percentage 1	6.123 %	5.664 %	-19.754 %	40.278 %	0.484 %	2.515 %	13.107 %
Concentration RSD	125.1 %	268.2 %	103.0 %	1.3 %	274.7 %	88.5 %	92.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0157 ppm	-0.0141 ppm	0.0040 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0160 ppm	0.0280 ppm	0.0028 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0009 ppm	0.0170 ppm	-0.0026 ppm	0.0068 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0003 ppm	0.0140 ppm	-0.0677 ppm	0.0023 ppm
Recovery Percentage 1	2.861 %	0.455 %	2.362 %	5.624 %	31.316 %	-0.565 %	3.954 %
Concentration RSD	36.0 %	166.1 %	175.4 %	60.4 %	9.5 %	346.4 %	61.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0007 ppm	0.0012 ppm	0.0047 ppm	0.0006 ppm	0.0004 ppm	0.0025 ppm	0.0032 ppm
Concentration per Run 1	0.0000 ppm	0.0016 ppm	0.0079 ppm	0.0005 ppm	0.0001 ppm	0.0023 ppm	0.0005 ppm
Concentration per Run 2	0.0011 ppm	0.0010 ppm	0.0121 ppm	0.0007 ppm	0.0002 ppm	0.0045 ppm	0.0055 ppm
Concentration per Run 3	0.0009 ppm	0.0009 ppm	-0.0059 ppm	0.0005 ppm	0.0009 ppm	0.0008 ppm	0.0035 ppm
Recovery Percentage 1	6.546 %	2.317 %	0.234 %	2.280 %	4.279 %	5.013 %	31.701 %
Concentration RSD	88.0 %	30.5 %	201.3 %	21.6 %	102.6 %	74.6 %	79.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0052 ppm	0.0018 ppm	0.0001 ppm	0.0009 ppm	0.0018 ppm	0.0006 ppm	0.0004 ppm
Concentration per Run 1	0.0064 ppm	0.0023 ppm	0.0001 ppm	0.0008 ppm	0.0035 ppm	0.0009 ppm	0.0005 ppm
Concentration per Run 2	0.0048 ppm	0.0013 ppm	0.0001 ppm	0.0004 ppm	-0.0008 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 3	0.0045 ppm	0.0018 ppm	0.0002 ppm	0.0014 ppm	0.0028 ppm	0.0004 ppm	0.0003 ppm
Recovery Percentage 1	1.049 %	3.541 %	1.265 %	8.587 %	9.156 %	5.583 %	8.263 %
Concentration RSD	19.5 %	29.0 %	80.7 %	62.5 %	127.4 %	49.2 %	22.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.4790 %	101.5390 %	101.4148 %	101.3747 %	103.0413 %	100.6847 %
Concentration per Run 1	106.6397 %	101.8624 %	101.3492 %	105.5373 %	103.0774 %	100.8437 %
Concentration per Run 2	101.1936 %	100.8408 %	101.3224 %	99.7632 %	103.1237 %	100.0844 %
Concentration per Run 3	99.6039 %	101.9138 %	101.5729 %	98.8237 %	102.9227 %	101.1259 %
Recovery Percentage 1						
Concentration RSD	3.6 %	0.6 %	0.1 %	3.6 %	0.1 %	0.5 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: Blank CEY Trace6
 Analysis started at: 8/2/2023 10:13:23 PM
 Rack: 0
 Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.2 %	-0.9 %	-0.5 %	0.0 %	0.1 %	-5.6 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	2.0 %	0.1 %	-0.1 %	0.0 %	2.3 %	1.4 %	-0.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	1.0 %	0.4 %	-0.1 %	-0.1 %	-0.1 %	0.1 %	-0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.1 %	0.0 %	0.0 %	-0.3 %	-0.1 %	-0.1 %	-0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.1 %	0.0 %	0.0 %	0.1 %	0.0 %	0.0 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICAL
 Analysis started at: 8/2/2023 10:17:55 PM
 Rack: 0
 Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0023 ppm	23.0565 ppm	0.9939 ppm	0.9963 ppm	0.9221 ppm	0.9216 ppm	9.1976 ppm
Concentration per Run 2	0.9969 ppm	25.9052 ppm	1.0035 ppm	1.0017 ppm	1.0360 ppm	1.0372 ppm	10.3547 ppm
Concentration per Run 3	1.0008 ppm	26.0383 ppm	1.0026 ppm	1.0020 ppm	1.0419 ppm	1.0413 ppm	10.4477 ppm
Concentration RSD	0.3 %	6.7 %	0.5 %	0.3 %	6.8 %	6.8 %	7.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9971 ppm	0.9963 ppm	1.0021 ppm	1.0016 ppm	23.0450 ppm	32.3486 ppm	10.0150 ppm
Concentration per Run 2	1.0022 ppm	1.0019 ppm	0.9965 ppm	0.9982 ppm	25.9204 ppm	36.1339 ppm	9.9679 ppm
Concentration per Run 3	1.0007 ppm	1.0018 ppm	1.0014 ppm	1.0002 ppm	26.0346 ppm	36.5175 ppm	10.0171 ppm
Concentration RSD	0.3 %	0.3 %	0.3 %	0.2 %	6.8 %	6.6 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9223 ppm	0.9966 ppm	23.0994 ppm	0.9968 ppm	0.9985 ppm	0.9961 ppm	0.9983 ppm
Concentration per Run 2	1.0355 ppm	1.0021 ppm	25.8948 ppm	1.0017 ppm	1.0008 ppm	1.0003 ppm	1.0036 ppm
Concentration per Run 3	1.0422 ppm	1.0012 ppm	26.0058 ppm	1.0015 ppm	1.0007 ppm	1.0036 ppm	0.9981 ppm
Concentration RSD	6.7 %	0.3 %	6.6 %	0.3 %	0.1 %	0.4 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9687 ppm	0.9959 ppm	0.9215 ppm	1.0039 ppm	0.9957 ppm	1.0032 ppm	0.9967 ppm
Concentration per Run 2	10.0226 ppm	1.0013 ppm	1.0373 ppm	0.9953 ppm	1.0040 ppm	0.9965 ppm	1.0025 ppm
Concentration per Run 3	10.0087 ppm	1.0028 ppm	1.0413 ppm	1.0009 ppm	1.0003 ppm	1.0003 ppm	1.0008 ppm
Concentration RSD	0.3 %	0.4 %	6.8 %	0.4 %	0.4 %	0.3 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.0716 %	98.4040 %	97.1569 %	101.7042 %	98.3234 %	101.0229 %
Concentration per Run 1	105.1090 %	97.5903 %	97.2526 %	108.5310 %	98.5961 %	100.3011 %
Concentration per Run 2	96.6944 %	99.4307 %	97.2959 %	99.2463 %	98.2597 %	102.0691 %
Concentration per Run 3	95.4115 %	98.1911 %	96.9223 %	97.3353 %	98.1145 %	100.6985 %
Concentration RSD	5.3 %	1.0 %	0.2 %	5.9 %	0.3 %	0.9 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICV
 Analysis started at: 8/2/2023 10:22:09 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5064 ppm	0.5142 ppm	0.4996 ppm	0.4945 ppm	0.5010 ppm	0.5012 ppm	0.5056 ppm
Concentration per Run 1	0.5072 ppm	0.4765 ppm	0.5016 ppm	0.4960 ppm	0.4668 ppm	0.4670 ppm	0.4808 ppm
Concentration per Run 2	0.5058 ppm	0.5344 ppm	0.4988 ppm	0.4942 ppm	0.5155 ppm	0.5160 ppm	0.5158 ppm
Concentration per Run 3	0.5064 ppm	0.5319 ppm	0.4985 ppm	0.4934 ppm	0.5205 ppm	0.5206 ppm	0.5204 ppm
Recovery Percentage 1	101.289 %	102.848 %	99.929 %	98.904 %	100.194 %	100.235 %	101.127 %
Concentration RSD	0.1 %	6.4 %	0.3 %	0.3 %	5.9 %	5.9 %	4.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4969 ppm	0.5051 ppm	0.5101 ppm	0.5121 ppm	0.5222 ppm	5.3043 ppm	0.5125 ppm
Concentration per Run 1	0.4984 ppm	0.5060 ppm	0.5097 ppm	0.5134 ppm	0.4860 ppm	4.9783 ppm	0.5130 ppm
Concentration per Run 2	0.4965 ppm	0.5049 ppm	0.5109 ppm	0.5115 ppm	0.5347 ppm	5.4370 ppm	0.5133 ppm
Concentration per Run 3	0.4957 ppm	0.5043 ppm	0.5098 ppm	0.5115 ppm	0.5459 ppm	5.4976 ppm	0.5113 ppm
Recovery Percentage 1	99.375 %	101.014 %	102.027 %	102.423 %	104.439 %	106.085 %	102.506 %
Concentration RSD	0.3 %	0.2 %	0.1 %	0.2 %	6.1 %	5.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5096 ppm	0.4932 ppm	10.2381 ppm	0.5075 ppm	0.5044 ppm	0.4962 ppm	0.5043 ppm
Concentration per Run 1	0.4744 ppm	0.4946 ppm	9.5739 ppm	0.5094 ppm	0.5059 ppm	0.4974 ppm	0.5072 ppm
Concentration per Run 2	0.5236 ppm	0.4923 ppm	10.5230 ppm	0.5063 ppm	0.5035 ppm	0.4944 ppm	0.5045 ppm
Concentration per Run 3	0.5308 ppm	0.4927 ppm	10.6173 ppm	0.5069 ppm	0.5038 ppm	0.4970 ppm	0.5013 ppm
Recovery Percentage 1	101.925 %	98.640 %	102.381 %	101.509 %	100.880 %	99.250 %	100.865 %
Concentration RSD	6.0 %	0.2 %	5.6 %	0.3 %	0.3 %	0.3 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2451 ppm	0.4982 ppm	0.4925 ppm	0.4959 ppm	0.5102 ppm	0.4993 ppm	0.4996 ppm
Concentration per Run 1	5.2586 ppm	0.5000 ppm	0.4588 ppm	0.4961 ppm	0.5125 ppm	0.4994 ppm	0.5003 ppm
Concentration per Run 2	5.2417 ppm	0.4961 ppm	0.5063 ppm	0.4955 ppm	0.5100 ppm	0.4998 ppm	0.4994 ppm
Concentration per Run 3	5.2350 ppm	0.4985 ppm	0.5124 ppm	0.4961 ppm	0.5081 ppm	0.4986 ppm	0.4992 ppm
Recovery Percentage 1	104.902 %	99.642 %	98.499 %	99.188 %	102.040 %	99.856 %	99.930 %
Concentration RSD	0.2 %	0.4 %	6.0 %	0.1 %	0.4 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.2217 %	100.4974 %	99.4897 %	101.8417 %	101.1422 %	102.7010 %
Concentration per Run 1	104.3921 %	100.7088 %	99.6649 %	106.9145 %	101.1105 %	102.8995 %
Concentration per Run 2	96.5903 %	100.2665 %	99.1898 %	99.5561 %	101.1151 %	102.5731 %
Concentration per Run 3	96.6826 %	100.5169 %	99.6144 %	99.0545 %	101.2011 %	102.6305 %
Recovery Percentage 1						
Concentration RSD	4.5 %	0.2 %	0.3 %	4.3 %	0.1 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICB
 Analysis started at: 8/2/2023 10:26:30 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0094 ppm	-0.0006 ppm	-0.0006 ppm	0.0005 ppm	0.0004 ppm	-0.0024 ppm
Concentration per Run 1	0.0009 ppm	0.0120 ppm	-0.0010 ppm	-0.0005 ppm	0.0006 ppm	0.0002 ppm	-0.0054 ppm
Concentration per Run 2	0.0007 ppm	0.0056 ppm	-0.0004 ppm	-0.0009 ppm	0.0004 ppm	0.0004 ppm	-0.0068 ppm
Concentration per Run 3	-0.0001 ppm	0.0107 ppm	-0.0005 ppm	-0.0003 ppm	0.0006 ppm	0.0005 ppm	0.0049 ppm
Recovery Percentage 1	7.356 %	9.426 %	-12.687 %	-1.967 %	5.358 %	7.649 %	-2.444 %
Concentration RSD	100.8 %	35.6 %	47.8 %	56.1 %	25.0 %	39.7 %	263.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0004 ppm	0.0003 ppm	0.0006 ppm	0.0009 ppm	0.0125 ppm	0.0440 ppm	0.0031 ppm
Concentration per Run 1	0.0005 ppm	0.0005 ppm	0.0003 ppm	0.0008 ppm	0.0110 ppm	0.0459 ppm	0.0021 ppm
Concentration per Run 2	0.0003 ppm	0.0004 ppm	0.0008 ppm	0.0008 ppm	0.0082 ppm	0.0756 ppm	0.0045 ppm
Concentration per Run 3	0.0003 ppm	0.0001 ppm	0.0009 ppm	0.0010 ppm	0.0184 ppm	0.0105 ppm	0.0027 ppm
Recovery Percentage 1	9.507 %	1.574 %	6.431 %	8.632 %	25.008 %	1.760 %	3.086 %
Concentration RSD	37.3 %	71.7 %	45.7 %	17.4 %	42.1 %	74.1 %	40.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0006 ppm	0.0015 ppm	0.0072 ppm	0.0004 ppm	0.0007 ppm	0.0028 ppm	0.0028 ppm
Concentration per Run 1	0.0001 ppm	0.0020 ppm	0.0308 ppm	0.0015 ppm	0.0016 ppm	0.0048 ppm	0.0001 ppm
Concentration per Run 2	0.0005 ppm	0.0012 ppm	-0.0157 ppm	-0.0002 ppm	-0.0004 ppm	0.0010 ppm	0.0040 ppm
Concentration per Run 3	0.0013 ppm	0.0014 ppm	0.0066 ppm	0.0000 ppm	0.0010 ppm	0.0027 ppm	0.0042 ppm
Recovery Percentage 1	6.343 %	2.991 %	0.360 %	1.748 %	7.451 %	5.650 %	27.745 %
Concentration RSD	95.8 %	27.6 %	323.0 %	209.5 %	141.3 %	67.9 %	83.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0056 ppm	0.0024 ppm	0.0003 ppm	0.0014 ppm	0.0006 ppm	0.0011 ppm	0.0006 ppm
Concentration per Run 1	0.0082 ppm	0.0037 ppm	0.0002 ppm	0.0015 ppm	0.0000 ppm	0.0011 ppm	0.0007 ppm
Concentration per Run 2	0.0053 ppm	0.0025 ppm	0.0002 ppm	0.0012 ppm	0.0003 ppm	0.0012 ppm	0.0004 ppm
Concentration per Run 3	0.0032 ppm	0.0011 ppm	0.0006 ppm	0.0015 ppm	0.0014 ppm	0.0009 ppm	0.0006 ppm
Recovery Percentage 1	1.112 %	4.883 %	3.314 %	13.947 %	2.864 %	10.522 %	11.569 %
Concentration RSD	45.6 %	53.7 %	64.1 %	13.7 %	125.7 %	11.7 %	32.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.9360 %	101.4786 %	100.7242 %	99.9712 %	100.7801 %	102.0874 %
Concentration per Run 1	102.9244 %	101.3679 %	100.7608 %	104.1840 %	100.8113 %	102.0071 %
Concentration per Run 2	97.0590 %	101.6553 %	100.7758 %	98.1960 %	100.8498 %	102.2821 %
Concentration per Run 3	96.8246 %	101.4125 %	100.6360 %	97.5335 %	100.6791 %	101.9729 %
Recovery Percentage 1						
Concentration RSD	3.5 %	0.2 %	0.1 %	3.7 %	0.1 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICV
 Analysis started at: 8/2/2023 10:34:24 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5025 ppm	0.5129 ppm	0.4942 ppm	0.4893 ppm	0.5018 ppm	0.5000 ppm	0.5059 ppm
Concentration per Run 1	0.5024 ppm	0.4723 ppm	0.4910 ppm	0.4884 ppm	0.4702 ppm	0.4680 ppm	0.4821 ppm
Concentration per Run 2	0.5020 ppm	0.5339 ppm	0.4955 ppm	0.4900 ppm	0.5167 ppm	0.5149 ppm	0.5097 ppm
Concentration per Run 3	0.5032 ppm	0.5323 ppm	0.4963 ppm	0.4897 ppm	0.5186 ppm	0.5171 ppm	0.5257 ppm
Recovery Percentage 1	100.504 %	102.570 %	98.850 %	97.869 %	100.368 %	99.997 %	101.171 %
Concentration RSD	0.1 %	6.8 %	0.6 %	0.2 %	5.5 %	5.5 %	4.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4942 ppm	0.5022 ppm	0.5070 ppm	0.5095 ppm	0.5201 ppm	5.3255 ppm	0.5051 ppm
Concentration per Run 1	0.4930 ppm	0.5000 ppm	0.5064 ppm	0.5098 ppm	0.4891 ppm	4.9430 ppm	0.5060 ppm
Concentration per Run 2	0.4944 ppm	0.5026 ppm	0.5078 ppm	0.5094 ppm	0.5354 ppm	5.4899 ppm	0.5031 ppm
Concentration per Run 3	0.4952 ppm	0.5040 ppm	0.5066 ppm	0.5092 ppm	0.5359 ppm	5.5435 ppm	0.5061 ppm
Recovery Percentage 1	98.843 %	100.442 %	101.390 %	101.897 %	104.028 %	106.510 %	101.012 %
Concentration RSD	0.2 %	0.4 %	0.1 %	0.1 %	5.2 %	6.2 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5118 ppm	0.4888 ppm	10.2254 ppm	0.5058 ppm	0.5014 ppm	0.4913 ppm	0.5006 ppm
Concentration per Run 1	0.4784 ppm	0.4862 ppm	9.6212 ppm	0.5045 ppm	0.5010 ppm	0.4880 ppm	0.4958 ppm
Concentration per Run 2	0.5277 ppm	0.4897 ppm	10.5025 ppm	0.5054 ppm	0.5003 ppm	0.4928 ppm	0.4976 ppm
Concentration per Run 3	0.5292 ppm	0.4906 ppm	10.5525 ppm	0.5073 ppm	0.5028 ppm	0.4931 ppm	0.5084 ppm
Recovery Percentage 1	102.350 %	97.764 %	102.254 %	101.150 %	100.272 %	98.260 %	100.118 %
Concentration RSD	5.6 %	0.5 %	5.1 %	0.3 %	0.3 %	0.6 %	1.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2173 ppm	0.4942 ppm	0.4925 ppm	0.4920 ppm	0.5061 ppm	0.4963 ppm	0.4965 ppm
Concentration per Run 1	5.2002 ppm	0.4915 ppm	0.4608 ppm	0.4922 ppm	0.5042 ppm	0.4969 ppm	0.4958 ppm
Concentration per Run 2	5.2259 ppm	0.4949 ppm	0.5073 ppm	0.4920 ppm	0.5064 ppm	0.4963 ppm	0.4968 ppm
Concentration per Run 3	5.2257 ppm	0.4962 ppm	0.5093 ppm	0.4918 ppm	0.5078 ppm	0.4956 ppm	0.4968 ppm
Recovery Percentage 1	104.345 %	98.843 %	98.496 %	98.398 %	101.228 %	99.258 %	99.294 %
Concentration RSD	0.3 %	0.5 %	5.6 %	0.0 %	0.4 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.6451 %	100.8221 %	100.2153 %	102.3187 %	102.1568 %	103.4353 %
Concentration per Run 1	104.8868 %	100.4896 %	100.4615 %	108.0603 %	102.3798 %	103.1532 %
Concentration per Run 2	96.6806 %	100.8795 %	99.8193 %	99.1860 %	101.9315 %	103.5233 %
Concentration per Run 3	97.3678 %	101.0973 %	100.3650 %	99.7099 %	102.1592 %	103.6294 %
Recovery Percentage 1						
Concentration RSD	4.6 %	0.3 %	0.3 %	4.9 %	0.2 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: ICB
 Analysis started at: 8/2/2023 10:38:44 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0093 ppm	0.0000 ppm	-0.0022 ppm	0.0001 ppm	0.0003 ppm	0.0074 ppm
Concentration per Run 1	0.0007 ppm	0.0190 ppm	0.0009 ppm	-0.0024 ppm	-0.0001 ppm	0.0003 ppm	0.0146 ppm
Concentration per Run 2	0.0005 ppm	-0.0082 ppm	-0.0008 ppm	-0.0017 ppm	-0.0001 ppm	0.0004 ppm	0.0031 ppm
Concentration per Run 3	0.0002 ppm	0.0171 ppm	-0.0001 ppm	-0.0025 ppm	0.0006 ppm	0.0003 ppm	0.0045 ppm
Recovery Percentage 1	6.774 %	9.328 %	0.007 %	-7.389 %	1.130 %	6.621 %	7.382 %
Concentration RSD	56.4 %	162.8 %	247,114.0 %	19.2 %	380.0 %	19.0 %	85.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0003 ppm	0.0002 ppm	0.0004 ppm	0.0088 ppm	0.0208 ppm	0.0038 ppm
Concentration per Run 1	0.0004 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0077 ppm	0.0290 ppm	0.0063 ppm
Concentration per Run 2	0.0003 ppm	0.0005 ppm	0.0001 ppm	0.0010 ppm	0.0098 ppm	0.0512 ppm	0.0051 ppm
Concentration per Run 3	0.0003 ppm	0.0004 ppm	0.0004 ppm	0.0003 ppm	0.0088 ppm	-0.0179 ppm	-0.0001 ppm
Recovery Percentage 1	7.666 %	1.733 %	1.901 %	4.189 %	17.581 %	0.831 %	3.809 %
Concentration RSD	16.6 %	38.1 %	90.7 %	126.4 %	12.3 %	169.9 %	89.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0011 ppm	0.0046 ppm	0.0008 ppm	0.0007 ppm	0.0027 ppm	0.0042 ppm
Concentration per Run 1	0.0004 ppm	0.0012 ppm	0.0069 ppm	0.0012 ppm	0.0019 ppm	0.0031 ppm	0.0060 ppm
Concentration per Run 2	0.0000 ppm	0.0010 ppm	-0.0019 ppm	0.0006 ppm	0.0001 ppm	0.0024 ppm	0.0026 ppm
Concentration per Run 3	0.0008 ppm	0.0009 ppm	0.0088 ppm	0.0007 ppm	0.0002 ppm	0.0026 ppm	0.0039 ppm
Recovery Percentage 1	3.882 %	2.101 %	0.232 %	3.370 %	7.384 %	5.398 %	41.717 %
Concentration RSD	103.5 %	16.1 %	123.0 %	35.2 %	133.8 %	13.9 %	41.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0041 ppm	0.0025 ppm	0.0004 ppm	0.0010 ppm	0.0013 ppm	0.0006 ppm	0.0008 ppm
Concentration per Run 1	0.0050 ppm	0.0030 ppm	0.0002 ppm	0.0020 ppm	0.0017 ppm	0.0004 ppm	0.0008 ppm
Concentration per Run 2	0.0044 ppm	0.0018 ppm	0.0007 ppm	0.0006 ppm	0.0022 ppm	0.0002 ppm	0.0008 ppm
Concentration per Run 3	0.0027 ppm	0.0027 ppm	0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0010 ppm	0.0008 ppm
Recovery Percentage 1	0.813 %	5.024 %	3.501 %	10.432 %	6.688 %	5.541 %	16.049 %
Concentration RSD	29.7 %	24.3 %	87.8 %	76.8 %	81.9 %	69.3 %	5.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.0442 %	101.8272 %	100.8504 %	100.4333 %	101.0042 %	101.7572 %
Concentration per Run 1	104.3064 %	101.9736 %	100.9234 %	104.3407 %	100.9531 %	101.7716 %
Concentration per Run 2	98.1333 %	102.0605 %	100.6882 %	99.1315 %	101.0872 %	102.0973 %
Concentration per Run 3	97.6929 %	101.4474 %	100.9397 %	97.8275 %	100.9723 %	101.4026 %
Recovery Percentage 1						
Concentration RSD	3.7 %	0.3 %	0.1 %	3.4 %	0.1 %	0.3 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: wg1809856-1 wg1809856
 Analysis started at: 8/2/2023 11:00:54 PM
 Rack: 2
 Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0026 ppm	0.0002 ppm	-0.0018 ppm	-0.0001 ppm	0.0001 ppm	-0.0044 ppm
Concentration per Run 1	0.0002 ppm	-0.0004 ppm	0.0008 ppm	-0.0022 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 2	-0.0001 ppm	-0.0156 ppm	0.0002 ppm	-0.0018 ppm	-0.0001 ppm	0.0000 ppm	-0.0032 ppm
Concentration per Run 3	-0.0002 ppm	0.0083 ppm	-0.0004 ppm	-0.0014 ppm	0.0000 ppm	0.0001 ppm	-0.0102 ppm
Concentration RSD	813.4 %	471.4 %	308.5 %	23.3 %	81.5 %	132.7 %	118.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0010 ppm	0.1915 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0004 ppm	-0.0027 ppm	0.1367 ppm	0.0019 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0020 ppm	0.1752 ppm	-0.0018 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0005 ppm	0.0038 ppm	0.2627 ppm	0.0003 ppm
Concentration RSD	80.2 %	266.0 %	153.9 %	32.2 %	326.0 %	33.7 %	1,458.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0001 ppm	150.4589 ppm	0.0009 ppm	-0.0005 ppm	0.0016 ppm	0.0030 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	139.2506 ppm	0.0008 ppm	-0.0002 ppm	0.0013 ppm	0.0034 ppm
Concentration per Run 2	-0.0004 ppm	0.0000 ppm	155.5254 ppm	0.0007 ppm	-0.0005 ppm	0.0015 ppm	0.0012 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	156.6006 ppm	0.0010 ppm	-0.0007 ppm	0.0020 ppm	0.0044 ppm
Concentration RSD	301.1 %	99.8 %	6.5 %	18.6 %	56.4 %	25.3 %	54.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0210 ppm	0.0031 ppm	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 1	0.0201 ppm	0.0041 ppm	0.0000 ppm	0.0003 ppm	0.0025 ppm	0.0006 ppm	0.0006 ppm
Concentration per Run 2	0.0222 ppm	0.0028 ppm	0.0000 ppm	0.0005 ppm	-0.0009 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 3	0.0208 ppm	0.0024 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm
Concentration RSD	5.0 %	29.0 %	591.2 %	61.8 %	367.7 %	96.0 %	12.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.7445 %	98.5386 %	97.2207 %	100.9436 %	99.0054 %	101.3534 %
Concentration per Run 1	104.8904 %	98.0472 %	97.5464 %	107.3929 %	99.2206 %	100.9917 %
Concentration per Run 2	96.0758 %	99.6054 %	96.9501 %	97.9602 %	98.8351 %	102.4123 %
Concentration per Run 3	95.2674 %	97.9632 %	97.1657 %	97.4776 %	98.9605 %	100.6563 %
Concentration RSD	5.4 %	0.9 %	0.3 %	5.5 %	0.2 %	0.9 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: wg1809856-2 wg1809856
 Analysis started at: 8/2/2023 11:05:27 PM
 Rack: 2
 Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0512 ppm	2.1015 ppm	0.1270 ppm	1.0184 ppm	2.0595 ppm	0.0534 ppm	10.2795 ppm
Concentration per Run 1	0.0515 ppm	1.9450 ppm	0.1288 ppm	1.0204 ppm	1.9156 ppm	0.0497 ppm	9.5263 ppm
Concentration per Run 2	0.0511 ppm	2.1760 ppm	0.1266 ppm	1.0167 ppm	2.1195 ppm	0.0548 ppm	10.5843 ppm
Concentration per Run 3	0.0510 ppm	2.1833 ppm	0.1258 ppm	1.0182 ppm	2.1435 ppm	0.0556 ppm	10.7279 ppm
Concentration RSD	0.4 %	6.4 %	1.2 %	0.2 %	6.1 %	6.0 %	6.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0555 ppm	0.5023 ppm	0.2045 ppm	0.2654 ppm	1.0460 ppm	10.6397 ppm	9.8305 ppm
Concentration per Run 1	0.0556 ppm	0.5021 ppm	0.2041 ppm	0.2655 ppm	0.9675 ppm	9.9146 ppm	9.8332 ppm
Concentration per Run 2	0.0555 ppm	0.5015 ppm	0.2046 ppm	0.2651 ppm	1.0776 ppm	10.8867 ppm	9.8177 ppm
Concentration per Run 3	0.0555 ppm	0.5032 ppm	0.2050 ppm	0.2655 ppm	1.0928 ppm	11.1178 ppm	9.8407 ppm
Concentration RSD	0.1 %	0.2 %	0.2 %	0.1 %	6.5 %	6.0 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5082 ppm	0.9975 ppm	160.0047 ppm	0.4962 ppm	0.5228 ppm	0.4969 ppm	0.1303 ppm
Concentration per Run 1	0.4722 ppm	0.9968 ppm	149.0189 ppm	0.4952 ppm	0.5227 ppm	0.4958 ppm	0.1289 ppm
Concentration per Run 2	0.5231 ppm	0.9968 ppm	164.6025 ppm	0.4958 ppm	0.5230 ppm	0.4973 ppm	0.1304 ppm
Concentration per Run 3	0.5293 ppm	0.9988 ppm	166.3926 ppm	0.4975 ppm	0.5226 ppm	0.4977 ppm	0.1316 ppm
Concentration RSD	6.2 %	0.1 %	6.0 %	0.2 %	0.0 %	0.2 %	1.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.3083 ppm	0.9991 ppm	1.0015 ppm	1.0049 ppm	0.1202 ppm	0.5143 ppm	0.5042 ppm
Concentration per Run 1	1.3127 ppm	0.9974 ppm	0.9305 ppm	1.0053 ppm	0.1204 ppm	0.5140 ppm	0.5045 ppm
Concentration per Run 2	1.3058 ppm	0.9990 ppm	1.0307 ppm	1.0021 ppm	0.1214 ppm	0.5136 ppm	0.5038 ppm
Concentration per Run 3	1.3065 ppm	1.0009 ppm	1.0434 ppm	1.0074 ppm	0.1187 ppm	0.5154 ppm	0.5041 ppm
Concentration RSD	0.3 %	0.2 %	6.2 %	0.3 %	1.1 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.2923 %	97.3300 %	97.0353 %	101.0528 %	98.3472 %	100.4658 %
Concentration per Run 1	104.6125 %	97.3579 %	97.0245 %	107.5688 %	98.5408 %	100.4359 %
Concentration per Run 2	95.0778 %	97.4817 %	97.0131 %	98.3269 %	98.4598 %	100.5936 %
Concentration per Run 3	95.1866 %	97.1506 %	97.0684 %	97.2627 %	98.0410 %	100.3679 %
Concentration RSD	5.6 %	0.2 %	0.0 %	5.6 %	0.3 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: L2342679-02 wg1809856
 Analysis started at: 8/2/2023 11:09:47 PM
 Rack: 2
 Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0462 ppm	0.0002 ppm	0.0616 ppm	0.0107 ppm	0.0001 ppm	6.2503 ppm
Concentration per Run 1	0.0004 ppm	0.0370 ppm	-0.0004 ppm	0.0617 ppm	0.0099 ppm	0.0001 ppm	5.7740 ppm
Concentration per Run 2	0.0003 ppm	0.0590 ppm	0.0022 ppm	0.0616 ppm	0.0112 ppm	0.0002 ppm	6.4423 ppm
Concentration per Run 3	-0.0005 ppm	0.0427 ppm	-0.0013 ppm	0.0614 ppm	0.0110 ppm	0.0001 ppm	6.5346 ppm
Concentration RSD	638.0 %	24.7 %	1,125.6 %	0.3 %	6.6 %	20.2 %	6.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0006 ppm	0.0268 ppm	0.3292 ppm	1.1271 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0004 ppm	0.0216 ppm	0.2391 ppm	1.1318 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0006 ppm	0.0318 ppm	0.3267 ppm	1.1300 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0009 ppm	0.0270 ppm	0.4217 ppm	1.1195 ppm
Concentration RSD	2,238.1 %	135.0 %	750.9 %	33.8 %	19.0 %	27.7 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1644 ppm	0.0051 ppm	137.3836 ppm	0.0007 ppm	-0.0003 ppm	0.0020 ppm	0.0036 ppm
Concentration per Run 1	0.1522 ppm	0.0054 ppm	127.2493 ppm	0.0005 ppm	0.0005 ppm	0.0024 ppm	0.0032 ppm
Concentration per Run 2	0.1701 ppm	0.0049 ppm	142.0363 ppm	0.0005 ppm	-0.0007 ppm	0.0026 ppm	0.0023 ppm
Concentration per Run 3	0.1708 ppm	0.0049 ppm	142.8654 ppm	0.0012 ppm	-0.0007 ppm	0.0010 ppm	0.0053 ppm
Concentration RSD	6.4 %	5.1 %	6.4 %	59.9 %	248.1 %	44.1 %	42.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0990 ppm	0.0180 ppm	0.0363 ppm	0.0031 ppm	0.0012 ppm	0.0010 ppm	0.0053 ppm
Concentration per Run 1	0.0971 ppm	0.0181 ppm	0.0337 ppm	0.0032 ppm	0.0025 ppm	0.0016 ppm	0.0052 ppm
Concentration per Run 2	0.0994 ppm	0.0181 ppm	0.0375 ppm	0.0034 ppm	-0.0005 ppm	0.0008 ppm	0.0053 ppm
Concentration per Run 3	0.1004 ppm	0.0179 ppm	0.0376 ppm	0.0028 ppm	0.0015 ppm	0.0007 ppm	0.0055 ppm
Concentration RSD	1.7 %	0.5 %	6.2 %	9.8 %	130.1 %	49.9 %	2.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.4263 %	98.3403 %	97.7762 %	102.2961 %	99.0152 %	101.6993 %
Concentration per Run 1	105.4811 %	97.3789 %	97.5690 %	108.7094 %	98.8132 %	100.7906 %
Concentration per Run 2	96.6139 %	98.9259 %	97.6650 %	99.7633 %	98.7494 %	102.2117 %
Concentration per Run 3	96.1838 %	98.7162 %	98.0946 %	98.4156 %	99.4829 %	102.0955 %
Concentration RSD	5.3 %	0.9 %	0.3 %	5.5 %	0.4 %	0.8 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: L2342679-01 wg1809856
 Analysis started at: 8/2/2023 11:14:18 PM
 Rack: 2
 Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0008 ppm	0.0313 ppm	0.0008 ppm	0.0048 ppm	0.0304 ppm	0.0001 ppm	6.6510 ppm
Concentration per Run 1	0.0007 ppm	0.0181 ppm	0.0005 ppm	0.0047 ppm	0.0279 ppm	0.0000 ppm	6.1052 ppm
Concentration per Run 2	0.0014 ppm	0.0436 ppm	0.0011 ppm	0.0048 ppm	0.0317 ppm	0.0001 ppm	6.8643 ppm
Concentration per Run 3	0.0003 ppm	0.0323 ppm	0.0009 ppm	0.0048 ppm	0.0315 ppm	0.0001 ppm	6.9835 ppm
Concentration RSD	68.1 %	40.8 %	33.6 %	0.4 %	7.1 %	118.0 %	7.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0041 ppm	0.0004 ppm	0.0008 ppm	0.4812 ppm	1.3452 ppm	0.2246 ppm
Concentration per Run 1	0.0000 ppm	0.0042 ppm	-0.0005 ppm	0.0007 ppm	0.4434 ppm	1.2223 ppm	0.2268 ppm
Concentration per Run 2	0.0001 ppm	0.0040 ppm	0.0007 ppm	0.0009 ppm	0.4965 ppm	1.3792 ppm	0.2210 ppm
Concentration per Run 3	0.0001 ppm	0.0040 ppm	0.0008 ppm	0.0009 ppm	0.5037 ppm	1.4341 ppm	0.2262 ppm
Concentration RSD	72.3 %	3.3 %	199.4 %	15.8 %	6.8 %	8.2 %	1.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2561 ppm	0.0004 ppm	139.2207 ppm	0.0066 ppm	0.0007 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run 1	0.2361 ppm	0.0003 ppm	128.6546 ppm	0.0065 ppm	0.0010 ppm	0.0010 ppm	0.0027 ppm
Concentration per Run 2	0.2643 ppm	0.0005 ppm	143.3325 ppm	0.0063 ppm	0.0000 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 3	0.2679 ppm	0.0004 ppm	145.6749 ppm	0.0069 ppm	0.0011 ppm	-0.0006 ppm	0.0011 ppm
Concentration RSD	6.8 %	35.2 %	6.6 %	4.4 %	82.9 %	575.4 %	42.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.2081 ppm	0.0012 ppm	0.0216 ppm	0.0002 ppm	0.0016 ppm	0.0001 ppm	0.0041 ppm
Concentration per Run 1	0.2084 ppm	0.0004 ppm	0.0200 ppm	0.0008 ppm	0.0019 ppm	0.0000 ppm	0.0040 ppm
Concentration per Run 2	0.2084 ppm	0.0014 ppm	0.0219 ppm	0.0002 ppm	0.0005 ppm	0.0003 ppm	0.0042 ppm
Concentration per Run 3	0.2076 ppm	0.0017 ppm	0.0228 ppm	-0.0003 ppm	0.0023 ppm	0.0000 ppm	0.0040 ppm
Concentration RSD	0.2 %	61.1 %	6.7 %	245.4 %	62.5 %	110.1 %	3.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.9864 %	98.3344 %	97.8653 %	101.7429 %	99.0378 %	101.8062 %
Concentration per Run 1	105.5343 %	98.3025 %	98.2504 %	108.9607 %	99.2485 %	101.8091 %
Concentration per Run 2	96.2552 %	98.7402 %	97.7375 %	99.0758 %	98.7318 %	102.2935 %
Concentration per Run 3	95.1697 %	97.9605 %	97.6081 %	97.1923 %	99.1332 %	101.3160 %
Concentration RSD	5.8 %	0.4 %	0.3 %	6.2 %	0.3 %	0.5 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: wg1809856-3 wg1809856
 Analysis started at: 8/2/2023 11:18:49 PM
 Rack: 2
 Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0510 ppm	2.1161 ppm	0.1281 ppm	1.0212 ppm	2.0710 ppm	0.0525 ppm	16.8236 ppm
Concentration per Run 1	0.0511 ppm	1.9498 ppm	0.1261 ppm	1.0159 ppm	1.9116 ppm	0.0483 ppm	15.5226 ppm
Concentration per Run 2	0.0511 ppm	2.1918 ppm	0.1291 ppm	1.0221 ppm	2.1411 ppm	0.0546 ppm	17.3776 ppm
Concentration per Run 3	0.0509 ppm	2.2066 ppm	0.1291 ppm	1.0255 ppm	2.1604 ppm	0.0547 ppm	17.5706 ppm
Concentration RSD	0.3 %	6.8 %	1.3 %	0.5 %	6.7 %	6.9 %	6.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0554 ppm	0.5053 ppm	0.2045 ppm	0.2648 ppm	1.5169 ppm	11.6556 ppm	10.0114 ppm
Concentration per Run 1	0.0552 ppm	0.5043 ppm	0.2056 ppm	0.2654 ppm	1.3912 ppm	10.7644 ppm	10.0141 ppm
Concentration per Run 2	0.0555 ppm	0.5055 ppm	0.2040 ppm	0.2635 ppm	1.5681 ppm	12.0109 ppm	10.0024 ppm
Concentration per Run 3	0.0555 ppm	0.5061 ppm	0.2038 ppm	0.2656 ppm	1.5913 ppm	12.1915 ppm	10.0176 ppm
Concentration RSD	0.3 %	0.2 %	0.5 %	0.4 %	7.2 %	6.7 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.7634 ppm	0.9933 ppm	150.1110 ppm	0.5020 ppm	0.5221 ppm	0.4948 ppm	0.1312 ppm
Concentration per Run 1	0.7041 ppm	0.9903 ppm	138.8276 ppm	0.5008 ppm	0.5214 ppm	0.4923 ppm	0.1259 ppm
Concentration per Run 2	0.7894 ppm	0.9931 ppm	155.1295 ppm	0.5030 ppm	0.5215 ppm	0.4950 ppm	0.1323 ppm
Concentration per Run 3	0.7967 ppm	0.9964 ppm	156.3759 ppm	0.5022 ppm	0.5235 ppm	0.4972 ppm	0.1354 ppm
Concentration RSD	6.7 %	0.3 %	6.5 %	0.2 %	0.2 %	0.5 %	3.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.4972 ppm	0.9938 ppm	1.0101 ppm	0.9998 ppm	0.1218 ppm	0.5124 ppm	0.5065 ppm
Concentration per Run 1	1.4950 ppm	0.9921 ppm	0.9326 ppm	1.0005 ppm	0.1215 ppm	0.5118 ppm	0.5060 ppm
Concentration per Run 2	1.4962 ppm	0.9938 ppm	1.0436 ppm	0.9982 ppm	0.1216 ppm	0.5115 ppm	0.5065 ppm
Concentration per Run 3	1.5004 ppm	0.9954 ppm	1.0540 ppm	1.0008 ppm	0.1224 ppm	0.5140 ppm	0.5068 ppm
Concentration RSD	0.2 %	0.2 %	6.7 %	0.1 %	0.4 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.9071 %	98.0094 %	97.7071 %	102.9627 %	99.1719 %	101.4505 %
Concentration per Run 1	106.2668 %	97.9901 %	97.8367 %	109.9703 %	99.3582 %	101.3931 %
Concentration per Run 2	96.4844 %	97.9211 %	97.3275 %	99.4305 %	98.9498 %	101.3602 %
Concentration per Run 3	96.9701 %	98.1171 %	97.9571 %	99.4872 %	99.2076 %	101.5982 %
Concentration RSD	5.5 %	0.1 %	0.3 %	5.9 %	0.2 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: wg1809856-4 wg1809856
 Analysis started at: 8/2/2023 11:23:08 PM
 Rack: 2
 Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0318 ppm	0.0015 ppm	0.0054 ppm	0.0302 ppm	0.0000 ppm	6.6442 ppm
Concentration per Run 1	0.0001 ppm	0.0366 ppm	0.0013 ppm	0.0057 ppm	0.0277 ppm	0.0000 ppm	6.1204 ppm
Concentration per Run 2	0.0001 ppm	0.0420 ppm	0.0013 ppm	0.0050 ppm	0.0315 ppm	-0.0001 ppm	6.8631 ppm
Concentration per Run 3	-0.0006 ppm	0.0167 ppm	0.0019 ppm	0.0056 ppm	0.0315 ppm	0.0000 ppm	6.9491 ppm
Concentration RSD	348.3 %	41.9 %	22.7 %	7.1 %	7.3 %	146.8 %	6.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0042 ppm	0.0007 ppm	0.0006 ppm	0.4793 ppm	1.3497 ppm	0.2269 ppm
Concentration per Run 1	0.0001 ppm	0.0041 ppm	0.0008 ppm	0.0004 ppm	0.4414 ppm	1.2451 ppm	0.2267 ppm
Concentration per Run 2	0.0001 ppm	0.0041 ppm	0.0007 ppm	0.0003 ppm	0.4976 ppm	1.3682 ppm	0.2299 ppm
Concentration per Run 3	0.0001 ppm	0.0043 ppm	0.0006 ppm	0.0010 ppm	0.4989 ppm	1.4360 ppm	0.2239 ppm
Concentration RSD	28.9 %	2.3 %	17.7 %	60.2 %	6.9 %	7.2 %	1.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2560 ppm	0.0015 ppm	139.2410 ppm	0.0069 ppm	0.0008 ppm	0.0010 ppm	0.0030 ppm
Concentration per Run 1	0.2342 ppm	0.0016 ppm	128.4389 ppm	0.0068 ppm	0.0014 ppm	0.0020 ppm	0.0024 ppm
Concentration per Run 2	0.2658 ppm	0.0015 ppm	144.0811 ppm	0.0069 ppm	0.0004 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 3	0.2679 ppm	0.0013 ppm	145.2031 ppm	0.0069 ppm	0.0006 ppm	0.0011 ppm	0.0047 ppm
Concentration RSD	7.4 %	12.5 %	6.7 %	1.0 %	68.8 %	91.7 %	48.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.2078 ppm	0.0009 ppm	0.0217 ppm	0.0014 ppm	0.0002 ppm	0.0002 ppm	0.0042 ppm
Concentration per Run 1	0.2064 ppm	0.0009 ppm	0.0203 ppm	0.0019 ppm	0.0000 ppm	0.0002 ppm	0.0043 ppm
Concentration per Run 2	0.2092 ppm	0.0014 ppm	0.0224 ppm	0.0010 ppm	-0.0008 ppm	0.0004 ppm	0.0040 ppm
Concentration per Run 3	0.2078 ppm	0.0003 ppm	0.0226 ppm	0.0011 ppm	0.0014 ppm	0.0000 ppm	0.0042 ppm
Concentration RSD	0.7 %	66.8 %	6.0 %	37.1 %	600.1 %	100.6 %	3.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.8914 %	97.9890 %	98.5395 %	101.9037 %	99.8355 %	101.7074 %
Concentration per Run 1	105.9334 %	97.6514 %	98.2843 %	109.4317 %	99.3242 %	101.2936 %
Concentration per Run 2	95.7198 %	98.0475 %	98.6132 %	98.6262 %	99.9887 %	101.8266 %
Concentration per Run 3	95.0209 %	98.2682 %	98.7210 %	97.6533 %	100.1936 %	102.0020 %
Concentration RSD	6.2 %	0.3 %	0.2 %	6.4 %	0.5 %	0.4 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: wg1809856-5 wg1809856
 Analysis started at: 8/2/2023 11:27:37 PM
 Rack: 2
 Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0369 ppm	2.7385 ppm	0.1391 ppm	1.1226 ppm	2.6471 ppm	0.0683 ppm	19.6215 ppm
Concentration per Run 1	0.0375 ppm	2.5363 ppm	0.1452 ppm	1.1731 ppm	2.4506 ppm	0.0632 ppm	18.0889 ppm
Concentration per Run 2	0.0364 ppm	2.8266 ppm	0.1379 ppm	1.1141 ppm	2.7369 ppm	0.0705 ppm	20.2357 ppm
Concentration per Run 3	0.0367 ppm	2.8527 ppm	0.1342 ppm	1.0808 ppm	2.7537 ppm	0.0711 ppm	20.5399 ppm
Concentration RSD	1.6 %	6.4 %	4.0 %	4.2 %	6.4 %	6.4 %	6.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0606 ppm	0.5530 ppm	0.2556 ppm	0.3252 ppm	1.8028 ppm	13.9365 ppm	12.4760 ppm
Concentration per Run 1	0.0635 ppm	0.5800 ppm	0.2600 ppm	0.3308 ppm	1.6682 ppm	12.8382 ppm	12.6772 ppm
Concentration per Run 2	0.0601 ppm	0.5486 ppm	0.2554 ppm	0.3251 ppm	1.8430 ppm	14.3765 ppm	12.4744 ppm
Concentration per Run 3	0.0582 ppm	0.5304 ppm	0.2516 ppm	0.3197 ppm	1.8971 ppm	14.5949 ppm	12.2763 ppm
Concentration RSD	4.5 %	4.5 %	1.6 %	1.7 %	6.6 %	6.9 %	1.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.8985 ppm	1.1171 ppm	145.6753 ppm	0.5478 ppm	0.5821 ppm	0.5294 ppm	0.1400 ppm
Concentration per Run 1	0.8301 ppm	1.1690 ppm	134.6140 ppm	0.5747 ppm	0.6083 ppm	0.5554 ppm	0.1486 ppm
Concentration per Run 2	0.9276 ppm	1.1095 ppm	149.6486 ppm	0.5430 ppm	0.5793 ppm	0.5239 ppm	0.1377 ppm
Concentration per Run 3	0.9378 ppm	1.0727 ppm	152.7634 ppm	0.5257 ppm	0.5586 ppm	0.5089 ppm	0.1337 ppm
Concentration RSD	6.6 %	4.4 %	6.7 %	4.5 %	4.3 %	4.5 %	5.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0209 ppm	1.1247 ppm	1.3169 ppm	1.2606 ppm	0.1310 ppm	0.6330 ppm	0.5549 ppm
Concentration per Run 1	1.0602 ppm	1.1786 ppm	1.2182 ppm	1.2818 ppm	0.1354 ppm	0.6439 ppm	0.5807 ppm
Concentration per Run 2	1.0164 ppm	1.1176 ppm	1.3608 ppm	1.2628 ppm	0.1299 ppm	0.6322 ppm	0.5513 ppm
Concentration per Run 3	0.9860 ppm	1.0777 ppm	1.3716 ppm	1.2373 ppm	0.1278 ppm	0.6228 ppm	0.5326 ppm
Concentration RSD	3.7 %	4.5 %	6.5 %	1.8 %	3.0 %	1.7 %	4.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.0551 %	98.4671 %	98.0529 %	102.7534 %	99.3623 %	101.9886 %
Concentration per Run 1	106.4290 %	98.6449 %	98.1324 %	109.4528 %	99.2831 %	102.0574 %
Concentration per Run 2	97.9810 %	98.2318 %	97.9156 %	101.1040 %	99.5545 %	101.7862 %
Concentration per Run 3	95.7553 %	98.5247 %	98.1108 %	97.7034 %	99.2492 %	102.1223 %
Concentration RSD	5.6 %	0.2 %	0.1 %	5.9 %	0.2 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: wg1809856-6D5 wg1809856
 Analysis started at: 8/2/2023 11:31:56 PM
 Rack: 2
 Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	-0.0011 ppm	0.0001 ppm	-0.0017 ppm	0.0065 ppm	0.0001 ppm	1.3562 ppm
Concentration per Run 1	0.0008 ppm	-0.0051 ppm	0.0009 ppm	-0.0014 ppm	0.0057 ppm	0.0001 ppm	1.2657 ppm
Concentration per Run 2	0.0004 ppm	0.0084 ppm	0.0020 ppm	-0.0013 ppm	0.0069 ppm	0.0001 ppm	1.4023 ppm
Concentration per Run 3	0.0001 ppm	-0.0067 ppm	-0.0026 ppm	-0.0022 ppm	0.0068 ppm	0.0002 ppm	1.4005 ppm
Concentration RSD	81.5 %	732.4 %	2,381.2 %	29.7 %	10.5 %	65.8 %	5.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0010 ppm	0.0003 ppm	0.0004 ppm	0.0964 ppm	0.3211 ppm	0.0516 ppm
Concentration per Run 1	0.0000 ppm	0.0009 ppm	0.0005 ppm	0.0001 ppm	0.0900 ppm	0.2601 ppm	0.0501 ppm
Concentration per Run 2	0.0000 ppm	0.0013 ppm	0.0005 ppm	0.0004 ppm	0.0997 ppm	0.3231 ppm	0.0546 ppm
Concentration per Run 3	-0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0006 ppm	0.0995 ppm	0.3802 ppm	0.0500 ppm
Concentration RSD	40.5 %	24.8 %	86.2 %	76.5 %	5.8 %	18.7 %	5.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0527 ppm	0.0016 ppm	28.5553 ppm	0.0014 ppm	0.0009 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 1	0.0497 ppm	0.0021 ppm	26.7988 ppm	0.0013 ppm	0.0005 ppm	0.0014 ppm	-0.0040 ppm
Concentration per Run 2	0.0539 ppm	0.0016 ppm	29.2659 ppm	0.0011 ppm	0.0008 ppm	0.0013 ppm	0.0040 ppm
Concentration per Run 3	0.0546 ppm	0.0012 ppm	29.6011 ppm	0.0017 ppm	0.0013 ppm	0.0009 ppm	0.0002 ppm
Concentration RSD	5.0 %	29.1 %	5.4 %	23.6 %	45.9 %	23.9 %	6,075.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0411 ppm	0.0000 ppm	0.0046 ppm	0.0011 ppm	0.0011 ppm	0.0004 ppm	0.0012 ppm
Concentration per Run 1	0.0410 ppm	0.0006 ppm	0.0043 ppm	0.0012 ppm	0.0007 ppm	0.0007 ppm	0.0012 ppm
Concentration per Run 2	0.0420 ppm	0.0001 ppm	0.0049 ppm	0.0010 ppm	0.0004 ppm	0.0006 ppm	0.0012 ppm
Concentration per Run 3	0.0404 ppm	-0.0007 ppm	0.0045 ppm	0.0012 ppm	0.0023 ppm	0.0001 ppm	0.0013 ppm
Concentration RSD	1.9 %	4,456.7 %	5.9 %	8.6 %	88.4 %	74.0 %	4.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.7832 %	100.8924 %	100.5668 %	101.9325 %	102.3210 %	103.5617 %
Concentration per Run 1	104.0428 %	101.1129 %	100.9194 %	106.3899 %	102.6980 %	103.6150 %
Concentration per Run 2	97.9028 %	100.7206 %	100.4573 %	99.9806 %	101.7915 %	103.5037 %
Concentration per Run 3	97.4039 %	100.8436 %	100.3236 %	99.4271 %	102.4735 %	103.5664 %
Concentration RSD	3.7 %	0.2 %	0.3 %	3.8 %	0.5 %	0.1 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCV
 Analysis started at: 8/2/2023 11:36:29 PM
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5002 ppm	0.5094 ppm	0.4847 ppm	0.4816 ppm	0.4977 ppm	0.4905 ppm	0.4891 ppm
Concentration per Run 1	0.4991 ppm	0.4817 ppm	0.4856 ppm	0.4807 ppm	0.4659 ppm	0.4600 ppm	0.4501 ppm
Concentration per Run 2	0.4988 ppm	0.5148 ppm	0.4853 ppm	0.4807 ppm	0.5111 ppm	0.5026 ppm	0.5111 ppm
Concentration per Run 3	0.5029 ppm	0.5317 ppm	0.4830 ppm	0.4834 ppm	0.5162 ppm	0.5089 ppm	0.5061 ppm
Recovery Percentage 1	100.049 %	101.882 %	96.932 %	96.329 %	99.548 %	98.096 %	97.824 %
Concentration RSD	0.5 %	5.0 %	0.3 %	0.3 %	5.6 %	5.4 %	6.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4889 ppm	0.4959 ppm	0.4996 ppm	0.5047 ppm	0.5110 ppm	5.2388 ppm	0.5010 ppm
Concentration per Run 1	0.4890 ppm	0.4965 ppm	0.4985 ppm	0.5037 ppm	0.4786 ppm	4.9228 ppm	0.4994 ppm
Concentration per Run 2	0.4871 ppm	0.4937 ppm	0.4976 ppm	0.5033 ppm	0.5227 ppm	5.3606 ppm	0.4976 ppm
Concentration per Run 3	0.4908 ppm	0.4975 ppm	0.5027 ppm	0.5069 ppm	0.5317 ppm	5.4330 ppm	0.5062 ppm
Recovery Percentage 1	97.787 %	99.173 %	99.917 %	100.933 %	102.194 %	104.776 %	100.208 %
Concentration RSD	0.4 %	0.4 %	0.5 %	0.4 %	5.6 %	5.3 %	0.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5028 ppm	0.4820 ppm	10.0686 ppm	0.5005 ppm	0.4945 ppm	0.4844 ppm	0.4948 ppm
Concentration per Run 1	0.4698 ppm	0.4813 ppm	9.4555 ppm	0.5011 ppm	0.4943 ppm	0.4817 ppm	0.4948 ppm
Concentration per Run 2	0.5164 ppm	0.4799 ppm	10.3373 ppm	0.4979 ppm	0.4916 ppm	0.4828 ppm	0.4931 ppm
Concentration per Run 3	0.5222 ppm	0.4848 ppm	10.4131 ppm	0.5024 ppm	0.4975 ppm	0.4886 ppm	0.4964 ppm
Recovery Percentage 1	100.558 %	96.403 %	100.686 %	100.093 %	98.896 %	96.877 %	98.954 %
Concentration RSD	5.7 %	0.5 %	5.3 %	0.5 %	0.6 %	0.8 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1492 ppm	0.4823 ppm	0.4860 ppm	0.4864 ppm	0.4967 ppm	0.4899 ppm	0.4902 ppm
Concentration per Run 1	5.1529 ppm	0.4827 ppm	0.4553 ppm	0.4845 ppm	0.4962 ppm	0.4903 ppm	0.4902 ppm
Concentration per Run 2	5.1349 ppm	0.4794 ppm	0.4987 ppm	0.4854 ppm	0.4959 ppm	0.4875 ppm	0.4879 ppm
Concentration per Run 3	5.1599 ppm	0.4847 ppm	0.5039 ppm	0.4895 ppm	0.4980 ppm	0.4919 ppm	0.4924 ppm
Recovery Percentage 1	102.984 %	96.459 %	97.194 %	97.286 %	99.341 %	97.977 %	98.035 %
Concentration RSD	0.3 %	0.6 %	5.5 %	0.5 %	0.2 %	0.5 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.5187 %	100.5779 %	100.5234 %	103.1800 %	102.4698 %	103.3010 %
Concentration per Run 1	105.6057 %	100.8328 %	100.5814 %	108.1094 %	102.6642 %	103.5520 %
Concentration per Run 2	98.2961 %	100.4008 %	101.0475 %	101.4158 %	102.9454 %	103.1730 %
Concentration per Run 3	97.6544 %	100.5002 %	99.9414 %	100.0149 %	101.7999 %	103.1781 %
Recovery Percentage 1						
Concentration RSD	4.4 %	0.2 %	0.6 %	4.2 %	0.6 %	0.2 %

ICP DataTrace 6

8/2/2023 11:52:37 PM



LabBook: WG1810702_08022023t6.imexp

Sample: CCB
 Analysis started at: 8/2/2023 11:40:51 PM
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0042 ppm	-0.0009 ppm	-0.0036 ppm	0.0000 ppm	0.0002 ppm	-0.0019 ppm
Concentration per Run 1	0.0001 ppm	0.0009 ppm	-0.0007 ppm	-0.0036 ppm	-0.0003 ppm	0.0002 ppm	0.0072 ppm
Concentration per Run 2	-0.0004 ppm	0.0134 ppm	-0.0021 ppm	-0.0035 ppm	0.0001 ppm	0.0000 ppm	-0.0133 ppm
Concentration per Run 3	0.0009 ppm	-0.0016 ppm	0.0002 ppm	-0.0037 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm
Recovery Percentage 1	3.144 %	4.242 %	-17.739 %	-11.945 %	-0.451 %	3.273 %	-1.948 %
Concentration RSD	297.8 %	189.2 %	131.4 %	2.1 %	449.0 %	74.2 %	535.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0732 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0047 ppm	0.0700 ppm	0.0035 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	-0.0024 ppm	0.0979 ppm	0.0014 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0009 ppm	-0.0002 ppm	-0.0027 ppm	0.0517 ppm	-0.0023 ppm
Recovery Percentage 1	-0.230 %	-0.279 %	2.292 %	1.225 %	-0.296 %	2.929 %	0.870 %
Concentration RSD	619.8 %	111.0 %	253.4 %	207.6 %	2,848.7 %	31.8 %	340.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0004 ppm	0.0008 ppm	0.0153 ppm	0.0005 ppm	0.0001 ppm	0.0022 ppm	0.0040 ppm
Concentration per Run 1	-0.0004 ppm	0.0010 ppm	0.0227 ppm	0.0007 ppm	-0.0005 ppm	0.0035 ppm	0.0018 ppm
Concentration per Run 2	-0.0006 ppm	0.0007 ppm	0.0055 ppm	0.0002 ppm	0.0001 ppm	0.0011 ppm	0.0037 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0176 ppm	0.0006 ppm	0.0007 ppm	0.0020 ppm	0.0065 ppm
Recovery Percentage 1	-3.502 %	1.575 %	0.764 %	2.005 %	1.109 %	4.378 %	39.710 %
Concentration RSD	81.2 %	29.5 %	57.8 %	52.2 %	541.4 %	55.2 %	59.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0004 ppm	0.0015 ppm	0.0000 ppm	0.0008 ppm	0.0005 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	-0.0005 ppm	0.0014 ppm	0.0000 ppm	0.0006 ppm	0.0022 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 2	-0.0002 ppm	0.0013 ppm	0.0002 ppm	0.0003 ppm	-0.0010 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 3	-0.0006 ppm	0.0017 ppm	-0.0001 ppm	0.0015 ppm	0.0002 ppm	0.0005 ppm	-0.0001 ppm
Recovery Percentage 1	-0.081 %	2.919 %	0.272 %	7.965 %	2.391 %	3.964 %	1.172 %
Concentration RSD	50.1 %	16.7 %	601.7 %	77.0 %	339.6 %	33.6 %	190.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.6854 %	101.2128 %	101.0012 %	100.2469 %	101.2433 %	101.8921 %
Concentration per Run 1	104.0180 %	101.1755 %	101.0571 %	104.4307 %	101.3253 %	101.9415 %
Concentration per Run 2	98.1028 %	101.5295 %	101.2116 %	99.0430 %	101.4304 %	102.1049 %
Concentration per Run 3	96.9354 %	100.9335 %	100.7347 %	97.2669 %	100.9741 %	101.6298 %
Recovery Percentage 1						
Concentration RSD	3.8 %	0.3 %	0.2 %	3.7 %	0.2 %	0.2 %

QC True Values: Trace 4,5,6,7

	Element	True Value (mg/L)		Element	True Value (mg/L)
ICV/CCV	Al	0.50	CRI	Al	0.40
	K	5.00		Sb	0.10
	Na	10.00		As	0.02
	Si	5.25		Ba	0.04
ICSA	Al	250	Be	0.01	
	Ca	250	Bi	0.02	
	Fe	100	B	0.10	
	Mg	250	Cd	0.01	
ICSB	Al	9.00	Ca	0.40	
	Sb	1.00	Cr	0.02	
	As	1.00	Co	0.10	
	Ba	0.30	Cu	0.05	
	Be	0.10	Fe	0.20	
	Bi	1.00	Pb	0.05	
	B	0.50	Mg	0.40	
	Cd	0.30	Mn	0.03	
	Ca	45.00	Mo	0.10	
	Cr	0.30	Ni	0.08	
	Co	0.30	K	5.00	
	Cu	0.30	Se	0.02	
	Fe	37.50	Si	1.00	
	Pb	1.00	Ag	0.02	
	Mg	22.50	Na	5.00	
	Mn	0.20	Sr	0.02	
	Mo	0.30	Tl	0.02	
	Ni	0.30	Sn	0.02	
	K	20.00	Ti	0.02	
	Se	0.50	V	0.10	
	Si	1.23	Zn	0.04	
	Ag	0.30			
	Na	7.50			
	Sr	1.00			
	Tl	1.00			
	Sn	1.00			
	Ti	1.00			
	V	0.30			
	Zn	0.30			

LCS & MS Spike Concentrations

Element	Liquid concentrations (mg/L)	Soil concentrations (mg/kg)
Al	2.00	100
Sb	0.50	25.0
As	0.12	6.0
Ba	2.00	100
Be	0.05	2.5
Bi	1.00	50.0
B	1.00	50.0
Cd	0.05	2.55
Ca	10.00	500
Cr	0.20	10.0
Co	0.50	25.0
Cu	0.25	12.5
Fe	1.00	50.0
Pb	0.51	25.5
Mg	10.00	500
Mn	0.50	25.0
Mo	1.00	50.0
Ni	0.50	25.0
K	10.00	500
Se	0.12	6.0
Si	1.00	50.0
Ag	0.05	2.5
Na	10.00	500
Sr	1.00	50.0
Tl	0.12	6.0
Sn	1.00	50.0
Ti	1.00	50.0
V	0.50	25.0
Zn	0.50	25.0

LCS and MS Spike Concentrations—As of 08/09/2011

Element	Liquid Concentration(mg/L)	Soil Concentration (mg/kg)
Al	2.00	160
Sb	0.50	40
As	0.12	9.6
Ba	2.00	160
Be	0.05	4.0
Bi	1.00	80
B	1.00	80
Cd	0.051	4.08
Ca	10.0	800
Cr	0.20	16
Co	0.50	40
Cu	0.25	20
Fe	1.00	80
Pb	0.51	40.8
Mg	10.0	800
Mn	0.50	40
Mo	1.00	80
Ni	0.50	40
K	10.0	800
Se	0.12	9.6
Si	1.00	80
Ag	0.05	24
Na	10.0	800
Sr	1.00	80
Tl	0.12	9.6
Sn	1.00	80
Ti	1.00	80
V	0.50	40
Zn	0.50	40

Revised 8/9/11 Soil spike is based on $(2 \times \text{water spike}) \times (50/1.25)$, where 50 is the final volume of soil digestate and 1.25 is the nominal digestion weight of 1.25g, except in the case of Ag, where additional Ag is added to the spike.

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No.: D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.

Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck




ISO/IEC GUIDE 34:2009

ISO/IEC 17025:2005



▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No.: D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
		mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.

Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

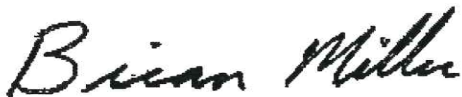
If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck




ISO/IEC 17025:2005

ISO/IEC 17025:2005


 REFERENCE MATERIALS DIVISION
 CERTIFICATE NO. 153923

 CHEMICAL TESTING LABORATORY
 CERTIFICATE NO. 139332



A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No.: D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value ⁷	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

Certified Reference Material

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Reference Value ⁷	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

▪ Certificate of Analysis ▪

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number ⁶	Recovery
		mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

▪ **Certificate of Analysis** ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.
2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:

$$U_{expanded} = k * \text{SQRT}((U_{char})^2 + (U_{homogen})^2 + (ULTS)^2 + (USTS)^2 + (URSS)^2)$$

Where:

 - $U_{expanded}$ = Expanded uncertainty.
 - k = Coverage factor.
 - U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
 - $U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
 - ULTS = Standard uncertainty associated with long-term stability.
 - USTS = Standard uncertainty associated with short-term (transport) stability.
 - URSS = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).
3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.
4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.
5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.
6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%) = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100**
 The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.
7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.
8. **Metrological Traceability.** This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.
9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck







A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION



Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

Certified Reference Material

▪ **Certificate of Analysis** ▪

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

Calculation of 6010B Metals

Aqueous Samples

The instrument will calculate the concentration ($\mu\text{g/L}$). This value is divided by 1000 to convert the units to mg/L . If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})$$

Where:

C_s = Concentration of sample ($\mu\text{g/L}$)

DF = Dilution Factor

Soil or Solid Samples

Soil samples are calculated as follows:

$$\text{Result, mg/Kg} = \frac{C_s \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})}{A}$$

Where:

C_s = Concentration of sample ($\mu\text{g/L}$)

DF = Dilution Factor

$$A = \frac{\text{Sample weight (grams)}}{\text{Final Volume (mL)}}$$

Dry weight correction

Dry weight correction is calculated as follows:

$$\text{Final concentration in mg/Kg, dry weight} = \frac{\text{Result, mg/Kg}}{\%_{\text{solids}}}$$

Where:

$\%_{\text{solids}}$ = Percent Solids, as a decimal value

Sequence Trace 6

8/2/2023 11:53:00 PM



LabBook: WG1810702_08022023t6.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank DMB Trace6	0	1	8/2/2023 7:02:01 AM
2	ICAL	0	2	8/2/2023 7:06:32 AM
3	ICV	0	5	8/2/2023 7:10:46 AM
4	ICB	0	7	8/2/2023 7:15:06 AM
5	ICV	0	5	8/2/2023 7:19:40 AM
6	ICB	0	7	8/2/2023 7:24:00 AM
7	0.0025	1	1	8/2/2023 7:28:35 AM
8	IPC	0	8	8/2/2023 7:33:04 AM
9	0.05	1	4	8/2/2023 7:37:37 AM
10	ICSA	0	6	8/2/2023 7:42:02 AM
11	0.005	1	2	8/2/2023 7:46:35 AM
12	0.01	1	3	8/2/2023 7:51:05 AM
13	0.05	1	5	8/2/2023 8:13:48 AM
14	CCV	0	5	8/2/2023 8:20:21 AM
15	CCB	0	7	8/2/2023 8:24:41 AM
16	WG1810397-1 WG1810397	1	6	8/2/2023 8:36:43 AM
17	WG1810397-2 WG1810397	1	7	8/2/2023 8:41:15 AM
18	L2342308-18 WG1810397	1	13	8/2/2023 8:45:34 AM
19	L2342308-19 WG1810397	1	14	8/2/2023 8:50:01 AM
20	L2342308-20 WG1810397	1	15	8/2/2023 8:54:26 AM
21	L2342308-17 WG1810397	1	8	8/2/2023 8:58:51 AM
22	WG1810397-3 WG1810397	1	9	8/2/2023 9:03:18 AM
23	WG1810397-4 WG1810397	1	10	8/2/2023 9:07:36 AM
24	WG1810397-5 WG1810397	1	11	8/2/2023 9:12:04 AM
25	WG1810397-6D5 WG1810397	1	12	8/2/2023 9:16:22 AM
26	CCV	0	5	8/2/2023 9:20:52 AM
27	CCB	0	7	8/2/2023 9:25:13 AM
28	WG1802988-1 WG1802988	1	17	8/2/2023 9:38:27 AM
29	WG1802988-2d2 WG1802988	1	18	8/2/2023 9:42:59 AM
30	L2342308-21 WG1810397	1	16	8/2/2023 9:47:14 AM
31	I2339397-02 WG1802988	1	24	8/2/2023 9:51:41 AM
32	I2339423-01d2 WG1802988	1	25	8/2/2023 9:56:04 AM
33	I2339907-02d2 WG1802988	1	19	8/2/2023 10:00:23 AM
34	WG1802988-3d2 WG1802988	1	20	8/2/2023 10:04:48 AM
35	WG1802988-4d2 WG1802988	1	21	8/2/2023 10:09:07 AM
36	WG1802988-5d2 WG1802988	1	22	8/2/2023 10:13:26 AM
37	WG1802988-6d10 WG1802988	1	23	8/2/2023 10:17:45 AM
38	CCV	0	5	8/2/2023 10:22:12 AM
39	CCB	0	7	8/2/2023 10:26:33 AM
40	I2339423-02d2 WG1802988	1	26	8/2/2023 10:55:27 AM
41	I2339423-03d2 WG1802988	1	27	8/2/2023 10:59:55 AM
42	I2339423-04d2 WG1802988	1	28	8/2/2023 11:04:23 AM
43	I2339430-01d2 WG1802988	1	29	8/2/2023 11:08:43 AM
44	I2339907-03d2 WG1802988	1	30	8/2/2023 11:13:10 AM
45	I2339907-04d2 WG1802988	1	31	8/2/2023 11:17:30 AM
46	I2339907-05d2 WG1802988	1	32	8/2/2023 11:27:56 AM
47	I2339907-06d2 WG1802988	1	33	8/2/2023 11:32:17 AM
48	I2339907-07d2 WG1802988	1	34	8/2/2023 11:36:41 AM
49	I2339907-09d2 WG1802988	1	35	8/2/2023 11:41:04 AM
50	CCV	0	5	8/2/2023 11:45:29 AM
51	CCB	0	7	8/2/2023 11:49:50 AM
52	CCV	0	5	8/2/2023 12:12:30 PM
53	CCB	0	7	8/2/2023 12:16:50 PM
54	Blank DMB Trace6	0	1	8/2/2023 1:02:22 PM
55	ICAL	0	2	8/2/2023 1:06:52 PM
56	ICV	0	5	8/2/2023 1:11:06 PM
57	ICB	0	7	8/2/2023 1:15:26 PM
58	ICV	0	5	8/2/2023 1:20:11 PM
59	ICB	0	7	8/2/2023 1:24:31 PM
60	WG1802973-1 WG1802973	1	38	8/2/2023 1:29:06 PM
61	WG1802973-2 WG1802973	1	39	8/2/2023 1:33:38 PM
62	I2339965-06D2 WG1802988	1	36	8/2/2023 1:37:51 PM
63	I2339965-07D2 WG1802988	1	37	8/2/2023 1:42:31 PM
64	I2339294-02 WG1802973	1	45	8/2/2023 1:47:08 PM
65	L2339294-01 WG1802973	1	40	8/2/2023 1:51:37 PM
66	WG1802973-3 WG1802973	1	41	8/2/2023 1:56:04 PM
67	WG1802973-4 WG1802973	1	42	8/2/2023 2:00:29 PM
68	WG1802973-5 WG1802973	1	43	8/2/2023 2:04:57 PM
69	WG1802973-6d5 WG1802973	1	44	8/2/2023 2:09:21 PM
70	CCV	0	5	8/2/2023 2:13:46 PM
71	CCB	0	7	8/2/2023 2:18:07 PM
72	L2339294-03 WG1802973	1	46	8/2/2023 2:22:42 PM

Sequence Trace 6

8/2/2023 11:53:00 PM



Index:	Label:	Rack	Vial	Start time:
73	L2339294-04 WG1802973	1	47	8/2/2023 2:27:11 PM
74	L2339399-01 WG1802973	1	48	8/2/2023 2:31:34 PM
75	L2339399-04 WG1802973	1	49	8/2/2023 2:36:10 PM
76	L2339399-05 WG1802973	1	50	8/2/2023 2:40:43 PM
77	L2339399-07 WG1802973	1	51	8/2/2023 2:45:15 PM
78	I2339399-08 WG1802973	1	52	8/2/2023 2:49:49 PM
79	I2339399-13 WG1802973	1	53	8/2/2023 2:54:21 PM
80	I2339399-16 WG1802973	1	54	8/2/2023 2:58:54 PM
81	I2339399-19 WG1802973	1	55	8/2/2023 3:03:28 PM
82	CCV	0	5	8/2/2023 3:08:02 PM
83	CCB	0	7	8/2/2023 3:12:23 PM
84	I2339399-20 WG1802973	1	56	8/2/2023 3:17:51 PM
85	I2339399-25 WG1802973	1	57	8/2/2023 3:22:24 PM
86	I2339423-03d2 WG1802988	1	27	8/2/2023 3:26:49 PM
87	I2339423-04d2 WG1802988	1	28	8/2/2023 3:31:17 PM
88	I2339430-01d2 WG1802988	1	29	8/2/2023 3:35:38 PM
89	I2339907-03d2 WG1802988	1	30	8/2/2023 3:40:06 PM
90	I2339907-04d2 WG1802988	1	31	8/2/2023 3:44:26 PM
91	I2339907-05d2 WG1802988	1	32	8/2/2023 3:48:48 PM
92	I2339907-06d2 WG1802988	1	33	8/2/2023 3:53:11 PM
93	I2339423-02d10 WG1802988	1	58	8/2/2023 3:57:35 PM
94	CCV	0	5	8/2/2023 4:01:59 PM
95	CCB	0	7	8/2/2023 4:06:20 PM
96	CCV	0	5	8/2/2023 4:21:06 PM
97	CCB	0	7	8/2/2023 4:25:27 PM
98	I2339332-01 WG1802475	1	60	8/2/2023 4:31:27 PM
99	I2339332-02 WG1802475	2	1	8/2/2023 4:35:54 PM
100	I2339415-02 WG1802475	2	2	8/2/2023 4:40:23 PM
101	I2339419-02 WG1802475	2	3	8/2/2023 4:44:48 PM
102	I2339428-02 WG1802475	2	4	8/2/2023 4:49:14 PM
103	I2339599-02 WG1802475	2	5	8/2/2023 4:53:40 PM
104	I2339907-07d2 WG1802988	1	34	8/2/2023 4:58:14 PM
105	I2339907-09d2 WG1802988	1	35	8/2/2023 5:02:38 PM
106	I2339965-06D10 WG1802988	1	59	8/2/2023 5:07:04 PM
107	CCV	0	5	8/2/2023 5:11:30 PM
108	CCB	0	7	8/2/2023 5:15:51 PM
109	CCV	0	5	8/2/2023 5:33:22 PM
110	CCB	0	7	8/2/2023 5:37:43 PM
111	Blank CEY Trace6	0	1	8/2/2023 5:47:02 PM
112	ICAL	0	2	8/2/2023 5:51:33 PM
113	ICV	0	5	8/2/2023 5:55:47 PM
114	ICB	0	7	8/2/2023 6:00:08 PM
115	ICV	0	5	8/2/2023 6:11:27 PM
116	ICB	0	7	8/2/2023 6:15:47 PM
117	WG1810714-1 WG1810714	2	6	8/2/2023 6:24:08 PM
118	WG1810714-2 WG1810714	2	7	8/2/2023 6:28:40 PM
119	WG1810714-3 WG1810714	2	8	8/2/2023 6:32:55 PM
120	I2344051-01 WG1810714	2	9	8/2/2023 6:37:09 PM
121	I2344055-01 WG1810714	2	10	8/2/2023 6:41:34 PM
122	I2344070-01 WG1810714	2	11	8/2/2023 6:45:58 PM
123	I2344070-02 WG1810714	2	12	8/2/2023 6:50:28 PM
124	I2344070-03 WG1810714	2	13	8/2/2023 6:54:52 PM
125	I2344070-04 WG1810714	2	14	8/2/2023 6:59:18 PM
126	I2344070-05 WG1810714	2	15	8/2/2023 7:03:39 PM
127	CCV	0	5	8/2/2023 7:08:10 PM
128	CCB	0	7	8/2/2023 7:12:31 PM
129	CCV	0	5	8/2/2023 7:51:57 PM
130	CCB	0	7	8/2/2023 7:56:18 PM
131	Blank CEY Trace6	0	1	8/2/2023 8:24:26 PM
132	ICAL	0	2	8/2/2023 8:28:57 PM
133	ICV	0	5	8/2/2023 8:33:11 PM
134	ICB	0	7	8/2/2023 8:37:32 PM
135	ICV	0	5	8/2/2023 8:47:13 PM
136	ICB	0	7	8/2/2023 8:51:34 PM
137	I2344136-01 WG1810714	2	16	8/2/2023 9:04:58 PM
138	I2344320-01 WG1810714	2	17	8/2/2023 9:09:25 PM
139	I2344352-01 WG1810714	2	18	8/2/2023 9:13:53 PM
140	I2343082-03 WG1808456	2	19	8/2/2023 9:18:22 PM
141	WG1808456-4 WG1808456	2	20	8/2/2023 9:22:47 PM
142	WG1808456-5D5 WG1808456	2	21	8/2/2023 9:27:06 PM
143	CCV	0	5	8/2/2023 9:31:36 PM
144	CCB	0	7	8/2/2023 9:35:57 PM
145	CCV	0	5	8/2/2023 9:51:41 PM
146	CCB	0	7	8/2/2023 9:56:01 PM

Sequence Trace 6

8/2/2023 11:53:00 PM



Index:	Label:	Rack	Vial	Start time:
147	Blank CEY Trace6	0	1	8/2/2023 10:13:23 PM
148	ICAL	0	2	8/2/2023 10:17:55 PM
149	ICV	0	5	8/2/2023 10:22:09 PM
150	ICB	0	7	8/2/2023 10:26:30 PM
151	ICV	0	5	8/2/2023 10:34:24 PM
152	ICB	0	7	8/2/2023 10:38:44 PM
153	wg1809856-1 wg1809856	2	22	8/2/2023 11:00:54 PM
154	wg1809856-2 wg1809856	2	23	8/2/2023 11:05:27 PM
155	L2342679-02 wg1809856	2	29	8/2/2023 11:09:47 PM
156	L2342679-01 wg1809856	2	24	8/2/2023 11:14:18 PM
157	wg1809856-3 wg1809856	2	25	8/2/2023 11:18:49 PM
158	wg1809856-4 wg1809856	2	26	8/2/2023 11:23:08 PM
159	wg1809856-5 wg1809856	2	27	8/2/2023 11:27:37 PM
160	wg1809856-6D5 wg1809856	2	28	8/2/2023 11:31:56 PM
161	CCV	0	5	8/2/2023 11:36:29 PM
162	CCB	0	7	8/2/2023 11:40:51 PM
163	TEST ICSA 1202 DMB	2	30	
164	TEST 005 0821 JTS	2	31	
165	TEST PS 1828 AMW	2	33	
166	TEST ICAL 1854 AMW	2	32	
167	CCV	0	5	
168	CCB	0	7	
169	0.0025	1	1	
170	IPC	0	8	
171	0.005	1	2	
172	0.05	1	4	
173	ICSA	0	6	
174	0.01	1	3	
175	CCV	0	5	
176	CCB	0	7	



METALS ELN REPORT

Workgroup: WG1802988

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Srm Spikelot	Use Srm For Use Srm For Use Srm For Use Srm For
EPA 3050B	HCL	22370036	HNO3	22460101	METALS	METSPIKE3	FM23260802	METSPIKE3	IPS2320161	D119-540	Y 335,293,141
							04FAC		005PAC		

Additional Reagent/Std	M23-1074B
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Sample/Type	Digestion Date	Analyst	Sample Weight g	Balance Id	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2339397-02 SOLID	07/13/23 23:15	Faustina Owusu	1.299	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339423-01 SOIL	07/13/23 23:15	Faustina Owusu	1.288	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339423-02 SOIL	07/13/23 23:15	Faustina Owusu	1.267	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339423-03 SOIL	07/13/23 23:15	Faustina Owusu	1.280	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339423-04 SOIL	07/13/23 23:15	Faustina Owusu	1.283	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339430-01 SOIL	07/13/23 23:15	Faustina Owusu	1.299	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339907-02 SOIL	07/13/23 23:15	Faustina Owusu	1.293	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339907-03 SOIL	07/13/23 23:15	Faustina Owusu	1.289	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339907-04 SOIL	07/13/23 23:15	Faustina Owusu	1.304	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339907-05 SOIL	07/13/23 23:15	Faustina Owusu	1.295	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339907-06 SOIL	07/13/23 23:15	Faustina Owusu	1.277	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339907-07 SOIL	07/13/23 23:15	Faustina Owusu	1.297	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339907-09 SOIL	07/13/23 23:15	Faustina Owusu	1.285	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	



METALS ELN REPORT

Workgroup: WG1802988

Sample/Type	Digestion Date	Analyst	Sample Weight g	Balance Id	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2339913-01 SOIL	07/13/23 23:15	Faustina Owusu	1.281	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339913-02 SOIL	07/13/23 23:15	Faustina Owusu	1.303	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339913-03 SOIL	07/13/23 23:15	Faustina Owusu	1.282	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339913-04 SOIL	07/13/23 23:15	Faustina Owusu	1.264	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339913-05 SOIL	07/13/23 23:15	Faustina Owusu	1.298	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339965-06 SOIL	07/13/23 23:15	Faustina Owusu	1.252	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
L2339965-07 SOIL	07/13/23 23:15	Faustina Owusu	1.279	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
WG1802988-1 BLANK	07/13/23 23:15	Faustina Owusu	1.250	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	ELN:FAC
WG1802988-2 LCS	07/13/23 23:15	Faustina Owusu	0.389	26	0.389	07/13/23 23:15	4	95.4	07/14/23 00:15	50	
WG1802988-3 MS	07/13/23 23:15	Faustina Owusu	1.308	26	1	07/13/23 23:15	4	95.4	07/14/23 00:15	50	
WG1802988-4 MSD	07/13/23 23:15	Faustina Owusu	1.297	26	1	07/13/23 23:15	4	95.4	07/14/23 00:15	50	
WG1802988-5 PS	07/13/23 23:15	Faustina Owusu	1.293	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	
WG1802988-6 SERDIL	07/13/23 23:15	Faustina Owusu	1.293	26		07/13/23 23:15	4	95.4	07/14/23 00:15	50	

Workgroup: WG1802988

Reagent	Actual Volume	Units
Nitric Acid (HNO ₃)	2	ml
Hydrochloric Acid (HCl)	3	ml

Inorganic Data (Mercury Analysis)

Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-03	Date Collected : 07/11/23 15:45
Client ID : TP-03-0.5-2 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/04/23 18:19
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DMB
Lab File ID : WG1811760.pdf	Instrument ID : NIC2
Sample Amount : 0.372g	%Solids : 83
Digestion Method : EPA 7471B	Date Digested : 07/14/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.484	0.081	0.053	



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-04	Date Collected : 07/12/23 08:00
Client ID : TP-04-0.5-2.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/04/23 18:22
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DMB
Lab File ID : WG1811760.pdf	Instrument ID : NIC2
Sample Amount : 0.362g	%Solids : 79
Digestion Method : EPA 7471B	Date Digested : 07/14/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.358	0.087	0.057	



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-05	Date Collected : 07/12/23 09:30
Client ID : TP-05-0.5-2.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/04/23 18:25
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DMB
Lab File ID : WG1811760.pdf	Instrument ID : NIC2
Sample Amount : 0.376g	%Solids : 82
Digestion Method : EPA 7471B	Date Digested : 07/14/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.590	0.081	0.053	



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-06	Date Collected : 07/12/23 10:40
Client ID : TP-06-0.4-3 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/04/23 18:35
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DMB
Lab File ID : WG1811760.pdf	Instrument ID : NIC2
Sample Amount : 0.315g	%Solids : 62
Digestion Method : EPA 7471B	Date Digested : 07/14/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.128	0.084	U



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-07	Date Collected : 07/11/23 11:45
Client ID : TP-07-2.0-4.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/04/23 18:39
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DMB
Lab File ID : WG1811760.pdf	Instrument ID : NIC2
Sample Amount : 0.335g	%Solids : 84
Digestion Method : EPA 7471B	Date Digested : 07/14/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.118	0.088	0.058	



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-09	Date Collected : 07/11/23 00:00
Client ID : BD-01-3-4 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/04/23 18:42
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DMB
Lab File ID : WG1811760.pdf	Instrument ID : NIC2
Sample Amount : 0.36g	%Solids : 91
Digestion Method : EPA 7471B	Date Digested : 07/14/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.077	0.050	U



Form 1 METALS

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-02	Date Collected : 07/11/23 14:30
Client ID : TP-02-3-4FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 08/04/23 12:17
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DHL
Lab File ID : WG1811883.pdf	Instrument ID : NIC4
Sample Amount : 0.352g	%Solids : 89
Digestion Method : EPA 7471B	Date Digested : 07/14/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.080	0.052	U



Form 1 METALS

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Lab ID : WG1802991-1
Client ID : WG1802991-1BLANK
Sample Location :
Sample Matrix : SOIL
Analytical Method : 1,7471B
Lab File ID : WG1811883.pdf
Sample Amount : 0.3g
Digestion Method : EPA 7471B

Lab Number : L2339907
Project Number : 2230119
Date Collected : NA
Date Received : NA
Date Analyzed : 08/04/23 12:11
Dilution Factor : 1
Analyst : DHL
Instrument ID : NIC4
%Solids : NA
Date Digested : 07/14/23

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.083	0.054	U



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : NIC2

Lab Number : L2339907
 Project Number : 2230119
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
	Lab ID : R1726105-1			R1726105-3			R1726105-5		R1726105-7	
	Date Analyzed: 08/04/23 07:13			08/04/23 09:17			08/04/23 10:16		08/04/23 10:53	
Mercury	0.00300	0.0028	93	0.0100	0.00990	99	0.00990	99	0.00990	99

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : NIC2

Lab Number : L2339907
 Project Number : 2230119
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Mercury				0.0100	0.00990	99	0.00940	94	0.00960	96

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : NIC2

Lab Number : L2339907
 Project Number : 2230119
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Mercury				0.0100	0.00920	92	0.00940	94	0.00930	93

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : NIC4

Lab Number : L2339907
 Project Number : 2230119
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Mercury	0.00300	0.0029	95	0.0100	0.0100	100	0.0100	100		

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 3 Blanks

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : NIC2

Lab Number : L2339907
 Project Number : 2230119

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	Q	
Mercury	0.000326	U	0.000326	U	0.000326	U	0.000326	U



Form 3 Blanks

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : NIC2

Lab Number : L2339907
 Project Number : 2230119

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	Q	
Lab ID :			R1726105-10		R1726105-12		R1726105-14	
Date Analyzed:			08/04/23 12:00		08/04/23 13:56		08/04/23 16:24	
Mercury			0.000326 U		0.000326 U		0.000326 U	



Form 3 Blanks

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : NIC2

Lab Number : L2339907
 Project Number : 2230119

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	Q	
Lab ID :			R1726105-16		R1726105-18		R1726105-20	
Date Analyzed:			08/04/23 17:19		08/04/23 18:32		08/04/23 20:06	
Mercury			0.000326 U		0.000326 U		0.000326 U	



Form 3 Blanks

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : NIC4

Lab Number : L2339907
 Project Number : 2230119

Parameter	Initial Calibration		Continuing Calibration				Preparation	
	Blank		Blank(s)				Blank	
Lab ID :	R1726244-2		R1726244-4		R1726244-6		WG1802991-1	
Date Analyzed:	08/04/23 11:17		08/04/23 12:24		08/04/23 13:18		08/04/23 12:11	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/kg	Q
Mercury	0.000326	U	0.000326	U	0.000326	U	0.054	U



Form 5a Matrix Spike

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Client Sample ID : TP-02-3-4FT
Lab Sample ID : L2339907-02
Matrix Spike : WG1802991-3
Matrix Spike Dup : WG1802991-4

Lab Number : L2339907
Project Number : 2230119
Matrix : SOLID
MS Analysis Date : 08/04/23 12:27
MSD Analysis Date : 08/04/23 12:31

Parameter	Sample Conc. (mg/kg)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R			
Mercury, Total	ND	1.63	1.63	100	1.66	1.61	97	1	80-120	20



Form 7 Laboratory Control Sample

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Client Sample ID : NA
Lab Sample ID : WG1802991-2
Dup Sample ID :

Lab Number : L2339907
Project Number : 2230119
Matrix : SOLID
LCS Analysis Date : 08/04/23 12:14
LCSD Analysis Date:

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/kg)	Found (mg/kg)	%R	True (mg/kg)	Found (mg/kg)	%R			
Mercury, Total	18.2	14.6	80.					73-127	20



Form 12 Preparation Log

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Matrix : SOIL

Lab Number : L2339907
Project Number : 2230119
Prep Method : EPA 7471B

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2339907-03	07/14/23 00:15	0.37	-
L2339907-04	07/14/23 00:15	0.36	-
L2339907-05	07/14/23 00:15	0.38	-
L2339907-06	07/14/23 00:15	0.32	-
L2339907-07	07/14/23 00:15	0.34	-
L2339907-09	07/14/23 00:15	0.36	-



Form 12 Preparation Log

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Matrix : SOIL

Lab Number : L2339907
Project Number : 2230119
Prep Method : EPA 7471B

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2339907-02	07/14/23 00:15	0.35	-
WG1802991-1	07/14/23 00:15	0.30	-
WG1802991-2	07/14/23 00:15	0.16	-
WG1802991-3	07/14/23 00:15	0.35	-
WG1802991-4	07/14/23 00:15	0.34	-



Form 13 Analysis Run Log

Client : LaBella Associates, P.C.
 Project Name : PH II INVESTIGATION
 Instrument ID : NIC2
 Start Date : 08/04/23 07:13

Lab Number : L2339907
 Project Number : 2230119
 Analysis Method : 1,7471B
 End Date : 08/04/23 20:06

Sample Number	Dilution Factor	Analysis Time	Mercury, Total																			
R1726105-1 ICV	1	07:13:36	X																			
R1726105-2 ICB	1	07:19:34	X																			
R1726105-3 CCV	1	09:17:32	X																			
R1726105-4 CCB	1	09:20:50	X																			
R1726105-5 CCV	1	10:16:06	X																			
R1726105-6 CCB	1	10:19:25	X																			
R1726105-7 CCV	1	10:53:42	X																			
R1726105-8 CCB	1	10:57:00	X																			
R1726105-9 CCV	1	11:56:45	X																			
R1726105-10 CCB	1	12:00:03	X																			
R1726105-11 CCV	1	13:52:46	X																			
R1726105-12 CCB	1	13:56:03	X																			
R1726105-13 CCV	1	16:17:55	X																			
R1726105-14 CCB	1	16:24:37	X																			
R1726105-15 CCV	1	17:16:39	X																			
R1726105-16 CCB	1	17:19:59	X																			
L2339907-03	1	18:19:03	X																			
L2339907-04	1	18:22:22	X																			
L2339907-05	1	18:25:42	X																			
R1726105-17 CCV	1	18:29:02	X																			
R1726105-18 CCB	1	18:32:22	X																			
L2339907-06	1	18:35:41	X																			
L2339907-07	1	18:39:01	X																			
L2339907-09	1	18:42:21	X																			
R1726105-19 CCV	1	20:03:14	X																			
R1726105-20 CCB	1	20:06:31	X																			



Form 13 Analysis Run Log

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Instrument ID : NIC4
Start Date : 08/04/23 11:14

Lab Number : L2339907
Project Number : 2230119
Analysis Method : 1,7471B
End Date : 08/04/23 13:18

Sample Number	Dilution Factor	Analysis Time	Mercury, Total																	
R1726244-1 ICV	1	11:14:29	X																	
R1726244-2 ICB	1	11:17:49	X																	
WG1802991-1 BLANK	1	12:11:12	X																	
WG1802991-2 LCS	5	12:14:32	X																	
L2339907-02	1	12:17:52	X																	
R1726244-3 CCV	1	12:21:12	X																	
R1726244-4 CCB	1	12:24:30	X																	
WG1802991-3 MS	1	12:27:49	X																	
WG1802991-4 MSD	1	12:31:07	X																	
R1726244-5 CCV	1	13:15:14	X																	
R1726244-6 CCB	1	13:18:33	X																	





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File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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File: PM9836-1
Page: 1

METALS by 7470A (WATER)

Table with 13 columns: Analyte, CAS #, RL, MDL, Units, LCS Criteria, LCS RPD, MS Criteria, MS RPD, Duplicate RPD, Surrogate Criteria, Holding Time, Container/Sample Preservation. Row 1: Mercury, Total, 7439-97-6, 0.0002, 0.0000915, mg/l, 80-120, 75-125, 20, 20, 28 days, 1 - Plastic 500ml HNO3 preserved.

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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 Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserv

*Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.*



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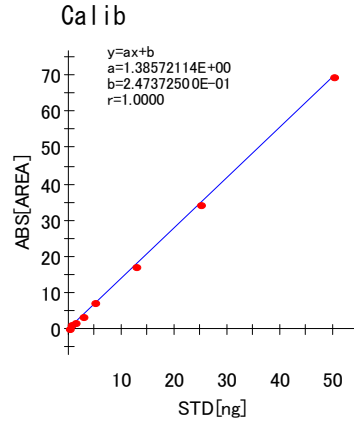
Title :
 Date : 8/4/2023
 Name :

Method

STD
 HONH3Cl : 0.0mL
 (1+1) H2SO4 : 0.0mL
 10w/v% SnCl2 : 0.3mL

SMP
 HONH3Cl : 0.0mL
 (1+1) H2SO4 : 0.0mL
 10w/v% SnCl2 : 0.3mL

Measurement Time (sec) : 120sec



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.3659	0.0855	-	08/04/2023 06:47	DMB,NIC2
2	0.200	2.500	2.500	2.500	0.500	1.0126	0.5522	10.4	08/04/2023 06:50	DMB,NIC2
3	0.500	2.500	2.500	2.500	1.250	1.9351	1.2179	2.6	08/04/2023 06:53	DMB,NIC2
4	1.000	2.500	2.500	2.500	2.500	3.6257	2.4380	2.5	08/04/2023 06:57	DMB,NIC2
5	2.000	2.500	2.500	2.500	5.000	7.3316	5.1123	2.2	08/04/2023 07:00	DMB,NIC2
6	5.000	2.500	2.500	2.500	12.500	17.5111	12.4583	0.3	08/04/2023 07:03	DMB,NIC2
7	10.000	2.500	2.500	2.500	25.000	34.5666	24.7663	0.9	08/04/2023 07:06	DMB,NIC2
8	20.000	2.500	2.500	2.500	50.000	69.6989	50.1194	0.2	08/04/2023 07:10	DMB,NIC2

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	9.9010	6.9665	2.787	-	08/04/2023 07:13	DMB,NIC2
2	ICB	2.500	2.500	2.500	0.3821	0.0972	0.039	-	08/04/2023 07:19	DMB,NIC2
3	0.2 PPB	2.500	2.500	2.500	1.0357	0.5689	0.228	-	08/04/2023 07:22	DMB,NIC2
4	0.5 PPB	2.500	2.500	2.500	1.9481	1.2273	0.491	-	08/04/2023 07:26	DMB,NIC2

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
5	L2344136-01 wg1810708	2.500	2.500	2.500	0.2317	-0.0113	-0.005	-	08/04/2023 07:43	DMB,NIC2
6	L2344320-01 wg1810708	2.500	2.500	2.500	11.7313	8.2873	3.315	-	08/04/2023 07:47	DMB,NIC2
7	L2344352-01 wg1810708	2.500	2.500	2.500	2.6861	1.7599	0.704	-	08/04/2023 07:50	DMB,NIC2
8	wg1809836-1 wg1809836	2.500	2.500	2.500	0.1424	-0.0758	-0.030	-	08/04/2023 09:00	DMB,NIC2
9	wg1809836-2D5 wg1809836	2.500	2.500	2.500	37.5097	26.8902	10.756	-	08/04/2023 09:04	DMB,NIC2
10	L2343800-01 wg1809836	2.500	2.500	2.500	0.2948	0.0342	0.014	-	08/04/2023 09:07	DMB,NIC2
11	wg1809836-3 wg1809836	2.500	2.500	2.500	28.1696	20.1500	8.060	-	08/04/2023 09:10	DMB,NIC2
12	wg1809836-4 wg1809836	2.500	2.500	2.500	28.3163	20.2558	8.102	-	08/04/2023 09:14	DMB,NIC2
13	Check STD(10ug/L)	2.500	2.500	2.500	34.5813	24.7769	9.911	99.1	08/04/2023 09:17	DMB,NIC2
14	Check Blank	2.500	2.500	2.500	0.4262	0.1291	0.052	-	08/04/2023 09:20	DMB,NIC2
15	PS 800-01	2.500	2.500	2.500	34.8431	24.9659	9.986	-	08/04/2023 09:24	DMB,NIC2
16	L2342313-02 wg1809836	2.500	2.500	2.500	2.5587	1.6680	0.667	-	08/04/2023 09:27	DMB,NIC2
17	L2343637-01 wg1809836	2.500	2.500	2.500	10.3578	7.2961	2.918	-	08/04/2023 09:30	DMB,NIC2
18	L2343776-01 wg1809836	2.500	2.500	2.500	0.6436	0.2859	0.114	-	08/04/2023 09:34	DMB,NIC2
19	L2343776-02 wg1809836	2.500	2.500	2.500	0.3486	0.0731	0.029	-	08/04/2023 09:37	DMB,NIC2
20	L2343776-03 wg1809836	2.500	2.500	2.500	0.3693	0.0880	0.035	-	08/04/2023 09:40	DMB,NIC2
21	wg1809972-1 wg1809972	2.500	2.500	2.500	0.0811	-0.1200	-0.048	-	08/04/2023 10:02	DMB,NIC2
22	wg1809972-2D5 wg1809972	2.500	2.500	2.500	34.6184	24.8037	9.921	-	08/04/2023 10:06	DMB,NIC2
23	L2342537-01 wg1809972	2.500	2.500	2.500	1.1951	0.6839	0.274	-	08/04/2023 10:09	DMB,NIC2
24	wg1809972-3 wg1809972	2.500	2.500	2.500	35.9889	25.7927	10.317	-	08/04/2023 10:12	DMB,NIC2
25	Check STD(10ug/L)	2.500	2.500	2.500	34.6457	24.8234	9.929	99.3	08/04/2023 10:16	DMB,NIC2
26	Check Blank	2.500	2.500	2.500	0.4259	0.1288	0.052	-	08/04/2023 10:19	DMB,NIC2
27	wg1809972-4 wg1809972	2.500	2.500	2.500	1.4414	0.8617	0.345	-	08/04/2023 10:22	DMB,NIC2
28	PS 537-01	2.500	2.500	2.500	35.1994	25.2230	10.089	-	08/04/2023 10:26	DMB,NIC2
29	L2342537-02 wg1809972	2.500	2.500	2.500	1.8294	1.1417	0.457	-	08/04/2023 10:29	DMB,NIC2
30	L2342537-03 wg1809972	2.500	2.500	2.500	0.1754	-0.0519	-0.021	-	08/04/2023 10:32	DMB,NIC2
31	L2342537-04 wg1809972	2.500	2.500	2.500	0.1552	-0.0665	-0.027	-	08/04/2023 10:35	DMB,NIC2
32	L2342537-05 wg1809972	2.500	2.500	2.500	0.3731	0.0907	0.036	-	08/04/2023 10:39	DMB,NIC2
33	L2342537-06 wg1809972	2.500	2.500	2.500	3.2266	2.1499	0.860	-	08/04/2023 10:42	DMB,NIC2
34	L2342537-07 wg1809972	2.500	2.500	2.500	1.0741	0.5966	0.239	-	08/04/2023 10:45	DMB,NIC2
35	L2342537-08 wg1809972	2.500	2.500	2.500	0.1396	-0.0778	-0.031	-	08/04/2023 10:49	DMB,NIC2
36	Check STD(10ug/L)	2.500	2.500	2.500	34.4878	24.7095	9.884	98.8	08/04/2023 10:53	DMB,NIC2

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
37	Check Blank	2.500	2.500	2.500	0.4240	0.1275	0.051	-	08/04/2023 10:57	DMB,NIC2
38	wg1809962-1 wg1809962	2.500	2.500	2.500	0.3223	0.0541	0.022	-	08/04/2023 11:23	DMB,NIC2
39	wg1809962-2D5 wg1809962	2.500	2.500	2.500	34.2396	24.5304	9.812	-	08/04/2023 11:27	DMB,NIC2
40	wg1809962-3D5 wg1809962	2.500	2.500	2.500	35.2401	25.2524	10.101	-	08/04/2023 11:30	DMB,NIC2
41	L2343221-01 wg1809962	2.500	2.500	2.500	0.3977	0.1085	0.043	-	08/04/2023 11:33	DMB,NIC2
42	L2343221-02 wg1809962	2.500	2.500	2.500	0.3814	0.0967	0.039	-	08/04/2023 11:36	DMB,NIC2
43	L2343721-01 wg1809962	2.500	2.500	2.500	0.8532	0.4372	0.175	-	08/04/2023 11:40	DMB,NIC2
44	L2343772-01 wg1809962	2.500	2.500	2.500	0.6852	0.3160	0.126	-	08/04/2023 11:43	DMB,NIC2
45	L2343787-01 wg1809962	2.500	2.500	2.500	0.9916	0.5371	0.215	-	08/04/2023 11:46	DMB,NIC2
46	L2343787-02 wg1809962	2.500	2.500	2.500	0.6502	0.2907	0.116	-	08/04/2023 11:50	DMB,NIC2
47	L2343793-01 wg1809962	2.500	2.500	2.500	0.5391	0.2105	0.084	-	08/04/2023 11:53	DMB,NIC2
48	Check STD(10ug/L)	2.500	2.500	2.500	34.5938	24.7860	9.914	99.1	08/04/2023 11:56	DMB,NIC2
49	Check Blank	2.500	2.500	2.500	0.4200	0.1246	0.050	-	08/04/2023 12:00	DMB,NIC2
50	L2343819-01 wg1809962	2.500	2.500	2.500	41.7968	29.9840	11.994	-	08/04/2023 12:03	DMB,NIC2
51	L2343819-03 wg1809962	2.500	2.500	2.500	10.4343	7.3514	2.941	-	08/04/2023 12:06	DMB,NIC2
52	L2339670-01 WG1803363	2.500	2.500	2.500	19.5878	13.9569	5.583	-	08/04/2023 13:36	DMB,NIC2
53	L2339670-02 WG1803363	2.500	2.500	2.500	18.0761	12.8660	5.146	-	08/04/2023 13:39	DMB,NIC2
54	L2339679-01 WG1803363	2.500	2.500	2.500	3.0209	2.0015	0.801	-	08/04/2023 13:42	DMB,NIC2
55	L2339679-03 WG1803363	2.500	2.500	2.500	2.0390	1.2929	0.517	-	08/04/2023 13:46	DMB,NIC2
56	L2339679-05 WG1803363	2.500	2.500	2.500	3.6526	2.4574	0.983	-	08/04/2023 13:49	DMB,NIC2
57	Check STD(10ug/L)	2.500	2.500	2.500	32.9508	23.6003	9.440	94.4	08/04/2023 13:52	DMB,NIC2
58	Check Blank	2.500	2.500	2.500	0.4146	0.1207	0.048	-	08/04/2023 13:56	DMB,NIC2
59	L2339913-01 wg1802991	2.500	2.500	2.500	0.1200	-0.0919	-0.037	-	08/04/2023 14:59	DMB,NIC2
60	L2339913-02 wg1802991	2.500	2.500	2.500	2.4971	1.6235	0.649	-	08/04/2023 15:02	DMB,NIC2
61	L2339913-03 wg1802991	2.500	2.500	2.500	0.4514	0.1472	0.059	-	08/04/2023 15:05	DMB,NIC2
62	L2339913-04 wg1802991	2.500	2.500	2.500	0.2757	0.0204	0.008	-	08/04/2023 15:09	DMB,NIC2
63	L2339913-05 wg1802991	2.500	2.500	2.500	2.0758	1.3195	0.528	-	08/04/2023 15:12	DMB,NIC2
64	L2340426-01 wg1804619	2.500	2.500	2.500	0.3323	0.0613	0.025	-	08/04/2023 15:15	DMB,NIC2
65	L2340426-02 wg1804619	2.500	2.500	2.500	0.4693	0.1602	0.064	-	08/04/2023 15:19	DMB,NIC2
66	L2339718-01 wg1802969	2.500	2.500	2.500	4.7633	3.2589	1.304	-	08/04/2023 15:55	DMB,NIC2
67	L2339718-02 wg1802969	2.500	2.500	2.500	12.0825	8.5408	3.416	-	08/04/2023 15:58	DMB,NIC2
68	L2339718-03 wg1802969	2.500	2.500	2.500	13.2317	9.3701	3.748	-	08/04/2023 16:02	DMB,NIC2

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
69	Check STD(10ug/L)	2.500	2.500	2.500	33.4817	23.9834	9.593	95.9	08/04/2023 16:17	DJR,NIC2
70	Check Blank	2.500	2.500	2.500	0.4003	0.1104	0.044	-	08/04/2023 16:24	DJR,NIC2
71	L2339718-04 wg1802969	2.500	2.500	2.500	1.2916	0.7536	0.301	-	08/04/2023 16:27	DJR,NIC2
72	L2339718-05 wg1802969	2.500	2.500	2.500	5.7533	3.9733	1.589	-	08/04/2023 16:31	DJR,NIC2
73	L2339718-06 wg1802969	2.500	2.500	2.500	0.8500	0.4349	0.174	-	08/04/2023 16:34	DJR,NIC2
74	L2339718-07 wg1802969	2.500	2.500	2.500	0.7351	0.3520	0.141	-	08/04/2023 16:37	DJR,NIC2
75	L2339718-08 wg1802969	2.500	2.500	2.500	1.2985	0.7585	0.303	-	08/04/2023 16:41	DJR,NIC2
76	Check STD(10ug/L)	2.500	2.500	2.500	32.2669	23.1068	9.243	92.4	08/04/2023 17:16	DJR,NIC2
77	Check Blank	2.500	2.500	2.500	0.4061	0.1145	0.046	-	08/04/2023 17:19	DJR,NIC2
78	L2339907-03 wg1802991	2.500	2.500	2.500	10.6490	7.5063	3.003	-	08/04/2023 18:19	DJR,NIC2
79	L2339907-04 wg1802991	2.500	2.500	2.500	7.3336	5.1137	2.045	-	08/04/2023 18:22	DJR,NIC2
80	L2339907-05 wg1802991	2.500	2.500	2.500	12.8558	9.0988	3.640	-	08/04/2023 18:25	DJR,NIC2
81	Check STD(10ug/L)	2.500	2.500	2.500	32.6892	23.4115	9.365	93.7	08/04/2023 18:29	DJR,NIC2
82	Check Blank	2.500	2.500	2.500	0.4061	0.1145	0.046	-	08/04/2023 18:32	DJR,NIC2
83	L2339907-06 wg1802991	2.500	2.500	2.500	1.1402	0.6443	0.258	-	08/04/2023 18:35	DJR,NIC2
84	L2339907-07 wg1802991	2.500	2.500	2.500	2.5566	1.6664	0.667	-	08/04/2023 18:39	DJR,NIC2
85	L2339907-09 wg1802991	2.500	2.500	2.500	0.3166	0.0500	0.020	-	08/04/2023 18:42	DJR,NIC2
86	L2340216-02 wg1803403	2.500	2.500	2.500	1.3494	0.7953	0.318	-	08/04/2023 18:45	DJR,NIC2
87	L2340216-04 wg1803403	2.500	2.500	2.500	0.5728	0.2348	0.094	-	08/04/2023 18:49	DJR,NIC2
88	L2340216-06 wg1803403	2.500	2.500	2.500	0.4628	0.1555	0.062	-	08/04/2023 18:52	DJR,NIC2
89	L2340216-10 wg1803403	2.500	2.500	2.500	0.3651	0.0850	0.034	-	08/04/2023 18:55	DJR,NIC2
90	L2340216-12 wg1803403	2.500	2.500	2.500	0.4111	0.1182	0.047	-	08/04/2023 18:58	DJR,NIC2
91	L2340252-01 wg1803403	2.500	2.500	2.500	0.3522	0.0756	0.030	-	08/04/2023 19:02	DJR,NIC2
92	wg1811723-1 wg1811723	2.500	2.500	2.500	0.1302	-0.0846	-0.034	-	08/04/2023 19:59	DJR,NIC2
93	Check STD(10ug/L)	2.500	2.500	2.500	32.3969	23.2006	9.280	92.8	08/04/2023 20:03	DJR,NIC2
94	Check Blank	2.500	2.500	2.500	0.4042	0.1132	0.045	-	08/04/2023 20:06	DJR,NIC2
95	wg1811723-2D5 wg1811723	2.500	2.500	2.500	34.7217	24.8783	9.951	-	08/04/2023 20:09	DJR,NIC2
96	L2342757-01 wg1811723	2.500	2.500	2.500	0.5130	0.1917	0.077	-	08/04/2023 20:13	DJR,NIC2
97	wg1811723-3 wg1811723	2.500	2.500	2.500	34.8709	24.9859	9.994	-	08/04/2023 20:16	DJR,NIC2
98	wg1811723-4 wg1811723	2.500	2.500	2.500	0.5072	0.1875	0.075	-	08/04/2023 20:19	DJR,NIC2
99	PS 757-01	2.500	2.500	2.500	34.4597	24.6892	9.876	-	08/04/2023 20:23	DJR,NIC2
100	L2342757-02 wg1811723	2.500	2.500	2.500	6.0972	4.2215	1.689	-	08/04/2023 20:26	DJR,NIC2

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
101	L2342757-03 wg1811723	2.500	2.500	2.500	1.0581	0.5851	0.234	-	08/04/2023 20:29	DJR,NIC2
102	L2343533-02 wg1811723	2.500	2.500	2.500	0.2344	-0.0094	-0.004	-	08/04/2023 20:32	DJR,NIC2
103	L2343533-10 wg1811723	2.500	2.500	2.500	0.9746	0.5248	0.210	-	08/04/2023 20:36	DJR,NIC2
104	L2344066-08 wg1811723	2.500	2.500	2.500	0.4139	0.1202	0.048	-	08/04/2023 20:39	DJR,NIC2
105	Check STD(10ug/L)	2.500	2.500	2.500	32.7722	23.4714	9.389	93.9	08/04/2023 20:42	DJR,NIC2
106	Check Blank	2.500	2.500	2.500	0.4075	0.1156	0.046	-	08/04/2023 20:46	DJR,NIC2
107	L2344673-01 wg1811723	2.500	2.500	2.500	3.3795	2.2603	0.904	-	08/04/2023 20:49	DJR,NIC2
108	WG1808623-1 WG1808623	2.500	2.500	2.500	0.0737	-0.1253	-0.050	-	08/04/2023 21:59	DJR,NIC2
109	WG1808623-2D5 WG1808623	2.500	2.500	2.500	34.3144	24.5843	9.834	-	08/04/2023 22:03	DJR,NIC2
110	WG1808623-3D5 WG1808623	2.500	2.500	2.500	35.0729	25.1317	10.053	-	08/04/2023 22:06	DJR,NIC2
111	I2342778-01 WG1808623	2.500	2.500	2.500	29.6105	21.1898	8.476	-	08/04/2023 22:09	DJR,NIC2
112	I2342778-02 WG1808623	2.500	2.500	2.500	16.1173	11.4525	4.581	-	08/04/2023 22:12	DJR,NIC2
113	I2342778-03 WG1808623	2.500	2.500	2.500	0.4963	0.1796	0.072	-	08/04/2023 22:16	DJR,NIC2
114	I2342778-04 WG1808623	2.500	2.500	2.500	10.5281	7.4190	2.968	-	08/04/2023 22:19	DJR,NIC2
115	I2342778-05 WG1808623	2.500	2.500	2.500	6.8621	4.7735	1.909	-	08/04/2023 22:22	DJR,NIC2
116	I2342778-06 WG1808623	2.500	2.500	2.500	58.4256	41.9841	16.794	-	08/04/2023 22:26	DJR,NIC2
117	Check STD(10ug/L)	2.500	2.500	2.500	32.5769	23.3305	9.332	93.3	08/04/2023 22:29	DJR,NIC2
118	Check Blank	2.500	2.500	2.500	0.4068	0.1151	0.046	-	08/04/2023 22:32	DJR,NIC2
119	I2342778-07 WG1808623	2.500	2.500	2.500	9.0686	6.3658	2.546	-	08/04/2023 22:36	DJR,NIC2
120	I2342778-08 WG1808623	2.500	2.500	2.500	3.7777	2.5476	1.019	-	08/04/2023 22:39	DJR,NIC2
121	I2342778-09 WG1808623	2.500	2.500	2.500	0.3612	0.0821	0.033	-	08/04/2023 22:42	DJR,NIC2
122	I2342778-10 WG1808623	2.500	2.500	2.500	17.7428	12.6255	5.050	-	08/04/2023 22:45	DJR,NIC2
123	I2342778-11 WG1808623	2.500	2.500	2.500	9.4507	6.6415	2.657	-	08/04/2023 22:49	DJR,NIC2
124	I2342778-12 WG1808623	2.500	2.500	2.500	4.8471	3.3194	1.328	-	08/04/2023 22:52	DJR,NIC2
125	Check STD(10ug/L)	2.500	2.500	2.500	32.9057	23.5677	9.427	94.3	08/04/2023 22:57	DJR,NIC2
126	Check Blank	2.500	2.500	2.500	0.4064	0.1148	0.046	-	08/04/2023 23:00	DJR,NIC2
127	WG1811764-1 WG1811764	2.500	2.500	2.500	0.0925	-0.1118	-0.045	-	08/05/2023 00:12	DJR,NIC2
128	WG1811764-2D5 WG1811764	2.500	2.500	2.500	32.8421	23.5219	9.409	-	08/05/2023 00:16	DJR,NIC2
129	Check STD(10ug/L)	2.500	2.500	2.500	34.2102	24.5091	9.804	98.0	08/05/2023 00:19	DJR,NIC2
130	Check Blank	2.500	2.500	2.500	0.3753	0.0923	0.037	-	08/05/2023 00:22	DJR,NIC2
131	WG1811764-3D5 WG1811764	2.500	2.500	2.500	34.9156	25.0182	10.007	-	08/05/2023 00:26	DJR,NIC2
132	I2344932-01 WG1811764	2.500	2.500	2.500	0.1895	-0.0418	-0.017	-	08/05/2023 00:29	DJR,NIC2

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
133	I2344944-01 WG1811764	2.500	2.500	2.500	0.2766	0.0211	0.008	-	08/05/2023 00:32	DJR,NIC2
134	I2344944-03 WG1811764	2.500	2.500	2.500	0.2228	-0.0177	-0.007	-	08/05/2023 00:35	DJR,NIC2
135	Check STD(10ug/L)	2.500	2.500	2.500	34.8365	24.9611	9.984	99.8	08/05/2023 00:39	DJR,NIC2
136	Check Blank	2.500	2.500	2.500	0.3751	0.0922	0.037	-	08/05/2023 00:42	DJR,NIC2

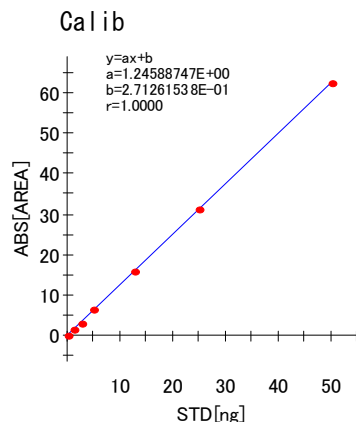
Title :
 Date : 8/4/2023
 Name :

Method

STD
 HONH3Cl : 0.0mL
 (1+1) H2SO4 : 0.0mL
 10w/v% SnCl2 : 0.3mL

SMP
 HONH3Cl : 0.0mL
 (1+1) H2SO4 : 0.0mL
 10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.3354	0.0515	-	08/04/2023 10:49	DHL,NIC4
2	0.500	2.500	2.500	2.500	1.250	1.7637	1.1979	4.2	08/04/2023 10:52	DHL,NIC4
3	1.000	2.500	2.500	2.500	2.500	3.2479	2.3892	4.4	08/04/2023 10:55	DHL,NIC4
4	2.000	2.500	2.500	2.500	5.000	6.6557	5.1244	2.5	08/04/2023 10:59	DHL,NIC4
5	5.000	2.500	2.500	2.500	12.500	15.8642	12.5155	0.1	08/04/2023 11:02	DHL,NIC4
6	10.000	2.500	2.500	2.500	25.000	31.3711	24.9620	0.2	08/04/2023 11:05	DHL,NIC4
7	20.000	2.500	2.500	2.500	50.000	62.5775	50.0095	0.0	08/04/2023 11:08	DHL,NIC4

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	9.1654	7.1388	2.856	-	08/04/2023 11:14	DHL,NIC4
2	ICB	2.500	2.500	2.500	0.3452	0.0593	0.024	-	08/04/2023 11:17	DHL,NIC4
3	0.5 PPB	2.500	2.500	2.500	1.7741	1.2062	0.482	-	08/04/2023 11:21	DHL,NIC4
4	I2340788-01 WG1804696	2.500	2.500	2.500	0.5382	0.2143	0.086	-	08/04/2023 11:54	DHL,NIC4
5	I2340788-02 WG1804696	2.500	2.500	2.500	1.6785	1.1295	0.452	-	08/04/2023 11:57	DHL,NIC4

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
6	I2340788-03 WG1804696	2.500	2.500	2.500	3.8166	2.8456	1.138	-	08/04/2023 12:00	DHL,NIC4
7	I2340788-04 WG1804696	2.500	2.500	2.500	0.4477	0.1416	0.057	-	08/04/2023 12:04	DHL,NIC4
8	I2340788-05 WG1804696	2.500	2.500	2.500	1.3836	0.8928	0.357	-	08/04/2023 12:07	DHL,NIC4
9	WG1802991-1 WG1802991	2.500	2.500	2.500	0.2537	-0.0141	-0.006	-	08/04/2023 12:11	DHL,NIC4
10	WG1802991-2D5 WG1802991	2.500	2.500	2.500	28.8518	22.9399	9.176	-	08/04/2023 12:14	DHL,NIC4
11	I2339907-02 WG1802991	2.500	2.500	2.500	0.7533	0.3869	0.155	-	08/04/2023 12:17	DHL,NIC4
12	Check STD(10ug/L)	2.500	2.500	2.500	31.4371	25.0150	10.006	100.1	08/04/2023 12:21	DHL,NIC4
13	Check Blank	2.500	2.500	2.500	0.3797	0.0870	0.035	-	08/04/2023 12:24	DHL,NIC4
14	WG1802991-3 WG1802991	2.500	2.500	2.500	31.4107	24.9938	9.998	-	08/04/2023 12:27	DHL,NIC4
15	WG1802991-4 WG1802991	2.500	2.500	2.500	30.3187	24.1173	9.647	-	08/04/2023 12:31	DHL,NIC4
16	PS 907-02	2.500	2.500	2.500	31.6150	25.1578	10.063	-	08/04/2023 12:34	DHL,NIC4
17	I2339397-02 WG1802991	2.500	2.500	2.500	2.8523	2.0716	0.829	-	08/04/2023 12:37	DHL,NIC4
18	I2339423-01 WG1802991	2.500	2.500	2.500	15.5937	12.2984	4.919	-	08/04/2023 12:41	DHL,NIC4
19	XI2339423-02 WG1802991	2.500	2.500	2.500	H.CONC	H.CONC	H.CONC	-	08/04/2023 12:44	DHL,NIC4
20	I2339423-03 WG1802991	2.500	2.500	2.500	52.2601	41.7284	16.691	-	08/04/2023 12:50	DHL,NIC4
21	XI2339423-04 WG1802991	2.500	2.500	2.500	H.CONC	H.CONC	H.CONC	-	08/04/2023 12:53	DHL,NIC4
22	I2339430-01 WG1802991	2.500	2.500	2.500	0.2609	-0.0083	-0.003	-	08/04/2023 13:00	DHL,NIC4
23	I2339423-02D10 WG1802991	2.500	2.500	2.500	40.9311	32.6352	13.054	-	08/04/2023 13:11	DHL,NIC4
24	Check STD(10ug/L)	2.500	2.500	2.500	31.2973	24.9028	9.961	99.6	08/04/2023 13:15	DHL,NIC4
25	Check Blank	2.500	2.500	2.500	0.3787	0.0862	0.034	-	08/04/2023 13:18	DHL,NIC4
26	I2339423-04D10 WG1802991	2.500	2.500	2.500	24.5158	19.4597	7.784	-	08/04/2023 13:21	DHL,NIC4
27	WG1811480-1 WG1811480	2.500	2.500	2.500	0.0214	-0.2005	-0.080	-	08/04/2023 14:09	DHL,NIC4
28	WG1811480-2D5 WG1811480	2.500	2.500	2.500	32.0828	25.5332	10.213	-	08/04/2023 14:13	DHL,NIC4
29	I2344409-01 WG1811480	2.500	2.500	2.500	2.6300	1.8932	0.757	-	08/04/2023 14:16	DHL,NIC4
30	WG1811480-3 WG1811480	2.500	2.500	2.500	34.1191	27.1677	10.867	-	08/04/2023 14:19	DHL,NIC4
31	WG1811480-4 WG1811480	2.500	2.500	2.500	6.1100	4.6864	1.875	-	08/04/2023 14:23	DHL,NIC4
32	PS 4409-1	2.500	2.500	2.500	32.4531	25.8305	10.332	-	08/04/2023 14:26	DHL,NIC4
33	I2344409-02 WG1811480	2.500	2.500	2.500	1.0925	0.6592	0.264	-	08/04/2023 14:29	DHL,NIC4
34	I2344409-03 WG1811480	2.500	2.500	2.500	0.1565	-0.0921	-0.037	-	08/04/2023 14:33	DHL,NIC4
35	I2344409-04 WG1811480	2.500	2.500	2.500	0.1620	-0.0877	-0.035	-	08/04/2023 14:36	DHL,NIC4
36	Check STD(10ug/L)	2.500	2.500	2.500	31.4989	25.0646	10.026	100.3	08/04/2023 14:39	DHL,NIC4
37	Check Blank	2.500	2.500	2.500	0.3726	0.0813	0.033	-	08/04/2023 14:42	DHL,NIC4

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
38	I2344409-05 WG1811480	2.500	2.500	2.500	1.6840	1.1339	0.454	-	08/04/2023 14:46	DHL,NIC4
39	I2344409-06 WG1811480	2.500	2.500	2.500	1.5793	1.0499	0.420	-	08/04/2023 14:49	DHL,NIC4
40	I2344409-07 WG1811480	2.500	2.500	2.500	0.1852	-0.0691	-0.028	-	08/04/2023 14:52	DHL,NIC4
41	I2344409-08 WG1811480	2.500	2.500	2.500	0.4204	0.1197	0.048	-	08/04/2023 14:56	DHL,NIC4
42	I2344502-03 WG1811480	2.500	2.500	2.500	16.0425	12.6586	5.063	-	08/04/2023 14:59	DHL,NIC4
43	Check STD(10ug/L)	2.500	2.500	2.500	30.8473	24.5416	9.817	98.2	08/04/2023 15:39	DHL,NIC4
44	Check Blank	2.500	2.500	2.500	0.3698	0.0791	0.032	-	08/04/2023 15:43	DHL,NIC4

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No.: D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.

Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck




ISO/IEC GUIDE 34:2009

ISO/IEC 17025:2005





A Waters Company

Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No.: D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
		mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.

Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck





A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No.: D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value ⁷	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

Certified Reference Material

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Reference Value ⁷	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

▪ Certificate of Analysis ▪

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number ⁶	Recovery
		mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.
2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:

$$U_{\text{expanded}} = k * \text{SQRT}((U_{\text{char}})^2 + (U_{\text{homogen}})^2 + (U_{\text{LTS}})^2 + (U_{\text{STS}})^2 + (U_{\text{RSS}})^2)$$

Where:

 - U_{expanded} = Expanded uncertainty.
 - k = Coverage factor.
 - U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
 - U_{homogen} = Standard uncertainty of the homogeneity assessment.
 - U_{LTS} = Standard uncertainty associated with long-term stability.
 - U_{STS} = Standard uncertainty associated with short-term (transport) stability.
 - U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).
3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.
4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.
5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.
6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%) = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100**
 The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.
7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.
8. **Metrological Traceability.** This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.
9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck







A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION



Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

Certified Reference Material

▪ Certificate of Analysis ▪

Parameter	Certified Value¹	Reference Value	Uncertainty²	QC Performance Acceptance Limits³	PT Performance Acceptance Limits⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384



Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations

C = Sample/Standard Concentration, $\mu\text{g/L}$

k1 = y-intercept

k2 = slope

The instrument will plot peak height against concentration ($\mu\text{g/L}$). The result is generated in $\mu\text{g/L}$. This value is divided by 1000 to convert the units to mg/L . If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = (\text{concentration, } \mu\text{g/L}) \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})$$





Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve.
The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations

C = Sample/Standard Concentration, $\mu\text{g/L}$

k1 = y-intercept

k2 = slope

The instrument will plot peak height against concentration ($\mu\text{g/L}$).
The result is generated in $\mu\text{g/L}$. This value is divided by 1000 to convert the units to mg/L . If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = (\text{concentration, } \mu\text{g/L}) \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})$$

The result in mg/kg is calculated on a dry weight basis using the sample weight digested (Wt), the final volume of the digestate (FV), and the percent total solids (%TS).

$$\text{Result, mg/kg, wet} = ((\text{result, mg/L}) \times (\text{FV})) / \text{Wt}$$

$$\text{Result, mg/kg, dry wt} = (\text{Result, mg/kg wet}) / (\% \text{TS})$$

No.	Sample No	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
7	7	STD
8	8	STD
1	9	ICV
2	10	ICB
3	11	0.2 PPB
4	12	0.5 PPB
5	13	L2344136-01 wg1810708
6	14	L2344320-01 wg1810708
7	15	L2344352-01 wg1810708
8	16	wg1809836-1 wg1809836
9	17	wg1809836-2D5 wg1809836
10	18	L2343800-01 wg1809836
11	19	wg1809836-3 wg1809836
12	20	wg1809836-4 wg1809836
13	21	Check STD(10ug/L)
14	22	Check Blank
15	23	PS 800-01
16	24	L2342313-02 wg1809836
17	25	L2343637-01 wg1809836
18	26	L2343776-01 wg1809836
19	27	L2343776-02 wg1809836
20	28	L2343776-03 wg1809836
21	29	wg1809972-1 wg1809972
22	30	wg1809972-2D5 wg1809972
23	31	L2342537-01 wg1809972
24	32	wg1809972-3 wg1809972
25	33	Check STD(10ug/L)
26	34	Check Blank
27	35	wg1809972-4 wg1809972
28	36	PS 537-01
29	37	L2342537-02 wg1809972
30	38	L2342537-03 wg1809972
31	39	L2342537-04 wg1809972
32	40	L2342537-05 wg1809972
33	41	L2342537-06 wg1809972
34	42	L2342537-07 wg1809972
35	43	L2342537-08 wg1809972
36	45	Check STD(10ug/L)
37	46	Check Blank
38	47	wg1809962-1 wg1809962

39 48 wg1809962-2D5 wg1809962
40 49 wg1809962-3D5 wg1809962
41 50 L2343221-01 wg1809962
42 51 L2343221-02 wg1809962
43 52 L2343721-01 wg1809962
44 53 L2343772-01 wg1809962
45 54 L2343787-01 wg1809962
46 55 L2343787-02 wg1809962
47 56 L2343793-01 wg1809962
48 57 Check STD(10ug/L)
49 58 Check Blank
50 59 L2343819-01 wg1809962
51 60 L2343819-03 wg1809962
52 61 L2339670-01 WG1803363
53 62 L2339670-02 WG1803363
54 63 L2339679-01 WG1803363
55 64 L2339679-03 WG1803363
56 65 L2339679-05 WG1803363
57 69 Check STD(10ug/L)
58 70 Check Blank
59 71 L2339913-01 wg1802991
60 72 L2339913-02 wg1802991
61 73 L2339913-03 wg1802991
62 74 L2339913-04 wg1802991
63 75 L2339913-05 wg1802991
64 76 L2340426-01 wg1804619
65 77 L2340426-02 wg1804619
66 78 L2339718-01 wg1802969
67 79 L2339718-02 wg1802969
68 80 L2339718-03 wg1802969
69 1 Check STD(10ug/L)
70 2 Check Blank
71 3 L2339718-04 wg1802969
72 4 L2339718-05 wg1802969
73 5 L2339718-06 wg1802969
74 6 L2339718-07 wg1802969
75 7 L2339718-08 wg1802969
76 8 Check STD(10ug/L)
77 9 Check Blank
78 10 L2339907-03 wg1802991
79 11 L2339907-04 wg1802991
80 12 L2339907-05 wg1802991
81 13 Check STD(10ug/L)
82 14 Check Blank
83 15 L2339907-06 wg1802991
84 16 L2339907-07 wg1802991
85 17 L2339907-09 wg1802991

86 18 L2340216-02 wg1803403
87 19 L2340216-04 wg1803403
88 20 L2340216-06 wg1803403
89 21 L2340216-10 wg1803403
90 22 L2340216-12 wg1803403
91 23 L2340252-01 wg1803403
92 24 wg1811723-1 wg1811723
93 25 Check STD(10ug/L)
94 26 Check Blank
95 27 wg1811723-2D5 wg1811723
96 28 L2342757-01 wg1811723
97 29 wg1811723-3 wg1811723
98 30 wg1811723-4 wg1811723
99 31 PS 757-01
100 32 L2342757-02 wg1811723
101 33 L2342757-03 wg1811723
102 34 L2343533-02 wg1811723
103 35 L2343533-10 wg1811723
104 36 L2344066-08 wg1811723
105 37 Check STD(10ug/L)
106 38 Check Blank
107 39 L2344673-01 wg1811723
108 40 WG1808623-1 WG1808623
109 41 WG1808623-2D5 WG1808623
110 42 WG1808623-3D5 WG1808623
111 43 I2342778-01 WG1808623
112 44 I2342778-02 WG1808623
113 45 I2342778-03 WG1808623
114 46 I2342778-04 WG1808623
115 47 I2342778-05 WG1808623
116 48 I2342778-06 WG1808623
117 49 Check STD(10ug/L)
118 50 Check Blank
119 51 I2342778-07 WG1808623
120 52 I2342778-08 WG1808623
121 53 I2342778-09 WG1808623
122 54 I2342778-10 WG1808623
123 55 I2342778-11 WG1808623
124 56 I2342778-12 WG1808623
125 57 Check STD(10ug/L)
126 58 Check Blank
127 59 WG1811764-1 WG1811764
128 60 WG1811764-2D5 WG1811764
129 61 Check STD(10ug/L)
130 62 Check Blank
131 63 WG1811764-3D5 WG1811764
132 64 I2344932-01 WG1811764

133	65 I2344944-01 WG1811764
134	66 I2344944-03 WG1811764
135	67 Check STD(10ug/L)
136	68 Check Blank

No.	Sample No NAME
1	1 STD
2	3 STD
3	4 STD
4	5 STD
5	6 STD
6	7 STD
7	8 STD
1	9 ICV
2	10 ICB
3	12 0.5 PPB
4	13 I2340788-01 WG1804696
5	14 I2340788-02 WG1804696
6	15 I2340788-03 WG1804696
7	16 I2340788-04 WG1804696
8	17 I2340788-05 WG1804696
9	18 WG1802991-1 WG1802991
10	19 WG1802991-2D5 WG1802991
11	20 I2339907-02 WG1802991
12	21 Check STD(10ug/L)
13	22 Check Blank
14	23 WG1802991-3 WG1802991
15	24 WG1802991-4 WG1802991
16	25 PS 907-02
17	26 I2339397-02 WG1802991
18	27 I2339423-01 WG1802991
19	28 XI2339423-02 WG1802991
20	29 I2339423-03 WG1802991
21	30 XI2339423-04 WG1802991
22	31 I2339430-01 WG1802991
23	32 I2339423-02D10 WG1802991
24	33 Check STD(10ug/L)
25	34 Check Blank
26	35 I2339423-04D10 WG1802991
27	36 WG1811480-1 WG1811480
28	37 WG1811480-2D5 WG1811480
29	38 I2344409-01 WG1811480
30	39 WG1811480-3 WG1811480
31	40 WG1811480-4 WG1811480
32	41 PS 4409-1
33	42 I2344409-02 WG1811480
34	43 I2344409-03 WG1811480
35	44 I2344409-04 WG1811480
36	45 Check STD(10ug/L)
37	46 Check Blank
38	47 I2344409-05 WG1811480
39	48 I2344409-06 WG1811480

40	49 I2344409-07 WG1811480
41	50 I2344409-08 WG1811480
42	51 I2344502-03 WG1811480
43	57 Check STD(10ug/L)
44	58 Check Blank



METALS ELN REPORT

Workgroup: WG1802991

Digestion

Prep Method	Acid Type	Acid 1 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Srm Spikelot	Use Srm For	Pipette Id
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EPA 7471B	Aqua Regia	AR2328140000FAC	METALS	METSPIKE	HG2328101230JDHV1	METSPIKE	HG2328101230JDHV1	D119-540	Y	327
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Additional Reagent/Std		
	KMnO4	PP2328120500REB
	NaCl-NH2OH.HCl	HH2328112053DJR
		ICV2328112055CLH

Sample/Type	Digestion Date	Analyst	Sample Weight g	Balance Id	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2339397-02 SOLID	07/14/23 00:15	Faustina Owusu	0.326	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	
L2339423-01 SOIL	07/14/23 00:15	Faustina Owusu	0.349	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	
L2339423-02 SOIL	07/14/23 00:15	Faustina Owusu	0.330	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	
L2339423-03 SOIL	07/14/23 00:15	Faustina Owusu	0.352	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	
L2339423-04 SOIL	07/14/23 00:15	Faustina Owusu	0.324	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	
L2339430-01 SOIL	07/14/23 00:15	Faustina Owusu	0.320	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	
L2339907-02 SOIL	07/14/23 00:15	Faustina Owusu	0.352	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	
L2339907-03 SOIL	07/14/23 00:15	Faustina Owusu	0.372	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	
L2339907-04 SOIL	07/14/23 00:15	Faustina Owusu	0.362	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	
L2339907-05 SOIL	07/14/23 00:15	Faustina Owusu	0.376	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	
L2339907-06 SOIL	07/14/23 00:15	Faustina Owusu	0.315	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	
L2339907-07 SOIL	07/14/23 00:15	Faustina Owusu	0.335	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	



METALS ELN REPORT

Workgroup: WG1802991

Sample/Type	Digestion Date	Analyst	Sample Weight g	Balance Id	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2339907-09 SOIL	07/14/23 00:15	Faustina Owusu	0.360	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	
L2339913-01 SOIL	07/14/23 00:15	Faustina Owusu	0.363	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	
L2339913-02 SOIL	07/14/23 00:15	Faustina Owusu	0.372	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	
L2339913-03 SOIL	07/14/23 00:15	Faustina Owusu	0.356	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	
L2339913-04 SOIL	07/14/23 00:15	Faustina Owusu	0.337	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	
L2339913-05 SOIL	07/14/23 00:15	Faustina Owusu	0.312	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	
WG1802991-1 BLANK	07/14/23 00:15	Faustina Owusu	0.300	26		07/14/23 00:15	3	95.0	07/14/23 00:45	50	ELN:FAC
WG1802991-2 LCS	07/14/23 00:15	Faustina Owusu	0.157	26	0.157	07/14/23 00:15	3	95.0	07/14/23 00:45	50	
WG1802991-3 MS	07/14/23 00:15	Faustina Owusu	0.346	26	5	07/14/23 00:15	3	95.0	07/14/23 00:45	50	
WG1802991-4 MSD	07/14/23 00:15	Faustina Owusu	0.338	26	5	07/14/23 00:15	3	95.0	07/14/23 00:45	50	

Reagent	Actual Volume	Units
Aqua Regia	2.5	ml
Potassium Permanganat	7.5	ml
NaCl-Hydroxylamine Hy	3	ml

Wet Chemistry

Total Solids / Percent Moisture Analysis

Results

Form 1 WETCHEM

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-02	Date Collected : 07/11/23 14:30
Client ID : TP-02-3-4FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/13/23 10:57
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 121,2540G	Analyst : ROI
Lab File ID : WG1802704.pdf	Instrument ID : BALANCE#53
Sample Amount :	%Solids : 89
Digestion Method :	Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	88.8	0.100	NA	



Form 1 WETCHEM

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-03	Date Collected : 07/11/23 15:45
Client ID : TP-03-0.5-2 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/13/23 10:57
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 121,2540G	Analyst : ROI
Lab File ID : WG1802704.pdf	Instrument ID : BALANCE#53
Sample Amount :	%Solids : 83
Digestion Method :	Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	83.4	0.100	NA	



Form 1 WETCHEM

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-04	Date Collected : 07/12/23 08:00
Client ID : TP-04-0.5-2.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/13/23 10:57
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 121,2540G	Analyst : ROI
Lab File ID : WG1802704.pdf	Instrument ID : BALANCE#53
Sample Amount :	%Solids : 79
Digestion Method :	Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	79.0	0.100	NA	



Form 1 WETCHEM

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-05	Date Collected : 07/12/23 09:30
Client ID : TP-05-0.5-2.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/13/23 10:57
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 121,2540G	Analyst : ROI
Lab File ID : WG1802704.pdf	Instrument ID : BALANCE#53
Sample Amount :	%Solids : 82
Digestion Method :	Date Digested :

CAS NO.	Parameter	Results	RL	MDL	Qualifier
NONE	Solids, Total	82.1	0.100	NA	



Form 1 WETCHEM

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-06	Date Collected : 07/12/23 10:40
Client ID : TP-06-0.4-3 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/13/23 11:12
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 121,2540G	Analyst : ROI
Lab File ID : WG1802707.pdf	Instrument ID : BALANCE#53
Sample Amount :	%Solids : 62
Digestion Method :	Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	61.8	0.100	NA	



Form 1 WETCHEM

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-07	Date Collected : 07/11/23 11:45
Client ID : TP-07-2.0-4.5 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/13/23 11:12
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 121,2540G	Analyst : ROI
Lab File ID : WG1802707.pdf	Instrument ID : BALANCE#53
Sample Amount :	%Solids : 84
Digestion Method :	Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	84.4	0.100	NA	



Form 1 WETCHEM

Client : LaBella Associates, P.C.	Lab Number : L2339907
Project Name : PH II INVESTIGATION	Project Number : 2230119
Lab ID : L2339907-09	Date Collected : 07/11/23 00:00
Client ID : BD-01-3-4 FT	Date Received : 07/12/23
Sample Location : 42 YORK STREET, ROCHESTER NY	Date Analyzed : 07/13/23 11:12
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 121,2540G	Analyst : ROI
Lab File ID : WG1802707.pdf	Instrument ID : BALANCE#53
Sample Amount :	%Solids : 91
Digestion Method :	Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	90.5	0.100	NA	



Form 1 WETCHEM

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Lab ID : WG1802704-1
Client ID : TP-02-3-4FTDUP
Sample Location :
Sample Matrix : SOIL
Analytical Method : 121,2540G
Lab File ID : WG1802704.pdf
Sample Amount :
Digestion Method :

Lab Number : L2339907
Project Number : 2230119
Date Collected : 07/11/23 14:30
Date Received : 07/12/23
Date Analyzed : 07/13/23 10:57
Dilution Factor : 1
Analyst : ROI
Instrument ID : BALANCE#53
%Solids : 89
Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	88.2	0.100	NA	



Form 1 WETCHEM

Client : LaBella Associates, P.C.
Project Name : PH II INVESTIGATION
Lab ID : WG1802707-1
Client ID : WG1802707-1 DUP
Sample Location :
Sample Matrix : SOIL
Analytical Method : 121,2540G
Lab File ID : WG1802707.pdf
Sample Amount :
Digestion Method :

Lab Number : L2339907
Project Number : 2230119
Date Collected : 07/11/23 07:45
Date Received : 07/12/23
Date Analyzed : 07/13/23 11:12
Dilution Factor : 1
Analyst : ROI
Instrument ID : BALANCE#53
%Solids : 82
Date Digested :

CAS NO.	Parameter	%			Qualifier
		Results	RL	MDL	
NONE	Solids, Total	81.6	0.100	NA	



Sample Raw Data

WorkGroup WG1802704	Temp In (C) 105	Temp In (C)	Temp In (C)	Temp In (C)
Title Solids, Total	Temp Out (C) 105	Temp Out (C)	Temp Out (C)	Temp Out (C)
Method SM2540G	Time In 13-JUL-23 11:11	Time In	Time In	Time In
Instrument BALANCE#53	Time Out 13-JUL-23 16:12	Time Out	Time Out	Time Out
	Location OVEN11-M	Location	Location	Location

Sample #	Analysis Date	Analyst	Tare Weight (gm)	Gross Weight (gm)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Result %	Comment
L2339889-02	13-JUL-23 10:57	ROMANY IBRAHIM	1.21	8.62	7.42				83.81	
L2339889-03	13-JUL-23 10:57	ROMANY IBRAHIM	1.21	8.52	7.29				83.17	
L2339889-04	13-JUL-23 10:57	ROMANY IBRAHIM	1.19	8.66	7.46				83.94	
L2339889-05	13-JUL-23 10:57	ROMANY IBRAHIM	1.21	8.3	7.3				85.90	
L2339889-06	13-JUL-23 10:57	ROMANY IBRAHIM	1.2	8.96	7.54				81.70	
L2339889-07	13-JUL-23 10:57	ROMANY IBRAHIM	1.19	8.1	6.75				80.46	
L2339889-08	13-JUL-23 10:57	ROMANY IBRAHIM	1.17	8.6	7.33				82.91	
L2339889-09	13-JUL-23 10:57	ROMANY IBRAHIM	1.2	8.46	7.14				81.82	
L2339889-10	13-JUL-23 10:57	ROMANY IBRAHIM	1.19	8.82	7.03				76.54	
L2339889-11	13-JUL-23 10:57	ROMANY IBRAHIM	1.19	8.68	7.42				83.18	
L2339889-12	13-JUL-23 10:57	ROMANY IBRAHIM	1.22	8.2	7.37				88.11	
L2339889-13	13-JUL-23 10:57	ROMANY IBRAHIM	1.21	8.96	7.84				85.55	
L2339889-14	13-JUL-23 10:57	ROMANY IBRAHIM	1.21	8.41	7.17				82.78	
L2339889-15	13-JUL-23 10:57	ROMANY IBRAHIM	1.2	8.33	6.88				79.66	
L2339907-02	13-JUL-23 10:57	ROMANY IBRAHIM	1.21	8.46	7.65				88.83	
L2339907-03	13-JUL-23 10:57	ROMANY IBRAHIM	1.2	8.53	7.31				83.36	
L2339907-04	13-JUL-23 10:57	ROMANY IBRAHIM	1.18	8.4	6.88				78.95	
L2339907-05	13-JUL-23 10:57	ROMANY IBRAHIM	1.22	8.64	7.31				82.08	
L2339973-01	13-JUL-23 10:57	ROMANY IBRAHIM	1.2	9.01	8.4				92.19	
L2339973-02	13-JUL-23 10:57	ROMANY IBRAHIM	1.21	8.93	8.35				92.49	
WG1802704-1	13-JUL-23 10:57	ROMANY IBRAHIM	1.21	8.51	7.65				88.22	

WorkGroup WG1802707	Temp In (C) 105	Temp In (C)	Temp In (C)	Temp In (C)
Title Solids, Total	Temp Out (C) 105	Temp Out (C)	Temp Out (C)	Temp Out (C)
Method SM2540G	Time In 13-JUL-23 11:27	Time In	Time In	Time In
Instrument BALANCE#53	Time Out 13-JUL-23 17:50	Time Out	Time Out	Time Out
	Location OVEN11-H	Location	Location	Location

Sample #	Analysis Date	Analyst	Tare Weight (gm)	Gross Weight (gm)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Result %	Comment
L2339718-01	13-JUL-23 11:12	ROMANY IBRAHIM	1.17	8.15	6.88				81.81	
L2339718-02	13-JUL-23 11:12	ROMANY IBRAHIM	1.2	8.71	7.07				78.16	
L2339718-03	13-JUL-23 11:12	ROMANY IBRAHIM	1.17	8.44	6.8				77.44	
L2339718-04	13-JUL-23 11:12	ROMANY IBRAHIM	1.21	8.34	7.57				89.20	
L2339718-05	13-JUL-23 11:12	ROMANY IBRAHIM	1.19	8.71	6.59				71.81	
L2339718-06	13-JUL-23 11:12	ROMANY IBRAHIM	1.22	8.33	7.31				85.65	
L2339718-07	13-JUL-23 11:12	ROMANY IBRAHIM	1.21	8.77	7.61				84.66	
L2339718-08	13-JUL-23 11:12	ROMANY IBRAHIM	1.25	8.26	6.95				81.31	
L2339840-01	13-JUL-23 11:12	ROMANY IBRAHIM	1.22	8.54	7.91				91.39	
L2339845-01	13-JUL-23 11:12	ROMANY IBRAHIM	1.21	8.73	7.8				87.63	
L2339907-06	13-JUL-23 11:12	ROMANY IBRAHIM	1.2	8.67	5.82				61.85	
L2339907-07	13-JUL-23 11:12	ROMANY IBRAHIM	1.22	8.28	7.18				84.42	
L2339907-09	13-JUL-23 11:12	ROMANY IBRAHIM	1.2	8.16	7.5				90.52	
L2339909-01	13-JUL-23 11:12	ROMANY IBRAHIM	1.22	8.31	6.63				76.30	
L2339909-02	13-JUL-23 11:12	ROMANY IBRAHIM	1.21	8.66	7.05				78.39	
L2339913-01	13-JUL-23 11:12	ROMANY IBRAHIM	1.24	8.67	7.21				80.35	
L2339913-02	13-JUL-23 11:12	ROMANY IBRAHIM	1.2	8.7	7.17				79.60	
L2339913-03	13-JUL-23 11:12	ROMANY IBRAHIM	1.23	8.75	7.3				80.72	
L2339913-04	13-JUL-23 11:12	ROMANY IBRAHIM	1.2	8.44	7.27				83.84	
L2339913-05	13-JUL-23 11:12	ROMANY IBRAHIM	1.24	8.18	6.93				81.99	
WG1802707-1	13-JUL-23 11:12	ROMANY IBRAHIM	1.21	8.12	6.85				81.62	

Quality Control

Form 6 Lab Duplicates

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Client Sample ID	: TP-02-3-4FT	Matrix	: SOLID
Lab Sample ID	: L2339907-02	Analysis Date	: 07/13/23 10:57
Dup Sample ID	: WG1802704-1	DUP Analysis Date	: 07/13/23 10:57

Parameter	Sample Concentration (%)	Duplicate Concentration (%)	RPD	RPD Limit
Solids, Total	88.8	88.2	1	20



Form 6 Lab Duplicates

Client	: LaBella Associates, P.C.	Lab Number	: L2339907
Project Name	: PH II INVESTIGATION	Project Number	: 2230119
Client Sample ID	: NA	Matrix	: SOIL
Lab Sample ID	: NA	Analysis Date	: 07/13/23 11:12
Dup Sample ID	: WG1802707-1	DUP Analysis Date	: 07/13/23 11:12

Parameter	Sample Concentration (%)	Duplicate Concentration (%)	RPD	RPD Limit
Solids, Total	81.8	81.6	0	20





ANALYTICAL REPORT

Lab Number:	L2339895
Client:	LaBella Associates, P.C. 300 State Street Suite 201 Rochester, NY 14614
ATTN:	Drew Brantner
Phone:	(607) 280-2628
Project Name:	PH II INVESTIGATION
Project Number:	2230119
Report Date:	08/07/23

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2339895-01	WC-01-0.25-5 FT	SOIL	42 YORK STREET, ROCHESTER, N.Y.	07/11/23 13:15	07/12/23
L2339895-02	WC-02-0.75-2 FT	SOIL	42 YORK STREET, ROCHESTER, N.Y.	07/11/23 11:20	07/12/23
L2339895-03	WC-03-1-6 FT	SOIL	42 YORK STREET, ROCHESTER, N.Y.	07/12/23 12:50	07/12/23
L2339895-04	WC-04-3.5-6.5 FT	SOIL	42 YORK STREET, ROCHESTER, N.Y.	07/12/23 13:45	07/12/23
L2339895-05	WC-05-4-5 FT	SOIL	42 YORK STREET, ROCHESTER, N.Y.	07/11/23 12:00	07/12/23
L2339895-06	WC-06-0.5-2 FT	SOIL	42 YORK STREET, ROCHESTER, N.Y.	07/12/23 08:20	07/12/23
L2339895-07	WC-07-0.5-2.5 FT	SOIL	42 YORK STREET, ROCHESTER, N.Y.	07/12/23 09:40	07/12/23
L2339895-08	WC-08-0.4-3 FT	SOIL	42 YORK STREET, ROCHESTER, N.Y.	07/12/23 10:50	07/12/23

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative

Date: 08/07/23

ORGANICS

VOLATILES

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-01
 Client ID: WC-01-0.25-5 FT
 Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/11/23 13:15
 Date Received: 07/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 07/26/23 07:52
 Analyst: MCM
 Percent Solids: 80%
 TCLP/SPLP Ext. Date: 07/25/23 11:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	91		70-130
dibromofluoromethane	109		70-130

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-02
 Client ID: WC-02-0.75-2 FT
 Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/11/23 11:20
 Date Received: 07/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 07/26/23 08:14
 Analyst: MCM
 Percent Solids: 67%
 TCLP/SPLP Ext. Date: 07/25/23 11:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	91		70-130
dibromofluoromethane	111		70-130

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-03
 Client ID: WC-03-1-6 FT
 Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/12/23 12:50
 Date Received: 07/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 07/26/23 08:37
 Analyst: MCM
 Percent Solids: 86%
 TCLP/SPLP Ext. Date: 07/25/23 11:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	91		70-130
dibromofluoromethane	109		70-130

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-04
 Client ID: WC-04-3.5-6.5 FT
 Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/12/23 13:45
 Date Received: 07/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 07/26/23 09:00
 Analyst: MCM
 Percent Solids: 71%
 TCLP/SPLP Ext. Date: 07/25/23 11:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	89		70-130
dibromofluoromethane	109		70-130

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-05
 Client ID: WC-05-4-5 FT
 Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/11/23 12:00
 Date Received: 07/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 07/26/23 09:22
 Analyst: MCM
 Percent Solids: 73%
 TCLP/SPLP Ext. Date: 07/25/23 11:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	90		70-130
dibromofluoromethane	111		70-130

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-08
 Client ID: WC-08-0.4-3 FT
 Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/12/23 10:50
 Date Received: 07/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 07/26/23 09:45
 Analyst: MCM
 Percent Solids: 68%
 TCLP/SPLP Ext. Date: 07/25/23 11:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	91		70-130
dibromofluoromethane	110		70-130

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260D
Analytical Date: 07/26/23 05:12
Analyst: MCM
TCLP/SPLP Extraction Date: 07/25/23 11:11

Extraction Date: 07/25/23 11:11

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01-05,08 Batch: WG1807907-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PH II INVESTIGATION

Lab Number: L2339895

Project Number: 2230119

Report Date: 08/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01-05,08 Batch: WG1807907-3 WG1807907-4								
Chloroform	96		98		70-130	2		20
Carbon tetrachloride	100		100		63-132	0		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	100		100		75-130	0		25
1,2-Dichloroethane	93		94		70-130	1		20
Benzene	98		97		70-130	1		25
Vinyl chloride	77		79		55-140	3		20
1,1-Dichloroethene	84		86		61-145	2		25
Trichloroethene	100		100		70-130	0		25
1,4-Dichlorobenzene	99		99		70-130	0		20
2-Butanone	74		79		63-138	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		95		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	90		92		70-130
dibromofluoromethane	96		98		70-130

SEMIVOLATILES

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-01
 Client ID: WC-01-0.25-5 FT
 Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/11/23 13:15
 Date Received: 07/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 07/20/23 05:52
 Analyst: EK
 Percent Solids: 80%
 TCLP/SPLP Ext. Date: 07/14/23 04:56

Extraction Method: EPA 3510C
 Extraction Date: 07/18/23 16:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	63		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	71		10-120
4-Terphenyl-d14	71		33-120

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-02
 Client ID: WC-02-0.75-2 FT
 Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/11/23 11:20
 Date Received: 07/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 07/21/23 04:50
 Analyst: EK
 Percent Solids: 67%
 TCLP/SPLP Ext. Date: 07/14/23 04:56

Extraction Method: EPA 3510C
 Extraction Date: 07/18/23 16:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	70		33-120

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-03
 Client ID: WC-03-1-6 FT
 Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/12/23 12:50
 Date Received: 07/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 07/21/23 04:26
 Analyst: EK
 Percent Solids: 86%
 TCLP/SPLP Ext. Date: 07/14/23 04:56

Extraction Method: EPA 3510C
 Extraction Date: 07/18/23 16:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		21-120
Phenol-d6	69		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	99		10-120
4-Terphenyl-d14	77		33-120

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-04
 Client ID: WC-04-3.5-6.5 FT
 Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/12/23 13:45
 Date Received: 07/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 07/20/23 06:41
 Analyst: EK
 Percent Solids: 71%
 TCLP/SPLP Ext. Date: 07/14/23 04:56

Extraction Method: EPA 3510C
 Extraction Date: 07/18/23 16:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	63		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	76		33-120

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-05
 Client ID: WC-05-4-5 FT
 Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/11/23 12:00
 Date Received: 07/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 07/21/23 04:03
 Analyst: EK
 Percent Solids: 73%
 TCLP/SPLP Ext. Date: 07/14/23 04:56

Extraction Method: EPA 3510C
 Extraction Date: 07/18/23 16:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		21-120
Phenol-d6	71		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	102		10-120
4-Terphenyl-d14	82		33-120

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-08
 Client ID: WC-08-0.4-3 FT
 Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/12/23 10:50
 Date Received: 07/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 07/20/23 04:46
 Analyst: EK
 Percent Solids: 68%
 TCLP/SPLP Ext. Date: 07/14/23 04:56

Extraction Method: EPA 3510C
 Extraction Date: 07/18/23 16:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		21-120
Phenol-d6	77		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	85		10-120
4-Terphenyl-d14	81		33-120

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/19/23 09:48
Analyst: JG
TCLP/SPLP Extraction Date: 07/14/23 04:56

Extraction Method: EPA 3510C
Extraction Date: 07/18/23 16:33

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 01-05,08 Batch: WG1804731-1					
Hexachlorobenzene	ND		ug/l	10	3.4
2,4-Dinitrotoluene	ND		ug/l	25	1.9
Hexachlorobutadiene	ND		ug/l	10	3.0
Hexachloroethane	ND		ug/l	10	2.2
Nitrobenzene	ND		ug/l	10	3.3
2,4,6-Trichlorophenol	ND		ug/l	25	2.5
Pentachlorophenol	ND		ug/l	50	9.8
2-Methylphenol	ND		ug/l	25	5.5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8
2,4,5-Trichlorophenol	ND		ug/l	25	1.9
Pyridine	ND		ug/l	18	4.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		21-120
Phenol-d6	65		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	71		10-120
4-Terphenyl-d14	74		33-120

Lab Control Sample Analysis Batch Quality Control

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 01-05,08 Batch: WG1804731-2 WG1804731-3								
Hexachlorobenzene	66		65		40-140	2		30
2,4-Dinitrotoluene	81		81		40-132	0		30
Hexachlorobutadiene	53		56		28-111	6		30
Hexachloroethane	59		64		21-105	8		30
Nitrobenzene	70		77		40-140	10		30
2,4,6-Trichlorophenol	76		77		30-130	1		30
Pentachlorophenol	60		58		9-103	3		30
2-Methylphenol	67		74		30-130	10		30
3-Methylphenol/4-Methylphenol	72		77		30-130	7		30
2,4,5-Trichlorophenol	76		76		30-130	0		30
Pyridine	26		39		10-66	40	Q	30

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	71		81		21-120
Phenol-d6	66		73		10-120
Nitrobenzene-d5	70		79		23-120
2-Fluorobiphenyl	69		70		15-120
2,4,6-Tribromophenol	71		69		10-120
4-Terphenyl-d14	69		67		33-120

PCBS

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-01
 Client ID: WC-01-0.25-5 FT
 Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/11/23 13:15
 Date Received: 07/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 07/17/23 08:42
 Analyst: ENT
 Percent Solids: 80%

Extraction Method: EPA 3546
 Extraction Date: 07/16/23 09:27
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/16/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	58.1	5.16	1	A
Aroclor 1221	ND		ug/kg	58.1	5.82	1	A
Aroclor 1232	ND		ug/kg	58.1	12.3	1	A
Aroclor 1242	ND		ug/kg	58.1	7.83	1	A
Aroclor 1248	ND		ug/kg	58.1	8.71	1	A
Aroclor 1254	ND		ug/kg	58.1	6.35	1	A
Aroclor 1260	ND		ug/kg	58.1	10.7	1	A
Aroclor 1262	ND		ug/kg	58.1	7.38	1	A
Aroclor 1268	ND		ug/kg	58.1	6.02	1	A
PCBs, Total	ND		ug/kg	58.1	5.16	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-02
Client ID: WC-02-0.75-2 FT
Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/11/23 11:20
Date Received: 07/12/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/17/23 08:55
Analyst: ENT
Percent Solids: 67%

Extraction Method: EPA 3546
Extraction Date: 07/16/23 09:27
Cleanup Method: EPA 3665A
Cleanup Date: 07/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	72.9	6.47	1	A
Aroclor 1221	ND		ug/kg	72.9	7.30	1	A
Aroclor 1232	ND		ug/kg	72.9	15.4	1	A
Aroclor 1242	ND		ug/kg	72.9	9.82	1	A
Aroclor 1248	ND		ug/kg	72.9	10.9	1	A
Aroclor 1254	ND		ug/kg	72.9	7.97	1	A
Aroclor 1260	21.2	J	ug/kg	72.9	13.5	1	B
Aroclor 1262	ND		ug/kg	72.9	9.26	1	A
Aroclor 1268	ND		ug/kg	72.9	7.55	1	A
PCBs, Total	21.2	J	ug/kg	72.9	6.47	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-03
 Client ID: WC-03-1-6 FT
 Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/12/23 12:50
 Date Received: 07/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 07/17/23 09:08
 Analyst: ENT
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 07/16/23 09:27
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/16/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	53.4	4.74	1	A
Aroclor 1221	ND		ug/kg	53.4	5.35	1	A
Aroclor 1232	ND		ug/kg	53.4	11.3	1	A
Aroclor 1242	ND		ug/kg	53.4	7.19	1	A
Aroclor 1248	ND		ug/kg	53.4	8.00	1	A
Aroclor 1254	ND		ug/kg	53.4	5.84	1	A
Aroclor 1260	ND		ug/kg	53.4	9.86	1	A
Aroclor 1262	ND		ug/kg	53.4	6.78	1	A
Aroclor 1268	ND		ug/kg	53.4	5.53	1	A
PCBs, Total	ND		ug/kg	53.4	4.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-04
Client ID: WC-04-3.5-6.5 FT
Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/12/23 13:45
Date Received: 07/12/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/17/23 09:21
Analyst: ENT
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 07/16/23 09:27
Cleanup Method: EPA 3665A
Cleanup Date: 07/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	67.1	5.96	1	A
Aroclor 1221	ND		ug/kg	67.1	6.73	1	A
Aroclor 1232	ND		ug/kg	67.1	14.2	1	A
Aroclor 1242	ND		ug/kg	67.1	9.05	1	A
Aroclor 1248	ND		ug/kg	67.1	10.1	1	A
Aroclor 1254	ND		ug/kg	67.1	7.34	1	A
Aroclor 1260	ND		ug/kg	67.1	12.4	1	A
Aroclor 1262	ND		ug/kg	67.1	8.52	1	A
Aroclor 1268	ND		ug/kg	67.1	6.95	1	A
PCBs, Total	ND		ug/kg	67.1	5.96	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-05
 Client ID: WC-05-4-5 FT
 Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/11/23 12:00
 Date Received: 07/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 07/17/23 09:33
 Analyst: ENT
 Percent Solids: 73%

Extraction Method: EPA 3546
 Extraction Date: 07/16/23 09:27
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/16/23
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	66.9	5.94	1	A
Aroclor 1221	ND		ug/kg	66.9	6.71	1	A
Aroclor 1232	ND		ug/kg	66.9	14.2	1	A
Aroclor 1242	ND		ug/kg	66.9	9.02	1	A
Aroclor 1248	ND		ug/kg	66.9	10.0	1	A
Aroclor 1254	ND		ug/kg	66.9	7.32	1	A
Aroclor 1260	ND		ug/kg	66.9	12.4	1	A
Aroclor 1262	ND		ug/kg	66.9	8.50	1	A
Aroclor 1268	ND		ug/kg	66.9	6.93	1	A
PCBs, Total	ND		ug/kg	66.9	5.94	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-08
Client ID: WC-08-0.4-3 FT
Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/12/23 10:50
Date Received: 07/12/23
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/23 10:05
Analyst: MEO
Percent Solids: 68%

Extraction Method: EPA 3546
Extraction Date: 07/17/23 11:49
Cleanup Method: EPA 3665A
Cleanup Date: 07/17/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/18/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	72.1	6.40	1	A
Aroclor 1221	ND		ug/kg	72.1	7.22	1	A
Aroclor 1232	ND		ug/kg	72.1	15.3	1	A
Aroclor 1242	ND		ug/kg	72.1	9.72	1	A
Aroclor 1248	ND		ug/kg	72.1	10.8	1	A
Aroclor 1254	ND		ug/kg	72.1	7.89	1	A
Aroclor 1260	ND		ug/kg	72.1	13.3	1	A
Aroclor 1262	ND		ug/kg	72.1	9.16	1	A
Aroclor 1268	ND		ug/kg	72.1	7.47	1	A
PCBs, Total	ND		ug/kg	72.1	6.40	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 07/16/23 12:01
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 07/15/23 11:00
Cleanup Method: EPA 3665A
Cleanup Date: 07/15/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/16/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-05 Batch: WG1803666-1						
Aroclor 1016	ND		ug/kg	49.2	4.37	A
Aroclor 1221	ND		ug/kg	49.2	4.93	A
Aroclor 1232	ND		ug/kg	49.2	10.4	A
Aroclor 1242	ND		ug/kg	49.2	6.63	A
Aroclor 1248	ND		ug/kg	49.2	7.38	A
Aroclor 1254	ND		ug/kg	49.2	5.38	A
Aroclor 1260	ND		ug/kg	49.2	9.09	A
Aroclor 1262	ND		ug/kg	49.2	6.25	A
Aroclor 1268	ND		ug/kg	49.2	5.10	A
PCBs, Total	ND		ug/kg	49.2	4.37	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 07/18/23 07:57
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 07/17/23 11:49
Cleanup Method: EPA 3665A
Cleanup Date: 07/17/23
Cleanup Method: EPA 3660B
Cleanup Date: 07/18/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 08 Batch: WG1804115-1						
Aroclor 1016	ND		ug/kg	47.1	4.18	A
Aroclor 1221	ND		ug/kg	47.1	4.72	A
Aroclor 1232	ND		ug/kg	47.1	9.99	A
Aroclor 1242	ND		ug/kg	47.1	6.35	A
Aroclor 1248	ND		ug/kg	47.1	7.07	A
Aroclor 1254	ND		ug/kg	47.1	5.16	A
Aroclor 1260	ND		ug/kg	47.1	8.71	A
Aroclor 1262	ND		ug/kg	47.1	5.98	A
Aroclor 1268	ND		ug/kg	47.1	4.88	A
PCBs, Total	ND		ug/kg	47.1	4.18	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	70		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1803666-2 WG1803666-3									
Aroclor 1016	57		52		40-140	9		50	A
Aroclor 1260	56		50		40-140	11		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		56		30-150	A
Decachlorobiphenyl	60		54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		62		30-150	B
Decachlorobiphenyl	72		66		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PH II INVESTIGATION

Project Number: 2230119

Lab Number: L2339895

Report Date: 08/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 08 Batch: WG1804115-2 WG1804115-3									
Aroclor 1016	70		71		40-140	1		50	A
Aroclor 1260	69		70		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		72		30-150	A
Decachlorobiphenyl	69		70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		76		30-150	B
Decachlorobiphenyl	69		71		30-150	B

METALS

Project Name: PH II INVESTIGATION**Lab Number:** L2339895**Project Number:** 2230119**Report Date:** 08/07/23**SAMPLE RESULTS**

Lab ID: L2339895-01

Date Collected: 07/11/23 13:15

Client ID: WC-01-0.25-5 FT

Date Received: 07/12/23

Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 07/14/23 04:56

Matrix: Soil

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	07/17/23 20:01	08/05/23 12:17	EPA 3015	1,6010D	MRC
Barium, TCLP	0.458	J	mg/l	0.500	0.0210	1	07/17/23 20:01	08/05/23 12:17	EPA 3015	1,6010D	MRC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	07/17/23 20:01	08/05/23 12:17	EPA 3015	1,6010D	MRC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/17/23 20:01	08/05/23 12:17	EPA 3015	1,6010D	MRC
Lead, TCLP	0.323	J	mg/l	0.500	0.0270	1	07/17/23 20:01	08/05/23 12:17	EPA 3015	1,6010D	MRC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	07/17/23 18:00	08/07/23 12:58	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/17/23 20:01	08/05/23 12:17	EPA 3015	1,6010D	MRC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/17/23 20:01	08/05/23 12:17	EPA 3015	1,6010D	MRC



Project Name: PH II INVESTIGATION**Lab Number:** L2339895**Project Number:** 2230119**Report Date:** 08/07/23**SAMPLE RESULTS**

Lab ID: L2339895-02

Date Collected: 07/11/23 11:20

Client ID: WC-02-0.75-2 FT

Date Received: 07/12/23

Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 07/14/23 04:56

Matrix: Soil

Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.0223	J	mg/l	1.00	0.0190	1	07/17/23 20:01	08/05/23 12:22	EPA 3015	1,6010D	MRC
Barium, TCLP	0.147	J	mg/l	0.500	0.0210	1	07/17/23 20:01	08/05/23 12:22	EPA 3015	1,6010D	MRC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	07/17/23 20:01	08/05/23 12:22	EPA 3015	1,6010D	MRC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/17/23 20:01	08/05/23 12:22	EPA 3015	1,6010D	MRC
Lead, TCLP	0.344	J	mg/l	0.500	0.0270	1	07/17/23 20:01	08/05/23 12:22	EPA 3015	1,6010D	MRC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	07/17/23 18:00	08/07/23 13:01	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/17/23 20:01	08/05/23 12:22	EPA 3015	1,6010D	MRC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/17/23 20:01	08/05/23 12:22	EPA 3015	1,6010D	MRC



Project Name: PH II INVESTIGATION**Lab Number:** L2339895**Project Number:** 2230119**Report Date:** 08/07/23**SAMPLE RESULTS**

Lab ID: L2339895-03

Date Collected: 07/12/23 12:50

Client ID: WC-03-1-6 FT

Date Received: 07/12/23

Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 07/14/23 04:56

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	07/17/23 20:01	08/05/23 12:26	EPA 3015	1,6010D	MRC
Barium, TCLP	0.215	J	mg/l	0.500	0.0210	1	07/17/23 20:01	08/05/23 12:26	EPA 3015	1,6010D	MRC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	07/17/23 20:01	08/05/23 12:26	EPA 3015	1,6010D	MRC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/17/23 20:01	08/05/23 12:26	EPA 3015	1,6010D	MRC
Lead, TCLP	ND		mg/l	0.500	0.0270	1	07/17/23 20:01	08/05/23 12:26	EPA 3015	1,6010D	MRC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	07/17/23 18:00	08/07/23 13:04	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/17/23 20:01	08/05/23 12:26	EPA 3015	1,6010D	MRC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/17/23 20:01	08/05/23 12:26	EPA 3015	1,6010D	MRC

Project Name: PH II INVESTIGATION**Lab Number:** L2339895**Project Number:** 2230119**Report Date:** 08/07/23**SAMPLE RESULTS**

Lab ID: L2339895-04

Date Collected: 07/12/23 13:45

Client ID: WC-04-3.5-6.5 FT

Date Received: 07/12/23

Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 07/14/23 04:56

Matrix: Soil

Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	07/17/23 20:01	08/05/23 12:49	EPA 3015	1,6010D	MRC
Barium, TCLP	0.647		mg/l	0.500	0.0210	1	07/17/23 20:01	08/05/23 12:49	EPA 3015	1,6010D	MRC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	07/17/23 20:01	08/05/23 12:49	EPA 3015	1,6010D	MRC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/17/23 20:01	08/05/23 12:49	EPA 3015	1,6010D	MRC
Lead, TCLP	0.575		mg/l	0.500	0.0270	1	07/17/23 20:01	08/05/23 12:49	EPA 3015	1,6010D	MRC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	07/17/23 18:00	08/07/23 13:08	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/17/23 20:01	08/05/23 12:49	EPA 3015	1,6010D	MRC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/17/23 20:01	08/05/23 12:49	EPA 3015	1,6010D	MRC



Project Name: PH II INVESTIGATION**Lab Number:** L2339895**Project Number:** 2230119**Report Date:** 08/07/23**SAMPLE RESULTS**

Lab ID: L2339895-05

Date Collected: 07/11/23 12:00

Client ID: WC-05-4-5 FT

Date Received: 07/12/23

Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 07/14/23 04:56

Matrix: Soil

Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	07/17/23 20:01	08/05/23 12:59	EPA 3015	1,6010D	MRC
Barium, TCLP	0.388	J	mg/l	0.500	0.0210	1	07/17/23 20:01	08/05/23 12:59	EPA 3015	1,6010D	MRC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	07/17/23 20:01	08/05/23 12:59	EPA 3015	1,6010D	MRC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/17/23 20:01	08/05/23 12:59	EPA 3015	1,6010D	MRC
Lead, TCLP	ND		mg/l	0.500	0.0270	1	07/17/23 20:01	08/05/23 12:59	EPA 3015	1,6010D	MRC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	07/17/23 18:00	08/07/23 13:11	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/17/23 20:01	08/05/23 12:59	EPA 3015	1,6010D	MRC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/17/23 20:01	08/05/23 12:59	EPA 3015	1,6010D	MRC



Project Name: PH II INVESTIGATION**Lab Number:** L2339895**Project Number:** 2230119**Report Date:** 08/07/23**SAMPLE RESULTS**

Lab ID: L2339895-08

Date Collected: 07/12/23 10:50

Client ID: WC-08-0.4-3 FT

Date Received: 07/12/23

Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 07/14/23 04:56

Matrix: Soil

Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	07/17/23 20:01	08/05/23 13:04	EPA 3015	1,6010D	MRC
Barium, TCLP	0.219	J	mg/l	0.500	0.0210	1	07/17/23 20:01	08/05/23 13:04	EPA 3015	1,6010D	MRC
Cadmium, TCLP	0.0188	J	mg/l	0.100	0.0100	1	07/17/23 20:01	08/05/23 13:04	EPA 3015	1,6010D	MRC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/17/23 20:01	08/05/23 13:04	EPA 3015	1,6010D	MRC
Lead, TCLP	ND		mg/l	0.500	0.0270	1	07/17/23 20:01	08/05/23 13:04	EPA 3015	1,6010D	MRC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	07/17/23 18:00	08/07/23 13:21	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/17/23 20:01	08/05/23 13:04	EPA 3015	1,6010D	MRC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/17/23 20:01	08/05/23 13:04	EPA 3015	1,6010D	MRC



Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-05,08 Batch: WG1804074-1									
Arsenic, TCLP	ND	mg/l	1.00	0.0190	1	07/17/23 20:01	07/20/23 08:55	1,6010D	JMF
Barium, TCLP	ND	mg/l	0.500	0.0210	1	07/17/23 20:01	07/20/23 08:55	1,6010D	JMF
Cadmium, TCLP	ND	mg/l	0.100	0.0100	1	07/17/23 20:01	07/20/23 08:55	1,6010D	JMF
Chromium, TCLP	ND	mg/l	0.200	0.0210	1	07/17/23 20:01	07/20/23 08:55	1,6010D	JMF
Lead, TCLP	ND	mg/l	0.500	0.0270	1	07/17/23 20:01	07/20/23 08:55	1,6010D	JMF
Selenium, TCLP	ND	mg/l	0.500	0.0350	1	07/17/23 20:01	07/20/23 08:55	1,6010D	JMF
Silver, TCLP	ND	mg/l	0.100	0.0280	1	07/17/23 20:01	07/20/23 08:55	1,6010D	JMF

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 07/14/23 04:56

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-05,08 Batch: WG1804078-1									
Mercury, TCLP	ND	mg/l	0.0010	0.0005	1	07/17/23 18:00	07/20/23 19:42	1,7470A	GMG

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 07/14/23 04:56

Lab Control Sample Analysis

Batch Quality Control

Project Name: PH II INVESTIGATION

Project Number: 2230119

Lab Number: L2339895

Report Date: 08/07/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05,08 Batch: WG1804074-2								
Arsenic, TCLP	92		-		75-125	-		20
Barium, TCLP	80		-		75-125	-		20
Cadmium, TCLP	89		-		75-125	-		20
Chromium, TCLP	87		-		75-125	-		20
Lead, TCLP	88		-		75-125	-		20
Selenium, TCLP	96		-		75-125	-		20
Silver, TCLP	89		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05,08 Batch: WG1804078-2								
Mercury, TCLP	84		-		80-120	-		

Matrix Spike Analysis Batch Quality Control

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05,08 QC Batch ID: WG1804074-3 QC Sample: L2340055-03 Client ID: MS Sample												
Arsenic, TCLP	0.0253J	1.2	1.12	93	-	-	-	-	75-125	-	-	20
Barium, TCLP	0.640	20	16.9	81	-	-	-	-	75-125	-	-	20
Cadmium, TCLP	ND	0.53	0.468	88	-	-	-	-	75-125	-	-	20
Chromium, TCLP	ND	2	1.73	86	-	-	-	-	75-125	-	-	20
Lead, TCLP	ND	5.3	4.58	86	-	-	-	-	75-125	-	-	20
Selenium, TCLP	ND	1.2	1.14	95	-	-	-	-	75-125	-	-	20
Silver, TCLP	ND	0.5	0.441	88	-	-	-	-	75-125	-	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05,08 QC Batch ID: WG1804078-3 QC Sample: L2340055-03 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0193	77	-	-	-	-	75-125	-	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PH II INVESTIGATION

Project Number: 2230119

Lab Number: L2339895

Report Date: 08/07/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05,08 QC Batch ID: WG1804074-4 QC Sample: L2340055-03 Client ID: DUP Sample						
Arsenic, TCLP	0.0253J	0.0256J	mg/l	NC		20
Barium, TCLP	0.640	0.561	mg/l	13		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05,08 QC Batch ID: WG1804078-4 QC Sample: L2340055-03 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-01
Client ID: WC-01-0.25-5 FT
Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/11/23 13:15
Date Received: 07/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/22/23 14:50	1,1030	GEF



Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-02
Client ID: WC-02-0.75-2 FT
Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/11/23 11:20
Date Received: 07/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/22/23 14:50	1,1030	GEF



Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-03
Client ID: WC-03-1-6 FT
Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/12/23 12:50
Date Received: 07/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/22/23 14:50	1,1030	GEF



Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-04
Client ID: WC-04-3.5-6.5 FT
Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/12/23 13:45
Date Received: 07/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/22/23 14:50	1,1030	GEF



Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-05
Client ID: WC-05-4-5 FT
Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/11/23 12:00
Date Received: 07/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/22/23 14:50	1,1030	GEF



Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-08
Client ID: WC-08-0.4-3 FT
Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/12/23 10:50
Date Received: 07/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/22/23 14:50	1,1030	GEF



Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-01
Client ID: WC-01-0.25-5 FT
Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/11/23 13:15
Date Received: 07/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.0		%	0.100	NA	1	-	07/14/23 11:55	121,2540G	ROI
pH (H)	7.91		SU	-	NA	1	-	07/26/23 11:43	1,9045D	LOF
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/14/23 09:10	07/14/23 11:14	125,7.3	MMJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/14/23 09:10	07/14/23 10:48	125,7.3	MMJ



Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-02
Client ID: WC-02-0.75-2 FT
Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/11/23 11:20
Date Received: 07/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.2		%	0.100	NA	1	-	07/14/23 11:55	121,2540G	ROI
pH (H)	7.60		SU	-	NA	1	-	07/26/23 11:43	1,9045D	LOF
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/14/23 09:10	07/14/23 11:14	125,7.3	MMJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/14/23 09:10	07/14/23 10:48	125,7.3	MMJ



Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-03
Client ID: WC-03-1-6 FT
Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/12/23 12:50
Date Received: 07/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.8		%	0.100	NA	1	-	07/14/23 11:55	121,2540G	ROI
pH (H)	7.54		SU	-	NA	1	-	07/26/23 11:43	1,9045D	LOF
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/25/23 11:15	07/25/23 12:58	125,7.3	MMJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/25/23 11:15	07/25/23 12:30	125,7.3	MMJ



Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-04
Client ID: WC-04-3.5-6.5 FT
Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/12/23 13:45
Date Received: 07/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.0		%	0.100	NA	1	-	07/14/23 11:55	121,2540G	ROI
pH (H)	7.39		SU	-	NA	1	-	07/26/23 11:43	1,9045D	LOF
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/25/23 11:15	07/25/23 12:59	125,7.3	MMJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/25/23 11:15	07/25/23 12:30	125,7.3	MMJ



Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-05
Client ID: WC-05-4-5 FT
Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/11/23 12:00
Date Received: 07/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.1		%	0.100	NA	1	-	07/14/23 11:55	121,2540G	ROI
pH (H)	8.32		SU	-	NA	1	-	07/26/23 11:43	1,9045D	LOF
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/14/23 09:10	07/14/23 11:15	125,7.3	MMJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/14/23 09:10	07/14/23 10:49	125,7.3	MMJ



Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

SAMPLE RESULTS

Lab ID: L2339895-08
Client ID: WC-08-0.4-3 FT
Sample Location: 42 YORK STREET, ROCHESTER, N.Y.

Date Collected: 07/12/23 10:50
Date Received: 07/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.4		%	0.100	NA	1	-	07/14/23 11:55	121,2540G	ROI
pH (H)	7.07		SU	-	NA	1	-	07/26/23 11:43	1,9045D	LOF
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/25/23 11:15	07/25/23 12:59	125,7.3	MMJ
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/25/23 11:15	07/25/23 12:31	125,7.3	MMJ



Project Name: PH II INVESTIGATION

Lab Number: L2339895

Project Number: 2230119

Report Date: 08/07/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02,05 Batch: WG1803200-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/14/23 09:10	07/14/23 10:41	125,7.3	MMJ
General Chemistry - Westborough Lab for sample(s): 01-02,05 Batch: WG1803203-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/14/23 09:10	07/14/23 11:09	125,7.3	MMJ
General Chemistry - Westborough Lab for sample(s): 03-04,08 Batch: WG1807351-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/25/23 11:15	07/25/23 12:28	125,7.3	MMJ
General Chemistry - Westborough Lab for sample(s): 03-04,08 Batch: WG1807353-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/25/23 11:15	07/25/23 12:56	125,7.3	MMJ

Lab Control Sample Analysis

Batch Quality Control

Project Name: PH II INVESTIGATION

Project Number: 2230119

Lab Number: L2339895

Report Date: 08/07/23

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-02,05 Batch: WG1803200-2								
Sulfide, Reactive	76		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-02,05 Batch: WG1803203-2								
Cyanide, Reactive	94		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 03-04,08 Batch: WG1807351-2								
Sulfide, Reactive	78		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 03-04,08 Batch: WG1807353-2								
Cyanide, Reactive	74		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-05,08 Batch: WG1807910-1								
pH	100		-		99-101	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: PH II INVESTIGATION

Project Number: 2230119

Lab Number: L2339895

Report Date: 08/07/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-02,05	QC Batch ID: WG1803200-3	QC Sample: L2339998-01	Client ID: DUP Sample		
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab	Associated sample(s): 01-02,05	QC Batch ID: WG1803203-3	QC Sample: L2339998-01	Client ID: DUP Sample		
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab	Associated sample(s): 01-05,08	QC Batch ID: WG1803230-1	QC Sample: L2339829-01	Client ID: DUP Sample		
Solids, Total	99.5	99.5	%	0		20
General Chemistry - Westborough Lab	Associated sample(s): 03-04,08	QC Batch ID: WG1807351-3	QC Sample: L2339895-03	Client ID: WC-03-1-6 FT		
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab	Associated sample(s): 03-04,08	QC Batch ID: WG1807353-3	QC Sample: L2339895-03	Client ID: WC-03-1-6 FT		
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab	Associated sample(s): 01-05,08	QC Batch ID: WG1807910-2	QC Sample: L2341555-01	Client ID: DUP Sample		
pH	8.43	8.03	SU	5		5

Project Name: PH II INVESTIGATION
Project Number: 2230119

Serial_No:08072317:25
Lab Number: L2339895
Report Date: 08/07/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2339895-01A	Plastic 60ml unpreserved	A	NA		5.0	Y	Absent		TS(7)
L2339895-01B	Vial Large Septa unpreserved (4oz)	A	NA		5.0	Y	Absent		TCLP-EXT-ZHE(14)
L2339895-01C	Glass 500ml/16oz unpreserved	A	NA		5.0	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14),NYTCL-8082(365)
L2339895-01W	Amber 1000ml unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-8270(14)
L2339895-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		5.0	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2339895-01X9	Tumble Vessel	A	NA		5.0	Y	Absent		-
L2339895-01Y	Vial unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-VOA(14)
L2339895-01Z	Vial unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-VOA(14)
L2339895-02A	Plastic 60ml unpreserved	A	NA		5.0	Y	Absent		TS(7)
L2339895-02B	Vial Large Septa unpreserved (4oz)	A	NA		5.0	Y	Absent		TCLP-EXT-ZHE(14)
L2339895-02C	Glass 500ml/16oz unpreserved	A	NA		5.0	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),NYTCL-8082(365),REACTCN(14)
L2339895-02W	Amber 1000ml unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-8270(14)
L2339895-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		5.0	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2339895-02X9	Tumble Vessel	A	NA		5.0	Y	Absent		-
L2339895-02Y	Vial unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-VOA(14)
L2339895-02Z	Vial unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-VOA(14)
L2339895-03A	Plastic 60ml unpreserved	A	NA		5.0	Y	Absent		TS(7)
L2339895-03B	Vial Large Septa unpreserved (4oz)	A	NA		5.0	Y	Absent		TCLP-EXT-ZHE(14)
L2339895-03C	Glass 500ml/16oz unpreserved	A	NA		5.0	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),NYTCL-8082(365),REACTCN(14)
L2339895-03W	Amber 1000ml unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-8270(14)

*Values in parentheses indicate holding time in days



Project Name: PH II INVESTIGATION**Lab Number:** L2339895**Project Number:** 2230119**Report Date:** 08/07/23**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2339895-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		5.0	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2339895-03X9	Tumble Vessel	A	NA		5.0	Y	Absent		-
L2339895-03Y	Vial unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-VOA(14)
L2339895-03Z	Vial unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-VOA(14)
L2339895-04A	Plastic 60ml unpreserved	A	NA		5.0	Y	Absent		TS(7)
L2339895-04B	Vial Large Septa unpreserved (4oz)	A	NA		5.0	Y	Absent		TCLP-EXT-ZHE(14)
L2339895-04C	Glass 500ml/16oz unpreserved	A	NA		5.0	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),NYTCL-8082(365),REACTCN(14)
L2339895-04W	Amber 1000ml unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-8270(14)
L2339895-04X	Plastic 120ml HNO3 preserved Extracts	A	NA		5.0	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2339895-04X9	Tumble Vessel	A	NA		5.0	Y	Absent		-
L2339895-04Y	Vial unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-VOA(14)
L2339895-04Z	Vial unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-VOA(14)
L2339895-05A	Plastic 60ml unpreserved	A	NA		5.0	Y	Absent		TS(7)
L2339895-05B	Vial Large Septa unpreserved (4oz)	A	NA		5.0	Y	Absent		TCLP-EXT-ZHE(14)
L2339895-05C	Glass 500ml/16oz unpreserved	A	NA		5.0	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),NYTCL-8082(365),REACTCN(14)
L2339895-05W	Amber 1000ml unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-8270(14)
L2339895-05X	Plastic 120ml HNO3 preserved Extracts	A	NA		5.0	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2339895-05X9	Tumble Vessel	A	NA		5.0	Y	Absent		-
L2339895-05Y	Vial unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-VOA(14)
L2339895-05Z	Vial unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-VOA(14)
L2339895-06A	Vial Large Septa unpreserved (4oz)	A	NA		5.0	Y	Absent		HOLD-8260(14)
L2339895-06B	Glass 120ml/4oz unpreserved	A	NA		5.0	Y	Absent		HOLD-METAL(180)
L2339895-06C	Glass 120ml/4oz unpreserved	A	NA		5.0	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14),HOLD-8082(14)
L2339895-06D	Glass 120ml/4oz unpreserved	A	NA		5.0	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14),HOLD-8082(14)

Project Name: PH II INVESTIGATION
Project Number: 2230119

Serial_No:08072317:25
Lab Number: L2339895
Report Date: 08/07/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2339895-06E	Glass 120ml/4oz unpreserved	A	NA		5.0	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14),HOLD-8082(14)
L2339895-07A	Vial Large Septa unpreserved (4oz)	A	NA		5.0	Y	Absent		HOLD-8260(14)
L2339895-07B	Glass 120ml/4oz unpreserved	A	NA		5.0	Y	Absent		HOLD-METAL(180)
L2339895-07C	Glass 120ml/4oz unpreserved	A	NA		5.0	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14),HOLD-8082(14)
L2339895-07D	Glass 120ml/4oz unpreserved	A	NA		5.0	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14),HOLD-8082(14)
L2339895-07E	Glass 120ml/4oz unpreserved	A	NA		5.0	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14),HOLD-8082(14)
L2339895-08A	Vial Large Septa unpreserved (4oz)	A	NA		5.0	Y	Absent		TCLP-EXT-ZHE(14)
L2339895-08B	Glass 120ml/4oz unpreserved	A	NA		5.0	Y	Absent		IGNIT-1030(14),REACTS(14),TS(7),PH-9045(1),NYTCL-8082(365),REACTCN(14)
L2339895-08C	Glass 120ml/4oz unpreserved	A	NA		5.0	Y	Absent		IGNIT-1030(14),REACTS(14),TS(7),PH-9045(1),NYTCL-8082(365),REACTCN(14)
L2339895-08D	Glass 120ml/4oz unpreserved	A	NA		5.0	Y	Absent		IGNIT-1030(14),REACTS(14),TS(7),PH-9045(1),NYTCL-8082(365),REACTCN(14)
L2339895-08E	Glass 120ml/4oz unpreserved	A	NA		5.0	Y	Absent		IGNIT-1030(14),REACTS(14),TS(7),PH-9045(1),NYTCL-8082(365),REACTCN(14)
L2339895-08W	Amber 1000ml unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-8270(14)
L2339895-08X	Plastic 120ml HNO3 preserved Extracts	A	NA		5.0	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2339895-08X9	Tumble Vessel	A	NA		5.0	Y	Absent		-
L2339895-08Y	Vial unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-VOA(14)
L2339895-08Z	Vial unpreserved Extracts	A	NA		5.0	Y	Absent		TCLP-VOA(14)

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339895
Report Date: 08/07/23

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page	1	Date Rec'd in Lab 7/13/23	ALPHA Job # L2339895																																																																																																																																																		
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Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information Project Name: Ph II INVESTIGATION Project Location: 42 YORK STREET, NEW YORK ROCHESTER, N.Y.		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #																																																																																																																																																		
Client Information Client: LABELLA Address: 300 STATE STREET ROCHESTER, N.Y. Phone: 585-454-6110 Fax: Email: DBRANTNER@LABELLA-PC.COM		Project # 2230119 (Use Project name as Project #) <input type="checkbox"/>		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input checked="" type="checkbox"/> NY <input type="checkbox"/> Other.																																																																																																																																																		
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Table of Contents

New York ASP Category B Data Deliverable Package.....	1
Table of Contents	2
Sample ID Cross Reference	9
SDG Narrative	10
Data Qualifier Definitions	12
Instrument Information	15
Sample Log-in Sheet	18
Lims COC (LN01)	19
External Chain of Custody	20
Organics Analysis	21
GCMS 8260 Analysis	22
Volatiles QC Summary	23
Form 2 - Organics	24
Form 3 - Organics	25
Form 4 - Organics	31
Form 5 - Organics	32
Form 8 - Organics	34
MDL Study - Volatile Organics 8260	35
8260	35
8260HLW	37
Volatiles Sample Data	39
Form 1 - Organics	40
YS-MW-2023-01 072623 (L2343170-01) Analyzed: 08/04/23 12:40	55
MW-01 072623 (L2343170-02) Analyzed: 08/04/23 13:02	63
YS-MW-BD- 072623 (L2343170-03) Analyzed: 08/04/23 13:24	70
TRIP BLANK (L2343170-04) Analyzed: 08/04/23 13:46	78
Volatile Standards Data	83
Initial Calibration	84
Form 6 - Organics	85
ICAL for VOA130 on 07/14/23 ICAL20171	88
Initial Calibration Summary - Cal Date: 07/14/23 00:00	88
BFB TUNE Injected on: 07/13/23 17:40	92
STD0.19PPB Injected on: 07/13/23 18:46	93
STD0.5PPB Injected on: 07/13/23 19:31	96
STD2.0PPB Injected on: 07/13/23 20:15	103
STD10PPB Injected on: 07/13/23 20:59	108
STD30PPB Injected on: 07/13/23 21:21	114
STD80PPB Injected on: 07/13/23 21:44	120
STD120PPB Injected on: 07/13/23 22:06	126
STD200PPB Injected on: 07/13/23 22:28	133
ICV Summary Form Injected on: 07/14/23 00:18	140
ICV Quant Report Injected on: 07/14/23 00:18	143
Continuing Calibration	149
Form 7 - Organics	150
CC Summary - VOA130 Run: 08/04/23 06:51	153
CC Quant - WG1811888-2 VOA130 Run: 08/04/23 06:51	156
bfb tune - Inst. VOA130 08/04/23 06:38	162
Volatiles Raw QC Data	163
Laboratory Method BI (WG1811888-5) Analyzed: 08/04/23 08:18	164
Laboratory Control S (WG1811888-3) Analyzed: 08/04/23 06:51	172

Table of Contents

LCS Duplicate (WG1811888-4) Analyzed: 08/04/23 07:13	232
Matrix Spike (WG1811888-6) Analyzed: 08/04/23 16:20	293
Matrix Spike Duplica (WG1811888-7) Analyzed: 08/04/23 16:42	355
Volatiles Calculations	417
QC Batch WG1811888	418
ICAL Sequence for VOA130 on 14-JUL-2023 00:00 ICAL20171	419
Logbook	419
Instrument VOA130 Run Date 08/04/23 Run ID R1726089	420
Logbook	420
Semivolatiles Data - Method 8270	421
Semivolatiles QC Summary	422
Form 2 - Organics	423
Form 3 - Organics	424
Form 4 - Organics	429
Form 5 - Organics	430
Form 8 - Organics	436
MDL Study - ABN Extractables	440
Semivolatiles Sample Data	444
Form 1 - Organics	445
YS-MW-2023-01 072623 (L2343170-01) Analyzed: 08/02/23 08:40	457
YS-MW-BD- 072623 (L2343170-03) Analyzed: 08/02/23 09:27	462
MW-01 072623 (L2343170-02) Analyzed: 08/02/23 10:37	472
Semivolatiles Standards Data	477
Initial Calibration	478
Form 6 - Organics	479
ICAL for SV109 on 06/07/23 ICAL20078	487
Initial Calibration Summary - Cal Date: 06/07/23 00:00	487
Tune1 Injected on: 05/31/23 19:45	490
Deg1 Injected on: 05/31/23 19:45	491
Tailing Factor 1p Injected on: 05/31/23 19:45	492
Tailing Factor 1b Injected on: 05/31/23 19:45	493
ABNL10 Injected on: 05/31/23 20:09	494
ABNL9 Injected on: 05/31/23 20:32	500
ABNL8 Injected on: 05/31/23 20:55	505
ABNL7 Injected on: 05/31/23 21:19	510
ABNL6 Injected on: 05/31/23 21:42	515
ABNL5 Injected on: 05/31/23 22:05	520
ABNL4 Injected on: 05/31/23 22:28	525
ABNL3 Injected on: 05/31/23 22:52	532
ABNL2 Injected on: 05/31/23 23:15	537
ABNL1 Injected on: 05/31/23 23:38	542
AP9L10a Injected on: 06/01/23 07:10	548
AP9L9a Injected on: 06/01/23 07:34	551
AP9L8 Injected on: 06/01/23 08:31	554
AP9L7 Injected on: 06/01/23 08:55	557
AP9L6 Injected on: 06/01/23 09:19	560
AP9L5 Injected on: 06/01/23 09:43	563
AP9L4 Injected on: 06/01/23 10:07	566
AP9L3 Injected on: 06/01/23 10:32	569
AP9L2 Injected on: 06/01/23 10:56	572

Table of Contents

AP9L1 Injected on: 06/01/23 11:20	575
ABN ICV Summary Form Injected on: 06/01/23 11:45	578
ABN ICV Quant Report Injected on: 06/01/23 11:45	581
AP9 ICV Summary Form Injected on: 06/01/23 12:09	663
AP9 ICV Quant Report Injected on: 06/01/23 12:09	664
Tune2 Injected on: 06/06/23 13:37	681
Deg2 Injected on: 06/06/23 13:37	682
Tailing Factor 2p Injected on: 06/06/23 13:37	683
Tailing Factor 2b Injected on: 06/06/23 13:37	684
ADPL10a Injected on: 06/06/23 15:57	685
ADPL9a Injected on: 06/06/23 16:21	688
ADPL8a Injected on: 06/06/23 16:44	691
ADPL7a Injected on: 06/06/23 17:08	694
ADPL6a Injected on: 06/06/23 17:32	697
ADPL5a Injected on: 06/06/23 17:56	700
ADPL4a Injected on: 06/06/23 18:19	703
ADPL3a Injected on: 06/06/23 18:43	706
ADPL2a Injected on: 06/06/23 19:06	709
ADPL1a Injected on: 06/06/23 19:30	712
ADP ICV Summary Form Injected on: 06/06/23 19:53	715
ADP ICV Quant Report Injected on: 06/06/23 19:53	716
Relative Error Form	725
ICAL for JULIET on 07/21/23 ICAL20193	726
Initial Calibration Summary - Cal Date: 07/21/23 00:00	726
Tune1 Injected on: 07/20/23 22:57	729
Deg1 Injected on: 07/20/23 22:57	730
Tailing Factor 1p Injected on: 07/20/23 22:57	731
Tailing Factor 1b Injected on: 07/20/23 22:57	732
ABNL10 Injected on: 07/20/23 23:20	733
ABNL9 Injected on: 07/20/23 23:44	739
ABNL8 Injected on: 07/21/23 00:08	744
ABNL7 Injected on: 07/21/23 00:31	749
ABNL6 Injected on: 07/21/23 00:55	754
ABNL5 Injected on: 07/21/23 01:19	759
ABNL4 Injected on: 07/21/23 01:42	764
ABNL3 Injected on: 07/21/23 02:06	769
ABNL2 Injected on: 07/21/23 02:30	774
ABNL1 Injected on: 07/21/23 02:53	780
AP9L10 Injected on: 07/21/23 03:17	785
AP9L9 Injected on: 07/21/23 03:41	788
AP9L8 Injected on: 07/21/23 04:04	791
AP9L7 Injected on: 07/21/23 04:28	794
AP9L6 Injected on: 07/21/23 04:52	797
AP9L5 Injected on: 07/21/23 05:16	800
AP9L4 Injected on: 07/21/23 05:39	803
AP9L3 Injected on: 07/21/23 06:03	806
AP9L2 Injected on: 07/21/23 06:27	809
AP9L1 Injected on: 07/21/23 06:51	812
ABN ICV Summary Form Injected on: 07/21/23 07:14	815
ABN ICV Quant Report Injected on: 07/21/23 07:14	818

Table of Contents

AP9 ICV Summary Form Injected on: 07/21/23 07:38	900
AP9 ICV Quant Report Injected on: 07/21/23 07:38	901
Tune2 Injected on: 07/21/23 08:02	918
Deg2 Injected on: 07/21/23 08:02	919
Tailing Factor 2p Injected on: 07/21/23 08:02	920
Tailing Factor 2b Injected on: 07/21/23 08:02	921
ADPL10 Injected on: 07/21/23 08:26	922
ADPL9 Injected on: 07/21/23 08:50	925
ADPL8 Injected on: 07/21/23 09:13	928
ADPL7 Injected on: 07/21/23 09:37	931
ADPL6 Injected on: 07/21/23 10:01	934
ADPL5 Injected on: 07/21/23 10:25	937
ADPL4 Injected on: 07/21/23 10:49	940
ADPL3 Injected on: 07/21/23 11:13	943
ADPL2 Injected on: 07/21/23 11:37	946
ADPL1 Injected on: 07/21/23 12:01	949
ADP ICV Summary Form Injected on: 07/21/23 12:25	952
ADP ICV Quant Report Injected on: 07/21/23 12:25	953
Relative Error Page	962
Continuing Calibration	963
Form 7 - Organics	964
CC Summary - JULIET Run: 08/01/23 23:21	974
CC Quant - WG1810591-3 JULIET Run: 08/01/23 23:21	977
CC Summary - JULIET Run: 08/01/23 23:44	1061
CC Quant - WG1810591-4 JULIET Run: 08/01/23 23:44	1062
CC Summary - JULIET Run: 08/02/23 00:08	1079
CC Quant - WG1810591-5 JULIET Run: 08/02/23 00:08	1080
DEG Quant for JULIET injected on 08/01/23 22:57	1089
dftpp tune - Inst. JULIET 08/01/23 22:57	1090
Tailing factor report for JULIET injected on 08/01/23 22:57	1091
Form 7 - Organics	1093
CC Summary - SV109 Run: 08/01/23 23:57	1103
CC Quant - WG1810592-3 SV109 Run: 08/01/23 23:57	1106
CC Summary - SV109 Run: 08/02/23 00:20	1188
CC Quant - WG1810592-4 SV109 Run: 08/02/23 00:20	1189
CC Summary - SV109 Run: 08/02/23 00:43	1206
CC Quant - WG1810592-5 SV109 Run: 08/02/23 00:43	1207
DEG Quant for SV109 injected on 08/01/23 23:33	1216
dftpp tune - Inst. SV109 08/01/23 23:33	1217
Tailing factor report for SV109 injected on 08/01/23 23:33	1218
Semivolatiles Raw QC Summary	1220
Laboratory Method BI (WG1809554-1) Analyzed: 08/02/23 01:43	1221
Laboratory Control S (WG1809554-2) Analyzed: 08/02/23 02:06	1230
LCS Duplicate (WG1809554-3) Analyzed: 08/02/23 02:30	1280
Matrix Spike (WG1809554-6) Analyzed: 08/02/23 06:44	1330
Matrix Spike (WG1809554-4) Analyzed: 08/02/23 05:57	1380
Matrix Spike Duplica (WG1809554-7) Analyzed: 08/02/23 07:07	1443
Matrix Spike Duplica (WG1809554-5) Analyzed: 08/02/23 06:20	1493
Semivolatiles Calculations	1556
QC Batch WG1809554	1557

Table of Contents

ICAL Sequence for SV109 on 07-JUN-2023 00:00 ICAL20078	1558
ICAL Sequence for JULIET on 21-JUL-2023 00:00 ICAL20193	1559
Instrument JULIET Run Date 08/01/23 Run ID R1724876	1560
Instrument SV109 Run Date 08/01/23 Run ID R1724902	1561
Organic ELN-Workgroup:WG1809554	1562
Semivolatiles Data - Method 8270D-SIM	1564
Semivolatiles QC Summary	1565
Form 2 - Organics	1566
Form 3 - Organics	1567
Form 4 - Organics	1569
Form 5 - Organics	1570
Form 8 - Organics	1573
MDL Study - 8270 Low Level PAH	1577
Semivolatiles Sample Data	1579
Form 1 - Organics	1580
YS-MW-2023-01 072623 (L2343170-01) Analyzed: 08/01/23 12:58	1583
MW-01 072623 (L2343170-02) Analyzed: 08/01/23 13:48	1606
YS-MW-BD- 072623 (L2343170-03) Analyzed: 08/01/23 14:05	1613
Semivolatiles Standards Data	1623
Initial Calibration	1624
Form 6 - Organics	1625
ICAL for SV120 on 03/01/23 ICAL19770	1627
Initial Calibration Summary - Cal Date: 03/01/23 00:00	1627
Injected on: 02/22/23 10:31	1628
Degradation Injected on: 02/22/23 10:31	1629
Tailing Factor Injected on: 02/22/23 10:31	1630
IL10 Injected on: 02/22/23 11:10	1632
IL9 Injected on: 02/22/23 11:27	1636
IL8 Injected on: 02/22/23 11:43	1640
IL7 Injected on: 02/22/23 12:00	1644
IL6 Injected on: 02/22/23 12:16	1648
IL5 Injected on: 02/22/23 12:33	1652
IL4 Injected on: 02/22/23 12:50	1656
IL3 Injected on: 02/22/23 13:06	1660
IL2 Injected on: 02/22/23 13:23	1664
IL1 Injected on: 02/22/23 13:39	1669
ICV Summary Form Injected on: 02/22/23 13:56	1677
ICV Quant Report Injected on: 02/22/23 13:56	1679
Relative Error Summary	1710
Continuing Calibration	1711
Form 7 - Organics	1712
CC Summary - SV120 Run: 08/01/23 07:32	1714
CC Quant - WG1810218-3 SV120 Run: 08/01/23 07:32	1716
DEG Quant for SV120 injected on 08/01/23 07:12	1747
dftpp tune - Inst. SV120 08/01/23 07:12	1748
Tailing factor report for SV120 injected on 08/01/23 07:12	1749
Form 7 - Organics	1751
CC Summary - SV120 Run: 08/08/23 07:57	1753
CC Quant - WG1813153-3 SV120 Run: 08/08/23 07:57	1755
DEG Quant for SV120 injected on 08/08/23 07:32	1787

Table of Contents

dfpp tune - Inst. SV120 08/08/23 07:32	1788
Tailing factor report for SV120 injected on 08/08/23 07:32	1789
Semivolatiles Raw QC Summary	1791
Laboratory Method BI (WG1809555-1) Analyzed: 08/08/23 14:07	1792
Laboratory Control S (WG1809555-2) Analyzed: 08/08/23 14:23	1802
LCS Duplicate (WG1809555-3) Analyzed: 08/08/23 14:40	1832
Matrix Spike (WG1809555-4) Analyzed: 08/08/23 14:56	1861
Matrix Spike (WG1809555-6) Analyzed: 08/08/23 15:29	1893
Matrix Spike Duplica (WG1809555-5) Analyzed: 08/08/23 15:13	1924
Matrix Spike Duplica (WG1809555-7) Analyzed: 08/08/23 15:46	1958
Semivolatiles Calculations	1987
QC Batch WG1809555	1988
ICAL Sequence for SV120 on 01-MAR-2023 00:00 ICAL19770	1989
Instrument SV120 Run Date 08/01/23 Run ID R1724531	1990
Instrument SV120 Run Date 08/08/23 Run ID R1727267	1991
Organic ELN-Workgroup:WG1809555	1992
Metals Analysis	1994
Inorganic Data (ICPMS Analysis)	1995
Form 1 - Inorganics	1996
Form 2A - Inorganics	2002
Form 3 - Inorganics	2007
Form 4A - Inorganics	2012
Form 5A - Inorganics	2015
Form 7 - Inorganics	2017
Form 8 - Inorganics	2018
Form 12 - Inorganics	2020
Form 13 - Inorganics	2023
Form 14 - Inorganics	2026
Form 15 - Inorganics	2029
MDL Study - Metals by ICPMS	2032
Tune Report Run Date 08/01/23 Run ID R1724650	2034
Tune Report Run Date 08/09/23 Run ID R1727793	2037
Tune Report Run Date 08/13/23 Run ID R1729336	2040
Run Date 08/01/23 Run ID R1724650	2043
Run Date 08/09/23 Run ID R1727793	2234
Run Date 08/13/23 Run ID R1729336	2483
ICPMS True Value Summary Form	2661
ICPMS Calculations	2675
Instrument ICPMSQ2 Run Date 08/01/23 Run ID R1724650	2676
Instrument ICPMSQ2 Run Date 08/09/23 Run ID R1727793	2680
Instrument ICPMSQ2 Run Date 08/13/23 Run ID R1729336	2685
Metals ELN-Workgroup:WG1809786	2689
Inorganic Data (Mercury Analysis)	2692
Form 1 - Inorganics	2693
Form 2A - Inorganics	2697
Form 3 - Inorganics	2701
Form 5A - Inorganics	2705
Form 7 - Inorganics	2707
Form 12 - Inorganics	2708
Form 13 - Inorganics	2710

Table of Contents

MDL Study - Mercury by 245.1	2712
MDL Study - Mercury by 7470A	2713
MDL Study - Mercury by 7471B	2714
Run Date 08/02/23 Run ID R1725209	2715
Run Date 08/13/23 Run ID R1729427	2720
Hg True Value Summary Form	2725
HG Calculations	2739
Instrument NIC3 Run Date 08/02/23 Run ID R1725209	2741
Instrument NIC1 Run Date 08/13/23 Run ID R1729427	2744
Metals ELN-Workgroup:WG1809790	2747

Project Name: 42 YORK STREET
Project Number: 2230119

Lab Number: L2343170
Report Date: 08/14/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2343170-01	YS-MW-2023-01 072623	WATER	ROCHESTER, NY	07/26/23 10:45	07/26/23
L2343170-02	MW-01 072623	WATER	ROCHESTER, NY	07/26/23 13:10	07/26/23
L2343170-03	YS-MW-BD- 072623	WATER	ROCHESTER, NY	07/26/23 00:00	07/26/23
L2343170-04	TRIP BLANK	WATER	ROCHESTER, NY	07/26/23 00:00	07/26/23

Project Name: 42 YORK STREET
Project Number: 2230119

Lab Number: L2343170
Report Date: 08/14/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 42 YORK STREET
Project Number: 2230119

Lab Number: L2343170
Report Date: 08/14/23

Case Narrative (continued)


Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

The WG1809786-3/-4 MS/MSD recoveries for calcium (10%/0%), performed on L2343170-01, do not apply because the sample concentration is greater than four times the spike amount added.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Report Date: 08/14/23

Title: Technical Director/Representative

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: 42 YORK STREET
Project Number: 2230119

Lab Number: L2343170
Report Date: 08/14/23

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report with 'J' Qualifiers



Project Name: 42 YORK STREET
Project Number: 2230119

Lab Number: L2343170
Report Date: 08/14/23

Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers





Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: EST Encon (or equivalent)
Autosampler: EST Centurion (or equivalent)
Purge time: 11 min

Columns (length x ID x df):
RTX-VMS 20m x 0.18mm x 1um
RTX-VMS 30m x 0.25mm x 1.4um
RTX-502.2 40m x 0.18mm x 1um

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: EST Encon (or equivalent)
Autosampler: EST Centurion (or equivalent)

Column Type: Restek RTX 502.2
Column Length: 105 Meters
df: 3.00 um
ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Tekmar Velocity / EST Encon
Autosampler: Varian Archon / EST Centurion
Purge time: 11 min

Column Type: DB-VRX
Column Length: 60 Meters
df: 1.40 um
ID: 0.25 mm
Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD

Column Type: Haysep S Column
Column Length: 2 Meters packed
(100/200 mesh)

Autosampler: LEAP Headspace

Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200
Autosampler: Entech 7016CA or 7016D

Column Type: Restek RTX-1
Column Length: 60 Meters
df: 1.00 um
ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material

Trap 2: Tenax: manufacturer-Entech: 20 cm packing material



Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.32 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	



Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm



Sample Delivery Group Summary

Alpha Job Number : L2343170

Received : 26-JUL-2023

Reviewer : Kevin Law

Account Name : LaBella Associates, P.C.

Project Number : 2230119

Project Name : 42 YORK STREET

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	2.3	

Condition Information

- 1) All samples on COC received? **YES**
- 2) Extra samples received? **NO**
- 3) Are there any sample container discrepancies? **NO**
- 4) Are there any discrepancies between COC & sample labels? **NO**
- 5) Are samples in appropriate containers for requested analysis? **YES**
- 6) Are samples properly preserved for requested analysis? **YES**
- 7) Are samples within holding time for requested analysis? **YES**
- 8) All sampling equipment returned? **NA**

Volatile Organics/VPH

- 1) Reagent Water Vials Frozen by Client? **NO**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Aug 14 2023, 04:40 pm

Login Number: L2343170

Account: LABELLA-ROC LaBella Associates, P.C. Project: 2230119

Received: 26JUL23 Due Date: 09AUG23

Sample #	Client ID	Mat PR	Collected
L2343170-01	YS-MW-2023-01 072623	1	S0 26JUL23 10:45
L2343170-01	MS L2343170-01 MSD 8260/8270 - TCL + CP51 list built		ASP-B Package Due Date: 08/09/23
	ASP-B, E&I-FEE, MS/MSD, NYTCL-8260-R2, NYTCL-8270/8270SIM, NYTCL-8270, NYTCL-8270-SIM, TAL-6020T, AG-6020T, AL-6020T, AS-6020T, BA-6020T, BE-6020T, CA-6020T, CD-6020T, CO-6020T, CR-6020T, CU-6020T, FE-6020T, HG-T, K-6020T, MG-6020T, MN-6020T, NA-6020T, NI-6020T, PB-6020T, PREPT, SB-6020T, SE-6020T, TL-6020T, V-6020T, ZN-6020T		
L2343170-02	MW-01 072623	1	S0 26JUL23 13:10
	8260/8270 - TCL + CP51 list built Package Due Date: 08/09/23		
	NYTCL-8260-R2, NYTCL-8270/8270SIM, NYTCL-8270, NYTCL-8270-SIM, TAL-6020T, AG-6020T, AL-6020T, AS-6020T, BA-6020T, BE-6020T, CA-6020T, CD-6020T, CO-6020T, CR-6020T, CU-6020T, FE-6020T, HG-T, K-6020T, MG-6020T, MN-6020T, NA-6020T, NI-6020T, PB-6020T, PREPT, SB-6020T, SE-6020T, TL-6020T, V-6020T, ZN-6020T		
L2343170-03	YS-MW-BD- 072623	1	S0 26JUL23 00:00
	8260/8270 - TCL + CP51 list built Package Due Date: 08/09/23		
	NYTCL-8260-R2, NYTCL-8270/8270SIM, NYTCL-8270, NYTCL-8270-SIM, TAL-6020T, AG-6020T, AL-6020T, AS-6020T, BA-6020T, BE-6020T, CA-6020T, CD-6020T, CO-6020T, CR-6020T, CU-6020T, FE-6020T, HG-T, K-6020T, MG-6020T, MN-6020T, NA-6020T, NI-6020T, PB-6020T, PREPT, SB-6020T, SE-6020T, TL-6020T, V-6020T, ZN-6020T		
L2343170-04	TRIP BLANK	1	S0 26JUL23 00:00
	8260 - TCL + CP51 list built Package Due Date: 08/09/23		
	NYTCL-8260-R2		



**NEW YORK
CHAIN OF
CUSTODY**

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page

1 of 1

Date Rec'd
in Lab

7/27/23

ALPHA Job #

123413170

Project Information

Project Name: 42 York Street

Project Location: Rochester NY

Project # 2230119

(Use Project name as Project #)

Project Manager:

ALPHAQuote #:

Turn-Around Time

Standard

Due Date:

Rush (only if pre approved)

of Days:

Deliverables

ASP-A

ASP-B

EQUIS (1 File)

EQUIS (4 File)

Other

Billing Information

Same as Client Info

PO #

Client Information

Client: Labella Associates

Address: 300 State Street

Suite 201, Rochester, NY 14614

Phone: 585-454-6110

Fax:

Email: ABarber@labellapc.com

Regulatory Requirement

NY TOGS

NY Part 375

AWQ Standards

NY CP-51

NY Restricted Use

Other

NY Unrestricted Use

NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:

NJ

NY

Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Cc: KTruong@labellapc.com

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL/CP-SIVOCs 800	TCL/CP-SIVOCs 870	TAL Metals	Sample Filtration	Preservation	Sample Specific Comments	Total Bottles
43170-01	YS-MW-2023-01 072623	7/26/23	10:45	GW	KM	✓	✓	✓	<input type="checkbox"/> Done	<input checked="" type="checkbox"/> Lab to do	MS/MSD	6
-02	MW-01 072623	7/26/23	13:10	GW	KM	✓	✓	✓	<input checked="" type="checkbox"/> Lab to do			6
-03	YS-MW-BD-072623	7/26/23	~	GW	KM	✓	✓	✓	<input type="checkbox"/> Lab to do			6
-04	Trip Blank	7/26/23		Water		✓						2

Preservative Code:

A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Code

P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935

Mansfield: Certification No: MA015

Container Type

V A P

Preservative

B A C

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:

Klajdi Macolli

Date/Time

7/26/23 16:00

Received By:

SECURE STORAGE AAL

Date/Time

7/26/23 16:00

SECURE STORAGE AAL 7/26/23 17:10

J-H Napoh AAL 7/26/23 17:10

Wendy Manning 8/1/23 06:10

J-H Napoh AAL 7/26/23 17:10

Wendy Manning 8/1/23 06:10

Organics

GC/MS 8260

Analysis

Volatiles QC Summary

Surrogate Recovery Summary

Form 2

Volatiles

Client: LaBella Associates, P.C.
 Project Name: 42 YORK STREET

Lab Number: L2343170
 Project Number: 2230119
 Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
YS-MW-2023-01 072623 (L2343170-01)	112	95	92	123	0
MW-01 072623 (L2343170-02)	108	96	92	124	0
YS-MW-BD- 072623 (L2343170-03)	112	96	94	125	0
TRIP BLANK (L2343170-04)	113	95	94	125	0
WG1811888-3LCS	99	98	88	109	0
WG1811888-4LCSD	107	97	88	114	0
WG1811888-5BLANK	105	96	92	123	0
YS-MW-2023-01 072623MS	110	96	86	116	0
YS-MW-2023-01 072623MSD	106	95	87	115	0

QC LIMITS

- (70-130) DCA = 1,2-DICHLOROETHANE-D4
- (70-130) TOL = TOLUENE-D8
- (70-130) BFB = 4-BROMOFLUOROBENZENE
- (70-130) DBFM = DIBROMOFLUOROMETHANE

* Values outside of QC limits

FORM II NYTCL-8260-R2



Laboratory Control Sample Summary

Form 3

Volatiles

Client : LaBella Associates, P.C. **Lab Number** : L2343170
Project Name : 42 YORK STREET **Project Number** : 2230119
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1811888-3 **Analysis Date** : 08/04/23 06:51 **File ID** : V30230804A01
LCSD Sample ID : WG1811888-4 **Analysis Date** : 08/04/23 07:13 **File ID** : V30230804A02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Methylene chloride	10	10	100	10	11	110	10	70-130	20
1,1-Dichloroethane	10	11	110	10	11	110	0	70-130	20
Chloroform	10	11	110	10	11	110	0	70-130	20
Carbon tetrachloride	10	11	110	10	11	110	0	63-132	20
1,2-Dichloropropane	10	11	110	10	11	110	0	70-130	20
Dibromochloromethane	10	9.3	93	10	9.2	92	1	63-130	20
1,1,2-Trichloroethane	10	8.7	87	10	9.0	90	3	70-130	20
Tetrachloroethene	10	11	110	10	10	100	10	70-130	20
Chlorobenzene	10	9.9	99	10	9.7	97	2	75-130	20
Trichlorofluoromethane	10	10	100	10	10	100	0	62-150	20
1,2-Dichloroethane	10	9.7	97	10	10	100	3	70-130	20
1,1,1-Trichloroethane	10	11	110	10	11	110	0	67-130	20
Bromodichloromethane	10	11	110	10	11	110	0	67-130	20
trans-1,3-Dichloropropene	10	8.8	88	10	8.7	87	1	70-130	20
cis-1,3-Dichloropropene	10	10	100	10	10	100	0	70-130	20
Bromoform	10	8.6	86	10	8.8	88	2	54-136	20
1,1,2,2-Tetrachloroethane	10	8.7	87	10	9.4	94	8	67-130	20
Benzene	10	11	110	10	11	110	0	70-130	20
Toluene	10	9.6	96	10	9.6	96	0	70-130	20
Ethylbenzene	10	9.3	93	10	9.4	94	1	70-130	20
Chloromethane	10	11	110	10	11	110	0	64-130	20
Bromomethane	10	10	100	10	11	110	10	39-139	20
Vinyl chloride	10	10	100	10	10	100	0	55-140	20
Chloroethane	10	11	110	10	11	110	0	55-138	20
1,1-Dichloroethene	10	11	110	10	11	110	0	61-145	20
trans-1,2-Dichloroethene	10	11	110	10	11	110	0	70-130	20



Laboratory Control Sample Summary

Form 3

Volatiles

Client : LaBella Associates, P.C. **Lab Number** : L2343170
Project Name : 42 YORK STREET **Project Number** : 2230119
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1811888-3 **Analysis Date** : 08/04/23 06:51 **File ID** : V30230804A01
LCSD Sample ID : WG1811888-4 **Analysis Date** : 08/04/23 07:13 **File ID** : V30230804A02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Trichloroethene	10	10	100	10	10	100	0	70-130	20
1,2-Dichlorobenzene	10	9.4	94	10	9.2	92	2	70-130	20
1,3-Dichlorobenzene	10	9.6	96	10	9.4	94	2	70-130	20
1,4-Dichlorobenzene	10	9.7	97	10	9.4	94	3	70-130	20
Methyl tert butyl ether	10	9.0	90	10	9.6	96	6	63-130	20
p/m-Xylene	20	19	95	20	19	95	0	70-130	20
o-Xylene	20	19	95	20	19	95	0	70-130	20
cis-1,2-Dichloroethene	10	11	110	10	11	110	0	70-130	20
Styrene	20	19	95	20	19	95	0	70-130	20
Dichlorodifluoromethane	10	8.9	89	10	9.4	94	5	36-147	20
Acetone	10	9.2	92	10	9.8	98	6	58-148	20
Carbon disulfide	10	11	110	10	11	110	0	51-130	20
2-Butanone	10	8.7	87	10	9.3	93	7	63-138	20
4-Methyl-2-pentanone	10	7.1	71	10	7.7	77	8	59-130	20
2-Hexanone	10	6.2	62	10	7.2	72	15	57-130	20
1,2-Dibromoethane	10	8.9	89	10	9.1	91	2	70-130	20
n-Butylbenzene	10	9.2	92	10	8.8	88	4	53-136	20
sec-Butylbenzene	10	9.0	90	10	8.8	88	2	70-130	20
tert-Butylbenzene	10	9.0	90	10	8.8	88	2	70-130	20
1,2-Dibromo-3-chloropropane	10	7.3	73	10	8.6	86	16	41-144	20
Isopropylbenzene	10	8.9	89	10	8.7	87	2	70-130	20
p-Isopropyltoluene	10	9.0	90	10	8.8	88	2	70-130	20
Naphthalene	10	7.7	77	10	8.2	82	6	70-130	20
n-Propylbenzene	10	8.9	89	10	8.7	87	2	69-130	20
1,2,4-Trichlorobenzene	10	9.8	98	10	9.8	98	0	70-130	20
1,3,5-Trimethylbenzene	10	9.0	90	10	8.9	89	1	64-130	20



Laboratory Control Sample Summary

Form 3

Volatiles

Client : LaBella Associates, P.C. **Lab Number** : L2343170
Project Name : 42 YORK STREET **Project Number** : 2230119
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1811888-3 **Analysis Date** : 08/04/23 06:51 **File ID** : V30230804A01
LCSD Sample ID : WG1811888-4 **Analysis Date** : 08/04/23 07:13 **File ID** : V30230804A02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
1,2,4-Trimethylbenzene	10	9.1	91	10	8.8	88	3	70-130	20
Methyl Acetate	10	9.5	95	10	11	110	15	70-130	20
Cyclohexane	10	10	100	10	11	110	10	70-130	20
Freon-113	10	11	110	10	12	120	9	70-130	20
Methyl cyclohexane	10	10	100	10	11	110	10	70-130	20



Matrix Spike Sample Summary

Form 3

Volatiles

Client : LaBella Associates, P.C.	Lab Number : L2343170
Project Name : 42 YORK STREET	Project Number : 2230119
Client Sample ID : YS-MW-2023-01 072623	Matrix (Level) : WATER (LOW)
Lab Sample ID : L2343170-01	Analysis Date : 08/04/23 12:40
Matrix Spike : WG1811888-6	MS Analysis Date : 08/04/23 16:20
Matrix Spike Dup : WG1811888-7	MSD Analysis Date : 08/04/23 16:42

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Methylene chloride	ND	10	11	110	10	12	120	9	70-130	20
1,1-Dichloroethane	ND	10	12	120	10	13	130	8	70-130	20
Chloroform	ND	10	12	120	10	14	140 Q	15	70-130	20
Carbon tetrachloride	ND	10	13	130	10	14	140 Q	7	63-132	20
1,2-Dichloropropane	ND	10	11	110	10	12	120	9	70-130	20
Dibromochloromethane	ND	10	9.2	92	10	10	100	8	63-130	20
1,1,2-Trichloroethane	ND	10	9.2	92	10	9.8	98	6	70-130	20
Tetrachloroethene	ND	10	10	100	10	12	120	18	70-130	20
Chlorobenzene	ND	10	9.6	96	10	11	110	14	75-130	20
Trichlorofluoromethane	ND	10	12	120	10	14	140	15	62-150	20
1,2-Dichloroethane	ND	10	11	110	10	12	120	9	70-130	20
1,1,1-Trichloroethane	ND	10	12	120	10	14	140 Q	15	67-130	20
Bromodichloromethane	ND	10	11	110	10	12	120	9	67-130	20
trans-1,3-Dichloropropene	ND	10	8.5	85	10	9.2	92	8	70-130	20
cis-1,3-Dichloropropene	ND	10	9.8	98	10	11	110	12	70-130	20
Bromoform	ND	10	8.7	87	10	9.4	94	8	54-136	20
1,1,2,2-Tetrachloroethane	ND	10	9.6	96	10	10	100	4	67-130	20
Benzene	ND	10	11	110	10	13	130	17	70-130	20
Toluene	ND	10	9.7	97	10	11	110	13	70-130	20
Ethylbenzene	ND	10	9.3	93	10	10	100	7	70-130	20
Chloromethane	ND	10	12	120	10	13	130	8	64-130	20
Bromomethane	ND	10	9.4	94	10	12	120	24 Q	39-139	20



Matrix Spike Sample Summary

Form 3

Volatiles

Client : LaBella Associates, P.C.	Lab Number : L2343170
Project Name : 42 YORK STREET	Project Number : 2230119
Client Sample ID : YS-MW-2023-01 072623	Matrix (Level) : WATER (LOW)
Lab Sample ID : L2343170-01	Analysis Date : 08/04/23 12:40
Matrix Spike : WG1811888-6	MS Analysis Date : 08/04/23 16:20
Matrix Spike Dup : WG1811888-7	MSD Analysis Date : 08/04/23 16:42

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Vinyl chloride	ND	10	14	140	10	14	140	0	55-140	20
Chloroethane	ND	10	13	130	10	14	140 Q	7	55-138	20
1,1-Dichloroethene	ND	10	12	120	10	13	130	8	61-145	20
trans-1,2-Dichloroethene	ND	10	11	110	10	13	130	17	70-130	20
Trichloroethene	2.9	10	13	101	10	15	121	14	70-130	20
1,2-Dichlorobenzene	ND	10	9.1	91	10	10	100	9	70-130	20
1,3-Dichlorobenzene	ND	10	9.1	91	10	10	100	9	70-130	20
1,4-Dichlorobenzene	ND	10	9.2	92	10	10	100	8	70-130	20
Methyl tert butyl ether	ND	10	9.7	97	10	10	100	3	63-130	20
p/m-Xylene	ND	20	19	95	20	22	110	15	70-130	20
o-Xylene	ND	20	19	95	20	21	105	10	70-130	20
cis-1,2-Dichloroethene	ND	10	12	120	10	13	130	8	70-130	20
Styrene	ND	20	19	95	20	21	105	10	70-130	20
Dichlorodifluoromethane	ND	10	9.9	99	10	11	110	11	36-147	20
Acetone	ND	10	12	120	10	12	120	0	58-148	20
Carbon disulfide	ND	10	12	120	10	13	130	8	51-130	20
2-Butanone	ND	10	10	100	10	10	100	0	63-138	20
4-Methyl-2-pentanone	ND	10	8.0	80	10	8.1	81	1	59-130	20
2-Hexanone	ND	10	7.3	73	10	7.6	76	4	57-130	20
1,2-Dibromoethane	ND	10	9.3	93	10	9.6	96	3	70-130	20
n-Butylbenzene	ND	10	8.6	86	10	9.8	98	13	53-136	20
sec-Butylbenzene	ND	10	8.6	86	10	9.9	99	14	70-130	20



Matrix Spike Sample Summary

Form 3

Volatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Client Sample ID : YS-MW-2023-01 072623
Lab Sample ID : L2343170-01
Matrix Spike : WG1811888-6
Matrix Spike Dup : WG1811888-7

Lab Number : L2343170
Project Number : 2230119
Matrix (Level) : WATER (LOW)
Analysis Date : 08/04/23 12:40
MS Analysis Date : 08/04/23 16:20
MSD Analysis Date : 08/04/23 16:42

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
tert-Butylbenzene	ND	10	8.6	86	10	9.9	99	14	70-130	20
1,2-Dibromo-3-chloropropane	ND	10	8.9	89	10	9.1	91	2	41-144	20
Isopropylbenzene	ND	10	8.4	84	10	9.8	98	15	70-130	20
p-Isopropyltoluene	ND	10	8.5	85	10	9.8	98	14	70-130	20
Naphthalene	ND	10	8.3	83	10	8.9	89	7	70-130	20
n-Propylbenzene	ND	10	8.6	86	10	9.8	98	13	69-130	20
1,2,4-Trichlorobenzene	ND	10	9.5	95	10	10	100	5	70-130	20
1,3,5-Trimethylbenzene	ND	10	8.8	88	10	9.9	99	12	64-130	20
1,2,4-Trimethylbenzene	ND	10	8.5	85	10	9.7	97	13	70-130	20
Methyl Acetate	ND	10	11	110	10	11	110	0	70-130	20
Cyclohexane	ND	10	11	110	10	13	130	17	70-130	20
Freon-113	ND	10	12	120	10	14	140 Q	15	70-130	20
Methyl cyclohexane	ND	10	10	100	10	12	120	18	70-130	20



Method Blank Summary Form 4 Volatiles

Client : LaBella Associates, P.C. Project Name : 42 YORK STREET Lab Sample ID : WG1811888-5 Instrument ID : VOA130 Matrix : WATER	Lab Number : L2343170 Project Number : 2230119 Lab File ID : V30230804A05 Analysis Date : 08/04/23 08:18
--	---

Client Sample No.	Lab Sample ID	Analysis Date
WG1811888-3LCS	WG1811888-3	08/04/23 06:51
WG1811888-4LCSD	WG1811888-4	08/04/23 07:13
YS-MW-2023-01 072623	L2343170-01	08/04/23 12:40
MW-01 072623	L2343170-02	08/04/23 13:02
YS-MW-BD- 072623	L2343170-03	08/04/23 13:24
TRIP BLANK	L2343170-04	08/04/23 13:46
YS-MW-2023-01 072623MS	WG1811888-6	08/04/23 16:20
YS-MW-2023-01 072623MSD	WG1811888-7	08/04/23 16:42



Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: LaBella Associates, P.C.	Lab Number	: L2343170
Project Name	: 42 YORK STREET	Project Number	: 2230119
Instrument ID	: VOA130	Analysis Date	: 07/13/23 17:40
Tune Standard	: WG1803303-1	Tune File ID	: V30230713NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	19.8
75	30.0 - 80.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.9 (1)1
174	Greater than 50.0% of mass 95	90.2
175	5.0 - 9.0% of mass 174	6.7 (7.4)1
176	Greater than 95.0% but less than 101% of mass	87.3 (96.8)1
177	5.0 - 9.0% of mass 176	5.9 (6.7)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.19PPB	R1717996-2	V30230713N03	07/13/23 18:46
STD0.5PPB	R1717996-4	V30230713N05	07/13/23 19:31
STD2.0PPB	R1717996-1	V30230713N07	07/13/23 20:15
STD10PPB	R1717996-3	V30230713N09	07/13/23 20:59
STD30PPB	R1717996-7	V30230713N10	07/13/23 21:21
STD80PPB	R1717996-5	V30230713N11	07/13/23 21:44
STD120PPB	R1717996-6	V30230713N12	07/13/23 22:06
STD200PPB	R1717996-8	V30230713N13	07/13/23 22:28
ICV Quant Report	R1717996-9	V30230713N18	07/14/23 00:18



Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: LaBella Associates, P.C.	Lab Number	: L2343170
Project Name	: 42 YORK STREET	Project Number	: 2230119
Instrument ID	: VOA130	Analysis Date	: 08/04/23 06:38
Tune Standard	: WG1811888-1	Tune File ID	: V30230804ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 80.0% of mass 95	47.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1.1 (1.1)1
174	Greater than 50.0% of mass 95	98.2
175	5.0 - 9.0% of mass 174	7.5 (7.6)1
176	Greater than 95.0% but less than 101% of mass	93.9 (95.6)1
177	5.0 - 9.0% of mass 176	6.2 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1811888-2CCAL	WG1811888-2	V30230804A01	08/04/23 06:51
WG1811888-3LCS	WG1811888-3	V30230804A01	08/04/23 06:51
WG1811888-4LCSD	WG1811888-4	V30230804A02	08/04/23 07:13
WG1811888-5BLANK	WG1811888-5	V30230804A05	08/04/23 08:18
YS-MW-2023-01 072623	L2343170-01	V30230804A17	08/04/23 12:40
MW-01 072623	L2343170-02	V30230804A18	08/04/23 13:02
YS-MW-BD- 072623	L2343170-03	V30230804A19	08/04/23 13:24
TRIP BLANK	L2343170-04	V30230804A20	08/04/23 13:46
WG1811888-6MS	WG1811888-6	V30230804A27	08/04/23 16:20
WG1811888-7MSD	WG1811888-7	V30230804A28	08/04/23 16:42



Internal Standard Area and RT Summary

Form 8a

Volatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : VOA130
 Sample No : WG1811888-2

Lab Number : L2343170
 Project Number : 2230119
 Analysis Date : 08/04/23 06:51:00
 Lab File ID : V30230804A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1811888-2	302647	6.14	290495	9.71	184997	12.39
Upper Limit	605294	6.64	580990	10.21	369994	12.89
Lower Limit	151324	5.64	145248	9.21	92499	11.89
Sample ID						
WG1811888-3 LCS	302647	6.14	290495	9.71	184997	12.39
WG1811888-4 LCSD	280092	6.14	281930	9.70	182469	12.39
WG1811888-5 BLANK	243755	6.14	261461	9.70	150280	12.39
YS-MW-2023-01 072623	227004	6.14	242050	9.70	138803	12.39
MW-01 072623	226548	6.14	239150	9.70	136990	12.39
YS-MW-BD- 072623	222752	6.14	234676	9.70	134102	12.39
TRIP BLANK	226314	6.14	238779	9.70	134311	12.39
YS-MW-2023-01 072623 MS	245186	6.14	247059	9.70	162092	12.39
YS-MW-2023-01 072623 MSD	254381	6.14	259163	9.70	169038	12.39

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits





Date Created: 03/15/23
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 File: PM14094-1
 Page: 1

Volatile Organics - EPA 8260D (WATER)

Holding Time: 14 days
 Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.21	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.24	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.2	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.33	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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 Page: 2

Volatile Organics - EPA 8260D (WATER)

Holding Time: 14 days
 Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20	
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20	
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20	
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20	
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20	
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20	
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20	
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20	
Acrylonitrile	107-13-1	5	0.43	ug/l	70-130	20	70-130	20	20	
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20	
Tetrahydrofuran	109-99-9	5	0.525	ug/l	58-130	20	58-130	20	20	
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20	
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20	
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20	
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20	
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20	
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20	
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20	
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20	
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20	
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20	
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20	
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20	
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20	
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20	
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20	
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20	
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20	
1,2,4-Trichlorobenzene	120-82-1	2.5	0.22	ug/l	70-130	20	70-130	20	20	
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20	
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20	
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20	
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20	
1,2-Dichloroethane-d4	17060-07-0									70-130
Toluene-d8	2037-26-5									70-130
4-Bromofluorobenzene	460-00-4									70-130
Dibromofluoromethane	1868-53-7									70-130

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 Page: 1

VOCs - EPA 8260D/5035 High & Low (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.14	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.23	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.14	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1	0.267	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	4	0.695	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	0.5	0.109	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.273	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.158	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	0.5	0.159	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.246	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	4	0.932	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.581	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.452	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.56	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
Dibromomethane	74-95-3	2	0.238	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobutane	110-56-5	10	0.226	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30			

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 Page: 2

VOCs - EPA 8260D/5035 High & Low (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Dichlorodifluoromethane	75-71-8	10	0.915	ug/kg	30-146	30	30-146	30	30	
Acetone	67-64-1	25	10	ug/kg	54-140	30	54-140	30	30	
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30	
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30	
Vinyl acetate	108-05-4	10	2.15	ug/kg	70-130	30	70-130	30	30	
4-Methyl-2-pentanone	108-10-1	10	1.28	ug/kg	70-130	30	70-130	30	30	
2-Hexanone	591-78-6	10	1.18	ug/kg	70-130	30	70-130	30	30	
Ethyl methacrylate	97-63-2	10	1.58	ug/kg	70-130	30	70-130	30	30	
Acrylonitrile	107-13-1	4	1.15	ug/kg	70-130	30	70-130	30	30	
Bromochloromethane	74-97-5	2	0.205	ug/kg	70-130	30	70-130	30	30	
Tetrahydrofuran	109-99-9	4	1.59	ug/kg	66-130	30	66-130	30	30	
2,2-Dichloropropane	594-20-7	2	0.202	ug/kg	70-130	30	70-130	30	30	
1,2-Dibromoethane	106-93-4	1	0.279	ug/kg	70-130	30	70-130	30	30	
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30	
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.132	ug/kg	70-130	30	70-130	30	30	
Bromobenzene	108-86-1	2	0.145	ug/kg	70-130	30	70-130	30	30	
n-Butylbenzene	104-51-8	1	0.167	ug/kg	70-130	30	70-130	30	30	
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30	
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30	
o-Chlorotoluene	95-49-8	2	0.191	ug/kg	70-130	30	70-130	30	30	
p-Chlorotoluene	106-43-4	2	0.108	ug/kg	70-130	30	70-130	30	30	
1,2-Dibromo-3-chloropropane	96-12-8	3	0.998	ug/kg	68-130	30	68-130	30	30	
Hexachlorobutadiene	87-68-3	4	0.169	ug/kg	67-130	30	67-130	30	30	
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30	
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30	
Naphthalene	91-20-3	4	0.65	ug/kg	70-130	30	70-130	30	30	
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30	
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30	
1,2,4-Trichlorobenzene	120-82-1	2	0.272	ug/kg	70-130	30	70-130	30	30	
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30	
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30	
trans-1,4-Dichloro-2-butene	110-57-6	5	1.42	ug/kg	70-130	30	70-130	30	30	
Ethyl ether	60-29-7	2	0.341	ug/kg	67-130	30	67-130	30	30	
1,2-Dichloroethane-d4	17060-07-0									70-130
Toluene-d8	2037-26-5									70-130
4-Bromofluorobenzene	460-00-4									70-130
Dibromofluoromethane	1868-53-7									70-130

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Volatiles Sample Data

Results Summary

Form 1

Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-01
 Client ID : YS-MW-2023-01 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V30230804A17
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 10:45
 Date Received : 07/26/23
 Date Analyzed : 08/04/23 12:40
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA130
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,1,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-01
 Client ID : YS-MW-2023-01 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V30230804A17
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 10:45
 Date Received : 07/26/23
 Date Analyzed : 08/04/23 12:40
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA130
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	2.9	0.50	0.18	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U



Results Summary
Form 1
Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-01
 Client ID : YS-MW-2023-01 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V30230804A17
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 10:45
 Date Received : 07/26/23
 Date Analyzed : 08/04/23 12:40
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA130
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Results Summary
Form 1
Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-02
 Client ID : MW-01 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V30230804A18
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 13:10
 Date Received : 07/26/23
 Date Analyzed : 08/04/23 13:02
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA130
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,1,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-02
 Client ID : MW-01 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V30230804A18
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 13:10
 Date Received : 07/26/23
 Date Analyzed : 08/04/23 13:02
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA130
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U



Results Summary
Form 1
Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-02
 Client ID : MW-01 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V30230804A18
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 13:10
 Date Received : 07/26/23
 Date Analyzed : 08/04/23 13:02
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA130
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-03
 Client ID : YS-MW-BD- 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V30230804A19
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 00:00
 Date Received : 07/26/23
 Date Analyzed : 08/04/23 13:24
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA130
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,1,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-03
 Client ID : YS-MW-BD- 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V30230804A19
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 00:00
 Date Received : 07/26/23
 Date Analyzed : 08/04/23 13:24
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA130
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	2.8	0.50	0.18	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	1.5	5.0	1.5	J
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U



Results Summary
Form 1
Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-03
 Client ID : YS-MW-BD- 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V30230804A19
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 00:00
 Date Received : 07/26/23
 Date Analyzed : 08/04/23 13:24
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA130
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-04
 Client ID : TRIP BLANK
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V30230804A20
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 00:00
 Date Received : 07/26/23
 Date Analyzed : 08/04/23 13:46
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA130
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,1,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Results Summary
Form 1
Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-04
 Client ID : TRIP BLANK
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V30230804A20
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 00:00
 Date Received : 07/26/23
 Date Analyzed : 08/04/23 13:46
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA130
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U



Results Summary
Form 1
Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-04
 Client ID : TRIP BLANK
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V30230804A20
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 00:00
 Date Received : 07/26/23
 Date Analyzed : 08/04/23 13:46
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA130
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Results Summary
Form 1
Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : WG1811888-5
 Client ID : WG1811888-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V30230804A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 08/04/23 08:18
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA130
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,1,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Results Summary
Form 1
Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Lab ID : WG1811888-5
Client ID : WG1811888-5BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 1,8260D
Lab File ID : V30230804A05
Sample Amount : 10 ml
Level : LOW
Extract Volume (MeOH) : N/A

Lab Number : L2343170
Project Number : 2230119
Date Collected : NA
Date Received : NA
Date Analyzed : 08/04/23 08:18
Dilution Factor : 1
Analyst : PID
Instrument ID : VOA130
GC Column : RTX-502.2
%Solids : N/A
Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U



Results Summary
Form 1
Volatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : WG1811888-5
 Client ID : WG1811888-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V30230804A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 08/04/23 08:18
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA130
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A17.D
 Acq On : 04 Aug 2023 12:40 pm
 Operator : VOA130:PID
 Sample : L2343170-01,31,10,10,,A
 Misc : WG1811888,ICAL20171
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 05 14:55:25 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
 Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.141	96	227004	10.000	ug/L	#	0.00
Standard Area 1 = 302647			Recovery =	75.01%			
63) Chlorobenzene-d5	9.701	117	242050	10.000	ug/L	#	0.00
Standard Area 1 = 290495			Recovery =	83.32%			
84) 1,4-Dichlorobenzene-d4	12.386	152	138803	10.000	ug/L		0.00
Standard Area 1 = 184997			Recovery =	75.03%			
System Monitoring Compounds							
39) Dibromofluoromethane	5.318	113	85186	12.293	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	122.93%			
47) 1,2-Dichloroethane-d4	5.853	65	78127	11.220	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	112.20%			
64) Toluene-d8	7.851	98	274681	9.508	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.08%			
88) 4-Bromofluorobenzene	11.180	95	101619	9.172	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	91.72%			
Target Compounds							
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	0.000		0		N.D.		
4) Vinyl chloride	0.000		0		N.D.		
5) Bromomethane	2.335	94	49		N.D.		
6) Chloroethane	0.000		0		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	3.069	76	1652	0.181	ug/L	#	73
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	0.000		0		N.D.		
17) Acetone	3.640	43	1184	1.347	ug/L	#	59
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	0.000		0		N.D.	d	
21) Methyl tert-butyl ether	0.000		0		N.D.		
25) 1,1-Dichloroethane	0.000		0		N.D.		
30) cis-1,2-Dichloroethene	0.000		0		N.D.		
34) Cyclohexane	0.000		0		N.D.		
35) Chloroform	0.000		0		N.D.		
37) Carbon tetrachloride	0.000		0		N.D.		
40) 1,1,1-Trichloroethane	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A17.D
 Acq On : 04 Aug 2023 12:40 pm
 Operator : VOA130:PID
 Sample : L2343170-01,31,10,10,,A
 Misc : WG1811888,ICAL20171
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 05 14:55:25 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
 Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone	0.000		0		N.D.	
45) Benzene	5.717	78	119		N.D.	
48) 1,2-Dichloroethane	0.000		0		N.D.	
51) Methyl cyclohexane	6.325	83	54		N.D.	
52) Trichloroethene	6.325	95	12170	2.921	ug/L #	82
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	7.908	92	352		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	9.701	91	431		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
90) n-Propylbenzene	11.180	91	373		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
95) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
99) tert-Butylbenzene	0.000		0		N.D.	
102) 1,2,4-Trimethylbenzene	0.000		0		N.D.	
103) sec-Butylbenzene	0.000		0		N.D.	
104) p-Isopropyltoluene	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	0.000		0		N.D.	
106) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) n-Butylbenzene	0.000		0		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) Naphthalene	0.000		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
Data File : V30230804A17.D
Acq On : 04 Aug 2023 12:40 pm
Operator : VOA130:PID
Sample : L2343170-01,31,10,10,,A
Misc : WG1811888,ICAL20171
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 05 14:55:25 2023
Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 14 09:22:26 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

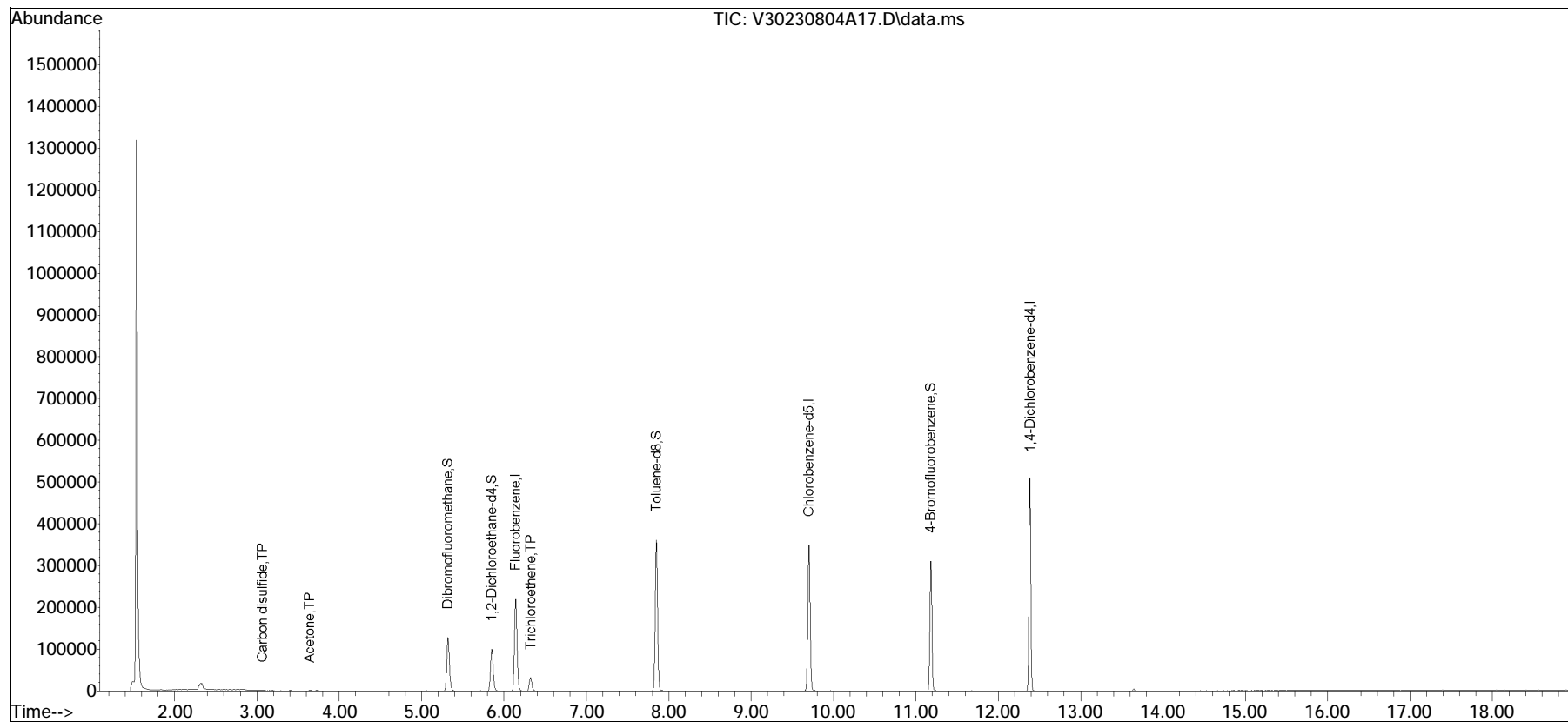
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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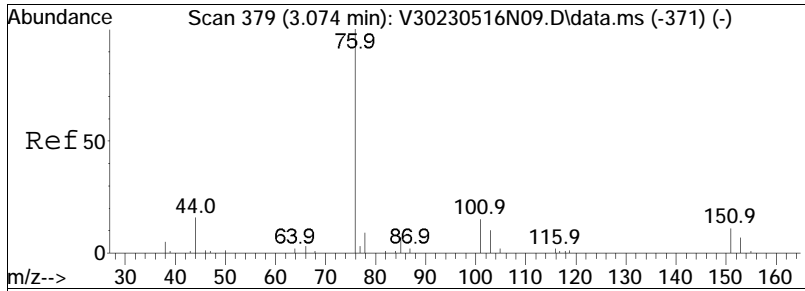
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
Data File : V30230804A17.D
Acq On : 04 Aug 2023 12:40 pm
Operator : VOA130:PID
Sample : L2343170-01,31,10,10,,A
Misc : WG1811888,ICAL20171
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 05 14:55:25 2023
Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 14 09:22:26 2023
Response via : Initial Calibration

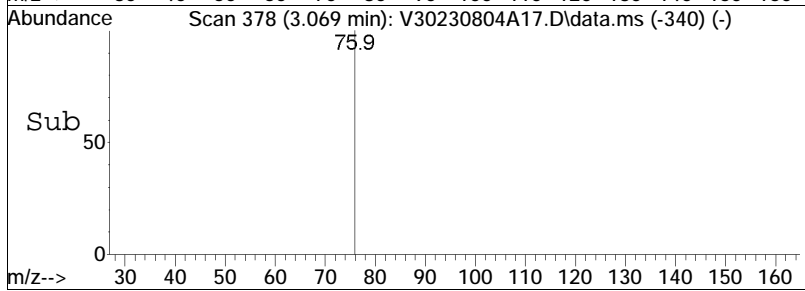
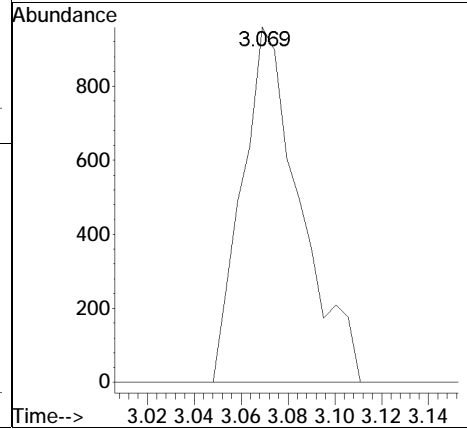
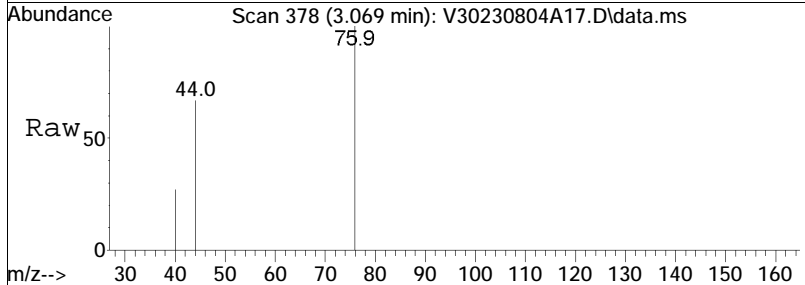
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0804A01.D•

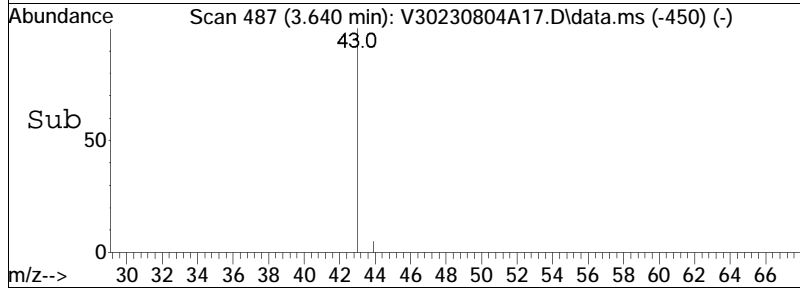
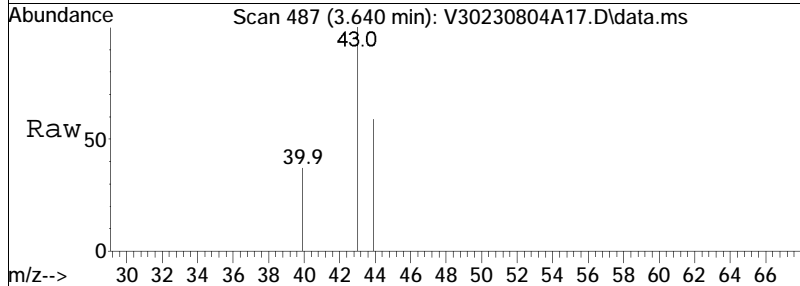
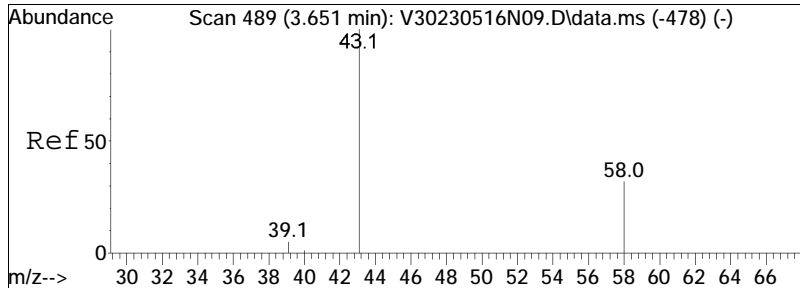




#11
 Carbon disulfide
 Concen: 0.18 ug/L
 RT: 3.069 min Scan# 378
 Delta R.T. -0.000 min
 Lab File: V30230804A17.D
 Acq: 04 Aug 2023 12:40 pm

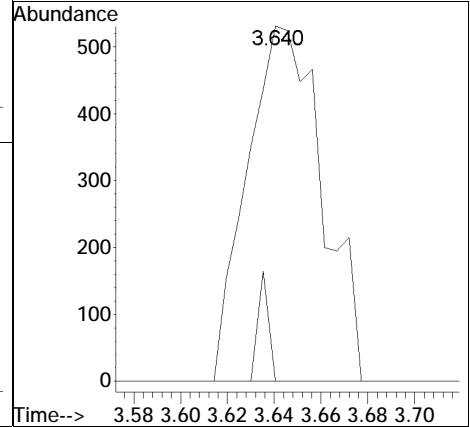
Tgt Ion: 76 Resp: 1652
 Ion Ratio Lower Upper
 76 100
 78 0.0 6.4 13.4#

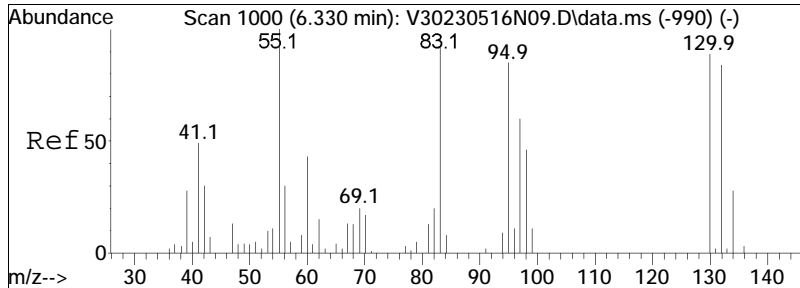




#17
 Acetone
 Concen: 1.35 ug/L
 RT: 3.640 min Scan# 487
 Delta R.T. -0.006 min
 Lab File: V30230804A17.D
 Acq: 04 Aug 2023 12:40 pm

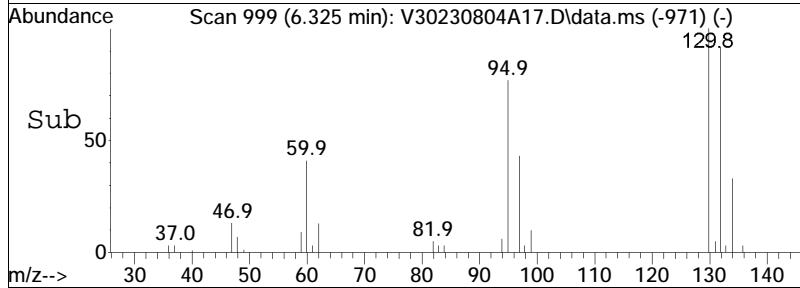
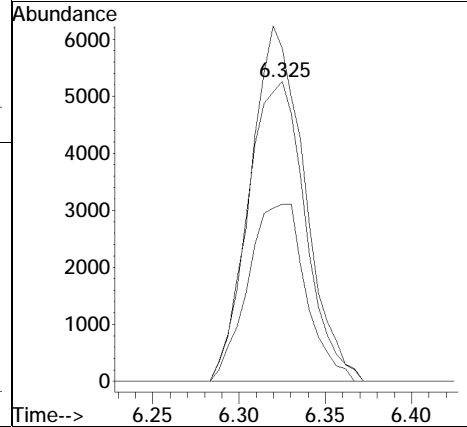
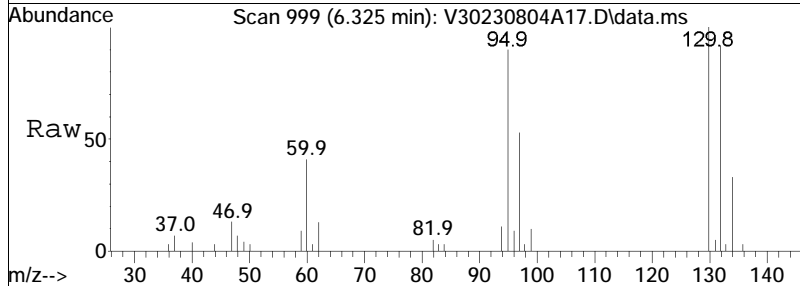
Tgt Ion:	43	58	Resp:	1184
Ion Ratio	100	4.4	Lower	Upper
			20.1	30.1#





#52
 Trichloroethene
 Concen: 2.92 ug/L
 RT: 6.325 min Scan# 999
 Delta R.T. 0.005 min
 Lab File: V30230804A17.D
 Acq: 04 Aug 2023 12:40 pm

Tgt Ion	Resp	Lower	Upper
95	12170		
95	100		
97	59.5	53.8	80.6
130	111.7	71.4	107.0#



Manual Integration Report

Data Path	: K:\VOA130\2023\230804A\	QMethod	: V130_230713N_8260D.m
Data File	: V30230804A17.D	Operator	: VOA130:PID
Date Inj'd	: 8/4/2023 12:40 pm	Instrument	: VOA130
Sample	: L2343170-01,31,10,10,,A	Quant Date	: 8/5/2023 2:51 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A18.D
 Acq On : 04 Aug 2023 01:02 pm
 Operator : VOA130:PID
 Sample : L2343170-02,31,10,10,,A
 Misc : WG1811888,ICAL20171
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 14:51:18 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
 Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.142	96	226548	10.000	ug/L	#	0.00
Standard Area 1 = 302647			Recovery =	74.86%			
63) Chlorobenzene-d5	9.702	117	239150	10.000	ug/L	#	0.00
Standard Area 1 = 290495			Recovery =	82.32%			
84) 1,4-Dichlorobenzene-d4	12.386	152	136990	10.000	ug/L		0.00
Standard Area 1 = 184997			Recovery =	74.05%			
System Monitoring Compounds							
39) Dibromofluoromethane	5.318	113	85855	12.415	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	124.15%			
47) 1,2-Dichloroethane-d4	5.848	65	75300	10.836	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.36%			
64) Toluene-d8	7.851	98	273818	9.593	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.93%			
88) 4-Bromofluorobenzene	11.180	95	100132	9.157	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	91.57%			
Target Compounds							
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	0.000		0		N.D.		
4) Vinyl chloride	0.000		0		N.D.		
5) Bromomethane	2.325	94	99		N.D.		
6) Chloroethane	2.330	64	56		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	3.074	76	665	0.073	ug/L	#	73
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	0.000		0		N.D.		
17) Acetone	3.646	43	1107	1.262	ug/L	#	62
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	3.772	43	49		N.D.		
21) Methyl tert-butyl ether	0.000		0		N.D.		
25) 1,1-Dichloroethane	0.000		0		N.D.		
30) cis-1,2-Dichloroethene	0.000		0		N.D.		
34) Cyclohexane	0.000		0		N.D.		
35) Chloroform	5.151	83	51		N.D.		
37) Carbon tetrachloride	0.000		0		N.D.		
40) 1,1,1-Trichloroethane	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A18.D
 Acq On : 04 Aug 2023 01:02 pm
 Operator : VOA130:PID
 Sample : L2343170-02,31,10,10,,A
 Misc : WG1811888,ICAL20171
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 14:51:18 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
 Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone	5.439	43	49		N.D.	
45) Benzene	0.000		0		N.D.	
48) 1,2-Dichloroethane	0.000		0		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	0.000		0		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	0.000		0		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	9.712	91	141		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
90) n-Propylbenzene	11.186	91	326		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
95) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
99) tert-Butylbenzene	0.000		0		N.D.	
102) 1,2,4-Trimethylbenzene	0.000		0		N.D.	
103) sec-Butylbenzene	0.000		0		N.D.	
104) p-Isopropyltoluene	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	0.000		0		N.D.	
106) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) n-Butylbenzene	0.000		0		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) Naphthalene	0.000		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
Data File : V30230804A18.D
Acq On : 04 Aug 2023 01:02 pm
Operator : VOA130:PID
Sample : L2343170-02,31,10,10,,A
Misc : WG1811888,ICAL20171
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 14:51:18 2023
Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 14 09:22:26 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

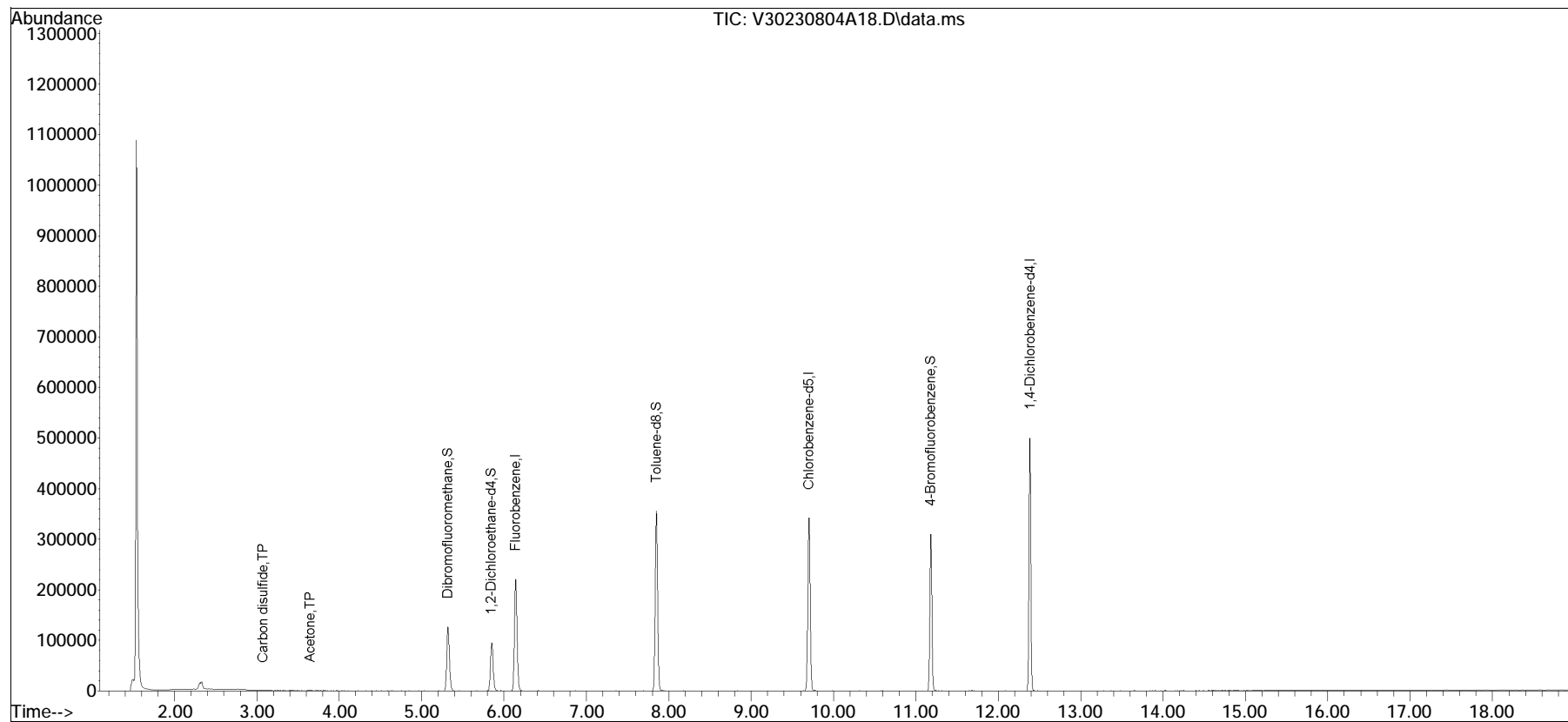
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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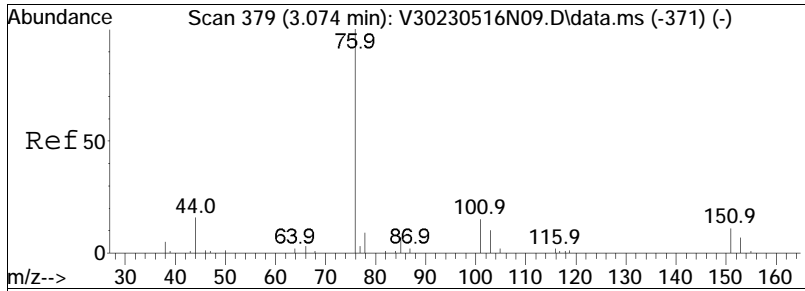
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
Data File : V30230804A18.D
Acq On : 04 Aug 2023 01:02 pm
Operator : VOA130:PID
Sample : L2343170-02,31,10,10,,A
Misc : WG1811888,ICAL20171
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 14:51:18 2023
Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 14 09:22:26 2023
Response via : Initial Calibration

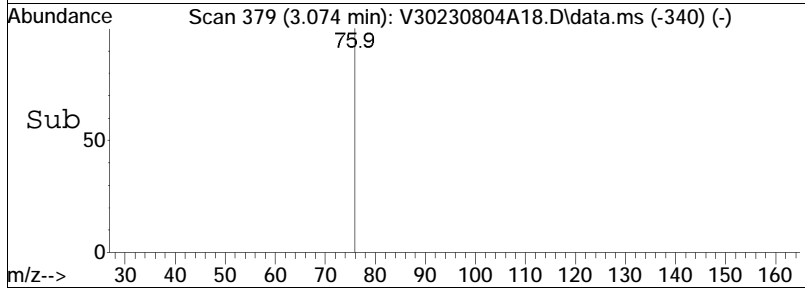
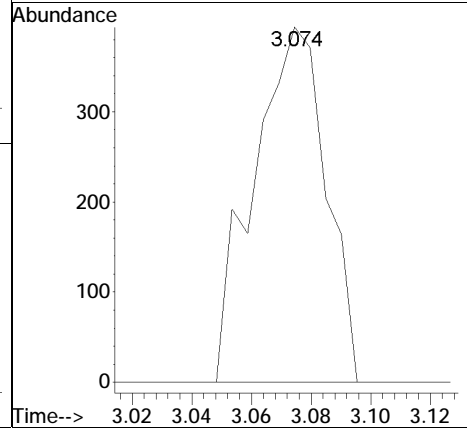
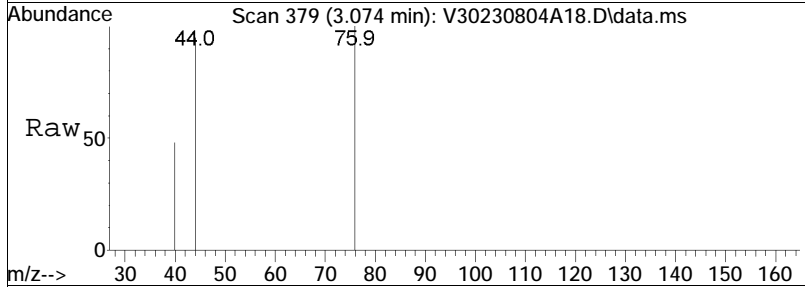
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0804A01.D•

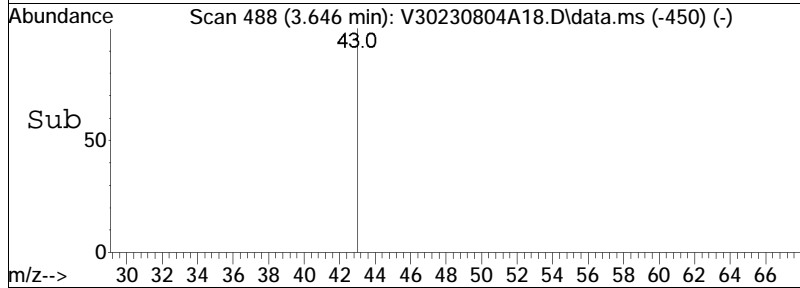
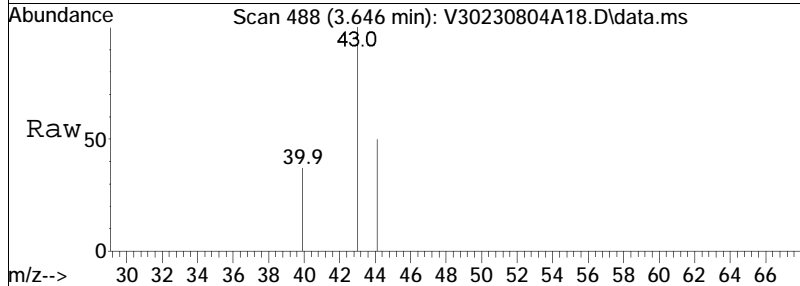
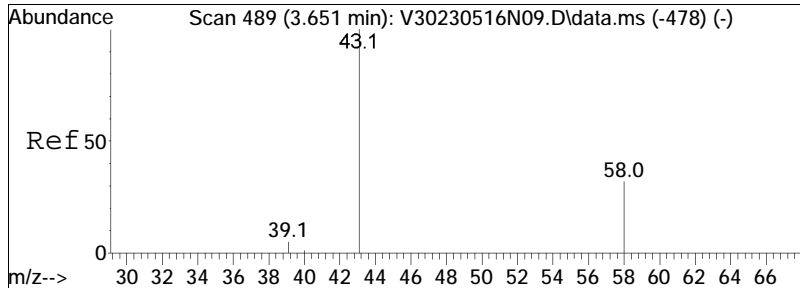




#11
 Carbon disulfide
 Concen: 0.07 ug/L
 RT: 3.074 min Scan# 379
 Delta R.T. 0.005 min
 Lab File: V30230804A18.D
 Acq: 04 Aug 2023 01:02 pm

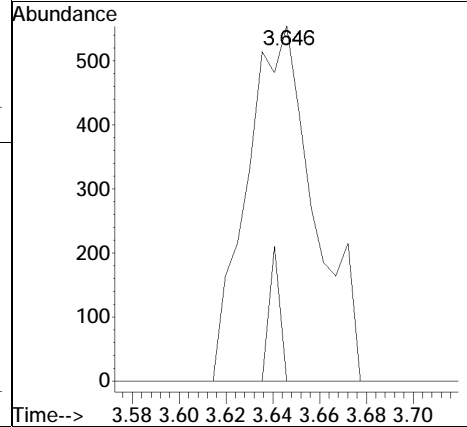
Tgt Ion: 76 Resp: 665
 Ion Ratio Lower Upper
 76 100
 78 0.0 6.4 13.4#





#17
 Acetone
 Concen: 1.26 ug/L
 RT: 3.646 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: V30230804A18.D
 Acq: 04 Aug 2023 01:02 pm

Tgt Ion:	43	58	Resp:	1107
Ion Ratio	100	6.0	Lower	Upper
			20.1	30.1#



Manual Integration Report

Data Path	: K:\VOA130\2023\230804A\	QMethod	: V130_230713N_8260D.m
Data File	: V30230804A18.D	Operator	: VOA130:PID
Date Inj'd	: 8/4/2023 1:02 pm	Instrument	: VOA130
Sample	: L2343170-02,31,10,10,,A	Quant Date	: 8/5/2023 2:51 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A19.D
 Acq On : 04 Aug 2023 01:24 pm
 Operator : VOA130:PID
 Sample : L2343170-03,31,10,10,,A
 Misc : WG1811888,ICAL20171
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 05 14:51:23 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
 Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.142	96	222752	10.000	ug/L	#	0.00
Standard Area 1 = 302647			Recovery =	73.60%			
63) Chlorobenzene-d5	9.702	117	234676	10.000	ug/L	#	0.00
Standard Area 1 = 290495			Recovery =	80.78%			
84) 1,4-Dichlorobenzene-d4	12.386	152	134102	10.000	ug/L		0.00
Standard Area 1 = 184997			Recovery =	72.49%			
System Monitoring Compounds							
39) Dibromofluoromethane	5.318	113	84817	12.474	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	124.74%			
47) 1,2-Dichloroethane-d4	5.853	65	76486	11.194	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	111.94%			
64) Toluene-d8	7.851	98	267762	9.560	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.60%			
88) 4-Bromofluorobenzene	11.180	95	100115	9.353	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.53%			
Target Compounds							
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	0.000		0		N.D.		
4) Vinyl chloride	0.000		0		N.D.		
5) Bromomethane	2.325	94	56		N.D.		
6) Chloroethane	2.335	64	57		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	3.074	76	1430	0.160	ug/L	#	73
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	0.000		0		N.D.		
17) Acetone	3.646	43	1298	1.505	ug/L	#	65
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	3.761	43	51		N.D.		
21) Methyl tert-butyl ether	0.000		0		N.D.		
25) 1,1-Dichloroethane	0.000		0		N.D.		
30) cis-1,2-Dichloroethene	0.000		0		N.D.		
34) Cyclohexane	0.000		0		N.D.		
35) Chloroform	0.000		0		N.D.		
37) Carbon tetrachloride	0.000		0		N.D.		
40) 1,1,1-Trichloroethane	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A19.D
 Acq On : 04 Aug 2023 01:24 pm
 Operator : VOA130:PID
 Sample : L2343170-03,31,10,10,,A
 Misc : WG1811888,ICAL20171
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 05 14:51:23 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
 Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone	0.000		0		N.D.	
45) Benzene	5.722	78	117		N.D.	
48) 1,2-Dichloroethane	0.000		0		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	6.325	95	11679	2.857	ug/L #	81
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	7.908	92	295		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	9.786	91	57		N.D.	
81) p/m Xylene	9.953	106	57		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
90) n-Propylbenzene	11.185	91	392		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
95) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
99) tert-Butylbenzene	0.000		0		N.D.	
102) 1,2,4-Trimethylbenzene	0.000		0		N.D.	
103) sec-Butylbenzene	0.000		0		N.D.	
104) p-Isopropyltoluene	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	0.000		0		N.D.	
106) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) n-Butylbenzene	0.000		0		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) Naphthalene	0.000		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
Data File : V30230804A19.D
Acq On : 04 Aug 2023 01:24 pm
Operator : VOA130:PID
Sample : L2343170-03,31,10,10,,A
Misc : WG1811888,ICAL20171
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 05 14:51:23 2023
Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 14 09:22:26 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

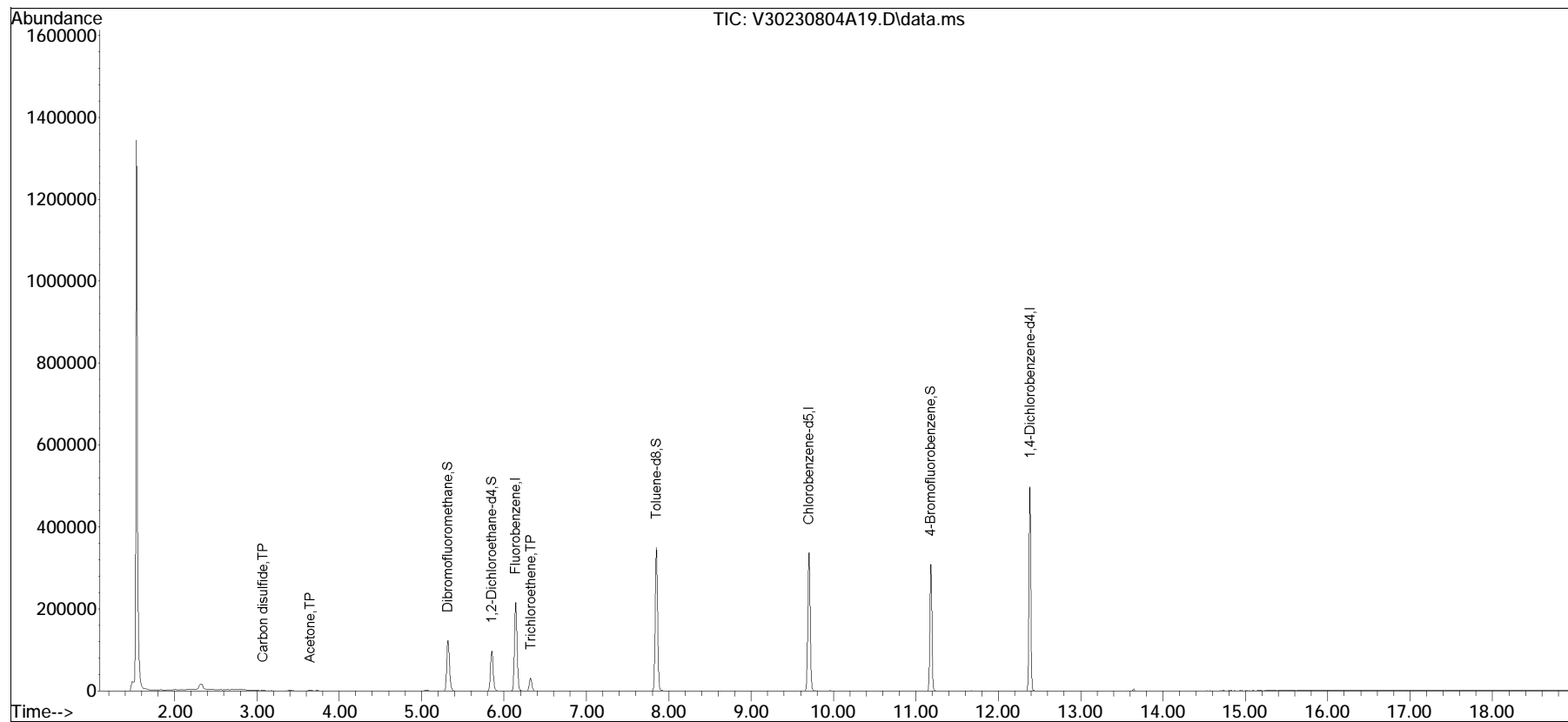
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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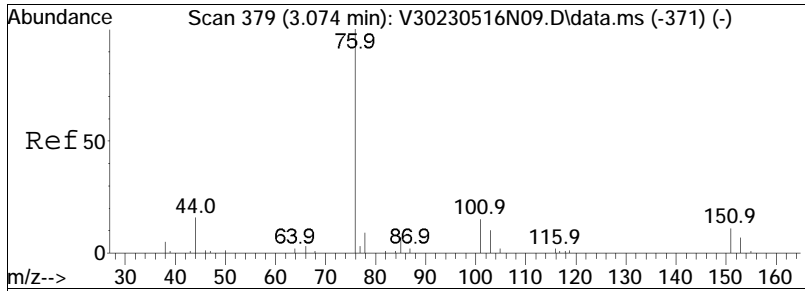
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
Data File : V30230804A19.D
Acq On : 04 Aug 2023 01:24 pm
Operator : VOA130:PID
Sample : L2343170-03,31,10,10,,A
Misc : WG1811888,ICAL20171
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 05 14:51:23 2023
Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 14 09:22:26 2023
Response via : Initial Calibration

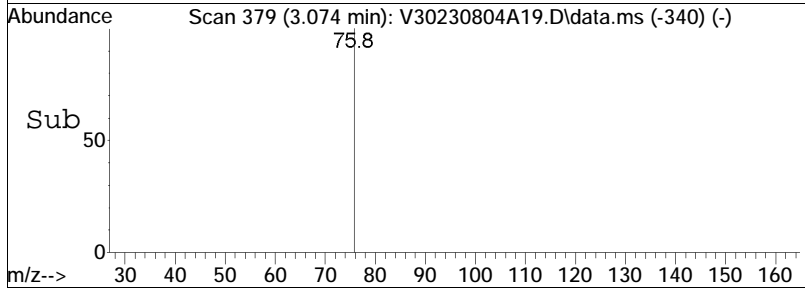
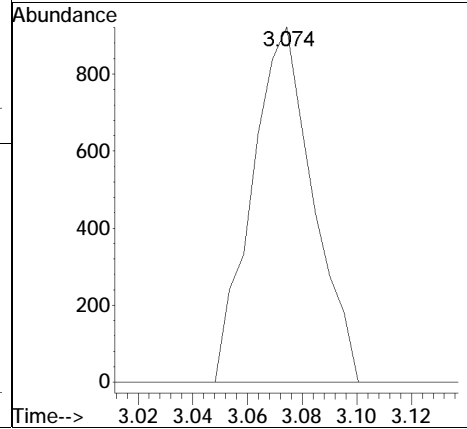
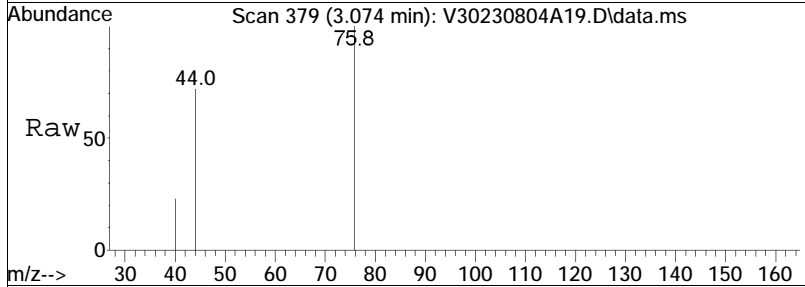
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0804A01.D•

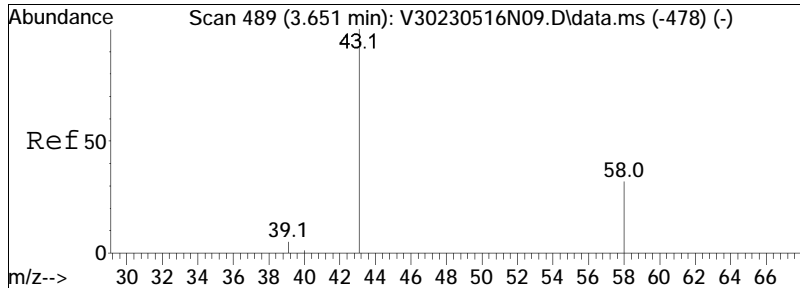




#11
 Carbon disulfide
 Concen: 0.16 ug/L
 RT: 3.074 min Scan# 379
 Delta R.T. 0.005 min
 Lab File: V30230804A19.D
 Acq: 04 Aug 2023 01:24 pm

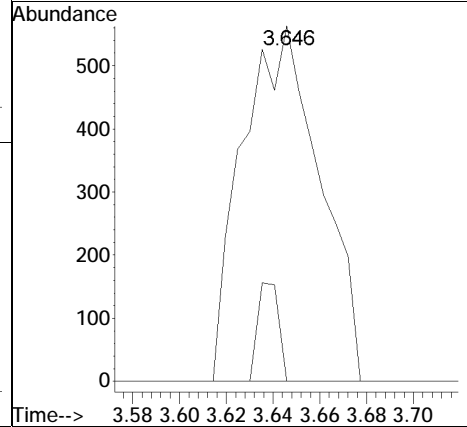
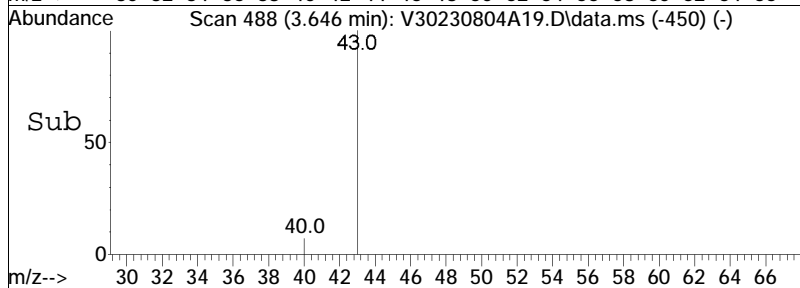
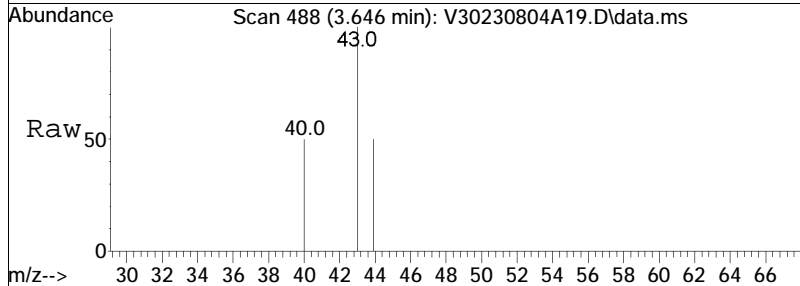
Tgt Ion: 76 Resp: 1430
 Ion Ratio Lower Upper
 76 100
 78 0.0 6.4 13.4#

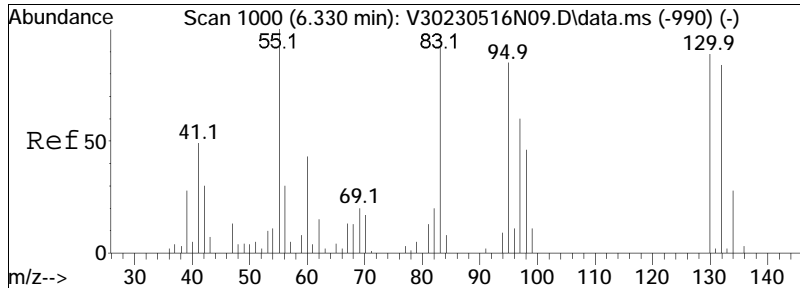




#17
 Acetone
 Concen: 1.50 ug/L
 RT: 3.646 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: V30230804A19.D
 Acq: 04 Aug 2023 01:24 pm

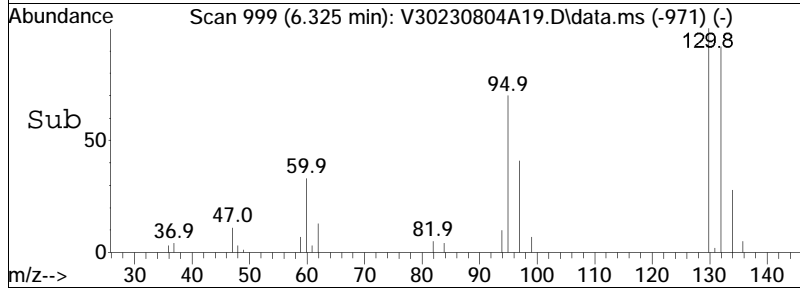
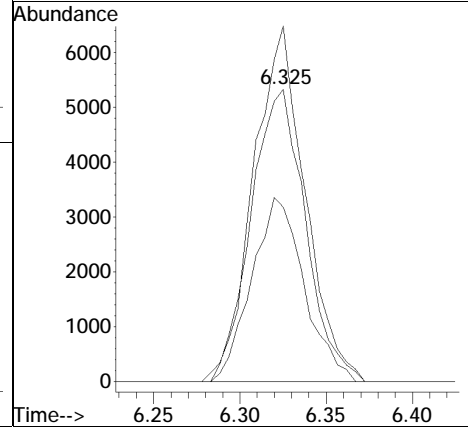
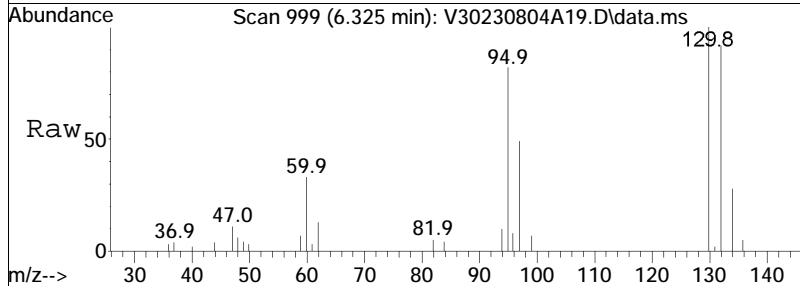
Tgt Ion:	43	58	Resp:	1298
Ion Ratio	100	7.5	Lower	Upper
			20.1	30.1#





#52
 Trichloroethene
 Concen: 2.86 ug/L
 RT: 6.325 min Scan# 999
 Delta R.T. 0.005 min
 Lab File: V30230804A19.D
 Acq: 04 Aug 2023 01:24 pm

Tgt Ion	Resp	Lower	Upper
95	11679		
95	100		
97	60.6	53.8	80.6
130	115.3	71.4	107.0#



Manual Integration Report

Data Path	: K:\VOA130\2023\230804A\	QMethod	: V130_230713N_8260D.m
Data File	: V30230804A19.D	Operator	: VOA130:PID
Date Inj'd	: 8/4/2023 1:24 pm	Instrument	: VOA130
Sample	: L2343170-03,31,10,10,,A	Quant Date	: 8/5/2023 2:51 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A20.D
 Acq On : 04 Aug 2023 01:46 pm
 Operator : VOA130:PID
 Sample : L2343170-04,31,10,10,,A
 Misc : WG1811888,ICAL20171
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 05 14:55:54 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
 Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.141	96	226314	10.000	ug/L	#	0.00
Standard Area 1 = 302647			Recovery =	74.78%			
63) Chlorobenzene-d5	9.701	117	238779	10.000	ug/L	#	0.00
Standard Area 1 = 290495			Recovery =	82.20%			
84) 1,4-Dichlorobenzene-d4	12.386	152	134311	10.000	ug/L		0.00
Standard Area 1 = 184997			Recovery =	72.60%			
System Monitoring Compounds							
39) Dibromofluoromethane	5.318	113	86216	12.480	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	124.80%			
47) 1,2-Dichloroethane-d4	5.848	65	78669	11.332	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	113.32%			
64) Toluene-d8	7.851	98	271356	9.521	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.21%			
88) 4-Bromofluorobenzene	11.180	95	100275	9.353	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.53%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	1.879	50	62		N.D.		
4) Vinyl chloride	0.000		0		N.D.		
5) Bromomethane	2.309	94	53		N.D.		
6) Chloroethane	0.000		0		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	3.074	76	480		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	3.609	84	118		N.D.		
17) Acetone	0.000		0		N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	3.766	43	107		N.D.		
21) Methyl tert-butyl ether	0.000		0		N.D.		
25) 1,1-Dichloroethane	0.000		0		N.D.		
30) cis-1,2-Dichloroethene	0.000		0		N.D.		
34) Cyclohexane	0.000		0		N.D.		
35) Chloroform	0.000		0		N.D.		
37) Carbon tetrachloride	0.000		0		N.D.		
40) 1,1,1-Trichloroethane	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A20.D
 Acq On : 04 Aug 2023 01:46 pm
 Operator : VOA130:PID
 Sample : L2343170-04,31,10,10,,A
 Misc : WG1811888,ICAL20171
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 05 14:55:54 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
 Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone	0.000		0		N.D.	
45) Benzene	0.000		0		N.D.	
48) 1,2-Dichloroethane	0.000		0		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	0.000		0		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	0.000		0		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	9.712	91	256		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
90) n-Propylbenzene	11.185	91	397		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
95) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
99) tert-Butylbenzene	0.000		0		N.D.	
102) 1,2,4-Trimethylbenzene	0.000		0		N.D.	
103) sec-Butylbenzene	0.000		0		N.D.	
104) p-Isopropyltoluene	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	0.000		0		N.D.	
106) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) n-Butylbenzene	0.000		0		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) Naphthalene	0.000		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
Data File : V30230804A20.D
Acq On : 04 Aug 2023 01:46 pm
Operator : VOA130:PID
Sample : L2343170-04,31,10,10,,A
Misc : WG1811888,ICAL20171
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 05 14:55:54 2023
Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 14 09:22:26 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

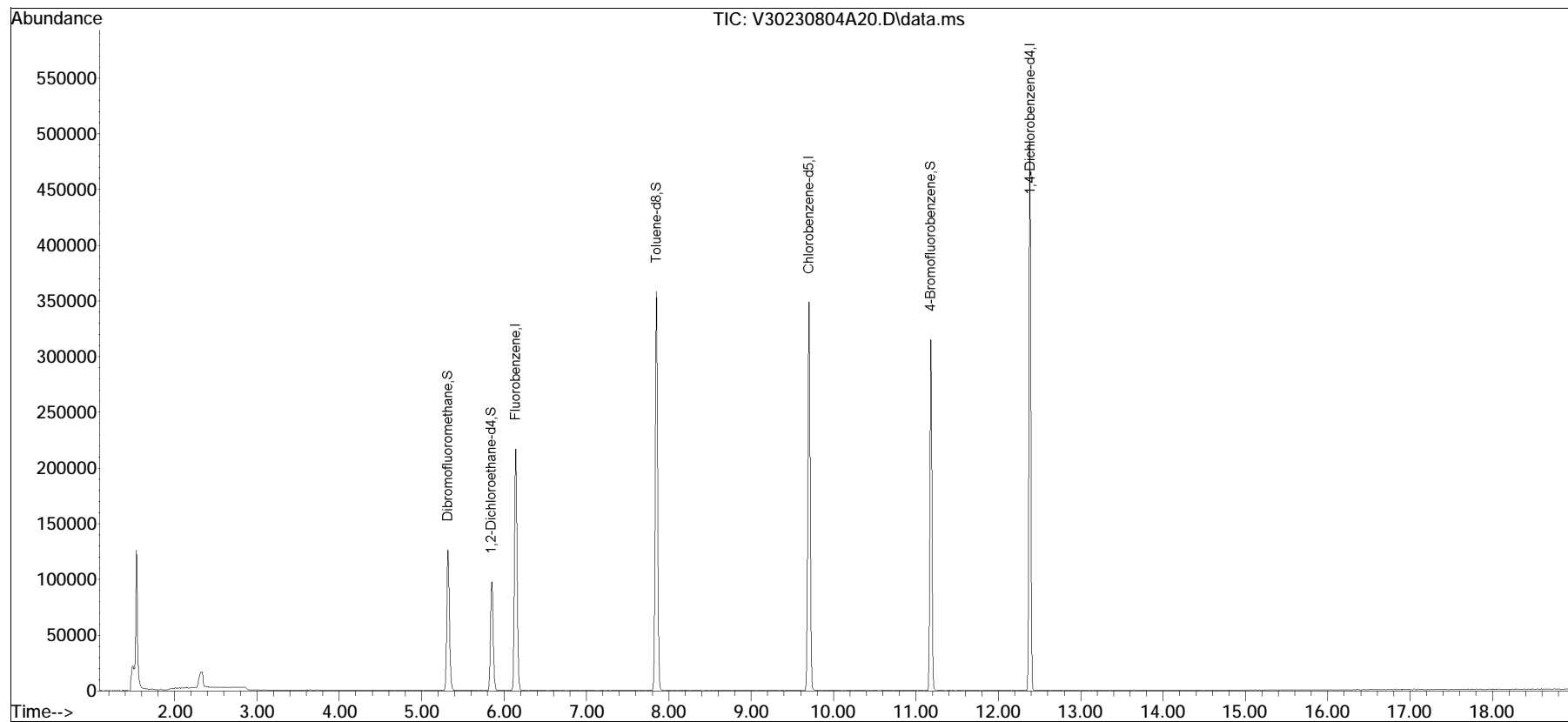
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
Data File : V30230804A20.D
Acq On : 04 Aug 2023 01:46 pm
Operator : VOA130:PID
Sample : L2343170-04,31,10,10,,A
Misc : WG1811888,ICAL20171
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 05 14:55:54 2023
Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 14 09:22:26 2023
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0804A01.D•



Manual Integration Report

Data Path	: K:\VOA130\2023\230804A\	QMethod	: V130_230713N_8260D.m
Data File	: V30230804A20.D	Operator	: VOA130:PID
Date Inj'd	: 8/4/2023 1:46 pm	Instrument	: VOA130
Sample	: L2343170-04,31,10,10,,A	Quant Date	: 8/5/2023 2:51 pm

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Volatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : VOA130
Calibration dates : 07/13/23 18:46 07/13/23 22:28

Lab Number : L2343170
Project Number : 2230119
Ical Ref : ICAL20171

Calibration Files

L11 =V30230713N03.D L1 =V30230713N05.D L2 =V30230713N07.D L3 =V30230713N09.D L4 =V30230713N10.D
 L6 =V30230713N11.D L8 =V30230713N12.D L10 =V30230713N13.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----									
2) TP Dichlorodifluo		0.180	0.228	0.218	0.203	0.209	0.199	0.206	0.206	7.45
3) TP Chloromethane		0.196	0.205	0.195	0.177	0.186	0.174	0.185	0.188	5.90
4) TC Vinyl chloride	0.242	0.192	0.226	0.217	0.196	0.206	0.189	0.200	0.209	8.92
5) TP Bromomethane		0.122	0.125	0.126	0.117	0.132	0.125	0.142	0.127	6.25
6) TP Chloroethane		0.132	0.145	0.139	0.127	0.131	0.120	0.128	0.132	6.12
7) TP Trichlorofluor		0.261	0.328	0.318	0.291	0.299	0.280	0.295	0.296	7.51
8) TP Ethyl ether		0.088	0.096	0.089	0.084	0.088	0.083	0.087	0.088	4.59
10) TC 1,1-Dichloroet		0.135	0.163	0.153	0.142	0.153	0.145	0.154	0.149	6.26
11) TP Carbon disulfide		0.444	0.435	0.399	0.367	0.395	0.372	0.397	0.401	7.24
12) TP Freon-113		0.132	0.171	0.169	0.156	0.164	0.157	0.165	0.159	8.31
14) TP Acrolein		0.024	0.022	0.021	0.021	0.021	0.021	0.021	0.022	6.36
15) TP Methylene chlo		0.197	0.180	0.172	0.158	0.168	0.156	0.165	0.171	8.30
17) TP Acetone			0.052	0.042	0.036	0.035	0.034	0.034	0.039	18.07
18) TP trans-1,2-Dich		0.172	0.176	0.170	0.157	0.169	0.157	0.168	0.167	4.34
19) TP Methyl acetate			0.114	0.092	0.087	0.089	0.088	0.089	0.093	11.05
21) TP Methyl tert butyl ether		0.364	0.362	0.379	0.383	0.416	0.399	0.411	0.388	5.54
22) TP tert-Butyl alc		0.013	0.012	0.011	0.011	0.011	0.011	0.011	0.012	5.59
24) TP Diisopropyl ether		0.445	0.468	0.462	0.459	0.513	0.481	0.509	0.477	5.44
25) TP 1,1-Dichloroet		0.292	0.329	0.312	0.287	0.308	0.281	0.298	0.301	5.46
26) TP Halothane		0.112	0.136	0.138	0.130	0.141	0.132	0.141	0.133	7.57
27) TP Acrylonitrile		0.042	0.047	0.046	0.042	0.042	0.042	0.042	0.043	5.46
28) TP Ethyl tert-but		0.403	0.422	0.431	0.435	0.488	0.464	0.490	0.448	7.49
29) TP Vinyl acetate			0.201	0.166	0.185	0.197	0.183	0.237	0.195	12.38
30) TP cis-1,2-Dichlo		0.193	0.202	0.196	0.182	0.196	0.181	0.191	0.191#	4.01
31) TP 2,2-Dichloropr		0.207	0.245	0.228	0.227	0.241	0.220	0.232	0.228	5.67
33) TP Bromochloromet		0.099	0.105	0.101	0.094	0.100	0.094	0.097	0.099#	3.97
34) TP Cyclohexane		0.210	0.274	0.279	0.270	0.287	0.270	0.283	0.268	9.77
35) TC Chloroform		0.301	0.327	0.319	0.292	0.310	0.281	0.296	0.304	5.25
36) TP Ethyl acetate		0.153	0.122	0.115	0.114	0.118	0.115	0.115	0.122	11.76
37) TP Carbon tetrachloride	0.204	0.192	0.259	0.257	0.250	0.272	0.254	0.268	0.244	12.23
38) TP Tetrahydrofuran		0.039	0.038	0.037	0.034	0.035	0.033	0.035	0.036	6.31
39) S Dibromofluoromethane	0.327	0.325	0.324	0.312	0.294	0.290	0.289	0.282	0.305	6.14
40) TP 1,1,1-Trichlor		0.239	0.277	0.285	0.265	0.284	0.261	0.276	0.270	6.00
42) TP 2-Butanone			0.060	0.053	0.052	0.052	0.051	0.049	0.053	7.23
43) TP 1,1-Dichloropr		0.165	0.201	0.205	0.205	0.224	0.207	0.219	0.204	9.41



Initial Calibration Summary

Form 6

Volatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : VOA130
Calibration dates : 07/13/23 18:46 07/13/23 22:28

Lab Number : L2343170
Project Number : 2230119
Ical Ref : ICAL20171

Calibration Files

L11 =V30230713N03.D L1 =V30230713N05.D L2 =V30230713N07.D L3 =V30230713N09.D L4 =V30230713N10.D
 L6 =V30230713N11.D L8 =V30230713N12.D L10 =V30230713N13.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
45) TP Benzene	0.571	0.562	0.593	0.598	0.583	0.644	0.592	0.622	0.596	4.44
46) TP Tertiary-Amyl Methyl Ether		0.360	0.369	0.368	0.373	0.412	0.393	0.412	0.384	5.65
47) S 1,2-Dichloroethane-d4	0.321	0.324	0.325	0.312	0.296	0.292	0.295	0.289	0.307	5.02
48) TP 1,2-Dichloroet		0.249	0.239	0.226	0.212	0.221	0.205	0.211	0.223	7.13
51) TP Methyl cyclohe		0.193	0.246	0.248	0.250	0.275	0.262	0.278	0.250	11.38
52) TP Trichloroethene	0.186	0.157	0.173	0.187	0.182	0.203	0.188	0.192	0.184#	7.41
54) TP Dibromomethane		0.106	0.112	0.104	0.100	0.105	0.099	0.102	0.104	4.26
55) TC 1,2-Dichloropr		0.139	0.149	0.157	0.156	0.170	0.157	0.166	0.156	6.53
57) TP 2-Chloroethyl		0.077	0.079	0.079	0.083	0.091	0.088	0.090	0.084	7.04
58) TP Bromodichlorom		0.202	0.216	0.228	0.223	0.243	0.224	0.235	0.224#	5.88
61) TP 1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	3.03
62) TP cis-1,3-Dichlo		0.202	0.213	0.228	0.237	0.265	0.247	0.260	0.236#	9.89
63) I Chlorobenzene-d5	-----ISTD-----									
64) S Toluene-d8	1.209	1.199	1.212	1.205	1.194	1.185	1.170	1.173	1.194	1.34
65) TC Toluene		0.423	0.470	0.462	0.452	0.498	0.453	0.483	0.463	5.24
66) TP 4-Methyl-2-pen		0.039	0.045	0.046	0.047	0.049	0.049	0.049	0.046	7.81
67) TP Tetrachloroethene		0.168	0.203	0.212	0.209	0.236	0.219	0.236	0.212	10.95
69) TP trans-1,3-Dich		0.196	0.206	0.227	0.246	0.276	0.258	0.270	0.240#	12.98
71) TP Ethyl methacry		0.175	0.170	0.178	0.176	0.187	0.178	0.181	0.178	2.96
72) TP 1,1,2-Trichlor		0.111	0.113	0.121	0.125	0.138	0.129	0.134	0.124#	8.19
73) TP Chlorodibromom		0.157	0.164	0.189	0.200	0.232	0.218	0.230	0.199#	15.22
74) TP 1,3-Dichloropr		0.213	0.231	0.243	0.248	0.272	0.255	0.262	0.246	7.98
75) TP 1,2-Dibromoethane		0.125	0.143	0.148	0.154	0.171	0.163	0.168	0.153#	10.45
77) TP 2-Hexanone		0.108	0.093	0.087	0.087	0.089	0.086	0.085	0.091	8.88
78) T Chlorobenzene		0.509	0.541	0.541	0.527	0.581	0.530	0.561	0.542	4.38
79) TC Ethylbenzene		0.801	0.886	0.917	0.892	0.973	0.877	0.915	0.894	5.81
80) T 1,1,1,2-Tetrac		0.149	0.176	0.190	0.201	0.234	0.215	0.230	0.199	15.31
81) TP p/m Xylene		0.307	0.361	0.379	0.375	0.408	0.367	0.388	0.369	8.50
82) TP o Xylene		0.317	0.349	0.370	0.366	0.402	0.363	0.384	0.365	7.41
83) TP Styrene		0.478	0.548	0.602	0.612	0.674	0.603	0.625	0.592	10.55
84) I 1,4-Dichlorobenzene-d4	-----ISTD-----									
85) TP Bromoform		0.165	0.177	0.185	0.199	0.232	0.219	0.235	0.202	13.60
87) TP Isopropylbenzene		1.338	1.583	1.565	1.484	1.645	1.457	1.530	1.515	6.59
88) S 4-Bromofluorobenzene	0.866	0.860	0.847	0.799	0.767	0.760	0.745	0.741	0.798	6.59
89) TP Bromobenzene		0.419	0.441	0.414	0.395	0.440	0.399	0.424	0.419	4.32
90) TP n-Propylbenzene		1.521	1.760	1.794	1.723	1.914	1.703	1.756	1.739	6.78



Initial Calibration Summary

Form 6

Volatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : VOA130
Calibration dates : 07/13/23 18:46 07/13/23 22:28

Lab Number : L2343170
Project Number : 2230119
Ical Ref : ICAL20171

Calibration Files

L11 =V30230713N03.D L1 =V30230713N05.D L2 =V30230713N07.D L3 =V30230713N09.D L4 =V30230713N10.D
 L6 =V30230713N11.D L8 =V30230713N12.D L10 =V30230713N13.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
91) TP 1,4-Dichlorobu	0.428	0.426	0.393	0.376	0.400	0.372	0.381	0.397	5.77	
92) TP 1,1,2,2-Tetrac	0.273	0.271	0.252	0.250	0.269	0.250	0.271	0.262	4.13	
93) TP 4-Ethyltoluene	1.241	1.458	1.533	1.495	1.687	1.501	1.562	1.497	8.99	
94) TP 2-Chlorotoluene	0.998	1.128	1.090	1.027	1.135	1.009	1.066	1.064	5.22	
95) TP 1,3,5-Trimethy	1.011	1.161	1.238	1.244	1.439	1.301	1.375	1.252	11.25	
96) TP 1,2,3-Trichlor	0.257	0.239	0.226	0.214	0.225	0.211	0.218	0.227	7.02	
97) TP trans-1,4-Dich	0.077	0.092	0.085	0.084	0.088	0.081	0.084	0.085	5.58	
98) TP 4-Chlorotoluene	1.004	1.114	1.115	1.070	1.179	1.055	1.106	1.092	5.07	
99) TP tert-Butylbenzene	0.938	1.129	1.168	1.127	1.261	1.125	1.183	1.133	8.72	
102) TP 1,2,4-Trimethy	1.014	1.125	1.195	1.208	1.421	1.285	1.357	1.229	11.26	
103) TP sec-Butylbenzene	1.263	1.549	1.638	1.589	1.784	1.597	1.644	1.581	10.03	
104) TP p-Isopropyltol	1.020	1.297	1.402	1.409	1.621	1.464	1.513	1.390	13.78	
105) TP 1,3-Dichlorobe	0.756	0.794	0.813	0.792	0.891	0.802	0.839	0.813	5.26	
106) TP 1,4-Dichlorobe	0.732	0.814	0.817	0.792	0.893	0.805	0.846	0.814	6.04	
107) TP p-Diethylbenzene	0.596	0.709	0.785	0.807	0.965	0.878	0.930	0.810	15.89	
108) TP n-Butylbenzene	0.803	0.979	1.081	1.103	1.292	1.164	1.205	1.090	14.73	
109) TP 1,2-Dichlorobe	0.716	0.757	0.774	0.753	0.849	0.765	0.799	0.773	5.38	
110) TP 1,2,4,5-Tetram	0.931	1.078	1.153	1.172	1.447	1.327	1.415	1.218	15.42	
111) TP 1,2-Dibromo-3-	0.050	0.048	0.051	0.054	0.059	0.058	0.058	0.054	8.15	
112) TP 1,3,5-Trichlor	0.423	0.471	0.496	0.517	0.634	0.583	0.622	0.535	14.88	
113) TP Hexachlorobuta	0.133	0.162	0.175	0.181	0.217	0.202	0.215	0.184	16.51	
114) TP 1,2,4-Trichlor	0.424	0.440	0.449	0.453	0.543	0.498	0.530	0.477	9.84	
115) TP Naphthalene	1.078	1.065	1.059	1.047	1.159	1.085	1.103	1.085	3.45	
116) TP 1,2,3-Trichlor	0.398	0.437	0.435	0.439	0.506	0.466	0.494	0.453	8.27	



Response Factor Report VOA130

Method Path : K:\VOA130\2023\230713NICAL\
 Method File : V130_230713N_8260D.m
 Title : VOLATILES BY GC/MS
 Last Update : Fri Jul 14 09:22:26 2023
 Response Via : Initial Calibration

Calibration Files

L11 =V30230713N03.D L1 =V30230713N05.D L2 =V30230713N07.D L3 =V30230713N09.D L4 =V30230713N10.D
 L6 =V30230713N11.D L8 =V30230713N12.D L10 =V30230713N13.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
-----ISTD-----										
1) I Fluorobenzene										
2) TP Dichlorodifluo...	0.180	0.228	0.218	0.203	0.209	0.199	0.206	0.206	7.45	
3) TP Chloromethane	0.196	0.205	0.195	0.177	0.186	0.174	0.185	0.188	5.90	
4) TC Vinyl chloride	0.242	0.192	0.226	0.217	0.196	0.206	0.189	0.200	8.92	
5) TP Bromomethane	0.122	0.125	0.126	0.117	0.132	0.125	0.142	0.127	6.25	
6) TP Chloroethane	0.132	0.145	0.139	0.127	0.131	0.120	0.128	0.132	6.12	
7) TP Trichlorofluor...	0.261	0.328	0.318	0.291	0.299	0.280	0.295	0.296	7.51	
8) TP Ethyl ether	0.088	0.096	0.089	0.084	0.088	0.083	0.087	0.088	4.59	
10) TC 1,1-Dichloroet...	0.135	0.163	0.153	0.142	0.153	0.145	0.154	0.149	6.26	
11) TP Carbon disulfide	0.444	0.435	0.399	0.367	0.395	0.372	0.397	0.401	7.24	
12) TP Freon-113	0.132	0.171	0.169	0.156	0.164	0.157	0.165	0.159	8.31	
14) TP Acrolein	0.024	0.022	0.021	0.021	0.021	0.021	0.021	0.022	6.36	
15) TP Methylene chlo...	0.197	0.180	0.172	0.158	0.168	0.156	0.165	0.171	8.30	
17) TP Acetone		0.052	0.042	0.036	0.035	0.034	0.034	0.039	18.07	
18) TP trans-1,2-Dich...	0.172	0.176	0.170	0.157	0.169	0.157	0.168	0.167	4.34	
19) TP Methyl acetate		0.114	0.092	0.087	0.089	0.088	0.089	0.093	11.05	
21) TP Methyl tert-bu...	0.364	0.362	0.379	0.383	0.416	0.399	0.411	0.388	5.54	
22) TP tert-Butyl alc...	0.013	0.012	0.011	0.011	0.011	0.011	0.011	0.012	5.59	
24) TP Diisopropyl ether	0.445	0.468	0.462	0.459	0.513	0.481	0.509	0.477	5.44	
25) TP 1,1-Dichloroet...	0.292	0.329	0.312	0.287	0.308	0.281	0.298	0.301	5.46	
26) TP Halothane	0.112	0.136	0.138	0.130	0.141	0.132	0.141	0.133	7.57	
27) TP Acrylonitrile	0.042	0.047	0.046	0.042	0.042	0.042	0.042	0.043	5.46	
28) TP Ethyl tert-but...	0.403	0.422	0.431	0.435	0.488	0.464	0.490	0.448	7.49	
29) TP Vinyl acetate		0.201	0.166	0.185	0.197	0.183	0.237	0.195	12.38	
30) TP cis-1,2-Dichlo...	0.193	0.202	0.196	0.182	0.196	0.181	0.191	0.191#	4.01	
31) TP 2,2-Dichloropr...	0.207	0.245	0.228	0.227	0.241	0.220	0.232	0.228	5.67	
33) TP Bromochloromet...	0.099	0.105	0.101	0.094	0.100	0.094	0.097	0.099#	3.97	
34) TP Cyclohexane	0.210	0.274	0.279	0.270	0.287	0.270	0.283	0.268	9.77	
35) TC Chloroform	0.301	0.327	0.319	0.292	0.310	0.281	0.296	0.304	5.25	
36) TP Ethyl acetate	0.153	0.122	0.115	0.114	0.118	0.115	0.115	0.122	11.76	
37) TP Carbon tetrach...	0.204	0.192	0.259	0.257	0.250	0.272	0.254	0.244	12.23	

Response Factor Report VOA130

Method Path : K:\VOA130\2023\230713NICAL\
 Method File : V130_230713N_8260D.m
 Title : VOLATILES BY GC/MS
 Last Update : Fri Jul 14 09:22:26 2023
 Response Via : Initial Calibration

Calibration Files

L11 =V30230713N03.D L1 =V30230713N05.D L2 =V30230713N07.D L3 =V30230713N09.D L4 =V30230713N10.D
 L6 =V30230713N11.D L8 =V30230713N12.D L10 =V30230713N13.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
38) TP Tetrahydrofuran	0.039	0.038	0.037	0.034	0.035	0.033	0.035	0.036	6.31	
39) S Dibromofluorom...	0.327	0.325	0.324	0.312	0.294	0.290	0.289	0.282	0.305	6.14
40) TP 1,1,1-Trichlor...	0.239	0.277	0.285	0.265	0.284	0.261	0.276	0.270		6.00
42) TP 2-Butanone		0.060	0.053	0.052	0.052	0.051	0.049	0.053		7.23
43) TP 1,1-Dichloropr...	0.165	0.201	0.205	0.205	0.224	0.207	0.219	0.204		9.41
45) TP Benzene	0.571	0.562	0.593	0.598	0.583	0.644	0.592	0.622	0.596	4.44
46) TP tert-Amyl meth...		0.360	0.369	0.368	0.373	0.412	0.393	0.412	0.384	5.65
47) S 1,2-Dichloroet...	0.321	0.324	0.325	0.312	0.296	0.292	0.295	0.289	0.307	5.02
48) TP 1,2-Dichloroet...		0.249	0.239	0.226	0.212	0.221	0.205	0.211	0.223	7.13
51) TP Methyl cyclohe...		0.193	0.246	0.248	0.250	0.275	0.262	0.278	0.250	11.38
52) TP Trichloroethene	0.186	0.157	0.173	0.187	0.182	0.203	0.188	0.192	0.184#	7.41
54) TP Dibromomethane		0.106	0.112	0.104	0.100	0.105	0.099	0.102	0.104	4.26
55) TC 1,2-Dichloropr...		0.139	0.149	0.157	0.156	0.170	0.157	0.166	0.156	6.53
57) TP 2-Chloroethyl ...		0.077	0.079	0.079	0.083	0.091	0.088	0.090	0.084	7.04
58) TP Bromodichlorom...		0.202	0.216	0.228	0.223	0.243	0.224	0.235	0.224#	5.88
61) TP 1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	3.03
62) TP cis-1,3-Dichlo...		0.202	0.213	0.228	0.237	0.265	0.247	0.260	0.236#	9.89
63) I Chlorobenzene-d5	-----ISTD-----									
64) S Toluene-d8	1.209	1.199	1.212	1.205	1.194	1.185	1.170	1.173	1.194	1.34
65) TC Toluene		0.423	0.470	0.462	0.452	0.498	0.453	0.483	0.463	5.24
66) TP 4-Methyl-2-pen...		0.039	0.045	0.046	0.047	0.049	0.049	0.049	0.046	7.81
67) TP Tetrachloroethene		0.168	0.203	0.212	0.209	0.236	0.219	0.236	0.212	10.95
69) TP trans-1,3-Dich...		0.196	0.206	0.227	0.246	0.276	0.258	0.270	0.240#	12.98
71) TP Ethyl methacry...		0.175	0.170	0.178	0.176	0.187	0.178	0.181	0.178	2.96
72) TP 1,1,2-Trichlor...		0.111	0.113	0.121	0.125	0.138	0.129	0.134	0.124#	8.19
73) TP Chlorodibromom...		0.157	0.164	0.189	0.200	0.232	0.218	0.230	0.199#	15.22
74) TP 1,3-Dichloropr...		0.213	0.231	0.243	0.248	0.272	0.255	0.262	0.246	7.98
75) TP 1,2-Dibromoethane		0.125	0.143	0.148	0.154	0.171	0.163	0.168	0.153#	10.45
77) TP 2-Hexanone		0.108	0.093	0.087	0.087	0.089	0.086	0.085	0.091	8.88
78) T Chlorobenzene		0.509	0.541	0.541	0.527	0.581	0.530	0.561	0.542	4.38
79) TC Ethylbenzene		0.801	0.886	0.917	0.892	0.973	0.877	0.915	0.894	5.81

Response Factor Report VOA130

Method Path : K:\VOA130\2023\230713NICAL\
 Method File : V130_230713N_8260D.m
 Title : VOLATILES BY GC/MS
 Last Update : Fri Jul 14 09:22:26 2023
 Response Via : Initial Calibration

Calibration Files

L11 =V30230713N03.D L1 =V30230713N05.D L2 =V30230713N07.D L3 =V30230713N09.D L4 =V30230713N10.D
 L6 =V30230713N11.D L8 =V30230713N12.D L10 =V30230713N13.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
80) T 1,1,1,2-Tetrac...	0.149	0.176	0.190	0.201	0.234	0.215	0.230	0.199	15.31	
81) TP p/m Xylene	0.307	0.361	0.379	0.375	0.408	0.367	0.388	0.369	8.50	
82) TP o Xylene	0.317	0.349	0.370	0.366	0.402	0.363	0.384	0.365	7.41	
83) TP Styrene	0.478	0.548	0.602	0.612	0.674	0.603	0.625	0.592	10.55	
84) I 1,4-Dichlorobenzene-d4	-----ISTD-----									
85) TP Bromoform	0.165	0.177	0.185	0.199	0.232	0.219	0.235	0.202	13.60	
87) TP Isopropylbenzene	1.338	1.583	1.565	1.484	1.645	1.457	1.530	1.515	6.59	
88) S 4-Bromofluorob...	0.866	0.860	0.847	0.799	0.767	0.760	0.745	0.741	6.59	
89) TP Bromobenzene	0.419	0.441	0.414	0.395	0.440	0.399	0.424	0.419	4.32	
90) TP n-Propylbenzene	1.521	1.760	1.794	1.723	1.914	1.703	1.756	1.739	6.78	
91) TP 1,4-Dichlorobu...	0.428	0.426	0.393	0.376	0.400	0.372	0.381	0.397	5.77	
92) TP 1,1,2,2-Tetrac...	0.273	0.271	0.252	0.250	0.269	0.250	0.271	0.262	4.13	
93) TP 4-Ethyltoluene	1.241	1.458	1.533	1.495	1.687	1.501	1.562	1.497	8.99	
94) TP 2-Chlorotoluene	0.998	1.128	1.090	1.027	1.135	1.009	1.066	1.064	5.22	
95) TP 1,3,5-Trimethy...	1.011	1.161	1.238	1.244	1.439	1.301	1.375	1.252	11.25	
96) TP 1,2,3-Trichlor...	0.257	0.239	0.226	0.214	0.225	0.211	0.218	0.227	7.02	
97) TP trans-1,4-Dich...	0.077	0.092	0.085	0.084	0.088	0.081	0.084	0.085	5.58	
98) TP 4-Chlorotoluene	1.004	1.114	1.115	1.070	1.179	1.055	1.106	1.092	5.07	
99) TP tert-Butylbenzene	0.938	1.129	1.168	1.127	1.261	1.125	1.183	1.133	8.72	
102) TP 1,2,4-Trimethy...	1.014	1.125	1.195	1.208	1.421	1.285	1.357	1.229	11.26	
103) TP sec-Butylbenzene	1.263	1.549	1.638	1.589	1.784	1.597	1.644	1.581	10.03	
104) TP p-Isopropyltol...	1.020	1.297	1.402	1.409	1.621	1.464	1.513	1.390	13.78	
105) TP 1,3-Dichlorobe...	0.756	0.794	0.813	0.792	0.891	0.802	0.839	0.813	5.26	
106) TP 1,4-Dichlorobe...	0.732	0.814	0.817	0.792	0.893	0.805	0.846	0.814	6.04	
107) TP p-Diethylbenzene	0.596	0.709	0.785	0.807	0.965	0.878	0.930	0.810	15.89	
108) TP n-Butylbenzene	0.803	0.979	1.081	1.103	1.292	1.164	1.205	1.090	14.73	
109) TP 1,2-Dichlorobe...	0.716	0.757	0.774	0.753	0.849	0.765	0.799	0.773	5.38	
110) TP 1,2,4,5-Tetram...	0.931	1.078	1.153	1.172	1.447	1.327	1.415	1.218	15.42	
111) TP 1,2-Dibromo-3-...	0.050	0.048	0.051	0.054	0.059	0.058	0.058	0.054	8.15	
112) TP 1,3,5-Trichlor...	0.423	0.471	0.496	0.517	0.634	0.583	0.622	0.535	14.88	
113) TP Hexachlorobuta...	0.133	0.162	0.175	0.181	0.217	0.202	0.215	0.184	16.51	

Response Factor Report VOA130

Method Path : K:\VOA130\2023\230713NICAL\
 Method File : V130_230713N_8260D.m
 Title : VOLATILES BY GC/MS
 Last Update : Fri Jul 14 09:22:26 2023
 Response Via : Initial Calibration

Calibration Files

L11 =V30230713N03.D L1 =V30230713N05.D L2 =V30230713N07.D L3 =V30230713N09.D L4 =V30230713N10.D
 L6 =V30230713N11.D L8 =V30230713N12.D L10 =V30230713N13.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
114) TP 1,2,4-Trichlor...	0.424	0.440	0.449	0.453	0.543	0.498	0.530	0.477	9.84	
115) TP Naphthalene	1.078	1.065	1.059	1.047	1.159	1.085	1.103	1.085	3.45	
116) TP 1,2,3-Trichlor...	0.398	0.437	0.435	0.439	0.506	0.466	0.494	0.453	8.27	

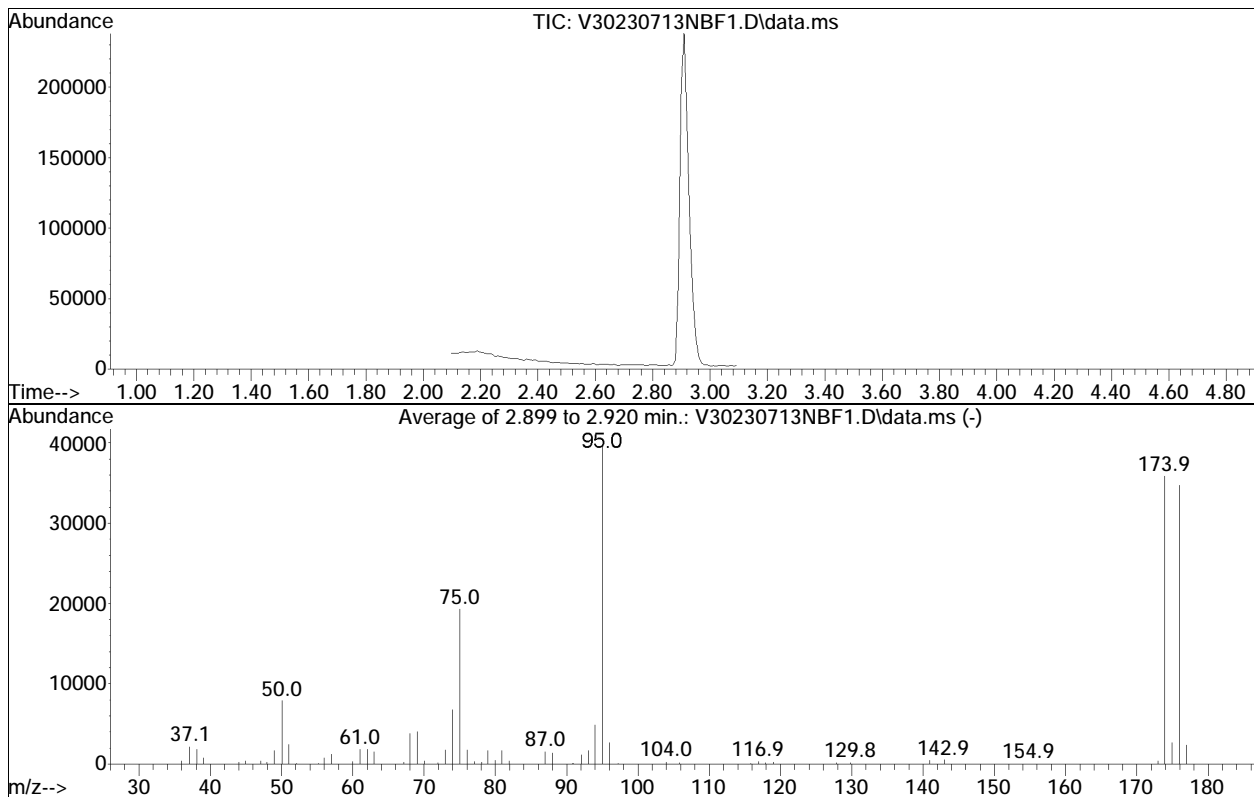
(#) = Out of Range

BFB

Data Path : K:\VOA130\2023\230713NICAL\
Data File : V30230713NBF1.D
Acq On : 13 Jul 2023 05:40 pm
Operator : VOA130:TMS
Sample : WG1803303-1
Misc : WG1803303
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Fri Jul 14 09:22:26 2023



AutoFind: Scans 80, 81, 82; Background Corrected with Scan 75

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.8	7896	PASS
75	95	30	60	48.6	19345	PASS
95	95	100	100	100.0	39797	PASS
96	95	5	9	6.7	2662	PASS
173	174	0.00	2	1.0	359	PASS
174	95	50	100	90.2	35915	PASS
175	174	5	9	7.4	2671	PASS
176	174	95	101	96.8	34757	PASS
177	176	5	9	6.7	2337	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N03.D
 Acq On : 13 Jul 2023 06:46 pm
 Operator : VOA130:PID
 Sample : I8260STD0.19PPB
 Misc : WG1803303,ICAL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 09:11:02 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.142	96	337912	10.000	ug/L	# 0.00
Standard Area 1 = 352413			Recovery = 95.89%			
63) Chlorobenzene-d5	9.702	117	307727	10.000	ug/L	# 0.00
Standard Area 1 = 306855			Recovery = 100.28%			
84) 1,4-Dichlorobenzene-d4	12.376	152	167000	10.000	ug/L	0.00
Standard Area 1 = 183999			Recovery = 90.76%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.318	113	110431	10.706	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.06%			
47) 1,2-Dichloroethane-d4	5.848	65	108506	10.468	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.68%			
64) Toluene-d8	7.846	98	372155	10.132	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.32%			
88) 4-Bromofluorobenzene	11.180	95	144579	10.846	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.46%			
Target Compounds						
						Qvalue
4) Vinyl chloride	1.958	62	1556	0.221	ug/L	# 80
37) Carbon tetrachloride	5.287	117	1307	0.158	ug/L	# 83
45) Benzene	5.722	78	3668	0.182	ug/L	# 84
52) Trichloroethene	6.320	95	1193	0.192	ug/L	# 89

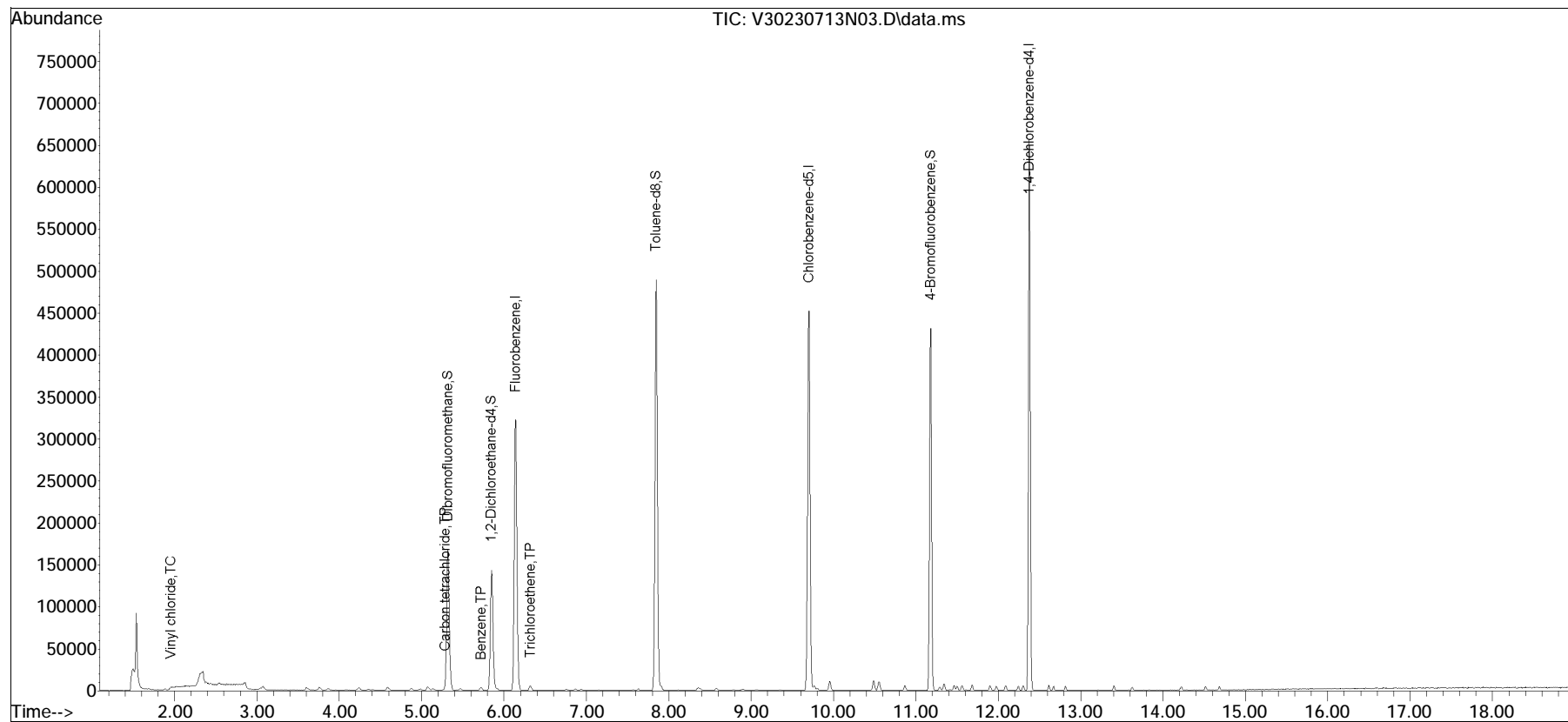
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
Data File : V30230713N03.D
Acq On : 13 Jul 2023 06:46 pm
Operator : VOA130:PID
Sample : I8260STD0.19PPB
Misc : WG1803303,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 09:11:02 2023
Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 14 09:10:37 2023
Response via : Initial Calibration

Sub List : 8260-L11 - Level 11 for 8260-LRR productN09.D•



Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N03.D Operator : VOA130:PID
Date Inj'd : 7/13/2023 6:46 pm Instrument : VOA130
Sample : I8260STD0.19PPB Quant Date : 7/14/2023 9:10 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N05.D
 Acq On : 13 Jul 2023 07:31 pm
 Operator : VOA130:PID
 Sample : I8260STD0.5PPB
 Misc : WG1803303,ICAL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 14 09:11:13 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.142	96	330695	10.000	ug/L	# 0.00
Standard Area 1 = 352413			Recovery =	93.84%		
63) Chlorobenzene-d5	9.702	117	301571	10.000	ug/L	# 0.00
Standard Area 1 = 306855			Recovery =	98.28%		
84) 1,4-Dichlorobenzene-d4	12.381	152	163833	10.000	ug/L	0.00
Standard Area 1 = 183999			Recovery =	89.04%		
System Monitoring Compounds						
39) Dibromofluoromethane	5.318	113	107578	10.657	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.57%		
47) 1,2-Dichloroethane-d4	5.848	65	107141	10.562	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.62%		
64) Toluene-d8	7.846	98	361461	10.042	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.42%		
88) 4-Bromofluorobenzene	11.175	95	140969	10.780	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.80%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.685	85	2973	0.436	ug/L	# 90
3) Chloromethane	1.879	50	3248	0.521	ug/L	# 95
4) Vinyl chloride	1.958	62	3170	0.460	ug/L	99
5) Bromomethane	2.277	94	2011	0.479	ug/L	94
6) Chloroethane	2.393	64	2182	0.501	ug/L	99
7) Trichlorofluoromethane	2.539	101	4318	0.441	ug/L	90
8) Ethyl ether	2.854	74	1455	0.500	ug/L	# 66
10) 1,1-Dichloroethene	3.038	96	2228	0.451	ug/L	# 67
11) Carbon disulfide	3.069	76	7343	0.553	ug/L	99
12) Freon-113	3.080	101	2179	0.414	ug/L	# 82
14) Acrolein	3.352	56	404	0.568	ug/L	98
15) Methylene chloride	3.604	84	3253	0.576	ug/L	81
17) Acetone	3.646	43	1902	1.159	ug/L	# 69
18) trans-1,2-Dichloroethene	3.766	96	2838	0.514	ug/L	75
19) Methyl acetate	3.772	43	2417	0.725	ug/L	# 78
21) Methyl tert-butyl ether	3.866	73	6024	0.470	ug/L	# 91
22) tert-Butyl alcohol	3.945	59	1050	2.738	ug/L	# 81
24) Diisopropyl ether	4.233	45	7350	0.466	ug/L	# 86
25) 1,1-Dichloroethane	4.354	63	4836	0.486	ug/L	97
26) Halothane	4.401	117	1849	0.422	ug/L	# 80
27) Acrylonitrile	4.385	53	691	0.484	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N05.D
 Acq On : 13 Jul 2023 07:31 pm
 Operator : VOA130:PID
 Sample : I8260STD0.5PPB
 Misc : WG1803303,ICAL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 14 09:11:13 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Ethyl tert-butyl ether	4.584	59	6662	0.450	ug/L	81
29) Vinyl acetate	0.000		0	N.D.	d	
30) cis-1,2-Dichloroethene	4.867	96	3190	0.504	ug/L #	79
31) 2,2-Dichloropropane	4.978	77	3419	0.453	ug/L	95
33) Bromochloromethane	5.072	128	1645	0.504	ug/L #	58
34) Cyclohexane	5.072	56	3477	0.393	ug/L	85
35) Chloroform	5.140	83	4970	0.495	ug/L	94
36) Ethyl acetate	5.266	43	2538	0.631	ug/L #	77
37) Carbon tetrachloride	5.282	117	3167	0.392	ug/L	91
38) Tetrahydrofuran	5.303	42	651M6	0.546	ug/L	
40) 1,1,1-Trichloroethane	5.350	97	3950	0.443	ug/L #	89
42) 2-Butanone	0.000		0	N.D.	d	
43) 1,1-Dichloropropene	5.470	75	2725	0.404	ug/L	92
45) Benzene	5.722	78	9297	0.472	ug/L	96
46) tert-Amyl methyl ether	5.843	73	5948	0.469	ug/L	93
48) 1,2-Dichloroethane	5.916	62	4111	0.557	ug/L #	90
51) Methyl cyclohexane	6.315	83	3186	0.385	ug/L	86
52) Trichloroethene	6.315	95	2604	0.429	ug/L	91
54) Dibromomethane	6.760	93	1746	0.508	ug/L #	86
55) 1,2-Dichloropropane	6.870	63	2303	0.445	ug/L #	94
57) 2-Chloroethyl vinyl ether	7.568	63	1266	0.457	ug/L #	93
58) Bromodichloromethane	6.938	83	3338	0.450	ug/L	96
61) 1,4-Dioxane	7.148	88	4288	105.048	ug/L	95
62) cis-1,3-Dichloropropene	7.636	75	3343	0.428	ug/L	98
65) Toluene	7.914	92	6371	0.456	ug/L	99
66) 4-Methyl-2-pentanone	8.344	58	587	0.422	ug/L #	78
67) Tetrachloroethene	8.359	166	2535	0.396	ug/L	92
69) trans-1,3-Dichloropropene	8.380	75	2948	0.408	ug/L	95
71) Ethyl methacrylate	8.574	69	2639	0.492	ug/L #	89
72) 1,1,2-Trichloroethane	8.569	83	1678	0.447	ug/L	91
73) Chlorodibromomethane	8.779	129	2366	0.395	ug/L #	90
74) 1,3-Dichloropropane	8.899	76	3217	0.433	ug/L	98
75) 1,2-Dibromoethane	9.067	107	1892	0.409	ug/L	98
77) 2-Hexanone	9.361	43	1629	0.594	ug/L #	77
78) Chlorobenzene	9.723	112	7670	0.470	ug/L #	77
79) Ethylbenzene	9.765	91	12076	0.448	ug/L	95
80) 1,1,1,2-Tetrachloroethane	9.806	131	2241	0.373	ug/L #	59
81) p/m Xylene	9.959	106	9269	0.832	ug/L	88
82) o Xylene	10.488	106	9552	0.869	ug/L	84
83) Styrene	10.551	104	14414	0.808	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N05.D
 Acq On : 13 Jul 2023 07:31 pm
 Operator : VOA130:PID
 Sample : I8260STD0.5PPB
 Misc : WG1803303,ICAL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 14 09:11:13 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
85) Bromoform	10.567	173	1353	0.409	ug/L	98
87) Isopropylbenzene	10.866	105	10961	0.442	ug/L	91
89) Bromobenzene	11.290	156	3434	0.501	ug/L	99
90) n-Propylbenzene	11.337	91	12460	0.437	ug/L #	88
91) 1,4-Dichlorobutane	11.348	55	3505	0.540	ug/L #	91
92) 1,1,2,2-Tetrachloroethane	11.411	83	2234	0.520	ug/L	99
93) 4-Ethyltoluene	11.463	105	10164	0.415	ug/L	93
94) 2-Chlorotoluene	11.505	91	8175M6	0.469	ug/L	
95) 1,3,5-Trimethylbenzene	11.563	105	8280	0.404	ug/L	96
96) 1,2,3-Trichloropropane	11.552	75	2105	0.565	ug/L	92
97) trans-1,4-Dichloro-2-b...	11.605	53	631	0.456	ug/L #	83
98) 4-Chlorotoluene	11.683	91	8225	0.460	ug/L #	87
99) tert-Butylbenzene	11.898	119	7681	0.414	ug/L	88
102) 1,2,4-Trimethylbenzene	11.977	105	8305	0.412	ug/L	99
103) sec-Butylbenzene	12.087	105	10346	0.400	ug/L	91
104) p-Isopropyltoluene	12.245	119	8358	0.367	ug/L	96
105) 1,3-Dichlorobenzene	12.302	146	6194	0.465	ug/L	95
106) 1,4-Dichlorobenzene	12.397	146	5995M3	0.449	ug/L	
107) p-Diethylbenzene	12.612	119	4886	0.368	ug/L	95
108) n-Butylbenzene	12.674	91	6574	0.368	ug/L #	91
109) 1,2-Dichlorobenzene	12.816	146	5867	0.463	ug/L	97
110) 1,2,4,5-Tetramethylben...	13.403	119	7624	0.382	ug/L	93
111) 1,2-Dibromo-3-chloropr...	13.592	155	406	0.460	ug/L	92
112) 1,3,5-Trichlorobenzene	13.629	180	3468	0.396	ug/L	96
113) Hexachlorobutadiene	14.200	225	1092	0.363	ug/L	91
114) 1,2,4-Trichlorobenzene	14.226	180	3476	0.445	ug/L	97
115) Naphthalene	14.515	128	8828	0.497	ug/L	100
116) 1,2,3-Trichlorobenzene	14.683	180	3257	0.438	ug/L	96

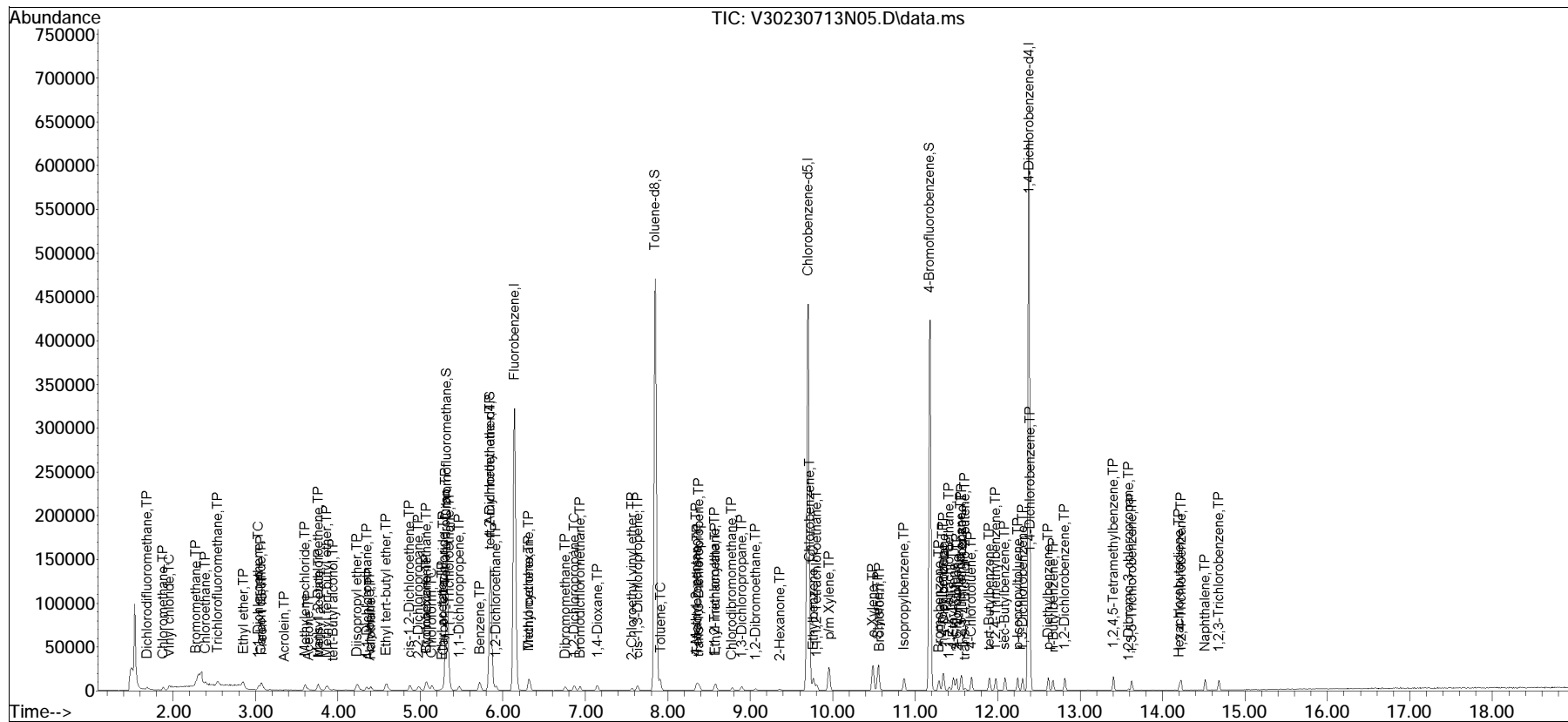
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N05.D
 Acq On : 13 Jul 2023 07:31 pm
 Operator : VOA130:PID
 Sample : I8260STD0.5PPB
 Misc : WG1803303,ICAL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 14 09:11:13 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

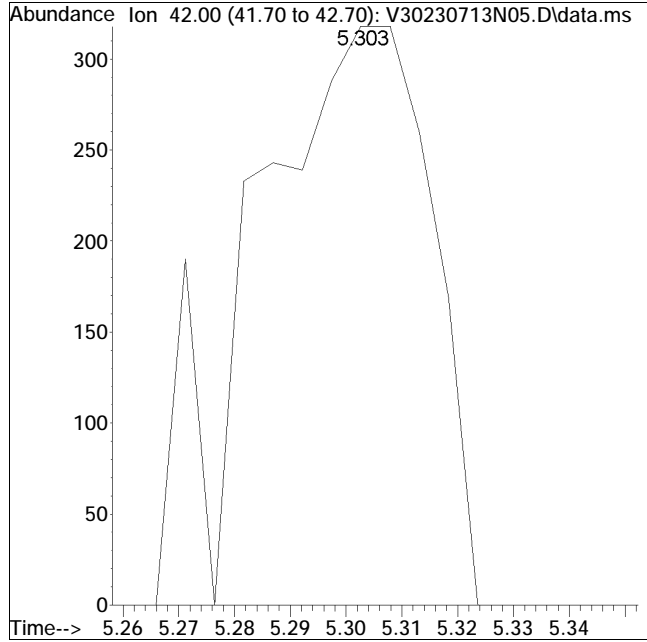
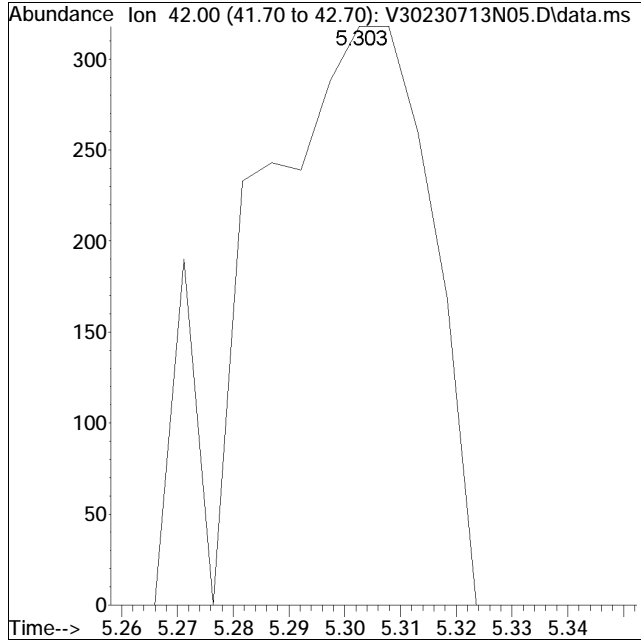
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N05.D Operator : VOA130:PID
Date Inj'd : 7/13/2023 7:31 pm Instrument : VOA130
Sample : I8260STD0.5PPB Quant Date : 7/14/2023 9:11 am

Compound #38: Tetrahydrofuran



Original Peak Response = 710

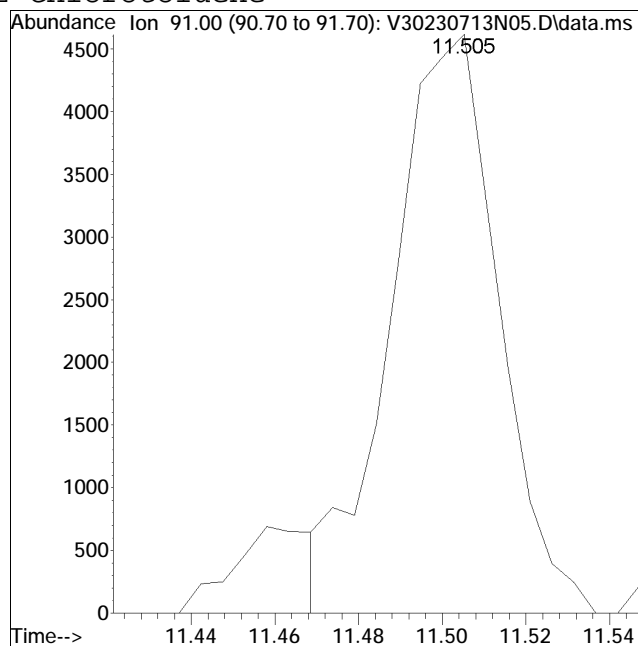
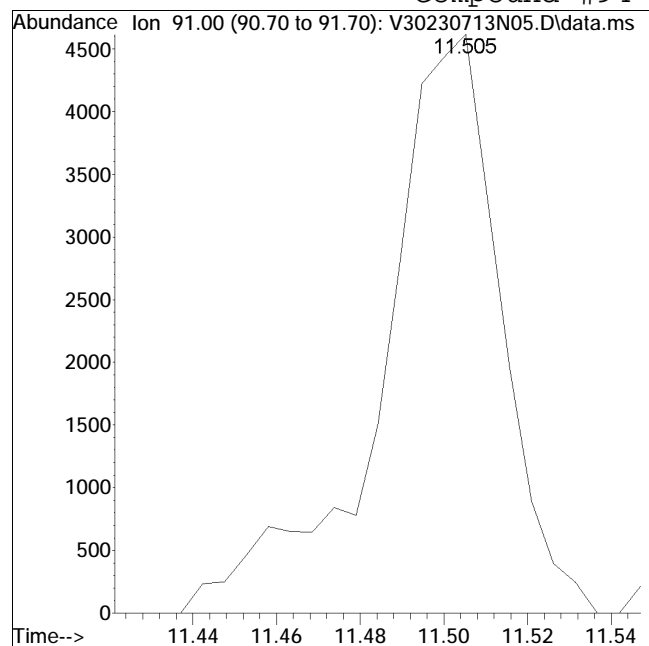
Manual Peak Response = 651 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N05.D Operator : VOA130:PID
Date Inj'd : 7/13/2023 7:31 pm Instrument : VOA130
Sample : I8260STD0.5PPB Quant Date : 7/14/2023 9:11 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 9097

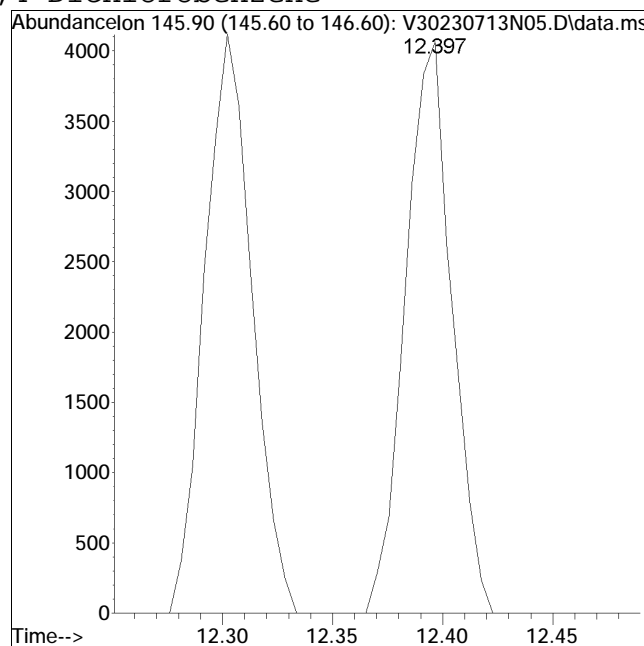
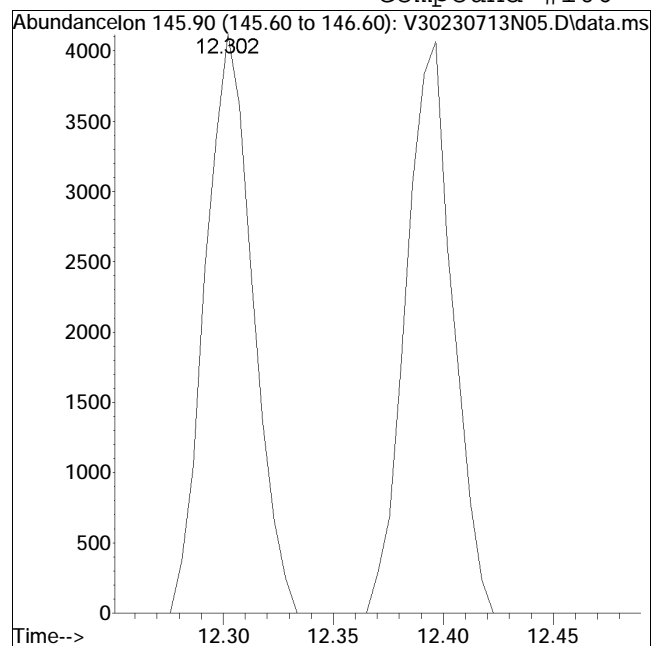
Manual Peak Response = 8175 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N05.D Operator : VOA130:PID
Date Inj'd : 7/13/2023 7:31 pm Instrument : VOA130
Sample : I8260STD0.5PPB Quant Date : 7/14/2023 9:11 am

Compound #106: 1,4-Dichlorobenzene



Original Peak Response = 6194

Manual Peak Response = 5995 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N07.D
 Acq On : 13 Jul 2023 08:15 pm
 Operator : VOA130:PID
 Sample : I8260STD2.0PPB
 Misc : WG1803303,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 14 09:11:22 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.141	96	333651	10.000	ug/L	# 0.00
Standard Area 1 = 352413			Recovery =	94.68%		
63) Chlorobenzene-d5	9.701	117	301684	10.000	ug/L	# 0.00
Standard Area 1 = 306855			Recovery =	98.31%		
84) 1,4-Dichlorobenzene-d4	12.381	152	168971	10.000	ug/L	0.00
Standard Area 1 = 183999			Recovery =	91.83%		
System Monitoring Compounds						
39) Dibromofluoromethane	5.318	113	108064	10.610	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.10%		
47) 1,2-Dichloroethane-d4	5.848	65	108342	10.586	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.86%		
64) Toluene-d8	7.845	98	365733	10.157	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.57%		
88) 4-Bromofluorobenzene	11.175	95	143200	10.617	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.17%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.685	85	15243	2.214	ug/L	97
3) Chloromethane	1.879	50	13702	2.179	ug/L	99
4) Vinyl chloride	1.952	62	15077	2.167	ug/L	99
5) Bromomethane	2.277	94	8361	1.975	ug/L	96
6) Chloroethane	2.393	64	9648	2.197	ug/L	96
7) Trichlorofluoromethane	2.545	101	21862	2.214	ug/L	97
8) Ethyl ether	2.849	74	6383	2.175	ug/L #	91
10) 1,1-Dichloroethene	3.043	96	10895	2.187	ug/L #	69
11) Carbon disulfide	3.069	76	29039	2.168	ug/L	98
12) Freon-113	3.090	101	11380	2.143	ug/L #	77
14) Acrolein	3.368	56	1458	2.032	ug/L #	77
15) Methylene chloride	3.604	84	12031	2.112	ug/L	87
17) Acetone	3.646	43	3457	2.088	ug/L	98
18) trans-1,2-Dichloroethene	3.761	96	11723	2.104	ug/L	77
19) Methyl acetate	3.772	43	7604	2.262	ug/L	99
21) Methyl tert-butyl ether	3.866	73	24170	1.868	ug/L	99
22) tert-Butyl alcohol	3.950	59	4112	10.626	ug/L	93
24) Diisopropyl ether	4.233	45	31242	1.964	ug/L	94
25) 1,1-Dichloroethane	4.354	63	21946	2.185	ug/L #	97
26) Halothane	4.406	117	9062	2.048	ug/L	98
27) Acrylonitrile	4.395	53	3145	2.185	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N07.D
 Acq On : 13 Jul 2023 08:15 pm
 Operator : VOA130:PID
 Sample : I8260STD2.0PPB
 Misc : WG1803303,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 14 09:11:22 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Ethyl tert-butyl ether	4.589	59	28177	1.887	ug/L #	75
29) Vinyl acetate	4.589	43	13446	2.068	ug/L	98
30) cis-1,2-Dichloroethene	4.873	96	13448	2.105	ug/L #	80
31) 2,2-Dichloropropane	4.977	77	16378	2.149	ug/L	91
33) Bromochloromethane	5.067	128	6983	2.120	ug/L #	57
34) Cyclohexane	5.082	56	18285	2.047	ug/L	85
35) Chloroform	5.140	83	21830	2.154	ug/L	95
36) Ethyl acetate	5.255	43	8112	1.999	ug/L #	95
37) Carbon tetrachloride	5.287	117	17290	2.121	ug/L	98
38) Tetrahydrofuran	5.297	42	2562	2.130	ug/L	95
40) 1,1,1-Trichloroethane	5.344	97	18500	2.056	ug/L	92
42) 2-Butanone	5.434	43	4005	2.273	ug/L #	73
43) 1,1-Dichloropropene	5.470	75	13398	1.970	ug/L #	89
45) Benzene	5.722	78	39583	1.991	ug/L	98
46) tert-Amyl methyl ether	5.837	73	24628	1.923	ug/L	96
48) 1,2-Dichloroethane	5.916	62	15958	2.142	ug/L #	98
51) Methyl cyclohexane	6.320	83	16405	1.964	ug/L	87
52) Trichloroethene	6.320	95	11543	1.885	ug/L #	87
54) Dibromomethane	6.755	93	7497	2.160	ug/L #	88
55) 1,2-Dichloropropane	6.865	63	9943	1.906	ug/L	96
57) 2-Chloroethyl vinyl ether	7.568	63	5255	1.881	ug/L #	85
58) Bromodichloromethane	6.938	83	14434	1.928	ug/L #	93
61) 1,4-Dioxane	7.143	88	16854	409.232	ug/L	91
62) cis-1,3-Dichloropropene	7.630	75	14211	1.805	ug/L	91
65) Toluene	7.908	92	28358	2.031	ug/L	96
66) 4-Methyl-2-pentanone	8.344	58	2695	1.935	ug/L #	90
67) Tetrachloroethene	8.354	166	12276	1.919	ug/L	94
69) trans-1,3-Dichloropropene	8.385	75	12429	1.719	ug/L	95
71) Ethyl methacrylate	8.585	69	10272	1.913	ug/L #	81
72) 1,1,2-Trichloroethane	8.569	83	6797	1.811	ug/L	91
73) Chlorodibromomethane	8.784	129	9914	1.655	ug/L	96
74) 1,3-Dichloropropane	8.899	76	13947	1.876	ug/L	98
75) 1,2-Dibromoethane	9.062	107	8623	1.865	ug/L	97
77) 2-Hexanone	9.355	43	5635	2.056	ug/L	98
78) Chlorobenzene	9.722	112	32650	1.999	ug/L	95
79) Ethylbenzene	9.770	91	53452	1.981	ug/L	94
80) 1,1,1,2-Tetrachloroethane	9.806	131	10596	1.764	ug/L	96
81) p/m Xylene	9.953	106	43556	3.909	ug/L	86
82) o Xylene	10.488	106	42154	3.832	ug/L	90
83) Styrene	10.551	104	66131	3.704	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N07.D
 Acq On : 13 Jul 2023 08:15 pm
 Operator : VOA130:PID
 Sample : I8260STD2.0PPB
 Misc : WG1803303,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 14 09:11:22 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
85) Bromoform	10.572	173	5992	1.758	ug/L	100
87) Isopropylbenzene	10.865	105	53488	2.090	ug/L	96
89) Bromobenzene	11.285	156	14889	2.104	ug/L	94
90) n-Propylbenzene	11.337	91	59493	2.025	ug/L #	90
91) 1,4-Dichlorobutane	11.348	55	14387	2.147	ug/L	98
92) 1,1,2,2-Tetrachloroethane	11.411	83	9146	2.065	ug/L #	97
93) 4-Ethyltoluene	11.463	105	49264	1.948	ug/L	94
94) 2-Chlorotoluene	11.500	91	38111M6	2.119	ug/L	
95) 1,3,5-Trimethylbenzene	11.563	105	39222	1.853	ug/L	94
96) 1,2,3-Trichloropropane	11.552	75	8064	2.100	ug/L #	79
97) trans-1,4-Dichloro-2-b...	11.605	53	3105	2.175	ug/L	88
98) 4-Chlorotoluene	11.683	91	37651	2.040	ug/L #	86
99) tert-Butylbenzene	11.904	119	38154	1.993	ug/L	90
102) 1,2,4-Trimethylbenzene	11.977	105	38013	1.830	ug/L	95
103) sec-Butylbenzene	12.092	105	52341	1.960	ug/L	91
104) p-Isopropyltoluene	12.244	119	43827	1.867	ug/L	94
105) 1,3-Dichlorobenzene	12.302	146	26821	1.953	ug/L	96
106) 1,4-Dichlorobenzene	12.391	146	27523	2.001	ug/L	98
107) p-Diethylbenzene	12.611	119	23952	1.750	ug/L	93
108) n-Butylbenzene	12.669	91	33093	1.798	ug/L #	96
109) 1,2-Dichlorobenzene	12.816	146	25573	1.957	ug/L	95
110) 1,2,4,5-Tetramethylben...	13.403	119	36440	1.771	ug/L	94
111) 1,2-Dibromo-3-chloropr...	13.592	155	1622	1.780	ug/L	98
112) 1,3,5-Trichlorobenzene	13.629	180	15916	1.761	ug/L	95
113) Hexachlorobutadiene	14.205	225	5466	1.762	ug/L	98
114) 1,2,4-Trichlorobenzene	14.226	180	14877	1.846	ug/L	99
115) Naphthalene	14.515	128	35985	1.963	ug/L	100
116) 1,2,3-Trichlorobenzene	14.682	180	14779	1.929	ug/L	97

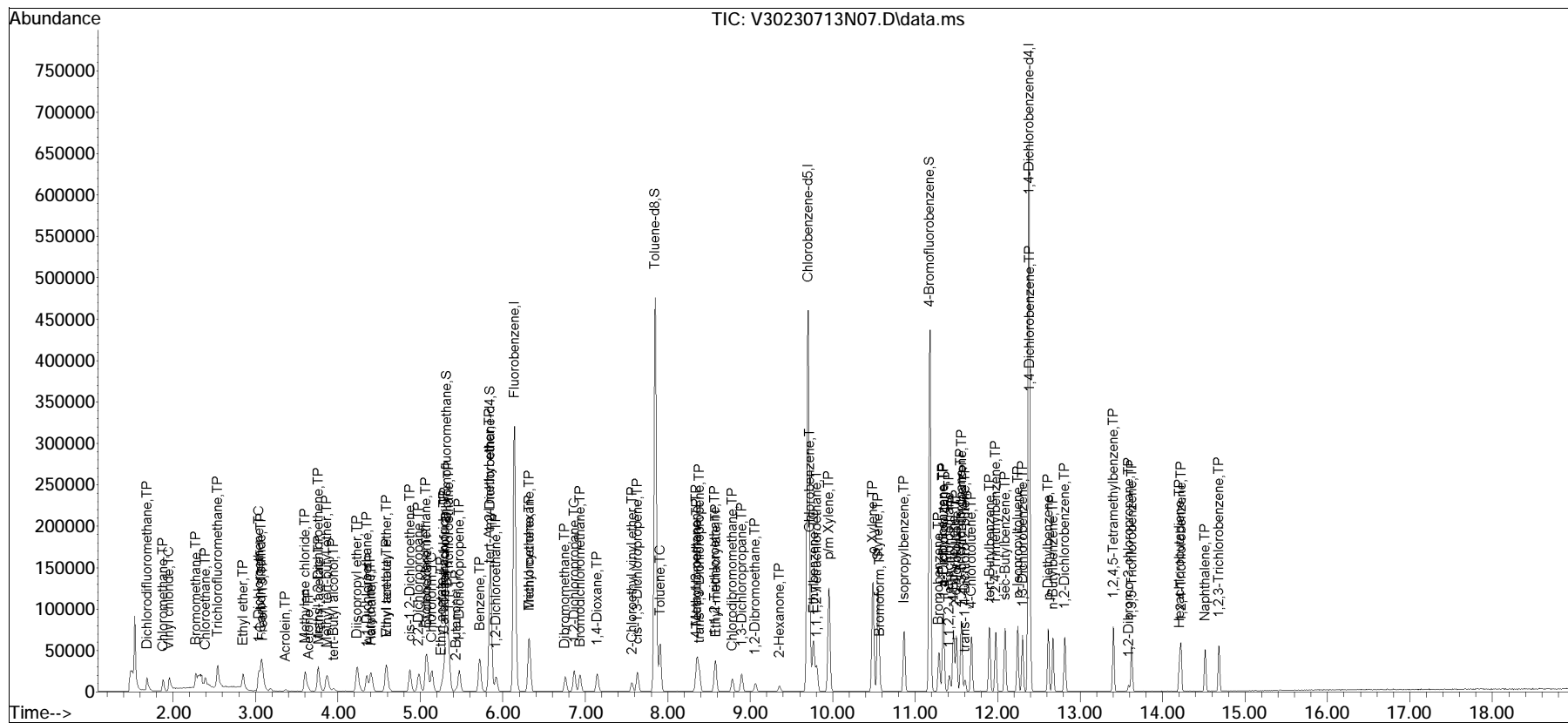
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N07.D
 Acq On : 13 Jul 2023 08:15 pm
 Operator : VOA130:PID
 Sample : I8260STD2.0PPB
 Misc : WG1803303,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 14 09:11:22 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

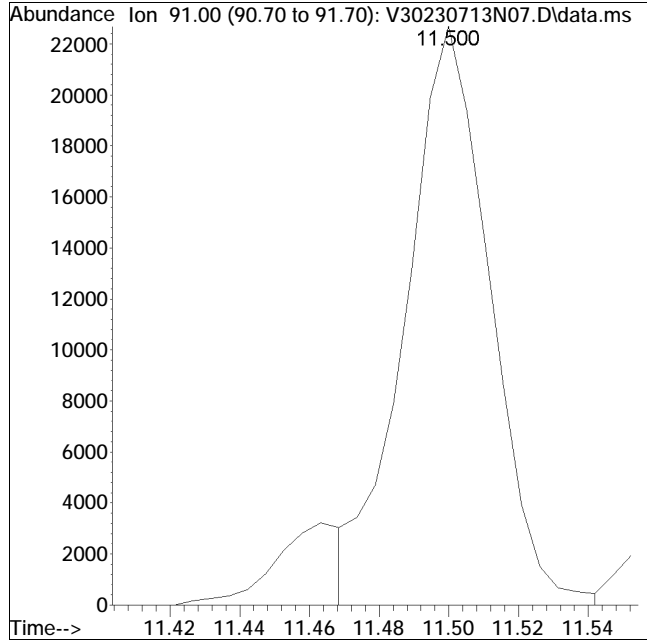
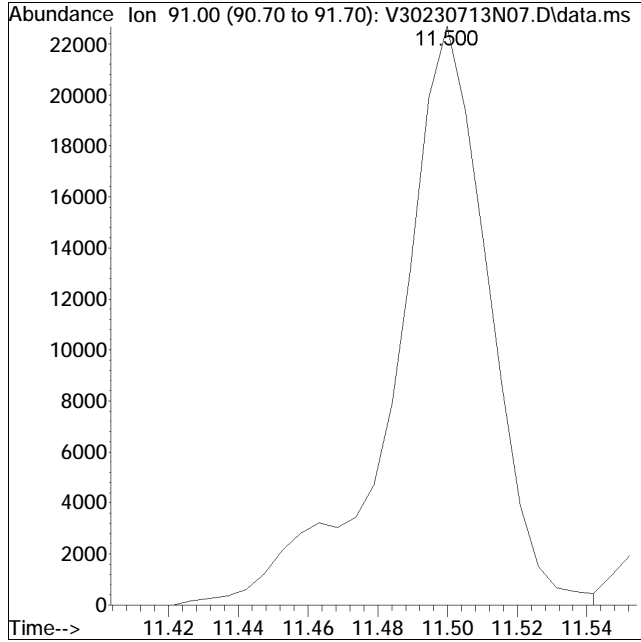
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N07.D Operator : VOA130:PID
Date Inj'd : 7/13/2023 8:15 pm Instrument : VOA130
Sample : I8260STD2.0PPB Quant Date : 7/14/2023 9:11 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 42470

Manual Peak Response = 38111 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N09.D
 Acq On : 13 Jul 2023 08:59 pm
 Operator : VOA130:PID
 Sample : I8260STD10PPB
 Misc : WG1803303,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 09:11:31 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.142	96	352413	10.000	ug/L	0.00
Standard Area 1 = 352413			Recovery = 100.00%			
63) Chlorobenzene-d5	9.702	117	306855	10.000	ug/L	# 0.00
Standard Area 1 = 306855			Recovery = 100.00%			
84) 1,4-Dichlorobenzene-d4	12.381	152	183999	10.000	ug/L	0.00
Standard Area 1 = 183999			Recovery = 100.00%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.318	113	109927	10.218	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.18%			
47) 1,2-Dichloroethane-d4	5.848	65	110099	10.185	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.85%			
64) Toluene-d8	7.846	98	369910	10.100	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.00%			
88) 4-Bromofluorobenzene	11.180	95	147033	10.011	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.11%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.685	85	76990	10.589	ug/L	96
3) Chloromethane	1.879	50	68837	10.366	ug/L	98
4) Vinyl chloride	1.958	62	76568	10.419	ug/L	98
5) Bromomethane	2.277	94	44257	9.896	ug/L	96
6) Chloroethane	2.393	64	48883	10.538	ug/L	99
7) Trichlorofluoromethane	2.545	101	111984	10.737	ug/L	98
8) Ethyl ether	2.849	74	31472	10.153	ug/L	93
10) 1,1-Dichloroethene	3.043	96	53787	10.224	ug/L	# 73
11) Carbon disulfide	3.069	76	140744	9.950	ug/L	99
12) Freon-113	3.090	101	59642	10.633	ug/L	# 80
14) Acrolein	3.357	56	7311	9.648	ug/L	100
15) Methylene chloride	3.604	84	60645	10.079	ug/L	85
17) Acetone	3.646	43	14628	8.364	ug/L	95
18) trans-1,2-Dichloroethene	3.761	96	60078	10.207	ug/L	78
19) Methyl acetate	3.766	43	32406	9.126	ug/L	# 88
21) Methyl tert-butyl ether	3.866	73	133647	9.777	ug/L	94
22) tert-Butyl alcohol	3.945	59	19947	48.801	ug/L	# 85
24) Diisopropyl ether	4.233	45	162866	9.693	ug/L	94
25) 1,1-Dichloroethane	4.348	63	109952	10.364	ug/L	# 98
26) Halothane	4.406	117	48534	10.382	ug/L	97
27) Acrylonitrile	4.390	53	16184	10.646	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N09.D
 Acq On : 13 Jul 2023 08:59 pm
 Operator : VOA130:PID
 Sample : I8260STD10PPB
 Misc : WG1803303,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 09:11:31 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Ethyl tert-butyl ether	4.584	59	151873	9.630	ug/L #	69
29) Vinyl acetate	4.590	43	58384	8.501	ug/L	98
30) cis-1,2-Dichloroethene	4.873	96	68998	10.225	ug/L #	79
31) 2,2-Dichloropropane	4.983	77	80217	9.965	ug/L	87
33) Bromochloromethane	5.067	128	35759	10.280	ug/L #	55
34) Cyclohexane	5.082	56	98412	10.429	ug/L	84
35) Chloroform	5.140	83	112356	10.498	ug/L	96
36) Ethyl acetate	5.250	43	40460	9.440	ug/L #	96
37) Carbon tetrachloride	5.282	117	90606	10.525	ug/L	98
38) Tetrahydrofuran	5.292	42	13078M6	10.294	ug/L	
40) 1,1,1-Trichloroethane	5.350	97	100436	10.568	ug/L	92
42) 2-Butanone	5.434	43	18816	10.109	ug/L	100
43) 1,1-Dichloropropene	5.470	75	72191	10.051	ug/L	89
45) Benzene	5.717	78	210820	10.042	ug/L	98
46) tert-Amyl methyl ether	5.838	73	129721	9.590	ug/L	95
48) 1,2-Dichloroethane	5.921	62	79682	10.126	ug/L #	98
51) Methyl cyclohexane	6.320	83	87485	9.916	ug/L	86
52) Trichloroethene	6.320	95	65922	10.194	ug/L #	87
54) Dibromomethane	6.760	93	36731	10.020	ug/L #	86
55) 1,2-Dichloropropane	6.865	63	55408	10.055	ug/L	95
57) 2-Chloroethyl vinyl ether	7.562	63	27847	9.436	ug/L #	85
58) Bromodichloromethane	6.933	83	80399	10.169	ug/L #	98
61) 1,4-Dioxane	7.143	88	22037	506.594	ug/L	91
62) cis-1,3-Dichloropropene	7.636	75	80411	9.668	ug/L	90
65) Toluene	7.909	92	141684	9.975	ug/L	100
66) 4-Methyl-2-pentanone	8.338	58	14188	10.016	ug/L #	82
67) Tetrachloroethene	8.359	166	64943	9.982	ug/L	94
69) trans-1,3-Dichloropropene	8.380	75	69649	9.472	ug/L	89
71) Ethyl methacrylate	8.580	69	54762	10.025	ug/L #	78
72) 1,1,2-Trichloroethane	8.569	83	37094	9.715	ug/L	91
73) Chlorodibromomethane	8.784	129	57843	9.492	ug/L	98
74) 1,3-Dichloropropane	8.899	76	74692	9.876	ug/L	99
75) 1,2-Dibromoethane	9.062	107	45482	9.673	ug/L	98
77) 2-Hexanone	9.350	43	26742	9.591	ug/L	95
78) Chlorobenzene	9.723	112	166116	9.997	ug/L	90
79) Ethylbenzene	9.765	91	281409	10.255	ug/L	94
80) 1,1,1,2-Tetrachloroethane	9.807	131	58284	9.540	ug/L	97
81) p/m Xylene	9.953	106	232293	20.494	ug/L	87
82) o Xylene	10.488	106	227203	20.305	ug/L	89
83) Styrene	10.551	104	369665	20.358	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N09.D
 Acq On : 13 Jul 2023 08:59 pm
 Operator : VOA130:PID
 Sample : I8260STD10PPB
 Misc : WG1803303,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 09:11:31 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
85) Bromoform	10.567	173	33991	9.159	ug/L	99
87) Isopropylbenzene	10.866	105	287876	10.330	ug/L	94
89) Bromobenzene	11.290	156	76263	9.898	ug/L	99
90) n-Propylbenzene	11.338	91	330060	10.317	ug/L #	91
91) 1,4-Dichlorobutane	11.348	55	72403	9.924	ug/L	95
92) 1,1,2,2-Tetrachloroethane	11.416	83	46367	9.613	ug/L #	98
93) 4-Ethyltoluene	11.463	105	282028	10.242	ug/L	95
94) 2-Chlorotoluene	11.500	91	200508M6	10.237	ug/L	
95) 1,3,5-Trimethylbenzene	11.563	105	227757	9.883	ug/L	94
96) 1,2,3-Trichloropropane	11.552	75	41628	9.957	ug/L #	76
97) trans-1,4-Dichloro-2-b...	11.605	53	15578	10.019	ug/L #	90
98) 4-Chlorotoluene	11.684	91	205204	10.213	ug/L #	85
99) tert-Butylbenzene	11.899	119	214966	10.312	ug/L	89
102) 1,2,4-Trimethylbenzene	11.977	105	219819	9.719	ug/L	94
103) sec-Butylbenzene	12.087	105	301372	10.363	ug/L	90
104) p-Isopropyltoluene	12.245	119	258036	10.092	ug/L	94
105) 1,3-Dichlorobenzene	12.302	146	149683	10.012	ug/L	96
106) 1,4-Dichlorobenzene	12.391	146	150347	10.036	ug/L	96
107) p-Diethylbenzene	12.612	119	144428	9.691	ug/L	93
108) n-Butylbenzene	12.669	91	198819	9.917	ug/L #	95
109) 1,2-Dichlorobenzene	12.816	146	142400	10.009	ug/L	96
110) 1,2,4,5-Tetramethylben...	13.403	119	212185	9.471	ug/L	95
111) 1,2-Dibromo-3-chloropr...	13.587	155	9464	9.540	ug/L	97
112) 1,3,5-Trichlorobenzene	13.624	180	91210	9.265	ug/L	95
113) Hexachlorobutadiene	14.206	225	32268	9.551	ug/L	99
114) 1,2,4-Trichlorobenzene	14.221	180	82560	9.410	ug/L	99
115) Naphthalene	14.515	128	194881	9.761	ug/L	100
116) 1,2,3-Trichlorobenzene	14.683	180	80009	9.590	ug/L	97

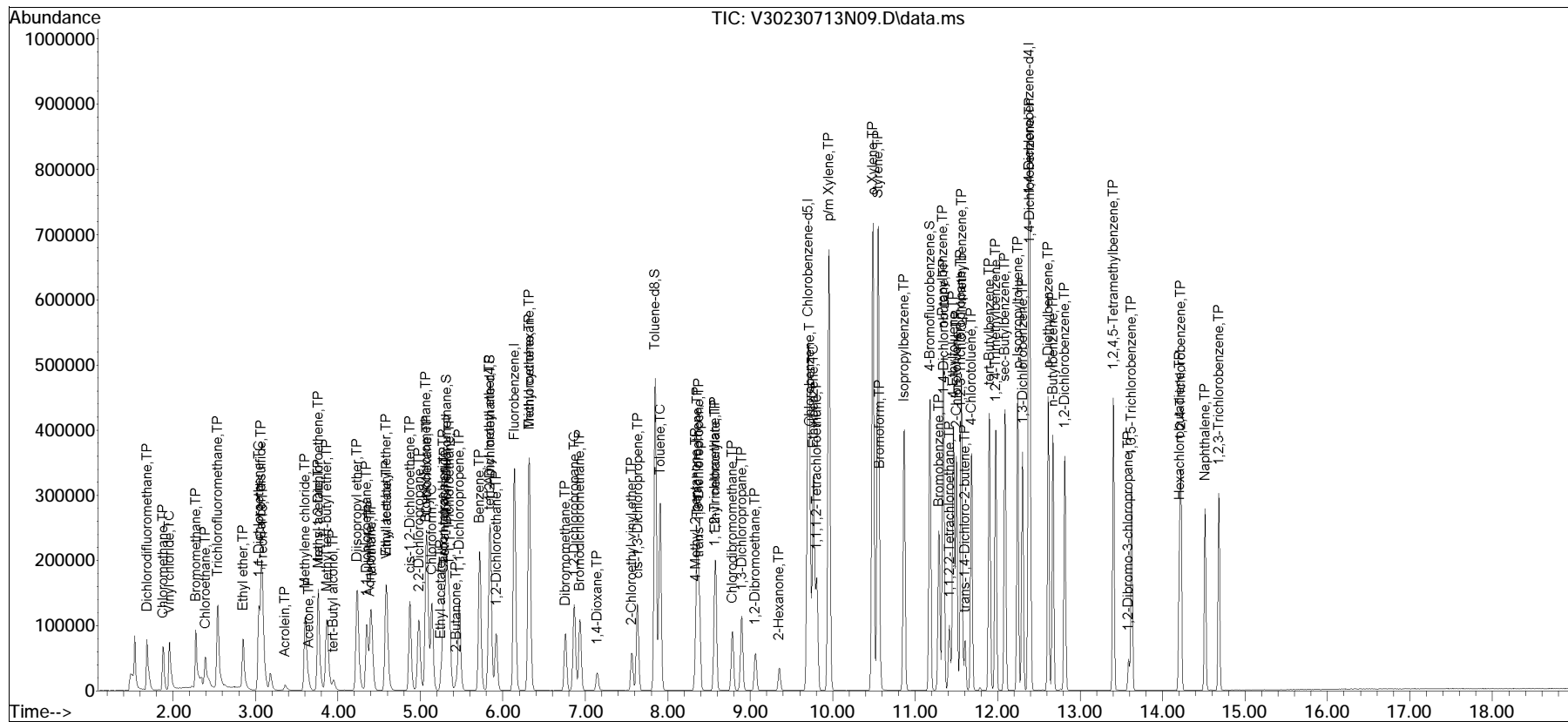
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N09.D
 Acq On : 13 Jul 2023 08:59 pm
 Operator : VOA130:PID
 Sample : I8260STD10PPB
 Misc : WG1803303,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 09:11:31 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

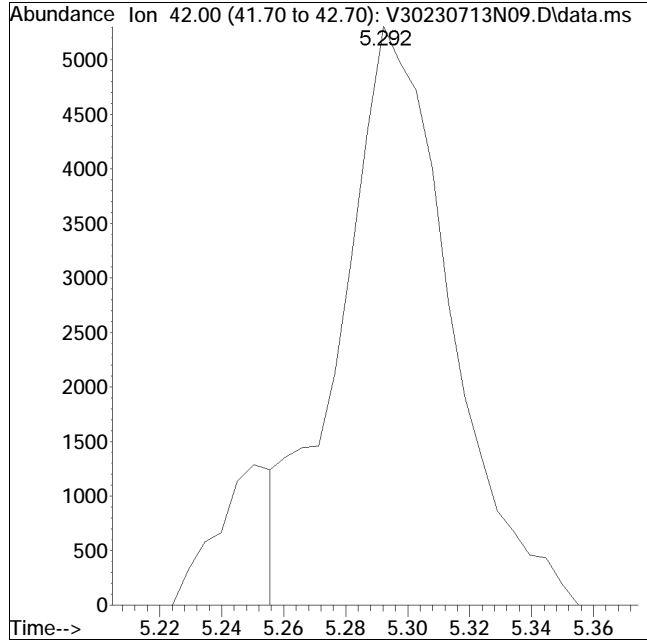
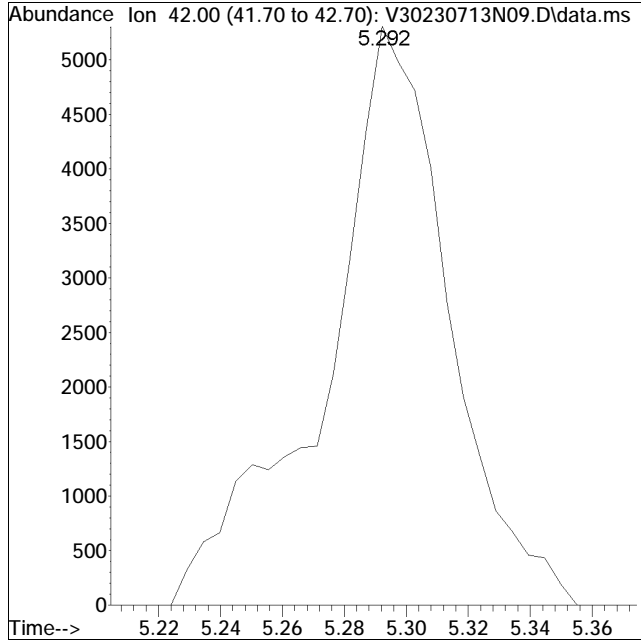
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N09.D Operator : VOA130:PID
Date Inj'd : 7/13/2023 8:59 pm Instrument : VOA130
Sample : I8260STD10PPB Quant Date : 7/14/2023 9:11 am

Compound #38: Tetrahydrofuran



Original Peak Response = 14729

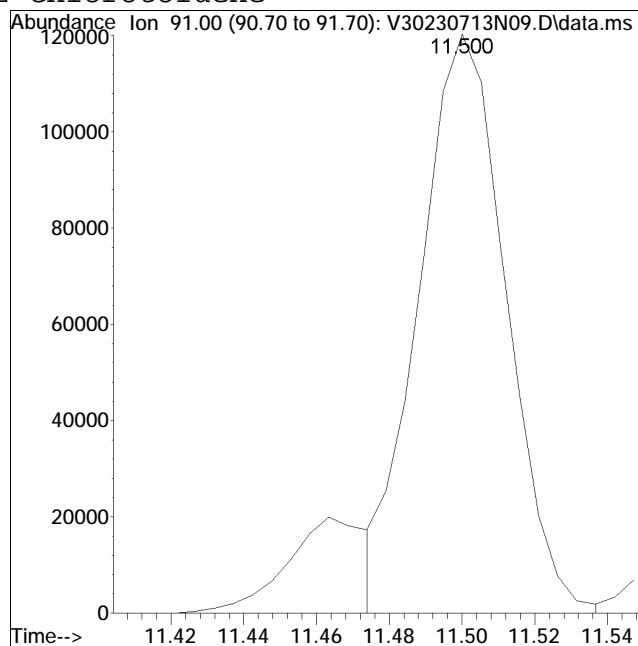
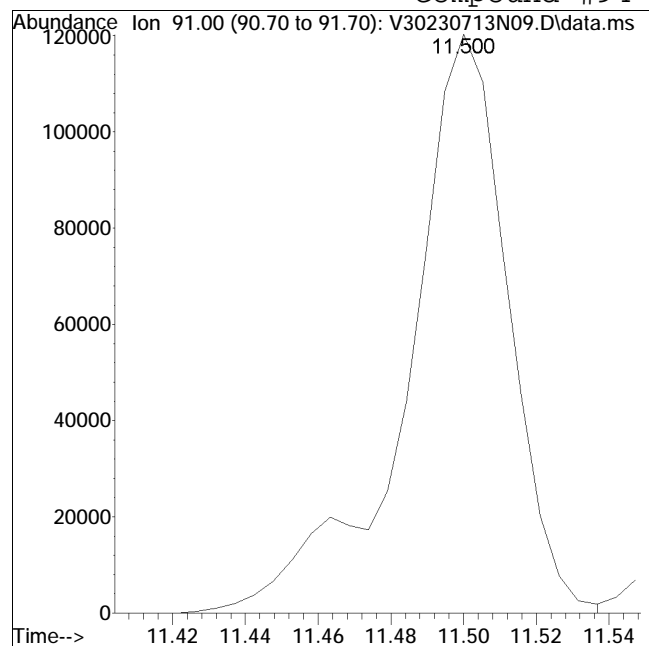
Manual Peak Response = 13078 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N09.D Operator : VOA130:PID
Date Inj'd : 7/13/2023 8:59 pm Instrument : VOA130
Sample : I8260STD10PPB Quant Date : 7/14/2023 9:11 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 230924

Manual Peak Response = 200508 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N10.D
 Acq On : 13 Jul 2023 09:21 pm
 Operator : VOA130:PID
 Sample : I8260STD30PPB
 Misc : WG1803303,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 14 09:11:40 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.142	96	377818	10.000	ug/L	# 0.00
Standard Area 1 = 352413			Recovery = 107.21%			
63) Chlorobenzene-d5	9.702	117	318642	10.000	ug/L	# 0.00
Standard Area 1 = 306855			Recovery = 103.84%			
84) 1,4-Dichlorobenzene-d4	12.381	152	201064	10.000	ug/L	0.00
Standard Area 1 = 183999			Recovery = 109.27%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.318	113	111139	9.636	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.36%			
47) 1,2-Dichloroethane-d4	5.848	65	111918	9.657	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.57%			
64) Toluene-d8	7.846	98	380450	10.004	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.04%			
88) 4-Bromofluorobenzene	11.175	95	154191	9.608	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.08%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.685	85	230256	29.539	ug/L	96
3) Chloromethane	1.879	50	201183	28.258	ug/L	97
4) Vinyl chloride	1.958	62	222318	28.218	ug/L	99
5) Bromomethane	2.277	94	133041	27.749	ug/L	98
6) Chloroethane	2.393	64	144014	28.958	ug/L	100
7) Trichlorofluoromethane	2.539	101	329878	29.503	ug/L	98
8) Ethyl ether	2.854	74	95135	28.628	ug/L	93
10) 1,1-Dichloroethene	3.043	96	161328	28.603	ug/L	# 73
11) Carbon disulfide	3.069	76	416436	27.461	ug/L	99
12) Freon-113	3.085	101	177104	29.451	ug/L	# 79
14) Acrolein	3.363	56	23328	28.714	ug/L	98
15) Methylene chloride	3.604	84	179148	27.772	ug/L	84
17) Acetone	3.641	43	40733	21.725	ug/L	92
18) trans-1,2-Dichloroethene	3.761	96	177755	28.170	ug/L	78
19) Methyl acetate	3.766	43	99174	26.050	ug/L	# 89
21) Methyl tert-butyl ether	3.866	73	434320	29.636	ug/L	95
22) tert-Butyl alcohol	3.945	59	62016	141.521	ug/L	90
24) Diisopropyl ether	4.233	45	520263	28.882	ug/L	95
25) 1,1-Dichloroethane	4.348	63	324905	28.566	ug/L	# 98
26) Halothane	4.406	117	147459	29.424	ug/L	97
27) Acrylonitrile	4.390	53	47185	28.952	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N10.D
 Acq On : 13 Jul 2023 09:21 pm
 Operator : VOA130:PID
 Sample : I8260STD30PPB
 Misc : WG1803303,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 14 09:11:40 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Ethyl tert-butyl ether	4.584	59	493109	29.165	ug/L #	71
29) Vinyl acetate	4.590	43	210244	28.555	ug/L #	95
30) cis-1,2-Dichloroethene	4.873	96	206181	28.501	ug/L #	79
31) 2,2-Dichloropropane	4.983	77	256804	29.757	ug/L	86
33) Bromochloromethane	5.067	128	106845	28.650	ug/L #	56
34) Cyclohexane	5.082	56	306161	30.263	ug/L	84
35) Chloroform	5.140	83	330751	28.827	ug/L	96
36) Ethyl acetate	5.250	43	129064	28.087	ug/L #	97
37) Carbon tetrachloride	5.287	117	282838	30.647	ug/L	97
38) Tetrahydrofuran	5.292	42	38840M6	28.517	ug/L	
40) 1,1,1-Trichloroethane	5.350	97	300833	29.526	ug/L	91
42) 2-Butanone	5.434	43	58572	29.353	ug/L	96
43) 1,1-Dichloropropene	5.470	75	232702	30.219	ug/L	90
45) Benzene	5.717	78	661264	29.379	ug/L	97
46) tert-Amyl methyl ether	5.837	73	423001	29.170	ug/L	94
48) 1,2-Dichloroethane	5.916	62	239763	28.422	ug/L #	98
51) Methyl cyclohexane	6.320	83	283913	30.018	ug/L	85
52) Trichloroethene	6.320	95	205862	29.692	ug/L #	85
54) Dibromomethane	6.755	93	113122	28.785	ug/L #	86
55) 1,2-Dichloropropane	6.865	63	176750	29.920	ug/L	95
57) 2-Chloroethyl vinyl ether	7.562	63	93927	29.688	ug/L #	84
58) Bromodichloromethane	6.933	83	252491	29.788	ug/L #	97
61) 1,4-Dioxane	7.143	88	26945	577.770	ug/L #	89
62) cis-1,3-Dichloropropene	7.631	75	268657	30.129	ug/L	89
65) Toluene	7.908	92	431804	29.276	ug/L	98
66) 4-Methyl-2-pentanone	8.344	58	44477	30.236	ug/L #	82
67) Tetrachloroethene	8.359	166	199983	29.601	ug/L	93
69) trans-1,3-Dichloropropene	8.386	75	235208	30.804	ug/L #	86
71) Ethyl methacrylate	8.580	69	168283	29.666	ug/L #	74
72) 1,1,2-Trichloroethane	8.569	83	119563	30.156	ug/L	92
73) Chlorodibromomethane	8.784	129	191634	30.285	ug/L	100
74) 1,3-Dichloropropane	8.894	76	237531	30.246	ug/L	100
75) 1,2-Dibromoethane	9.062	107	147084	30.125	ug/L	98
77) 2-Hexanone	9.350	43	83203	28.737	ug/L	95
78) Chlorobenzene	9.723	112	504163	29.218	ug/L	89
79) Ethylbenzene	9.765	91	852521	29.919	ug/L	94
80) 1,1,1,2-Tetrachloroethane	9.806	131	192195	30.296	ug/L	97
81) p/m Xylene	9.953	106	716651	60.888	ug/L	86
82) o Xylene	10.488	106	700014	60.246	ug/L	88
83) Styrene	10.551	104	1169943	62.047	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N10.D
 Acq On : 13 Jul 2023 09:21 pm
 Operator : VOA130:PID
 Sample : I8260STD30PPB
 Misc : WG1803303,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 14 09:11:40 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
85) Bromoform	10.567	173	120295	29.662	ug/L	98
87) Isopropylbenzene	10.866	105	895335	29.400	ug/L	94
89) Bromobenzene	11.290	156	238072	28.276	ug/L	100
90) n-Propylbenzene	11.337	91	1039373	29.731	ug/L #	90
91) 1,4-Dichlorobutane	11.348	55	226537	28.415	ug/L	97
92) 1,1,2,2-Tetrachloroethane	11.411	83	150854	28.621	ug/L #	98
93) 4-Ethyltoluene	11.463	105	901495	29.960	ug/L	94
94) 2-Chlorotoluene	11.500	91	619226M6	28.932	ug/L	
95) 1,3,5-Trimethylbenzene	11.563	105	750123	29.787	ug/L	94
96) 1,2,3-Trichloropropane	11.552	75	129110	28.260	ug/L #	75
97) trans-1,4-Dichloro-2-b...	11.605	53	50871	29.940	ug/L #	93
98) 4-Chlorotoluene	11.684	91	645497	29.398	ug/L #	85
99) tert-Butylbenzene	11.898	119	679779	29.840	ug/L	88
102) 1,2,4-Trimethylbenzene	11.977	105	728788	29.488	ug/L	93
103) sec-Butylbenzene	12.092	105	958360	30.158	ug/L	89
104) p-Isopropyltoluene	12.245	119	850044	30.424	ug/L	93
105) 1,3-Dichlorobenzene	12.302	146	477965	29.256	ug/L	96
106) 1,4-Dichlorobenzene	12.391	146	477618	29.177	ug/L	96
107) p-Diethylbenzene	12.612	119	486778	29.892	ug/L	92
108) n-Butylbenzene	12.669	91	665504	30.379	ug/L #	95
109) 1,2-Dichlorobenzene	12.816	146	453977	29.201	ug/L	96
110) 1,2,4,5-Tetramethylben...	13.403	119	707024	28.880	ug/L	94
111) 1,2-Dibromo-3-chloropr...	13.587	155	32477	29.959	ug/L	98
112) 1,3,5-Trichlorobenzene	13.623	180	311649	28.970	ug/L	95
113) Hexachlorobutadiene	14.205	225	109280	29.600	ug/L	99
114) 1,2,4-Trichlorobenzene	14.221	180	273066	28.481	ug/L	100
115) Naphthalene	14.515	128	631346	28.937	ug/L	100
116) 1,2,3-Trichlorobenzene	14.683	180	264665	29.032	ug/L	99

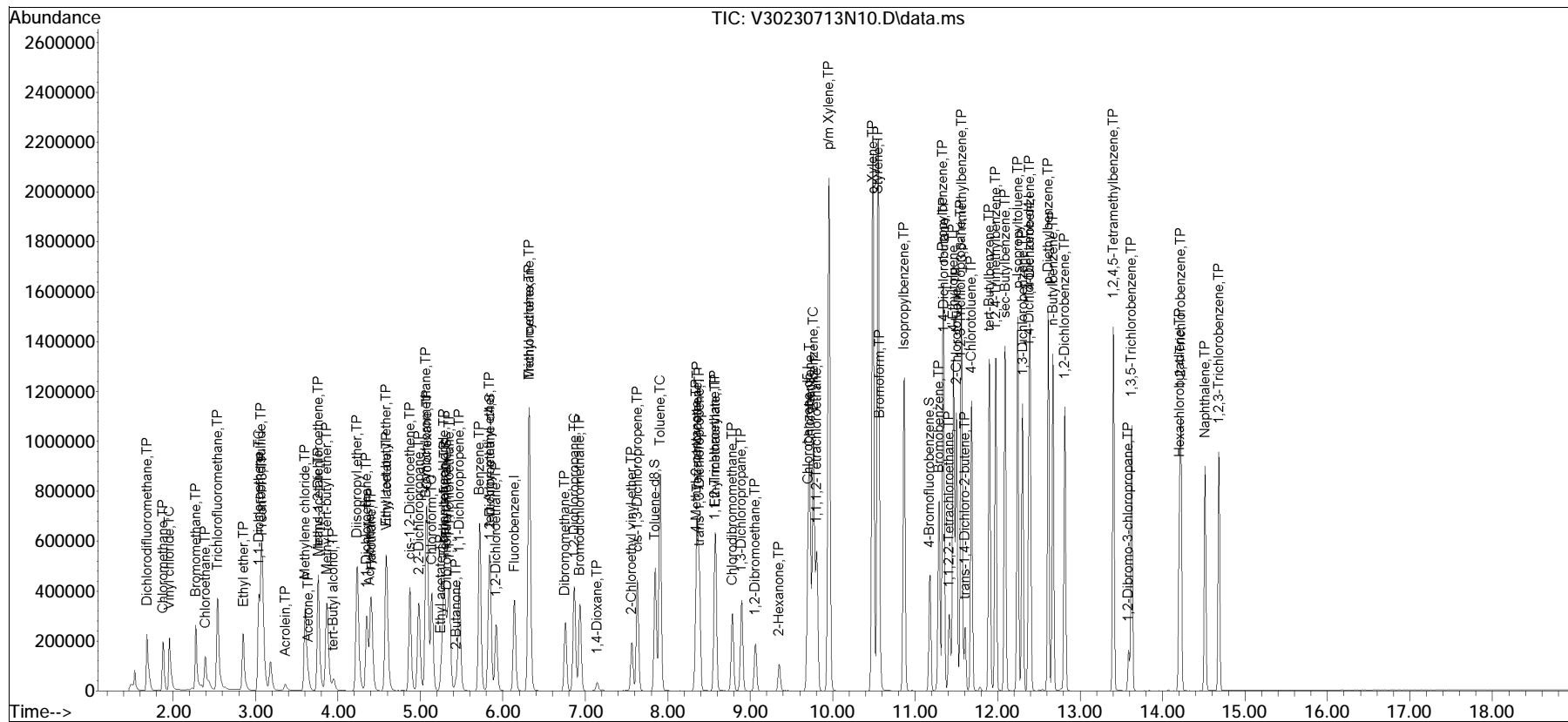
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N10.D
 Acq On : 13 Jul 2023 09:21 pm
 Operator : VOA130:PID
 Sample : I8260STD30PPB
 Misc : WG1803303,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 14 09:11:40 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

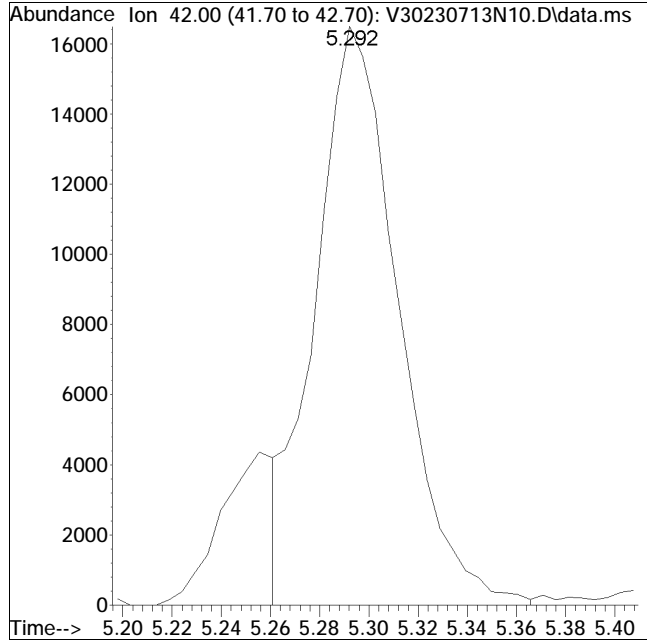
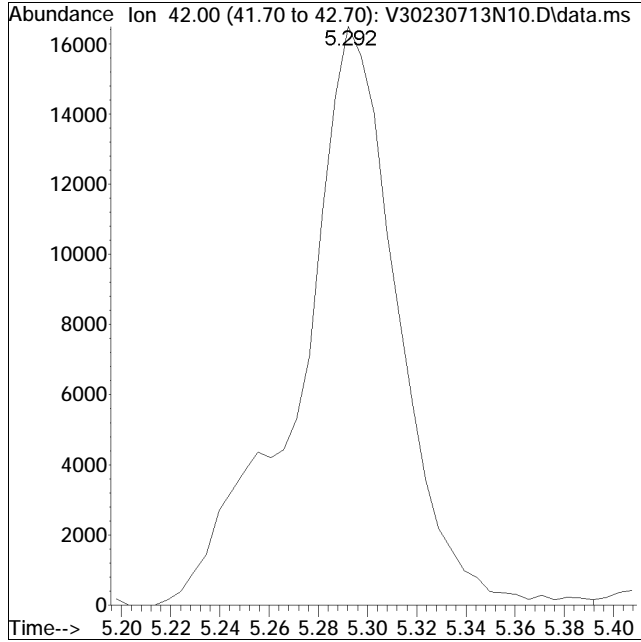
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N10.D Operator : VOA130:PID
Date Inj'd : 7/13/2023 9:21 pm Instrument : VOA130
Sample : I8260STD30PPB Quant Date : 7/14/2023 9:11 am

Compound #38: Tetrahydrofuran



Original Peak Response = 45848

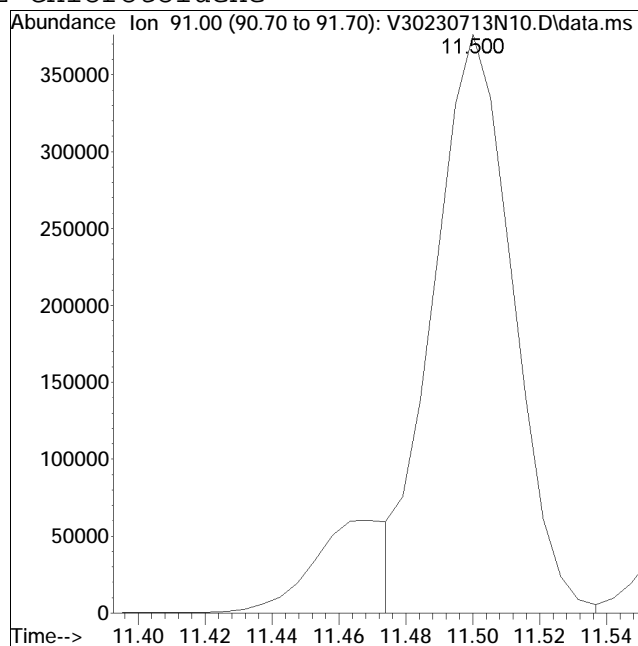
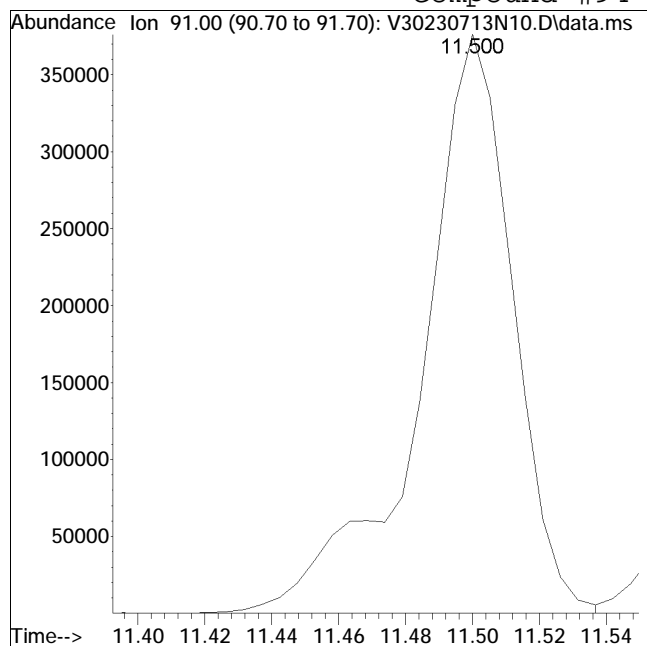
Manual Peak Response = 38840 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N10.D Operator : VOA130:PID
Date Inj'd : 7/13/2023 9:21 pm Instrument : VOA130
Sample : I8260STD30PPB Quant Date : 7/14/2023 9:11 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 713439

Manual Peak Response = 619226 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N11.D
 Acq On : 13 Jul 2023 09:44 pm
 Operator : VOA130:PID
 Sample : I8260STD80PPB
 Misc : WG1803303,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 14 09:11:49 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.141	96	388471	10.000	ug/L	#	0.00
Standard Area 1 = 352413			Recovery = 110.23%				
63) Chlorobenzene-d5	9.702	117	324724	10.000	ug/L	#	0.00
Standard Area 1 = 306855			Recovery = 105.82%				
84) 1,4-Dichlorobenzene-d4	12.381	152	202730	10.000	ug/L		0.00
Standard Area 1 = 183999			Recovery = 110.18%				
System Monitoring Compounds							
39) Dibromofluoromethane	5.318	113	112557	9.492	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.92%				
47) 1,2-Dichloroethane-d4	5.848	65	113254	9.504	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.04%				
64) Toluene-d8	7.845	98	384943	9.932	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.32%				
88) 4-Bromofluorobenzene	11.180	95	153985	9.516	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.16%				
Target Compounds							
						Qvalue	
2) Dichlorodifluoromethane	1.685	85	650316	81.141	ug/L		96
3) Chloromethane	1.879	50	577347	78.869	ug/L		98
4) Vinyl chloride	1.957	62	639875	78.989	ug/L		99
5) Bromomethane	2.277	94	409064	82.980	ug/L		98
6) Chloroethane	2.393	64	407978	79.785	ug/L		100
7) Trichlorofluoromethane	2.545	101	928094	80.729	ug/L		98
8) Ethyl ether	2.854	74	273489	80.041	ug/L		91
10) 1,1-Dichloroethene	3.043	96	475683	82.026	ug/L	#	72
11) Carbon disulfide	3.069	76	1226198	78.642	ug/L		99
12) Freon-113	3.085	101	510603	82.581	ug/L	#	79
14) Acrolein	3.363	56	65256	78.121	ug/L		98
15) Methylene chloride	3.604	84	521586	78.641	ug/L		84
17) Acetone	3.640	43	109211	56.651	ug/L	#	90
18) trans-1,2-Dichloroethene	3.761	96	525693	81.026	ug/L		78
19) Methyl acetate	3.766	43	276614	70.666	ug/L	#	87
21) Methyl tert-butyl ether	3.866	73	1293089	85.816	ug/L		94
22) tert-Butyl alcohol	3.950	59	174386	387.037	ug/L		91
24) Diisopropyl ether	4.233	45	1595455	86.143	ug/L	#	96
25) 1,1-Dichloroethane	4.354	63	956778	81.814	ug/L	#	98
26) Halothane	4.401	117	437300	84.865	ug/L		97
27) Acrylonitrile	4.390	53	131435	78.436	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N11.D
 Acq On : 13 Jul 2023 09:44 pm
 Operator : VOA130:PID
 Sample : I8260STD80PPB
 Misc : WG1803303,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 14 09:11:49 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Ethyl tert-butyl ether	4.584	59	1515246	87.161	ug/L #	70
29) Vinyl acetate	4.589	43	612433	80.900	ug/L #	95
30) cis-1,2-Dichloroethene	4.873	96	609620	81.958	ug/L #	79
31) 2,2-Dichloropropane	4.983	77	748686	84.373	ug/L	85
33) Bromochloromethane	5.067	128	311906	81.342	ug/L #	55
34) Cyclohexane	5.082	56	892575	85.808	ug/L	83
35) Chloroform	5.140	83	963607	81.680	ug/L	95
36) Ethyl acetate	5.250	43	366684	77.610	ug/L #	97
37) Carbon tetrachloride	5.282	117	844778	89.026	ug/L	97
38) Tetrahydrofuran	5.292	42	107913M6	77.059	ug/L	
40) 1,1,1-Trichloroethane	5.350	97	882665	84.256	ug/L	91
42) 2-Butanone	5.434	43	162102	79.009	ug/L	96
43) 1,1-Dichloropropene	5.470	75	697242	88.062	ug/L	90
45) Benzene	5.722	78	2000061	86.422	ug/L	98
46) tert-Amyl methyl ether	5.837	73	1281476	85.945	ug/L	94
48) 1,2-Dichloroethane	5.916	62	687731	79.288	ug/L #	98
51) Methyl cyclohexane	6.320	83	854601	87.878	ug/L	84
52) Trichloroethene	6.320	95	632214	88.685	ug/L #	86
54) Dibromomethane	6.755	93	325789	80.627	ug/L #	84
55) 1,2-Dichloropropane	6.865	63	528999	87.091	ug/L	96
57) 2-Chloroethyl vinyl ether	7.562	63	282588	86.869	ug/L #	82
58) Bromodichloromethane	6.933	83	755177	86.651	ug/L #	97
61) 1,4-Dioxane	7.143	88	37801	788.323	ug/L #	88
62) cis-1,3-Dichloropropene	7.630	75	823214	89.788	ug/L #	88
65) Toluene	7.908	92	1292978	86.022	ug/L	97
66) 4-Methyl-2-pentanone	8.338	58	128256	85.557	ug/L #	81
67) Tetrachloroethene	8.354	166	613311	89.081	ug/L	92
69) trans-1,3-Dichloropropene	8.386	75	716012	92.015	ug/L #	85
71) Ethyl methacrylate	8.579	69	485964	84.065	ug/L #	72
72) 1,1,2-Trichloroethane	8.569	83	358800	88.800	ug/L	93
73) Chlorodibromomethane	8.784	129	602379	93.415	ug/L	98
74) 1,3-Dichloropropane	8.894	76	707547	88.407	ug/L	100
75) 1,2-Dibromoethane	9.062	107	444836	89.401	ug/L	99
77) 2-Hexanone	9.350	43	232346	78.747	ug/L	94
78) Chlorobenzene	9.722	112	1509292	85.831	ug/L	88
79) Ethylbenzene	9.770	91	2526514	87.007	ug/L	93
80) 1,1,1,2-Tetrachloroethane	9.806	131	606720	93.847	ug/L	97
81) p/m Xylene	9.953	106	2121417	176.863	ug/L	85
82) o Xylene	10.488	106	2090724	176.566	ug/L	86
83) Styrene	10.551	104	3500540	182.171	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N11.D
 Acq On : 13 Jul 2023 09:44 pm
 Operator : VOA130:PID
 Sample : I8260STD80PPB
 Misc : WG1803303,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 14 09:11:49 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
85) Bromoform	10.567	173	376573	92.093	ug/L	98
87) Isopropylbenzene	10.865	105	2668665	86.911	ug/L	94
89) Bromobenzene	11.290	156	713932	84.097	ug/L	99
90) n-Propylbenzene	11.337	91	3104227	88.067	ug/L #	89
91) 1,4-Dichlorobutane	11.348	55	648609	80.686	ug/L	98
92) 1,1,2,2-Tetrachloroethane	11.416	83	436251	82.089	ug/L #	99
93) 4-Ethyltoluene	11.463	105	2735510	90.163	ug/L	94
94) 2-Chlorotoluene	11.500	91	1840273M6	85.277	ug/L	
95) 1,3,5-Trimethylbenzene	11.563	105	2333268	91.893	ug/L	93
96) 1,2,3-Trichloropropane	11.552	75	365032	79.244	ug/L #	76
97) trans-1,4-Dichloro-2-b...	11.605	53	143048	83.498	ug/L #	92
98) 4-Chlorotoluene	11.683	91	1912326	86.379	ug/L #	84
99) tert-Butylbenzene	11.904	119	2045804	89.067	ug/L	88
102) 1,2,4-Trimethylbenzene	11.977	105	2303876	92.454	ug/L	93
103) sec-Butylbenzene	12.092	105	2893429	90.302	ug/L	89
104) p-Isopropyltoluene	12.244	119	2629390	93.337	ug/L	94
105) 1,3-Dichlorobenzene	12.302	146	1445404	87.744	ug/L	95
106) 1,4-Dichlorobenzene	12.396	146	1447604	87.704	ug/L	96
107) p-Diethylbenzene	12.617	119	1564657	95.292	ug/L	92
108) n-Butylbenzene	12.669	91	2094838	94.839	ug/L #	95
109) 1,2-Dichlorobenzene	12.816	146	1376221	87.796	ug/L	95
110) 1,2,4,5-Tetramethylben...	13.403	119	2346168	95.046	ug/L	93
111) 1,2-Dibromo-3-chloropr...	13.592	155	95280	87.169	ug/L	98
112) 1,3,5-Trichlorobenzene	13.629	180	1027725	94.750	ug/L	94
113) Hexachlorobutadiene	14.205	225	351499	94.425	ug/L	99
114) 1,2,4-Trichlorobenzene	14.221	180	880805	91.113	ug/L	100
115) Naphthalene	14.515	128	1879798	85.452	ug/L	100
116) 1,2,3-Trichlorobenzene	14.682	180	820347	89.247	ug/L	99

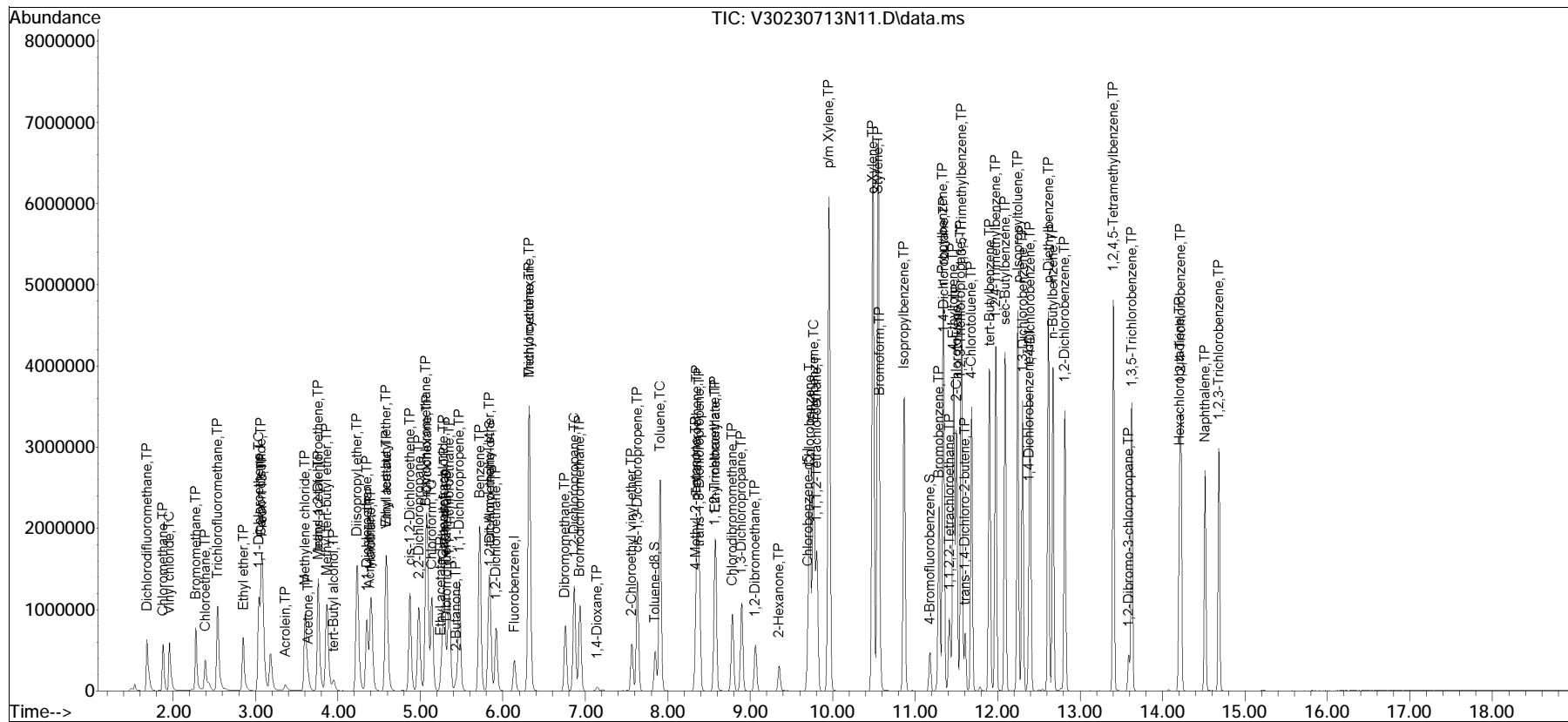
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N11.D
 Acq On : 13 Jul 2023 09:44 pm
 Operator : VOA130:PID
 Sample : I8260STD80PPB
 Misc : WG1803303,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 14 09:11:49 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

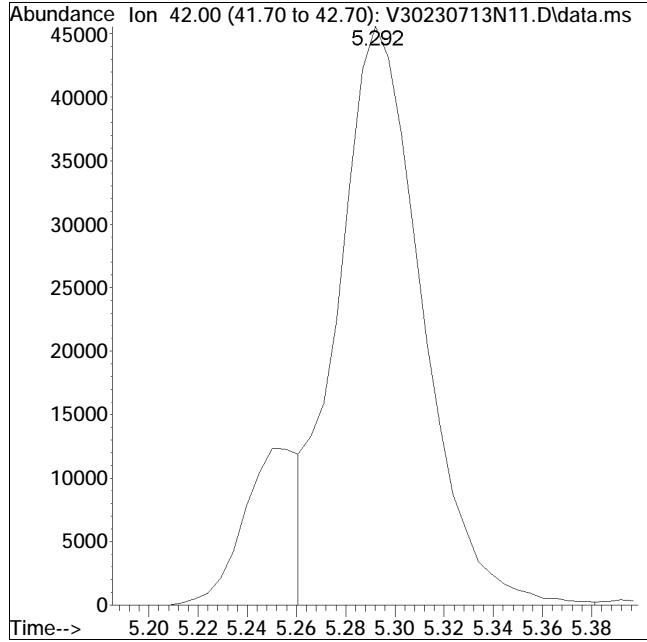
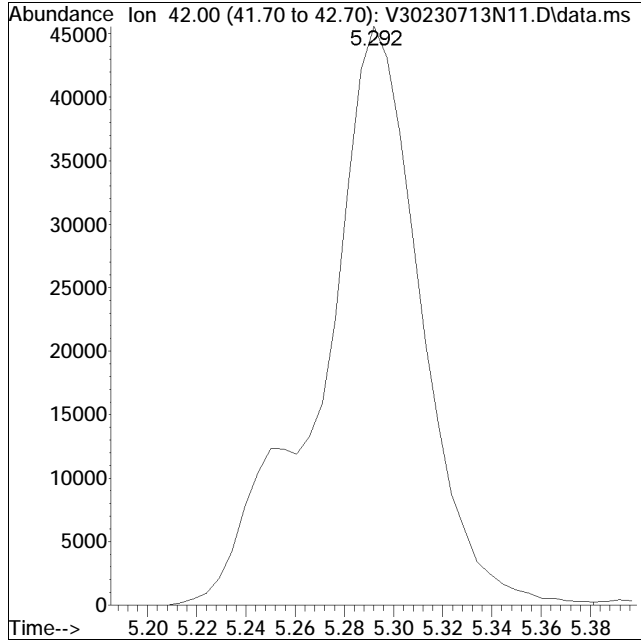
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N11.D Operator : VOA130:PID
Date Inj'd : 7/13/2023 9:44 pm Instrument : VOA130
Sample : I8260STD80PPB Quant Date : 7/14/2023 9:11 am

Compound #38: Tetrahydrofuran



Original Peak Response = 127640

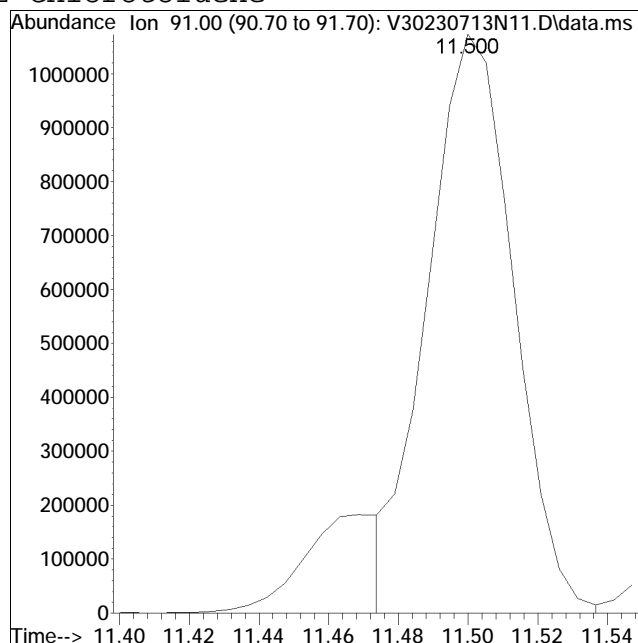
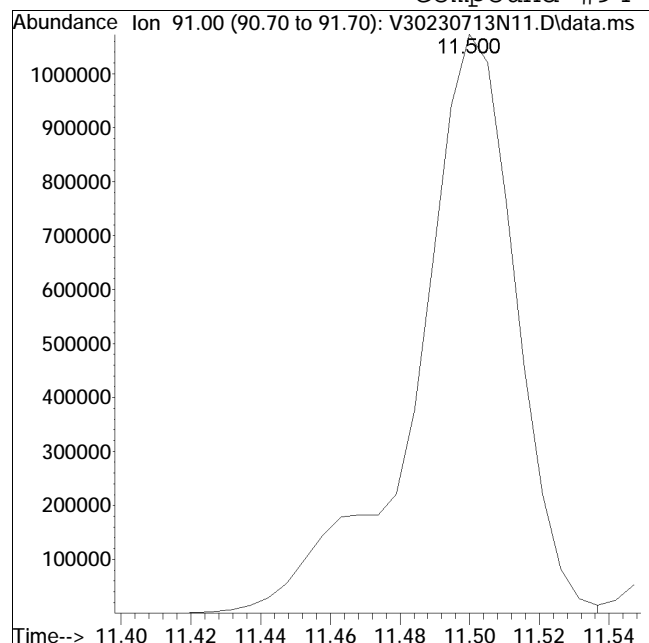
Manual Peak Response = 107913 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N11.D Operator : VOA130:PID
Date Inj'd : 7/13/2023 9:44 pm Instrument : VOA130
Sample : I8260STD80PPB Quant Date : 7/14/2023 9:11 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 2120151

Manual Peak Response = 1840273 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N12.D
 Acq On : 13 Jul 2023 10:06 pm
 Operator : VOA130:PID
 Sample : I8260STD120PPB
 Misc : WG1803303,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 14 09:11:58 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.141	96	405016	10.000	ug/L	#	0.00
Standard Area 1 = 352413			Recovery =	114.93%			
63) Chlorobenzene-d5	9.701	117	341712	10.000	ug/L	#	0.00
Standard Area 1 = 306855			Recovery =	111.36%			
84) 1,4-Dichlorobenzene-d4	12.381	152	215475	10.000	ug/L		0.00
Standard Area 1 = 183999			Recovery =	117.11%			
System Monitoring Compounds							
39) Dibromofluoromethane	5.318	113	116878	9.453	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.53%			
47) 1,2-Dichloroethane-d4	5.848	65	119673	9.633	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.33%			
64) Toluene-d8	7.851	98	399728	9.801	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.01%			
88) 4-Bromofluorobenzene	11.180	95	160553	9.335	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.35%			
Target Compounds							
						Qvalue	
2) Dichlorodifluoromethane	1.685	85	965259	115.517	ug/L		96
3) Chloromethane	1.879	50	846544	110.919	ug/L		98
4) Vinyl chloride	1.957	62	918641	108.769	ug/L		98
5) Bromomethane	2.277	94	606496	118.003	ug/L		98
6) Chloroethane	2.387	64	582872M1	109.331	ug/L		
7) Trichlorofluoromethane	2.539	101	1362570	113.680	ug/L		98
8) Ethyl ether	2.849	74	405566	113.846	ug/L		92
10) 1,1-Dichloroethene	3.043	96	703822	116.408	ug/L	#	71
11) Carbon disulfide	3.069	76	1806650	111.137	ug/L		98
12) Freon-113	3.085	101	764768	118.635	ug/L	#	78
14) Acrolein	3.362	56	100154	115.001	ug/L		99
15) Methylene chloride	3.604	84	756360	109.380	ug/L		84
17) Acetone	3.640	43	166725	82.952	ug/L	#	90
18) trans-1,2-Dichloroethene	3.761	96	763864	112.927	ug/L		78
19) Methyl acetate	3.766	43	425856	104.348	ug/L	#	88
21) Methyl tert-butyl ether	3.866	73	1939960	123.486	ug/L		94
22) tert-Butyl alcohol	3.950	59	276068	587.683	ug/L		90
24) Diisopropyl ether	4.233	45	2338873	121.123	ug/L	#	96
25) 1,1-Dichloroethane	4.348	63	1367180	112.132	ug/L	#	97
26) Halothane	4.406	117	640484	119.218	ug/L		97
27) Acrylonitrile	4.390	53	201963	115.602	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N12.D
 Acq On : 13 Jul 2023 10:06 pm
 Operator : VOA130:PID
 Sample : I8260STD120PPB
 Misc : WG1803303,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 14 09:11:58 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Ethyl tert-butyl ether	4.584	59	2253998	124.359	ug/L #	69
29) Vinyl acetate	4.589	43	887483	112.443	ug/L #	95
30) cis-1,2-Dichloroethene	4.872	96	877883	113.202	ug/L #	78
31) 2,2-Dichloropropane	4.983	77	1067957	115.437	ug/L	85
33) Bromochloromethane	5.066	128	456670	114.229	ug/L #	54
34) Cyclohexane	5.082	56	1312811	121.052	ug/L	83
35) Chloroform	5.140	83	1367464	111.178	ug/L	95
36) Ethyl acetate	5.255	43	556644	113.002	ug/L #	97
37) Carbon tetrachloride	5.287	117	1233375	124.668	ug/L	97
38) Tetrahydrofuran	5.292	42	161674M6	110.733	ug/L	
40) 1,1,1-Trichloroethane	5.350	97	1270406	116.315	ug/L	91
42) 2-Butanone	5.433	43	245471	114.756	ug/L	98
43) 1,1-Dichloropropene	5.470	75	1007866	122.094	ug/L	90
45) Benzene	5.717	78	2874837	119.147	ug/L	98
46) tert-Amyl methyl ether	5.837	73	1909150	122.811	ug/L	93
48) 1,2-Dichloroethane	5.921	62	997294	110.281	ug/L #	98
51) Methyl cyclohexane	6.320	83	1271991	125.455	ug/L	84
52) Trichloroethene	6.320	95	913495	122.908	ug/L #	85
54) Dibromomethane	6.755	93	481876	114.384	ug/L #	83
55) 1,2-Dichloropropane	6.865	63	763959	120.636	ug/L	96
57) 2-Chloroethyl vinyl ether	7.562	63	428308	126.286	ug/L #	83
58) Bromodichloromethane	6.933	83	1086780	119.606	ug/L #	97
61) 1,4-Dioxane	7.148	88	59197	1184.096	ug/L #	89
62) cis-1,3-Dichloropropene	7.630	75	1198828	125.415	ug/L #	87
65) Toluene	7.908	92	1858042	117.471	ug/L	97
66) 4-Methyl-2-pentanone	8.338	58	198928	126.104	ug/L #	80
67) Tetrachloroethene	8.359	166	899204	124.113	ug/L #	91
69) trans-1,3-Dichloropropene	8.385	75	1056294	128.996	ug/L #	85
71) Ethyl methacrylate	8.585	69	729550	119.927	ug/L #	73
72) 1,1,2-Trichloroethane	8.569	83	529428	124.515	ug/L	92
73) Chlorodibromomethane	8.784	129	895720	132.000	ug/L	99
74) 1,3-Dichloropropane	8.899	76	1043862	123.945	ug/L	100
75) 1,2-Dibromoethane	9.062	107	667488	127.480	ug/L	99
77) 2-Hexanone	9.350	43	354249	114.093	ug/L	93
78) Chlorobenzene	9.722	112	2171779	117.366	ug/L #	88
79) Ethylbenzene	9.770	91	3594768	117.640	ug/L	93
80) 1,1,1,2-Tetrachloroethane	9.806	131	881023	129.502	ug/L	97
81) p/m Xylene	9.958	106	3012151	238.640	ug/L	84
82) o Xylene	10.488	106	2980228	239.174	ug/L	85
83) Styrene	10.551	104	4943704	244.484	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N12.D
 Acq On : 13 Jul 2023 10:06 pm
 Operator : VOA130:PID
 Sample : I8260STD120PPB
 Misc : WG1803303,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 14 09:11:58 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
85) Bromoform	10.566	173	565002	130.001	ug/L	97
87) Isopropylbenzene	10.865	105	3768146	115.459	ug/L	93
89) Bromobenzene	11.290	156	1030682	114.227	ug/L	99
90) n-Propylbenzene	11.342	91	4402479	117.510	ug/L #	89
91) 1,4-Dichlorobutane	11.348	55	960816	112.455	ug/L	98
92) 1,1,2,2-Tetrachloroethane	11.416	83	646130	114.390	ug/L #	99
93) 4-Ethyltoluene	11.468	105	3882194	120.390	ug/L	93
94) 2-Chlorotoluene	11.500	91	2608002M6	113.705	ug/L	
95) 1,3,5-Trimethylbenzene	11.563	105	3363929	124.648	ug/L	93
96) 1,2,3-Trichloropropane	11.552	75	546105	111.541	ug/L #	75
97) trans-1,4-Dichloro-2-b...	11.605	53	210593	115.653	ug/L #	89
98) 4-Chlorotoluene	11.683	91	2729127	115.982	ug/L #	85
99) tert-Butylbenzene	11.903	119	2908209	119.124	ug/L	88
102) 1,2,4-Trimethylbenzene	11.977	105	3322428	125.442	ug/L	93
103) sec-Butylbenzene	12.092	105	4129450	121.255	ug/L	88
104) p-Isopropyltoluene	12.244	119	3786035	126.445	ug/L	93
105) 1,3-Dichlorobenzene	12.302	146	2073039	118.402	ug/L	96
106) 1,4-Dichlorobenzene	12.396	146	2082491	118.706	ug/L	96
107) p-Diethylbenzene	12.617	119	2269823	130.062	ug/L	93
108) n-Butylbenzene	12.674	91	3010630	128.238	ug/L #	95
109) 1,2-Dichlorobenzene	12.816	146	1977973	118.721	ug/L	96
110) 1,2,4,5-Tetramethylben...	13.403	119	3431753	130.801	ug/L	93
111) 1,2-Dibromo-3-chloropr...	13.592	155	148773	128.058	ug/L	96
112) 1,3,5-Trichlorobenzene	13.628	180	1507986	130.804	ug/L	94
113) Hexachlorobutadiene	14.205	225	521283	131.752	ug/L	99
114) 1,2,4-Trichlorobenzene	14.221	180	1288776	125.429	ug/L	100
115) Naphthalene	14.515	128	2806547	120.034	ug/L	100
116) 1,2,3-Trichlorobenzene	14.682	180	1204899	123.329	ug/L	99

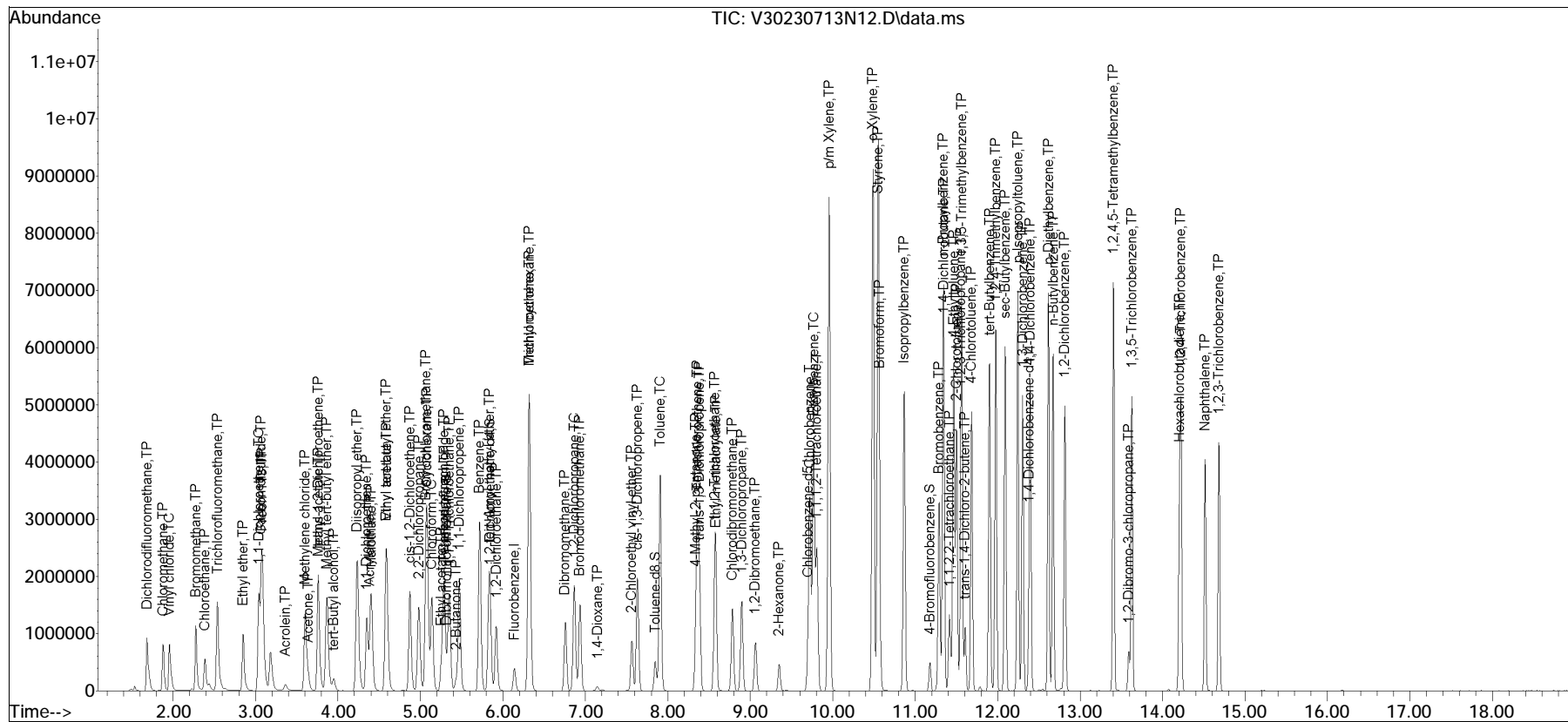
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N12.D
 Acq On : 13 Jul 2023 10:06 pm
 Operator : VOA130:PID
 Sample : I8260STD120PPB
 Misc : WG1803303,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 14 09:11:58 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

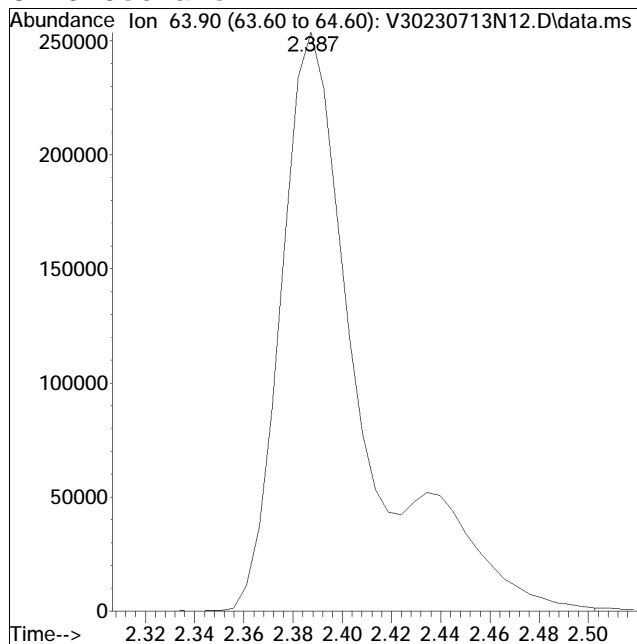
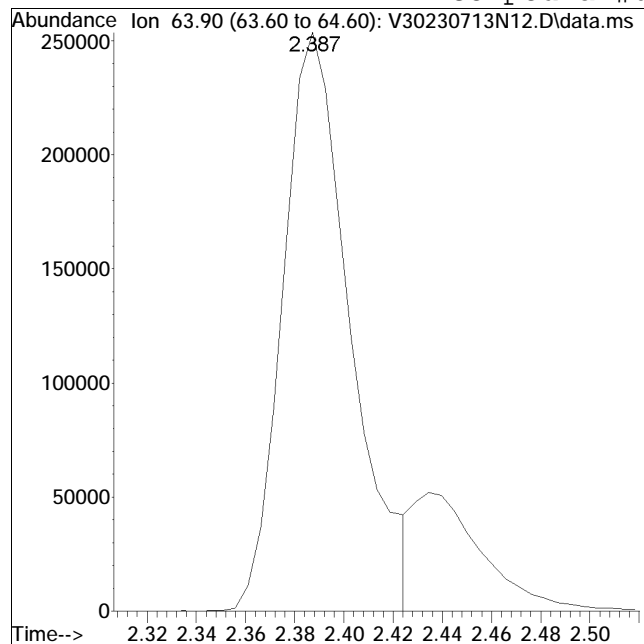
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N12.D Operator : VOA130:PID
Date Inj'd : 7/13/2023 10:06 pm Instrument : VOA130
Sample : I8260STD120PPB Quant Date : 7/14/2023 9:11 am

Compound #6: Chloroethane



Original Peak Response = 481408

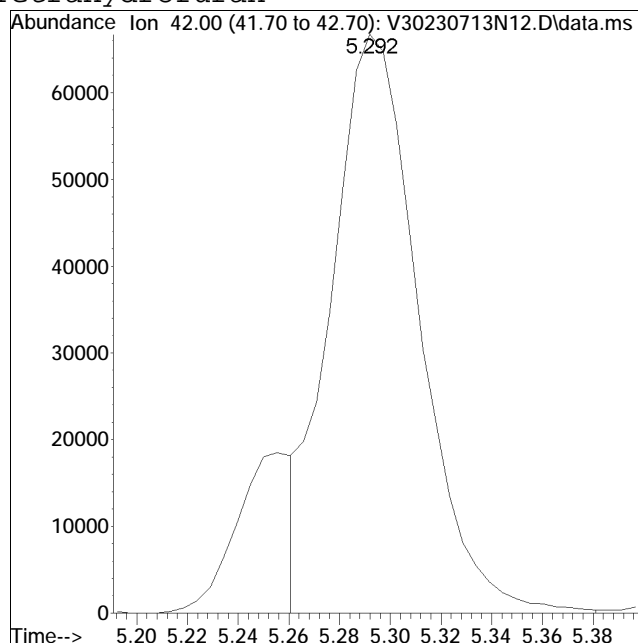
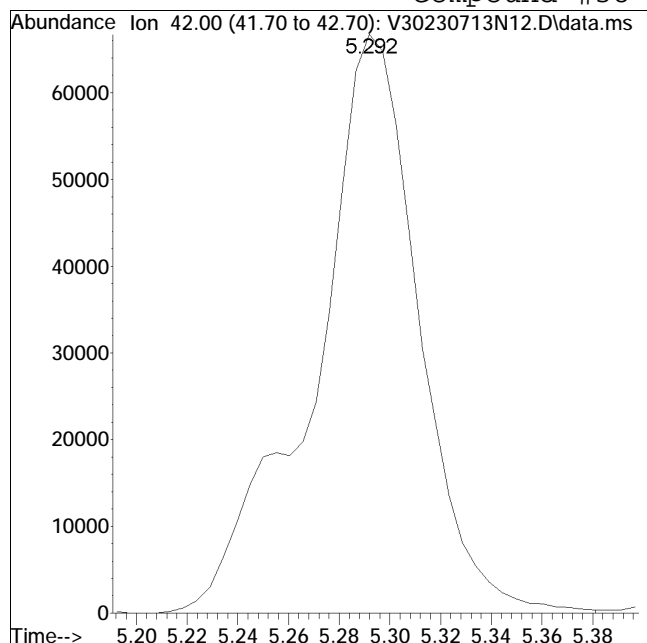
Manual Peak Response = 582872 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N12.D Operator : VOA130:PID
Date Inj'd : 7/13/2023 10:06 pm Instrument : VOA130
Sample : I8260STD120PPB Quant Date : 7/14/2023 9:11 am

Compound #38: Tetrahydrofuran



Original Peak Response = 190408

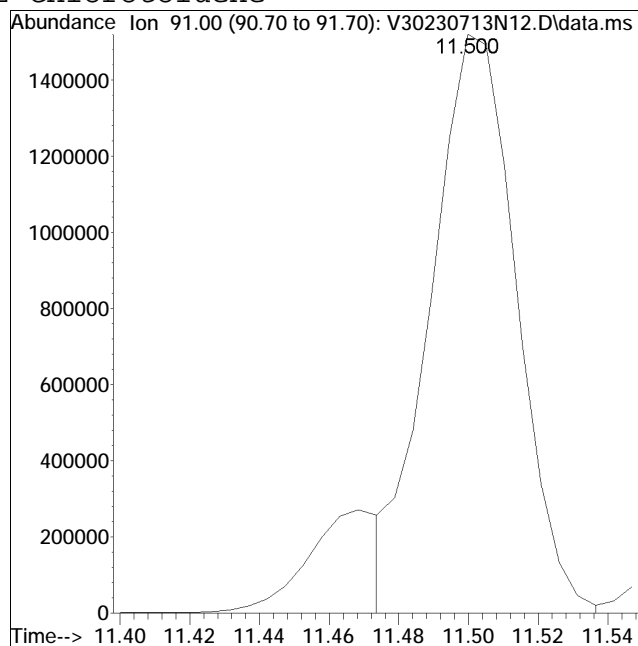
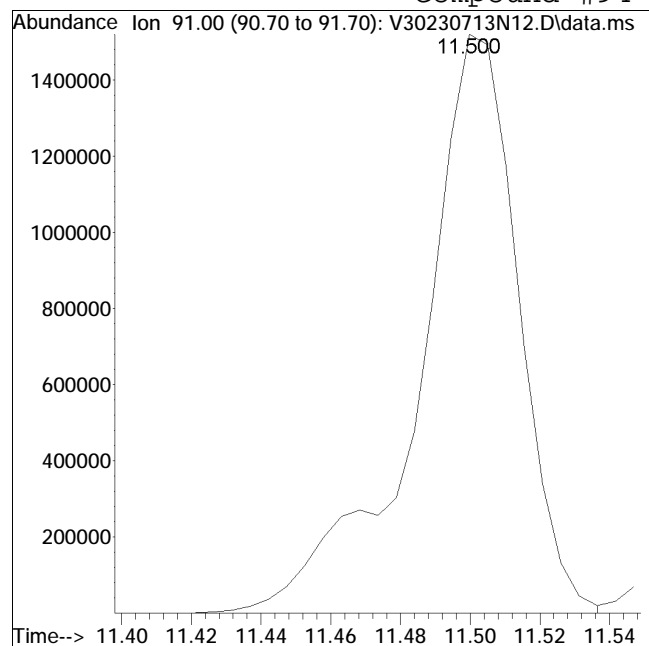
Manual Peak Response = 161674 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N12.D Operator : VOA130:PID
Date Inj'd : 7/13/2023 10:06 pm Instrument : VOA130
Sample : I8260STD120PPB Quant Date : 7/14/2023 9:11 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 2994657

Manual Peak Response = 2608002 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N13.D
 Acq On : 13 Jul 2023 10:28 pm
 Operator : VOA130:PID
 Sample : I8260STD200PPB
 Misc : WG1803303,ICAL
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 14 09:12:07 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.142	96	418807	10.000	ug/L	# 0.00
Standard Area 1 = 352413			Recovery = 118.84%			
63) Chlorobenzene-d5	9.702	117	353674	10.000	ug/L	# 0.00
Standard Area 1 = 306855			Recovery = 115.26%			
84) 1,4-Dichlorobenzene-d4	12.381	152	222886	10.000	ug/L	0.00
Standard Area 1 = 183999			Recovery = 121.13%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.318	113	117972	9.228	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.28%			
47) 1,2-Dichloroethane-d4	5.848	65	120829	9.405	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.05%			
64) Toluene-d8	7.851	98	415030	9.832	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.32%			
88) 4-Bromofluorobenzene	11.180	95	165226	9.287	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.87%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.685	85	1729592	200.172	ug/L	96
3) Chloromethane	1.879	50	1545628	195.848	ug/L	97
4) Vinyl chloride	1.958	62	1674481	191.733	ug/L	99
5) Bromomethane	2.277	94	1189463	223.808	ug/L	97
6) Chloroethane	2.382	64	1071270M1	194.325	ug/L	
7) Trichlorofluoromethane	2.534	101	2471066	199.374	ug/L	98
8) Ethyl ether	2.849	74	731758	198.648	ug/L	91
10) 1,1-Dichloroethene	3.043	96	1290990	206.491	ug/L #	71
11) Carbon disulfide	3.069	76	3327536	197.954	ug/L	98
12) Freon-113	3.085	101	1379440	206.939	ug/L #	77
14) Acrolein	3.363	56	178457	198.164	ug/L	100
15) Methylene chloride	3.604	84	1377939	192.707	ug/L	83
17) Acetone	3.646	43	281856	135.616	ug/L #	89
18) trans-1,2-Dichloroethene	3.761	96	1408398	201.356	ug/L	78
19) Methyl acetate	3.766	43	746647	176.928	ug/L #	87
21) Methyl tert-butyl ether	3.866	73	3442716	211.926	ug/L	94
22) tert-Butyl alcohol	3.950	59	474026	975.860	ug/L	90
24) Diisopropyl ether	4.233	45	4262808	213.488	ug/L #	96
25) 1,1-Dichloroethane	4.348	63	2496967	198.051	ug/L #	97
26) Halothane	4.401	117	1177544	211.968	ug/L	97
27) Acrylonitrile	4.390	53	348687	193.013	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N13.D
 Acq On : 13 Jul 2023 10:28 pm
 Operator : VOA130:PID
 Sample : I8260STD200PPB
 Misc : WG1803303,ICAL
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 14 09:12:07 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Ethyl tert-butyl ether	4.584	59	4105012	219.026	ug/L	# 74
29) Vinyl acetate	4.590	43	1984473	243.152	ug/L	# 94
30) cis-1,2-Dichloroethene	4.873	96	1603103	199.911	ug/L	# 78
31) 2,2-Dichloropropane	4.983	77	1942435	203.047	ug/L	# 84
33) Bromochloromethane	5.067	128	810520	196.064	ug/L	# 54
34) Cyclohexane	5.082	56	2373704	211.668	ug/L	# 83
35) Chloroform	5.140	83	2479599	194.959	ug/L	# 95
36) Ethyl acetate	5.255	43	964162	189.286	ug/L	# 97
37) Carbon tetrachloride	5.287	117	2242340	219.189	ug/L	# 96
38) Tetrahydrofuran	5.292	42	294930M6	195.351	ug/L	# 91
40) 1,1,1-Trichloroethane	5.350	97	2309746	204.511	ug/L	# 96
42) 2-Butanone	5.434	43	411550	186.062	ug/L	# 89
43) 1,1-Dichloropropene	5.470	75	1836454	215.144	ug/L	# 98
45) Benzene	5.717	78	5214049	208.979	ug/L	# 93
46) tert-Amyl methyl ether	5.837	73	3446807	214.424	ug/L	# 98
48) 1,2-Dichloroethane	5.921	62	1767887	189.056	ug/L	# 83
51) Methyl cyclohexane	6.320	83	2331839	222.414	ug/L	# 85
52) Trichloroethene	6.320	95	1605799	208.941	ug/L	# 82
54) Dibromomethane	6.755	93	855661	196.422	ug/L	# 96
55) 1,2-Dichloropropane	6.865	63	1387551	211.891	ug/L	# 82
57) 2-Chloroethyl vinyl ether	7.568	63	753147	214.752	ug/L	# 96
58) Bromodichloromethane	6.933	83	1966122	209.257	ug/L	# 88
61) 1,4-Dioxane	7.143	88	101133	1956.312	ug/L	# 87
62) cis-1,3-Dichloropropene	7.631	75	2179434	220.493	ug/L	# 96
65) Toluene	7.908	92	3418887	208.841	ug/L	# 79
66) 4-Methyl-2-pentanone	8.338	58	345941	211.881	ug/L	# 92
67) Tetrachloroethene	8.359	166	1671826	222.950	ug/L	# 84
69) trans-1,3-Dichloropropene	8.386	75	1907597	225.079	ug/L	# 72
71) Ethyl methacrylate	8.585	69	1283227	203.809	ug/L	# 92
72) 1,1,2-Trichloroethane	8.569	83	947018	215.195	ug/L	# 99
73) Chlorodibromomethane	8.784	129	1623770	231.197	ug/L	# 99
74) 1,3-Dichloropropane	8.899	76	1852732	212.547	ug/L	# 99
75) 1,2-Dibromoethane	9.062	107	1189153	219.428	ug/L	# 92
77) 2-Hexanone	9.350	43	598398	186.208	ug/L	# 88
78) Chlorobenzene	9.723	112	3971398	207.361	ug/L	# 92
79) Ethylbenzene	9.770	91	6470787	204.597	ug/L	# 97
80) 1,1,1,2-Tetrachloroethane	9.806	131	1626887	231.048	ug/L	# 81
81) p/m Xylene	9.959	106	5494851	420.610	ug/L	# 82
82) o Xylene	10.493	106	5437027	421.583	ug/L	# 91
83) Styrene	10.556	104	8848334	422.782	ug/L	#

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N13.D
 Acq On : 13 Jul 2023 10:28 pm
 Operator : VOA130:PID
 Sample : I8260STD200PPB
 Misc : WG1803303,ICAL
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 14 09:12:07 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
85) Bromoform	10.572	173	1045603	232.583	ug/L	98
87) Isopropylbenzene	10.866	105	6819591	202.010	ug/L	92
89) Bromobenzene	11.290	156	1887898	202.273	ug/L	99
90) n-Propylbenzene	11.343	91	7826878	201.967	ug/L #	87
91) 1,4-Dichlorobutane	11.348	55	1700467	192.407	ug/L	97
92) 1,1,2,2-Tetrachloroethane	11.416	83	1206553	206.505	ug/L #	99
93) 4-Ethyltoluene	11.469	105	6962462	208.733	ug/L	92
94) 2-Chlorotoluene	11.505	91	4751557M6	200.273	ug/L	
95) 1,3,5-Trimethylbenzene	11.568	105	6128532	219.537	ug/L	92
96) 1,2,3-Trichloropropane	11.558	75	973521	192.228	ug/L #	75
97) trans-1,4-Dichloro-2-b...	11.605	53	374397	198.774	ug/L #	87
98) 4-Chlorotoluene	11.689	91	4930698	202.576	ug/L #	83
99) tert-Butylbenzene	11.904	119	5272965	208.807	ug/L	89
102) 1,2,4-Trimethylbenzene	11.977	105	6050229	220.838	ug/L	91
103) sec-Butylbenzene	12.092	105	7328242	208.028	ug/L	87
104) p-Isopropyltoluene	12.245	119	6743788	217.739	ug/L	94
105) 1,3-Dichlorobenzene	12.302	146	3741157	206.572	ug/L	96
106) 1,4-Dichlorobenzene	12.397	146	3771209	207.819	ug/L	96
107) p-Diethylbenzene	12.617	119	4144497	229.585	ug/L	93
108) n-Butylbenzene	12.674	91	5372402	221.229	ug/L #	94
109) 1,2-Dichlorobenzene	12.816	146	3563702	206.787	ug/L	95
110) 1,2,4,5-Tetramethylben...	13.403	119	6308280	232.445	ug/L	92
111) 1,2-Dibromo-3-chloropr...	13.592	155	259859	216.239	ug/L	97
112) 1,3,5-Trichlorobenzene	13.629	180	2771095	232.375	ug/L	94
113) Hexachlorobutadiene	14.205	225	960251	234.630	ug/L	99
114) 1,2,4-Trichlorobenzene	14.226	180	2364761	222.496	ug/L	100
115) Naphthalene	14.515	128	4916689	203.291	ug/L	100
116) 1,2,3-Trichlorobenzene	14.683	180	2199964	217.693	ug/L	99

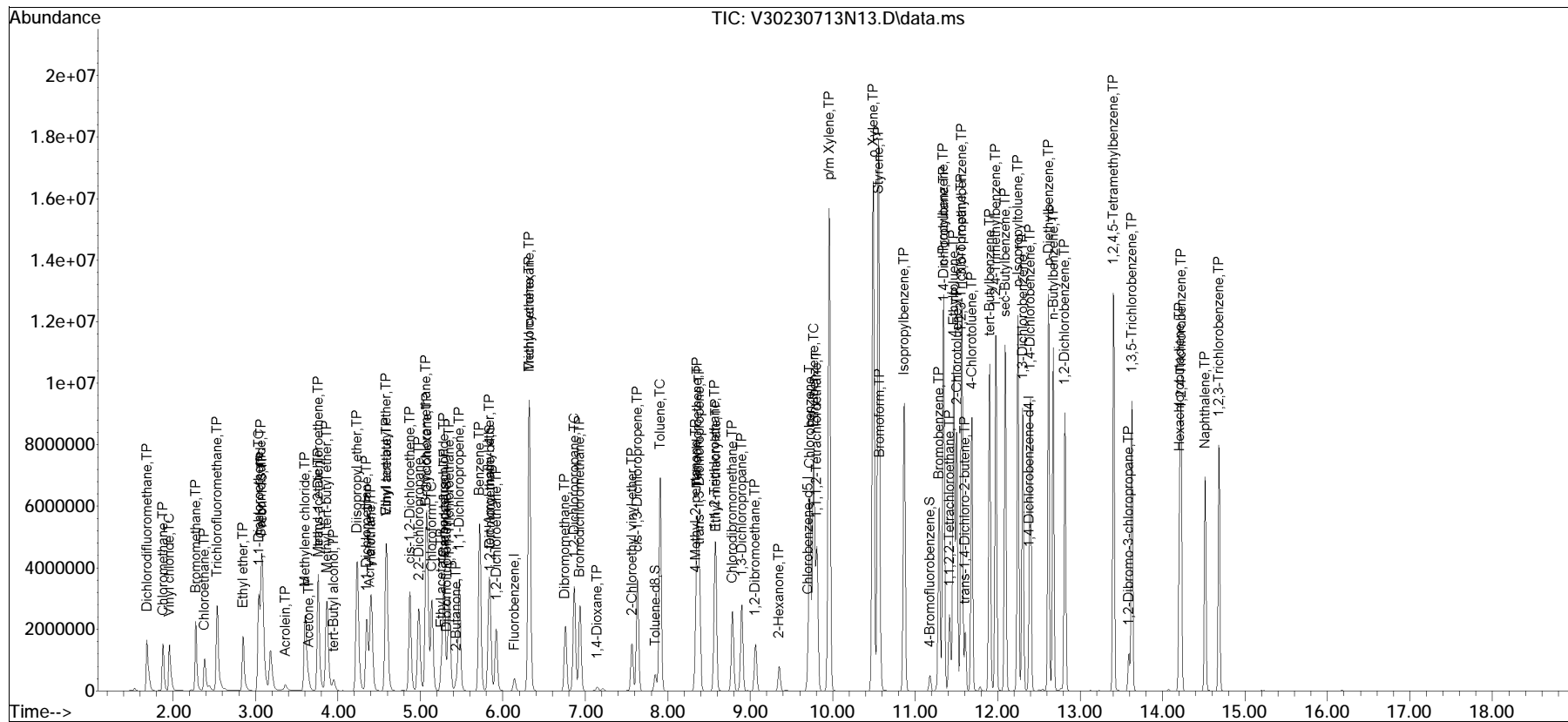
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N13.D
 Acq On : 13 Jul 2023 10:28 pm
 Operator : VOA130:PID
 Sample : I8260STD200PPB
 Misc : WG1803303,ICAL
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 14 09:12:07 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:10:37 2023
 Response via : Initial Calibration

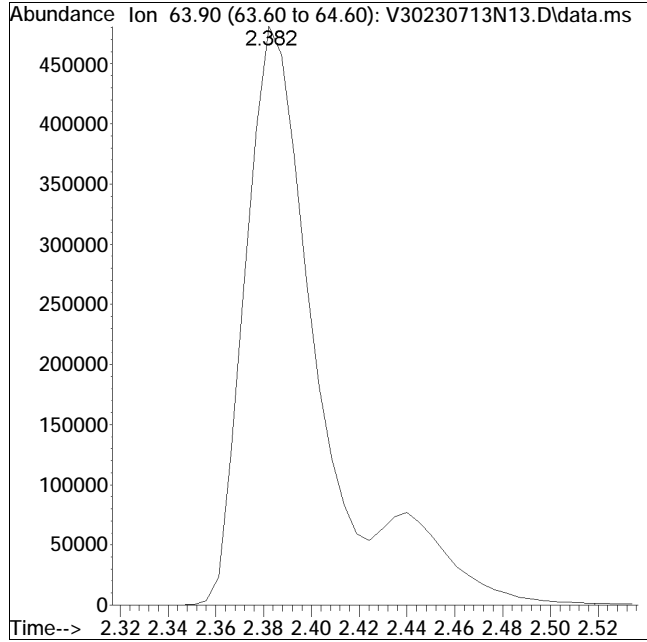
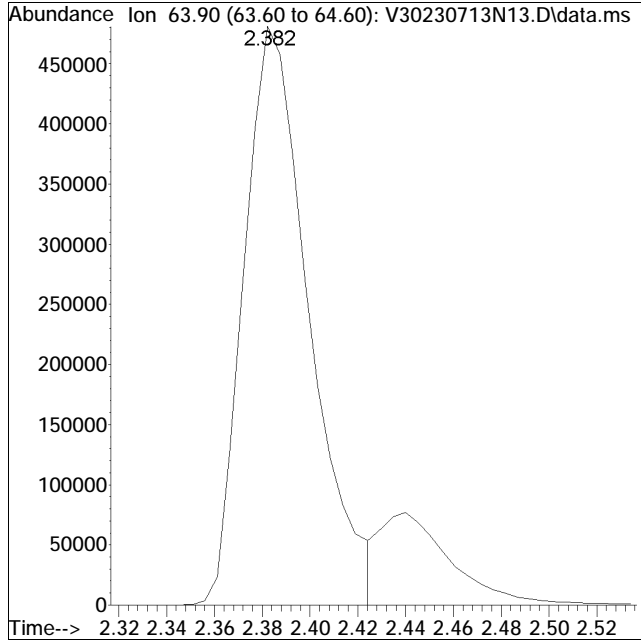
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N13.D Operator : VOA130:PID
Date Inj'd : 7/13/2023 10:28 pm Instrument : VOA130
Sample : I8260STD200PPB Quant Date : 7/14/2023 9:12 am

Compound #6: Chloroethane



Original Peak Response = 912829

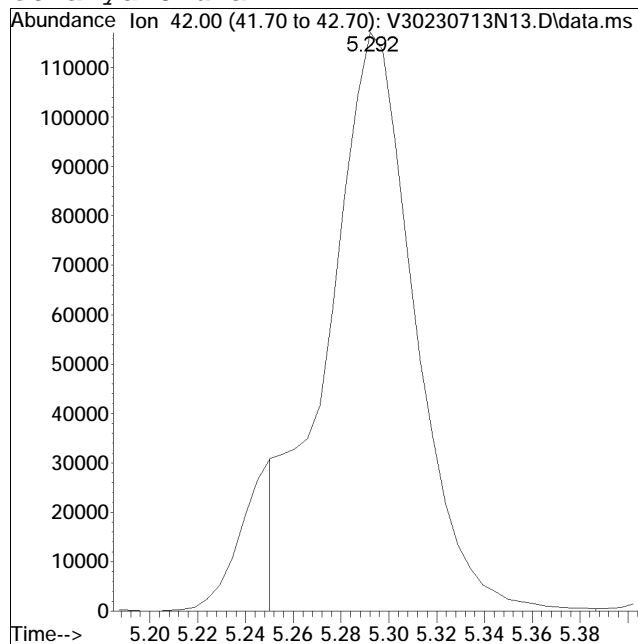
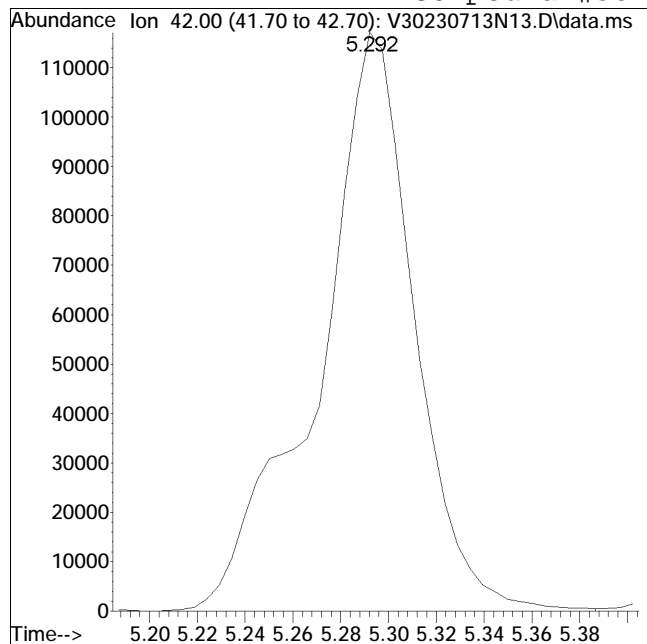
Manual Peak Response = 1071270 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N13.D Operator : VOA130:PID
Date Inj'd : 7/13/2023 10:28 pm Instrument : VOA130
Sample : I8260STD200PPB Quant Date : 7/14/2023 9:12 am

Compound #38: Tetrahydrofuran



Original Peak Response = 325170

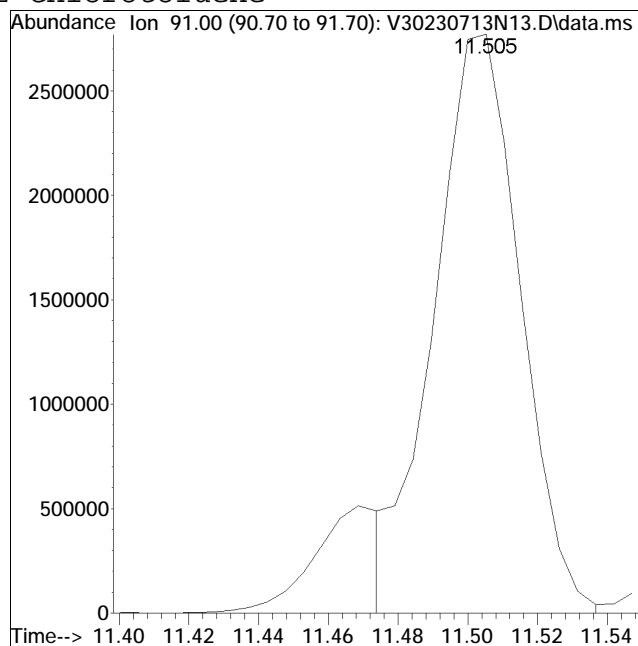
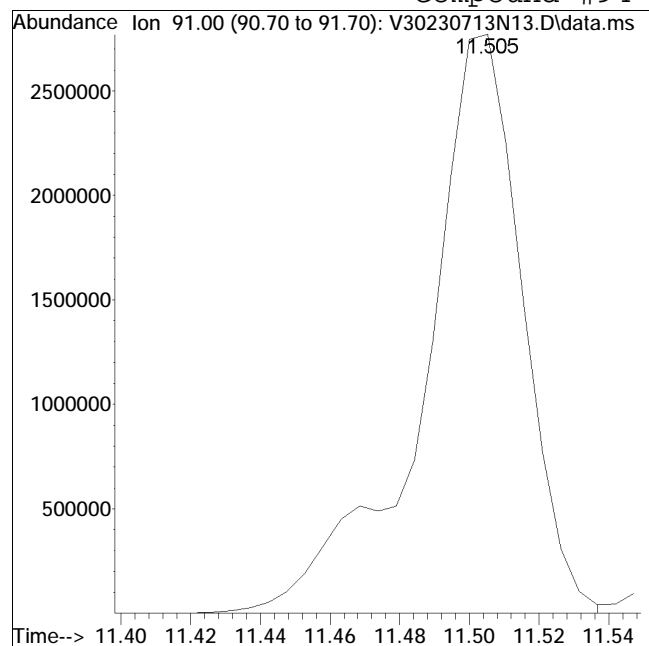
Manual Peak Response = 294930 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N13.D Operator : VOA130:PID
Date Inj'd : 7/13/2023 10:28 pm Instrument : VOA130
Sample : I8260STD200PPB Quant Date : 7/14/2023 9:12 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 5427613

Manual Peak Response = 4751557 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N18.D
 Acq On : 14 Jul 2023 12:18 am
 Operator : VOA130:PID
 Sample : C8260STD10PPB
 Misc : WG1803303,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 14 09:24:03 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	97	0.00
2 TP Dichlorodifluoromethane	0.206	0.161	21.8#	72	0.00
3 TP Chloromethane	0.188	0.184	2.1	92	0.00
4 TC Vinyl chloride	0.209	0.208	0.5	93	0.00
5 TP Bromomethane	0.127	0.133	-4.7	103	0.00
6 TP Chloroethane	0.132	0.139	-5.3	98	0.00
7 TP Trichlorofluoromethane	0.296	0.338	-14.2	103	0.00
8 TP Ethyl ether	0.088	0.089	-1.1	97	0.00
10 TC 1,1-Dichloroethene	0.149	0.159	-6.7	101	0.00
11 TP Carbon disulfide	0.401	0.369	8.0	90	0.00
12 TP Freon-113	0.159	0.172	-8.2	99	0.00
14 TP Acrolein	0.022	0.019	13.6	90	0.00
15 TP Methylene chloride	0.171	0.186	-8.8	105	0.00
17 TP Acetone	0.039	0.036	7.7	84	0.00
18 TP trans-1,2-Dichloroethene	0.167	0.179	-7.2	102	0.00
19 TP Methyl acetate	0.093	0.078	16.1	82	0.00
21 TP Methyl tert-butyl ether	0.388	0.340	12.4	87	0.00
22 TP tert-Butyl alcohol	0.01160	0.00974#	16.0	84	0.00
24 TP Diisopropyl ether	0.477	0.451	5.5	95	0.00
25 TP 1,1-Dichloroethane	0.301	0.332	-10.3	103	0.00
26 TP Halothane	0.133	0.149	-12.0	105	0.00
27 TP Acrylonitrile	0.043	0.043	0.0	91	0.00
28 TP Ethyl tert-butyl ether	0.448	0.407	9.2	92	0.00
29 TP Vinyl acetate	0.195	0.133	31.8#	78	0.00
30 TP cis-1,2-Dichloroethene	0.191	0.201	-5.2	100	0.00
31 TP 2,2-Dichloropropane	0.228	0.229	-0.4	98	0.00
33 TP Bromochloromethane	0.099	0.101	-2.0	97	0.00
34 TP Cyclohexane	0.268	0.285	-6.3	99	0.00
35 TC Chloroform	0.304	0.340	-11.8	104	0.00
36 TP Ethyl acetate	0.122	0.104	14.8	88	0.00
37 TP Carbon tetrachloride	0.244	0.274	-12.3	104	0.00
38 TP Tetrahydrofuran	0.036	0.035	2.8	93	0.00
39 S Dibromofluoromethane	0.305	0.314	-3.0	98	0.00
40 TP 1,1,1-Trichloroethane	0.270	0.300	-11.1	102	0.00
42 TP 2-Butanone	0.053	0.045	15.1	82	0.00
43 TP 1,1-Dichloropropene	0.204	0.212	-3.9	101	0.00
45 TP Benzene	0.596	0.623	-4.5	101	0.00
46 TP tert-Amyl methyl ether	0.384	0.341	11.2	90	0.00
47 S 1,2-Dichloroethane-d4	0.307	0.296	3.6	92	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N18.D
 Acq On : 14 Jul 2023 12:18 am
 Operator : VOA130:PID
 Sample : C8260STD10PPB
 Misc : WG1803303,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 14 09:24:03 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48 TP	1,2-Dichloroethane	0.223	0.232	-4.0	100	0.00
51 TP	Methyl cyclohexane	0.250	0.253	-1.2	99	0.00
52 TP	Trichloroethene	0.184	0.203	-10.3	106	0.00
54 TP	Dibromomethane	0.104	0.105	-1.0	98	0.00
55 TC	1,2-Dichloropropane	0.156	0.165	-5.8	102	0.00
57 TP	2-Chloroethyl vinyl ether	0.084	0.074	11.9	91	0.00
58 TP	Bromodichloromethane	0.224	0.235#	-4.9	100	0.00
61 TP	1,4-Dioxane	0.00123	0.00123#	0.0	96	0.00
62 TP	cis-1,3-Dichloropropene	0.236	0.240#	-1.7	102	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64 S	Toluene-d8	1.194	1.195	-0.1	98	0.00
65 TC	Toluene	0.463	0.485	-4.8	104	0.00
66 TP	4-Methyl-2-pentanone	0.046	0.038	17.4	82	0.00
67 TP	Tetrachloroethene	0.212	0.220	-3.8	103	0.00
69 TP	trans-1,3-Dichloropropene	0.240	0.231#	3.7	100	0.00
71 TP	Ethyl methacrylate	0.178	0.173	2.8	96	0.00
72 TP	1,1,2-Trichloroethane	0.124	0.117#	5.6	95	0.00
73 TP	Chlorodibromomethane	0.199	0.191#	4.0	100	0.00
74 TP	1,3-Dichloropropane	0.246	0.236	4.1	96	0.00
75 TP	1,2-Dibromoethane	0.153	0.142#	7.2	95	0.00
77 TP	2-Hexanone	0.091	0.076	16.5	86	0.00
78 T	Chlorobenzene	0.542	0.588	-8.5	107	0.00
79 TC	Ethylbenzene	0.894	0.961	-7.5	103	0.00
80 T	1,1,1,2-Tetrachloroethane	0.199	0.189	5.0	99	0.00
81 TP	p/m Xylene	0.369	0.398	-7.9	104	0.00
82 TP	o Xylene	0.365	0.379	-3.8	101	0.00
83 TP	Styrene	0.592	0.629	-6.3	103	0.00
84 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
85 TP	Bromoform	0.202	0.189	6.4	100	0.00
87 TP	Isopropylbenzene	1.515	1.634	-7.9	102	0.00
88 S	4-Bromofluorobenzene	0.798	0.806	-1.0	99	0.00
89 TP	Bromobenzene	0.419	0.440	-5.0	104	0.00
90 TP	n-Propylbenzene	1.739	1.916	-10.2	104	0.00
91 TP	1,4-Dichlorobutane	0.397	0.394	0.8	98	0.00
92 TP	1,1,2,2-Tetrachloroethane	0.262	0.219	16.4	85	0.00
93 TP	4-Ethyltoluene	1.497	1.577	-5.3	100	0.00
94 TP	2-Chlorotoluene	1.064	1.152	-8.3	103	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N18.D
 Acq On : 14 Jul 2023 12:18 am
 Operator : VOA130:PID
 Sample : C8260STD10PPB
 Misc : WG1803303,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 14 09:24:03 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
95 TP	1,3,5-Trimethylbenzene	1.252	1.272	-1.6	100	0.00
96 TP	1,2,3-Trichloropropane	0.227	0.204	10.1	88	0.00
97 TP	trans-1,4-Dichloro-2-butene	0.085	0.078	8.2	90	0.00
98 TP	4-Chlorotoluene	1.092	1.183	-8.3	104	0.00
99 TP	tert-Butylbenzene	1.133	1.230	-8.6	103	0.00
102 TP	1,2,4-Trimethylbenzene	1.229	1.277	-3.9	104	0.00
103 TP	sec-Butylbenzene	1.581	1.708	-8.0	102	0.00
104 TP	p-Isopropyltoluene	1.390	1.460	-5.0	102	0.00
105 TP	1,3-Dichlorobenzene	0.813	0.874	-7.5	105	0.00
106 TP	1,4-Dichlorobenzene	0.814	0.832	-2.2	99	0.00
107 TP	p-Diethylbenzene	0.810	0.740	8.6	92	0.00
108 TP	n-Butylbenzene	1.090	1.155	-6.0	104	0.00
109 TP	1,2-Dichlorobenzene	0.773	0.822	-6.3	104	0.00
110 TP	1,2,4,5-Tetramethylbenzene	1.218	1.124	7.7	95	0.00
111 TP	1,2-Dibromo-3-chloropropane	0.054	0.051	5.6	98	0.00
112 TP	1,3,5-Trichlorobenzene	0.535	0.498	6.9	98	0.00
113 TP	Hexachlorobutadiene	0.184	0.178	3.3	99	0.00
114 TP	1,2,4-Trichlorobenzene	0.477	0.460	3.6	100	0.00
115 TP	Naphthalene	1.085	1.029	5.2	95	0.00
116 TP	1,2,3-Trichlorobenzene	0.453	0.452	0.2	101	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 8 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N18.D
 Acq On : 14 Jul 2023 12:18 am
 Operator : VOA130:PID
 Sample : C8260STD10PPB
 Misc : WG1803303,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 14 09:24:03 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.141	96	342809	10.000	ug/L	0.00
Standard Area 1 = 352413			Recovery =	97.27%		
63) Chlorobenzene-d5	9.702	117	303174	10.000	ug/L	# 0.00
Standard Area 1 = 306855			Recovery =	98.80%		
84) 1,4-Dichlorobenzene-d4	12.381	152	179718	10.000	ug/L	0.00
Standard Area 1 = 183999			Recovery =	97.67%		
System Monitoring Compounds						
39) Dibromofluoromethane	5.318	113	107504	10.273	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.73%		
47) 1,2-Dichloroethane-d4	5.848	65	101401	9.643	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.43%		
64) Toluene-d8	7.846	98	362314	10.013	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.13%		
88) 4-Bromofluorobenzene	11.175	95	144915	10.102	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.02%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.685	85	55144	7.797	ug/L	96
3) Chloromethane	1.879	50	63104	9.769	ug/L	98
4) Vinyl chloride	1.958	62	71151	9.953	ug/L	100
5) Bromomethane	2.277	94	45722	10.510	ug/L	97
6) Chloroethane	2.398	64	47820	10.597	ug/L	99
7) Trichlorofluoromethane	2.545	101	115723	11.407	ug/L	98
8) Ethyl ether	2.849	74	30478	10.108	ug/L	91
10) 1,1-Dichloroethene	3.043	96	54400	10.630	ug/L	# 70
11) Carbon disulfide	3.069	76	126511	9.195	ug/L	98
12) Freon-113	3.085	101	58949	10.804	ug/L	# 77
14) Acrolein	3.357	56	6562	8.902	ug/L	93
15) Methylene chloride	3.604	84	63632	10.872	ug/L	85
17) Acetone	3.641	43	12331	9.289	ug/L	95
18) trans-1,2-Dichloroethene	3.761	96	61251	10.698	ug/L	79
19) Methyl acetate	3.761	43	26602	8.327	ug/L	# 84
21) Methyl tert-butyl ether	3.866	73	116579	8.767	ug/L	94
22) tert-Butyl alcohol	3.945	59	16703	42.009	ug/L	# 82
24) Diisopropyl ether	4.233	45	154589	9.458	ug/L	95
25) 1,1-Dichloroethane	4.348	63	113740	11.021	ug/L	# 97
26) Halothane	4.406	117	50963	11.208	ug/L	98
27) Acrylonitrile	4.390	53	14704	9.944	ug/L	# 94

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N18.D
 Acq On : 14 Jul 2023 12:18 am
 Operator : VOA130:PID
 Sample : C8260STD10PPB
 Misc : WG1803303,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 14 09:24:03 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Ethyl tert-butyl ether	4.584	59	139451	9.090	ug/L #	65
29) Vinyl acetate	4.584	43	45699	6.841	ug/L	98
30) cis-1,2-Dichloroethene	4.873	96	68865	10.491	ug/L #	79
31) 2,2-Dichloropropane	4.983	77	78650	10.044	ug/L	86
33) Bromochloromethane	5.067	128	34780	10.278	ug/L #	58
34) Cyclohexane	5.082	56	97774	10.652	ug/L	84
35) Chloroform	5.140	83	116631	11.203	ug/L	96
36) Ethyl acetate	5.250	43	35733	8.570	ug/L #	96
37) Carbon tetrachloride	5.287	117	93885	11.212	ug/L	99
38) Tetrahydrofuran	5.292	42	12113M6	9.802	ug/L	
40) 1,1,1-Trichloroethane	5.350	97	102931	11.134	ug/L	91
42) 2-Butanone	5.434	43	15459	8.538	ug/L	98
43) 1,1-Dichloropropene	5.470	75	72611	10.392	ug/L	90
45) Benzene	5.722	78	213418	10.450	ug/L	97
46) tert-Amyl methyl ether	5.832	73	117068	8.897	ug/L	95
48) 1,2-Dichloroethane	5.921	62	79463	10.382	ug/L #	98
51) Methyl cyclohexane	6.320	83	86666	10.099	ug/L	84
52) Trichloroethene	6.320	95	69610	11.065	ug/L #	86
54) Dibromomethane	6.760	93	35869	10.059	ug/L #	85
55) 1,2-Dichloropropane	6.865	63	56664	10.571	ug/L	95
57) 2-Chloroethyl vinyl ether	7.562	63	25246	8.795	ug/L #	83
58) Bromodichloromethane	6.933	83	80550	10.474	ug/L #	97
61) 1,4-Dioxane	7.143	88	21047	497.390	ug/L #	90
62) cis-1,3-Dichloropropene	7.631	75	82316	10.174	ug/L	89
65) Toluene	7.908	92	147032	10.477	ug/L	98
66) 4-Methyl-2-pentanone	8.338	58	11609	8.295	ug/L #	86
67) Tetrachloroethene	8.359	166	66728	10.381	ug/L	93
69) trans-1,3-Dichloropropene	8.386	75	69990	9.634	ug/L #	87
71) Ethyl methacrylate	8.585	69	52599	9.746	ug/L #	78
72) 1,1,2-Trichloroethane	8.569	83	35349	9.370	ug/L	92
73) Chlorodibromomethane	8.784	129	57968	9.628	ug/L	98
74) 1,3-Dichloropropane	8.894	76	71422	9.558	ug/L	100
75) 1,2-Dibromoethane	9.062	107	43067	9.271	ug/L	100
77) 2-Hexanone	9.350	43	22953	8.332	ug/L	96
78) Chlorobenzene	9.723	112	178119	10.849	ug/L	89
79) Ethylbenzene	9.764	91	291207	10.741	ug/L	93
80) 1,1,1,2-Tetrachloroethane	9.806	131	57412	9.512	ug/L	97
81) p/m Xylene	9.953	106	241072	21.527	ug/L	86
82) o Xylene	10.488	106	229561	20.765	ug/L	88
83) Styrene	10.551	104	381259	21.251	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N18.D
 Acq On : 14 Jul 2023 12:18 am
 Operator : VOA130:PID
 Sample : C8260STD10PPB
 Misc : WG1803303,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 14 09:24:03 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230713NICAL\V30230713N09.D
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
85) Bromoform	10.567	173	33959	9.368	ug/L	99
87) Isopropylbenzene	10.866	105	293638	10.787	ug/L	94
89) Bromobenzene	11.290	156	79124	10.514	ug/L	100
90) n-Propylbenzene	11.337	91	344312	11.019	ug/L	91
91) 1,4-Dichlorobutane	11.348	55	70741	9.927	ug/L	96
92) 1,1,2,2-Tetrachloroethane	11.416	83	39431	8.370	ug/L #	98
93) 4-Ethyltoluene	11.463	105	283395	10.537	ug/L	95
94) 2-Chlorotoluene	11.500	91	207056M6	10.823	ug/L	
95) 1,3,5-Trimethylbenzene	11.563	105	228680	10.159	ug/L	94
96) 1,2,3-Trichloropropane	11.552	75	36696	8.986	ug/L #	72
97) trans-1,4-Dichloro-2-b...	11.605	53	14084	9.274	ug/L	94
98) 4-Chlorotoluene	11.683	91	212605	10.833	ug/L #	85
99) tert-Butylbenzene	11.898	119	221034	10.855	ug/L	89
102) 1,2,4-Trimethylbenzene	11.977	105	229502	10.389	ug/L	94
103) sec-Butylbenzene	12.087	105	306947	10.806	ug/L	89
104) p-Isopropyltoluene	12.244	119	262444	10.509	ug/L	94
105) 1,3-Dichlorobenzene	12.302	146	157050	10.755	ug/L	96
106) 1,4-Dichlorobenzene	12.391	146	149442	10.213	ug/L	97
107) p-Diethylbenzene	12.611	119	132923	9.132	ug/L	93
108) n-Butylbenzene	12.669	91	207523	10.598	ug/L #	96
109) 1,2-Dichlorobenzene	12.816	146	147661	10.626	ug/L	96
110) 1,2,4,5-Tetramethylben...	13.403	119	202066	9.234	ug/L	94
111) 1,2-Dibromo-3-chloropr...	13.592	155	9241	9.537	ug/L	94
112) 1,3,5-Trichlorobenzene	13.623	180	89487	9.307	ug/L	93
113) Hexachlorobutadiene	14.205	225	32023	9.704	ug/L	98
114) 1,2,4-Trichlorobenzene	14.221	180	82610	9.640	ug/L	99
115) Naphthalene	14.515	128	185016	9.487	ug/L	100
116) 1,2,3-Trichlorobenzene	14.683	180	81145	9.958	ug/L	99

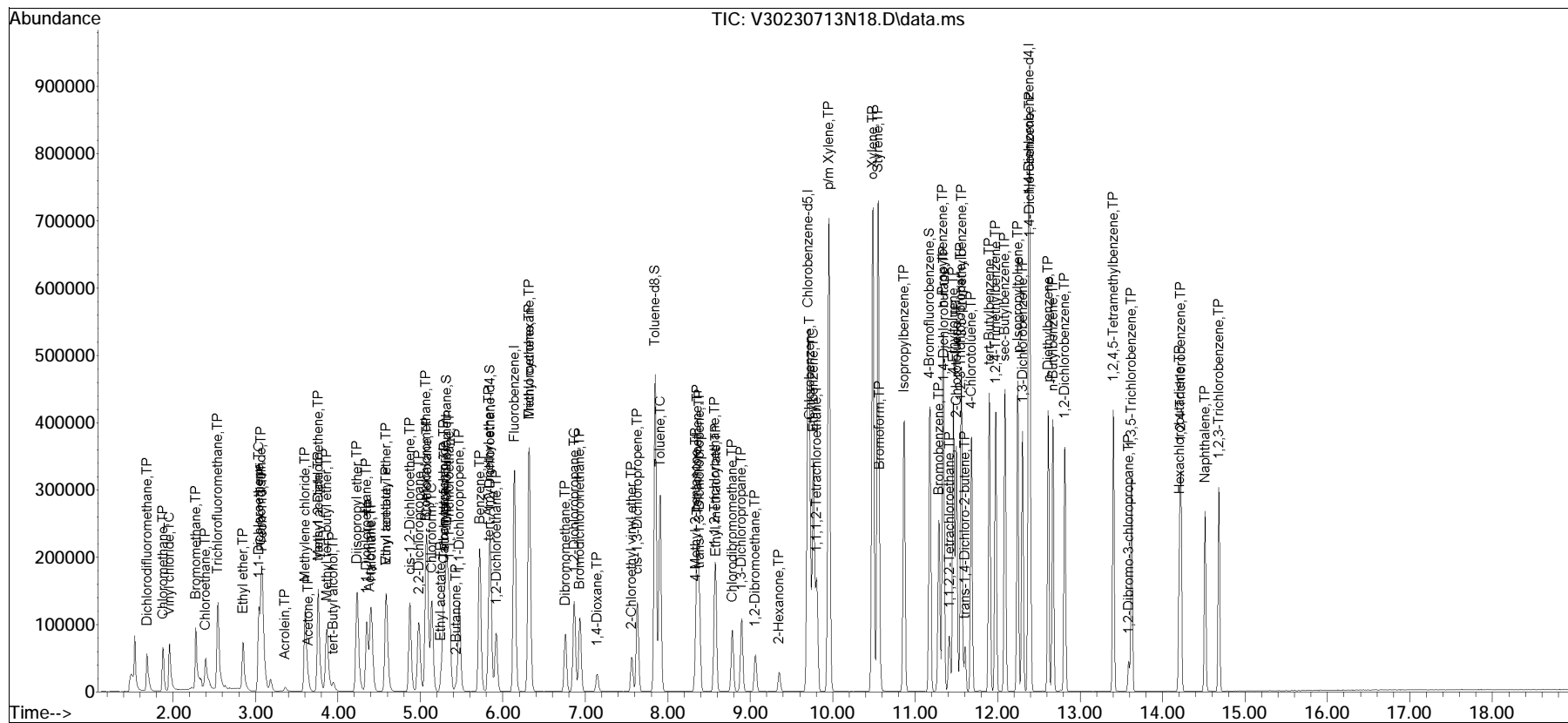
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230713NICAL\
 Data File : V30230713N18.D
 Acq On : 14 Jul 2023 12:18 am
 Operator : VOA130:PID
 Sample : C8260STD10PPB
 Misc : WG1803303,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 14 09:24:03 2023
 Quant Method : K:\VOA130\2023\230713NICAL\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

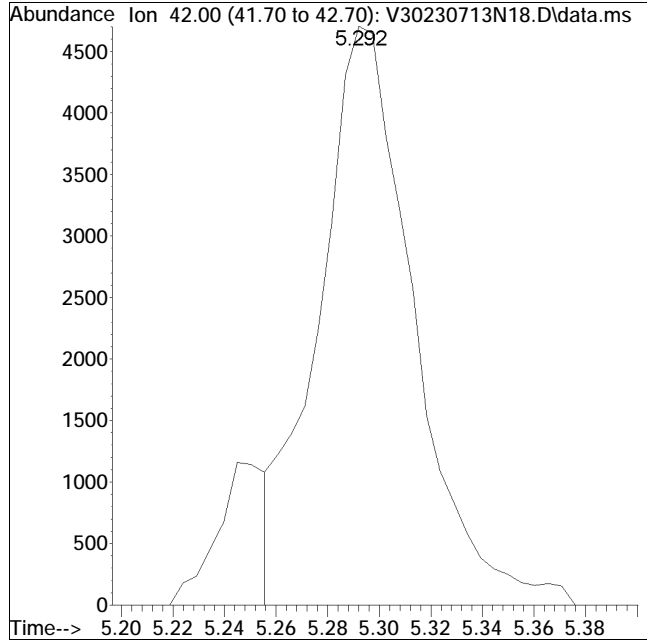
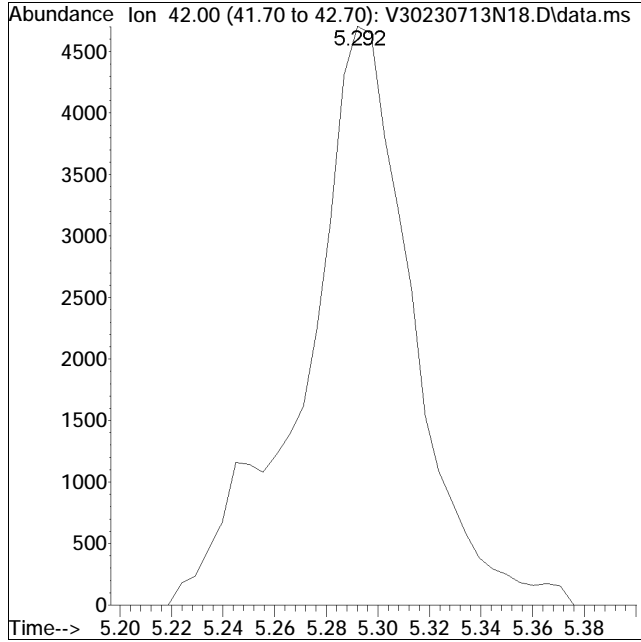
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N18.D Operator : VOA130:PID
Date Inj'd : 7/14/2023 12:18 am Instrument : VOA130
Sample : C8260STD10PPB Quant Date : 7/14/2023 9:23 am

Compound #38: Tetrahydrofuran



Original Peak Response = 13664

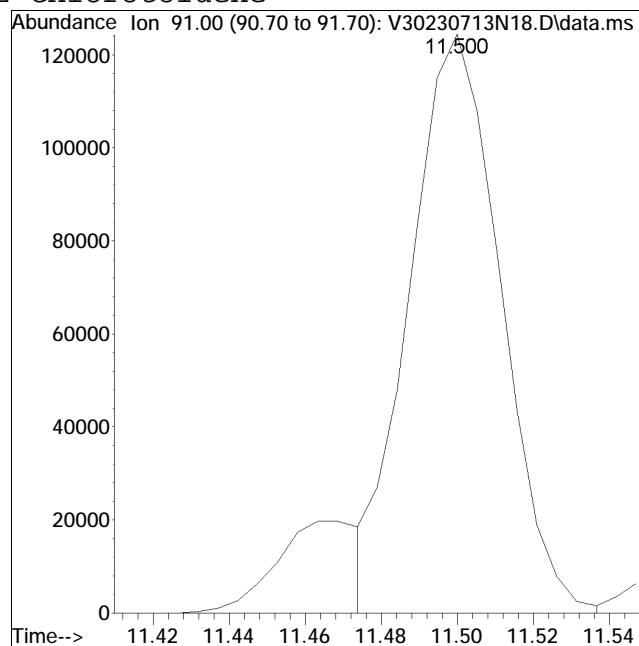
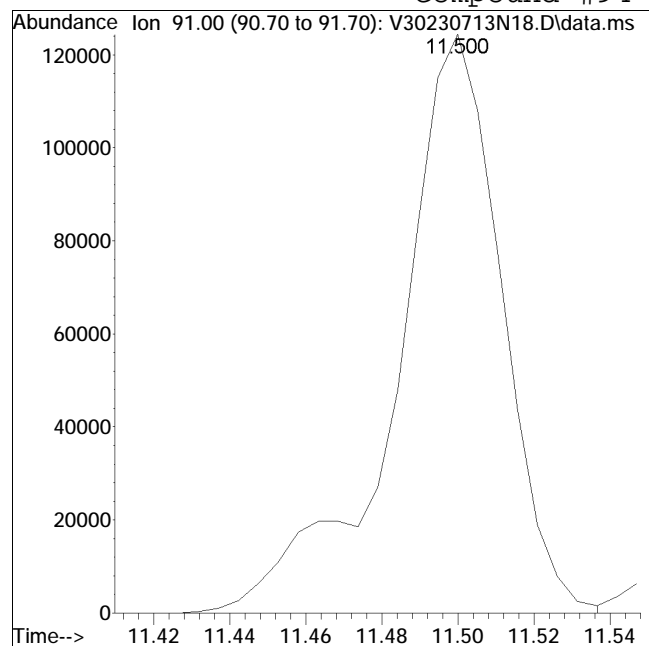
Manual Peak Response = 12113 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA130\2023\230713NICALQMethod : V130_230713N_8260D.m
Data File : V30230713N18.D Operator : VOA130:PID
Date Inj'd : 7/14/2023 12:18 am Instrument : VOA130
Sample : C8260STD10PPB Quant Date : 7/14/2023 9:23 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 237509

Manual Peak Response = 207056 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Continuing Calibration

Calibration Verification Summary

Form 7

Volatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : VOA130
 Lab File ID : V30230804A01
 Sample No : WG1811888-2
 Channel :

Lab Number : L2343170
 Project Number : 2230119
 Calibration Date : 08/04/23 06:51
 Init. Calib. Date(s) : 07/13/23 07/13/23
 Init. Calib. Times : 18:46 22:28

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	86	0
Dichlorodifluoromethane	0.206	0.184	-	10.7	20	72	0
Chloromethane	0.188	0.201	-	-6.9	20	88	0
Vinyl chloride	0.209	0.215	-	-2.9	20	85	0
Bromomethane	0.127	0.132	-	-3.9	20	90	0
Chloroethane	0.132	0.145	-	-9.8	20	90	0
Trichlorofluoromethane	0.296	0.307	-	-3.7	20	83	0
Ethyl ether	0.088	0.084	-	4.5	20	81	0
1,1-Dichloroethene	0.149	0.159	-	-6.7	20	90	0
Carbon disulfide	0.401	0.447	-	-11.5	20	96	0
Freon-113	0.159	0.176	-	-10.7	20	89	0
Acrolein	0.022	0.021	-	4.5	20	88	0
Methylene chloride	0.171	0.178	-	-4.1	20	89	0
Acetone	0.039	0.036	-	7.7	20	74	0
trans-1,2-Dichloroethene	0.167	0.182	-	-9	20	92	0
Methyl acetate	0.093	0.088	-	5.4	20	83	0
Methyl tert-butyl ether	0.388	0.351	-	9.5	20	80	0
tert-Butyl alcohol	0.0116	0.0083*	-	28.4*	20	63	0
Diisopropyl ether	0.477	0.492	-	-3.1	20	91	0
1,1-Dichloroethane	0.301	0.32	-	-6.3	20	88	0
Halothane	0.133	0.147	-	-10.5	20	92	0
Acrylonitrile	0.043	0.041	-	4.7	20	77	0
Ethyl tert-butyl ether	0.448	0.431	-	3.8	20	86	0
Vinyl acetate	0.195	0.268	-	-37.4*	20	139	0
cis-1,2-Dichloroethene	0.191	0.207	-	-8.4	20	91	0
2,2-Dichloropropane	0.228	0.261	-	-14.5	20	98	0
Bromochloromethane	0.099	0.108	-	-9.1	20	91	0
Cyclohexane	0.268	0.282	-	-5.2	20	87	0
Chloroform	0.304	0.322	-	-5.9	20	87	0
Ethyl acetate	0.122	0.104	-	14.8	20	78	0
Carbon tetrachloride	0.244	0.278	-	-13.9	20	93	0
Tetrahydrofuran	0.036	0.032	-	11.1	20	75	0
Dibromofluoromethane	0.305	0.334	-	-9.5	20	92	0
1,1,1-Trichloroethane	0.27	0.289	-	-7	20	87	0
2-Butanone	0.053	0.046	-	13.2	20	74	0
1,1-Dichloropropene	0.204	0.217	-	-6.4	20	91	0
Benzene	0.596	0.654	-	-9.7	20	94	0
tert-Amyl methyl ether	0.384	0.342	-	10.9	20	80	0
1,2-Dichloroethane-d4	0.307	0.303	-	1.3	20	83	0
1,2-Dichloroethane	0.223	0.217	-	2.7	20	82	0
Methyl cyclohexane	0.25	0.258	-	-3.2	20	89	0
Trichloroethene	0.184	0.19*	-	-3.3	20	87	0
Dibromomethane	0.104	0.104	-	0	20	85	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : VOA130
 Lab File ID : V30230804A01
 Sample No : WG1811888-2
 Channel :

Lab Number : L2343170
 Project Number : 2230119
 Calibration Date : 08/04/23 06:51
 Init. Calib. Date(s) : 07/13/23 07/13/23
 Init. Calib. Times : 18:46 22:28

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.156	0.169	-	-8.3	20	92	0
Bromodichloromethane	0.224	0.24*	-	-7.1	20	90	0
1,4-Dioxane	0.00123	0.00105*	-	14.6	20	72	0
cis-1,3-Dichloropropene	0.236	0.244*	-	-3.4	20	92	0
Chlorobenzene-d5	1	1	-	0	20	95	0
Toluene-d8	1.194	1.17	-	2	20	92	0
Toluene	0.463	0.445	-	3.9	20	91	0
4-Methyl-2-pentanone	0.046	0.033	-	28.3*	20	67	0
Tetrachloroethene	0.212	0.231	-	-9	20	103	0
trans-1,3-Dichloropropene	0.24	0.212*	-	11.7	20	88	0
Ethyl methacrylate	0.178	0.129	-	27.5*	20	69	0
1,1,2-Trichloroethane	0.124	0.108*	-	12.9	20	85	0
Chlorodibromomethane	0.199	0.185*	-	7	20	93	0
1,3-Dichloropropane	0.246	0.217	-	11.8	20	84	0
1,2-Dibromoethane	0.153	0.136*	-	11.1	20	87	0
2-Hexanone	0.091	0.056	-	38.5*	20	61	0
Chlorobenzene	0.542	0.535	-	1.3	20	94	0
Ethylbenzene	0.894	0.834	-	6.7	20	86	0
1,1,1,2-Tetrachloroethane	0.199	0.197	-	1	20	98	0
p/m Xylene	0.369	0.354	-	4.1	20	88	0
o Xylene	0.365	0.344	-	5.8	20	88	0
Styrene	0.592	0.568	-	4.1	20	89	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	101	0
Bromoform	0.202	0.174	-	13.9	20	95	0
Isopropylbenzene	1.515	1.343	-	11.4	20	86	0
4-Bromofluorobenzene	0.798	0.703	-	11.9	20	88	0
Bromobenzene	0.419	0.397	-	5.3	20	96	0
n-Propylbenzene	1.739	1.553	-	10.7	20	87	0
1,4-Dichlorobutane	0.397	0.318	-	19.9	20	81	0
1,1,2,2-Tetrachloroethane	0.262	0.228	-	13	20	91	0
4-Ethyltoluene	1.497	1.351	-	9.8	20	89	0
2-Chlorotoluene	1.064	0.959	-	9.9	20	88	0
1,3,5-Trimethylbenzene	1.252	1.134	-	9.4	20	92	0
1,2,3-Trichloropropane	0.227	0.177	-	22*	20	79	0
trans-1,4-Dichloro-2-buten	0.085	0.064	-	24.7*	20	76	0
4-Chlorotoluene	1.092	0.985	-	9.8	20	89	0
tert-Butylbenzene	1.133	1.02	-	10	20	88	.01
1,2,4-Trimethylbenzene	1.229	1.116	-	9.2	20	94	0
sec-Butylbenzene	1.581	1.43	-	9.6	20	88	.01
p-Isopropyltoluene	1.39	1.255	-	9.7	20	90	0
1,3-Dichlorobenzene	0.813	0.784	-	3.6	20	97	0
1,4-Dichlorobenzene	0.814	0.789	-	3.1	20	97	.01
p-Diethylbenzene	0.81	0.728	-	10.1	20	93	.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : VOA130
Lab File ID : V30230804A01
Sample No : WG1811888-2
Channel :

Lab Number : L2343170
Project Number : 2230119
Calibration Date : 08/04/23 06:51
Init. Calib. Date(s) : 07/13/23 07/13/23
Init. Calib. Times : 18:46 22:28

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	1.09	1.004	-	7.9	20	93	.01
1,2-Dichlorobenzene	0.773	0.723	-	6.5	20	94	0
1,2,4,5-Tetramethylbenzene	1.218	1.084	-	11	20	95	.01
1,2-Dibromo-3-chloropropan	0.054	0.04	-	25.9*	20	77	.02
1,3,5-Trichlorobenzene	0.535	0.555	-	-3.7	20	113	.01
Hexachlorobutadiene	0.184	0.193	-	-4.9	20	111	.01
1,2,4-Trichlorobenzene	0.477	0.468	-	1.9	20	105	.01
Naphthalene	1.085	0.838	-	22.8*	20	80	.01
1,2,3-Trichlorobenzene	0.453	0.432	-	4.6	20	100	.01

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A01.D
 Acq On : 04 Aug 2023 06:51 am
 Operator : VOA130:PID
 Sample : WG1811888-2
 Misc : WG1811888,ICAL20171
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 07:18:01 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	86	0.00
2 TP Dichlorodifluoromethane	0.206	0.184	10.7	72	0.00
3 TP Chloromethane	0.188	0.201	-6.9	88	0.00
4 TC Vinyl chloride	0.209	0.215	-2.9	85	0.00
5 TP Bromomethane	0.127	0.132	-3.9	90	0.00
6 TP Chloroethane	0.132	0.145	-9.8	90	0.00
7 TP Trichlorofluoromethane	0.296	0.307	-3.7	83	0.00
8 TP Ethyl ether	0.088	0.084	4.5	81	0.00
10 TC 1,1-Dichloroethene	0.149	0.159	-6.7	90	0.00
11 TP Carbon disulfide	0.401	0.447	-11.5	96	0.00
12 TP Freon-113	0.159	0.176	-10.7	89	0.00
14 TP Acrolein	0.022	0.021	4.5	88	0.00
15 TP Methylene chloride	0.171	0.178	-4.1	89	0.00
17 TP Acetone	0.039	0.036	7.7	74	0.00
18 TP trans-1,2-Dichloroethene	0.167	0.182	-9.0	92	0.00
19 TP Methyl acetate	0.093	0.088	5.4	83	0.00
21 TP Methyl tert-butyl ether	0.388	0.351	9.5	80	0.00
22 TP tert-Butyl alcohol	0.01160	0.00830#	28.4#	63	0.00
24 TP Diisopropyl ether	0.477	0.492	-3.1	91	0.00
25 TP 1,1-Dichloroethane	0.301	0.320	-6.3	88	0.00
26 TP Halothane	0.133	0.147	-10.5	92	0.00
27 TP Acrylonitrile	0.043	0.041	4.7	77	0.00
28 TP Ethyl tert-butyl ether	0.448	0.431	3.8	86	0.00
29 TP Vinyl acetate	0.195	0.268	-37.4#	139	0.00
30 TP cis-1,2-Dichloroethene	0.191	0.207	-8.4	91	0.00
31 TP 2,2-Dichloropropane	0.228	0.261	-14.5	98	0.00
33 TP Bromochloromethane	0.099	0.108	-9.1	91	0.00
34 TP Cyclohexane	0.268	0.282	-5.2	87	0.00
35 TC Chloroform	0.304	0.322	-5.9	87	0.00
36 TP Ethyl acetate	0.122	0.104	14.8	78	0.00
37 TP Carbon tetrachloride	0.244	0.278	-13.9	93	0.00
38 TP Tetrahydrofuran	0.036	0.032	11.1	75	0.00
39 S Dibromofluoromethane	0.305	0.334	-9.5	92	0.00
40 TP 1,1,1-Trichloroethane	0.270	0.289	-7.0	87	0.00
42 TP 2-Butanone	0.053	0.046	13.2	74	0.00
43 TP 1,1-Dichloropropene	0.204	0.217	-6.4	91	0.00
45 TP Benzene	0.596	0.654	-9.7	94	0.00
46 TP tert-Amyl methyl ether	0.384	0.342	10.9	80	0.00
47 S 1,2-Dichloroethane-d4	0.307	0.303	1.3	83	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A01.D
 Acq On : 04 Aug 2023 06:51 am
 Operator : VOA130:PID
 Sample : WG1811888-2
 Misc : WG1811888,ICAL20171
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 07:18:01 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48 TP	1,2-Dichloroethane	0.223	0.217	2.7	82	0.00
51 TP	Methyl cyclohexane	0.250	0.258	-3.2	89	0.00
52 TP	Trichloroethene	0.184	0.190#	-3.3	87	0.00
54 TP	Dibromomethane	0.104	0.104	0.0	85	0.00
55 TC	1,2-Dichloropropane	0.156	0.169	-8.3	92	0.00
58 TP	Bromodichloromethane	0.224	0.240#	-7.1	90	0.00
61 TP	1,4-Dioxane	0.00123	0.00105#	14.6	72	0.00
62 TP	cis-1,3-Dichloropropene	0.236	0.244#	-3.4	92	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
64 S	Toluene-d8	1.194	1.170	2.0	92	0.00
65 TC	Toluene	0.463	0.445	3.9	91	0.00
66 TP	4-Methyl-2-pentanone	0.046	0.033	28.3#	67	0.00
67 TP	Tetrachloroethene	0.212	0.231	-9.0	103	0.00
69 TP	trans-1,3-Dichloropropene	0.240	0.212#	11.7	88	0.00
71 TP	Ethyl methacrylate	0.178	0.129	27.5#	69	0.00
72 TP	1,1,2-Trichloroethane	0.124	0.108#	12.9	85	0.00
73 TP	Chlorodibromomethane	0.199	0.185#	7.0	93	0.00
74 TP	1,3-Dichloropropane	0.246	0.217	11.8	84	0.00
75 TP	1,2-Dibromoethane	0.153	0.136#	11.1	87	0.00
77 TP	2-Hexanone	0.091	0.056	38.5#	61	0.00
78 T	Chlorobenzene	0.542	0.535	1.3	94	0.00
79 TC	Ethylbenzene	0.894	0.834	6.7	86	0.00
80 T	1,1,1,2-Tetrachloroethane	0.199	0.197	1.0	98	0.00
81 TP	p/m Xylene	0.369	0.354	4.1	88	0.00
82 TP	o Xylene	0.365	0.344	5.8	88	0.00
83 TP	Styrene	0.592	0.568	4.1	89	0.00
84 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
85 TP	Bromoform	0.202	0.174	13.9	95	0.00
87 TP	Isopropylbenzene	1.515	1.343	11.4	86	0.00
88 S	4-Bromofluorobenzene	0.798	0.703	11.9	88	0.00
89 TP	Bromobenzene	0.419	0.397	5.3	96	0.00
90 TP	n-Propylbenzene	1.739	1.553	10.7	87	0.00
91 TP	1,4-Dichlorobutane	0.397	0.318	19.9	81	0.00
92 TP	1,1,2,2-Tetrachloroethane	0.262	0.228	13.0	91	0.00
93 TP	4-Ethyltoluene	1.497	1.351	9.8	89	0.00
94 TP	2-Chlorotoluene	1.064	0.959	9.9	88	0.00
95 TP	1,3,5-Trimethylbenzene	1.252	1.134	9.4	92	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A01.D
 Acq On : 04 Aug 2023 06:51 am
 Operator : VOA130:PID
 Sample : WG1811888-2
 Misc : WG1811888,ICAL20171
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 07:18:01 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 TP	1,2,3-Trichloropropane	0.227	0.177	22.0#	79	0.00
97 TP	trans-1,4-Dichloro-2-butene	0.085	0.064	24.7#	76	0.00
98 TP	4-Chlorotoluene	1.092	0.985	9.8	89	0.00
99 TP	tert-Butylbenzene	1.133	1.020	10.0	88	0.01
102 TP	1,2,4-Trimethylbenzene	1.229	1.116	9.2	94	0.00
103 TP	sec-Butylbenzene	1.581	1.430	9.6	88	0.01
104 TP	p-Isopropyltoluene	1.390	1.255	9.7	90	0.00
105 TP	1,3-Dichlorobenzene	0.813	0.784	3.6	97	0.00
106 TP	1,4-Dichlorobenzene	0.814	0.789	3.1	97	0.01
107 TP	p-Diethylbenzene	0.810	0.728	10.1	93	0.01
108 TP	n-Butylbenzene	1.090	1.004	7.9	93	0.01
109 TP	1,2-Dichlorobenzene	0.773	0.723	6.5	94	0.00
110 TP	1,2,4,5-Tetramethylbenzene	1.218	1.084	11.0	95	0.01
111 TP	1,2-Dibromo-3-chloropropane	0.054	0.040	25.9#	77	0.02
112 TP	1,3,5-Trichlorobenzene	0.535	0.555	-3.7	113	0.01
113 TP	Hexachlorobutadiene	0.184	0.193	-4.9	111	0.01
114 TP	1,2,4-Trichlorobenzene	0.477	0.468	1.9	105	0.01
115 TP	Naphthalene	1.085	0.838	22.8#	80	0.01
116 TP	1,2,3-Trichlorobenzene	0.453	0.432	4.6	100	0.01

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 9 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A01.D
 Acq On : 04 Aug 2023 06:51 am
 Operator : VOA130:PID
 Sample : WG1811888-2
 Misc : WG1811888,ICAL20171
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 07:18:01 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.141	96	302647	10.000	ug/L	# 0.00
63) Chlorobenzene-d5	9.707	117	290495	10.000	ug/L	# 0.00
84) 1,4-Dichlorobenzene-d4	12.386	152	184997	10.000	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	5.323	113	101147	10.948	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	109.48%	
47) 1,2-Dichloroethane-d4	5.853	65	91617	9.869	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	98.69%	
64) Toluene-d8	7.851	98	339801	9.800	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	98.00%	
88) 4-Bromofluorobenzene	11.180	95	130055	8.807	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	88.07%	
Target Compounds						
2) Dichlorodifluoromethane	1.685	85	55559	8.898	ug/L	96
3) Chloromethane	1.879	50	60761	10.654	ug/L	98
4) Vinyl chloride	1.957	62	65101	10.315	ug/L	99
5) Bromomethane	2.277	94	39983	10.411	ug/L	99
6) Chloroethane	2.398	64	43880	11.015	ug/L	99
7) Trichlorofluoromethane	2.545	101	92804	10.362	ug/L	99
8) Ethyl ether	2.849	74	25573	9.607	ug/L	94
10) 1,1-Dichloroethene	3.043	96	48268	10.684	ug/L	# 71
11) Carbon disulfide	3.069	76	135313	11.139	ug/L	98
12) Freon-113	3.085	101	53151	11.034	ug/L	# 70
14) Acrolein	3.363	56	6430	9.881	ug/L	97
15) Methylene chloride	3.604	84	53788	10.410	ug/L	87
17) Acetone	3.640	43	10797	9.213	ug/L	97
18) trans-1,2-Dichloroethene	3.761	96	54979	10.877	ug/L	78
19) Methyl acetate	3.766	43	26767	9.490	ug/L	# 91
21) Methyl tert-butyl ether	3.866	73	106302	9.055	ug/L	96
22) tert-Butyl alcohol	3.945	59	12567	35.801	ug/L	97
24) Diisopropyl ether	4.233	45	148979	10.325	ug/L	95
25) 1,1-Dichloroethane	4.353	63	96789	10.623	ug/L	98
26) Halothane	4.406	117	44635	11.119	ug/L	97
27) Acrylonitrile	4.385	53	12478	9.558	ug/L	# 92
28) Ethyl tert-butyl ether	4.584	59	130311	9.621	ug/L	83
29) Vinyl acetate	4.589	43	81122	13.755	ug/L	# 95
30) cis-1,2-Dichloroethene	4.873	96	62513	10.788	ug/L	# 78
31) 2,2-Dichloropropane	4.983	77	78886	11.411	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A01.D
 Acq On : 04 Aug 2023 06:51 am
 Operator : VOA130:PID
 Sample : WG1811888-2
 Misc : WG1811888,ICAL20171
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 07:18:01 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) Bromochloromethane	5.072	128	32536	10.891	ug/L #	55
34) Cyclohexane	5.082	56	85439	10.543	ug/L	85
35) Chloroform	5.140	83	97511	10.609	ug/L	95
36) Ethyl acetate	5.255	43	31604	8.586	ug/L #	96
37) Carbon tetrachloride	5.287	117	84215	11.392	ug/L	98
38) Tetrahydrofuran	5.297	42	9760M6	8.946	ug/L	
40) 1,1,1-Trichloroethane	5.355	97	87494	10.720	ug/L	91
42) 2-Butanone	5.434	43	13846	8.662	ug/L #	85
43) 1,1-Dichloropropene	5.476	75	65821	10.671	ug/L #	89
45) Benzene	5.722	78	197848	10.973	ug/L	98
46) tert-Amyl methyl ether	5.837	73	103609	8.919	ug/L	92
48) 1,2-Dichloroethane	5.921	62	65706	9.723	ug/L #	97
51) Methyl cyclohexane	6.320	83	78133	10.313	ug/L	88
52) Trichloroethene	6.325	95	57362	10.328	ug/L #	82
54) Dibromomethane	6.760	93	31388	9.971	ug/L #	78
55) 1,2-Dichloropropane	6.870	63	51083	10.795	ug/L	95
58) Bromodichloromethane	6.938	83	72608	10.694	ug/L #	99
61) 1,4-Dioxane	7.148	88	15924	426.260	ug/L #	90
62) cis-1,3-Dichloropropene	7.636	75	73873	10.342	ug/L	89
65) Toluene	7.908	92	129287	9.615	ug/L	98
66) 4-Methyl-2-pentanone	8.344	58	9513	7.094	ug/L #	85
67) Tetrachloroethene	8.364	166	67154	10.903	ug/L #	89
69) trans-1,3-Dichloropropene	8.385	75	61633	8.854	ug/L #	86
71) Ethyl methacrylate	8.585	69	37602	7.271	ug/L #	60
72) 1,1,2-Trichloroethane	8.574	83	31364	8.677	ug/L	89
73) Chlorodibromomethane	8.789	129	53747	9.317	ug/L	98
74) 1,3-Dichloropropane	8.899	76	63025	8.803	ug/L	99
75) 1,2-Dibromoethane	9.067	107	39637	8.905	ug/L	98
77) 2-Hexanone	9.355	43	16393	6.211	ug/L	100
78) Chlorobenzene	9.728	112	155449	9.882	ug/L #	87
79) Ethylbenzene	9.770	91	242228	9.325	ug/L	93
80) 1,1,1,2-Tetrachloroethane	9.812	131	57357	9.917	ug/L	95
81) p/m Xylene	9.958	106	205492	19.151	ug/L	85
82) o Xylene	10.493	106	200062	18.886	ug/L	85
83) Styrene	10.556	104	329948	19.194	ug/L	86
85) Bromoform	10.572	173	32154	8.617	ug/L	96
87) Isopropylbenzene	10.871	105	248373	8.864	ug/L	92
89) Bromobenzene	11.295	156	73369	9.471	ug/L	100
90) n-Propylbenzene	11.343	91	287225	8.930	ug/L #	89
91) 1,4-Dichlorobutane	11.353	55	58770	8.012	ug/L	99
92) 1,1,2,2-Tetrachloroethane	11.421	83	42118	8.685	ug/L #	98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A01.D
 Acq On : 04 Aug 2023 06:51 am
 Operator : VOA130:PID
 Sample : WG1811888-2
 Misc : WG1811888,ICAL20171
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 07:18:01 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

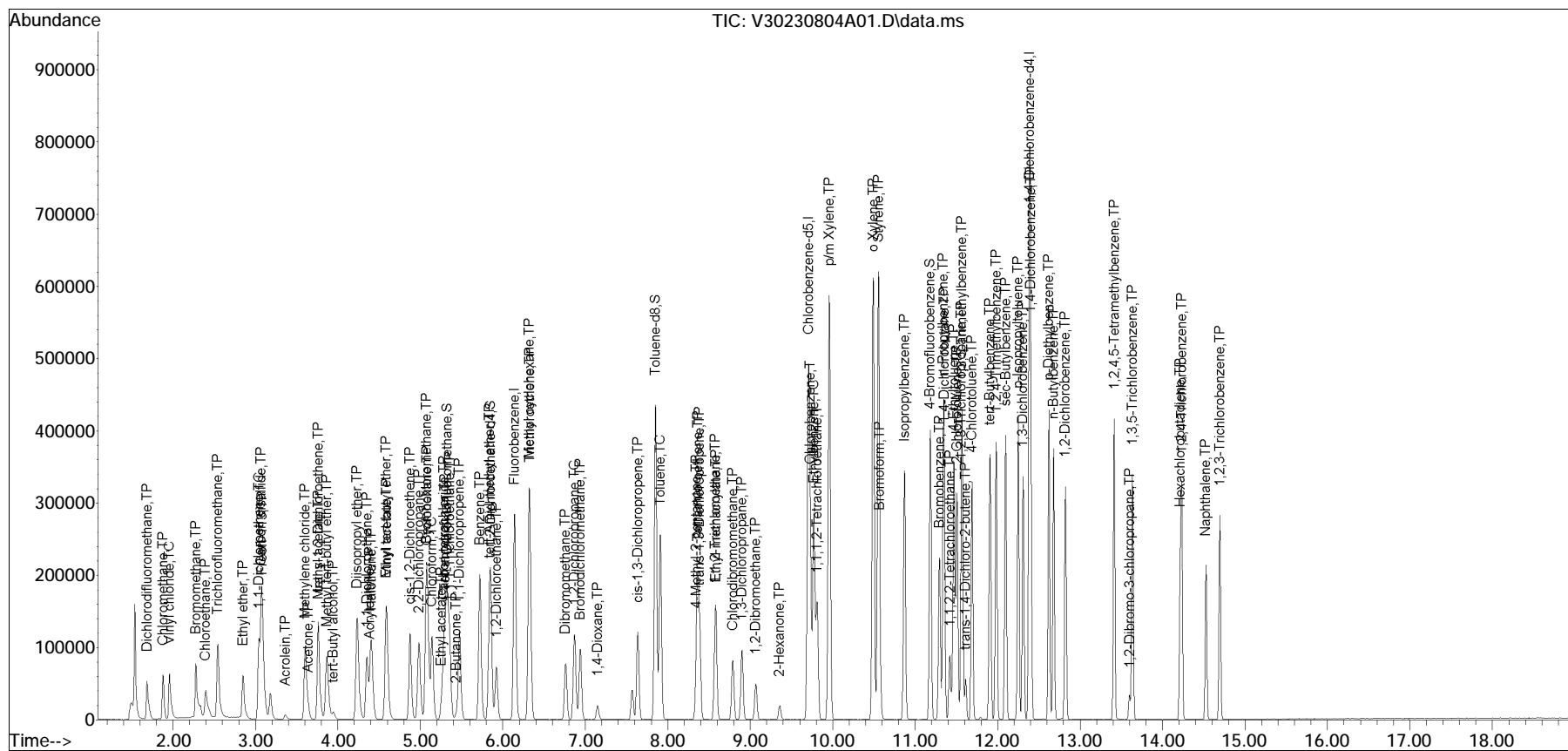
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 4-Ethyltoluene	11.468	105	249943	9.028	ug/L	93
94) 2-Chlorotoluene	11.505	91	177340M6	9.006	ug/L	
95) 1,3,5-Trimethylbenzene	11.568	105	209825	9.056	ug/L	92
96) 1,2,3-Trichloropropane	11.558	75	32826	7.809	ug/L #	77
97) trans-1,4-Dichloro-2-b...	11.610	53	11773	7.531	ug/L #	91
98) 4-Chlorotoluene	11.689	91	182241	9.021	ug/L #	83
99) tert-Butylbenzene	11.909	119	188708	9.003	ug/L	86
102) 1,2,4-Trimethylbenzene	11.982	105	206511	9.082	ug/L	92
103) sec-Butylbenzene	12.098	105	264612	9.050	ug/L	88
104) p-Isopropyltoluene	12.250	119	232248	9.034	ug/L	93
105) 1,3-Dichlorobenzene	12.307	146	145032	9.648	ug/L	95
106) 1,4-Dichlorobenzene	12.402	146	145882	9.686	ug/L	96
107) p-Diethylbenzene	12.622	119	134728	8.992	ug/L	91
108) n-Butylbenzene	12.680	91	185649	9.211	ug/L #	94
109) 1,2-Dichlorobenzene	12.821	146	133763	9.351	ug/L	94
110) 1,2,4,5-Tetramethylben...	13.414	119	200567	8.904	ug/L	93
111) 1,2-Dibromo-3-chloropr...	13.602	155	7326	7.345	ug/L	98
112) 1,3,5-Trichlorobenzene	13.634	180	102625	10.368	ug/L #	93
113) Hexachlorobutadiene	14.216	225	35687	10.506	ug/L	99
114) 1,2,4-Trichlorobenzene	14.232	180	86567	9.813	ug/L	98
115) Naphthalene	14.525	128	155093	7.726	ug/L	100
116) 1,2,3-Trichlorobenzene	14.693	180	80003	9.538	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A01.D
 Acq On : 04 Aug 2023 06:51 am
 Operator : VOA130:PID
 Sample : WG1811888-2
 Misc : WG1811888,ICAL20171
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 07:18:01 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

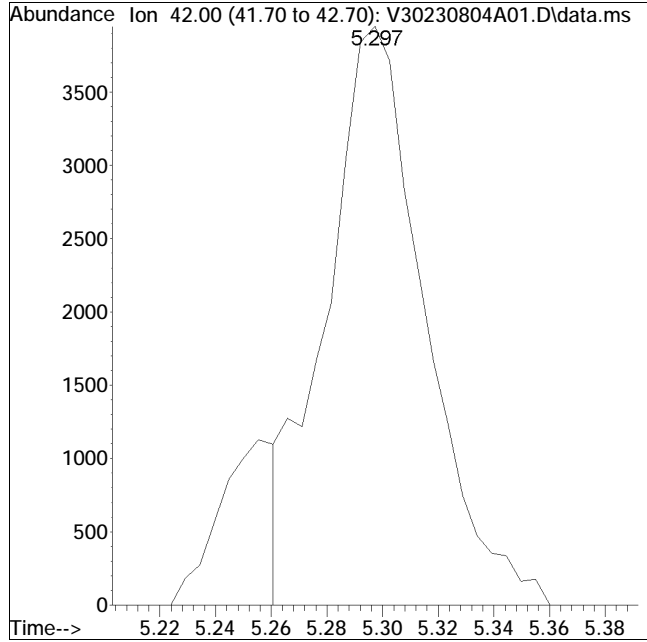
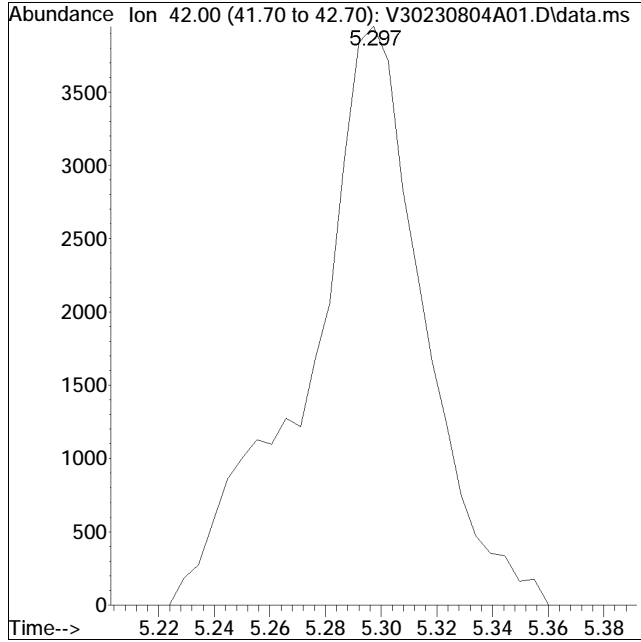
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path : K:\VOA130\2023\230804A\ QMethod : V130_230713N_8260D.m
Data File : V30230804A01.D Operator : VOA130:PID
Date Inj'd : 8/4/2023 6:51 am Instrument : VOA130
Sample : WG1811888-2 Quant Date : 8/4/2023 7:17 am

Compound #38: Tetrahydrofuran



Original Peak Response = 11372

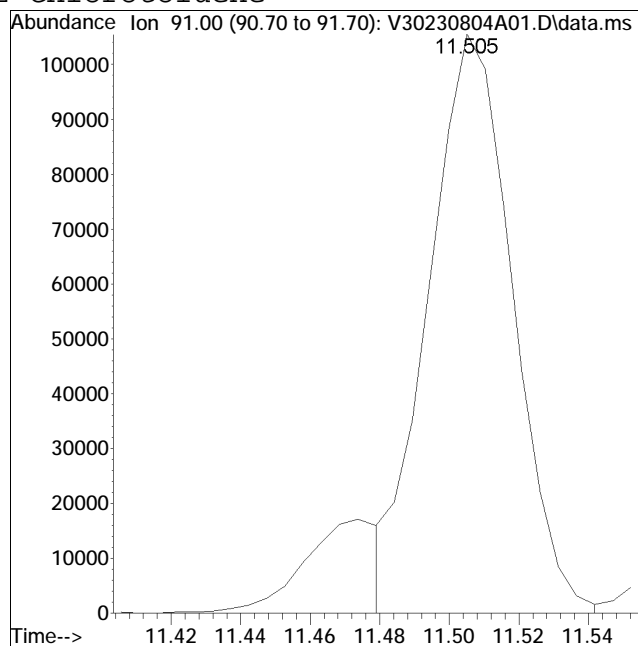
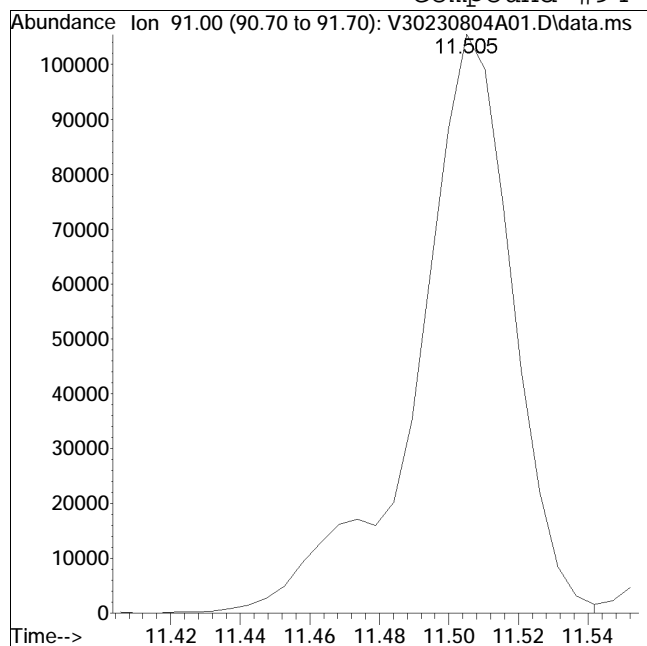
Manual Peak Response = 9760 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA130\2023\230804A\ QMethod : V130_230713N_8260D.m
Data File : V30230804A01.D Operator : VOA130:PID
Date Inj'd : 8/4/2023 6:51 am Instrument : VOA130
Sample : WG1811888-2 Quant Date : 8/4/2023 7:17 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 203100

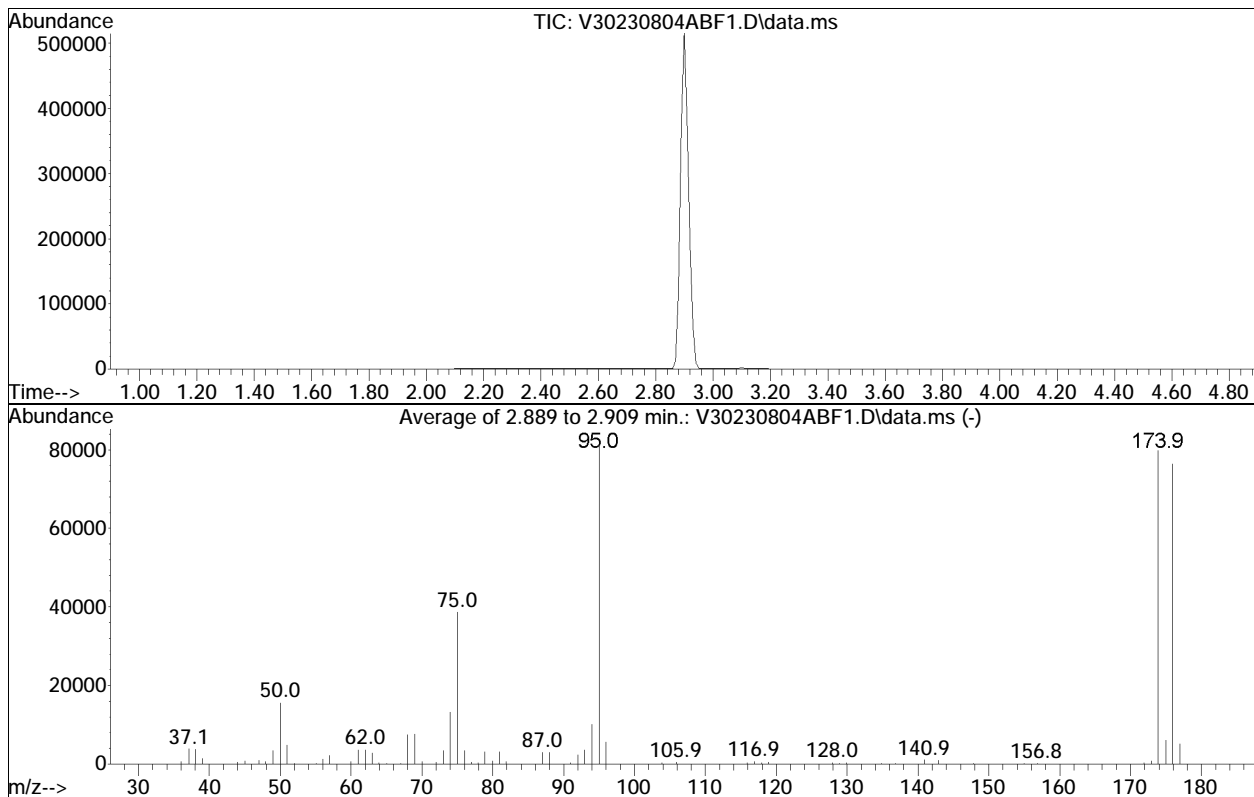
Manual Peak Response = 177340 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804ABF1.D
 Acq On : 04 Aug 2023 06:38 am
 Operator : VOA130:PID
 Sample : WG1811888-1
 Misc : WG1811888
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Title : VOLATILES BY GC/MS
 Last Update : Fri Jul 14 09:22:26 2023



AutoFind: Scans 79, 80, 81; Background Corrected with Scan 74

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	15615	PASS
75	95	30	60	47.5	38653	PASS
95	95	100	100	100.0	81304	PASS
96	95	5	9	6.9	5629	PASS
173	174	0.00	2	1.1	862	PASS
174	95	50	100	98.2	79851	PASS
175	174	5	9	7.6	6105	PASS
176	174	95	101	95.6	76357	PASS
177	176	5	9	6.6	5074	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A05.D
 Acq On : 04 Aug 2023 08:18 am
 Operator : VOA130:PID
 Sample : WG1811888-5,31,10,10
 Misc : WG1811888,ICAL20171
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 08:42:27 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.142	96	243755	10.000	ug/L	# 0.00
Standard Area 1 = 302647			Recovery =	80.54%		
63) Chlorobenzene-d5	9.702	117	261461	10.000	ug/L	# 0.00
Standard Area 1 = 290495			Recovery =	90.01%		
84) 1,4-Dichlorobenzene-d4	12.386	152	150280	10.000	ug/L	0.00
Standard Area 1 = 184997			Recovery =	81.23%		
System Monitoring Compounds						
39) Dibromofluoromethane	5.318	113	91464	12.292	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	122.92%		
47) 1,2-Dichloroethane-d4	5.848	65	78834	10.543	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.43%		
64) Toluene-d8	7.851	98	298271	9.558	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.58%		
88) 4-Bromofluorobenzene	11.180	95	110544	9.216	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	92.16%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0		N.D.	
3) Chloromethane	0.000		0		N.D. d	
4) Vinyl chloride	0.000		0		N.D.	
5) Bromomethane	2.277	94	477	0.154	ug/L	89
6) Chloroethane	0.000		0		N.D.	
7) Trichlorofluoromethane	0.000		0		N.D.	
10) 1,1-Dichloroethene	0.000		0		N.D.	
11) Carbon disulfide	3.069	76	2125	0.217	ug/L #	73
12) Freon-113	0.000		0		N.D.	
15) Methylene chloride	3.604	84	470	0.113	ug/L #	49
17) Acetone	0.000		0		N.D. d	
18) trans-1,2-Dichloroethene	3.756	96	88		N.D.	
19) Methyl acetate	3.777	43	58		N.D.	
21) Methyl tert-butyl ether	0.000		0		N.D.	
25) 1,1-Dichloroethane	0.000		0		N.D.	
30) cis-1,2-Dichloroethene	4.883	96	48		N.D.	
34) Cyclohexane	0.000		0		N.D.	
35) Chloroform	0.000		0		N.D.	
37) Carbon tetrachloride	0.000		0		N.D.	
40) 1,1,1-Trichloroethane	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A05.D
 Acq On : 04 Aug 2023 08:18 am
 Operator : VOA130:PID
 Sample : WG1811888-5,31,10,10
 Misc : WG1811888,ICAL20171
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 08:42:27 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone	0.000		0		N.D.	
45) Benzene	0.000		0		N.D.	
48) 1,2-Dichloroethane	5.927	62	71		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	6.325	95	47		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	0.000		0		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	9.728	112	168		N.D.	
79) Ethylbenzene	9.702	91	443		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	10.556	104	61		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
90) n-Propylbenzene	11.343	91	197		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
95) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
99) tert-Butylbenzene	0.000		0		N.D.	
102) 1,2,4-Trimethylbenzene	0.000		0		N.D.	
103) sec-Butylbenzene	0.000		0		N.D.	
104) p-Isopropyltoluene	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	12.318	146	254		N.D.	
106) 1,4-Dichlorobenzene	12.391	146	461		N.D.	
108) n-Butylbenzene	12.680	91	57		N.D.	
109) 1,2-Dichlorobenzene	12.827	146	50		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	14.232	180	114		N.D.	
115) Naphthalene	0.000		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
Data File : V30230804A05.D
Acq On : 04 Aug 2023 08:18 am
Operator : VOA130:PID
Sample : WG1811888-5,31,10,10
Misc : WG1811888,ICAL20171
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 08:42:27 2023
Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 14 09:22:26 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

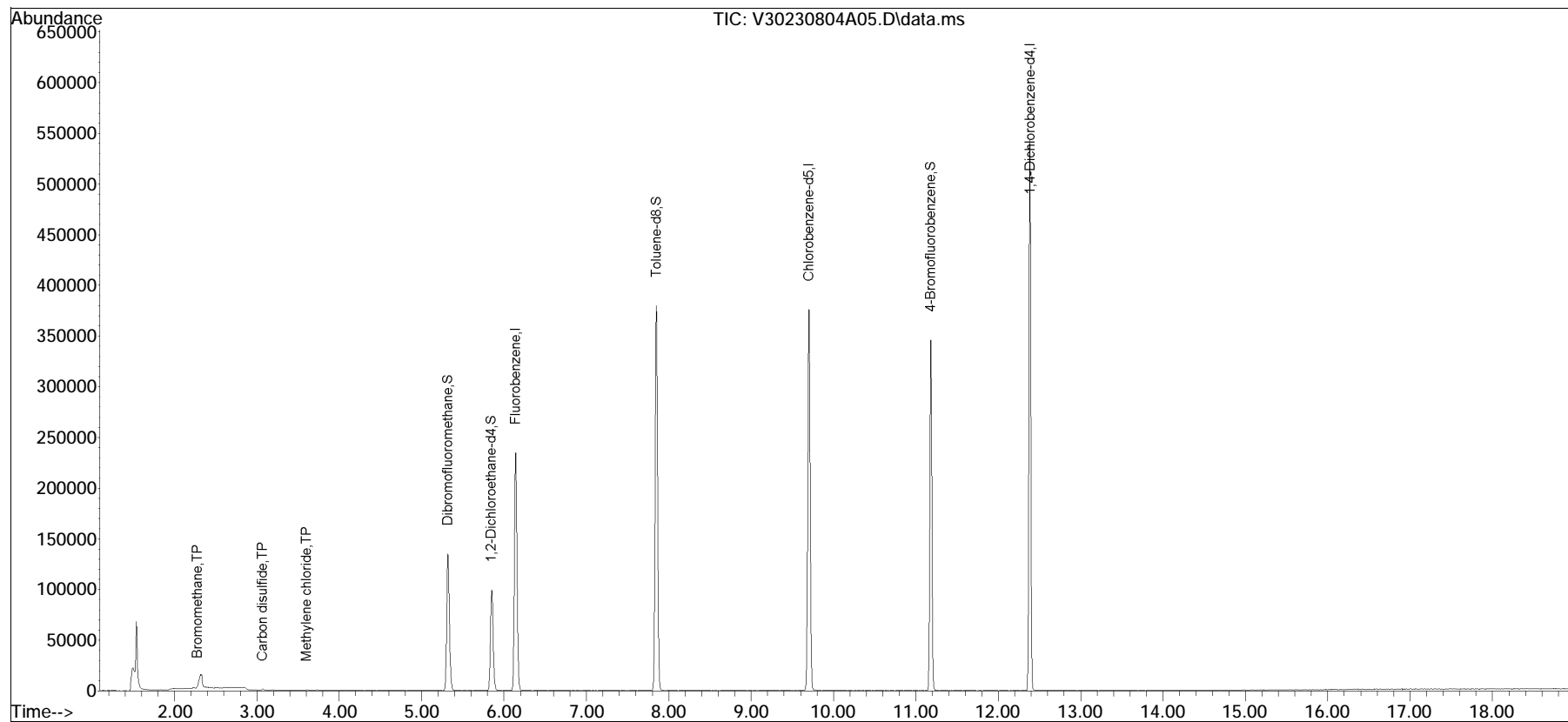
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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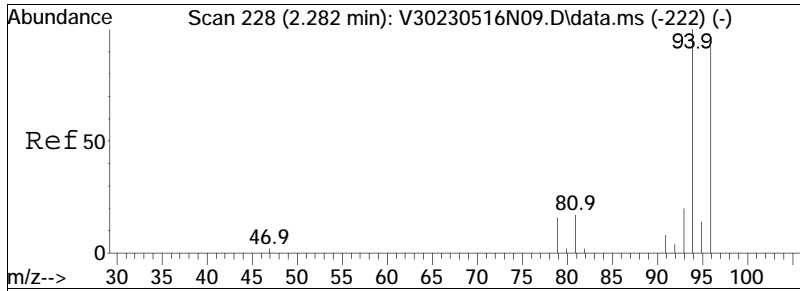
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
Data File : V30230804A05.D
Acq On : 04 Aug 2023 08:18 am
Operator : VOA130:PID
Sample : WG1811888-5,31,10,10
Misc : WG1811888,ICAL20171
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 08:42:27 2023
Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 14 09:22:26 2023
Response via : Initial Calibration

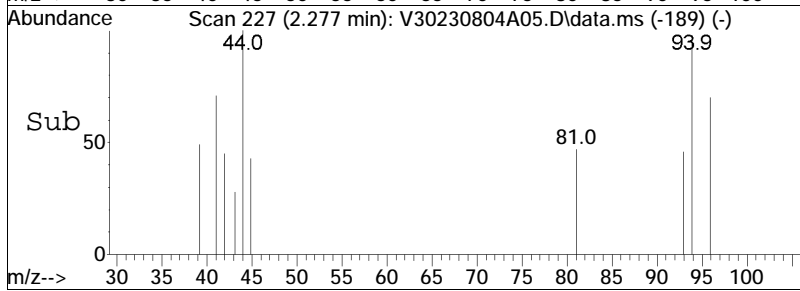
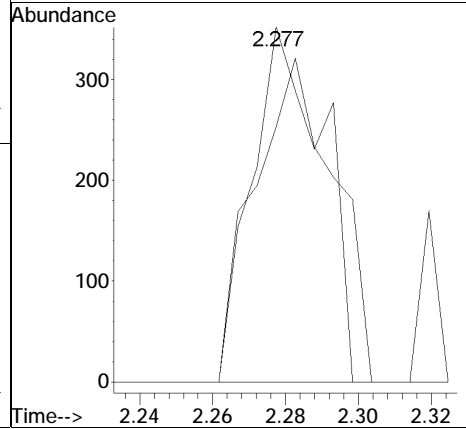
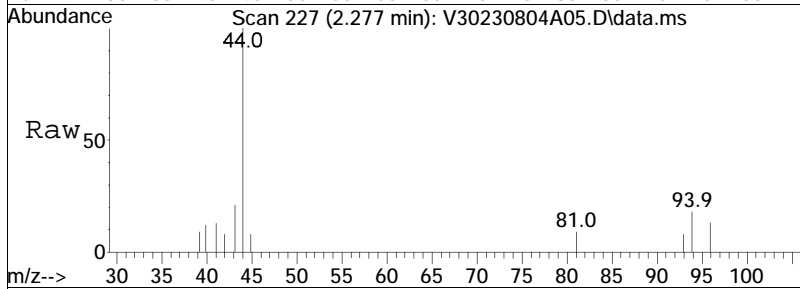
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

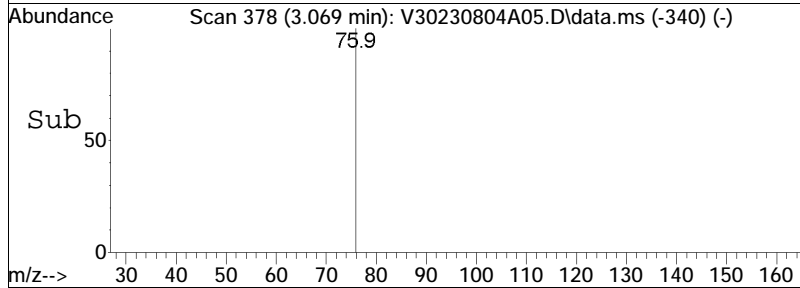
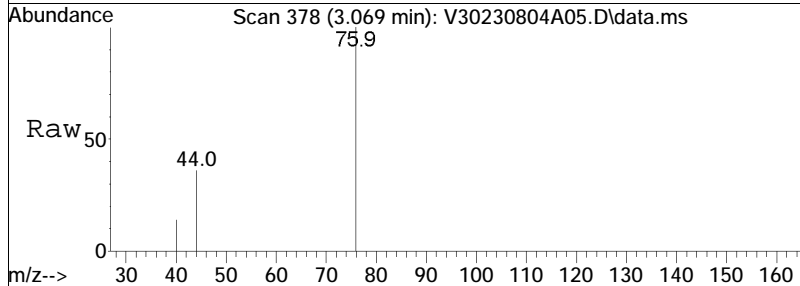
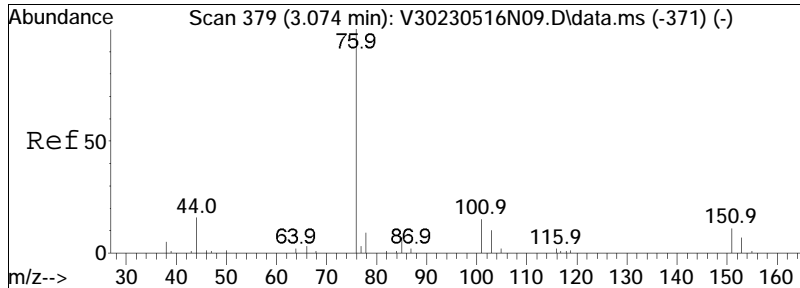




#5
 Bromomethane
 Concen: 0.15 ug/L
 RT: 2.277 min Scan# 227
 Delta R.T. 0.000 min
 Lab File: V30230804A05.D
 Acq: 04 Aug 2023 08:18 am

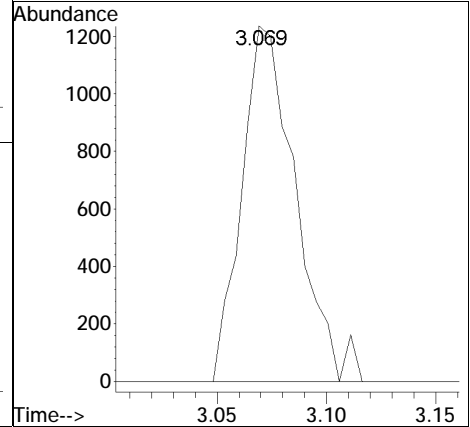
Tgt Ion: 94 Resp: 477
 Ion Ratio Lower Upper
 94 100
 96 102.5 73.7 110.5

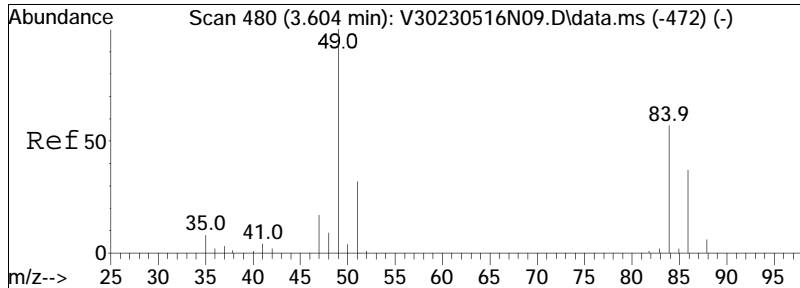




#11
 Carbon disulfide
 Concen: 0.22 ug/L
 RT: 3.069 min Scan# 378
 Delta R.T. 0.000 min
 Lab File: V30230804A05.D
 Acq: 04 Aug 2023 08:18 am

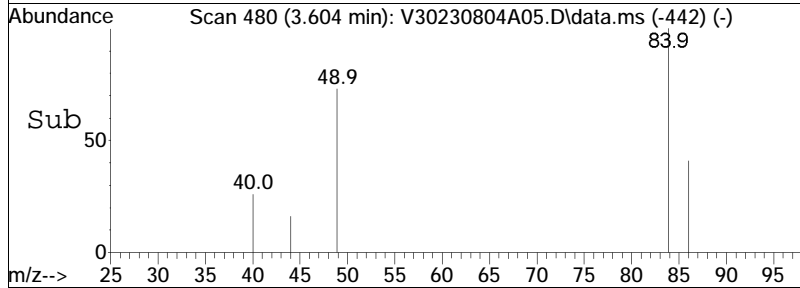
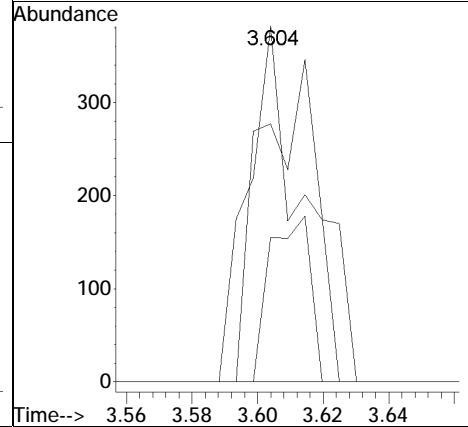
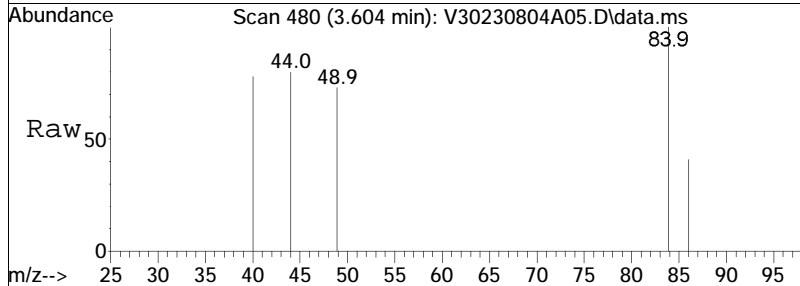
Tgt Ion:	76	Resp:	2125
Ion Ratio	Lower	Upper	
76	100		
78	0.0	6.4	13.4#





#15
 Methylene chloride
 Concen: 0.11 ug/L
 RT: 3.604 min Scan# 480
 Delta R.T. 0.000 min
 Lab File: V30230804A05.D
 Acq: 04 Aug 2023 08:18 am

Tgt Ion	Resp	Lower	Upper
84	100		
86	32.6	41.7	86.5#
49	86.8	103.9	215.9#



Manual Integration Report

Data Path	: K:\VOA130\2023\230804A\	QMethod	: V130_230713N_8260D.m
Data File	: V30230804A05.D	Operator	: VOA130:PID
Date Inj'd	: 8/4/2023 8:18 am	Instrument	: VOA130
Sample	: WG1811888-5,31,10,10	Quant Date	: 8/4/2023 8:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A01.D
 Acq On : 04 Aug 2023 06:51 am
 Operator : VOA130:PID
 Sample : WG1811888-3,31,10,10
 Misc : WG1811888,ICAL20171
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 07:18:01 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.141	96	302647	10.000	ug/L	# 0.00
63) Chlorobenzene-d5	9.707	117	290495	10.000	ug/L	# 0.00
84) 1,4-Dichlorobenzene-d4	12.386	152	184997	10.000	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	5.323	113	101147	10.948	ug/L	0.00
Spiked Amount	10.000		Range 70 - 130	Recovery =	109.48%	
47) 1,2-Dichloroethane-d4	5.853	65	91617	9.869	ug/L	0.00
Spiked Amount	10.000		Range 70 - 130	Recovery =	98.69%	
64) Toluene-d8	7.851	98	339801	9.800	ug/L	0.00
Spiked Amount	10.000		Range 70 - 130	Recovery =	98.00%	
88) 4-Bromofluorobenzene	11.180	95	130055	8.807	ug/L	0.00
Spiked Amount	10.000		Range 70 - 130	Recovery =	88.07%	
Target Compounds						
2) Dichlorodifluoromethane	1.685	85	55559	8.898	ug/L	96
3) Chloromethane	1.879	50	60761	10.654	ug/L	98
4) Vinyl chloride	1.957	62	65101	10.315	ug/L	99
5) Bromomethane	2.277	94	39983	10.411	ug/L	99
6) Chloroethane	2.398	64	43880	11.015	ug/L	99
7) Trichlorofluoromethane	2.545	101	92804	10.362	ug/L	99
10) 1,1-Dichloroethene	3.043	96	48268	10.684	ug/L	# 71
11) Carbon disulfide	3.069	76	135313	11.139	ug/L	98
12) Freon-113	3.085	101	53151	11.034	ug/L	# 70
15) Methylene chloride	3.604	84	53788	10.410	ug/L	87
17) Acetone	3.640	43	10797	9.213	ug/L	97
18) trans-1,2-Dichloroethene	3.761	96	54979	10.877	ug/L	78
19) Methyl acetate	3.766	43	26767	9.490	ug/L	# 91
21) Methyl tert-butyl ether	3.866	73	106302	9.055	ug/L	96
25) 1,1-Dichloroethane	4.353	63	96789	10.623	ug/L	98
30) cis-1,2-Dichloroethene	4.873	96	62513	10.788	ug/L	# 78
34) Cyclohexane	5.082	56	85439	10.543	ug/L	85
35) Chloroform	5.140	83	97511	10.609	ug/L	95
37) Carbon tetrachloride	5.287	117	84215	11.392	ug/L	98
40) 1,1,1-Trichloroethane	5.355	97	87494	10.720	ug/L	91
42) 2-Butanone	5.434	43	13846	8.662	ug/L	# 85
45) Benzene	5.722	78	197848	10.973	ug/L	98
48) 1,2-Dichloroethane	5.921	62	65706	9.723	ug/L	# 97
51) Methyl cyclohexane	6.320	83	78133	10.313	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A01.D
 Acq On : 04 Aug 2023 06:51 am
 Operator : VOA130:PID
 Sample : WG1811888-3,31,10,10
 Misc : WG1811888,ICAL20171
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 07:18:01 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

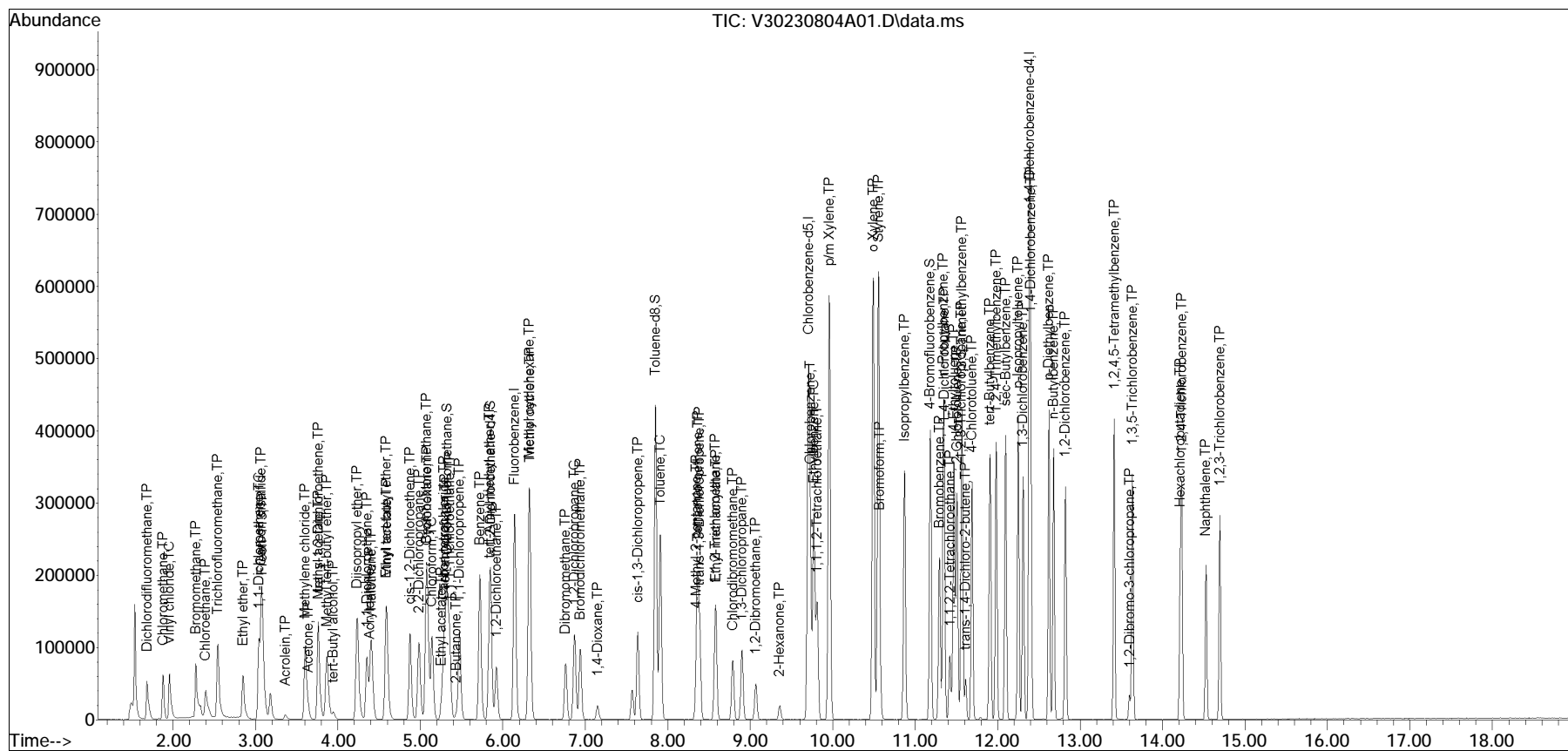
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Trichloroethene	6.325	95	57362	10.328	ug/L	# 82
55) 1,2-Dichloropropane	6.870	63	51083	10.795	ug/L	95
58) Bromodichloromethane	6.938	83	72608	10.694	ug/L	# 99
62) cis-1,3-Dichloropropene	7.636	75	73873	10.342	ug/L	89
65) Toluene	7.908	92	129287	9.615	ug/L	98
66) 4-Methyl-2-pentanone	8.344	58	9513	7.094	ug/L	# 85
67) Tetrachloroethene	8.364	166	67154	10.903	ug/L	# 89
69) trans-1,3-Dichloropropene	8.385	75	61633	8.854	ug/L	# 86
72) 1,1,2-Trichloroethane	8.574	83	31364	8.677	ug/L	89
73) Chlorodibromomethane	8.789	129	53747	9.317	ug/L	98
75) 1,2-Dibromoethane	9.067	107	39637	8.905	ug/L	98
77) 2-Hexanone	9.355	43	16393	6.211	ug/L	100
78) Chlorobenzene	9.728	112	155449	9.882	ug/L	# 87
79) Ethylbenzene	9.770	91	242228	9.325	ug/L	93
81) p/m Xylene	9.958	106	205492	19.151	ug/L	85
82) o Xylene	10.493	106	200062	18.886	ug/L	85
83) Styrene	10.556	104	329948	19.194	ug/L	86
85) Bromoform	10.572	173	32154	8.617	ug/L	96
87) Isopropylbenzene	10.871	105	248373	8.864	ug/L	92
90) n-Propylbenzene	11.343	91	287225	8.930	ug/L	# 89
92) 1,1,2,2-Tetrachloroethane	11.421	83	42118	8.685	ug/L	# 98
95) 1,3,5-Trimethylbenzene	11.568	105	209825	9.056	ug/L	92
99) tert-Butylbenzene	11.909	119	188708	9.003	ug/L	86
102) 1,2,4-Trimethylbenzene	11.982	105	206511	9.082	ug/L	92
103) sec-Butylbenzene	12.098	105	264612	9.050	ug/L	88
104) p-Isopropyltoluene	12.250	119	232248	9.034	ug/L	93
105) 1,3-Dichlorobenzene	12.307	146	145032	9.648	ug/L	95
106) 1,4-Dichlorobenzene	12.402	146	145882	9.686	ug/L	96
108) n-Butylbenzene	12.680	91	185649	9.211	ug/L	# 94
109) 1,2-Dichlorobenzene	12.821	146	133763	9.351	ug/L	94
111) 1,2-Dibromo-3-chloropr...	13.602	155	7326	7.345	ug/L	98
114) 1,2,4-Trichlorobenzene	14.232	180	86567	9.813	ug/L	98
115) Naphthalene	14.525	128	155093	7.726	ug/L	100

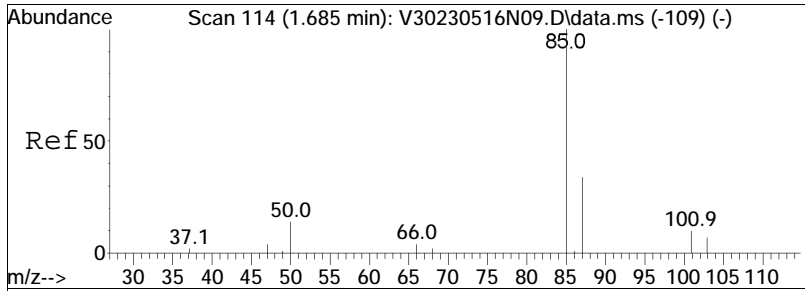
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A01.D
 Acq On : 04 Aug 2023 06:51 am
 Operator : VOA130:PID
 Sample : WG1811888-3,31,10,10
 Misc : WG1811888,ICAL20171
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 07:18:01 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

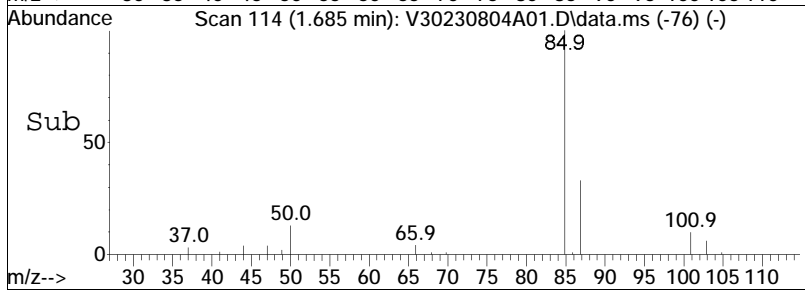
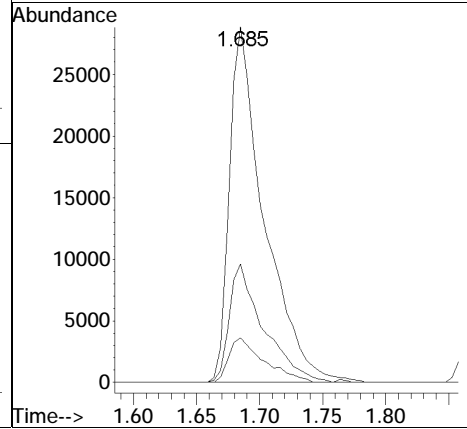
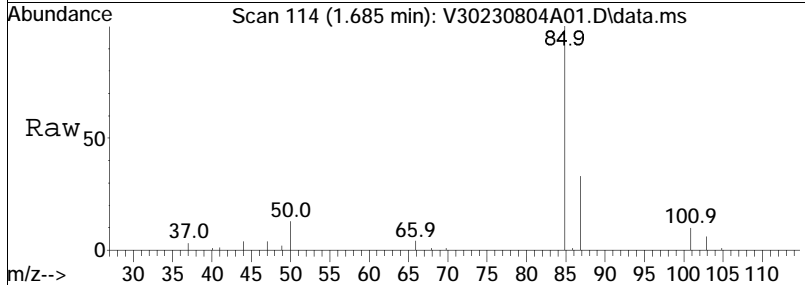
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

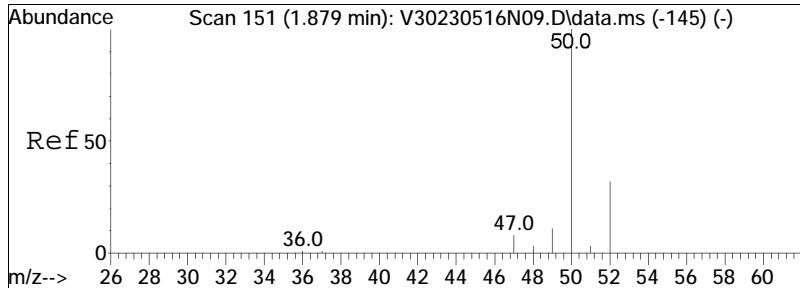




#2
 Dichlorodifluoromethane
 Concen: 8.90 ug/L
 RT: 1.685 min Scan# 114
 Delta R.T. -0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

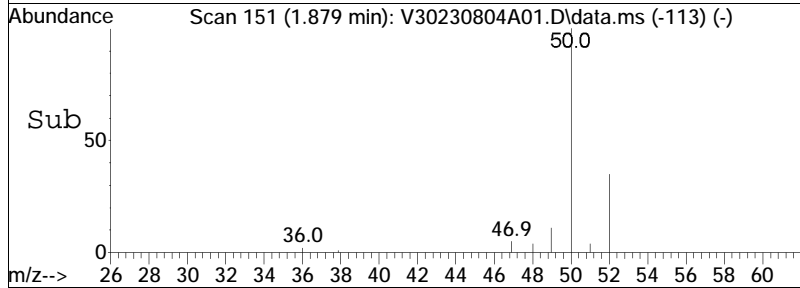
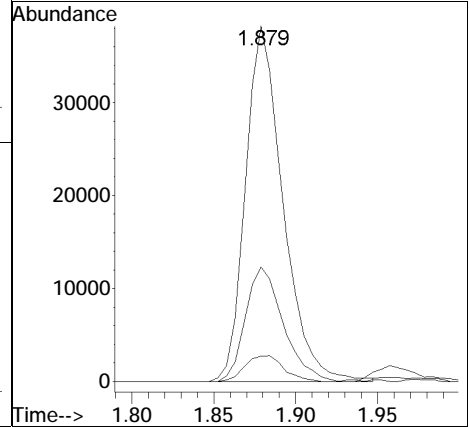
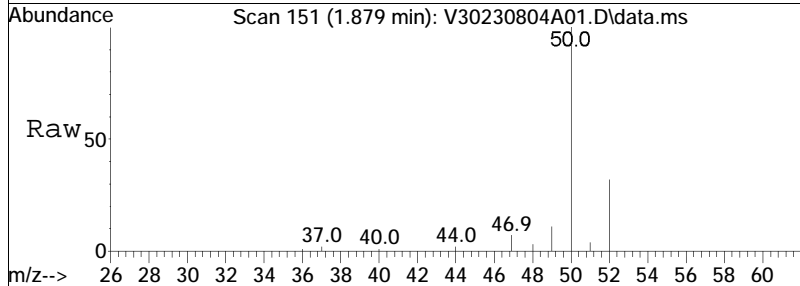
Tgt Ion	Resp	Lower	Upper
85	55559		
87	32.6	20.2	42.0
50	12.7	10.1	20.9

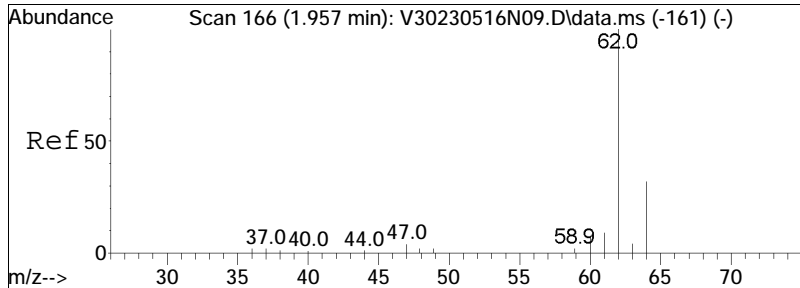




#3
 Chloromethane
 Concen: 10.65 ug/L
 RT: 1.879 min Scan# 151
 Delta R.T. -0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

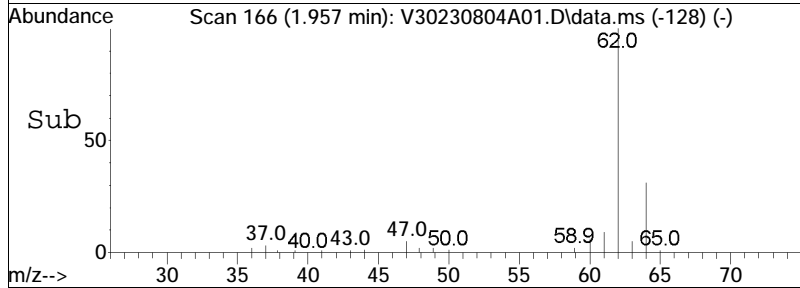
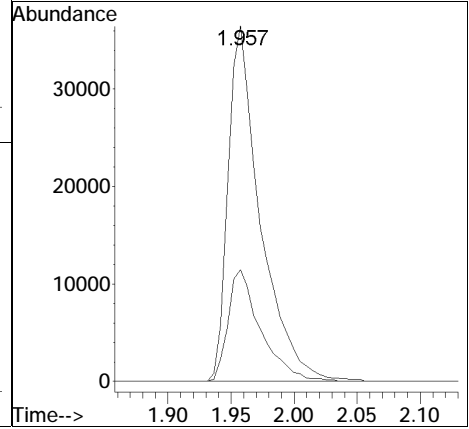
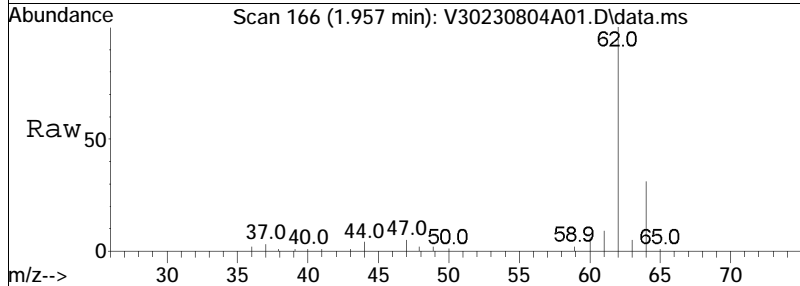
Tgt Ion	Resp	Lower	Upper
50	100		
52	32.3	25.1	37.7
47	7.5	6.5	9.7

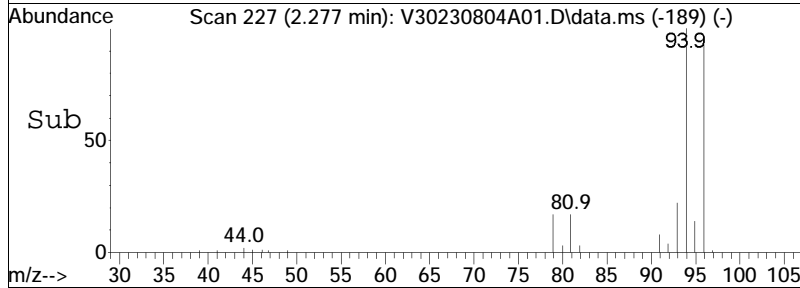
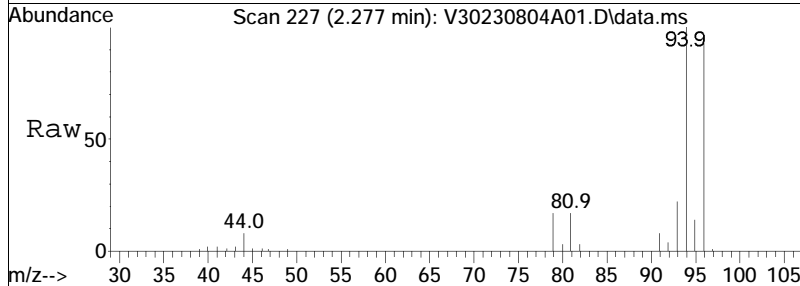
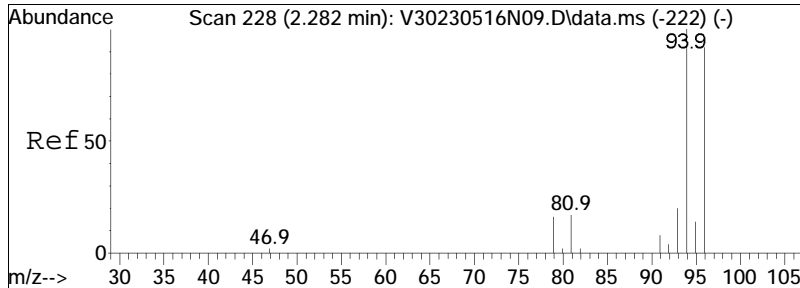




#4
 Vinyl chloride
 Concen: 10.32 ug/L
 RT: 1.957 min Scan# 166
 Delta R.T. -0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

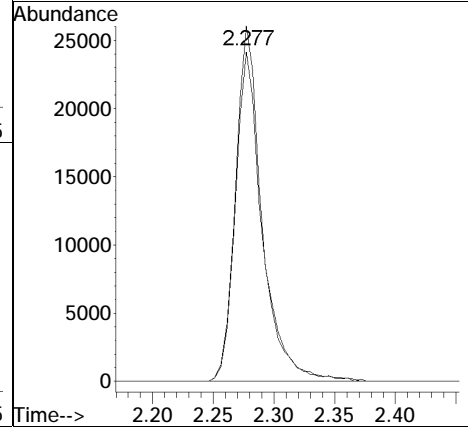
Tgt Ion:	62	Resp:	65101
Ion Ratio	100	Lower	Upper
62	100		
64	31.7	25.7	38.5

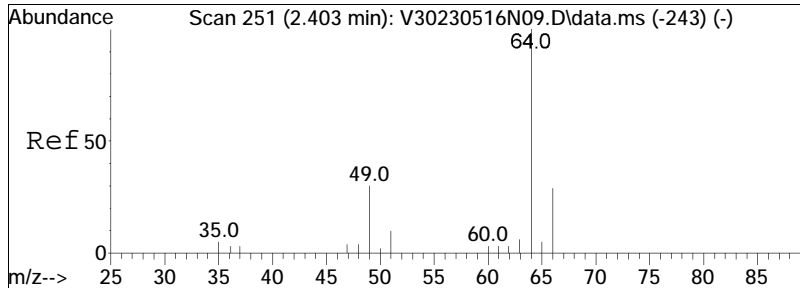




#5
 Bromomethane
 Concen: 10.41 ug/L
 RT: 2.277 min Scan# 227
 Delta R.T. -0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

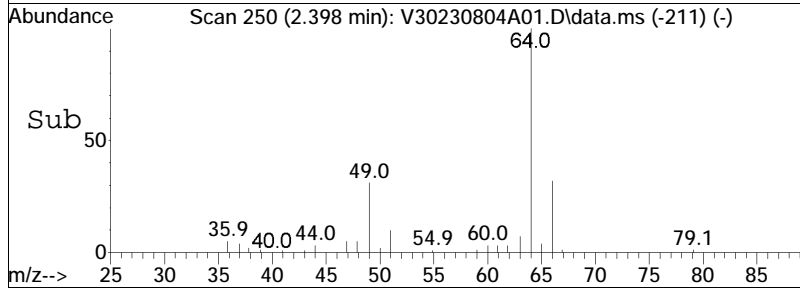
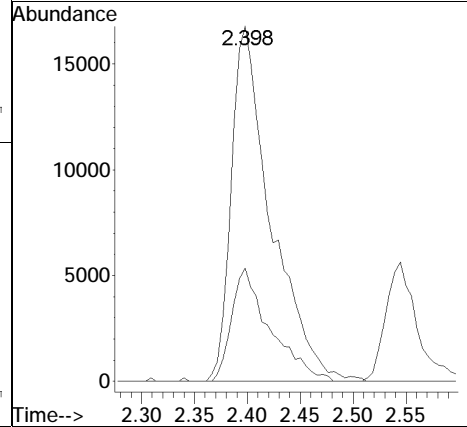
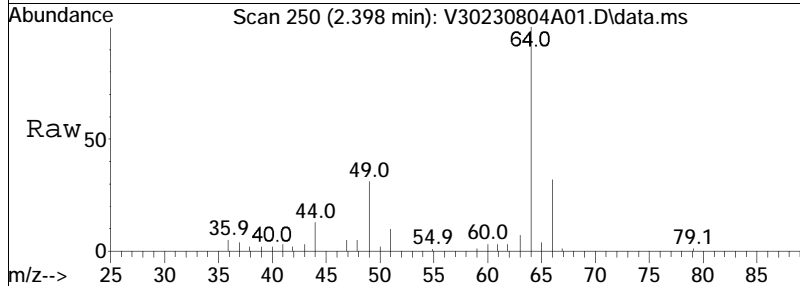
Tgt Ion	Resp	Lower	Upper
94	39983		
94	100		
96	93.3	73.7	110.5

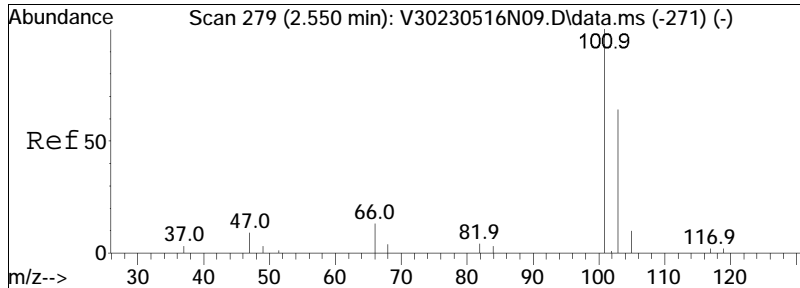




#6
 Chloroethane
 Concen: 11.01 ug/L
 RT: 2.398 min Scan# 250
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

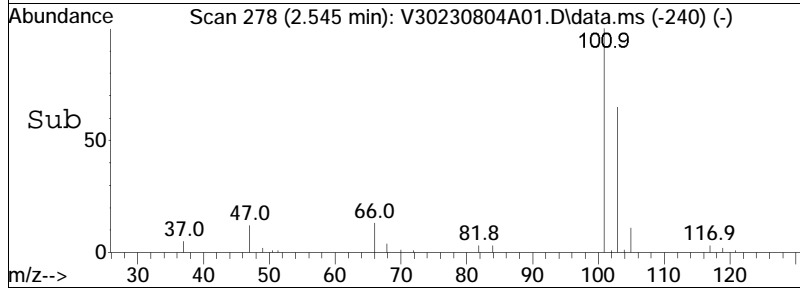
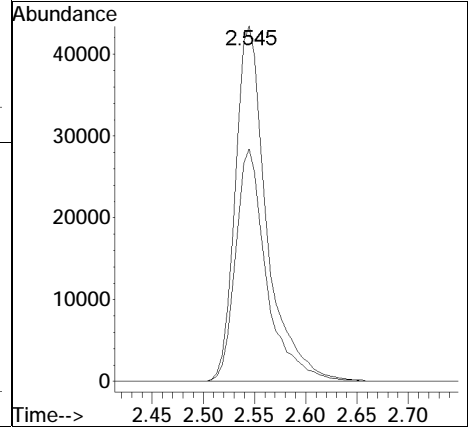
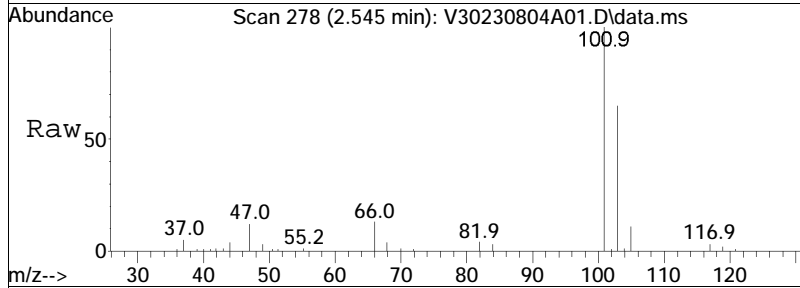
Tgt Ion: 64 Resp: 43880
 Ion Ratio Lower Upper
 64 100
 66 31.0 25.3 37.9

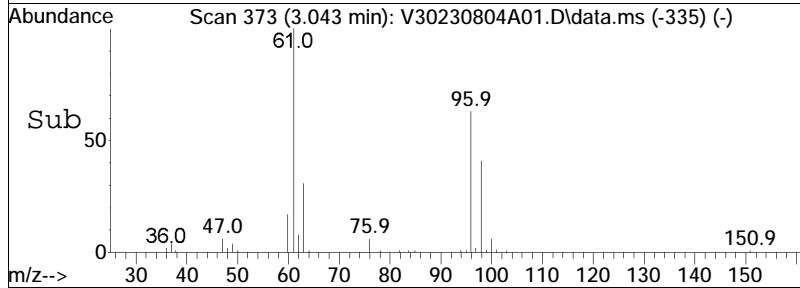
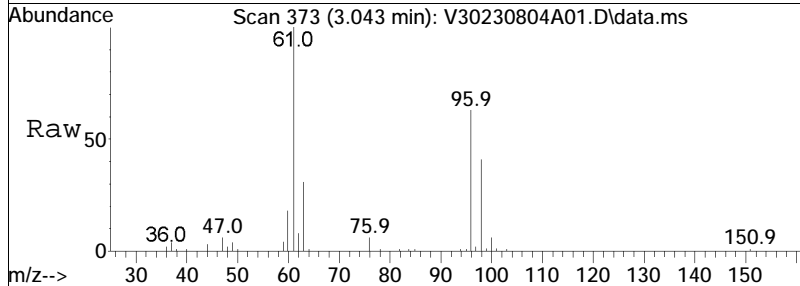
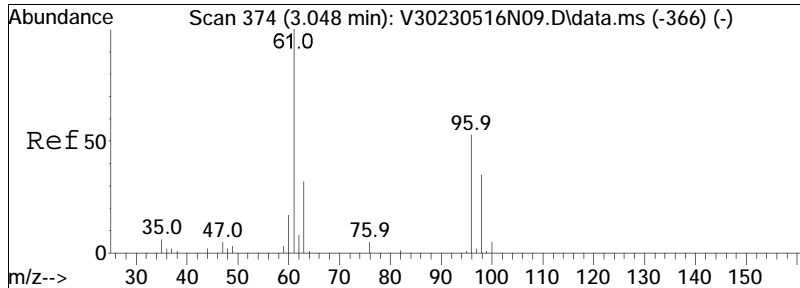




#7
 Trichlorofluoromethane
 Concen: 10.36 ug/L
 RT: 2.545 min Scan# 278
 Delta R.T. -0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

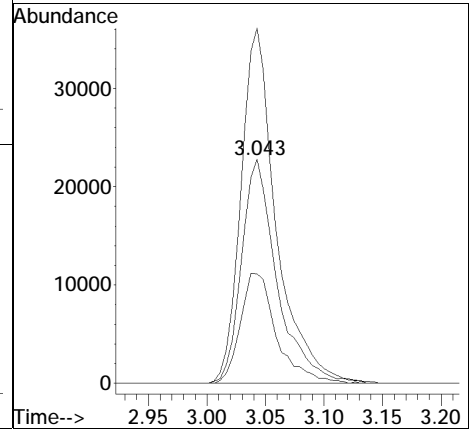
Tgt Ion	Resp	Lower	Upper
101	92804		
101	100		
103	64.6	51.0	76.4

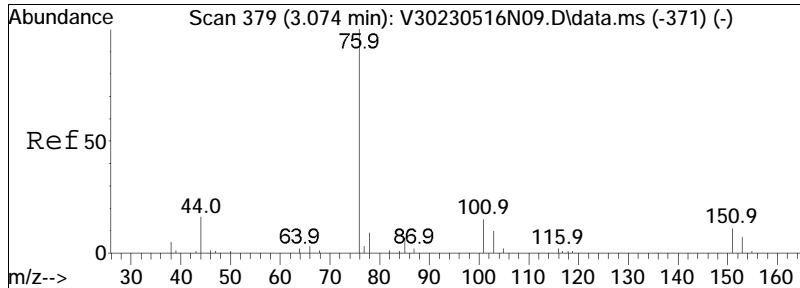




#10
 1,1-Dichloroethene
 Concen: 10.68 ug/L
 RT: 3.043 min Scan# 373
 Delta R.T. -0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

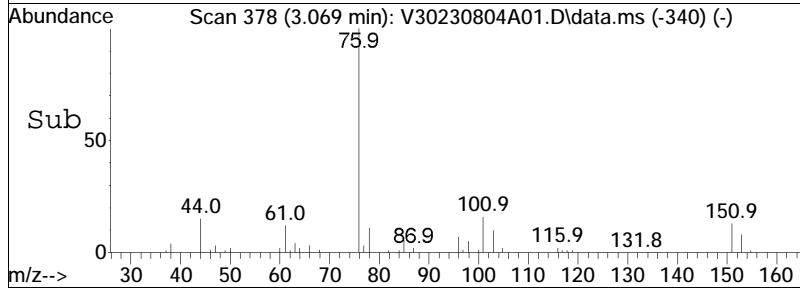
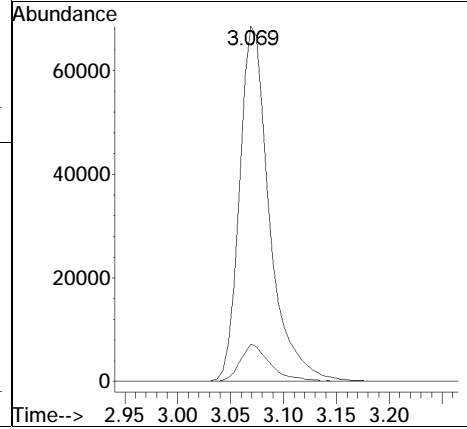
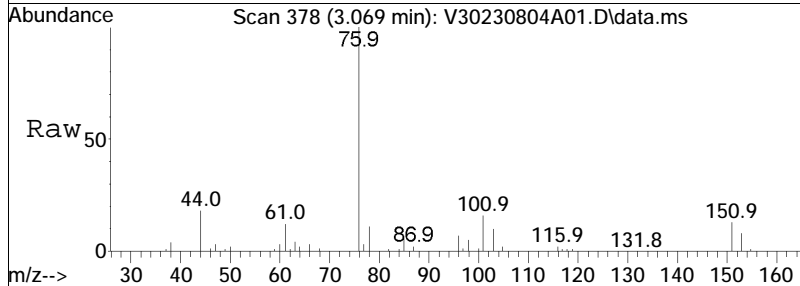
Tgt Ion:	96	Resp:	48268
Ion Ratio	Lower	Upper	
96	100		
61	157.1	165.5	248.3#
63	50.1	51.9	77.9#

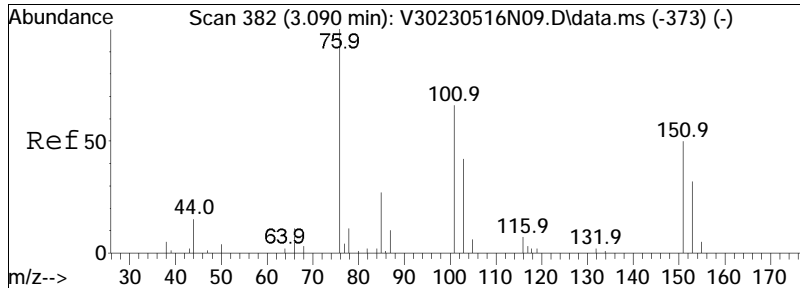




#11
 Carbon disulfide
 Concen: 11.14 ug/L
 RT: 3.069 min Scan# 378
 Delta R.T. -0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

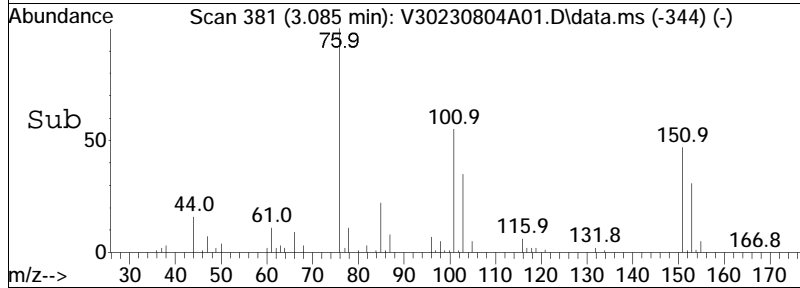
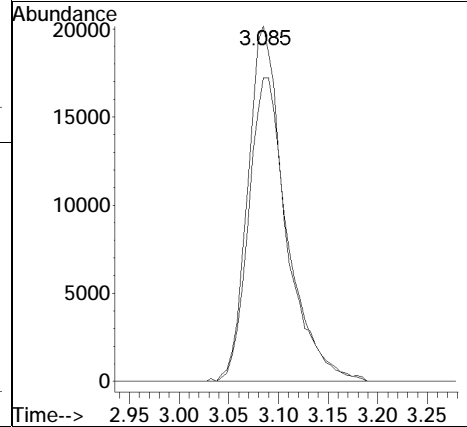
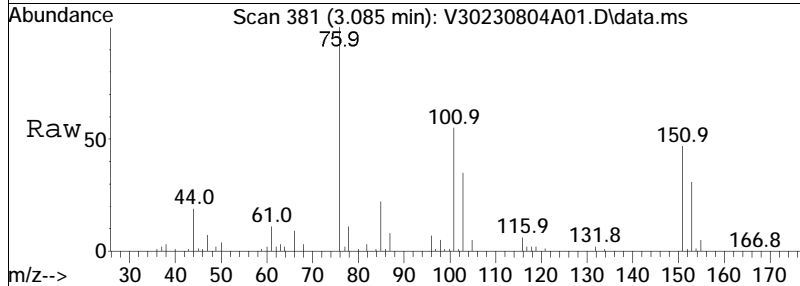
Tgt Ion:	Resp:	Lower	Upper
76	100		
78	10.5	6.4	13.4

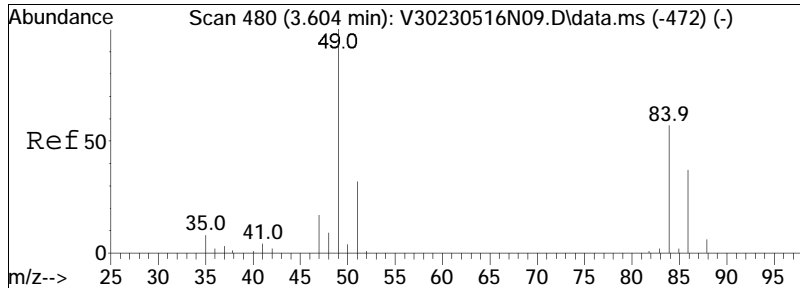




#12
 Freon-113
 Concen: 11.03 ug/L
 RT: 3.085 min Scan# 381
 Delta R.T. -0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

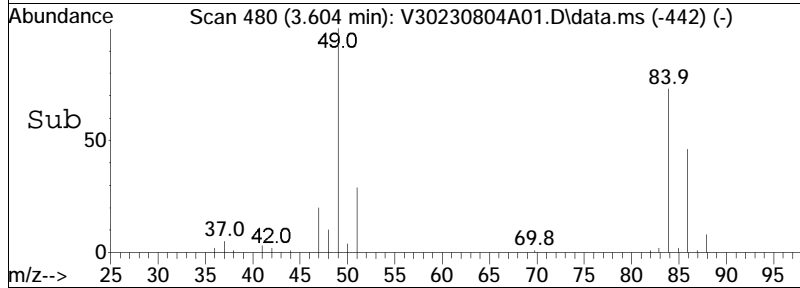
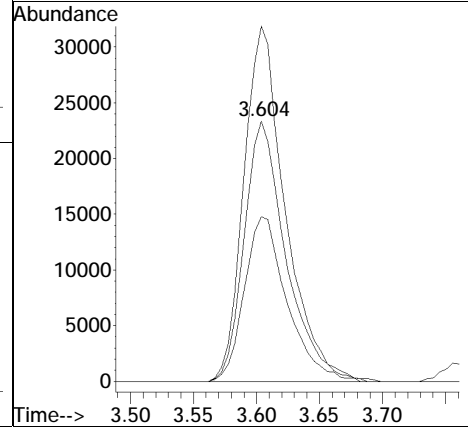
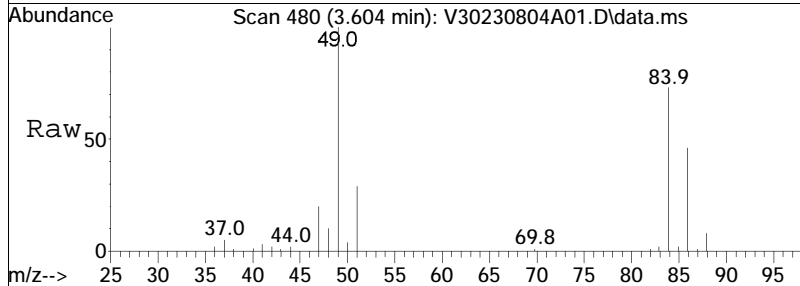
Tgt Ion	101	Resp:	53151
Ion Ratio	Lower	Upper	
101	100		
151	88.7	51.9	77.9#

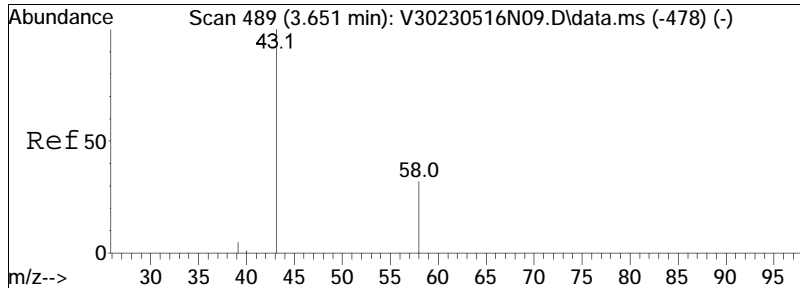




#15
 Methylene chloride
 Concen: 10.41 ug/L
 RT: 3.604 min Scan# 480
 Delta R.T. -0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

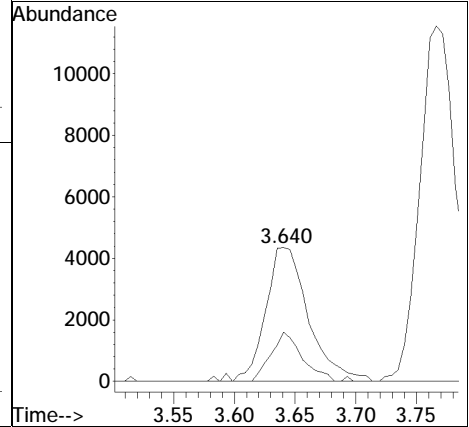
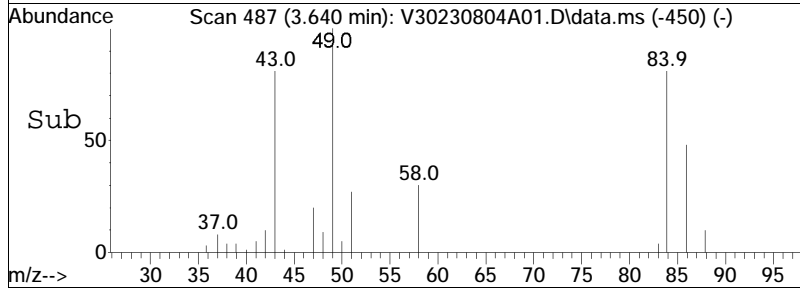
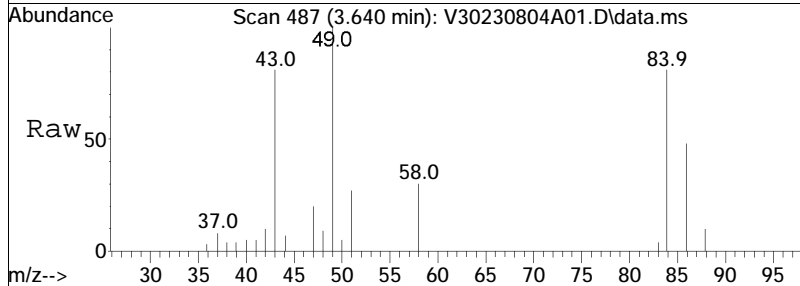
Tgt Ion:	84	Resp:	53788
Ion Ratio	Lower	Upper	
84	100		
86	64.7	41.7	86.5
49	135.7	103.9	215.9

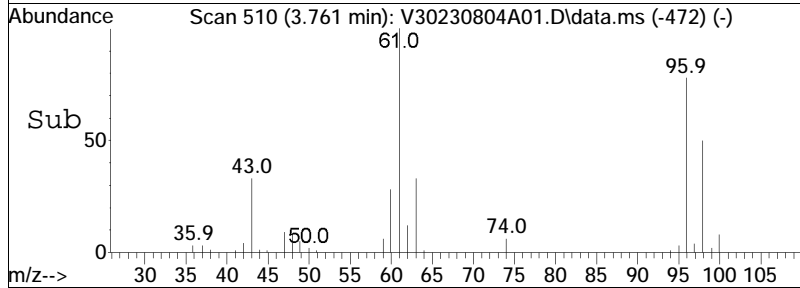
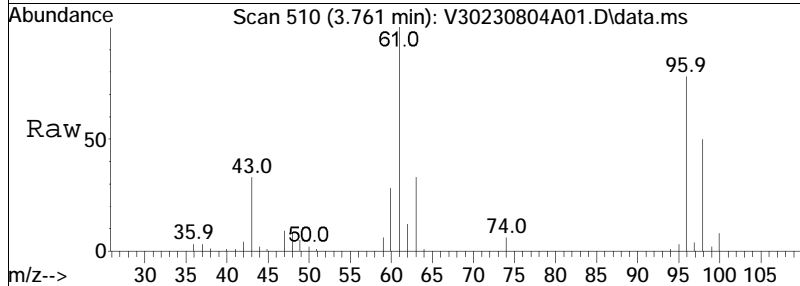
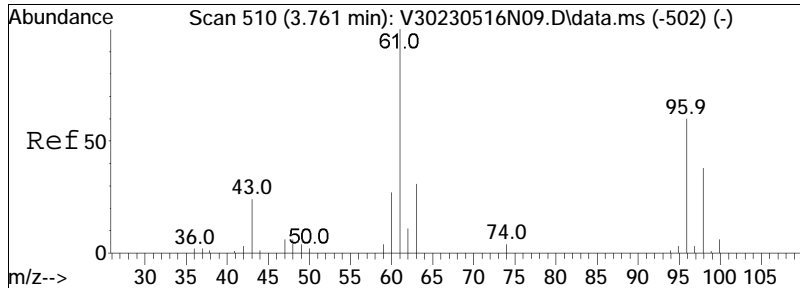




#17
 Acetone
 Concen: 9.21 ug/L
 RT: 3.640 min Scan# 487
 Delta R.T. -0.006 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

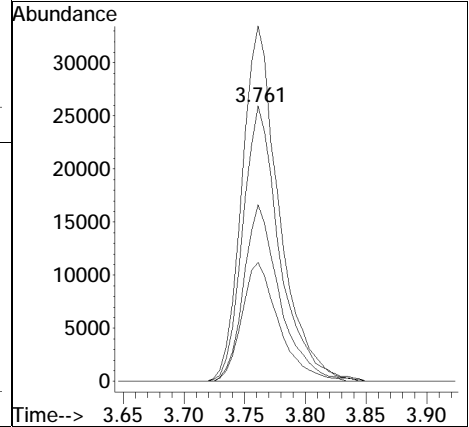
Tgt Ion: 43 Resp: 10797
 Ion Ratio Lower Upper
 43 100
 58 26.7 20.1 30.1

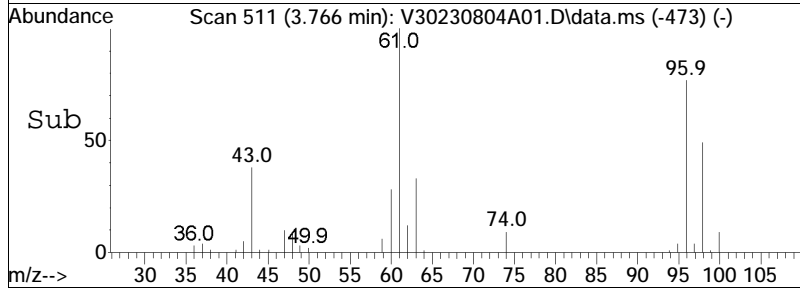
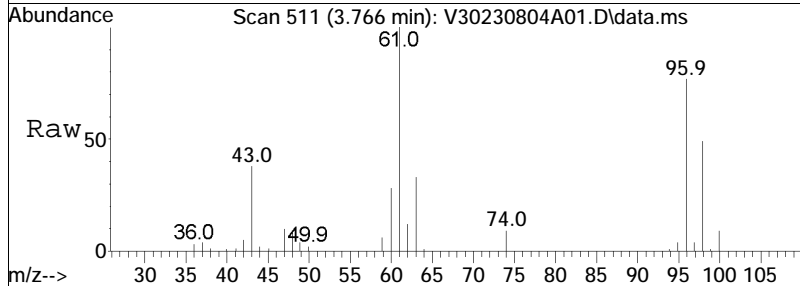
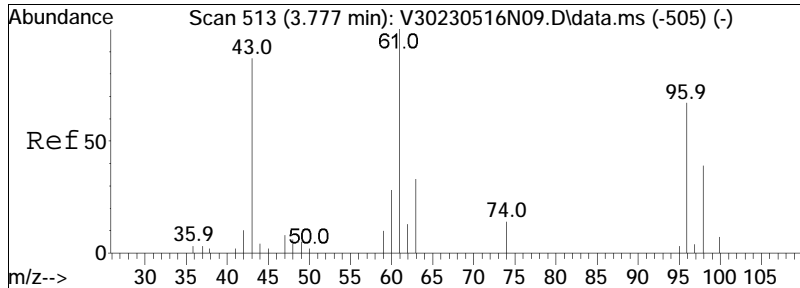




#18
 trans-1,2-Dichloroethene
 Concen: 10.88 ug/L
 RT: 3.761 min Scan# 510
 Delta R.T. 0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

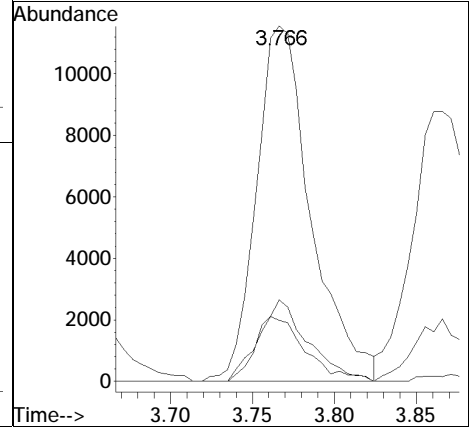
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
96	100		
61	130.0	113.6	236.0
98	62.8	40.8	84.8
63	43.4	36.5	75.7

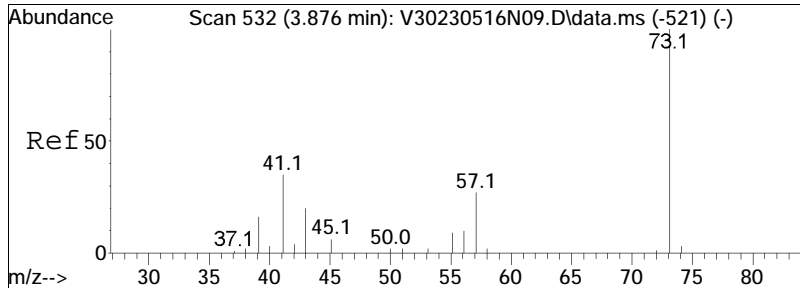




#19
 Methyl acetate
 Concen: 9.49 ug/L
 RT: 3.766 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

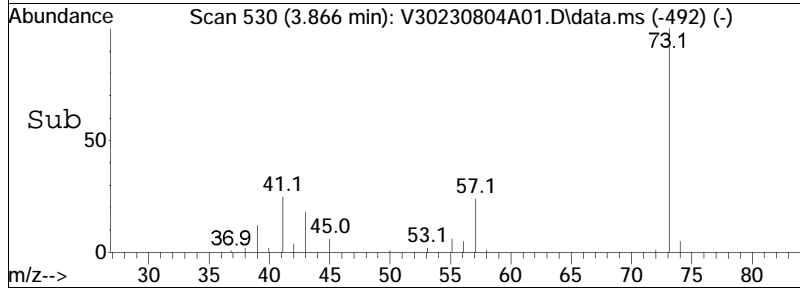
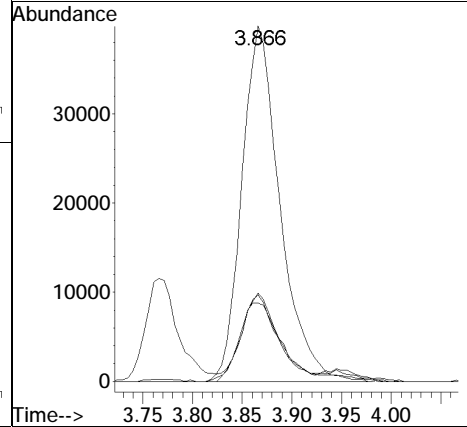
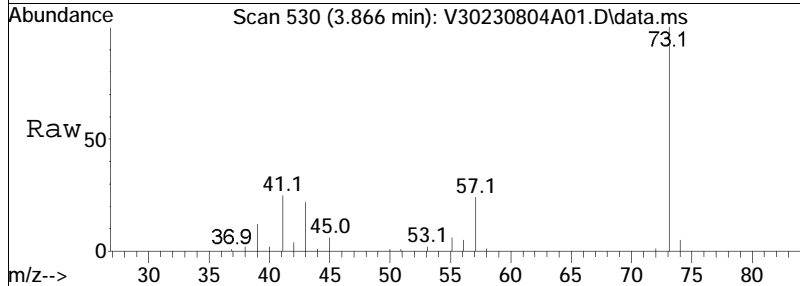
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
43	100		
74	20.4	14.6	22.0
59	17.3	9.3	13.9#

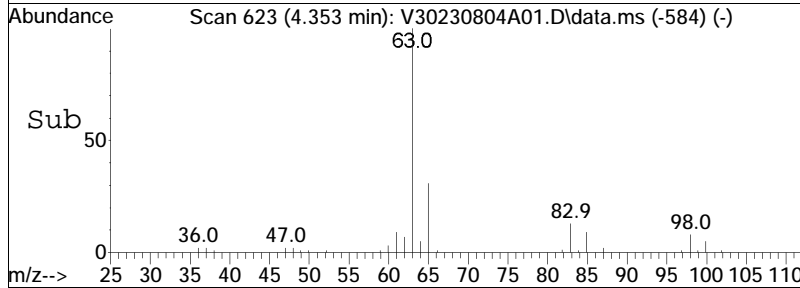
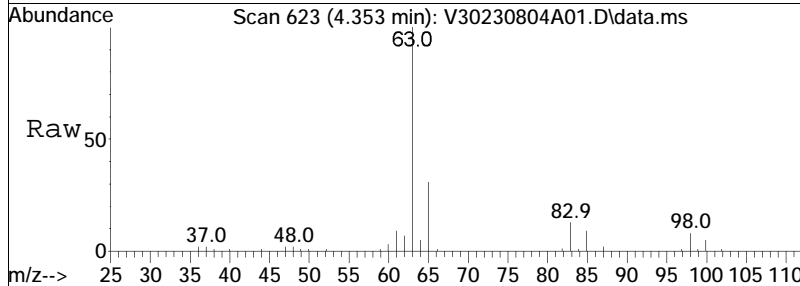
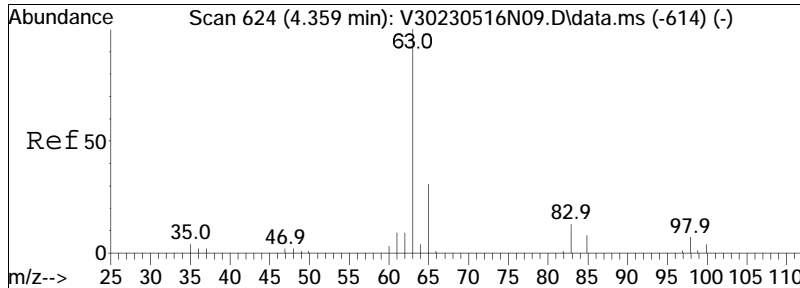




#21
 Methyl tert-butyl ether
 Concen: 9.06 ug/L
 RT: 3.866 min Scan# 530
 Delta R.T. -0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

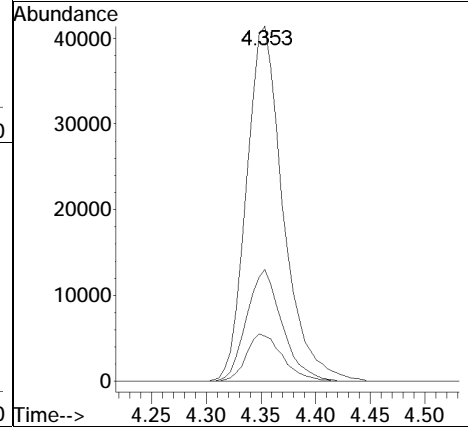
Tgt Ion	Resp	Lower	Upper
73	106302		
57	25.5	15.5	32.1
43	23.2	16.6	34.6
41	24.6	17.2	35.6

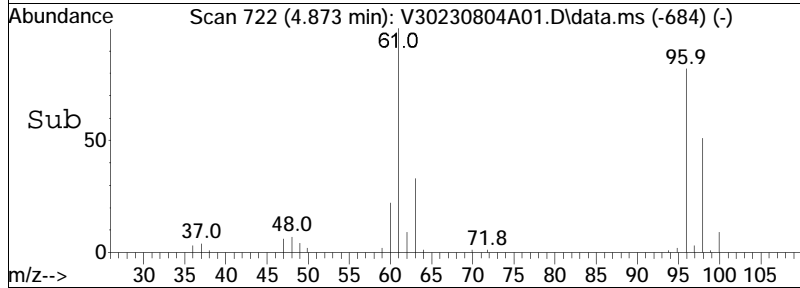
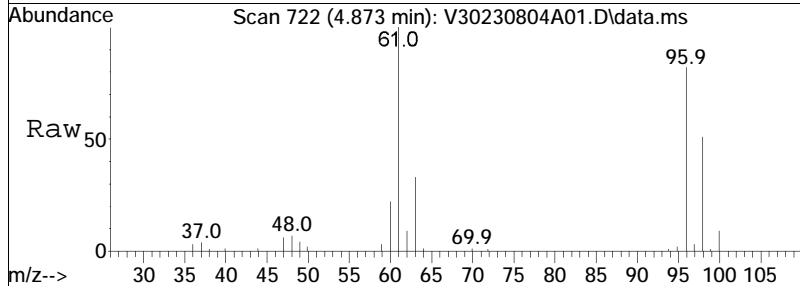
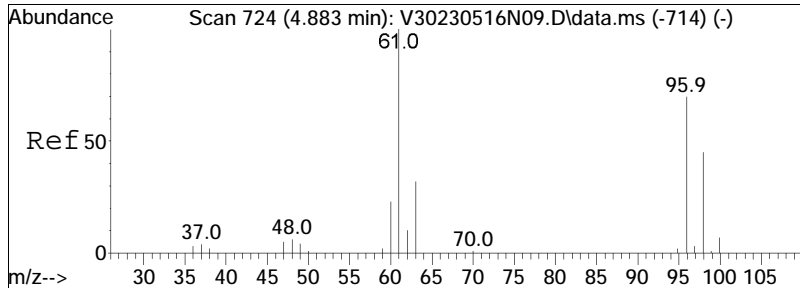




#25
 1,1-Dichloroethane
 Concen: 10.62 ug/L
 RT: 4.353 min Scan# 623
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

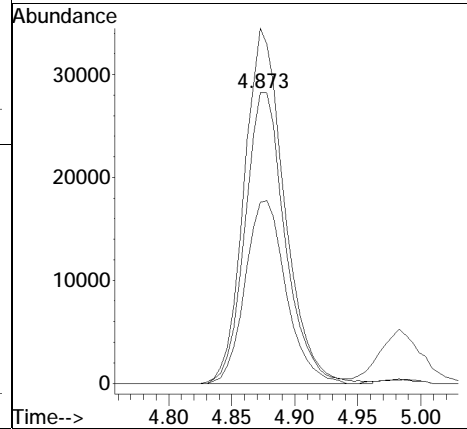
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
63	100		
65	30.6	24.5	36.7
83	13.3	8.9	13.3

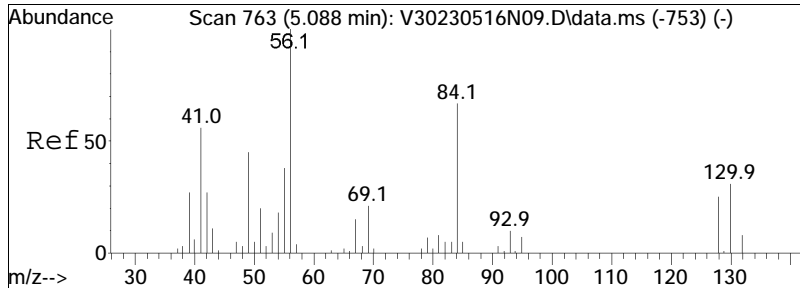




#30
 cis-1,2-Dichloroethene
 Concen: 10.79 ug/L
 RT: 4.873 min Scan# 722
 Delta R.T. -0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

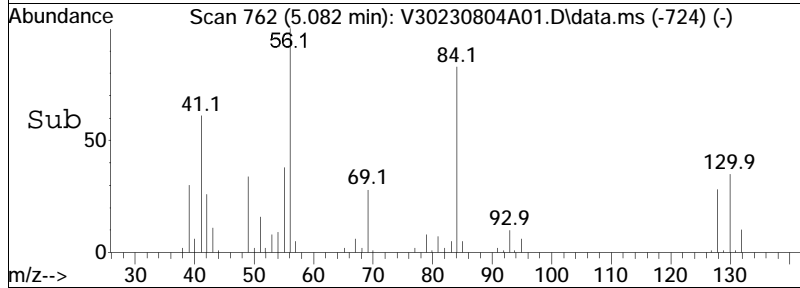
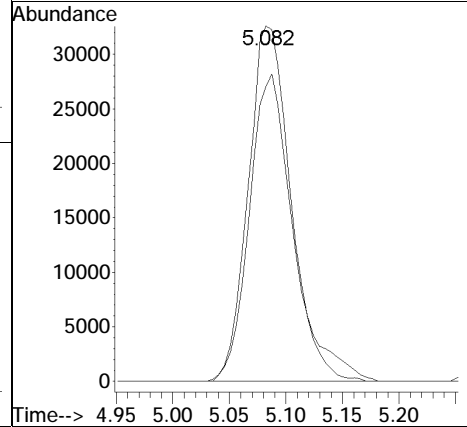
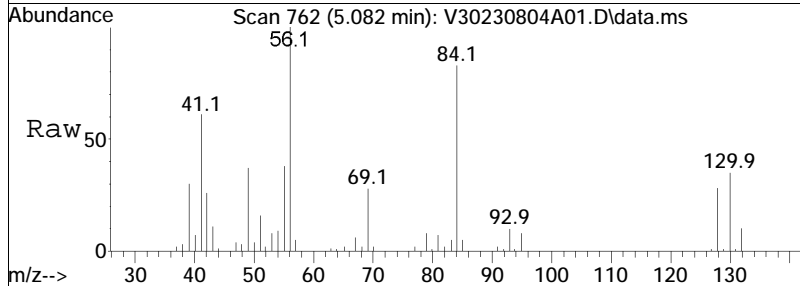
Tgt Ion	Resp	Lower	Upper
96	100		
61	121.8	129.3	193.9#
98	64.0	51.4	77.2

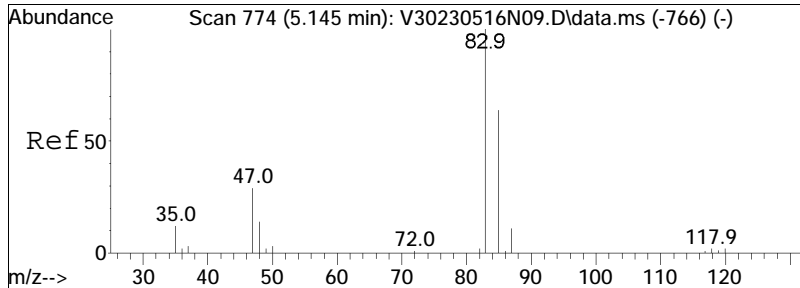




#34
 Cyclohexane
 Concen: 10.54 ug/L
 RT: 5.082 min Scan# 762
 Delta R.T. -0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

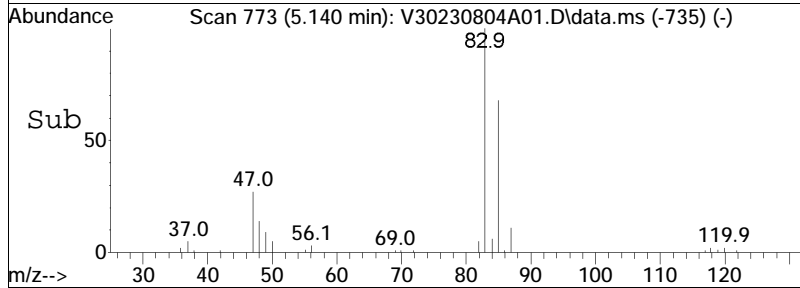
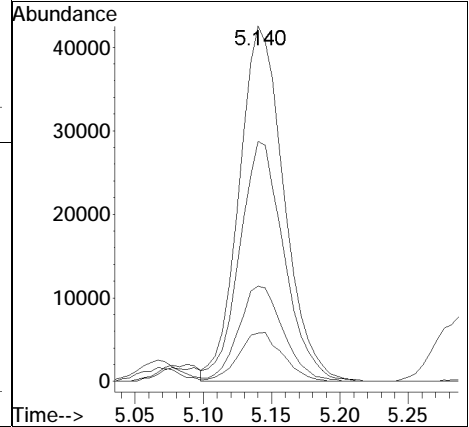
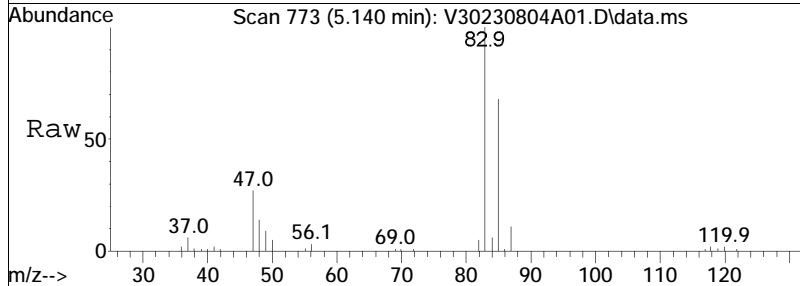
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
56	100		
84	89.7	49.9	103.5

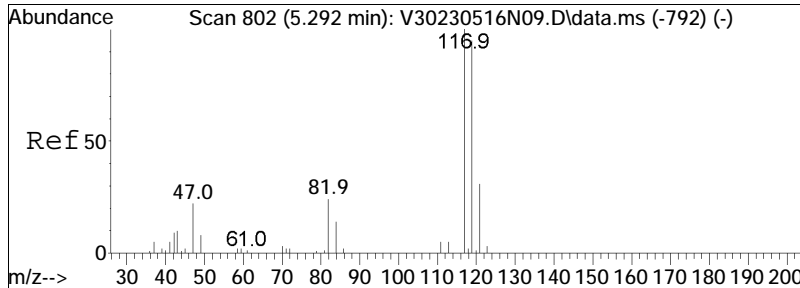




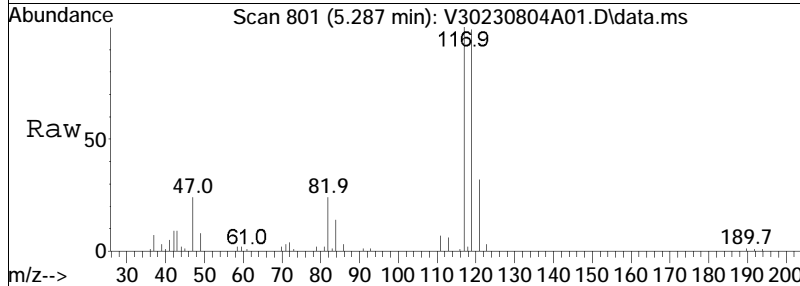
#35
 Chloroform
 Concen: 10.61 ug/L
 RT: 5.140 min Scan# 773
 Delta R.T. -0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

Tgt Ion	Resp	Lower	Upper
83	97511		
85	67.0	41.4	86.0
47	26.7	20.5	42.5
48	13.6	9.9	20.5

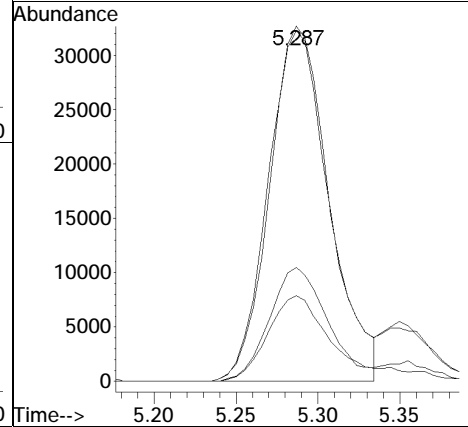
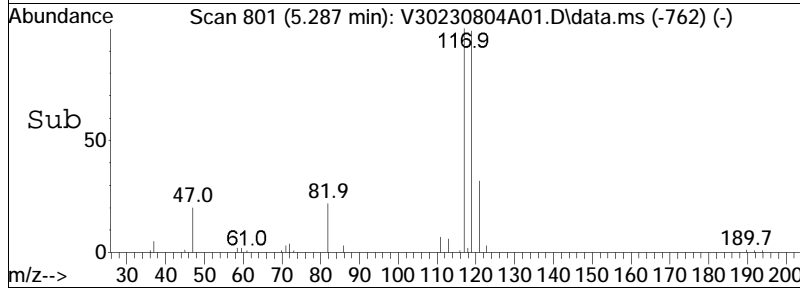


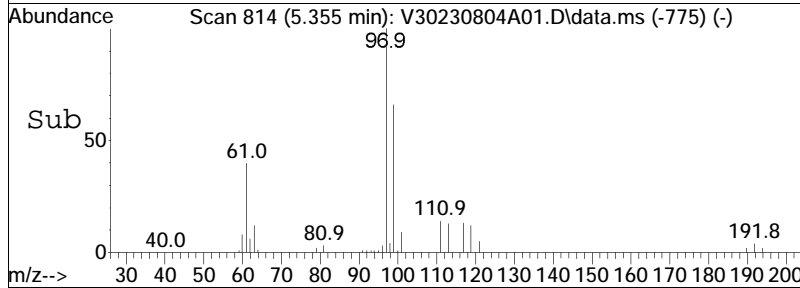
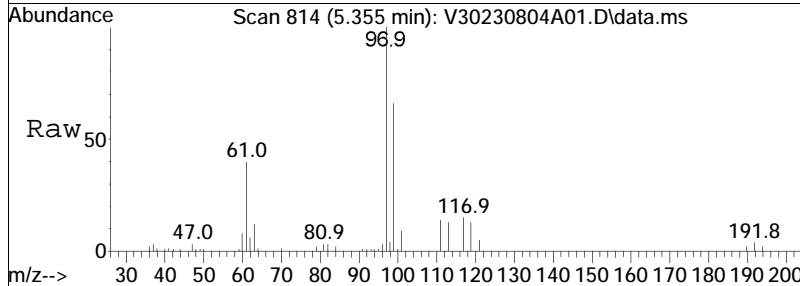
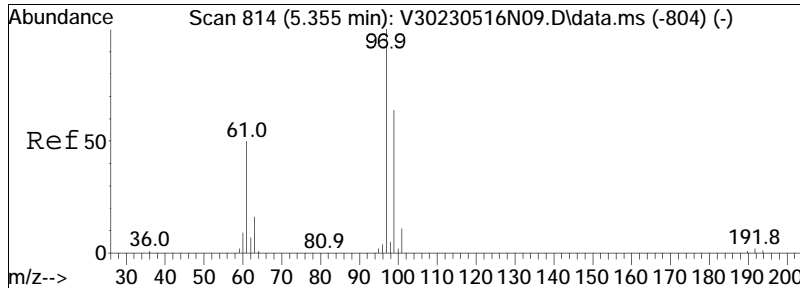


#37
 Carbon tetrachloride
 Concen: 11.39 ug/L
 RT: 5.287 min Scan# 801
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am



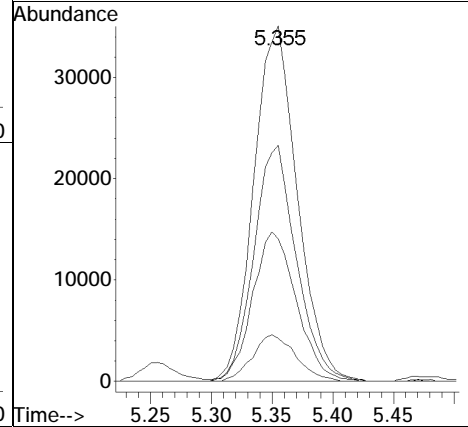
Tgt Ion	Resp	Lower	Upper
117	84215		
117	100		
119	96.8	62.0	128.8
121	31.0	19.6	40.6
82	27.2	18.8	39.0

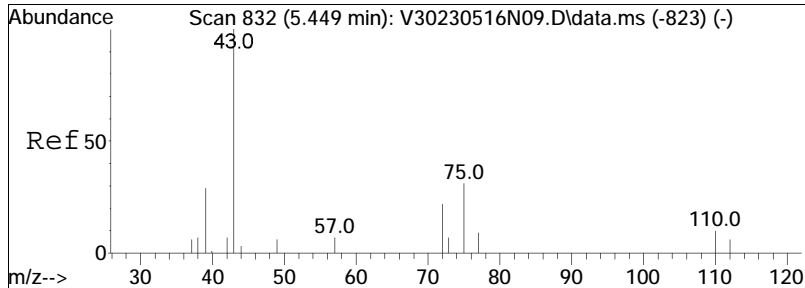




#40
 1,1,1-Trichloroethane
 Concen: 10.72 ug/L
 RT: 5.355 min Scan# 814
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

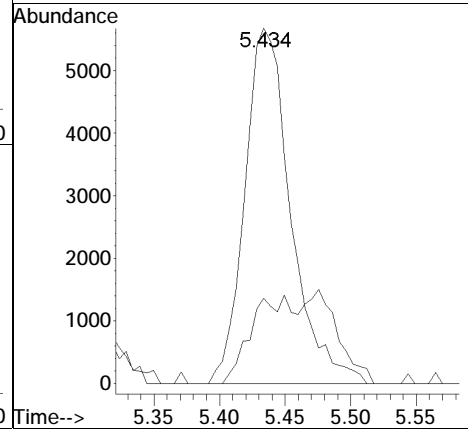
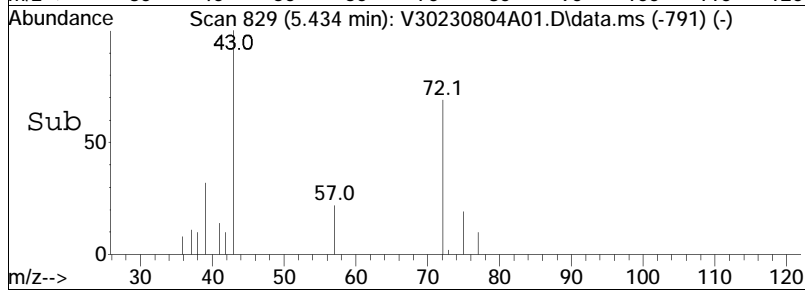
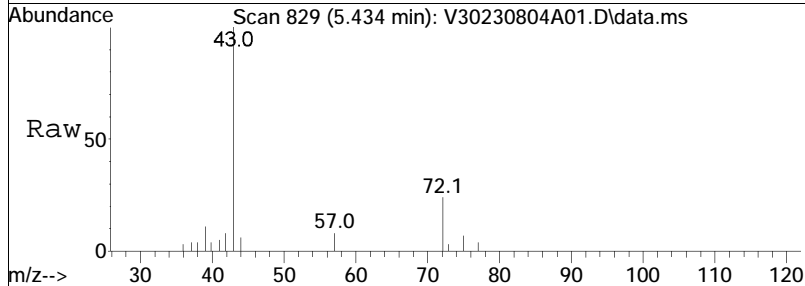
Tgt Ion	Resp	Lower	Upper
97	100		
99	64.9	40.6	84.4
61	42.6	35.0	72.8
63	13.1	11.1	23.0

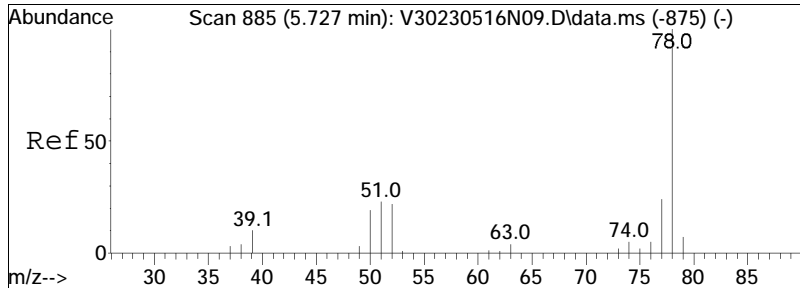




#42
 2-Butanone
 Concen: 8.66 ug/L
 RT: 5.434 min Scan# 829
 Delta R.T. -0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

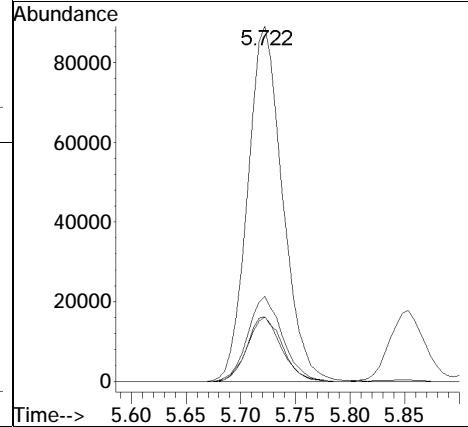
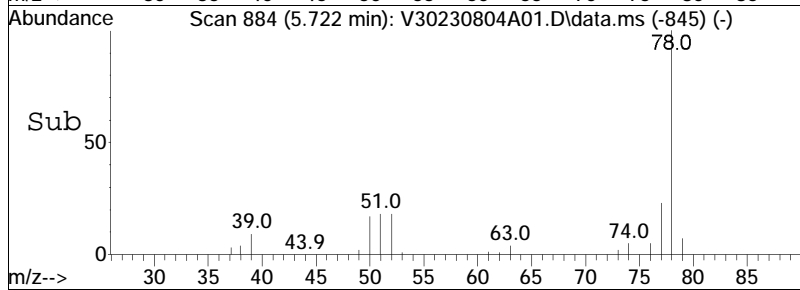
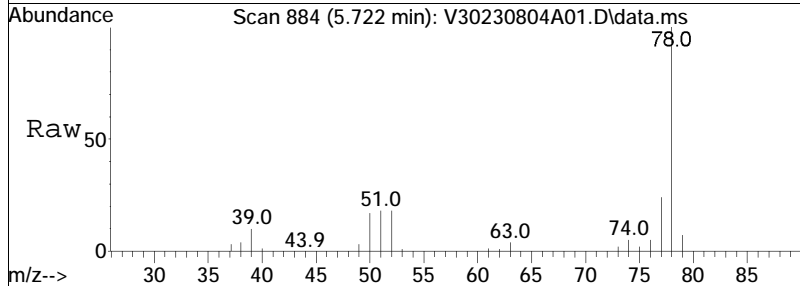
Tgt Ion: 43 Resp: 13846
 Ion Ratio Lower Upper
 43 100
 72 15.4 18.2 27.4#

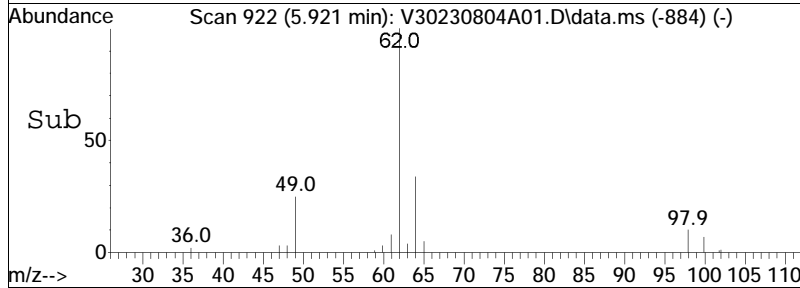
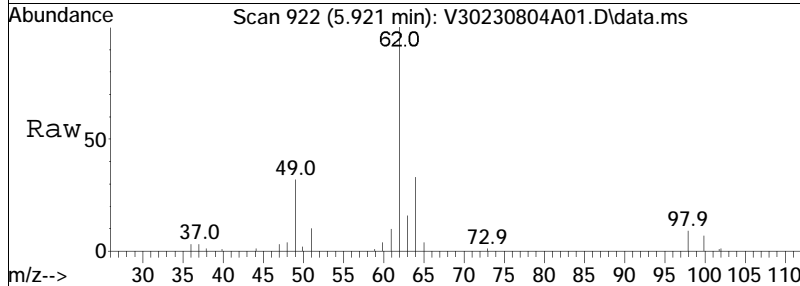
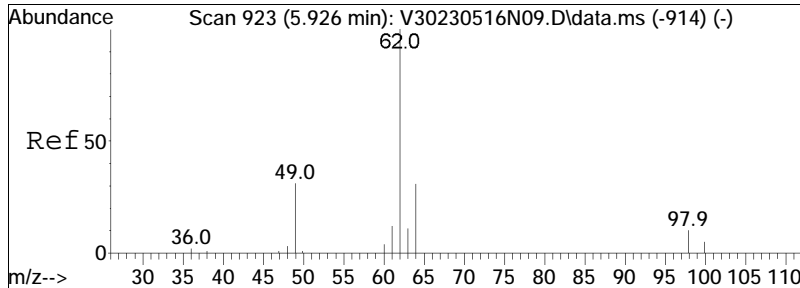




#45
Benzene
Concen: 10.97 ug/L
RT: 5.722 min Scan# 884
Delta R.T. 0.005 min
Lab File: V30230804A01.D
Acq: 04 Aug 2023 06:51 am

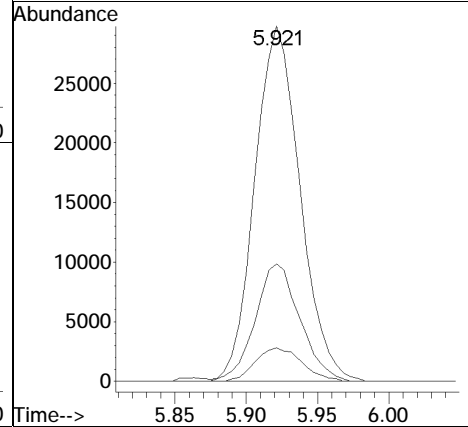
Tgt Ion	Resp	Lower	Upper
78	100		
77	23.8	15.6	32.4
51	18.5	12.9	26.7
52	17.6	12.4	25.7

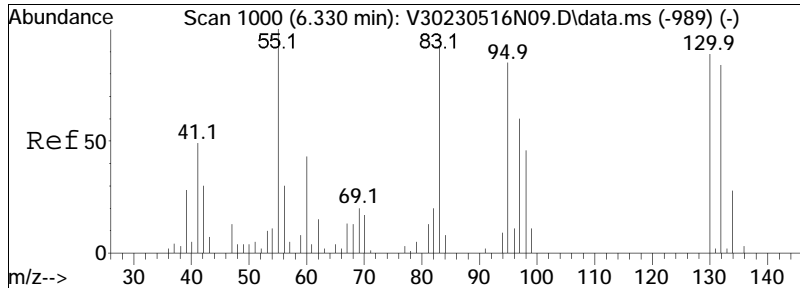




#48
 1,2-Dichloroethane
 Concen: 9.72 ug/L
 RT: 5.921 min Scan# 922
 Delta R.T. -0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

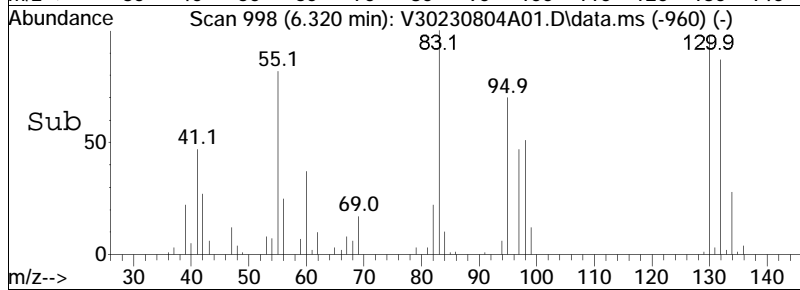
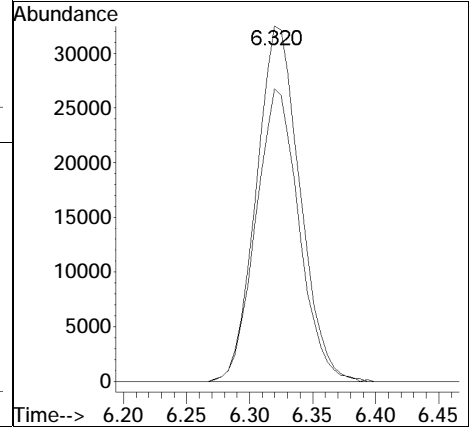
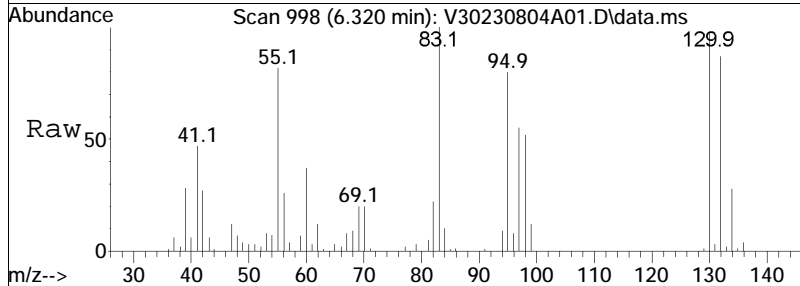
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
62	100		
64	32.7	25.5	38.3
98	9.8	5.5	8.3#

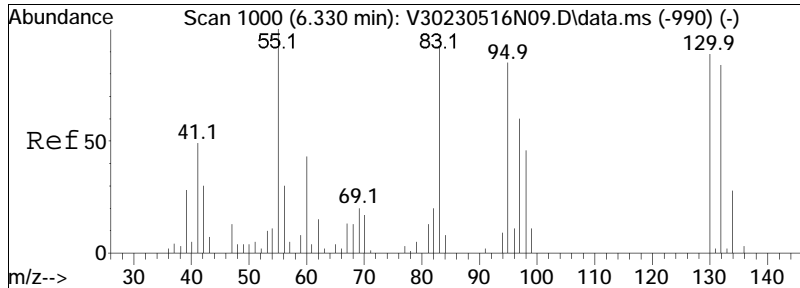




#51
 Methyl cyclohexane
 Concen: 10.31 ug/L
 RT: 6.320 min Scan# 998
 Delta R.T. -0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

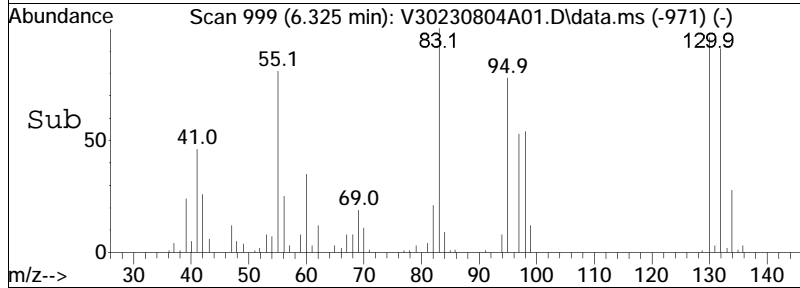
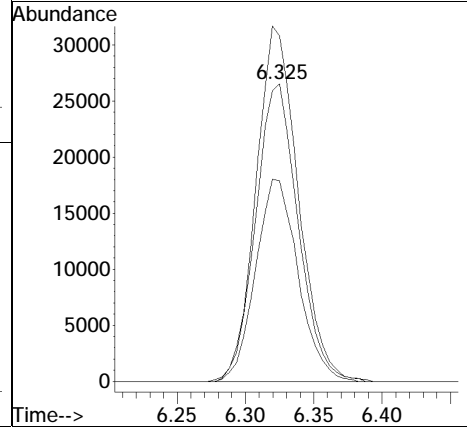
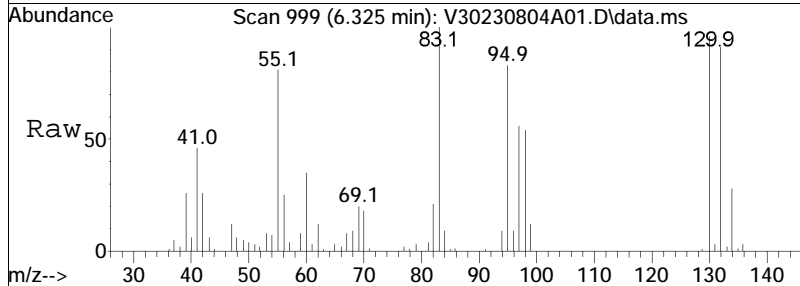
Tgt Ion:	83	Resp:	78133
Ion Ratio	Lower	Upper	
83	100		
55	81.6	74.6	112.0

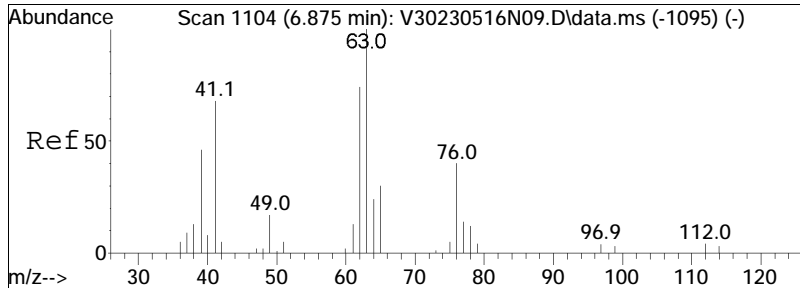




#52
 Trichloroethene
 Concen: 10.33 ug/L
 RT: 6.325 min Scan# 999
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

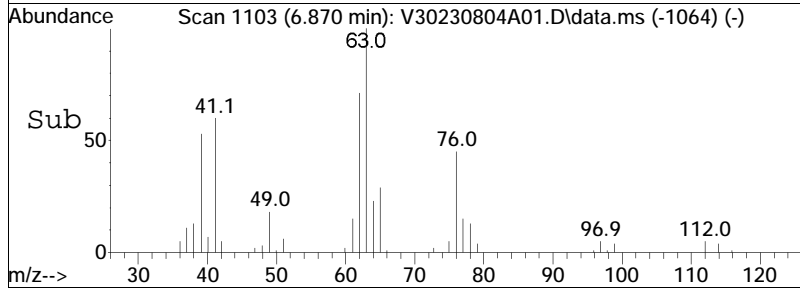
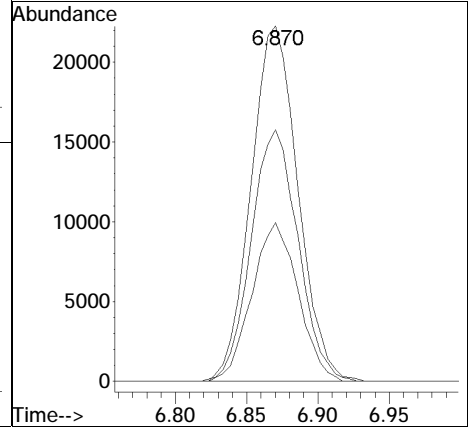
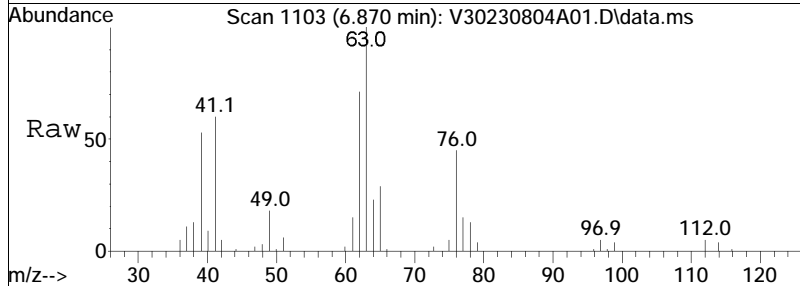
Tgt Ion	Resp	Lower	Upper
95	100		
97	68.0	53.8	80.6
130	118.3	71.4	107.0#

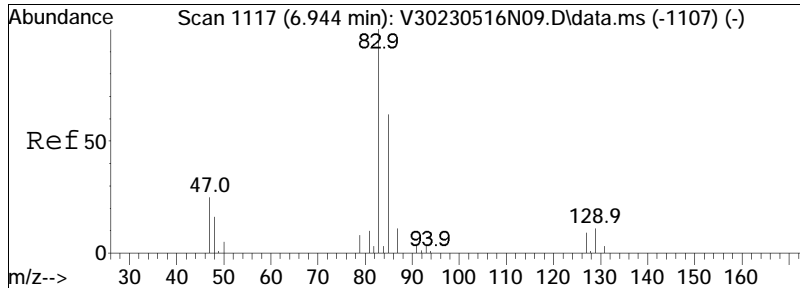




#55
 1,2-Dichloropropane
 Concen: 10.79 ug/L
 RT: 6.870 min Scan# 1103
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

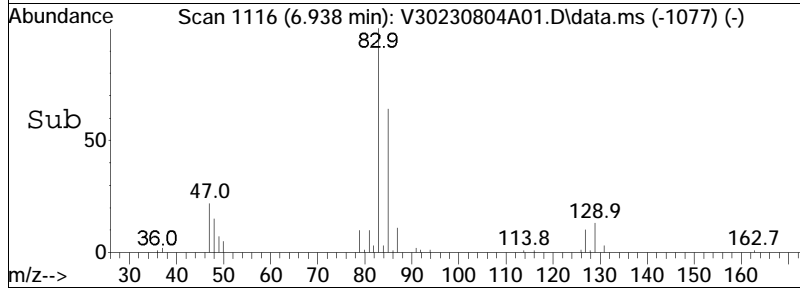
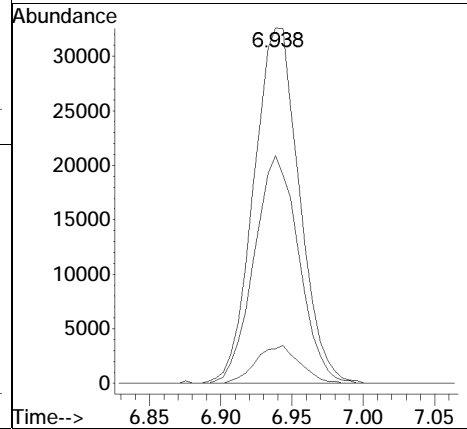
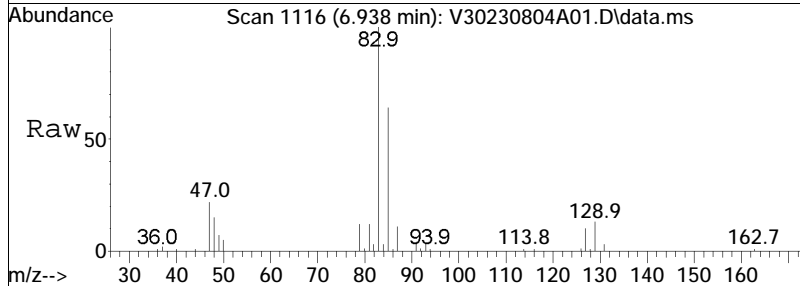
Tgt Ion:	Resp:	Lower	Upper
63	100		
62	70.7	58.1	87.1
76	43.9	30.4	45.6

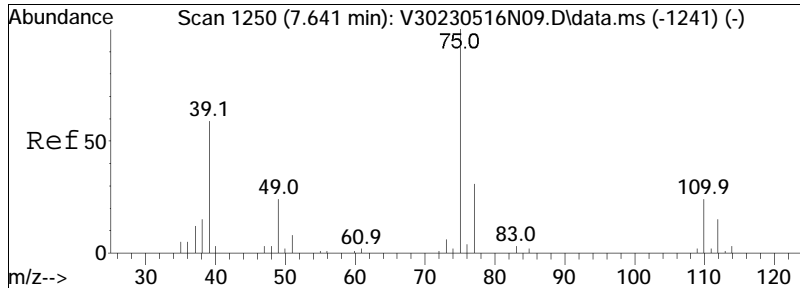




#58
 Bromodichloromethane
 Concen: 10.69 ug/L
 RT: 6.938 min Scan# 1116
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

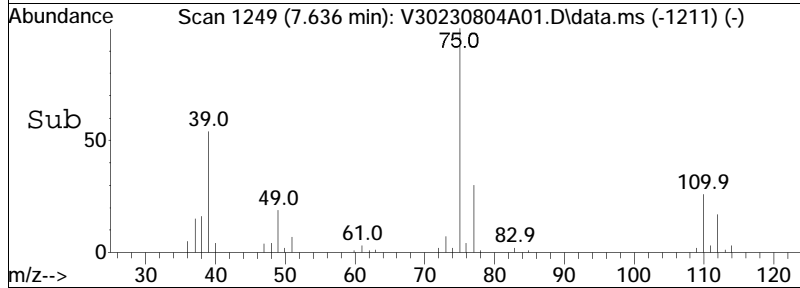
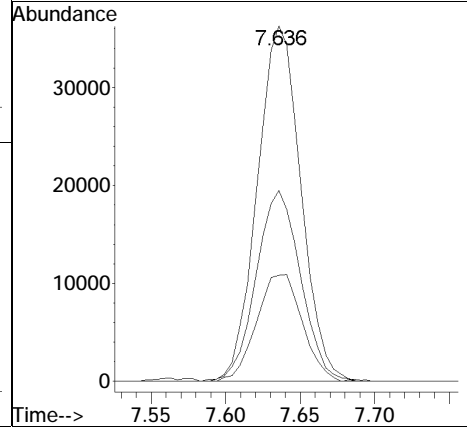
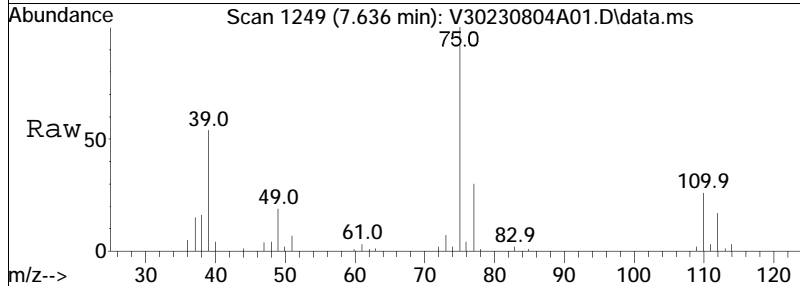
Tgt Ion:	83	Resp:	72608
Ion Ratio	Lower	Upper	
83	100		
85	63.0	50.2	75.2
127	10.3	5.2	7.8#

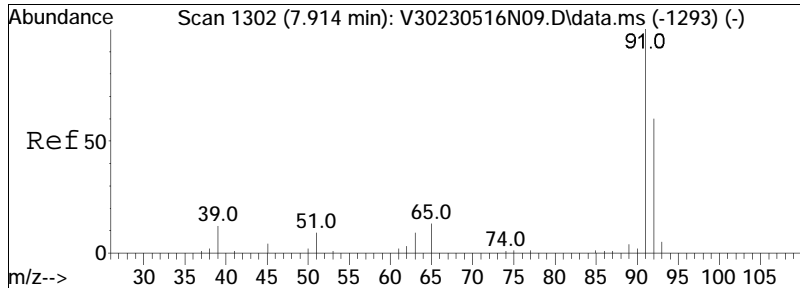




#62
 cis-1,3-Dichloropropene
 Concen: 10.34 ug/L
 RT: 7.636 min Scan# 1249
 Delta R.T. -0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

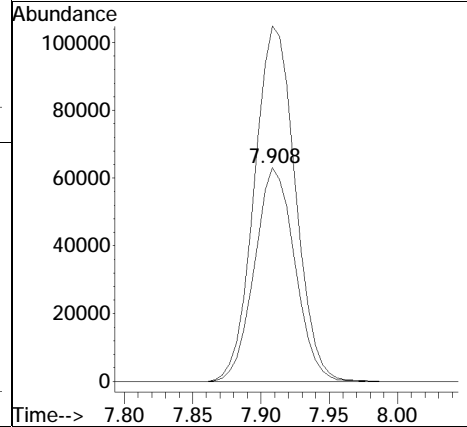
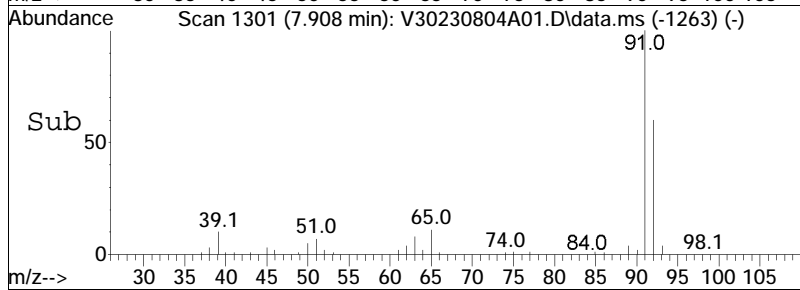
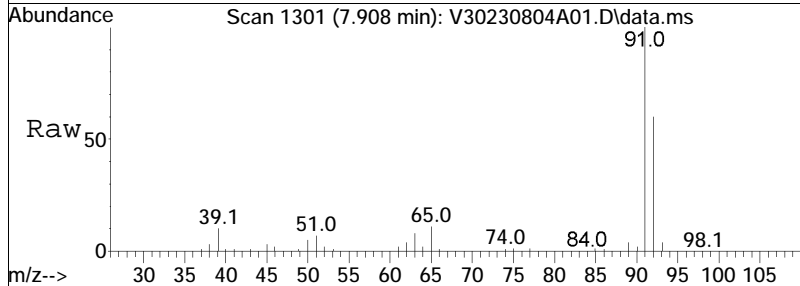
Tgt Ion	Resp	Lower	Upper
75	100		
77	31.6	25.4	38.2
39	54.8	54.6	82.0

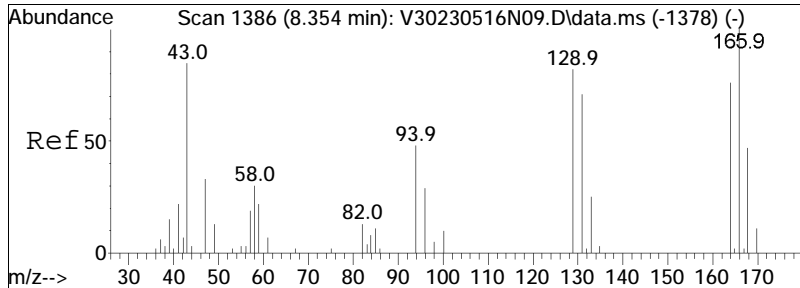




#65
 Toluene
 Concen: 9.62 ug/L
 RT: 7.908 min Scan# 1301
 Delta R.T. -0.000 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

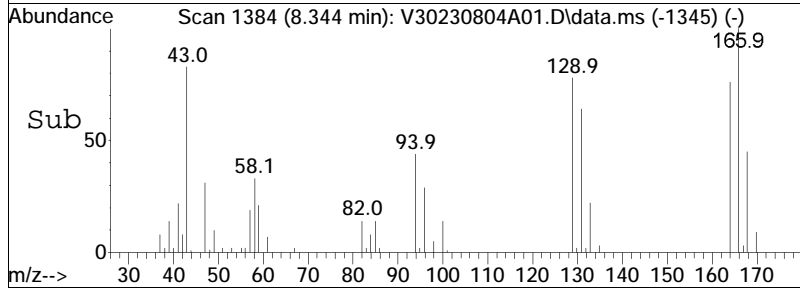
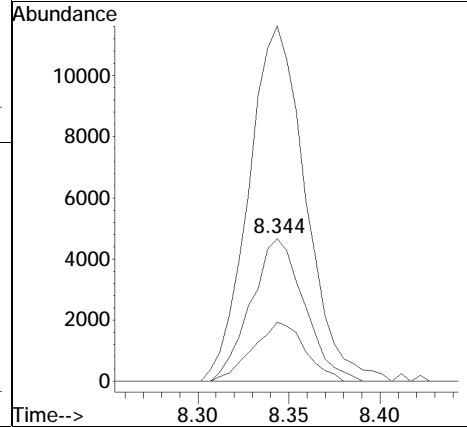
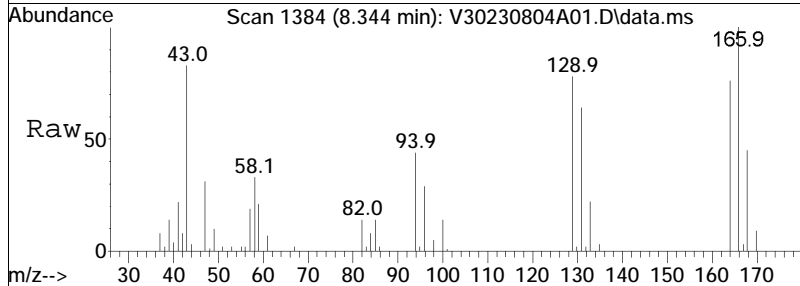
Tgt Ion:	Resp:	Lower	Upper
92	129287		
91	168.8	137.5	206.3

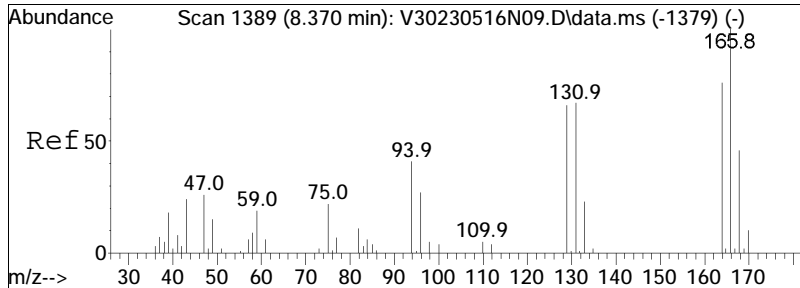




#66
 4-Methyl-2-pentanone
 Concen: 7.09 ug/L
 RT: 8.344 min Scan# 1384
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

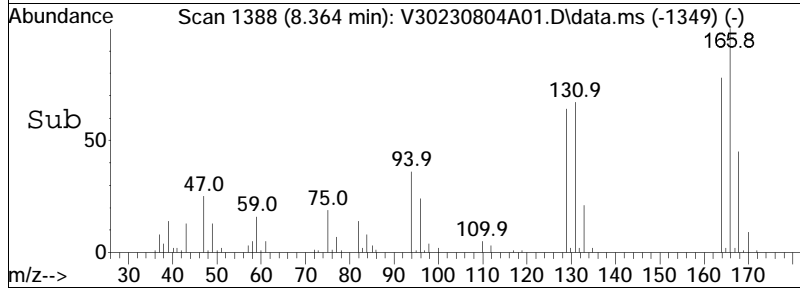
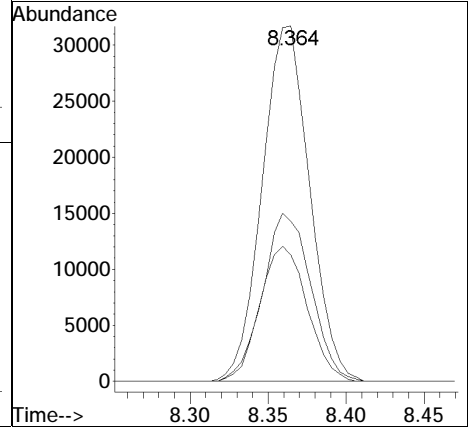
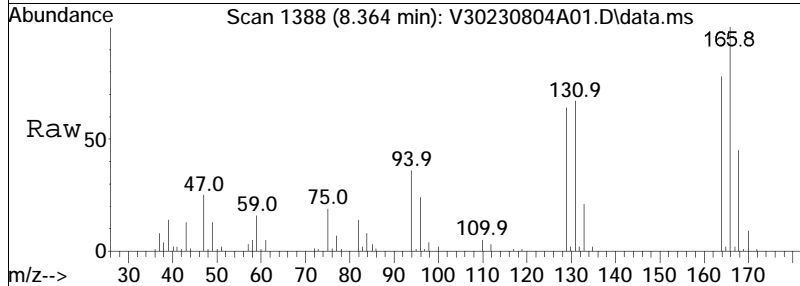
Tgt Ion	Resp	Lower	Upper
58	100		
100	40.8	22.6	34.0#
43	265.9	234.6	351.8

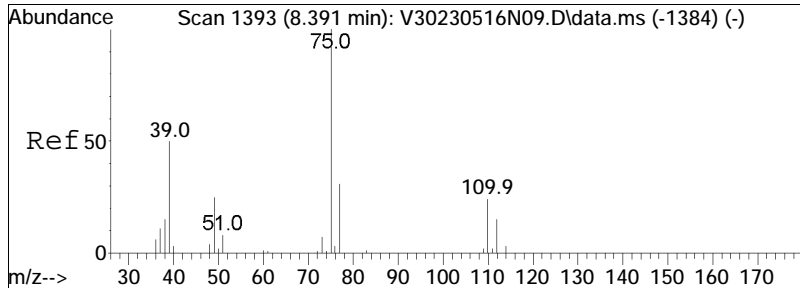




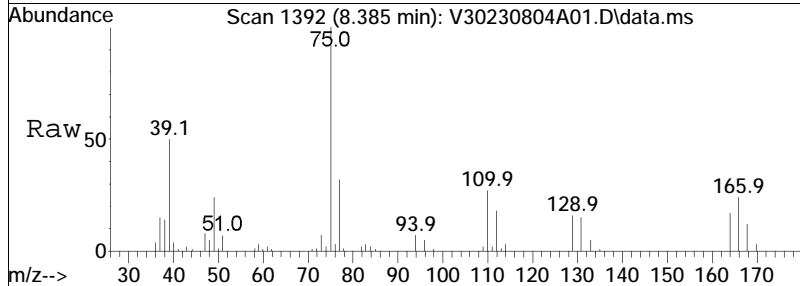
#67
 Tetrachloroethene
 Concen: 10.90 ug/L
 RT: 8.364 min Scan# 1388
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

Tgt Ion	Resp	Lower	Upper
166	100		
168	47.6	38.6	58.0
94	38.4	42.6	63.8#

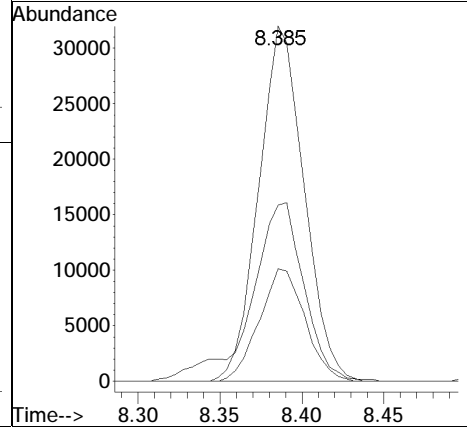
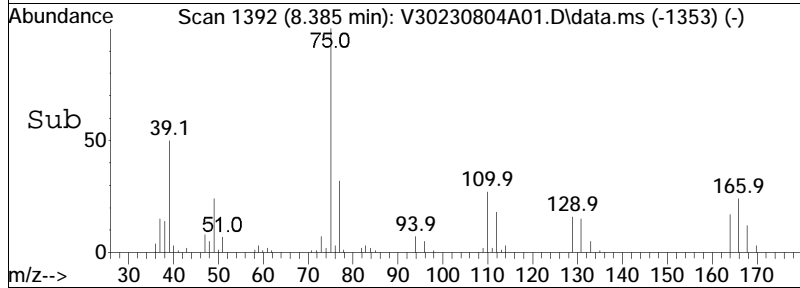


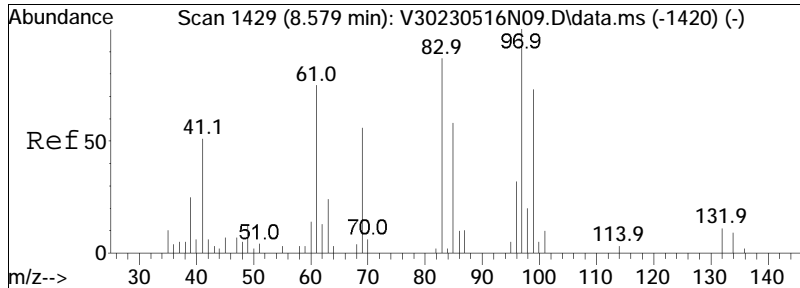


#69
 trans-1,3-Dichloropropene
 Concen: 8.85 ug/L
 RT: 8.385 min Scan# 1392
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am



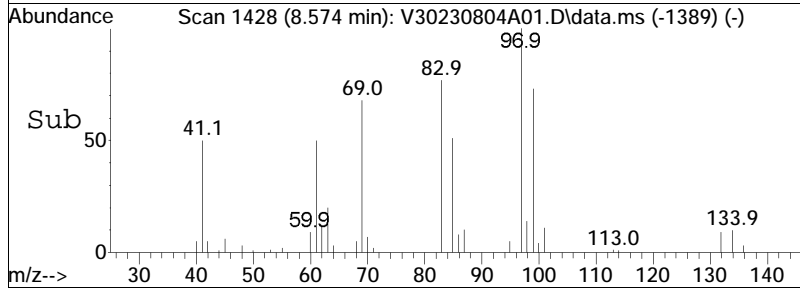
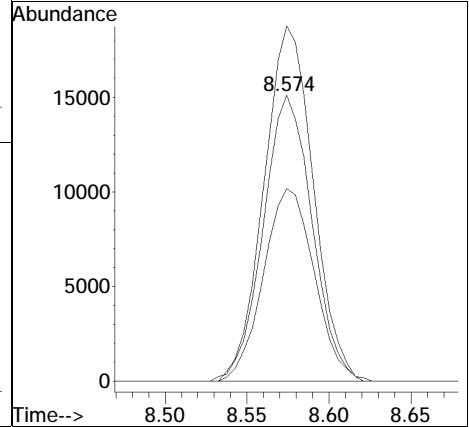
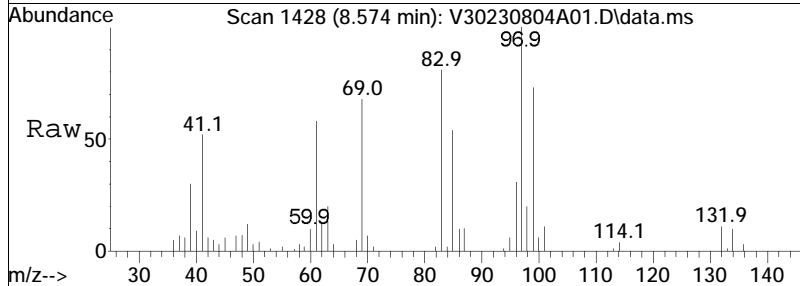
Tgt Ion:	75	Resp:	61633
Ion Ratio	Lower	Upper	
75	100		
77	32.0	25.6	38.4
39	58.6	60.2	90.4#

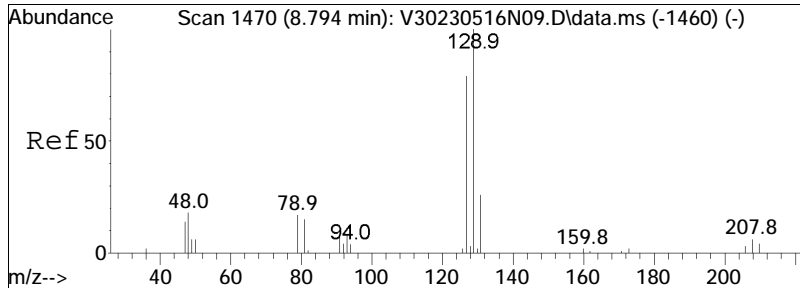




#72
 1,1,2-Trichloroethane
 Concen: 8.68 ug/L
 RT: 8.574 min Scan# 1428
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

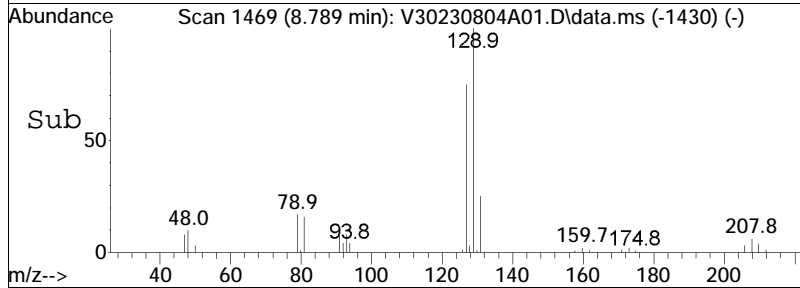
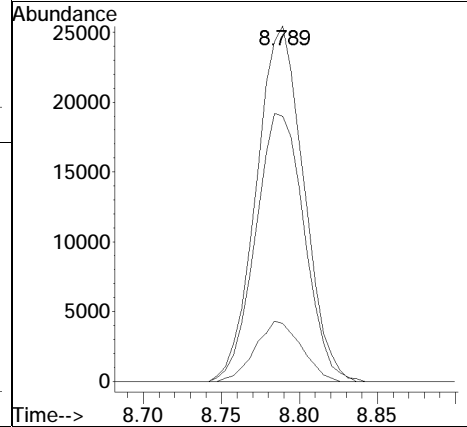
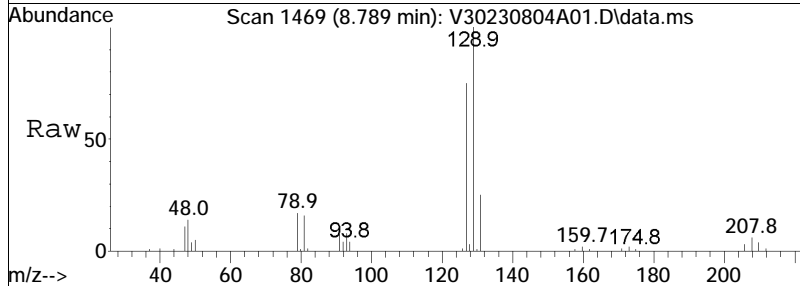
Tgt Ion	Resp	Lower	Upper
83	31364		
83	100		
97	125.4	87.7	131.5
85	70.0	53.1	79.7

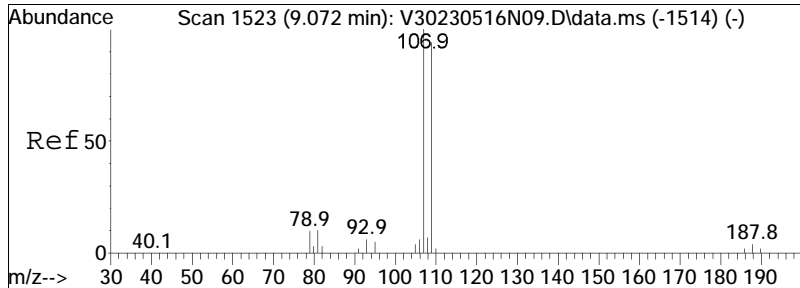




#73
 Chlorodibromomethane
 Concen: 9.32 ug/L
 RT: 8.789 min Scan# 1469
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

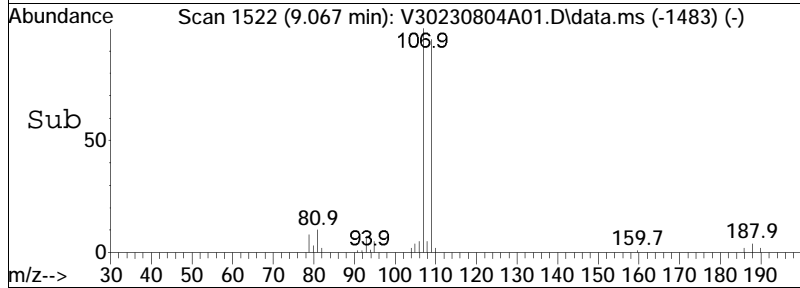
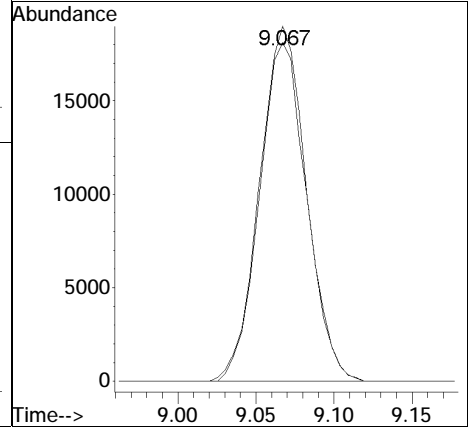
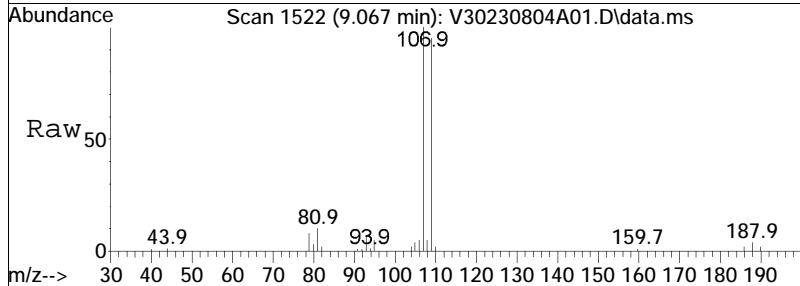
Tgt Ion	Resp	Lower	Upper
129	53747		
129	100		
81	16.4	14.6	22.0
127	77.4	62.6	93.8

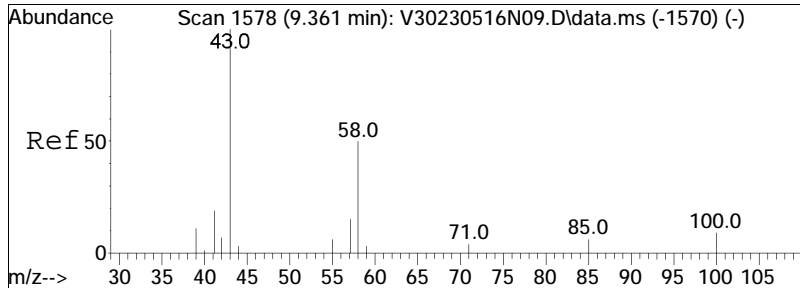




#75
 1,2-Dibromoethane
 Concen: 8.90 ug/L
 RT: 9.067 min Scan# 1522
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

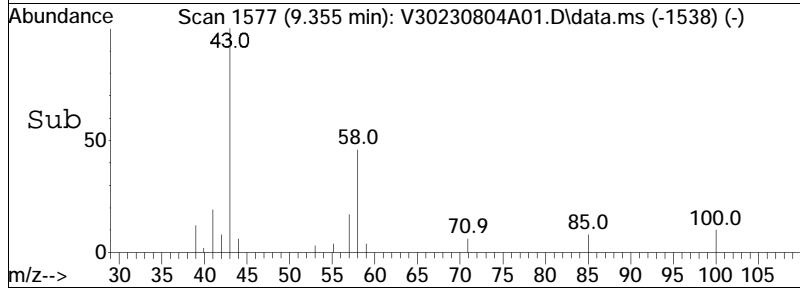
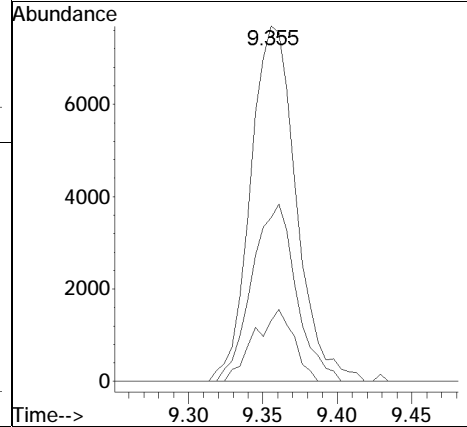
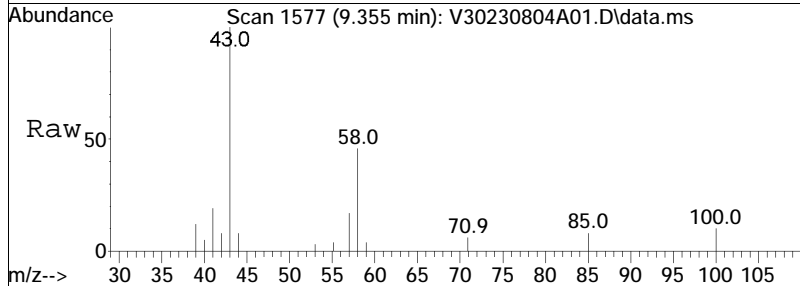
Tgt Ion	Resp	Lower	Upper
107	39637		
109	95.8	75.0	112.4

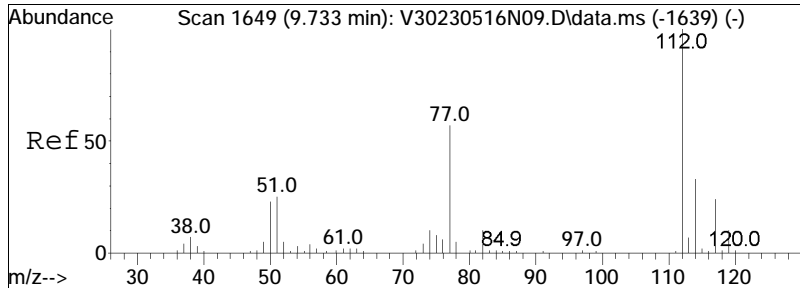




#77
 2-Hexanone
 Concen: 6.21 ug/L
 RT: 9.355 min Scan# 1577
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

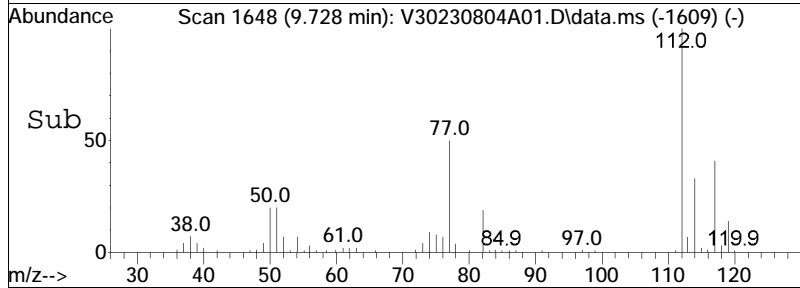
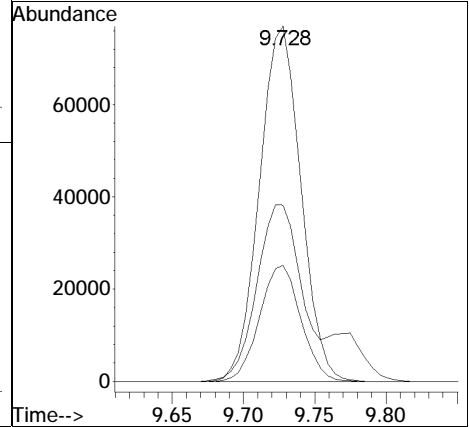
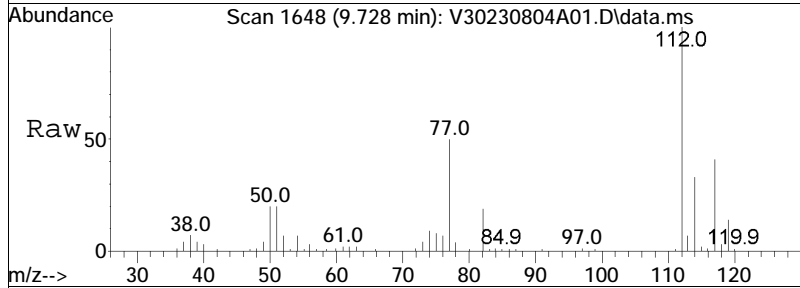
Tgt Ion	Resp	Lower	Upper
43	16393		
58	48.6	38.6	58.0
57	17.6	14.1	21.1

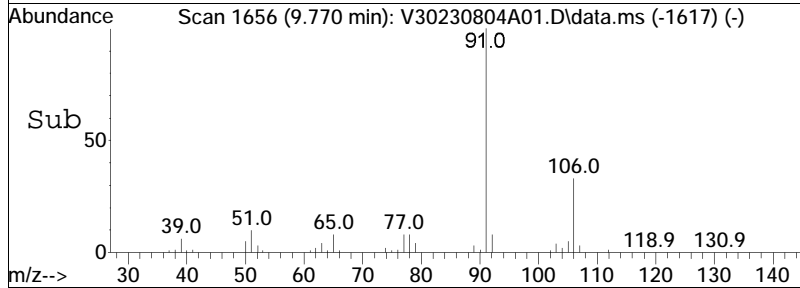
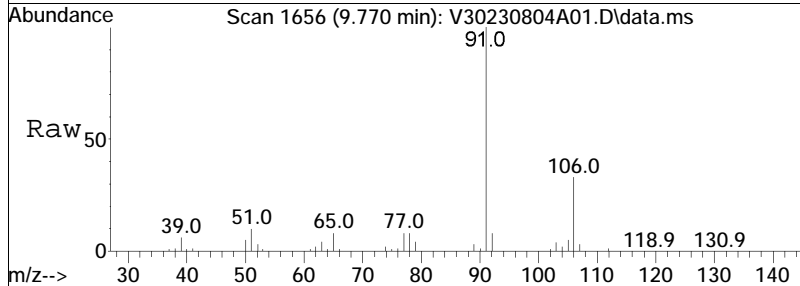
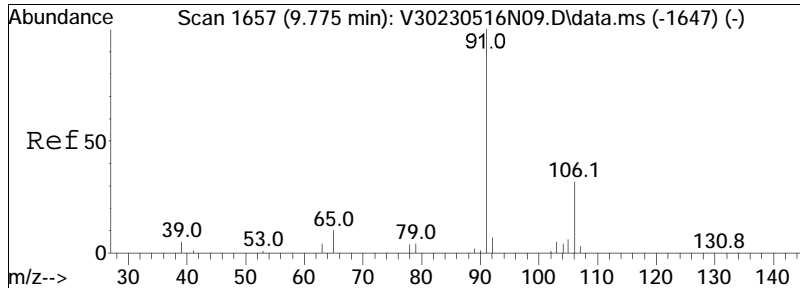




#78
 Chlorobenzene
 Concen: 9.88 ug/L
 RT: 9.728 min Scan# 1648
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

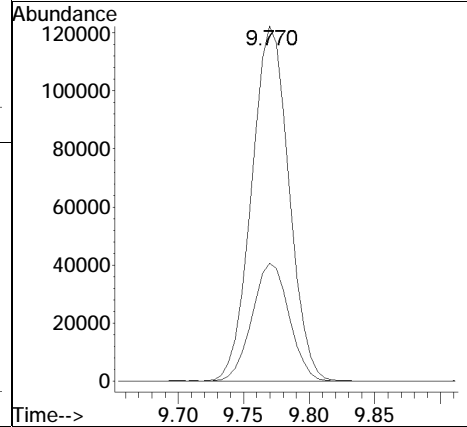
Tgt Ion	Resp	Lower	Upper
112	100		
77	53.4	54.8	82.2#
114	32.5	25.4	38.0

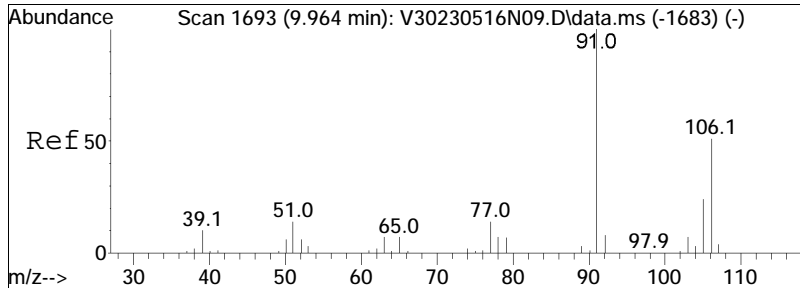




#79
 Ethylbenzene
 Concen: 9.32 ug/L
 RT: 9.770 min Scan# 1656
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

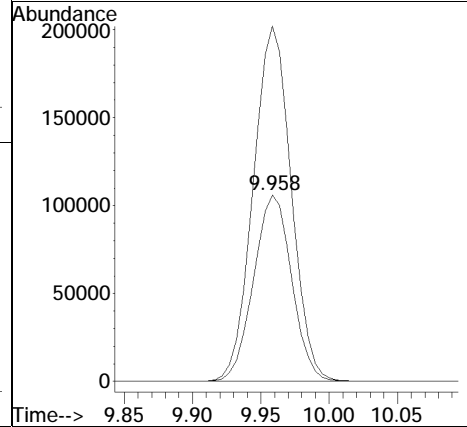
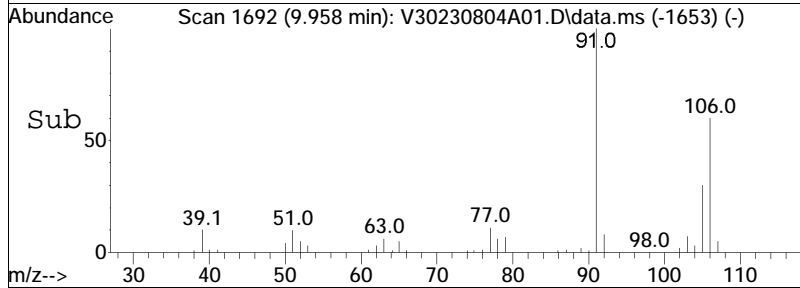
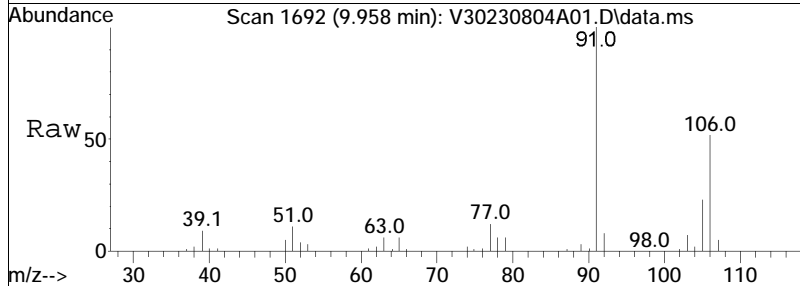
Tgt Ion: 91 Resp: 242228
 Ion Ratio Lower Upper
 91 100
 106 33.1 23.4 35.2

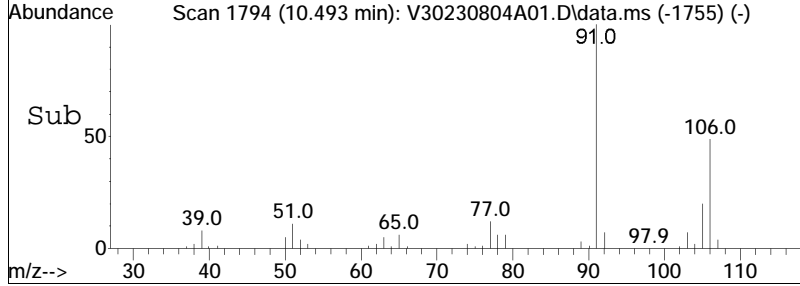
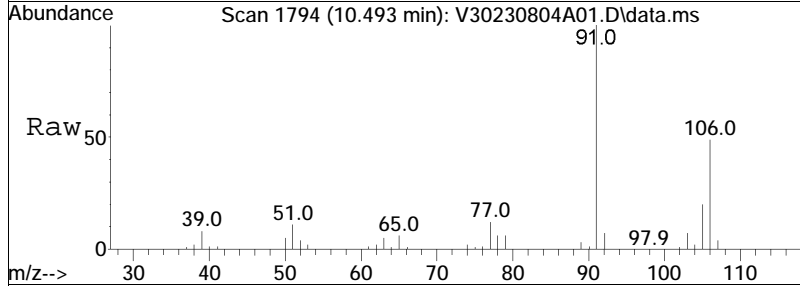
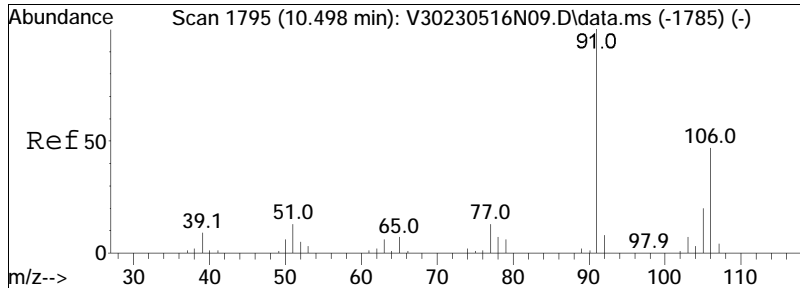




#81
 p/m Xylene
 Concen: 19.15 ug/L
 RT: 9.958 min Scan# 1692
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

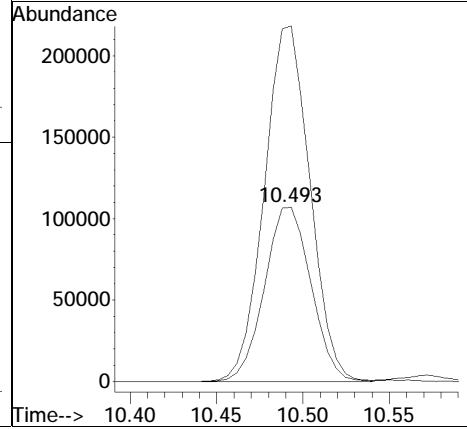
Tgt Ion	106	91	Resp	205492
Ion Ratio	100	190.0	Lower	Upper
			171.4	257.2

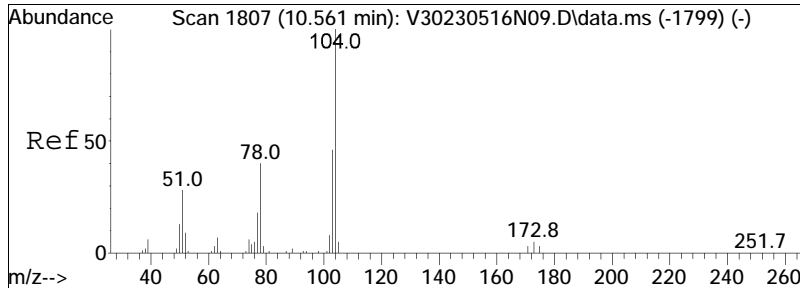




#82
 o Xylene
 Concen: 18.89 ug/L
 RT: 10.493 min Scan# 1794
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

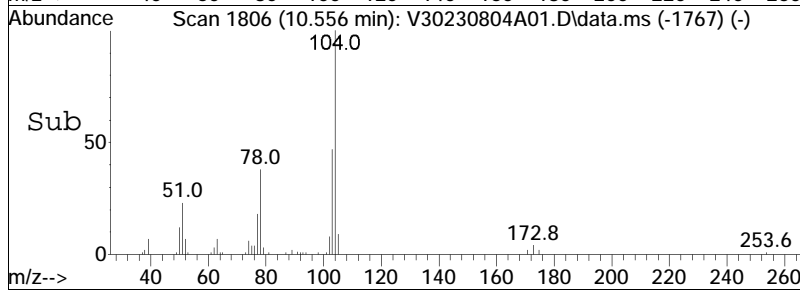
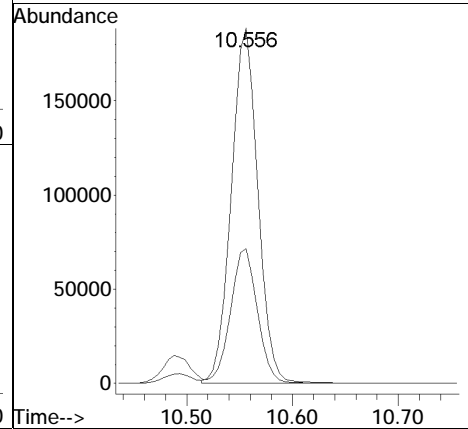
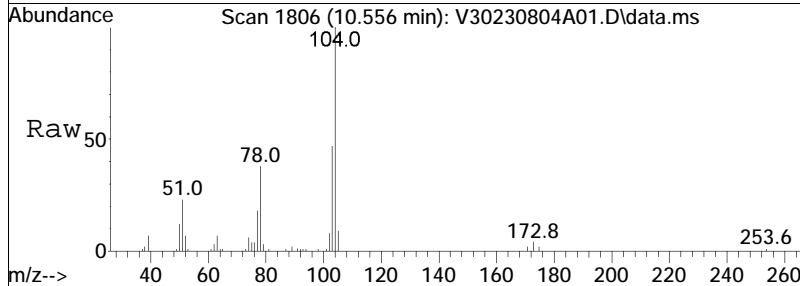
Tgt Ion	106	91	Resp	200062
Ion Ratio	100	200.4	Lower	Upper
			179.2	268.8

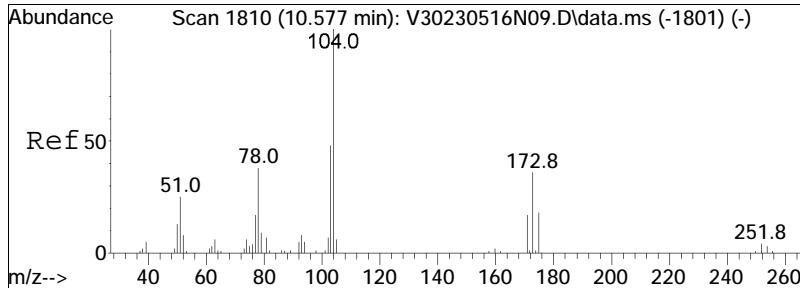




#83
 Styrene
 Concen: 19.19 ug/L
 RT: 10.556 min Scan# 1806
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

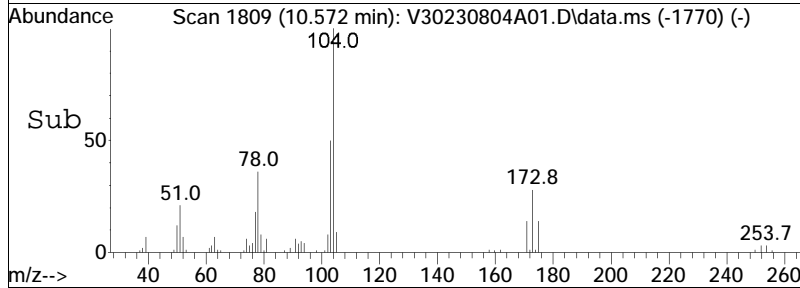
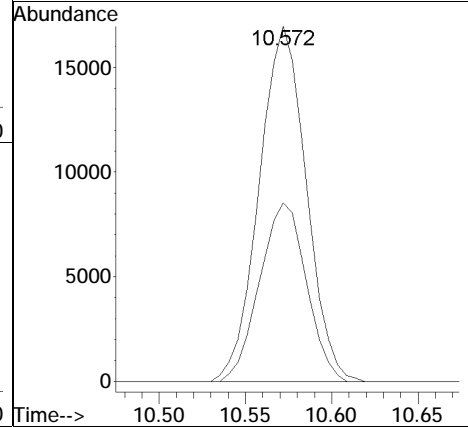
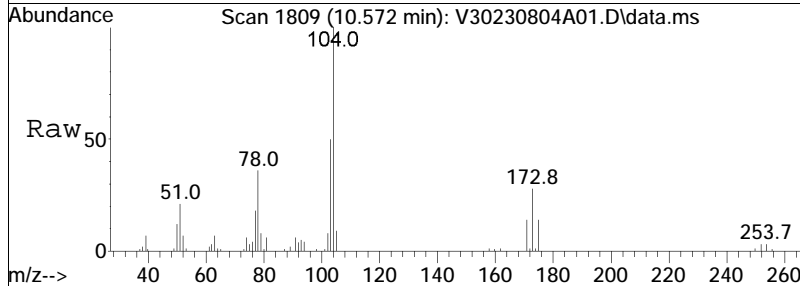
Tgt Ion	Resp	Lower	Upper
104	100		
78	38.2	38.1	57.1

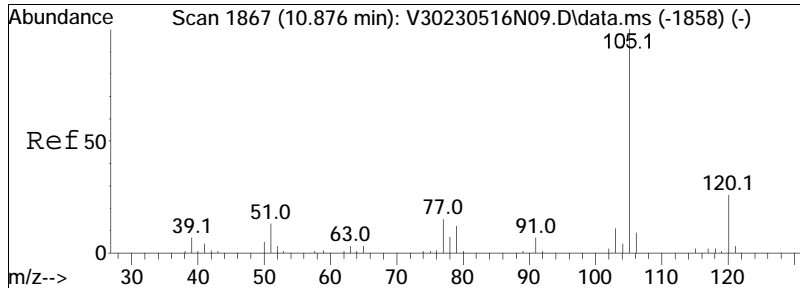




#85
 Bromoform
 Concen: 8.62 ug/L
 RT: 10.572 min Scan# 1809
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

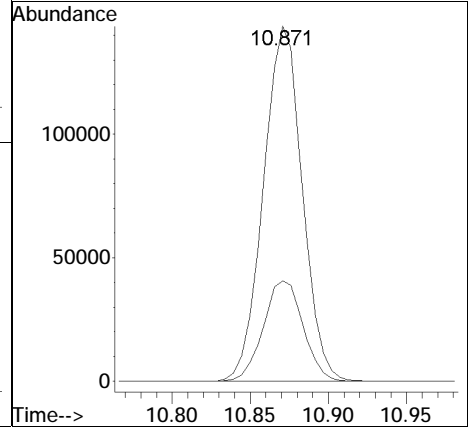
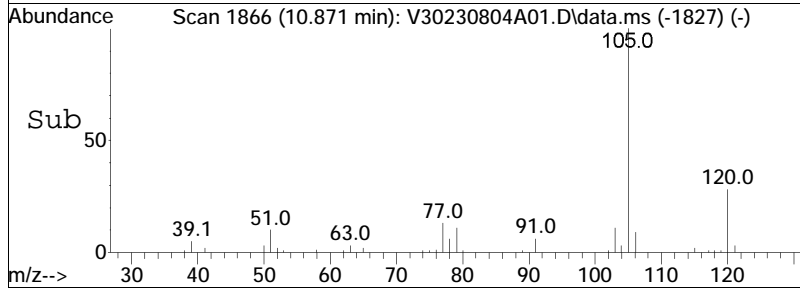
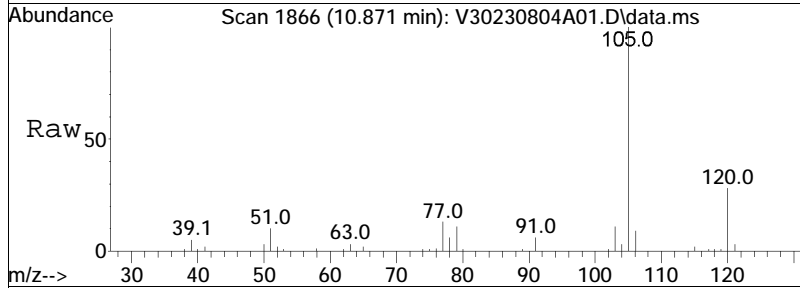
Tgt Ion	Resp	Lower	Upper
173	32154		
173	100		
175	49.8	37.8	56.6

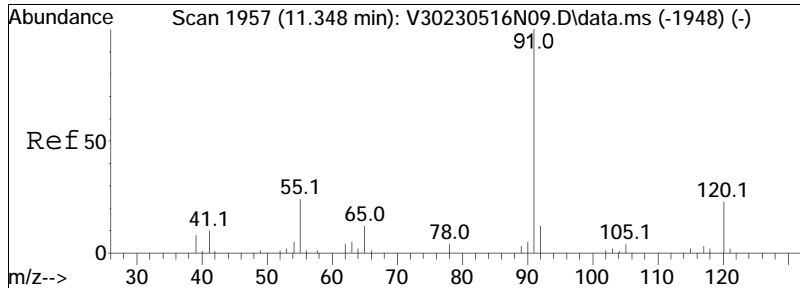




#87
 Isopropylbenzene
 Concen: 8.86 ug/L
 RT: 10.871 min Scan# 1866
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

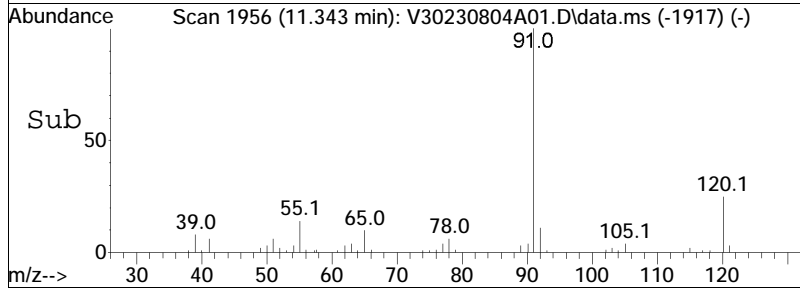
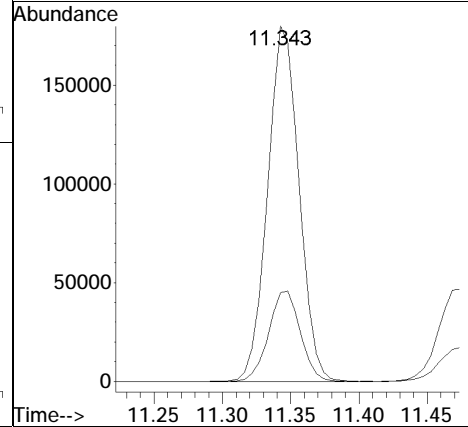
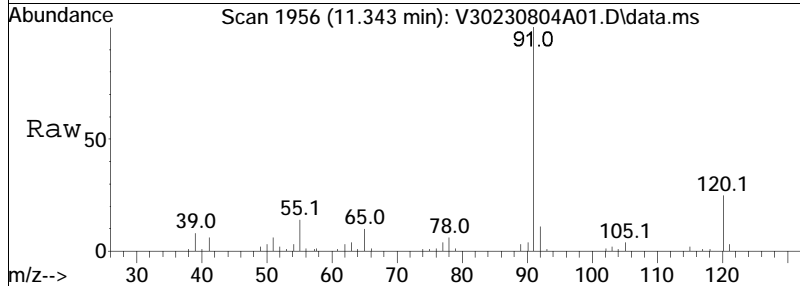
Tgt Ion	105	120	Resp	Lower	Upper
Ion Ratio	100	29.0	248373	20.0	30.0

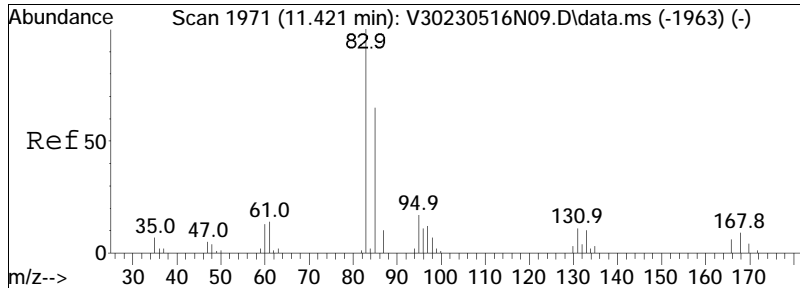




#90
 n-Propylbenzene
 Concen: 8.93 ug/L
 RT: 11.343 min Scan# 1956
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

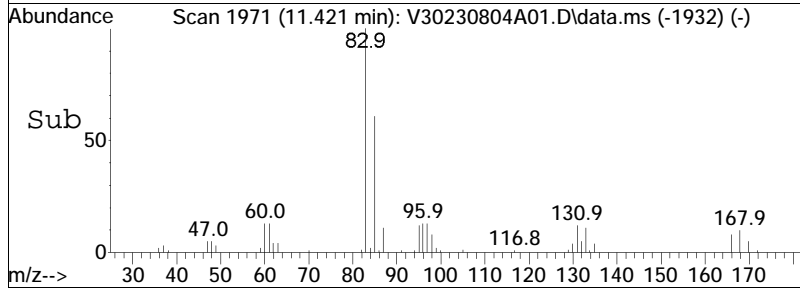
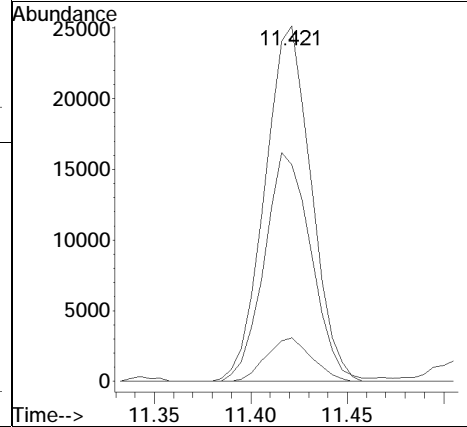
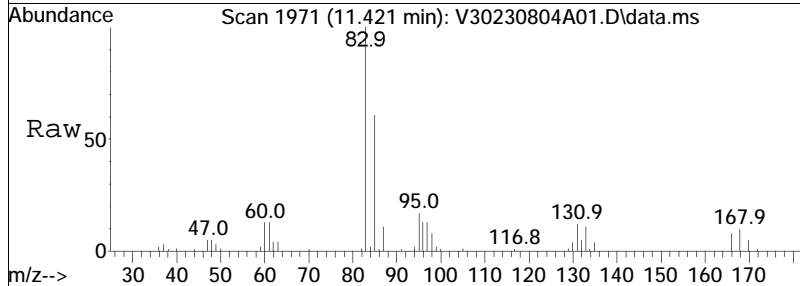
Tgt Ion: 91 Resp: 287225
 Ion Ratio Lower Upper
 91 100
 120 25.6 16.3 24.5#

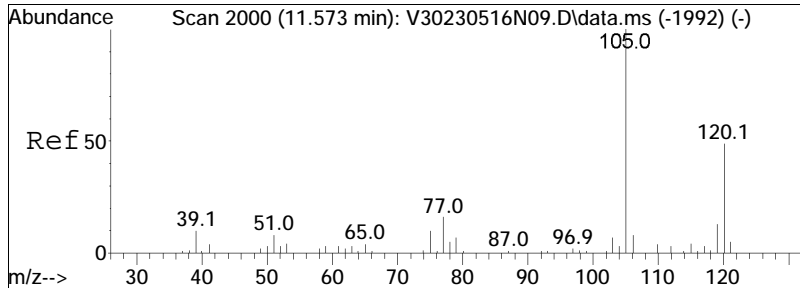




#92
 1,1,2,2-Tetrachloroethane
 Concen: 8.68 ug/L
 RT: 11.421 min Scan# 1971
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

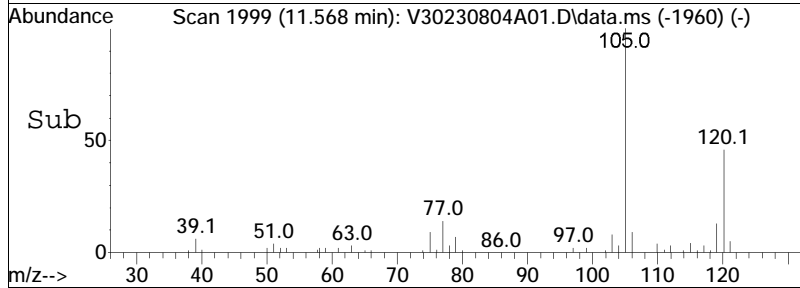
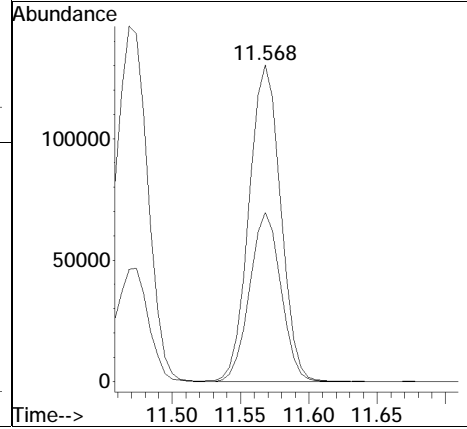
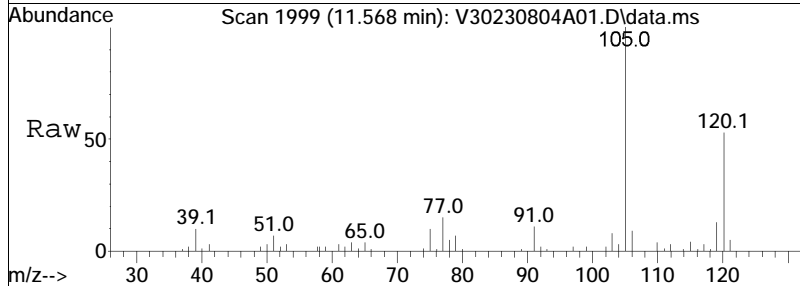
Tgt Ion	Resp	Lower	Upper
83	42118		
83	100		
131	12.0	6.6	10.0#
85	65.0	51.8	77.6

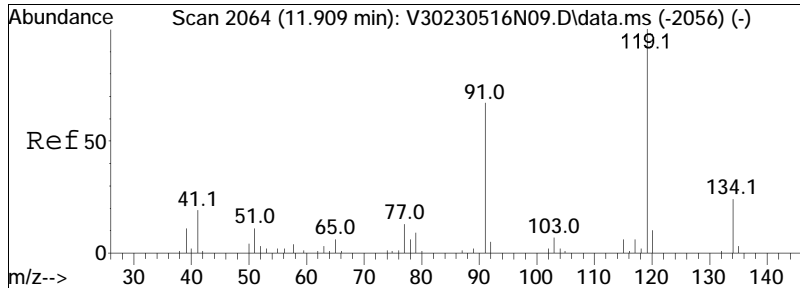




#95
 1,3,5-Trimethylbenzene
 Concen: 9.06 ug/L
 RT: 11.568 min Scan# 1999
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

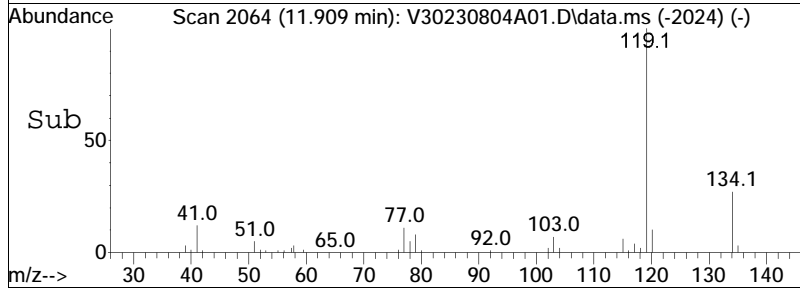
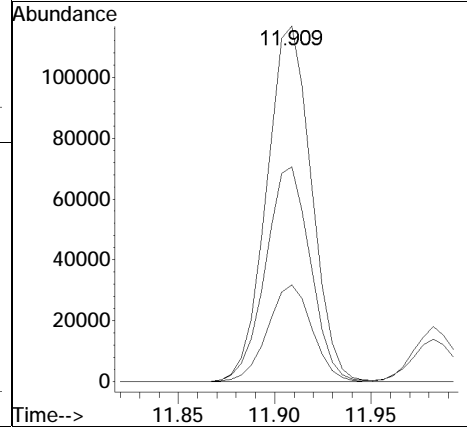
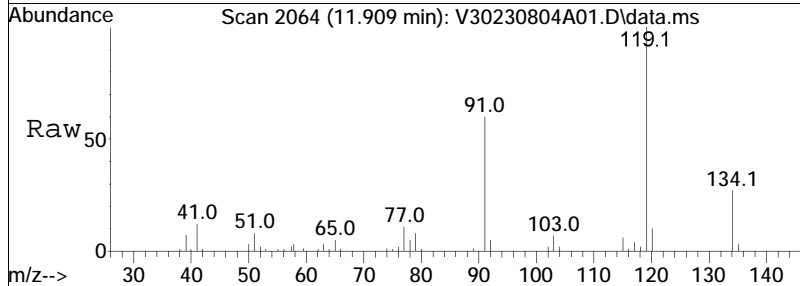
Tgt Ion	Resp	Lower	Upper
105	100		
120	52.6	37.8	56.6

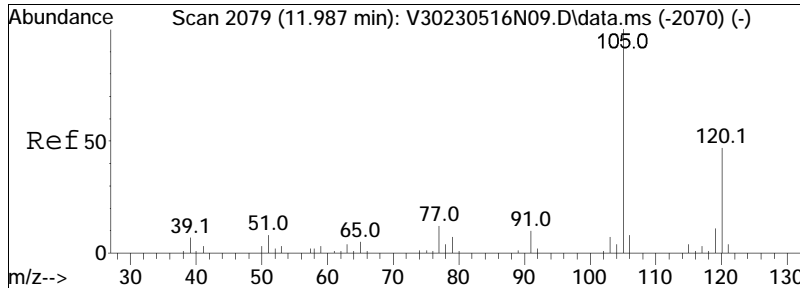




#99
 tert-Butylbenzene
 Concen: 9.00 ug/L
 RT: 11.909 min Scan# 2064
 Delta R.T. 0.010 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

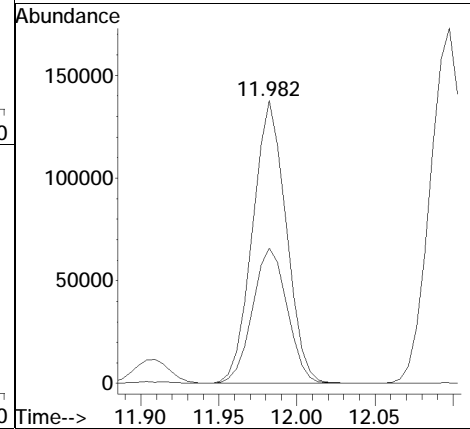
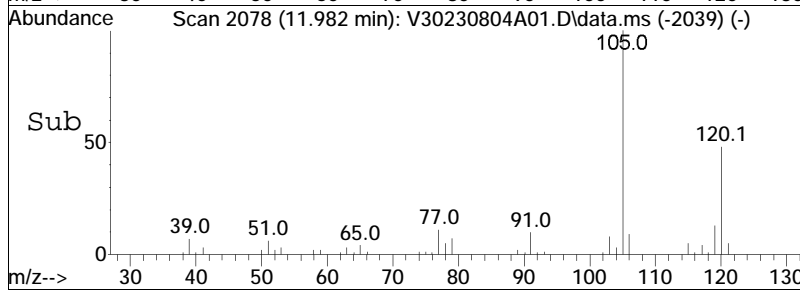
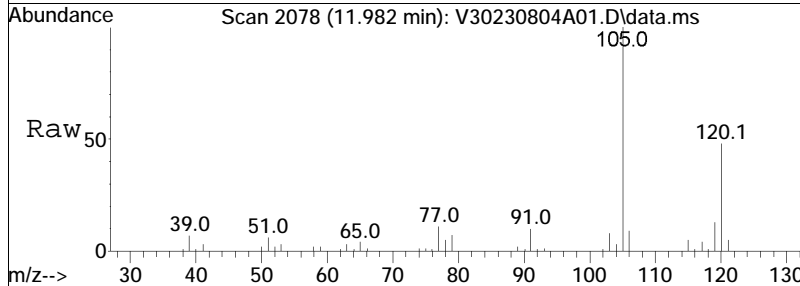
Tgt Ion	Resp	Lower	Upper
119	100		
91	60.4	58.8	88.2
134	26.9	18.6	27.8

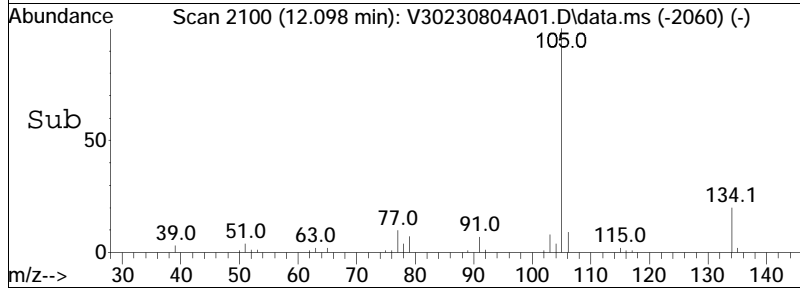
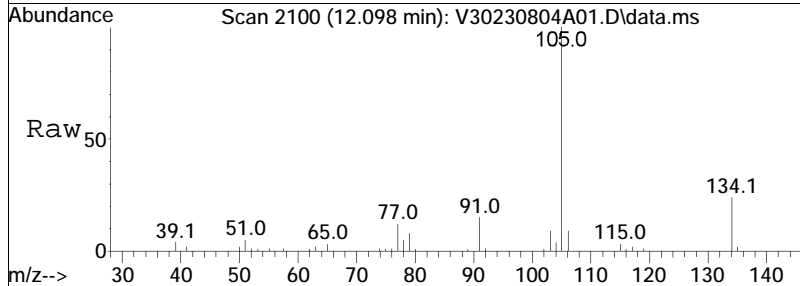
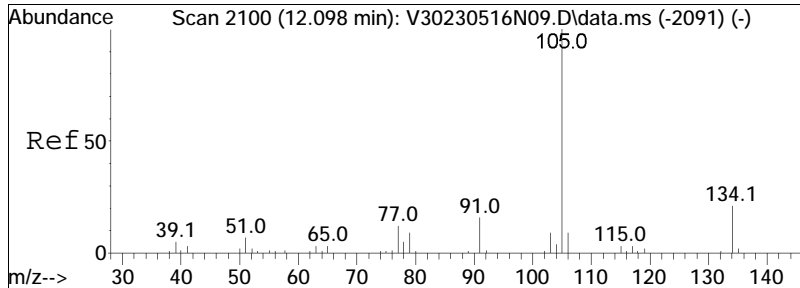




#102
 1,2,4-Trimethylbenzene
 Concen: 9.08 ug/L
 RT: 11.982 min Scan# 2078
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

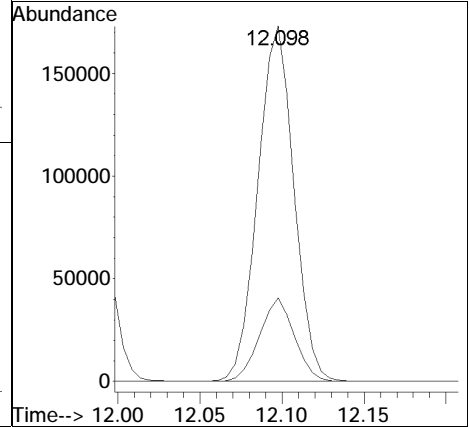
Tgt Ion	105	120	Resp	206511
Ion Ratio	100	49.4	Lower	Upper
			35.2	52.8

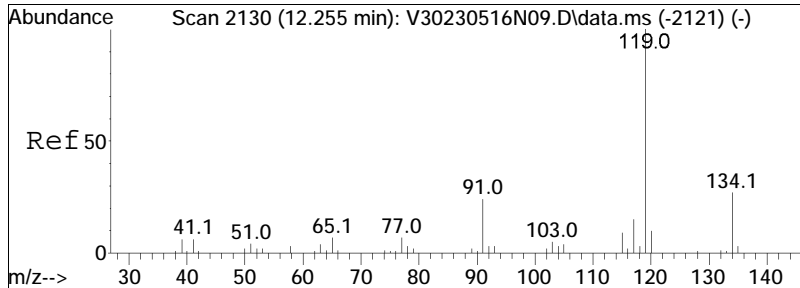




#103
 sec-Butylbenzene
 Concen: 9.05 ug/L
 RT: 12.098 min Scan# 2100
 Delta R.T. 0.010 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

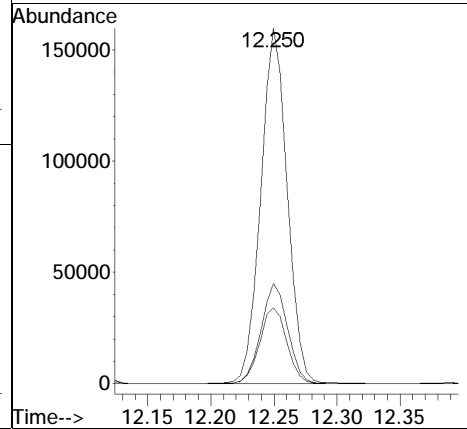
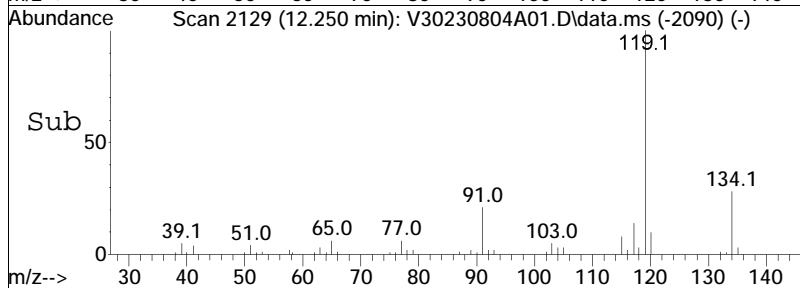
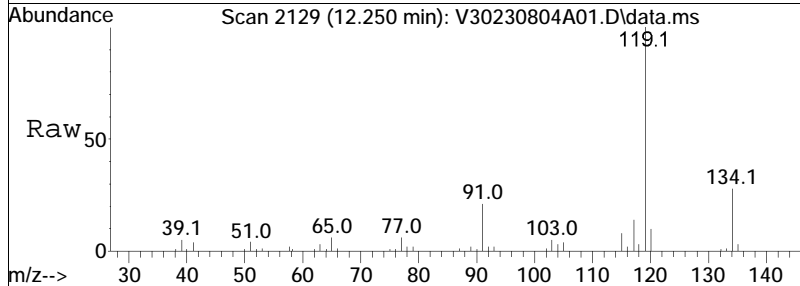
Tgt Ion	105	134	Resp	264612
Ion Ratio	100	22.7	Lower	Upper
			11.4	23.6

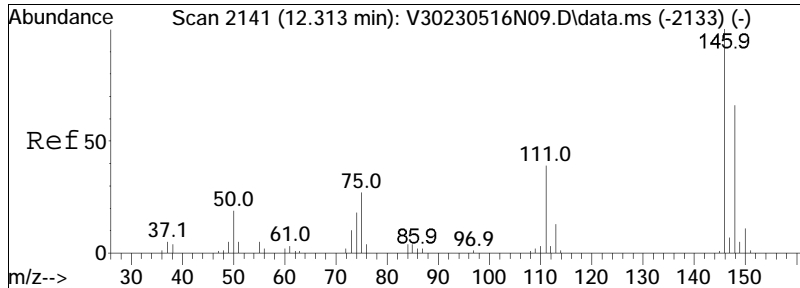




#104
 p-Isopropyltoluene
 Concen: 9.03 ug/L
 RT: 12.250 min Scan# 2129
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

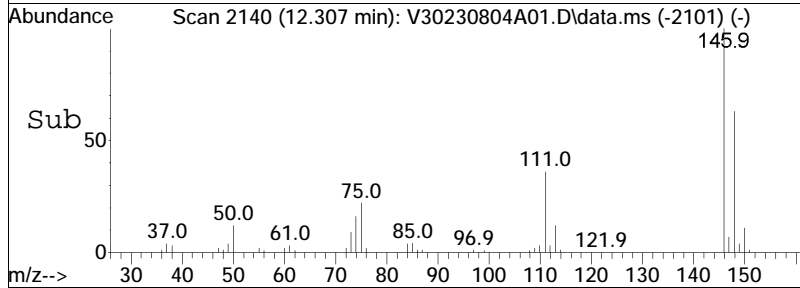
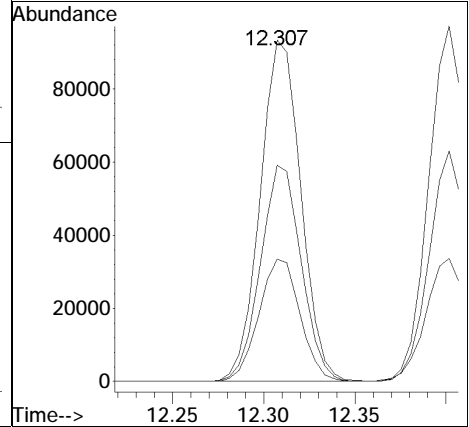
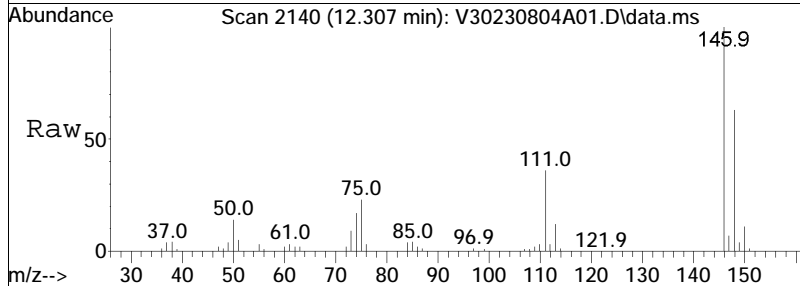
Tgt Ion	Resp	Lower	Upper
119	100		
134	28.2	15.9	33.1
91	21.8	16.6	34.4

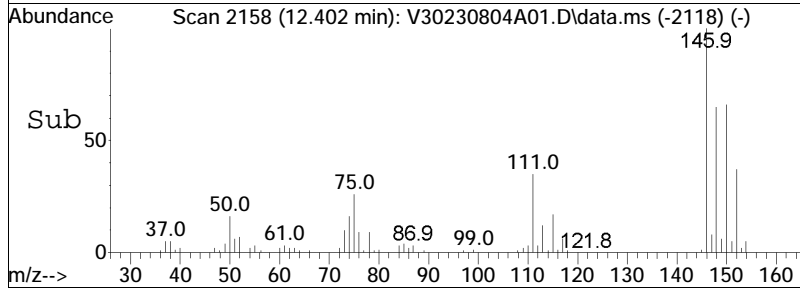
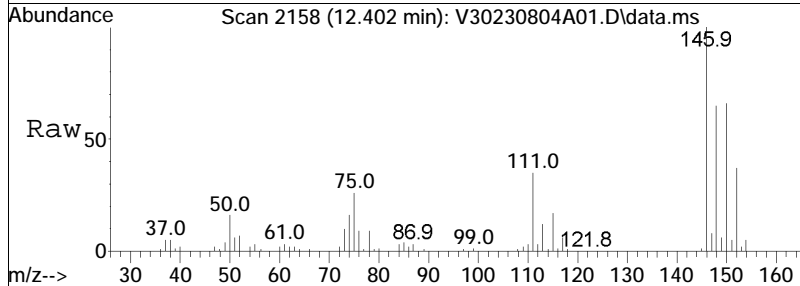
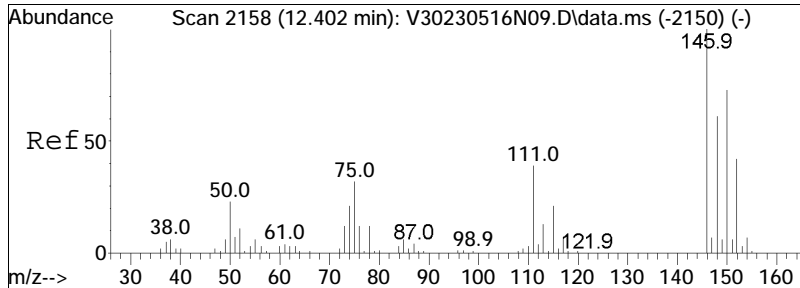




#105
 1,3-Dichlorobenzene
 Concen: 9.65 ug/L
 RT: 12.307 min Scan# 2140
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

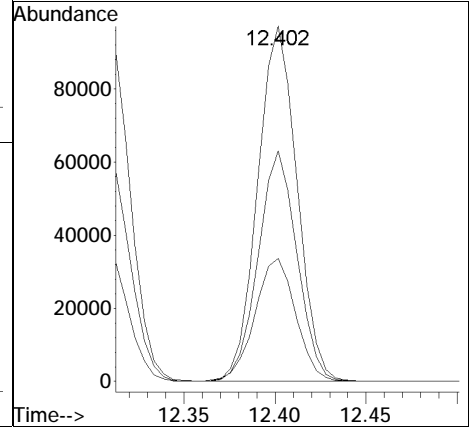
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.2	28.0	58.1
148	63.3	40.8	84.6

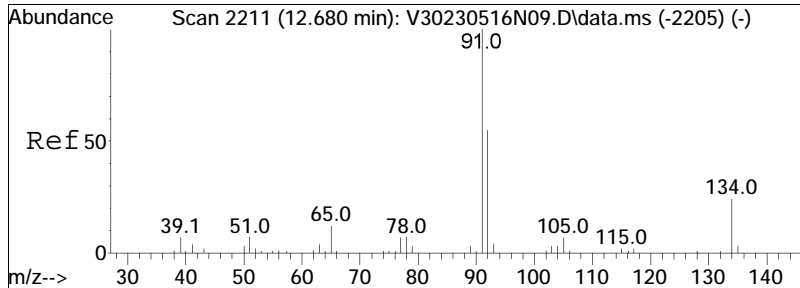




#106
 1,4-Dichlorobenzene
 Concen: 9.69 ug/L
 RT: 12.402 min Scan# 2158
 Delta R.T. 0.010 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

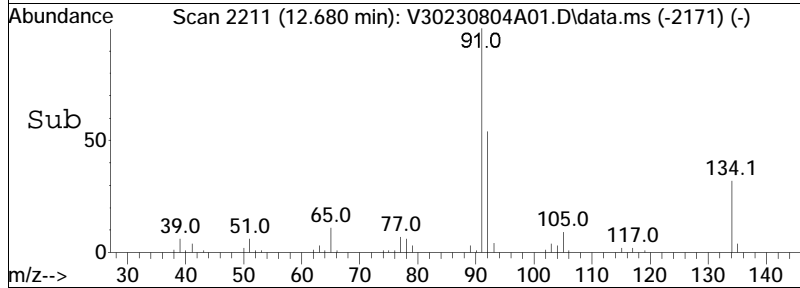
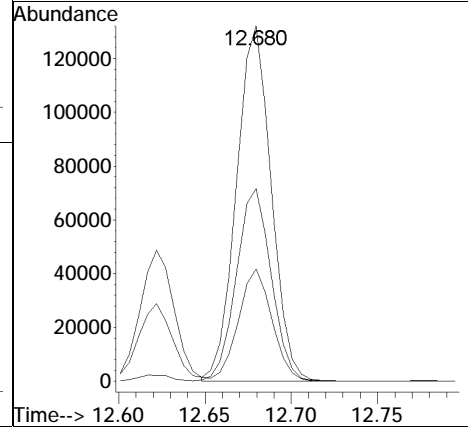
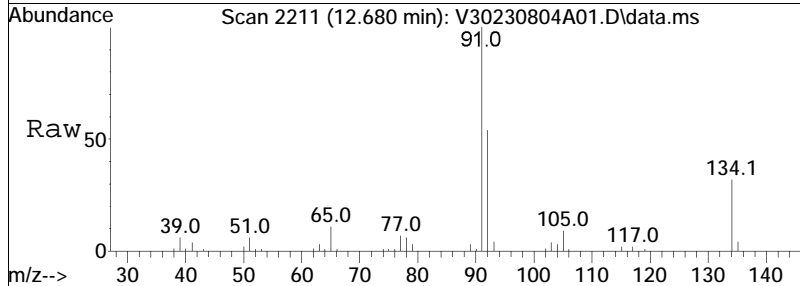
Tgt Ion	Resp	Lower	Upper
146	100		
111	36.0	33.7	50.5
148	64.0	50.8	76.2

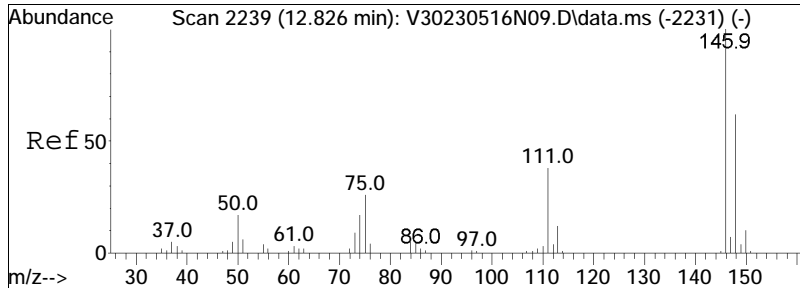




#108
 n-Butylbenzene
 Concen: 9.21 ug/L
 RT: 12.680 min Scan# 2211
 Delta R.T. 0.010 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

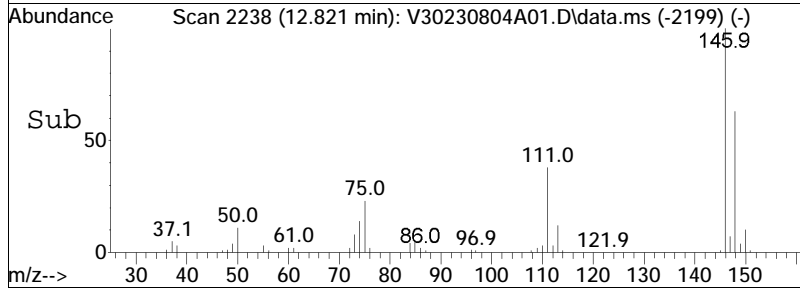
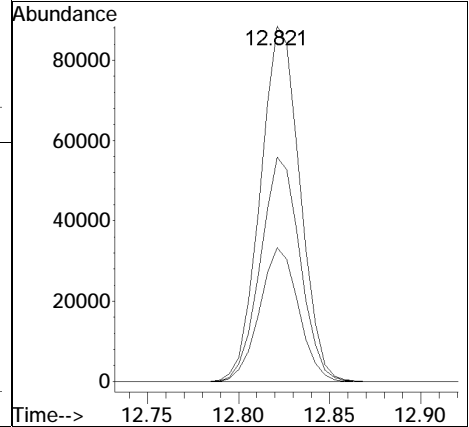
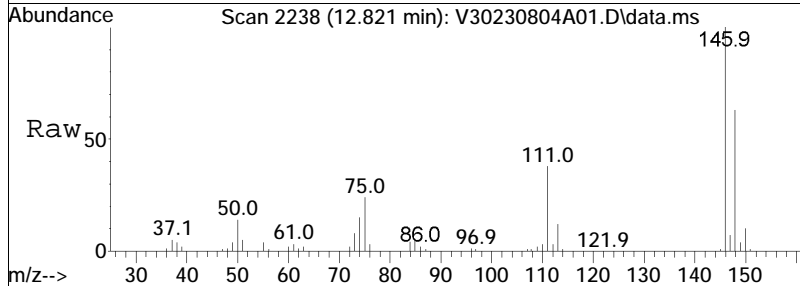
Tgt Ion	Resp	Lower	Upper
91	100		
92	54.3	44.2	66.4
134	30.5	17.8	26.6#

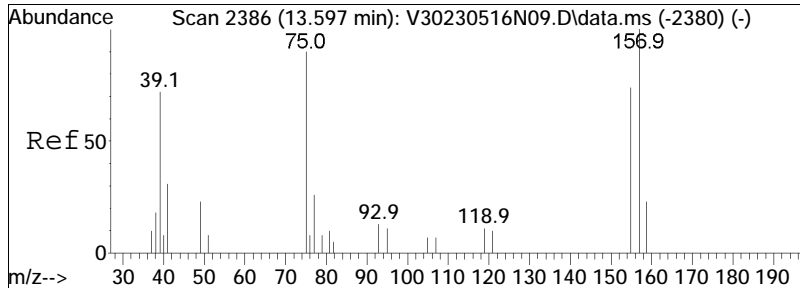




#109
 1,2-Dichlorobenzene
 Concen: 9.35 ug/L
 RT: 12.821 min Scan# 2238
 Delta R.T. 0.005 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

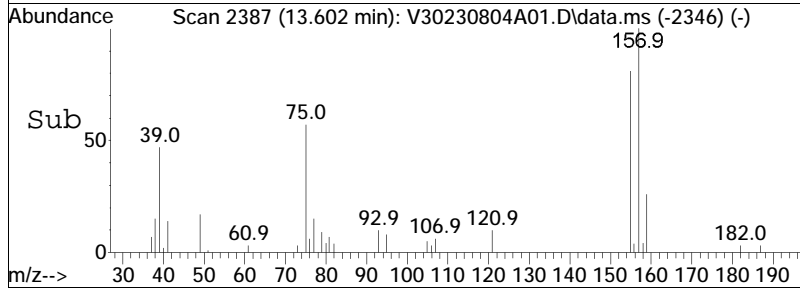
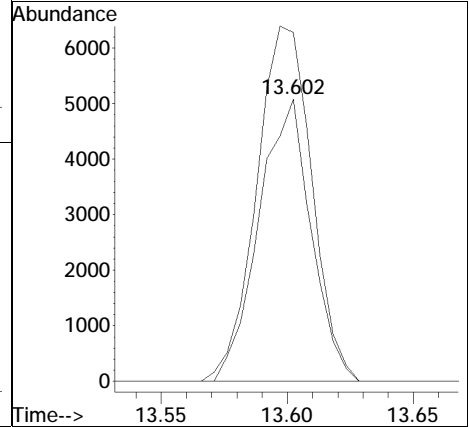
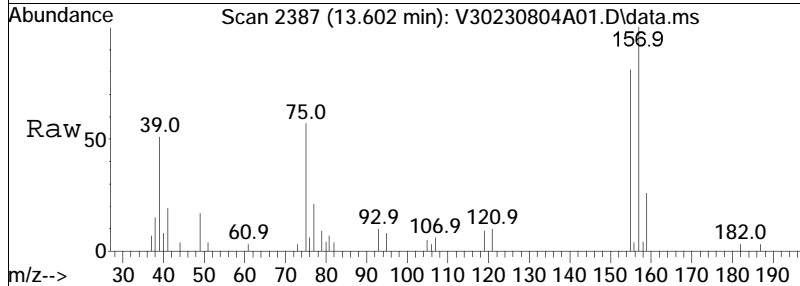
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.9	29.5	61.3
148	62.9	41.3	85.9

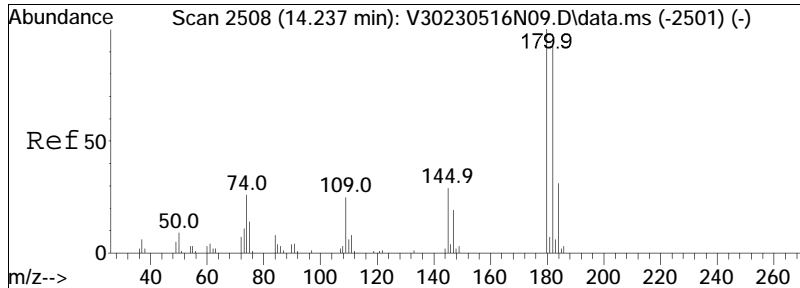




#111
 1,2-Dibromo-3-chloropropane
 Concen: 7.34 ug/L
 RT: 13.602 min Scan# 2387
 Delta R.T. 0.016 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

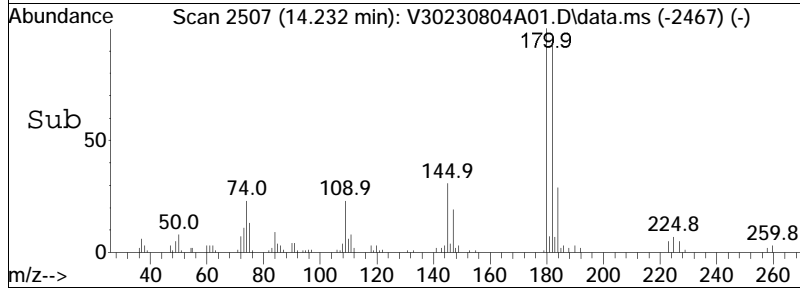
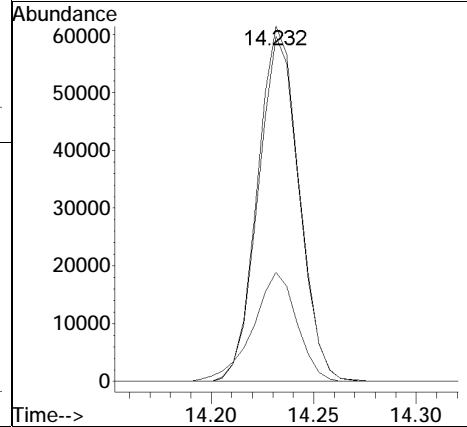
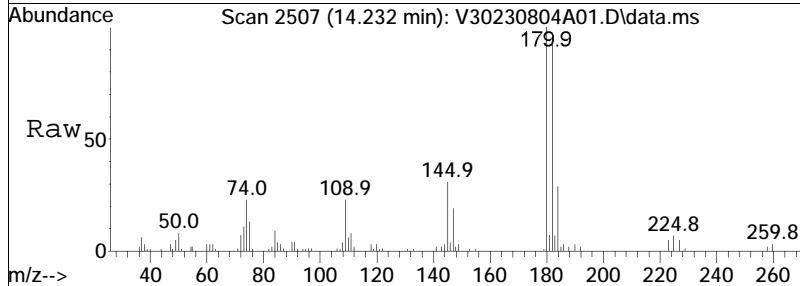
Tgt Ion: 155 Resp: 7326
 Ion Ratio Lower Upper
 155 100
 157 133.2 105.1 157.7

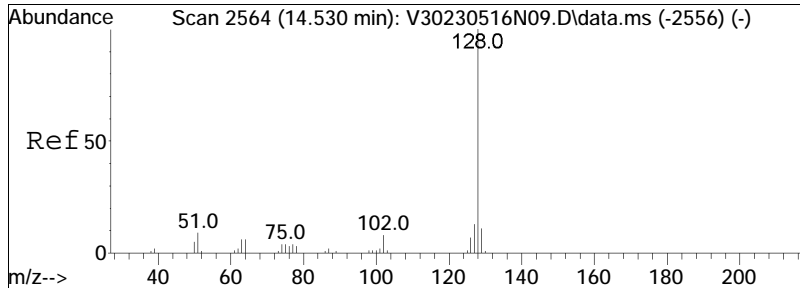




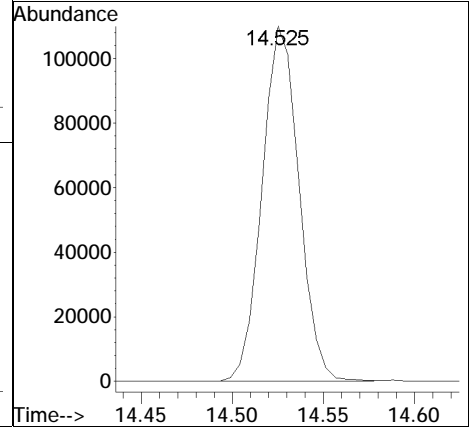
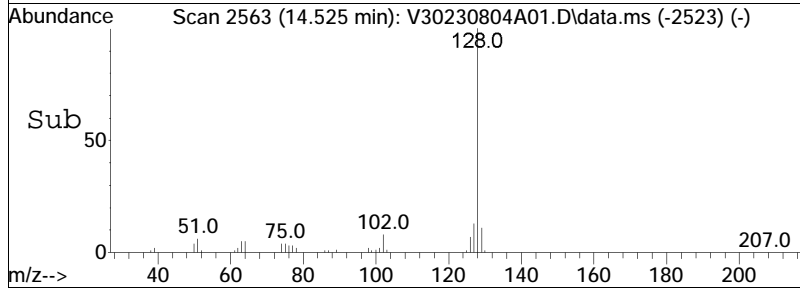
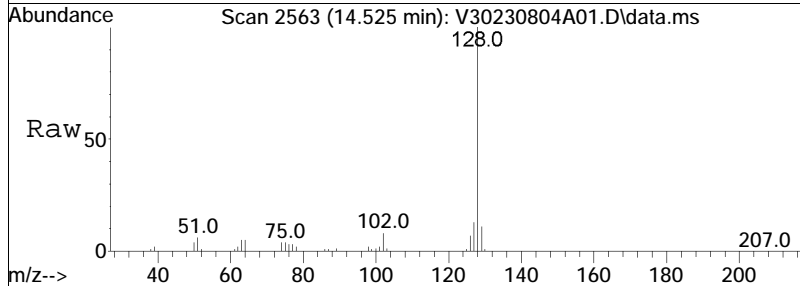
#114
 1,2,4-Trichlorobenzene
 Concen: 9.81 ug/L
 RT: 14.232 min Scan# 2507
 Delta R.T. 0.010 min
 Lab File: V30230804A01.D
 Acq: 04 Aug 2023 06:51 am

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.7	113.5
145	32.5	27.4	41.2





#115
Naphthalene
Concen: 7.73 ug/L
RT: 14.525 min Scan# 2563
Delta R.T. 0.010 min
Lab File: V30230804A01.D
Acq: 04 Aug 2023 06:51 am
Tgt Ion:128 Resp: 155093



Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A02.D
 Acq On : 04 Aug 2023 07:13 am
 Operator : VOA130:PID
 Sample : WG1811888-4,31,10,10
 Misc : WG1811888,ICAL20171
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 07:39:51 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.142	96	280092	10.000	ug/L	# 0.00
Standard Area 1 = 302647			Recovery =	92.55%		
63) Chlorobenzene-d5	9.702	117	281930	10.000	ug/L	# 0.00
Standard Area 1 = 290495			Recovery =	97.05%		
84) 1,4-Dichlorobenzene-d4	12.386	152	182469	10.000	ug/L	0.00
Standard Area 1 = 184997			Recovery =	98.63%		
System Monitoring Compounds						
39) Dibromofluoromethane	5.318	113	97605	11.416	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	114.16%		
47) 1,2-Dichloroethane-d4	5.853	65	91505	10.650	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.50%		
64) Toluene-d8	7.851	98	326040	9.689	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.89%		
88) 4-Bromofluorobenzene	11.180	95	128475	8.821	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	88.21%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.685	85	54295	9.396	ug/L	96
3) Chloromethane	1.879	50	58995	11.177	ug/L	99
4) Vinyl chloride	1.958	62	60802	10.410	ug/L	97
5) Bromomethane	2.277	94	39944	11.238	ug/L	97
6) Chloroethane	2.398	64	41105	11.149	ug/L	98
7) Trichlorofluoromethane	2.545	101	87412	10.546	ug/L	97
10) 1,1-Dichloroethene	3.043	96	46530	11.128	ug/L #	71
11) Carbon disulfide	3.069	76	123606	10.995	ug/L	99
12) Freon-113	3.085	101	51340	11.516	ug/L #	70
15) Methylene chloride	3.604	84	52285	10.933	ug/L	87
17) Acetone	3.641	43	10638	9.808	ug/L	93
18) trans-1,2-Dichloroethene	3.761	96	51895	11.094	ug/L	77
19) Methyl acetate	3.766	43	27686	10.606	ug/L #	93
21) Methyl tert-butyl ether	3.866	73	104690	9.636	ug/L	97
25) 1,1-Dichloroethane	4.348	63	93133	11.045	ug/L #	98
30) cis-1,2-Dichloroethene	4.873	96	59898	11.169	ug/L #	77
34) Cyclohexane	5.088	56	81934	10.925	ug/L	86
35) Chloroform	5.140	83	95059	11.176	ug/L	96
37) Carbon tetrachloride	5.287	117	78012	11.402	ug/L	96
40) 1,1,1-Trichloroethane	5.350	97	82894	10.975	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A02.D
 Acq On : 04 Aug 2023 07:13 am
 Operator : VOA130:PID
 Sample : WG1811888-4,31,10,10
 Misc : WG1811888,ICAL20171
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 07:39:51 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
 Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone	5.434	43	13827	9.347	ug/L	99
45) Benzene	5.717	78	181000	10.847	ug/L	98
48) 1,2-Dichloroethane	5.921	62	63822	10.205	ug/L #	96
51) Methyl cyclohexane	6.320	83	74406	10.612	ug/L	85
52) Trichloroethene	6.320	95	51937	10.105	ug/L #	82
55) 1,2-Dichloropropane	6.865	63	48648	11.108	ug/L	96
58) Bromodichloromethane	6.938	83	67875	10.802	ug/L #	96
62) cis-1,3-Dichloropropene	7.636	75	68600	10.377	ug/L	89
65) Toluene	7.908	92	124937	9.574	ug/L	96
66) 4-Methyl-2-pentanone	8.344	58	10078	7.743	ug/L #	89
67) Tetrachloroethene	8.359	166	62963	10.533	ug/L #	88
69) trans-1,3-Dichloropropene	8.386	75	58535	8.664	ug/L #	87
72) 1,1,2-Trichloroethane	8.574	83	31643	9.020	ug/L	92
73) Chlorodibromomethane	8.784	129	51469	9.193	ug/L	98
75) 1,2-Dibromoethane	9.062	107	39149	9.062	ug/L	99
77) 2-Hexanone	9.356	43	18437	7.197	ug/L	97
78) Chlorobenzene	9.723	112	147852	9.684	ug/L #	88
79) Ethylbenzene	9.770	91	236612	9.385	ug/L	93
81) p/m Xylene	9.959	106	200268	19.231	ug/L	84
82) o Xylene	10.488	106	194286	18.898	ug/L	86
83) Styrene	10.551	104	318499	19.091	ug/L	87
85) Bromoform	10.572	173	32294	8.775	ug/L	97
87) Isopropylbenzene	10.871	105	241705	8.746	ug/L	93
90) n-Propylbenzene	11.343	91	277321	8.741	ug/L #	89
92) 1,1,2,2-Tetrachloroethane	11.416	83	44842	9.375	ug/L #	97
95) 1,3,5-Trimethylbenzene	11.568	105	203443	8.902	ug/L	92
99) tert-Butylbenzene	11.904	119	182360	8.821	ug/L	87
102) 1,2,4-Trimethylbenzene	11.982	105	198351	8.844	ug/L	92
103) sec-Butylbenzene	12.092	105	253941	8.805	ug/L	88
104) p-Isopropyltoluene	12.250	119	222431	8.772	ug/L	93
105) 1,3-Dichlorobenzene	12.307	146	139145	9.385	ug/L	94
106) 1,4-Dichlorobenzene	12.402	146	140193	9.437	ug/L	95
108) n-Butylbenzene	12.674	91	174842	8.795	ug/L #	94
109) 1,2-Dichlorobenzene	12.821	146	130324	9.237	ug/L	95
111) 1,2-Dibromo-3-chloropr...	13.597	155	8427	8.566	ug/L	96
114) 1,2,4-Trichlorobenzene	14.232	180	85670	9.846	ug/L	99
115) Naphthalene	14.525	128	161917	8.178	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
Data File : V30230804A02.D
Acq On : 04 Aug 2023 07:13 am
Operator : VOA130:PID
Sample : WG1811888-4,31,10,10
Misc : WG1811888,ICAL20171
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 07:39:51 2023
Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 14 09:22:26 2023
Response via : Initial Calibration

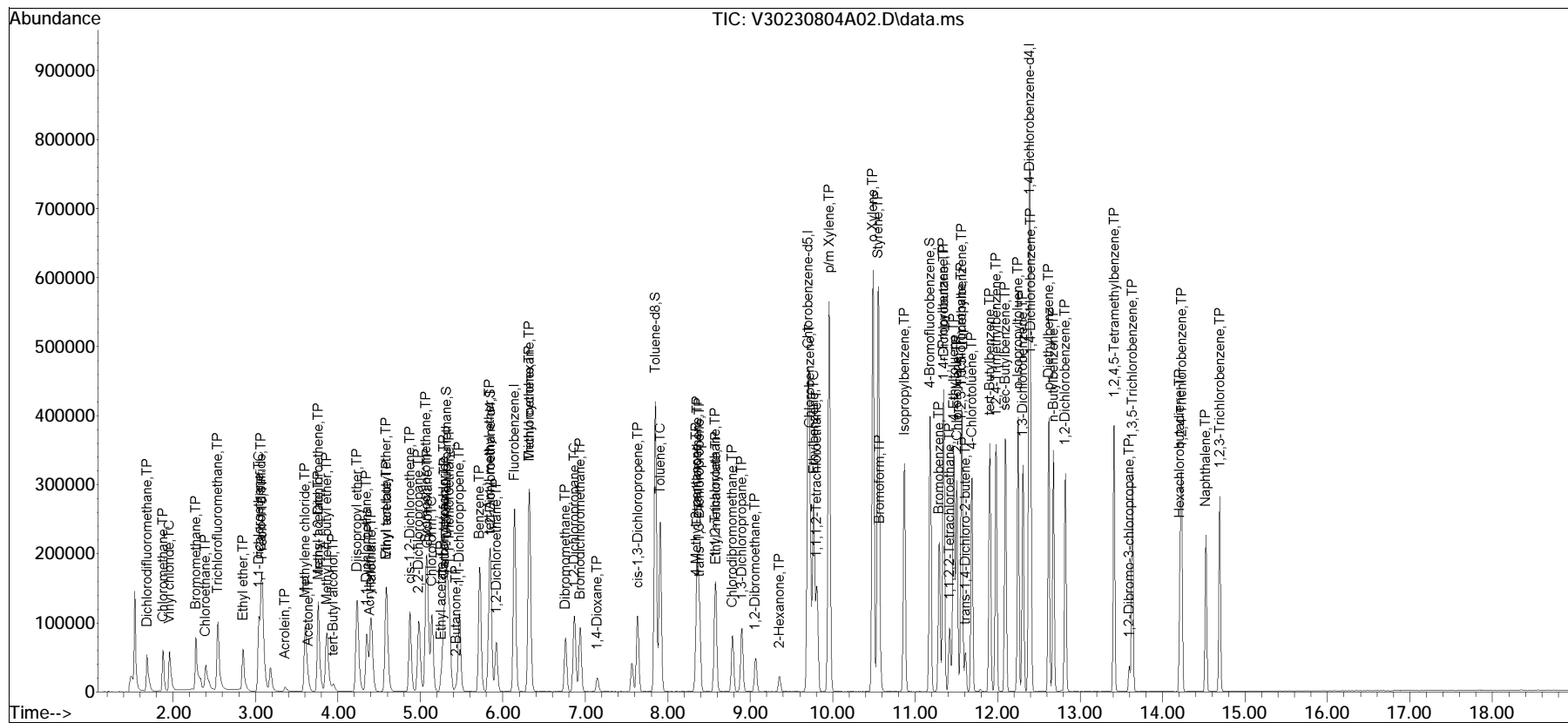
CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

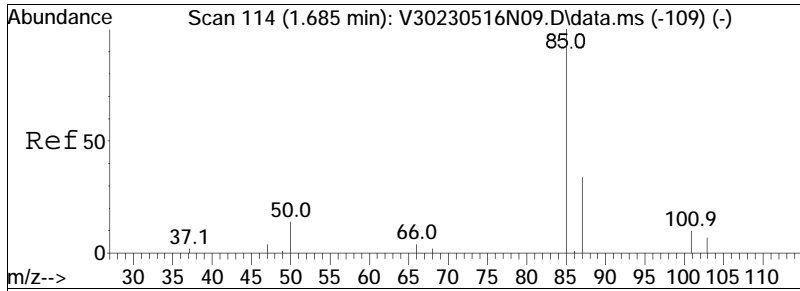
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Data Path : K:\VOA130\2023\230804\
 Data File : V30230804A02.D
 Acq On : 04 Aug 2023 07:13 am
 Operator : VOA130:PID
 Sample : WG1811888-4,31,10,10
 Misc : WG1811888,ICAL20171
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 07:39:51 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

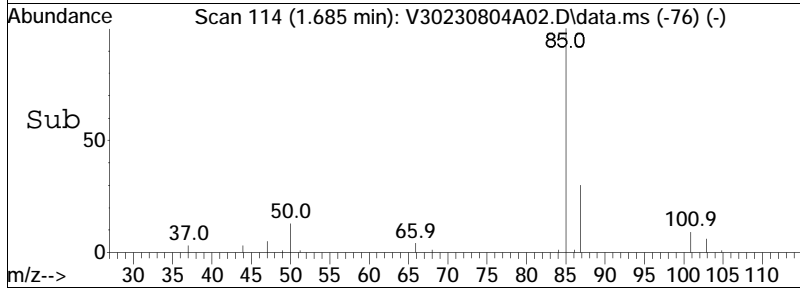
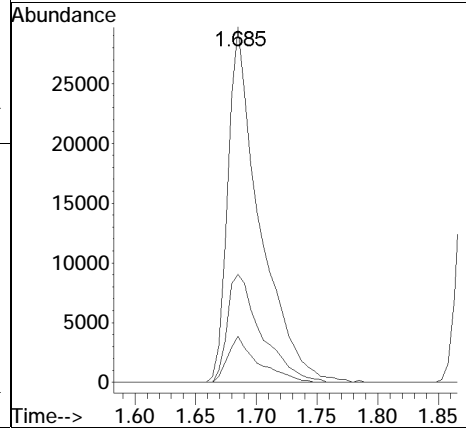
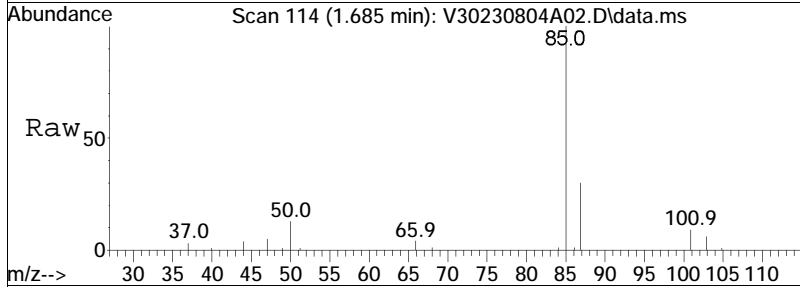
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

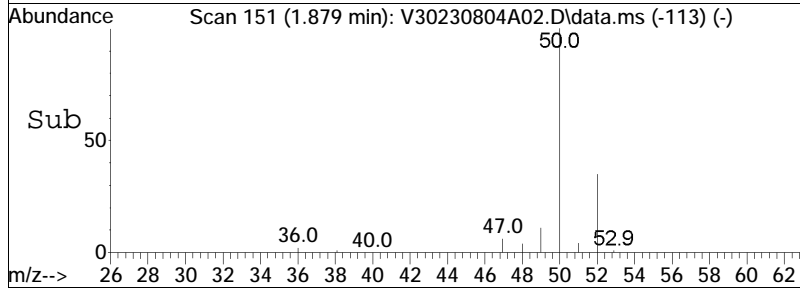
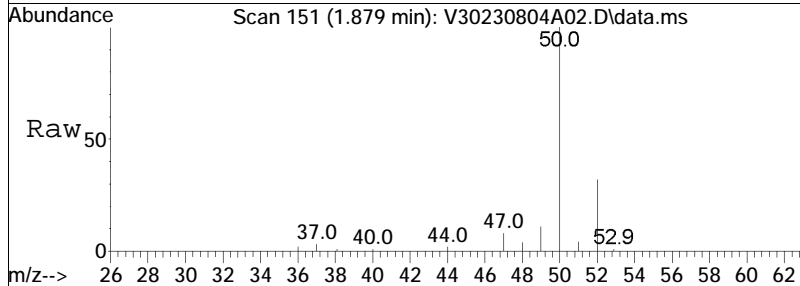
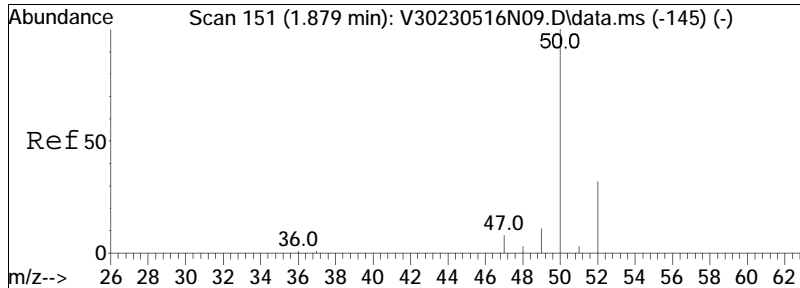




#2
 Dichlorodifluoromethane
 Concen: 9.40 ug/L
 RT: 1.685 min Scan# 114
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

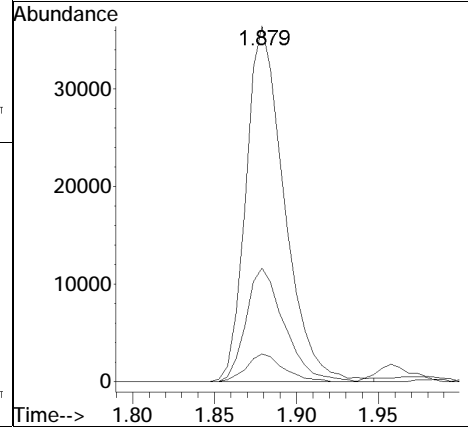
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.5	20.2	42.0
50	12.4	10.1	20.9

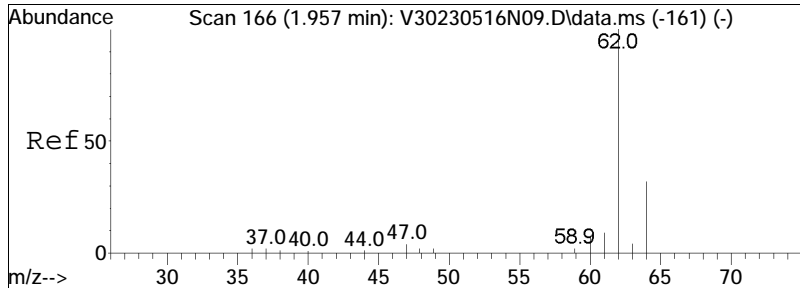




#3
 Chloromethane
 Concen: 11.18 ug/L
 RT: 1.879 min Scan# 151
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

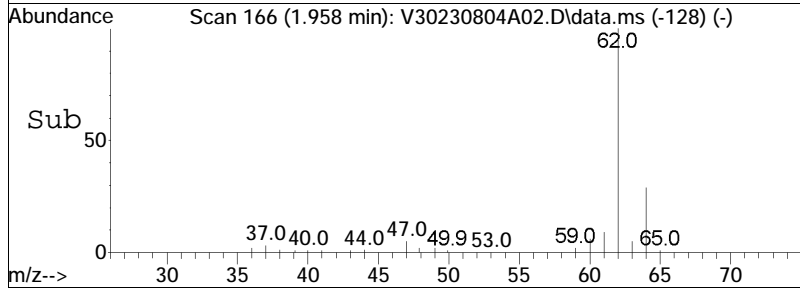
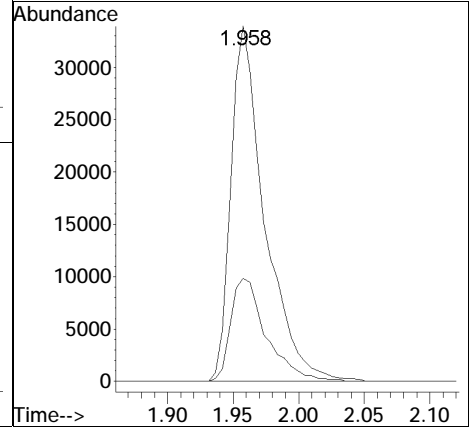
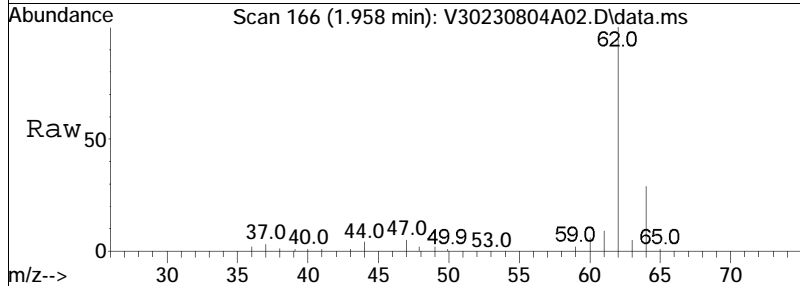
Tgt Ion	Resp	Lower	Upper
50	58995		
50	100		
52	31.8	25.1	37.7
47	7.4	6.5	9.7

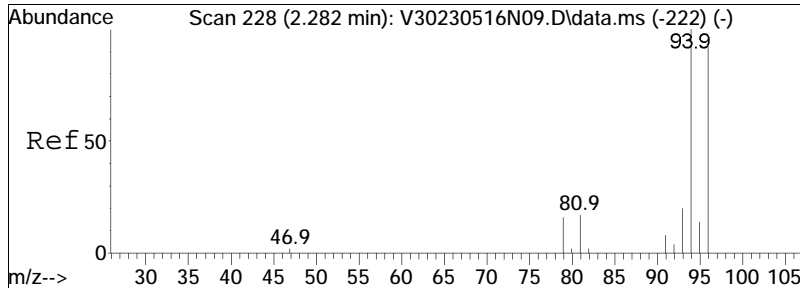




#4
 Vinyl chloride
 Concen: 10.41 ug/L
 RT: 1.958 min Scan# 166
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

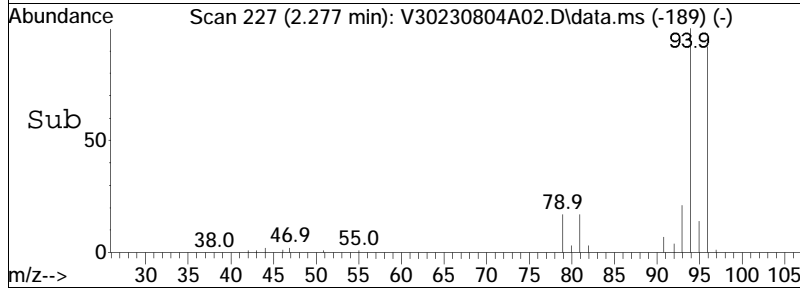
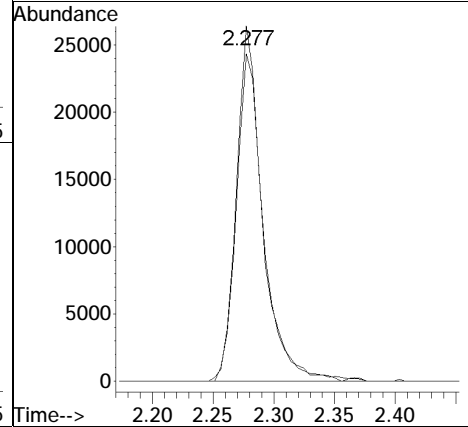
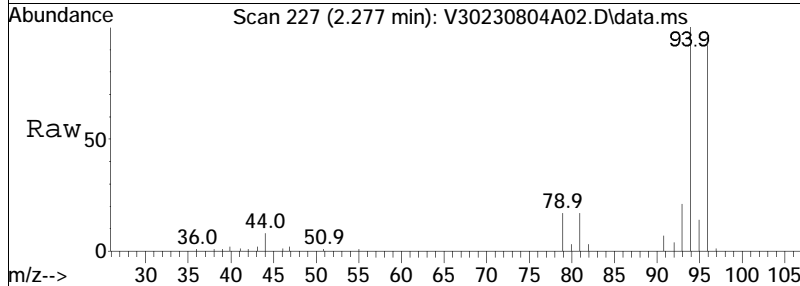
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
62	100		
64	30.6	25.7	38.5

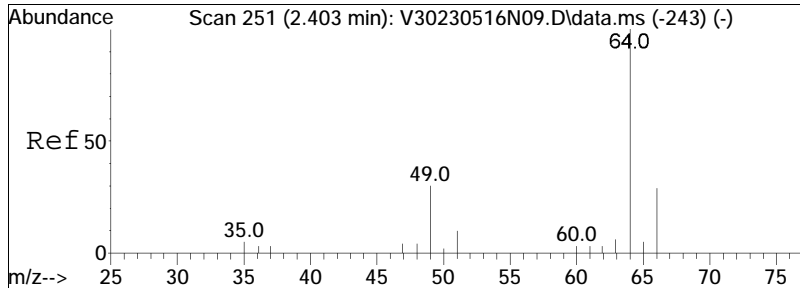




#5
 Bromomethane
 Concen: 11.24 ug/L
 RT: 2.277 min Scan# 227
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

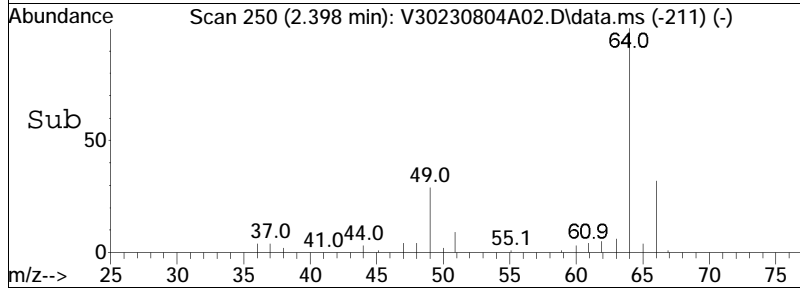
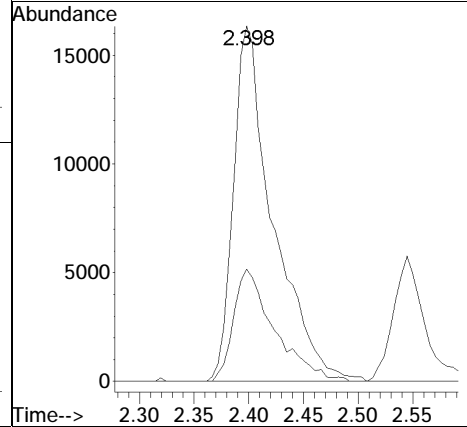
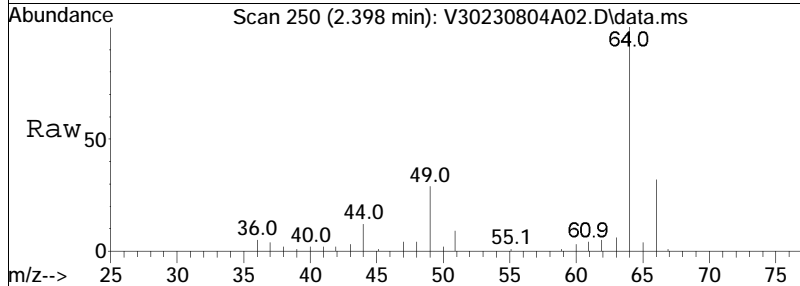
Tgt Ion	Resp	Lower	Upper
94	39944		
94	100		
96	94.9	73.7	110.5

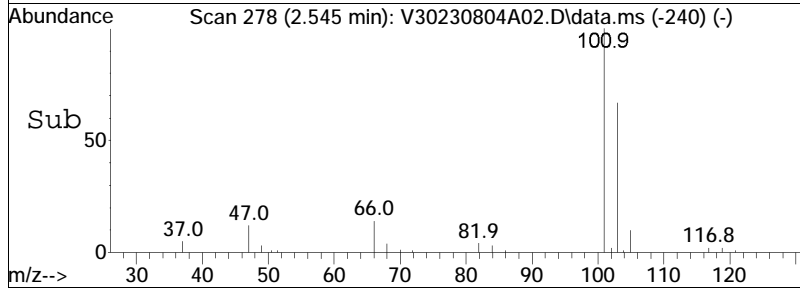
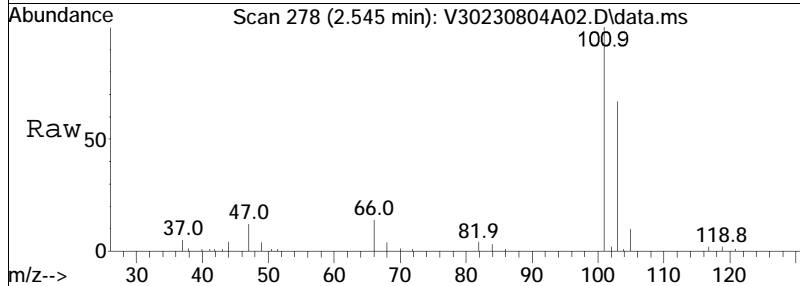
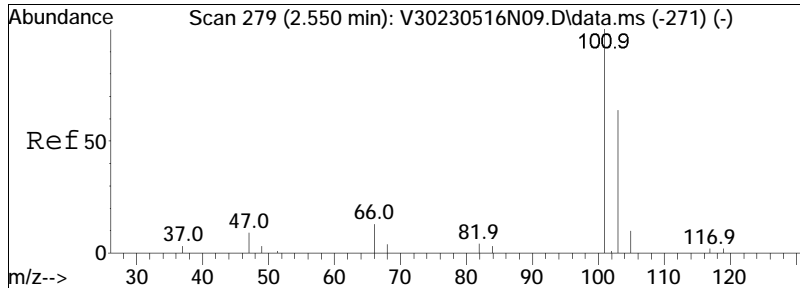




#6
 Chloroethane
 Concen: 11.15 ug/L
 RT: 2.398 min Scan# 250
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

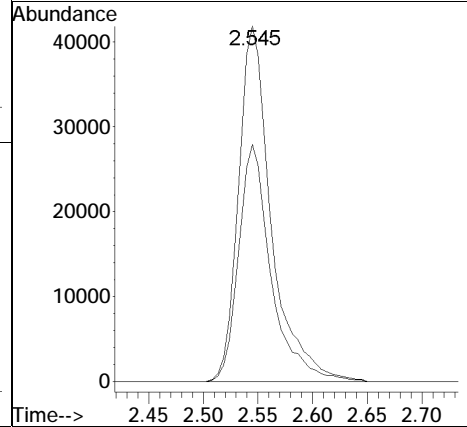
Tgt Ion: 64 Resp: 41105
 Ion Ratio Lower Upper
 64 100
 66 32.7 25.3 37.9

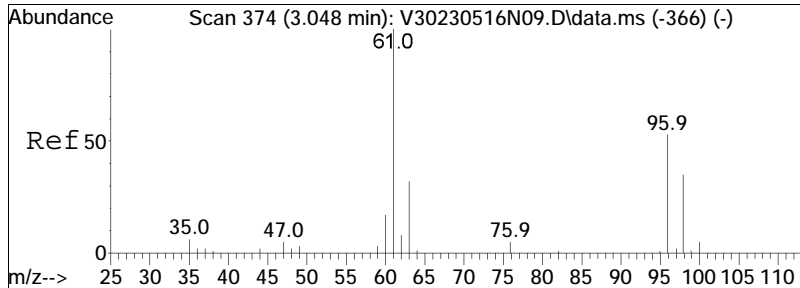




#7
 Trichlorofluoromethane
 Concen: 10.55 ug/L
 RT: 2.545 min Scan# 278
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

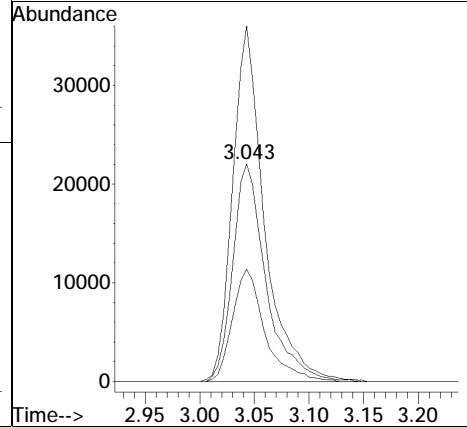
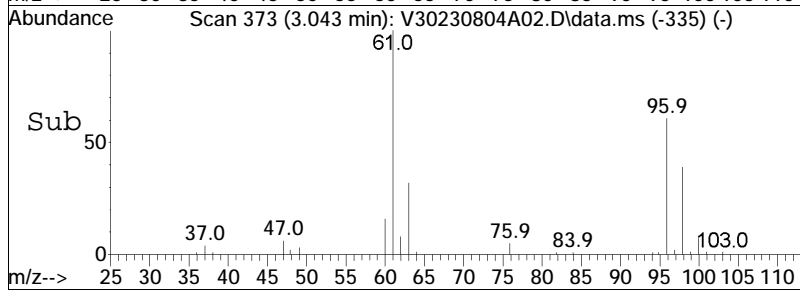
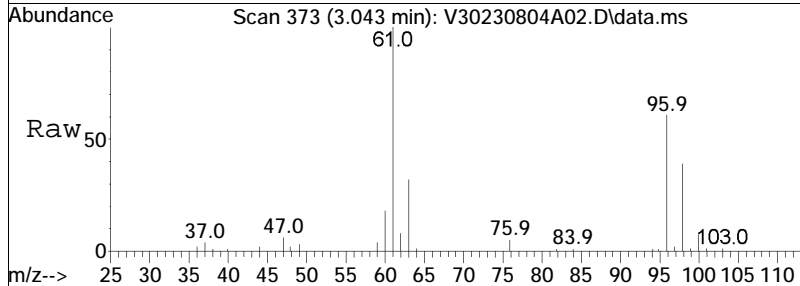
Tgt Ion	Resp	Lower	Upper
101	87412		
101	100		
103	66.2	51.0	76.4

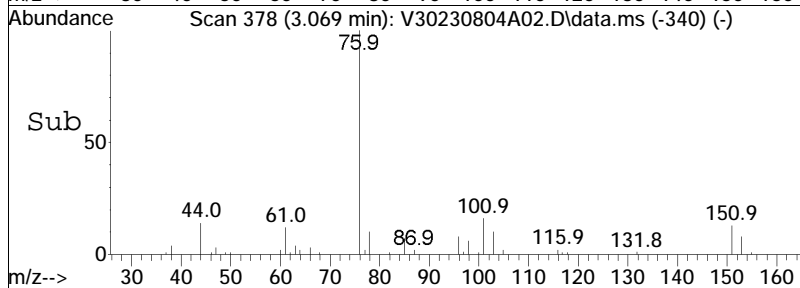
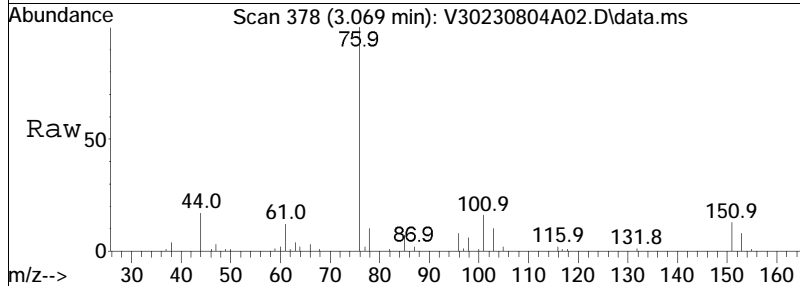
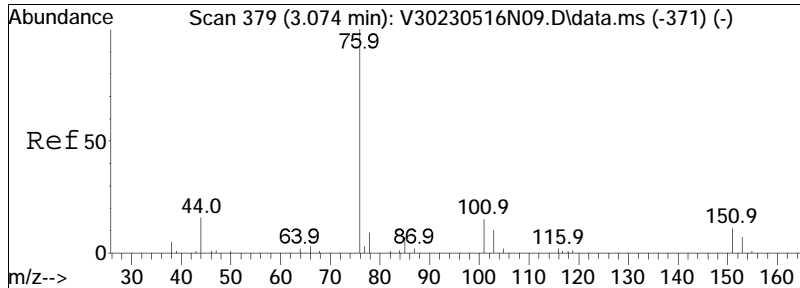




#10
 1,1-Dichloroethene
 Concen: 11.13 ug/L
 RT: 3.043 min Scan# 373
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

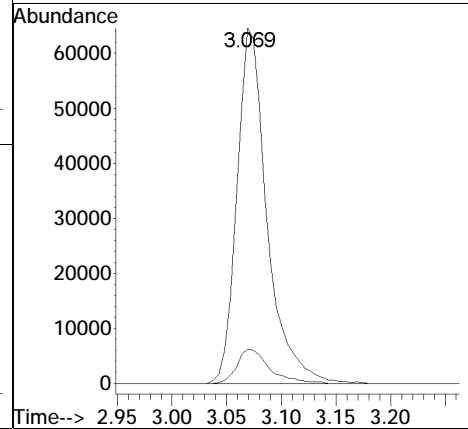
Tgt Ion	Resp	Lower	Upper
96	46530		
96	100		
61	156.1	165.5	248.3#
63	50.4	51.9	77.9#

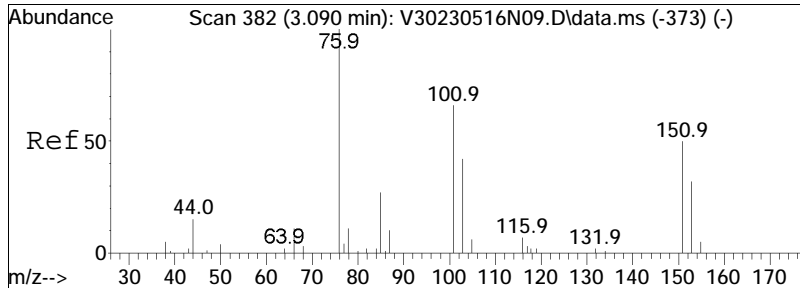




#11
 Carbon disulfide
 Concen: 10.99 ug/L
 RT: 3.069 min Scan# 378
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

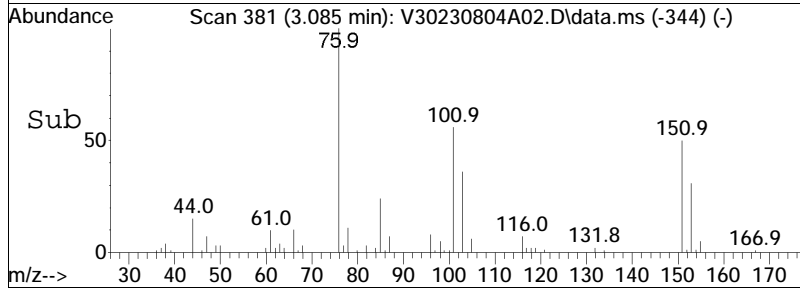
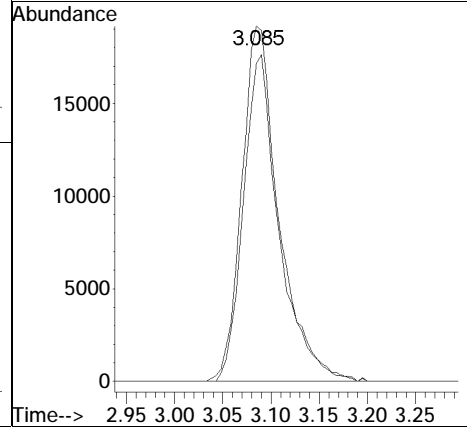
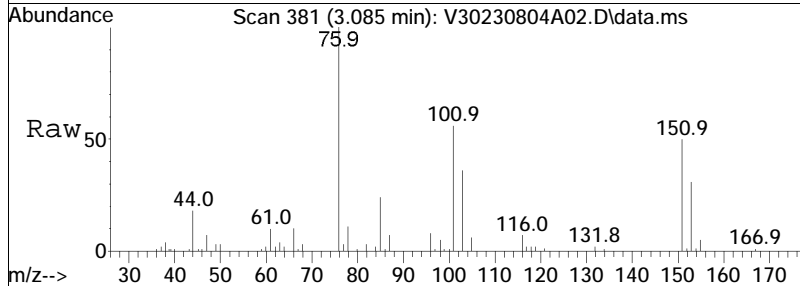
Tgt Ion:	Resp:	Lower	Upper
76	123606		
76	100		
78	10.4	6.4	13.4

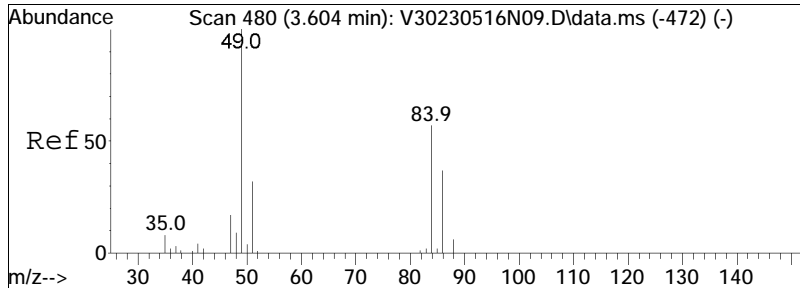




#12
 Freon-113
 Concen: 11.52 ug/L
 RT: 3.085 min Scan# 381
 Delta R.T. -0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

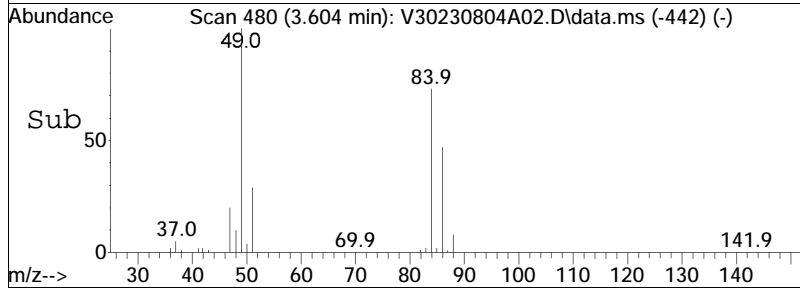
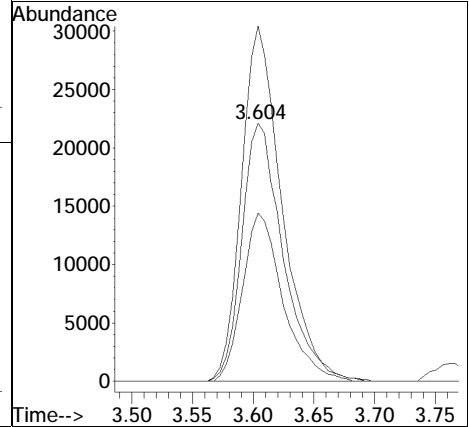
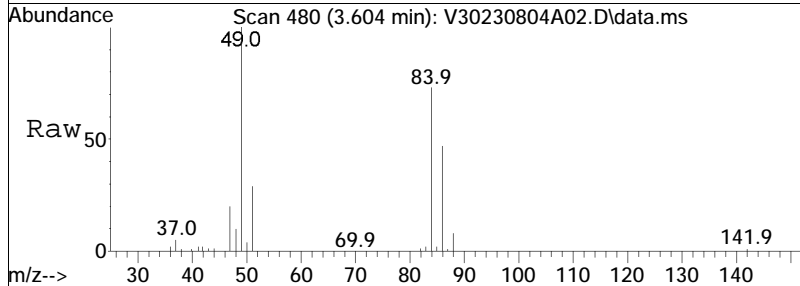
Tgt Ion	101	Resp:	51340
Ion Ratio	Lower	Upper	
101	100		
151	88.3	51.9	77.9#

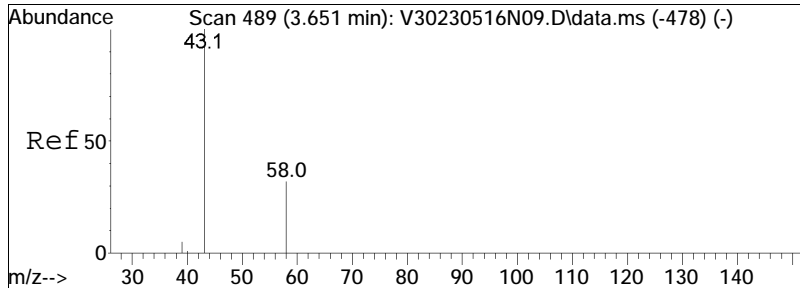




#15
 Methylene chloride
 Concen: 10.93 ug/L
 RT: 3.604 min Scan# 480
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

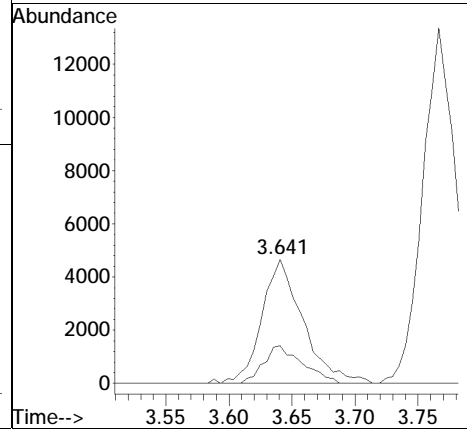
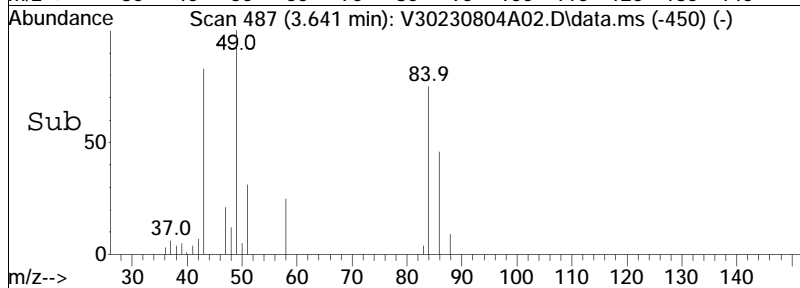
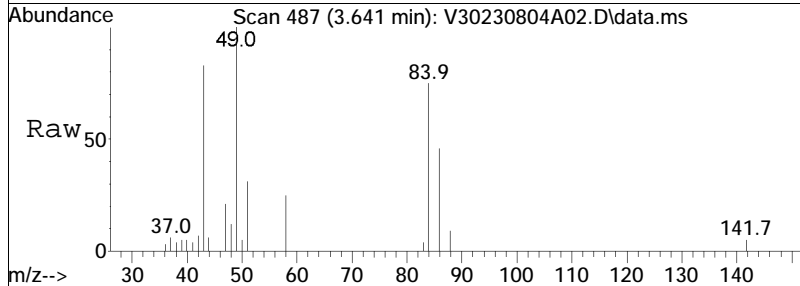
Tgt Ion:	84	Resp:	52285
Ion Ratio	Lower	Upper	
84	100		
86	64.0	41.7	86.5
49	135.3	103.9	215.9

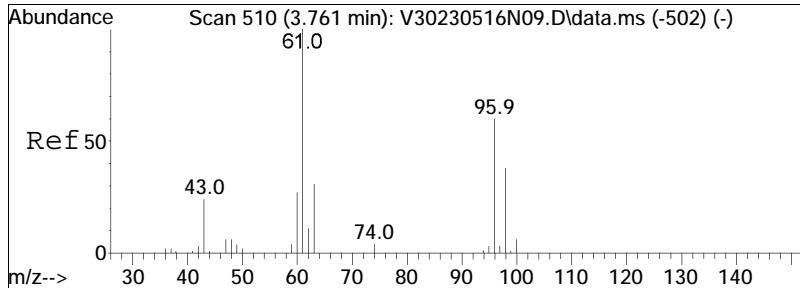




#17
 Acetone
 Concen: 9.81 ug/L
 RT: 3.641 min Scan# 487
 Delta R.T. -0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

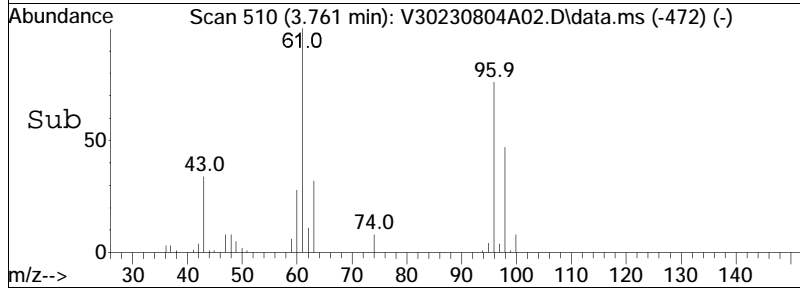
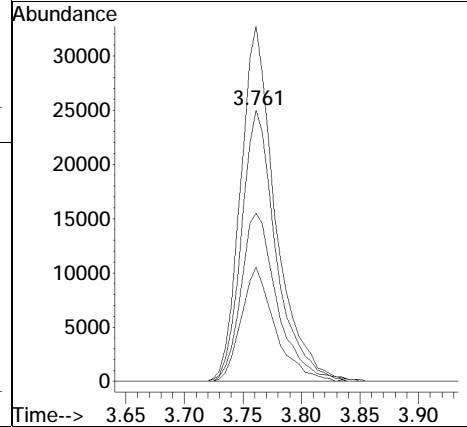
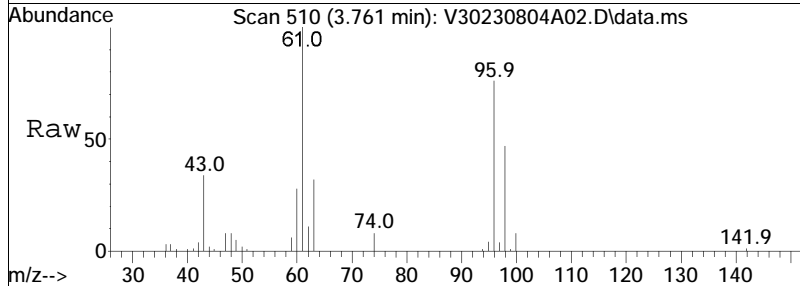
Tgt Ion	Resp	Lower	Upper
43	10638		
58	28.6	20.1	30.1

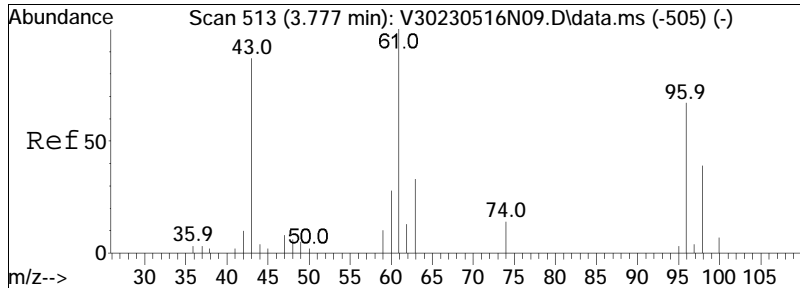




#18
 trans-1,2-Dichloroethene
 Concen: 11.09 ug/L
 RT: 3.761 min Scan# 510
 Delta R.T. 0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

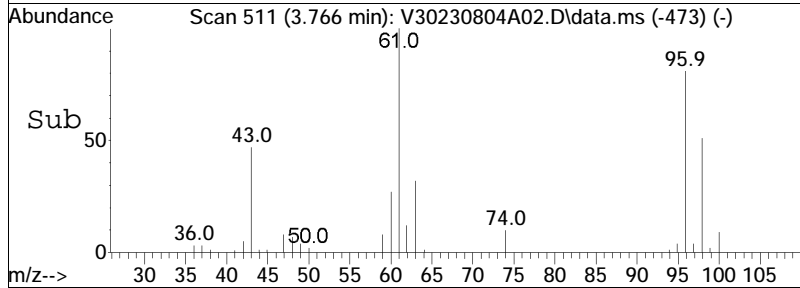
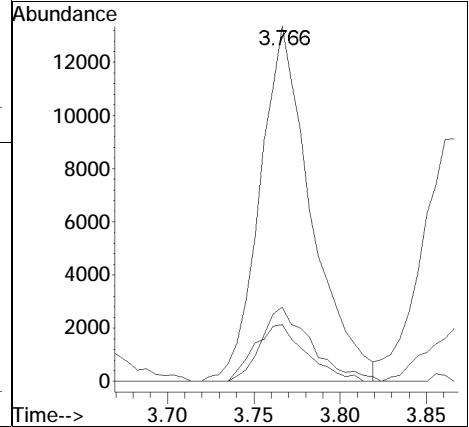
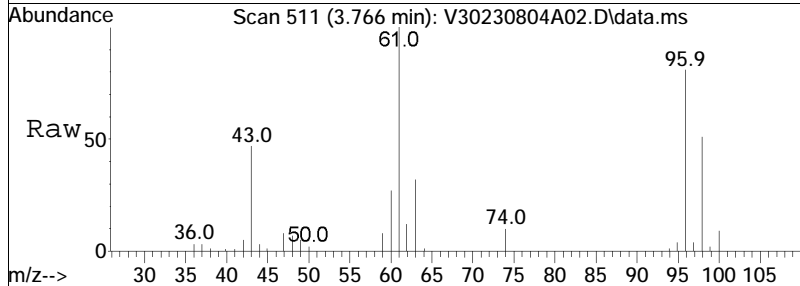
Tgt Ion	Resp	Lower	Upper
96	51895		
Ion Ratio			
96	100		
61	130.9	113.6	236.0
98	64.3	40.8	84.8
63	41.0	36.5	75.7

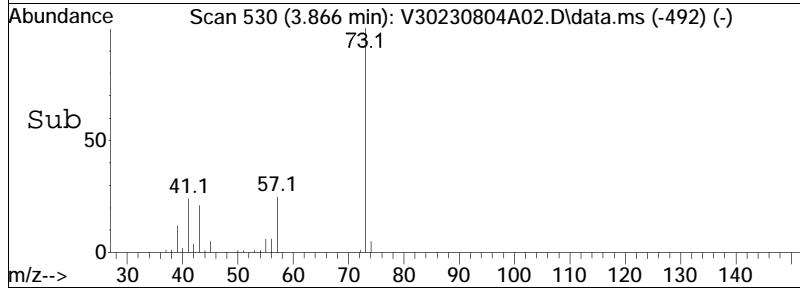
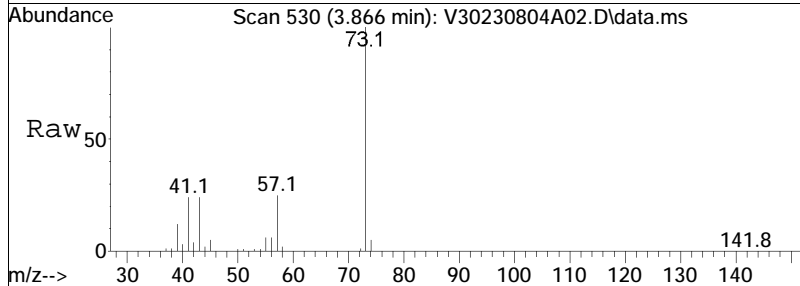
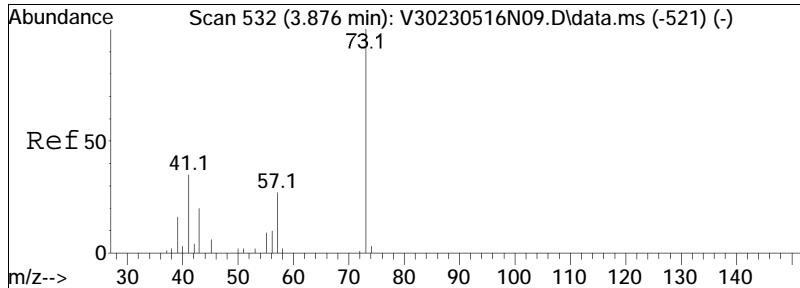




#19
 Methyl acetate
 Concen: 10.61 ug/L
 RT: 3.766 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

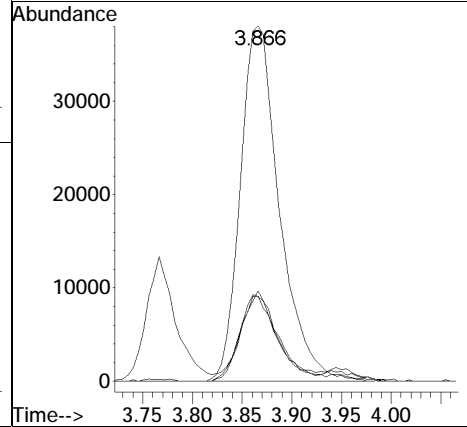
Tgt Ion:	43	74	59	Resp:	27686	Lower	Upper
Ion Ratio	100	20.3	16.3			14.6	22.0
						9.3	13.9#

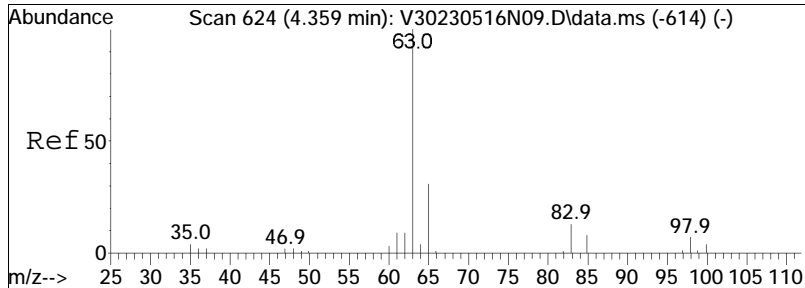




#21
 Methyl tert-butyl ether
 Concen: 9.64 ug/L
 RT: 3.866 min Scan# 530
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

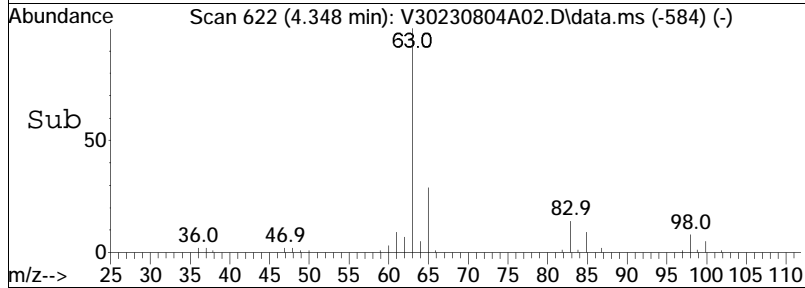
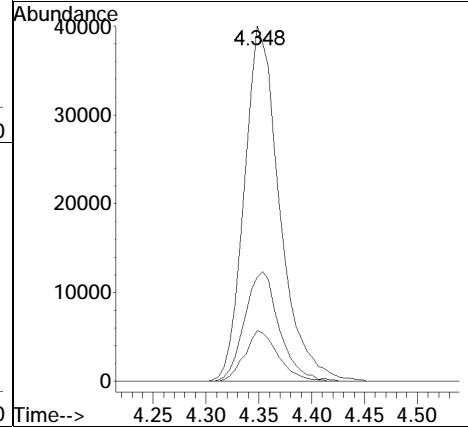
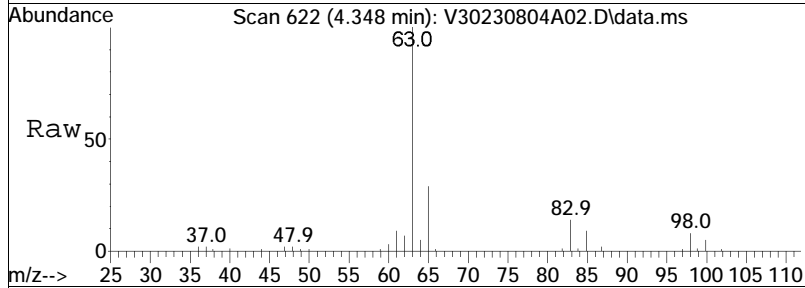
Tgt Ion	Resp	Lower	Upper
73	104690		
57	23.6	15.5	32.1
43	23.3	16.6	34.6
41	24.7	17.2	35.6

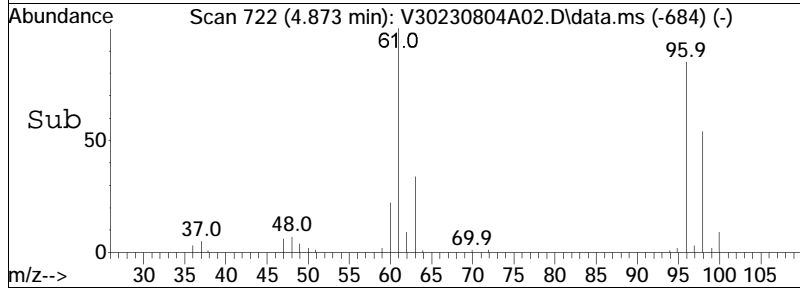
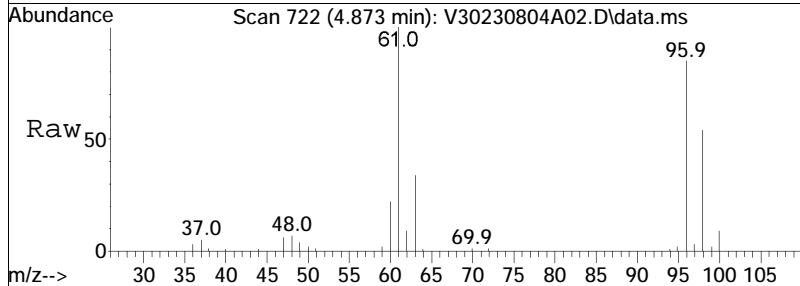
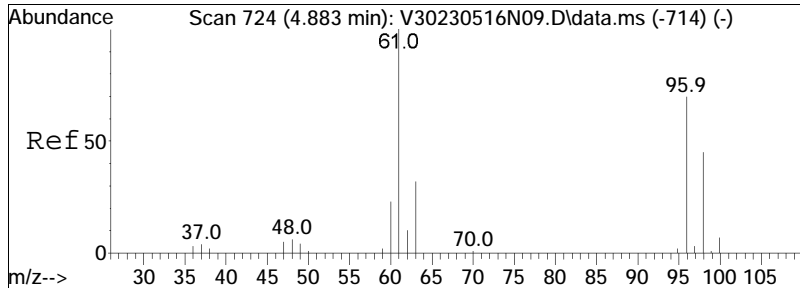




#25
 1,1-Dichloroethane
 Concen: 11.05 ug/L
 RT: 4.348 min Scan# 622
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

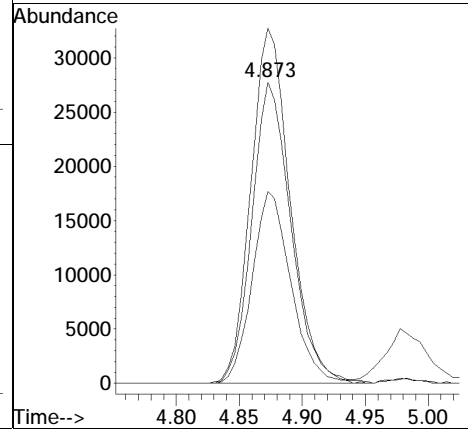
Tgt Ion	Resp	Lower	Upper
63	93133		
65	30.4	24.5	36.7
83	13.6	8.9	13.3#

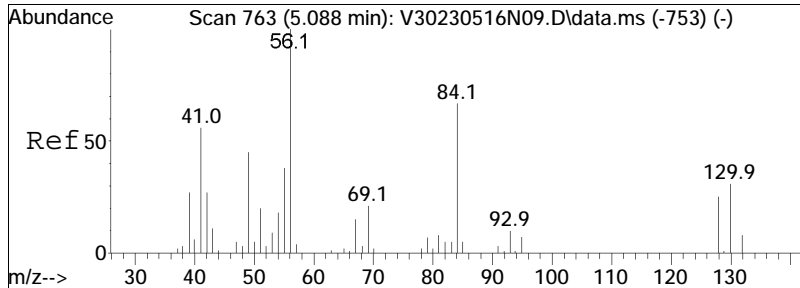




#30
 cis-1,2-Dichloroethene
 Concen: 11.17 ug/L
 RT: 4.873 min Scan# 722
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

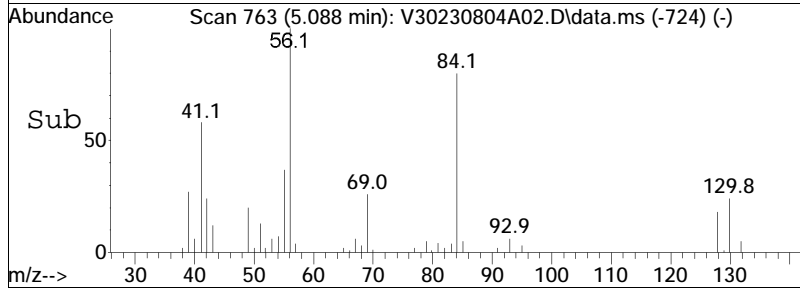
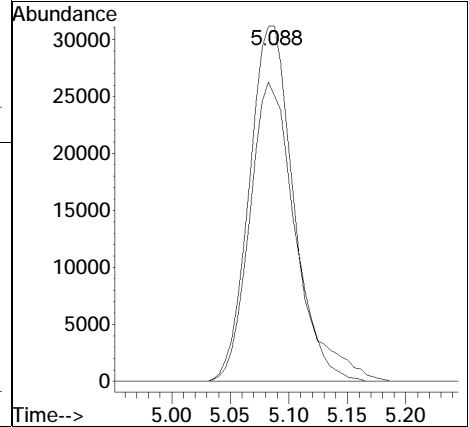
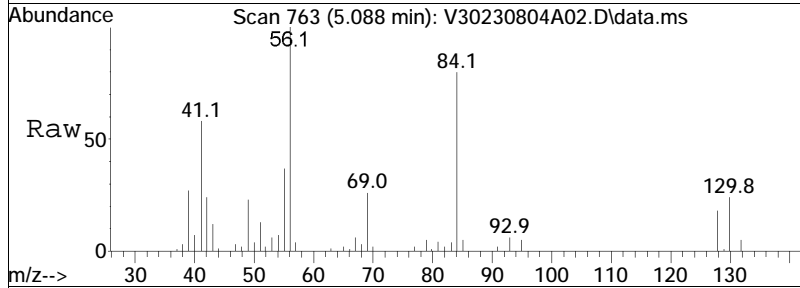
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
96	100		
61	118.8	129.3	193.9#
98	63.1	51.4	77.2

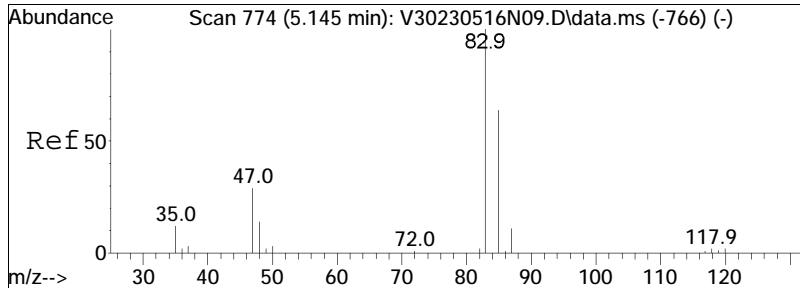




#34
 Cyclohexane
 Concen: 10.92 ug/L
 RT: 5.088 min Scan# 763
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

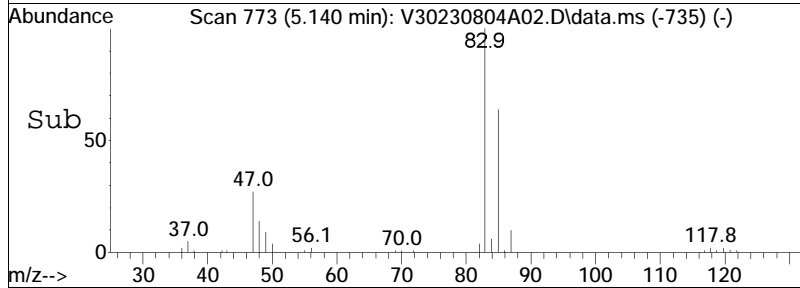
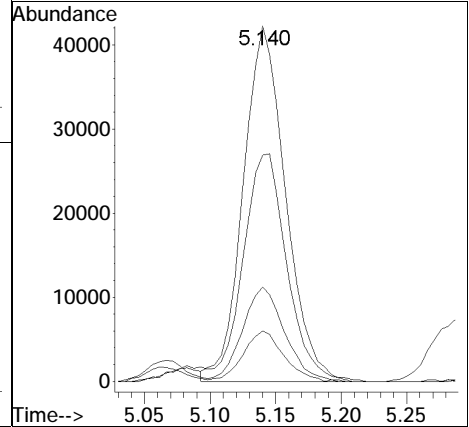
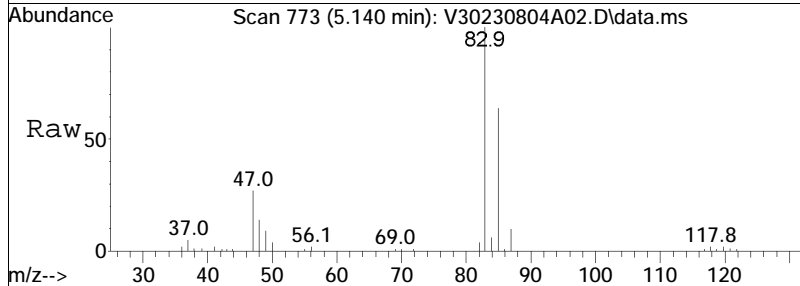
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
56	100		
84	88.7	49.9	103.5

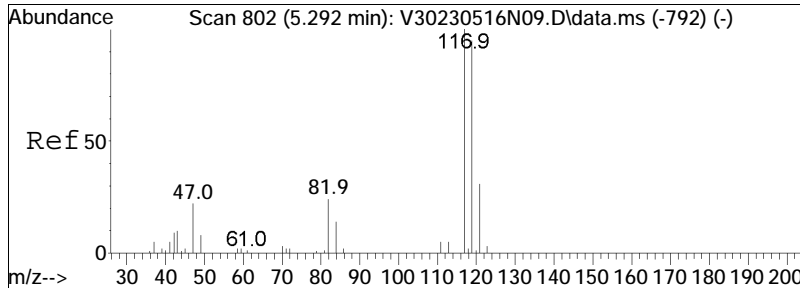




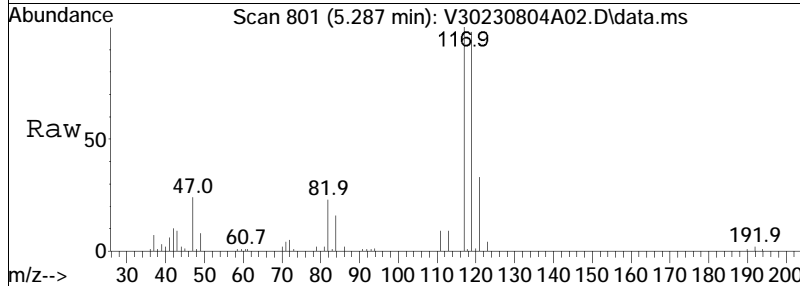
#35
 Chloroform
 Concen: 11.18 ug/L
 RT: 5.140 min Scan# 773
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

Tgt Ion	Resp	Lower	Upper
83	95059		
85	65.4	41.4	86.0
47	26.4	20.5	42.5
48	13.6	9.9	20.5

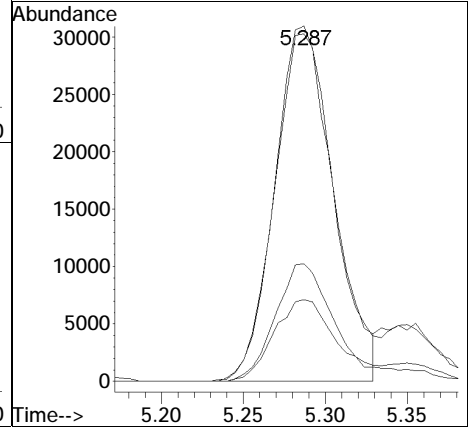
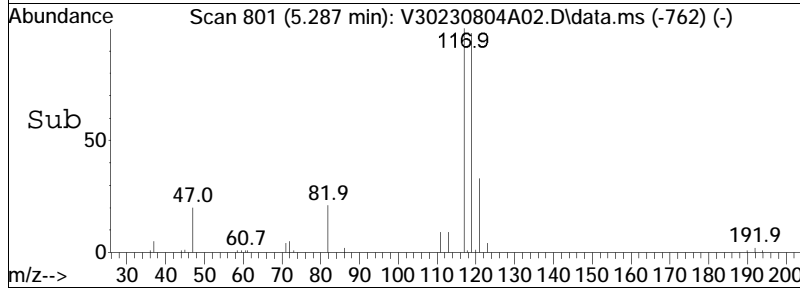


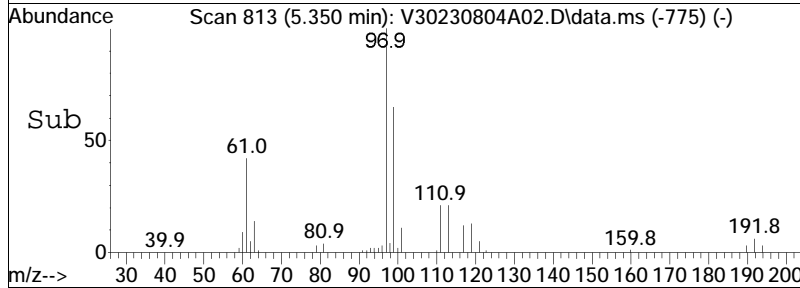
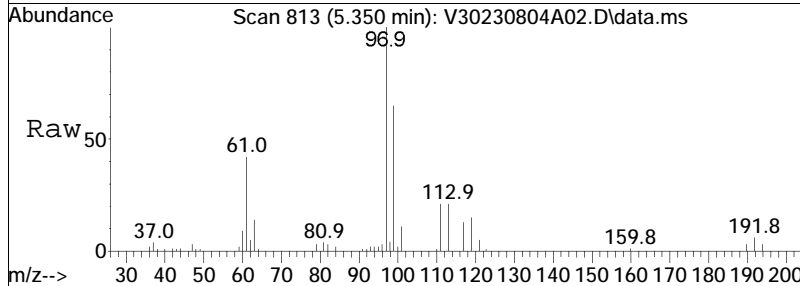
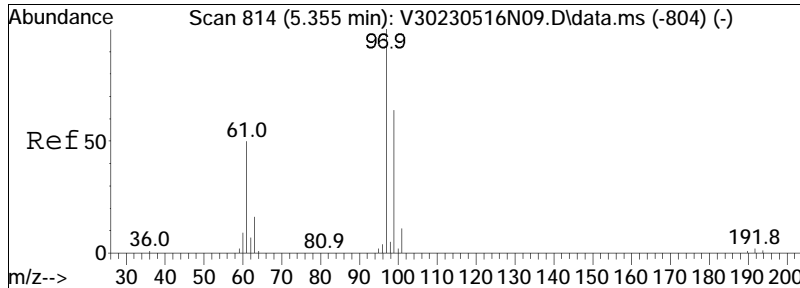


#37
 Carbon tetrachloride
 Concen: 11.40 ug/L
 RT: 5.287 min Scan# 801
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am



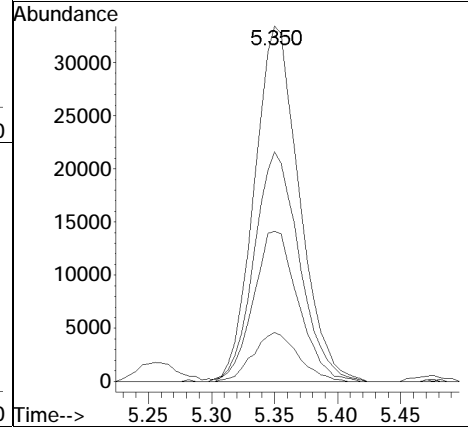
Tgt Ion	Resp	Lower	Upper
117	100		
119	99.0	62.0	128.8
121	32.8	19.6	40.6
82	27.1	18.8	39.0

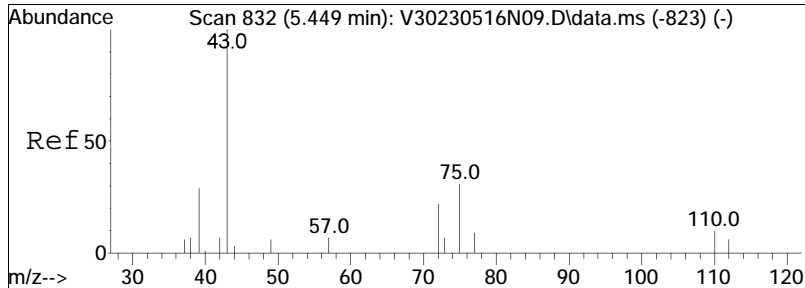




#40
 1,1,1-Trichloroethane
 Concen: 10.97 ug/L
 RT: 5.350 min Scan# 813
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

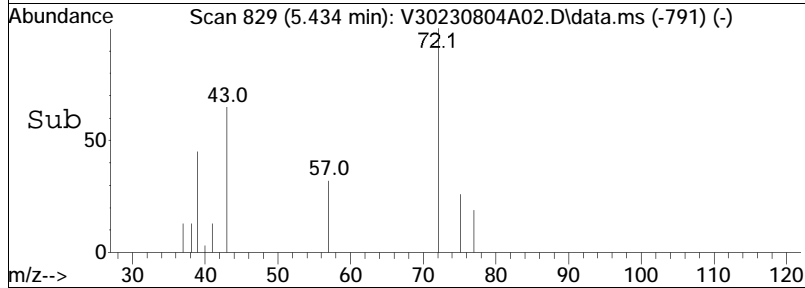
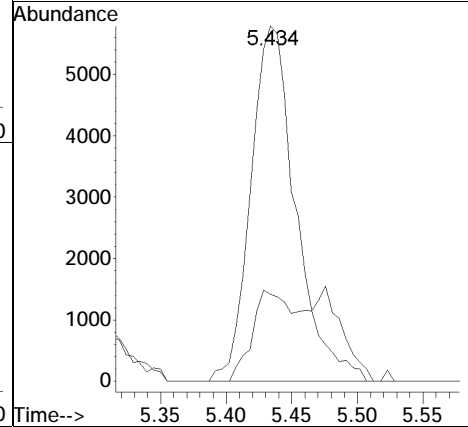
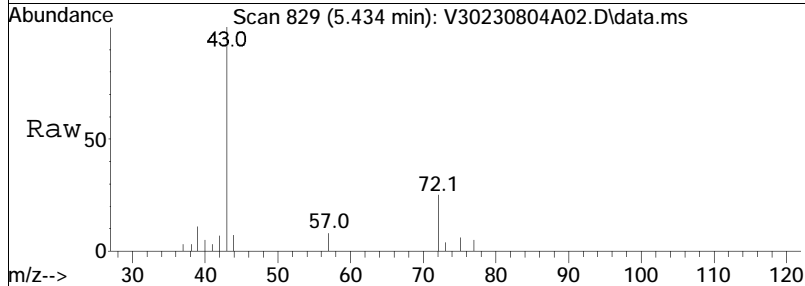
Tgt Ion	Resp	Lower	Upper
97	82894		
97	100		
99	64.8	40.6	84.4
61	42.4	35.0	72.8
63	13.9	11.1	23.0

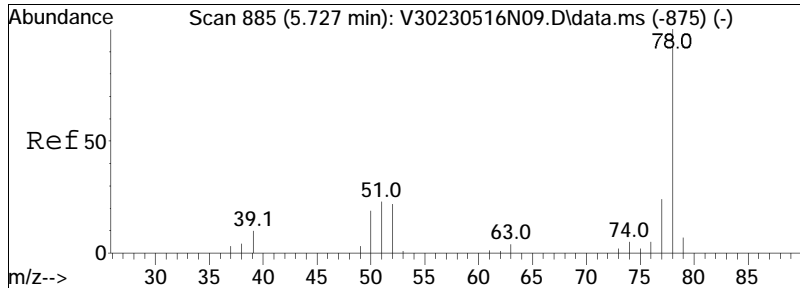




#42
 2-Butanone
 Concen: 9.35 ug/L
 RT: 5.434 min Scan# 829
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

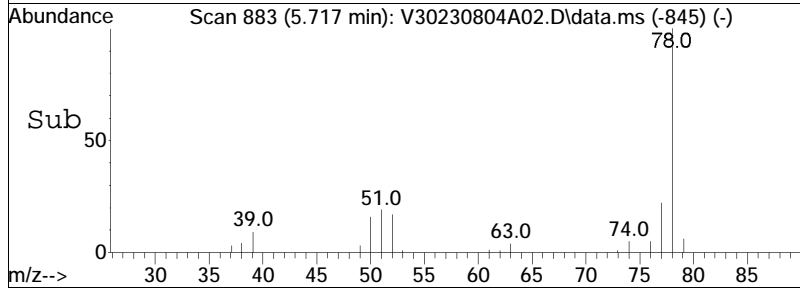
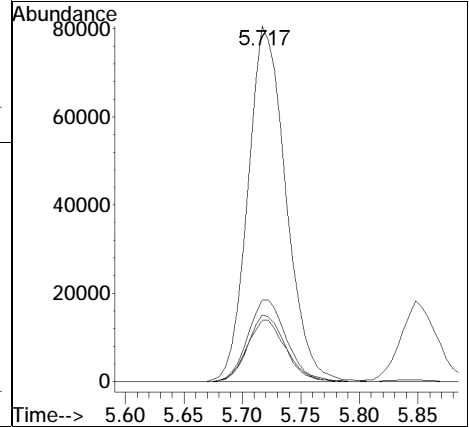
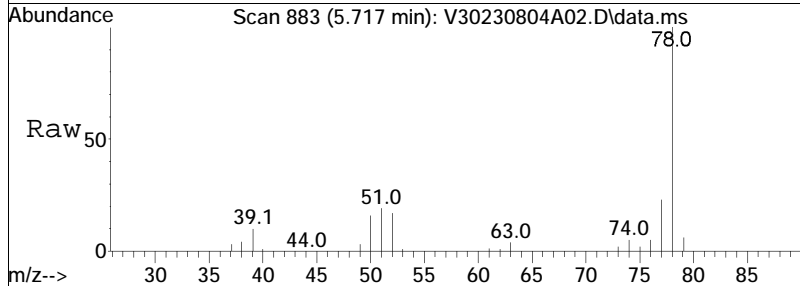
Tgt Ion: 43 Resp: 13827
 Ion Ratio Lower Upper
 43 100
 72 23.1 18.2 27.4

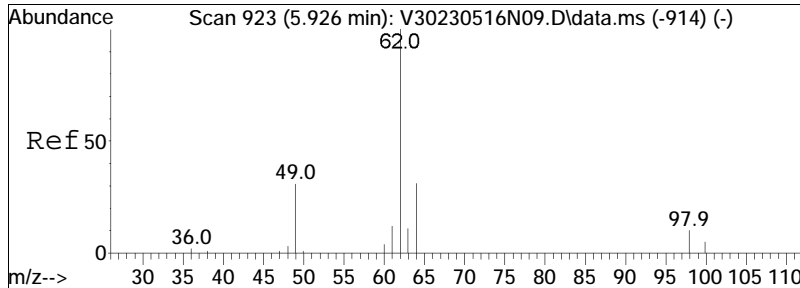




#45
 Benzene
 Concen: 10.85 ug/L
 RT: 5.717 min Scan# 883
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

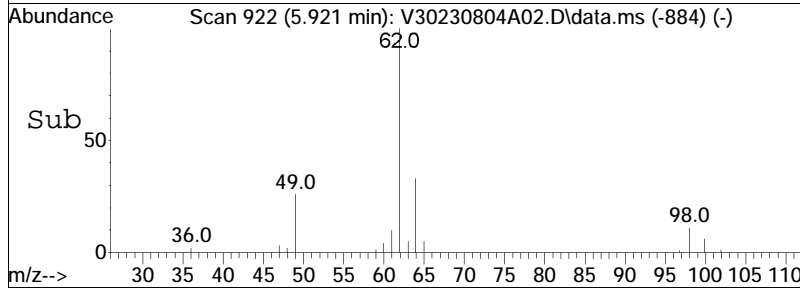
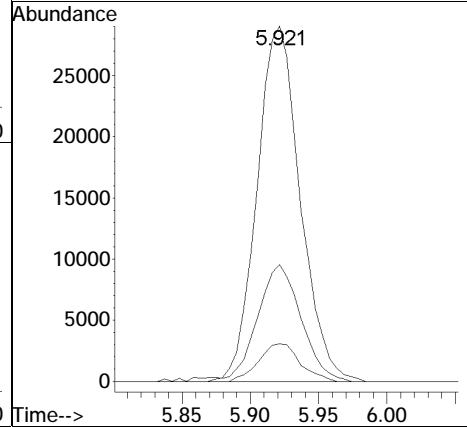
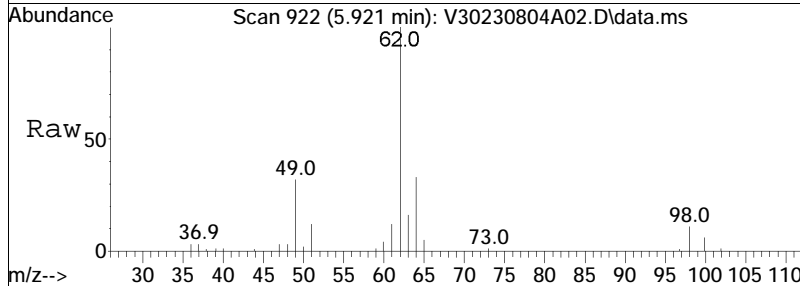
Tgt Ion	Resp	Lower	Upper
78	181000		
77	23.4	15.6	32.4
51	18.8	12.9	26.7
52	17.2	12.4	25.7

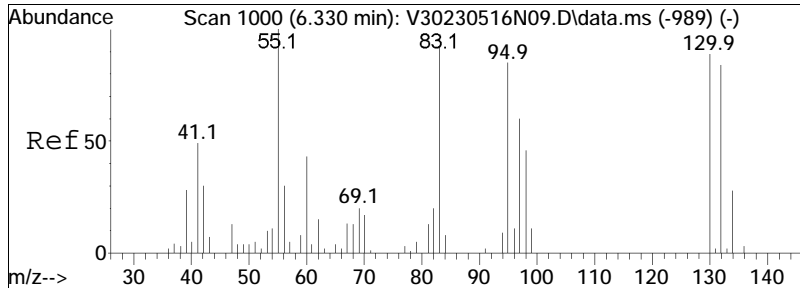




#48
 1,2-Dichloroethane
 Concen: 10.21 ug/L
 RT: 5.921 min Scan# 922
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

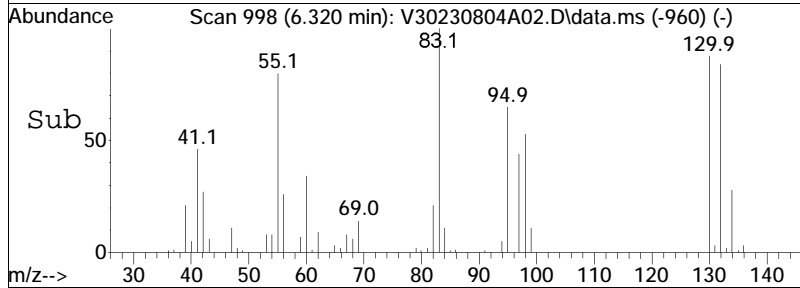
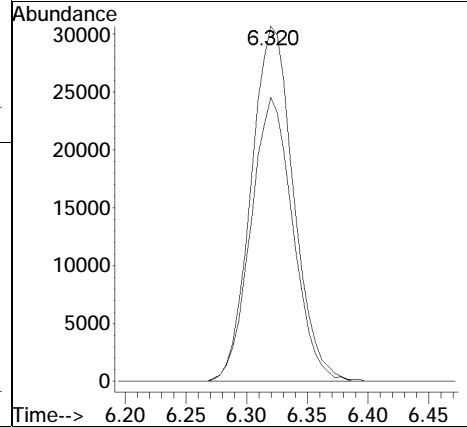
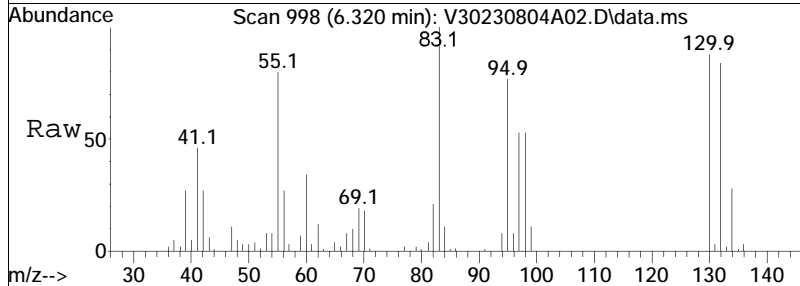
Tgt Ion	Resp	Lower	Upper
62	100		
64	33.8	25.5	38.3
98	10.2	5.5	8.3#

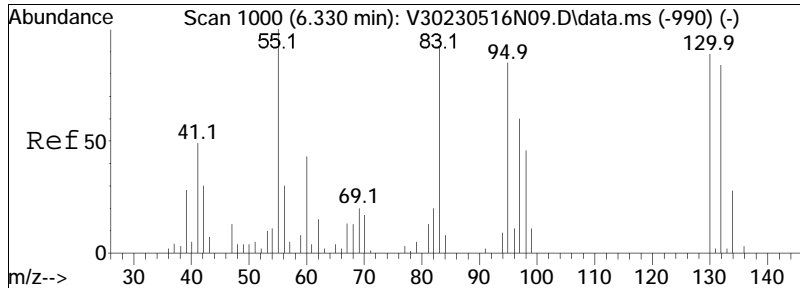




#51
 Methyl cyclohexane
 Concen: 10.61 ug/L
 RT: 6.320 min Scan# 998
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

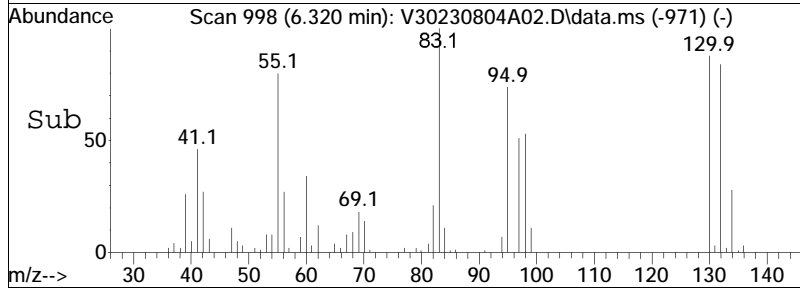
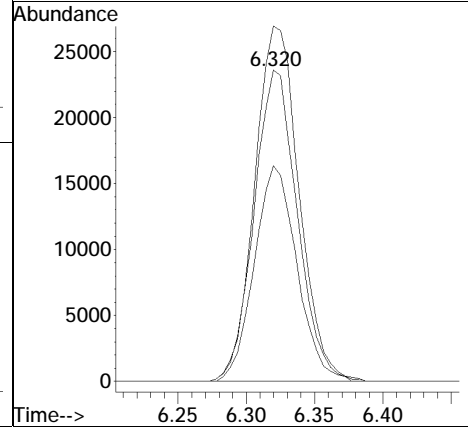
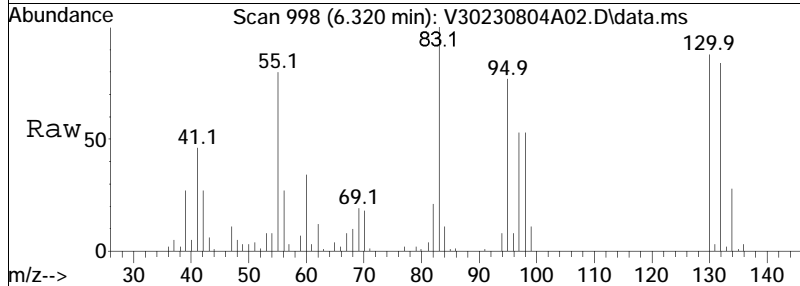
Tgt Ion:	83	Resp:	74406
Ion Ratio	100	Lower	Upper
55	79.2	74.6	112.0

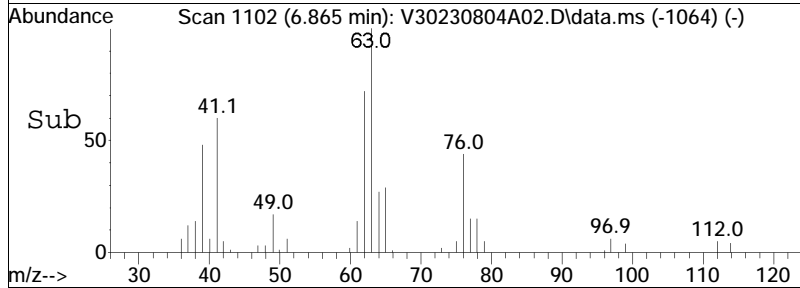
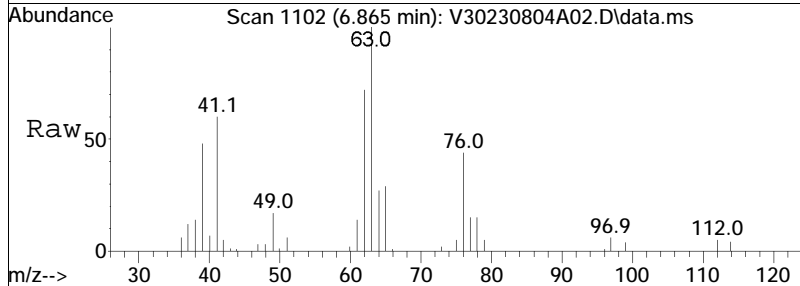
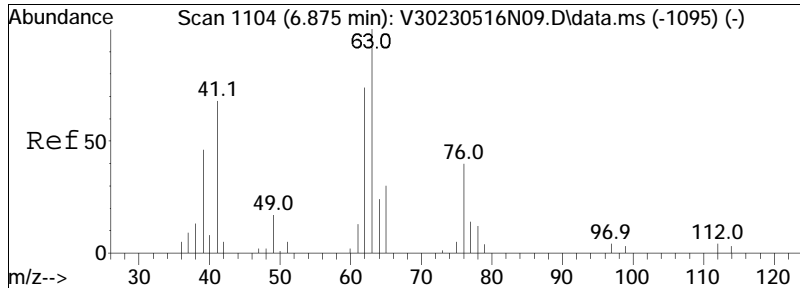




#52
 Trichloroethene
 Concen: 10.10 ug/L
 RT: 6.320 min Scan# 998
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

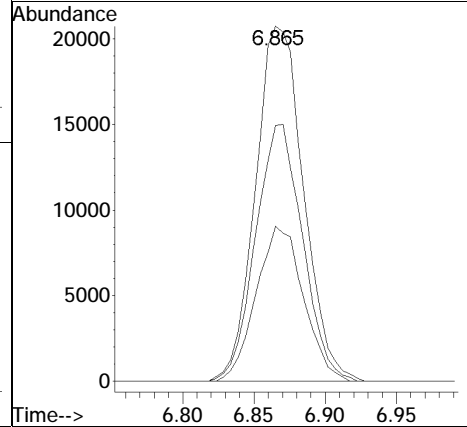
Tgt Ion	Resp	Lower	Upper
95	51937		
95	100		
97	68.3	53.8	80.6
130	117.2	71.4	107.0#

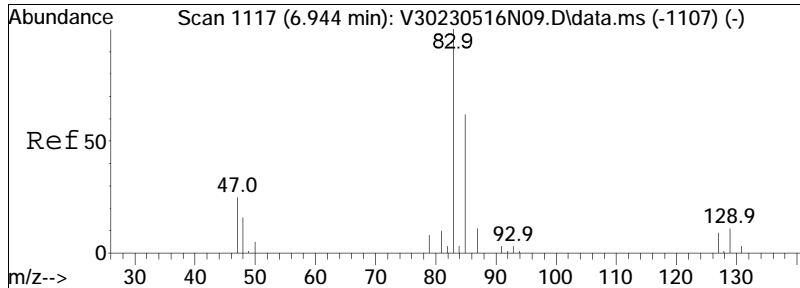




#55
 1,2-Dichloropropane
 Concen: 11.11 ug/L
 RT: 6.865 min Scan# 1102
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

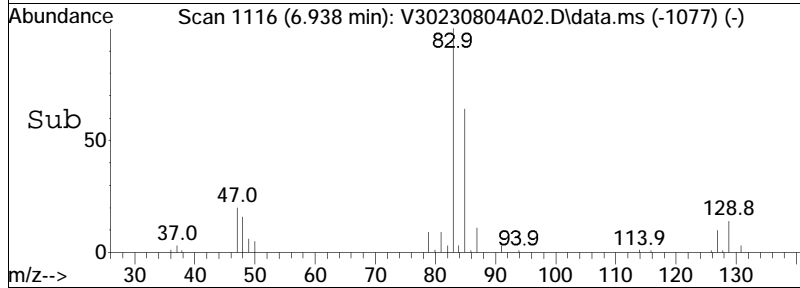
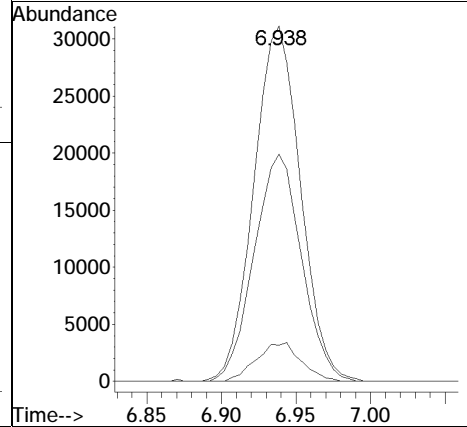
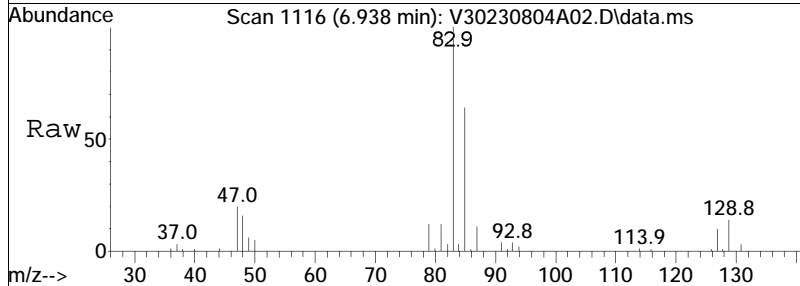
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
63	100		
62	70.6	58.1	87.1
76	43.0	30.4	45.6

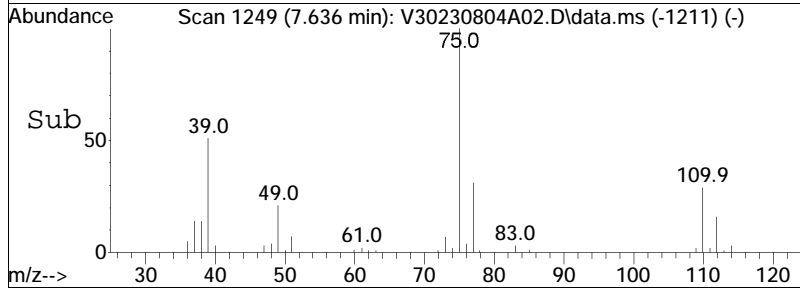
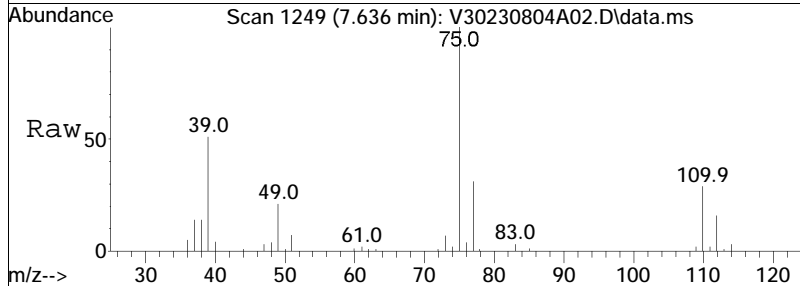
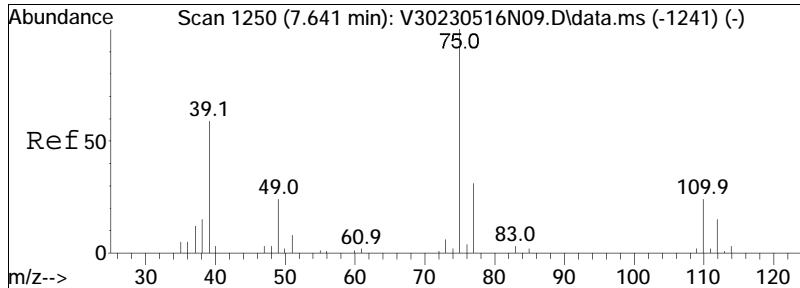




#58
 Bromodichloromethane
 Concen: 10.80 ug/L
 RT: 6.938 min Scan# 1116
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

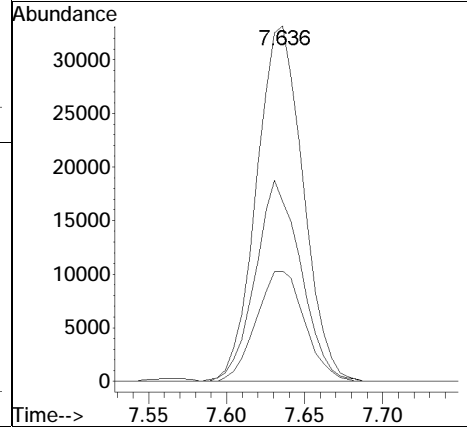
Tgt Ion	Resp	Lower	Upper
83	67875		
85	65.0	50.2	75.2
127	10.5	5.2	7.8#

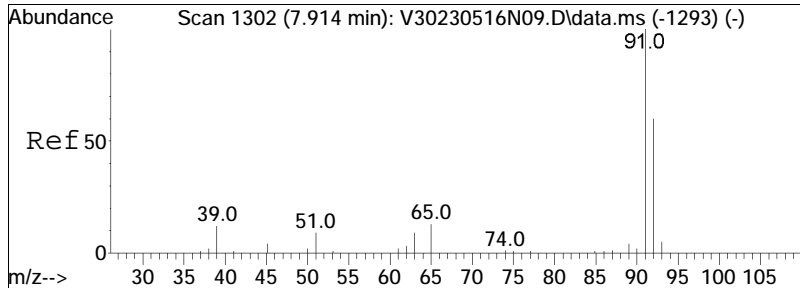




#62
 cis-1,3-Dichloropropene
 Concen: 10.38 ug/L
 RT: 7.636 min Scan# 1249
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

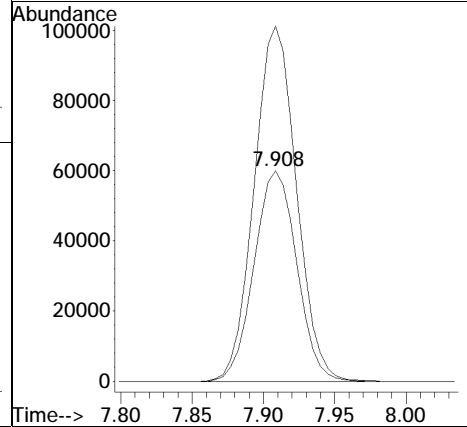
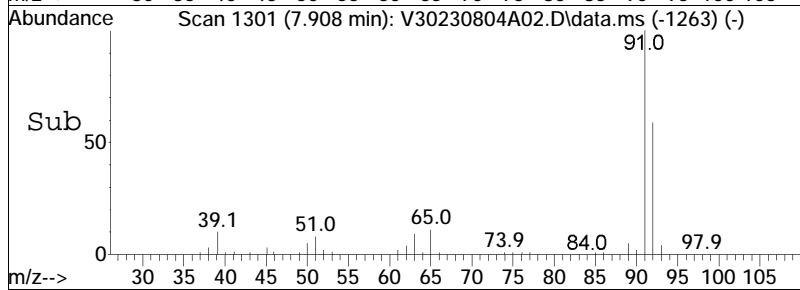
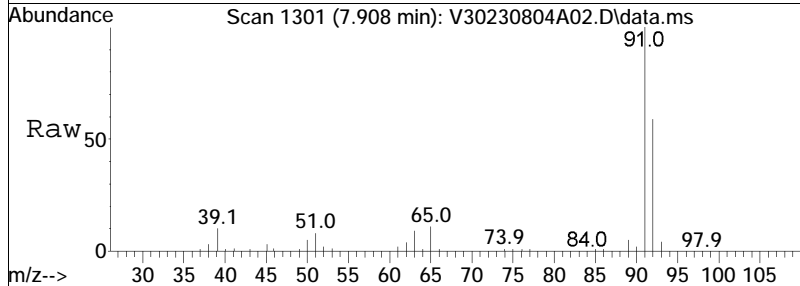
Tgt Ion:	75	Resp:	68600
Ion Ratio	100	Lower	Upper
75	100		
77	32.3	25.4	38.2
39	55.4	54.6	82.0

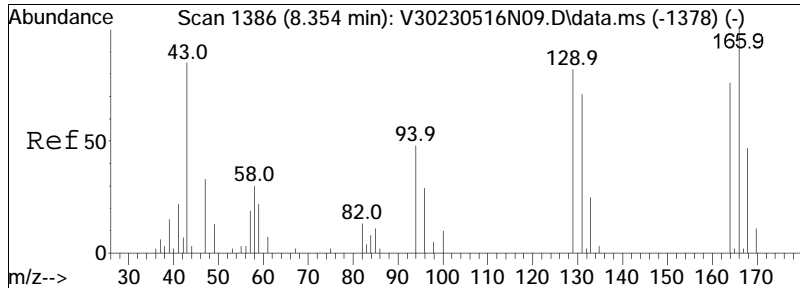




#65
 Toluene
 Concen: 9.57 ug/L
 RT: 7.908 min Scan# 1301
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

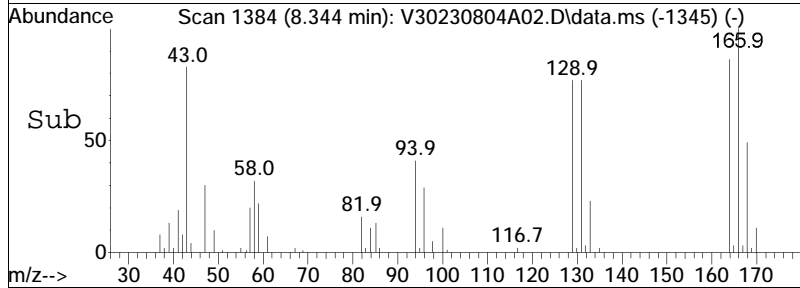
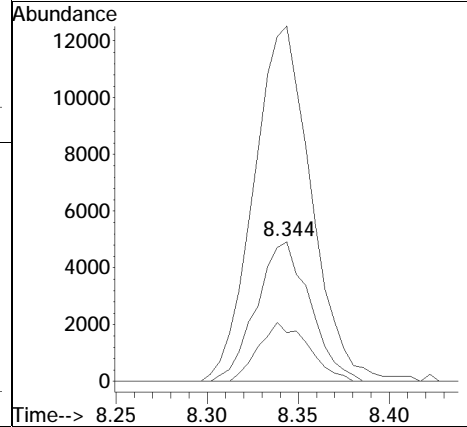
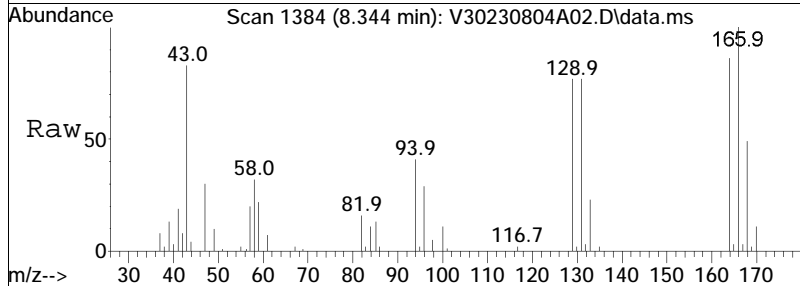
Tgt Ion:	Resp:	Lower	Upper
92	124937		
91	167.0	137.5	206.3

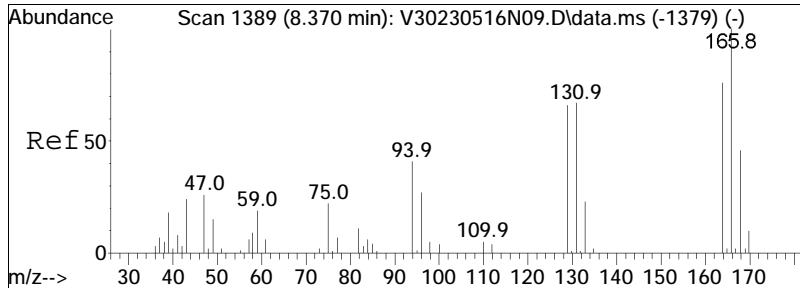




#66
 4-Methyl-2-pentanone
 Concen: 7.74 ug/L
 RT: 8.344 min Scan# 1384
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

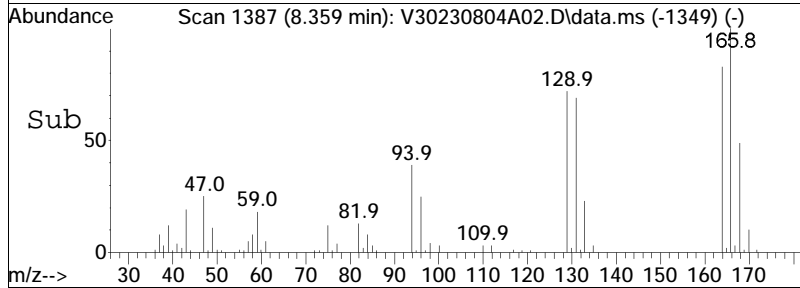
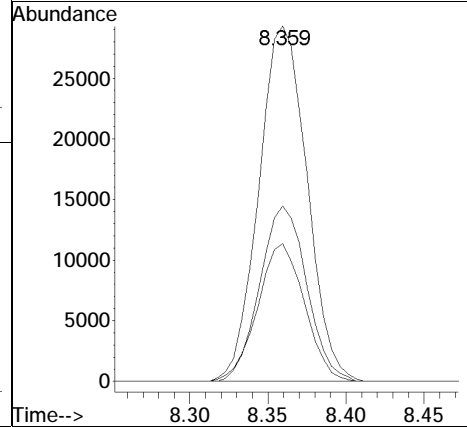
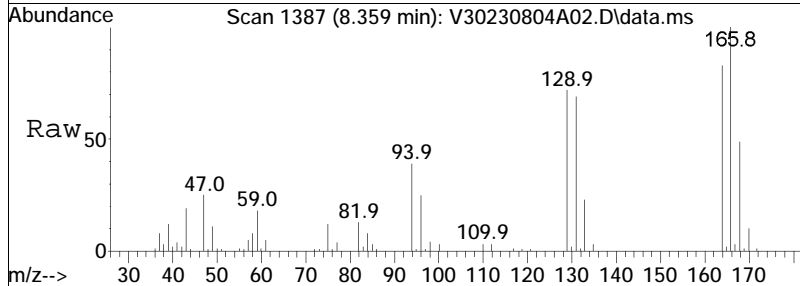
Tgt Ion	Resp	Lower	Upper
58	100		
100	39.4	22.6	34.0#
43	274.1	234.6	351.8

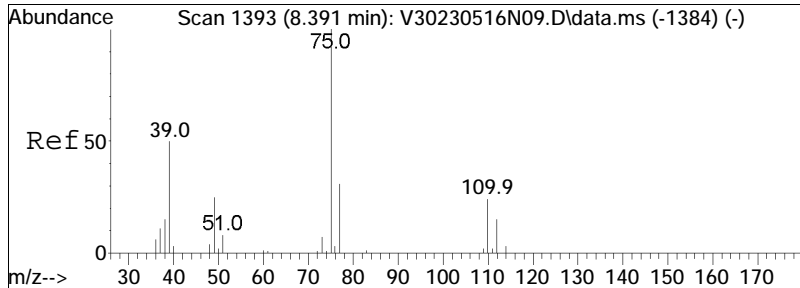




#67
 Tetrachloroethene
 Concen: 10.53 ug/L
 RT: 8.359 min Scan# 1387
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

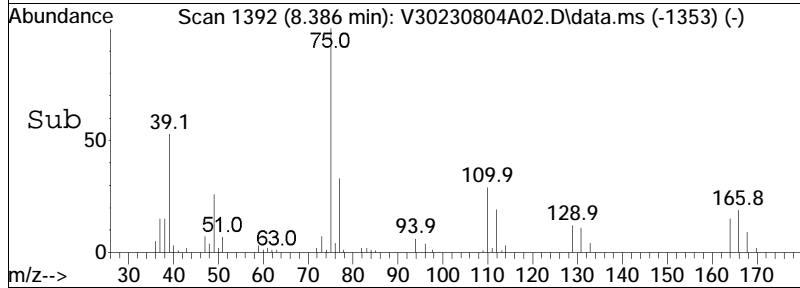
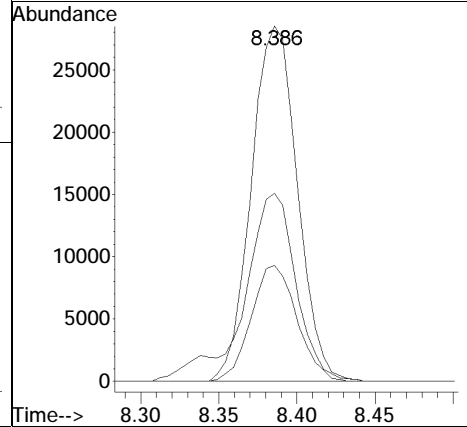
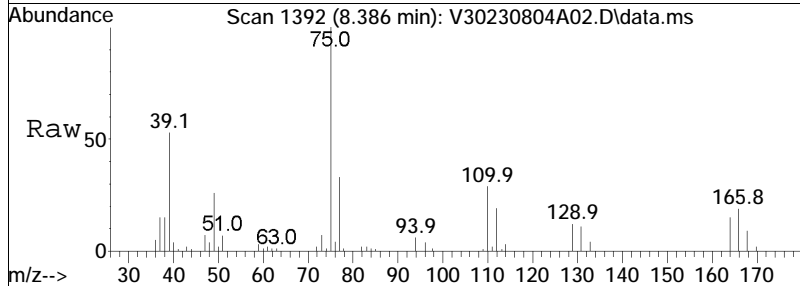
Tgt Ion	Resp	Lower	Upper
166	100		
168	48.0	38.6	58.0
94	37.8	42.6	63.8#

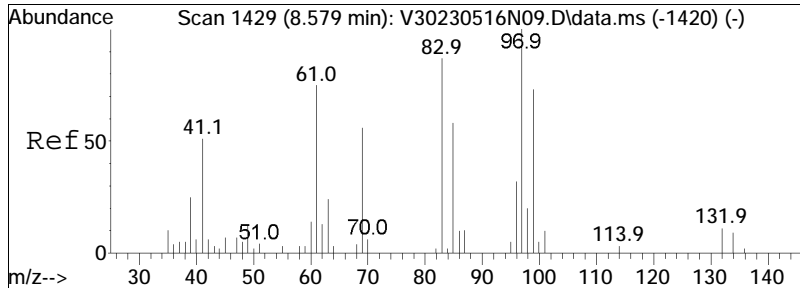




#69
 trans-1,3-Dichloropropene
 Concen: 8.66 ug/L
 RT: 8.386 min Scan# 1392
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

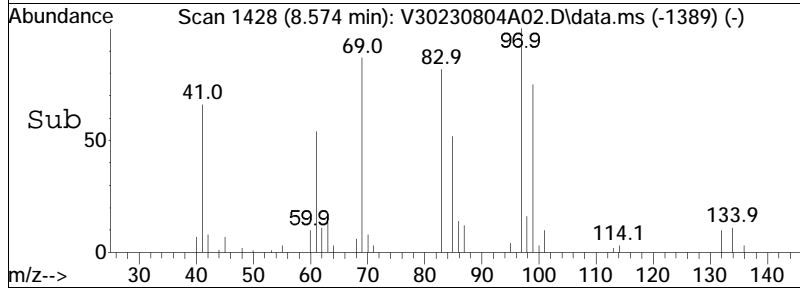
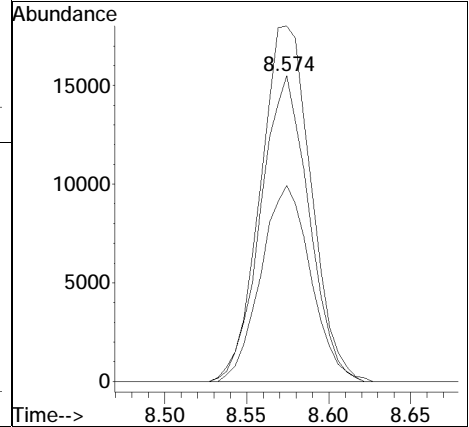
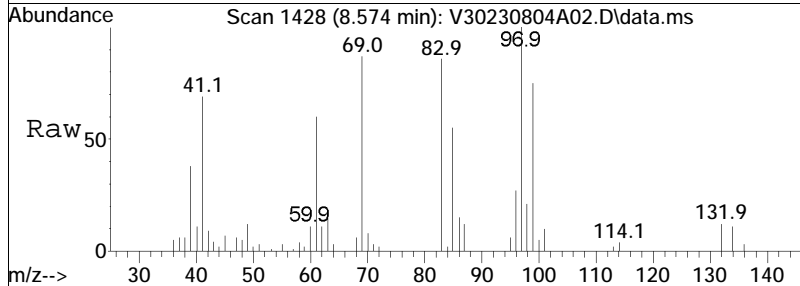
Tgt Ion:	75	Resp:	58535
Ion Ratio	Lower	Upper	
75	100		
77	32.3	25.6	38.4
39	59.5	60.2	90.4#

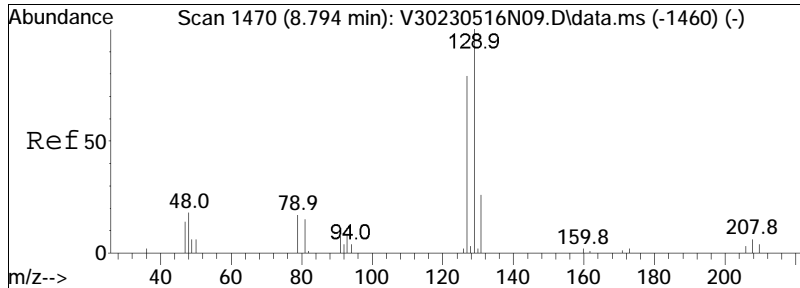




#72
 1,1,2-Trichloroethane
 Concen: 9.02 ug/L
 RT: 8.574 min Scan# 1428
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

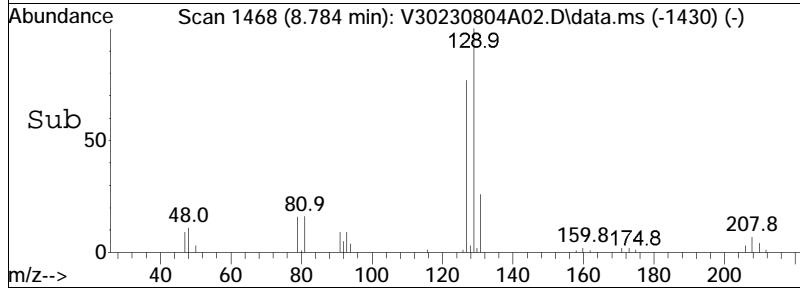
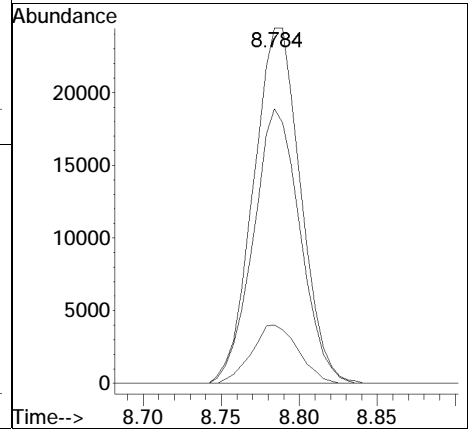
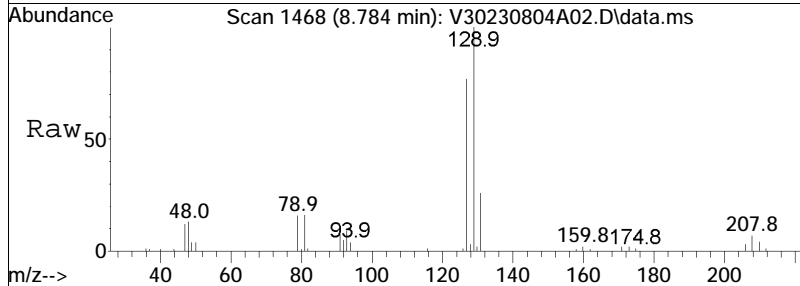
Tgt Ion	Resp	Lower	Upper
83	31643		
83	100		
97	122.6	87.7	131.5
85	66.3	53.1	79.7

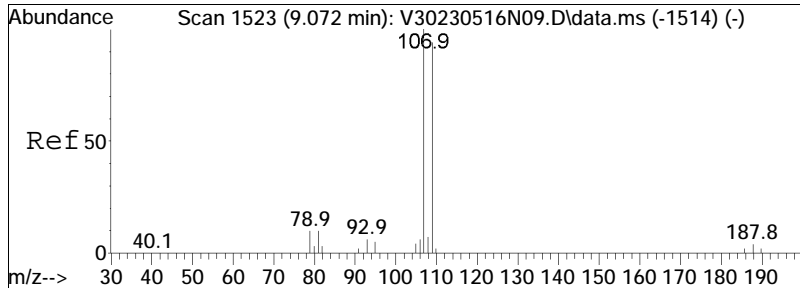




#73
 Chlorodibromomethane
 Concen: 9.19 ug/L
 RT: 8.784 min Scan# 1468
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

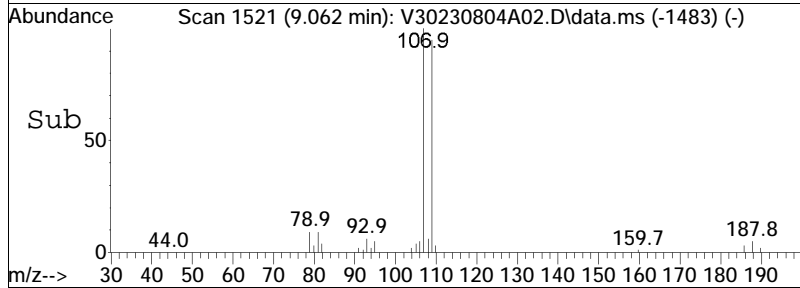
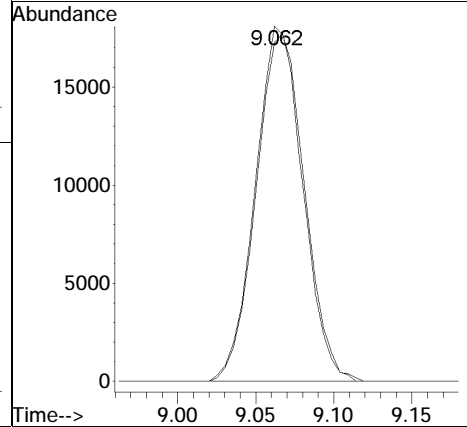
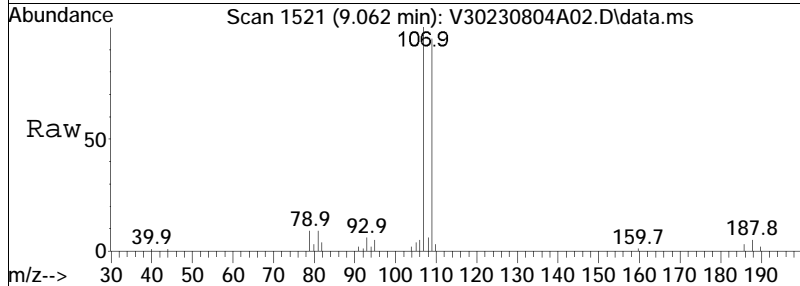
Tgt Ion	Resp	Lower	Upper
129	51469		
129	100		
81	16.3	14.6	22.0
127	76.5	62.6	93.8

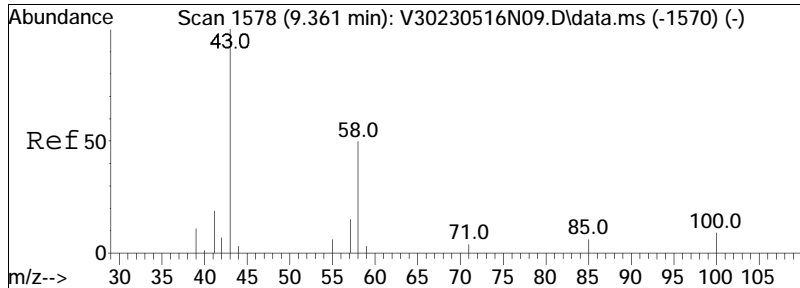




#75
 1,2-Dibromoethane
 Concen: 9.06 ug/L
 RT: 9.062 min Scan# 1521
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

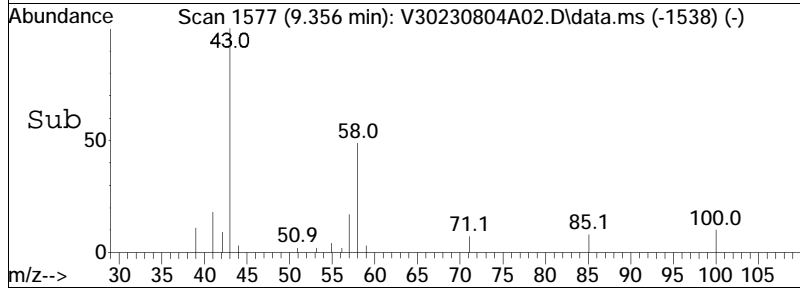
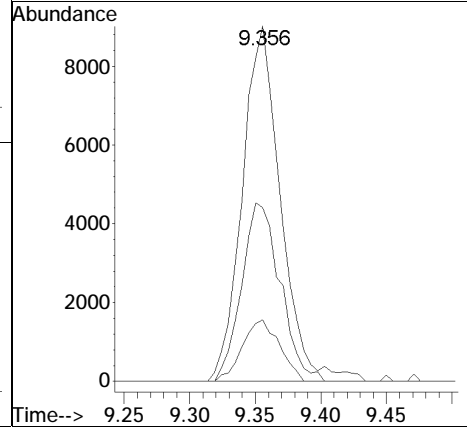
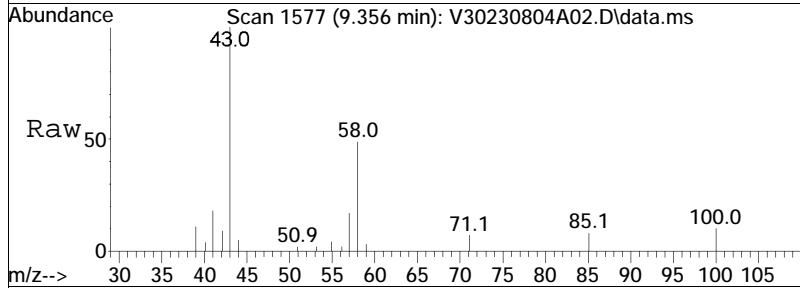
Tgt Ion	Resp	Lower	Upper
107	39149		
107	100		
109	94.8	75.0	112.4

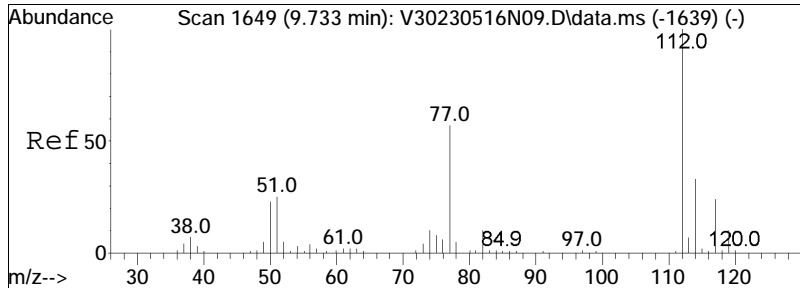




#77
 2-Hexanone
 Concen: 7.20 ug/L
 RT: 9.356 min Scan# 1577
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

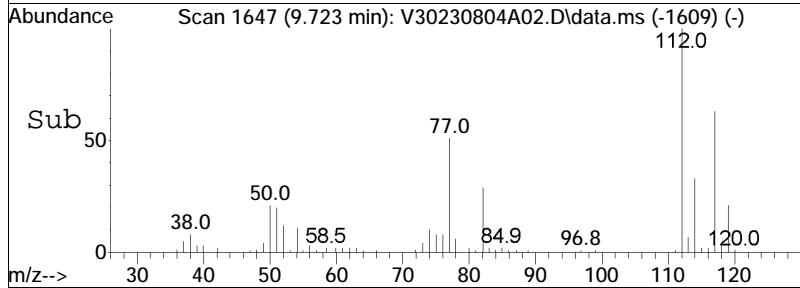
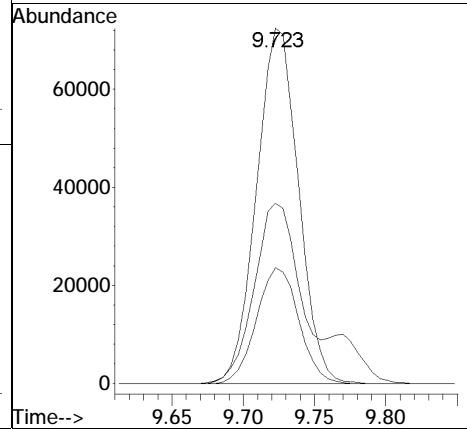
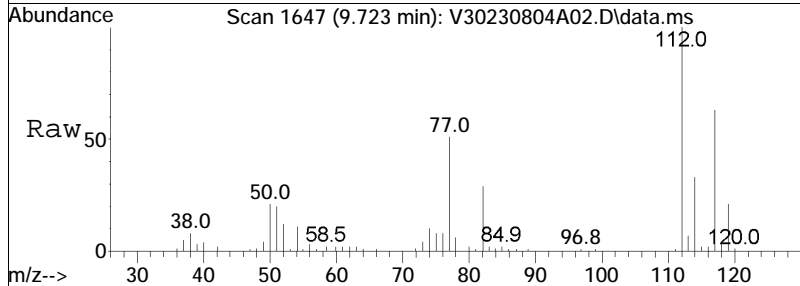
Tgt Ion	Resp	Lower	Upper
43	18437		
58	50.3	38.6	58.0
57	16.7	14.1	21.1

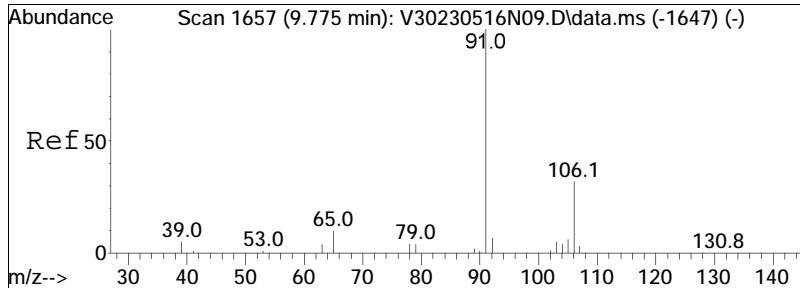




#78
 Chlorobenzene
 Concen: 9.68 ug/L
 RT: 9.723 min Scan# 1647
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

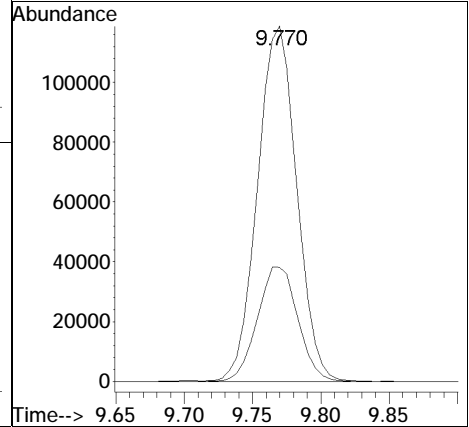
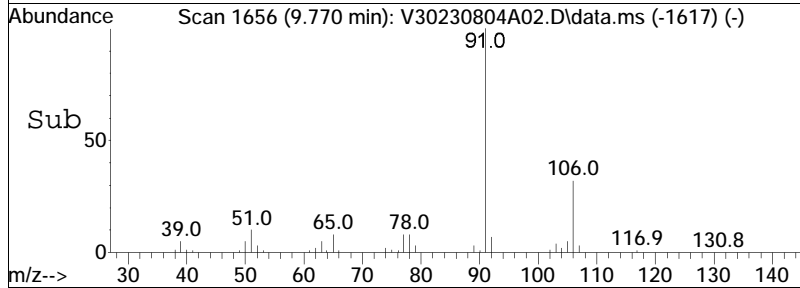
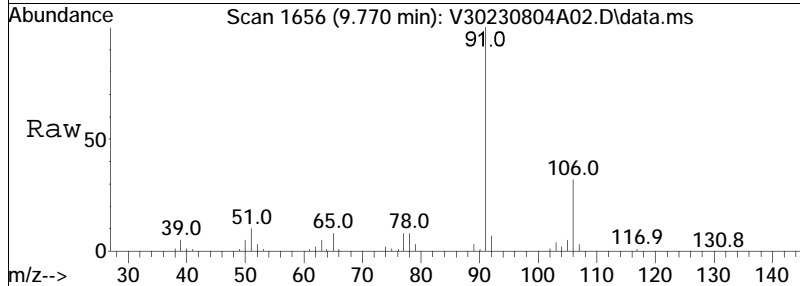
Tgt Ion	Resp	Lower	Upper
112	147852		
77	54.7	54.8	82.2#
114	32.8	25.4	38.0

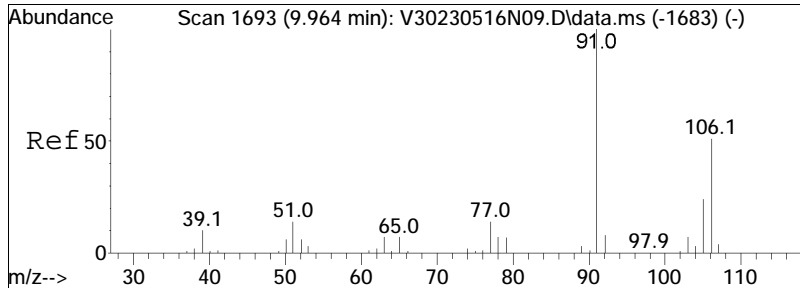




#79
 Ethylbenzene
 Concen: 9.39 ug/L
 RT: 9.770 min Scan# 1656
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

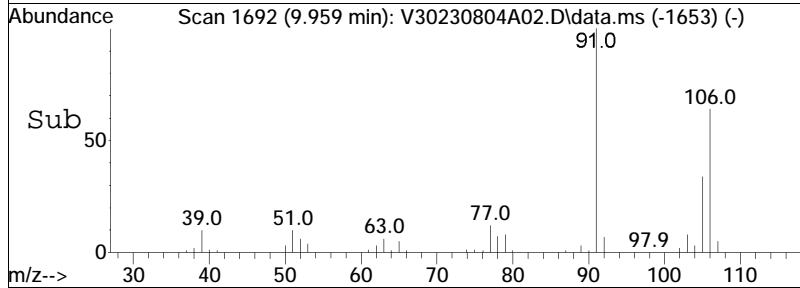
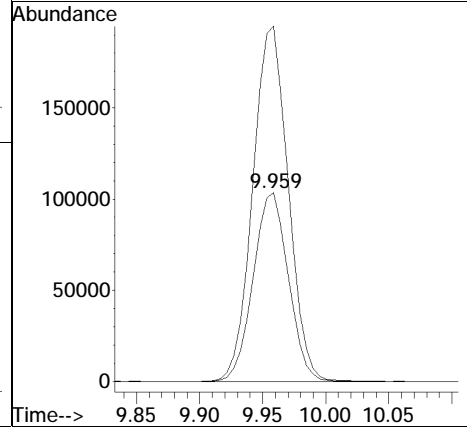
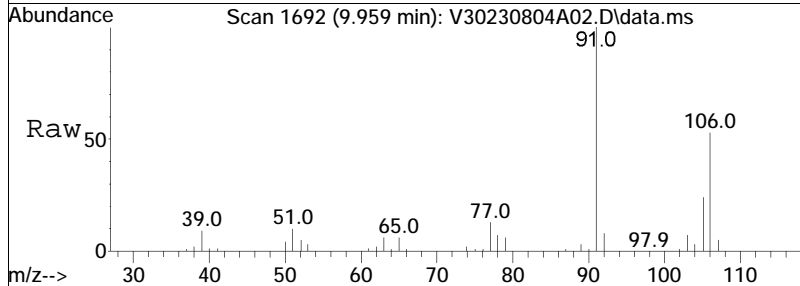
Tgt Ion	Resp	Lower	Upper
91	100		
106	33.2	23.4	35.2

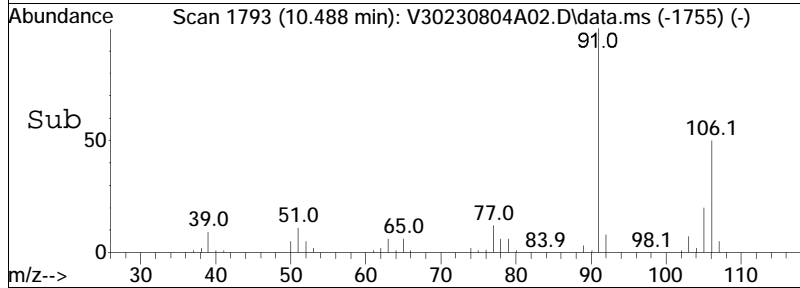
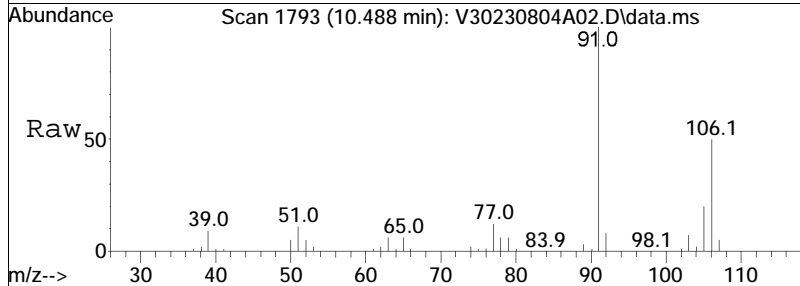
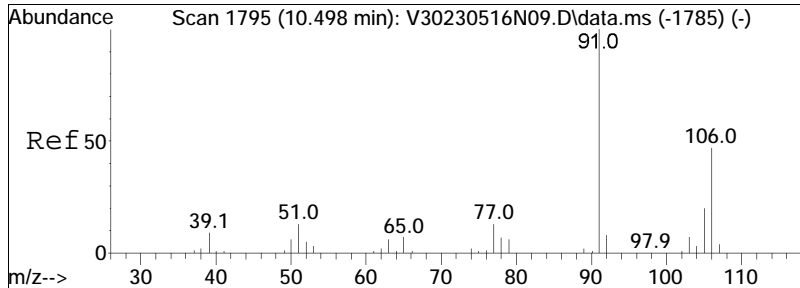




#81
 p/m Xylene
 Concen: 19.23 ug/L
 RT: 9.959 min Scan# 1692
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

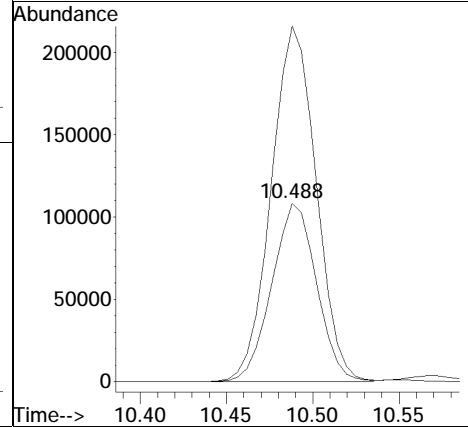
Tgt Ion	Resp	Lower	Upper
106	100		
91	189.7	171.4	257.2

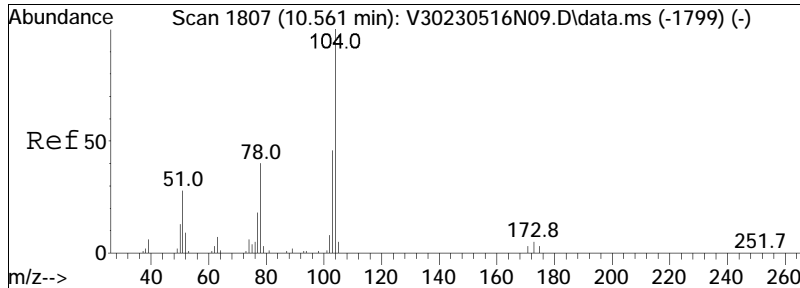




#82
 o Xylene
 Concen: 18.90 ug/L
 RT: 10.488 min Scan# 1793
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

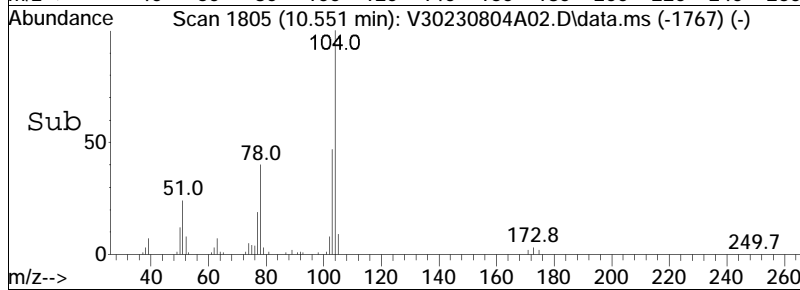
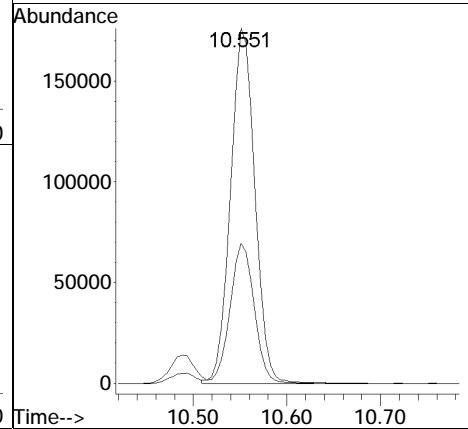
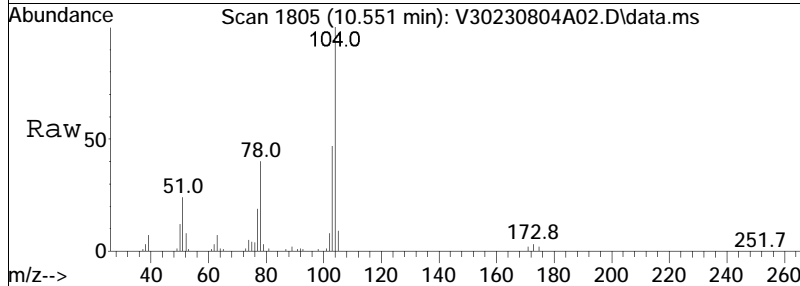
Tgt Ion	Resp	Lower	Upper
106	194286		
91	200.8	179.2	268.8

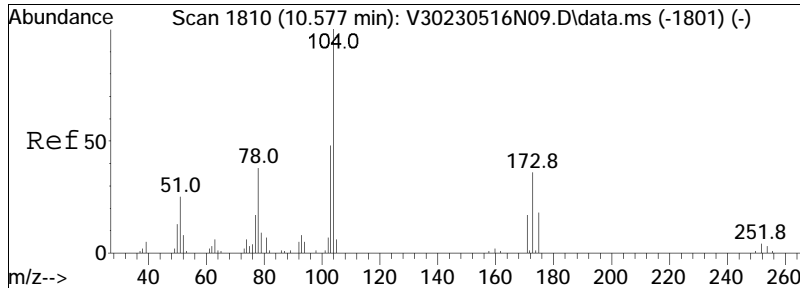




#83
 Styrene
 Concen: 19.09 ug/L
 RT: 10.551 min Scan# 1805
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

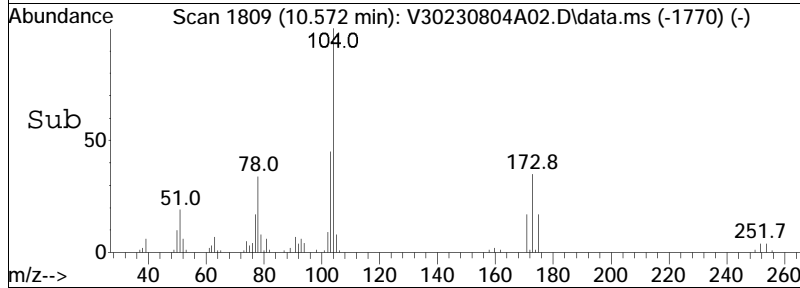
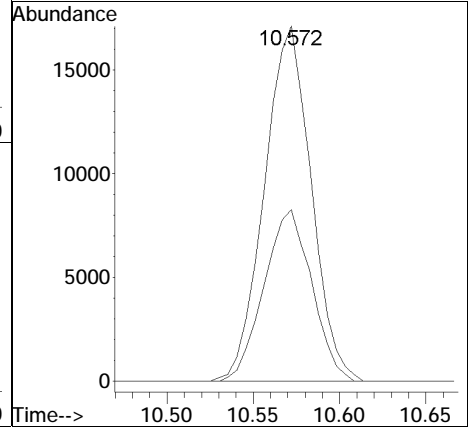
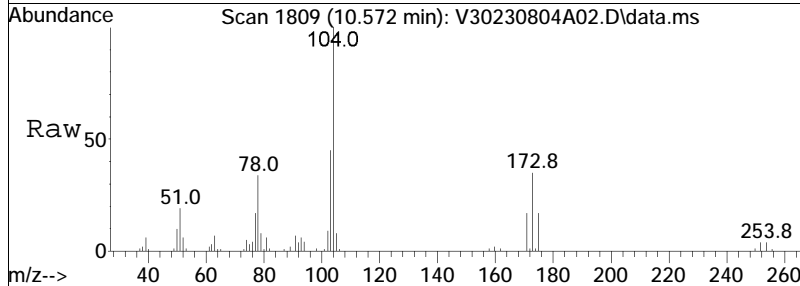
Tgt Ion	Resp	Lower	Upper
104	100		
78	39.0	38.1	57.1

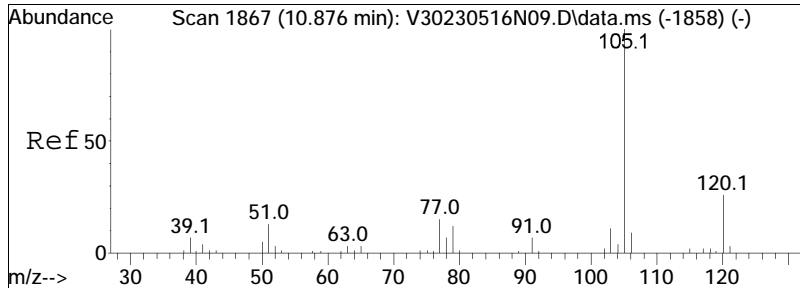




#85
 Bromoform
 Concen: 8.77 ug/L
 RT: 10.572 min Scan# 1809
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

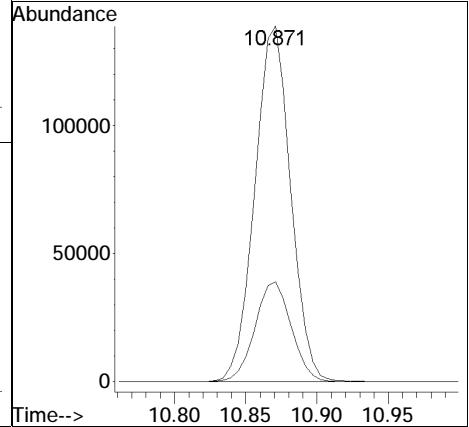
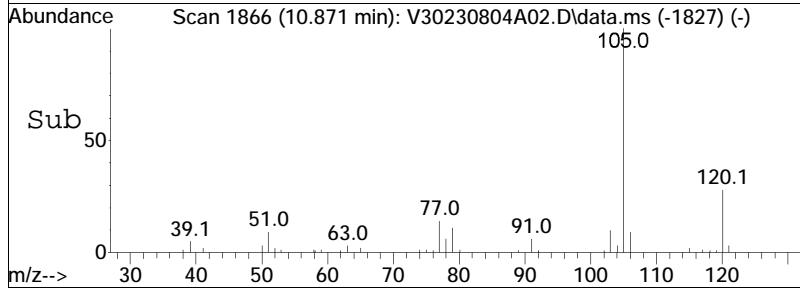
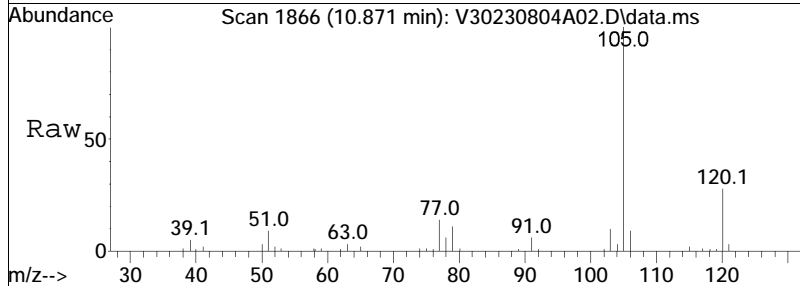
Tgt Ion	Resp	Lower	Upper
173	32294		
173	100		
175	49.3	37.8	56.6

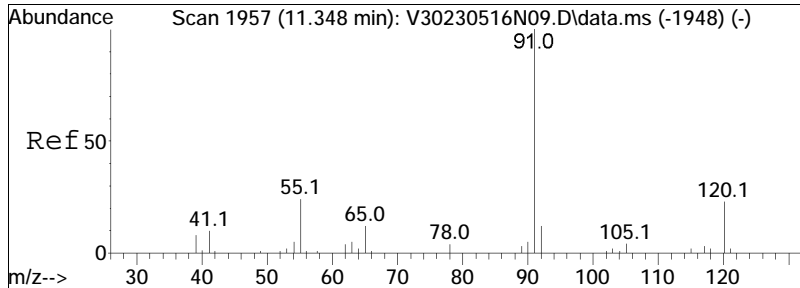




#87
 Isopropylbenzene
 Concen: 8.75 ug/L
 RT: 10.871 min Scan# 1866
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

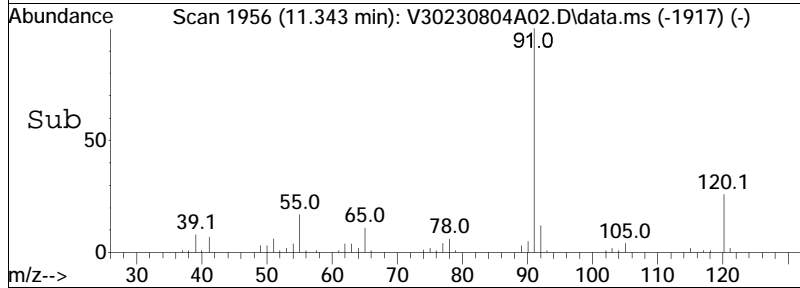
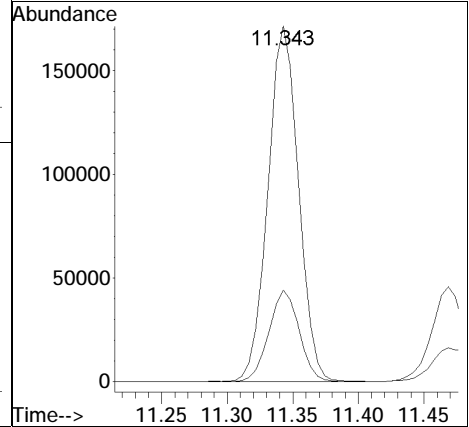
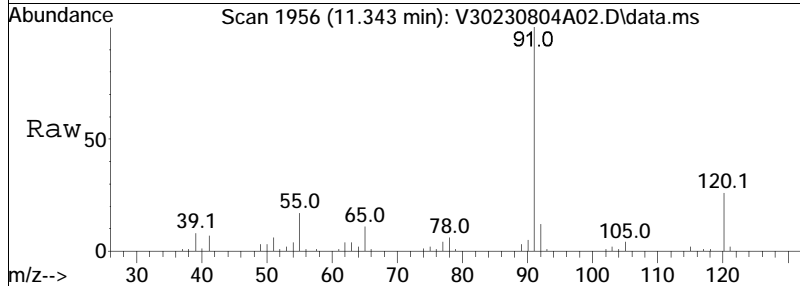
Tgt Ion	105	120	Resp	Lower	Upper
Ion Ratio	100	28.3	241705	20.0	30.0

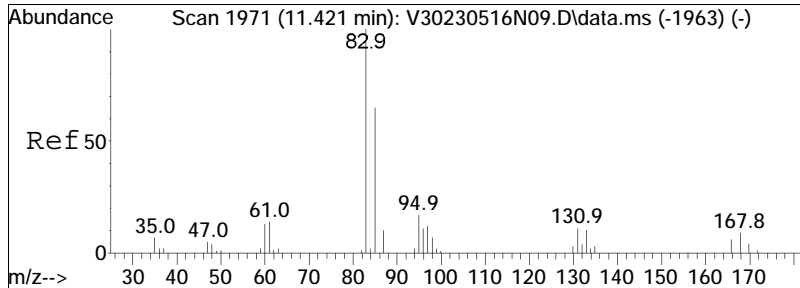




#90
 n-Propylbenzene
 Concen: 8.74 ug/L
 RT: 11.343 min Scan# 1956
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

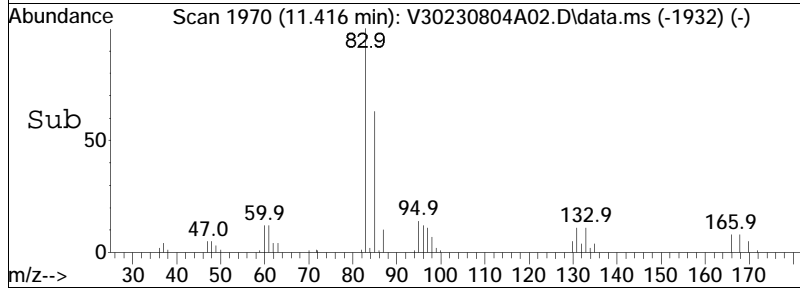
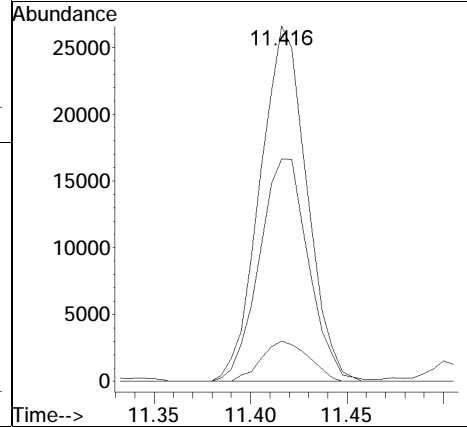
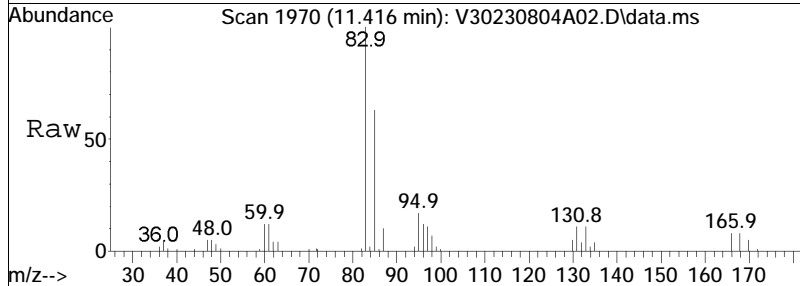
Tgt Ion:	Resp:	Lower	Upper
91	100		
120	25.3	16.3	24.5#

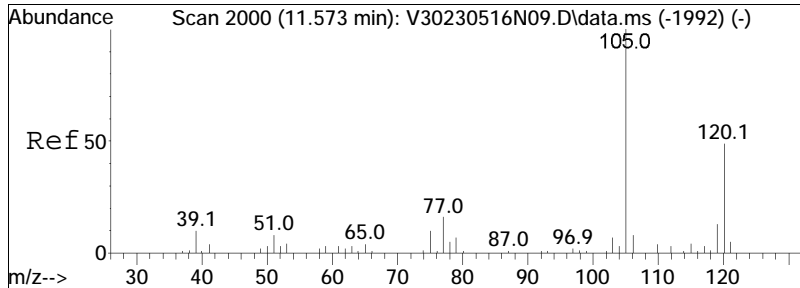




#92
 1,1,2,2-Tetrachloroethane
 Concen: 9.37 ug/L
 RT: 11.416 min Scan# 1970
 Delta R.T. -0.000 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

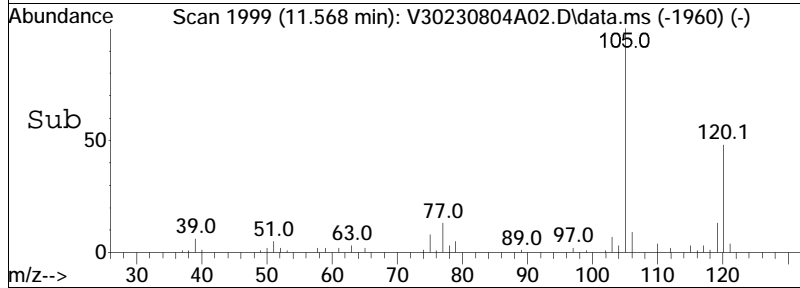
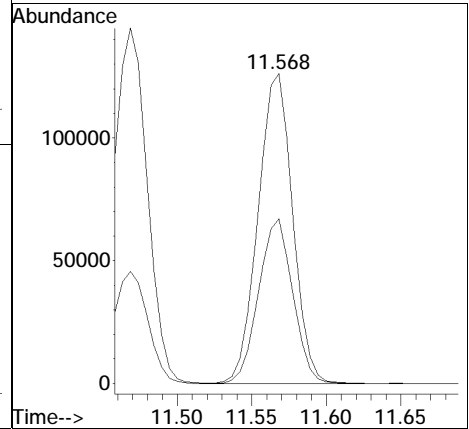
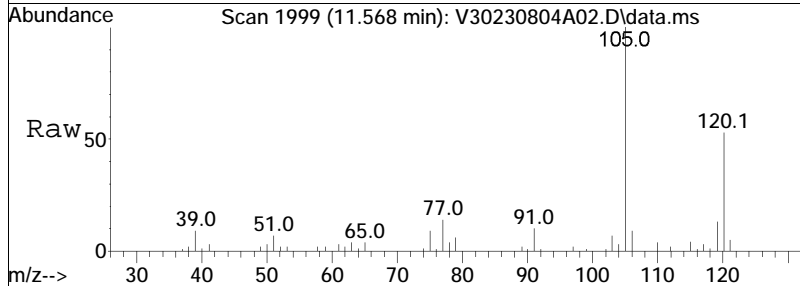
Tgt Ion	Resp	Lower	Upper
83	44842		
83	100		
131	11.5	6.6	10.0#
85	66.1	51.8	77.6

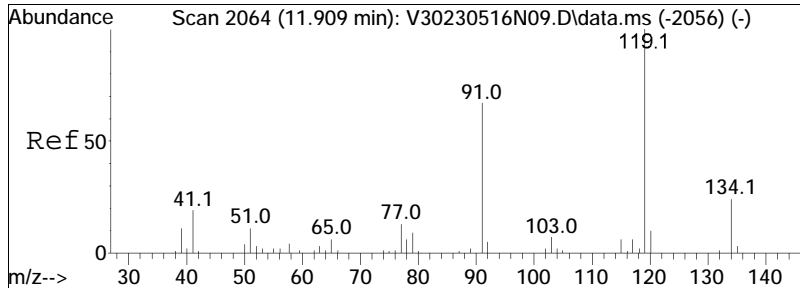




#95
 1,3,5-Trimethylbenzene
 Concen: 8.90 ug/L
 RT: 11.568 min Scan# 1999
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

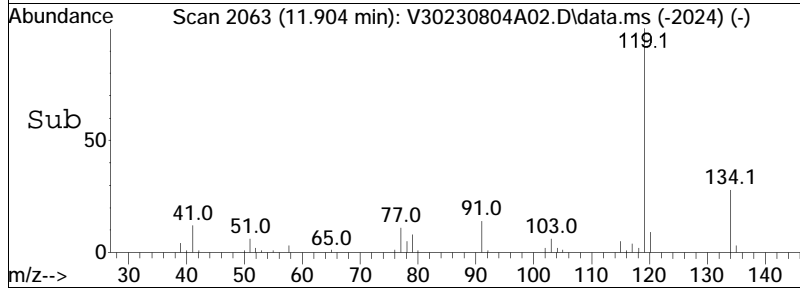
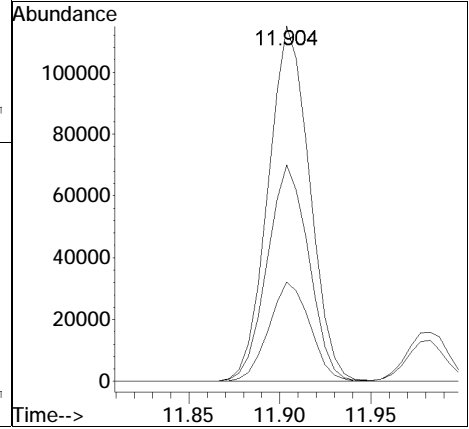
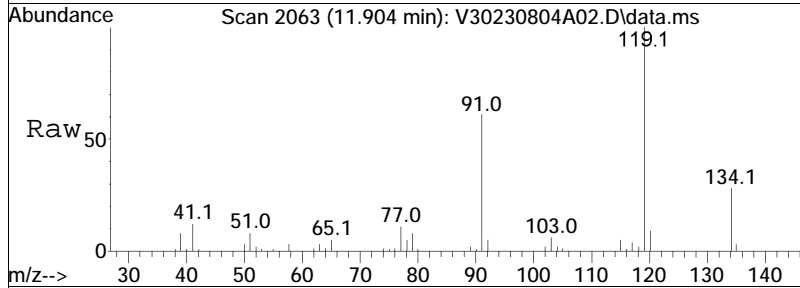
Tgt Ion	Resp	Lower	Upper
105	100		
120	52.3	37.8	56.6

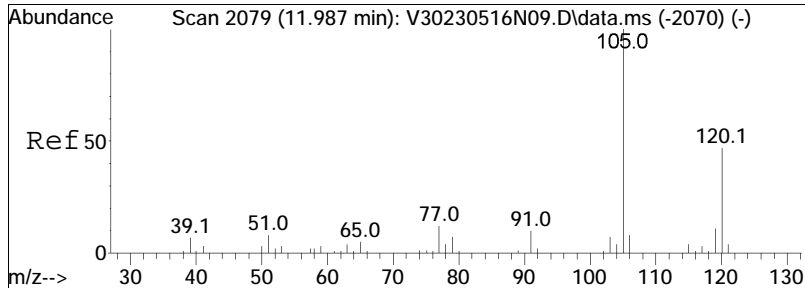




#99
 tert-Butylbenzene
 Concen: 8.82 ug/L
 RT: 11.904 min Scan# 2063
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

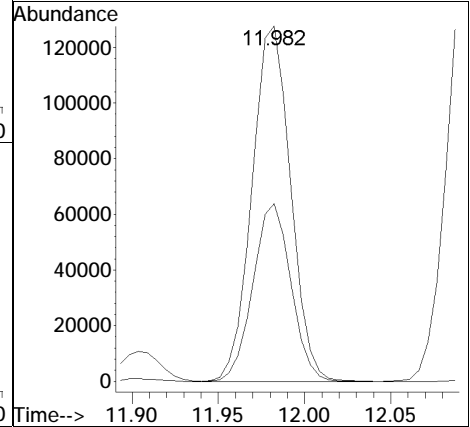
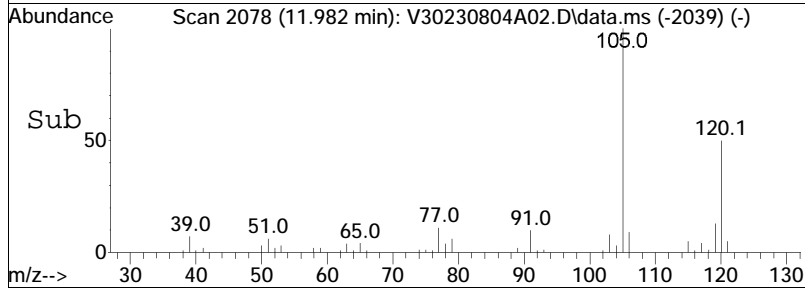
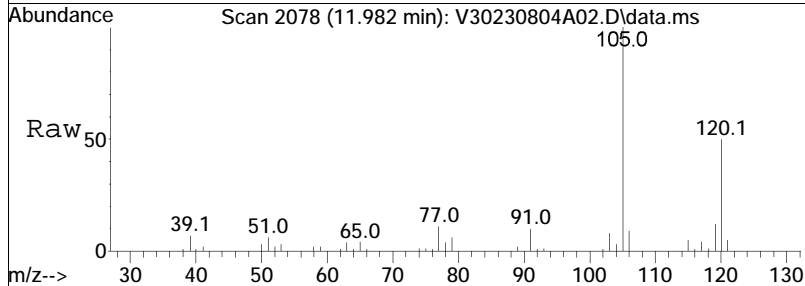
Tgt Ion	Resp	Lower	Upper
119	182360		
91	61.0	58.8	88.2
134	27.6	18.6	27.8

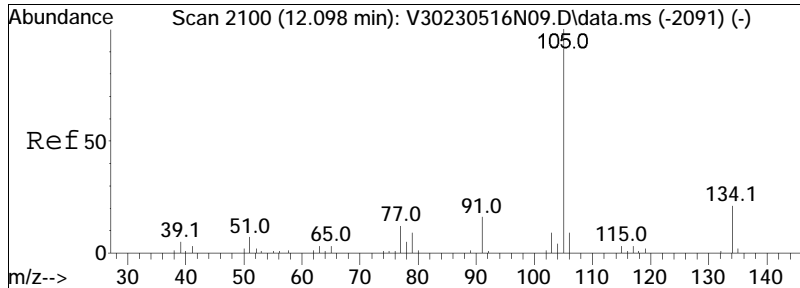




#102
 1,2,4-Trimethylbenzene
 Concen: 8.84 ug/L
 RT: 11.982 min Scan# 2078
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

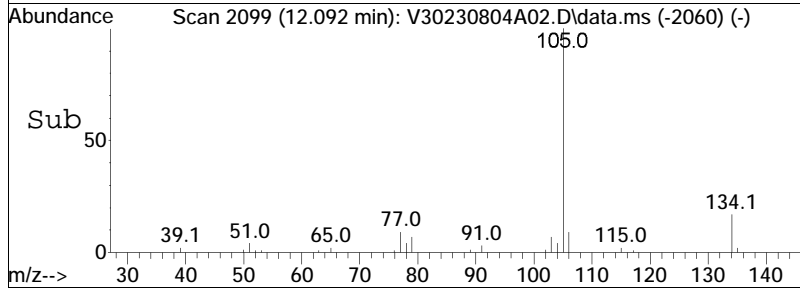
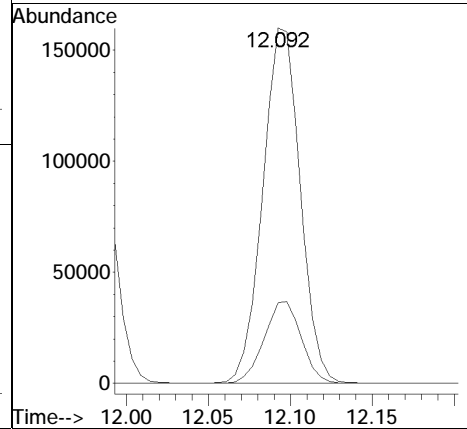
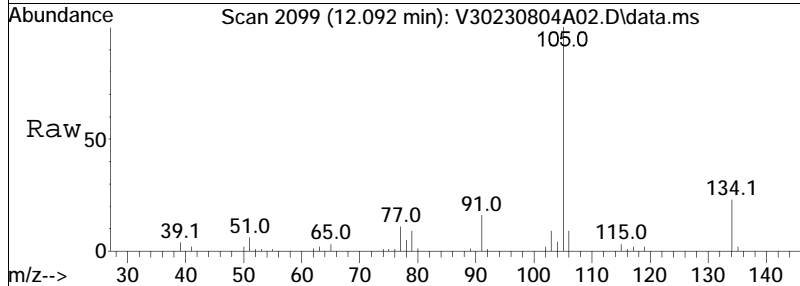
Tgt Ion	Resp	Lower	Upper
105	100		
120	49.2	35.2	52.8

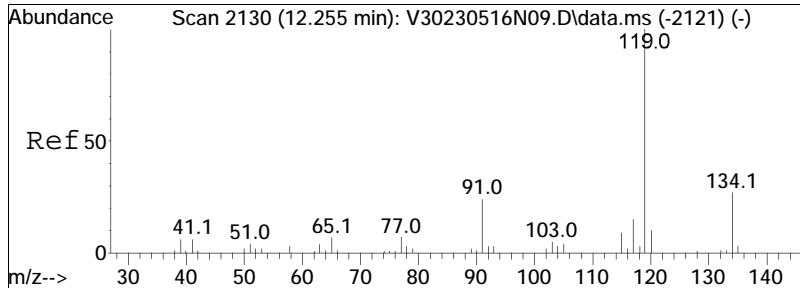




#103
 sec-Butylbenzene
 Concen: 8.81 ug/L
 RT: 12.092 min Scan# 2099
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

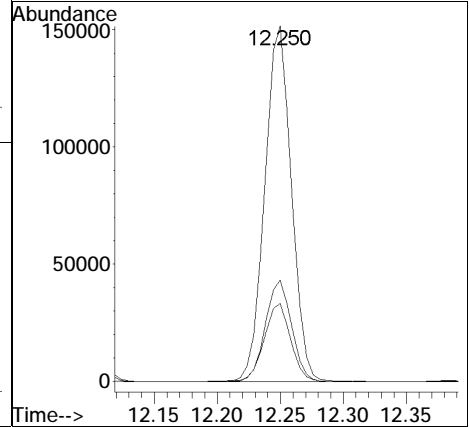
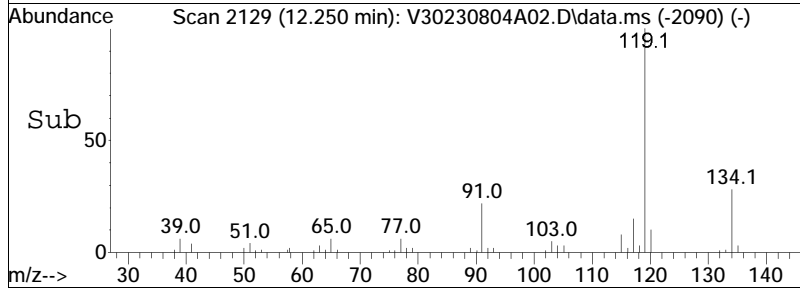
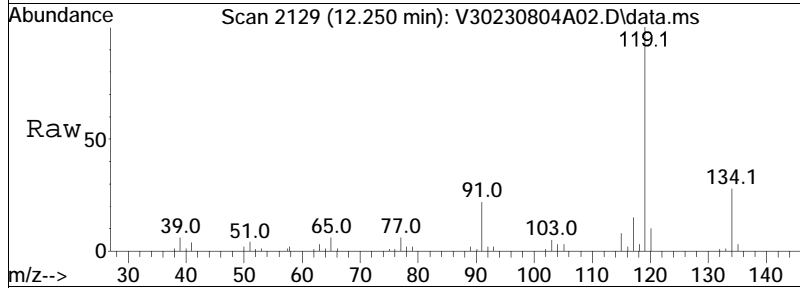
Tgt Ion	Resp	Lower	Upper
105	100		
134	22.9	11.4	23.6

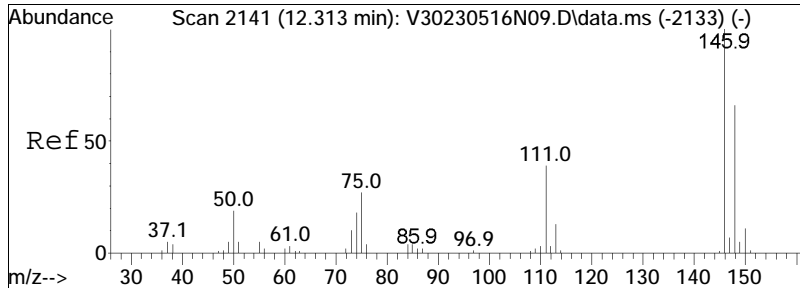




#104
 p-Isopropyltoluene
 Concen: 8.77 ug/L
 RT: 12.250 min Scan# 2129
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

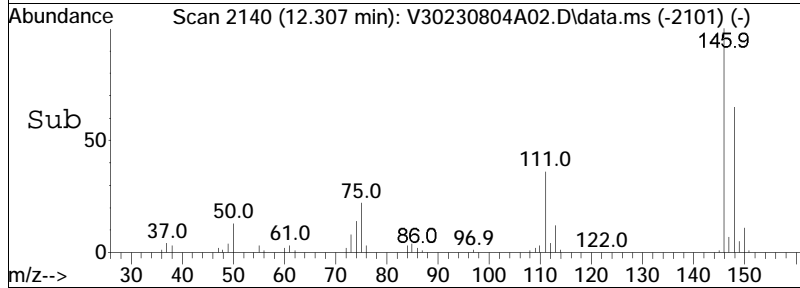
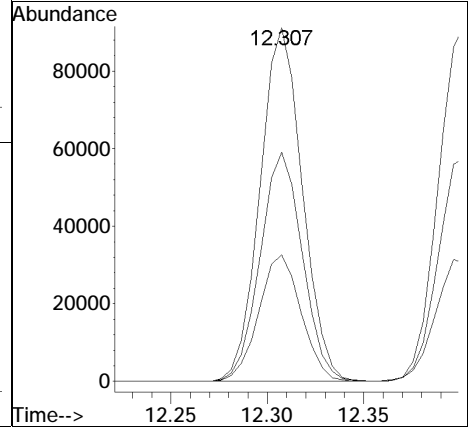
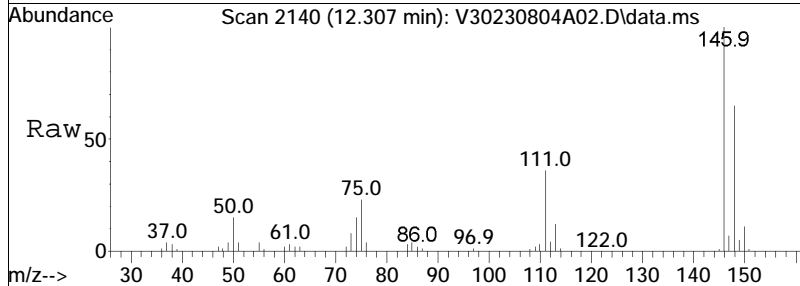
Tgt Ion	Resp	Lower	Upper
119	100		
134	27.9	15.9	33.1
91	21.6	16.6	34.4

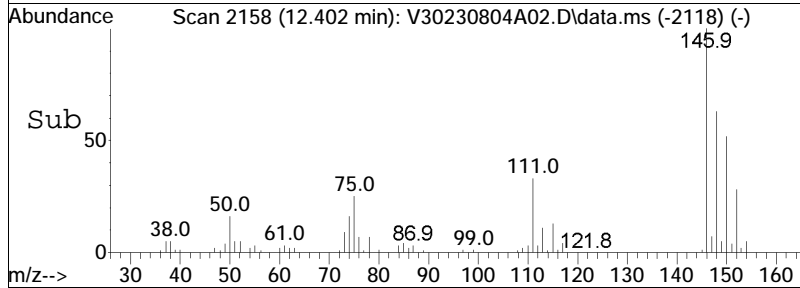
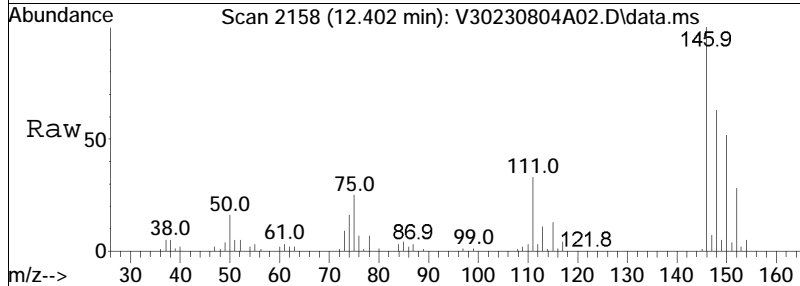
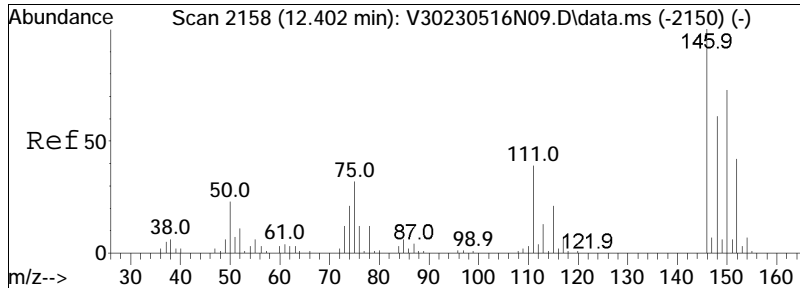




#105
 1,3-Dichlorobenzene
 Concen: 9.38 ug/L
 RT: 12.307 min Scan# 2140
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

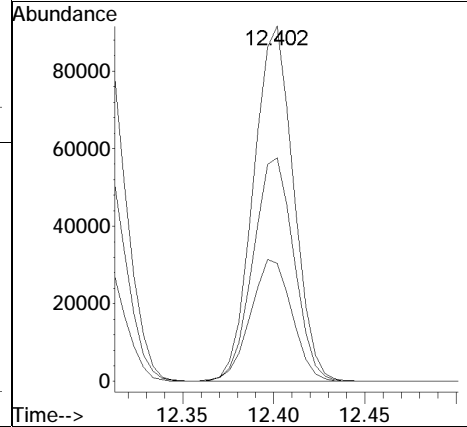
Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.9	28.0	58.1
148	64.7	40.8	84.6

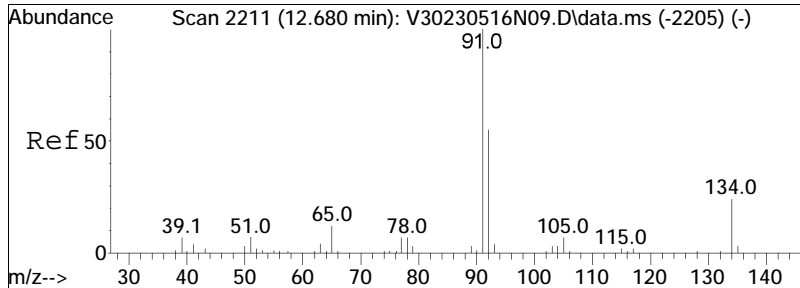




#106
 1,4-Dichlorobenzene
 Concen: 9.44 ug/L
 RT: 12.402 min Scan# 2158
 Delta R.T. 0.010 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

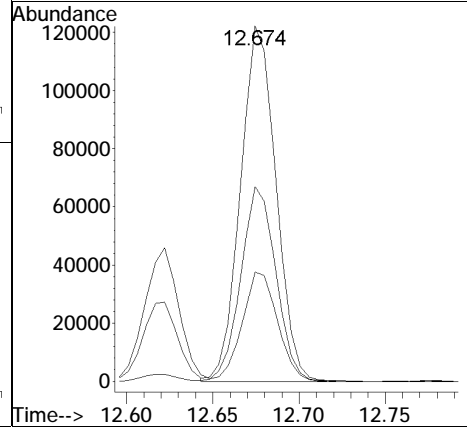
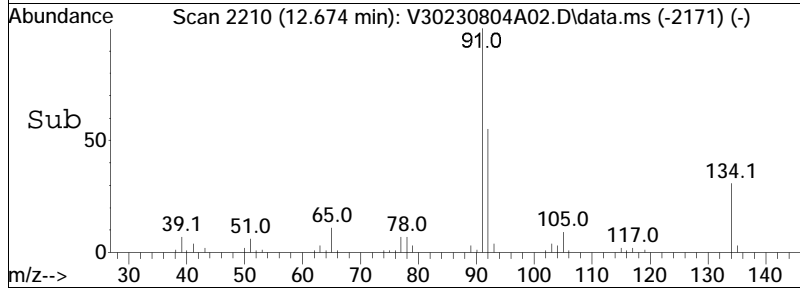
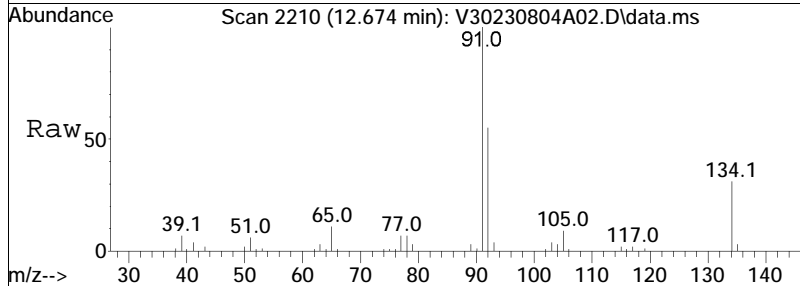
Tgt Ion	Resp	Lower	Upper
146	100		
111	35.6	33.7	50.5
148	64.1	50.8	76.2

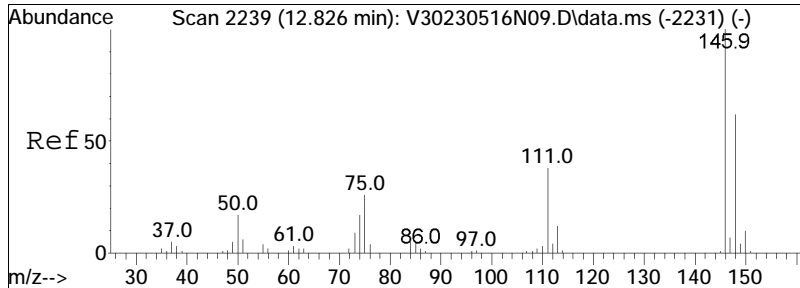




#108
 n-Butylbenzene
 Concen: 8.79 ug/L
 RT: 12.674 min Scan# 2210
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

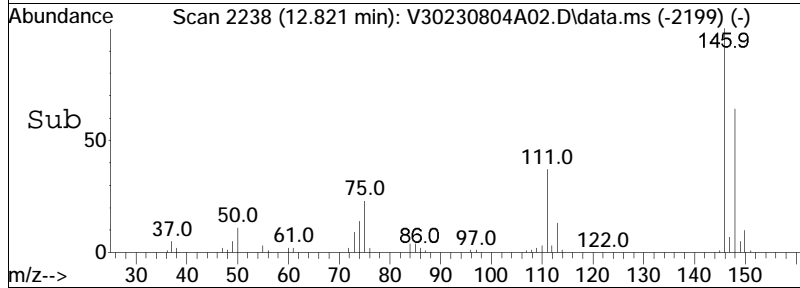
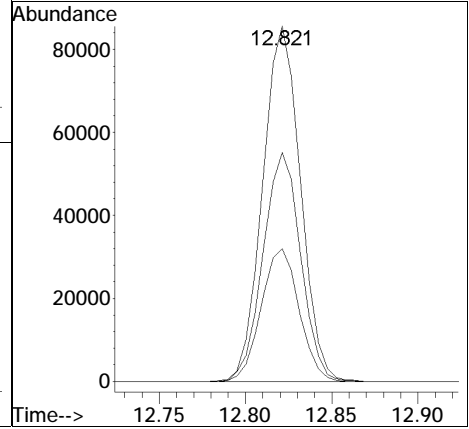
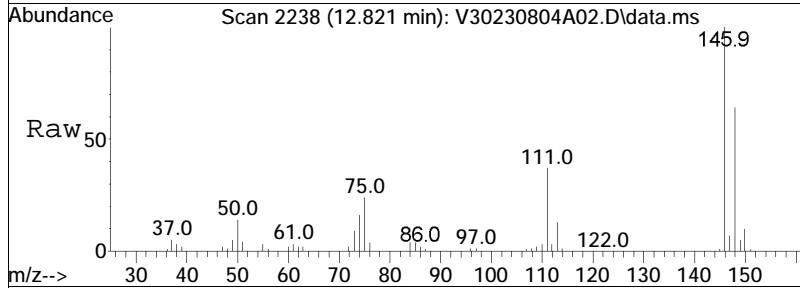
Tgt Ion:	91	Resp:	174842
Ion Ratio	Lower	Upper	
91	100		
92	54.2	44.2	66.4
134	30.6	17.8	26.6#

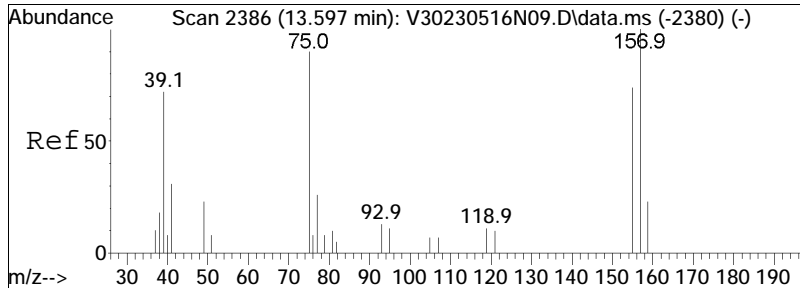




#109
 1,2-Dichlorobenzene
 Concen: 9.24 ug/L
 RT: 12.821 min Scan# 2238
 Delta R.T. 0.005 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

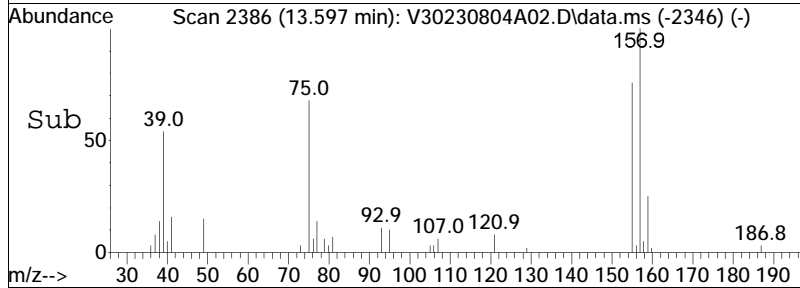
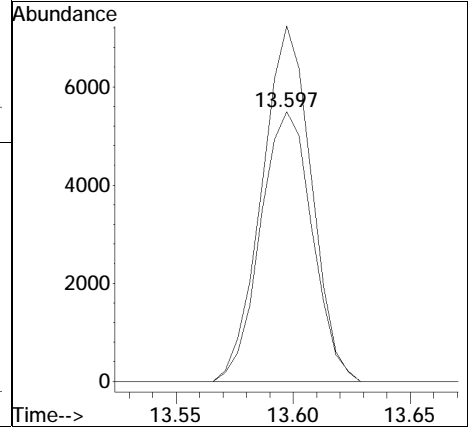
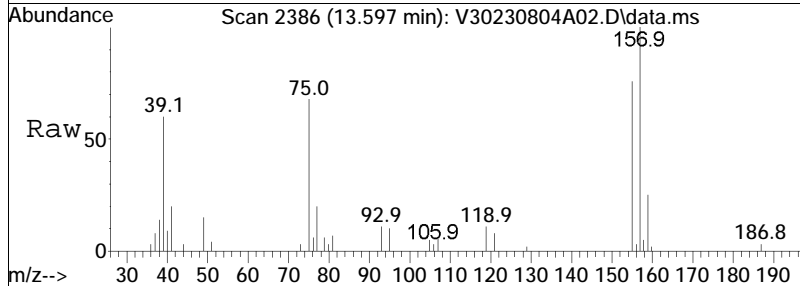
Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.4	29.5	61.3
148	64.1	41.3	85.9

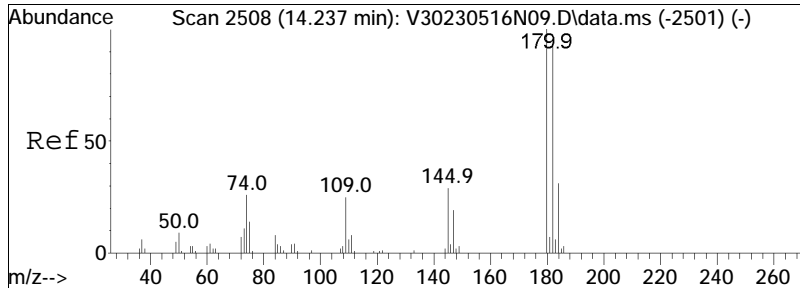




#111
 1,2-Dibromo-3-chloropropane
 Concen: 8.57 ug/L
 RT: 13.597 min Scan# 2386
 Delta R.T. 0.010 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

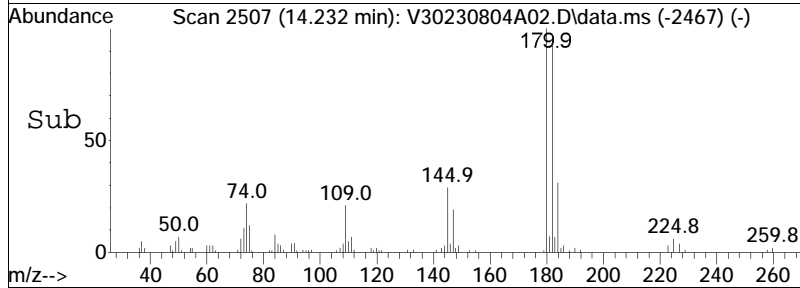
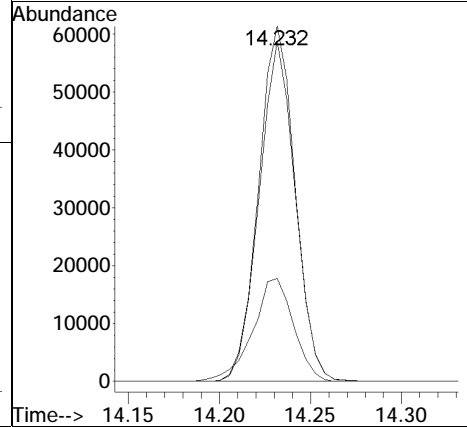
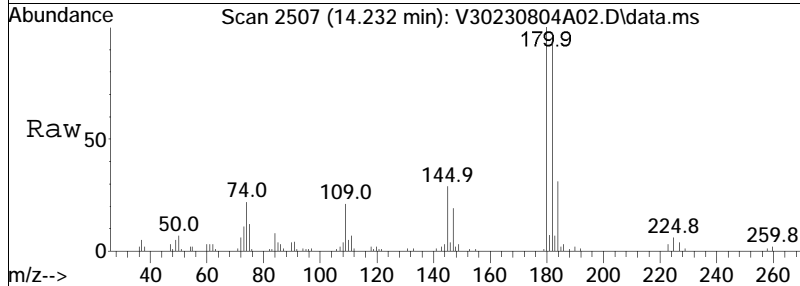
Tgt Ion	Resp	Lower	Upper
155	100		
157	126.2	105.1	157.7

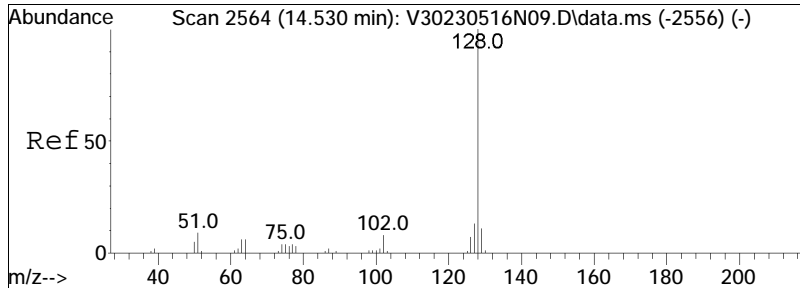




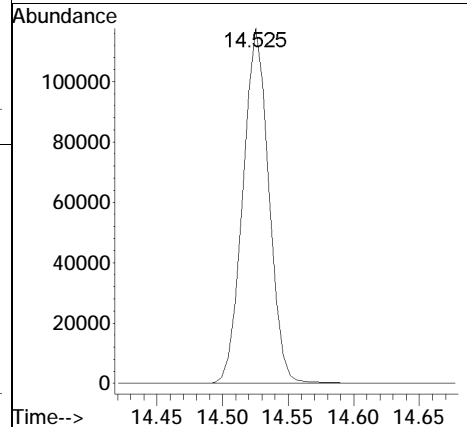
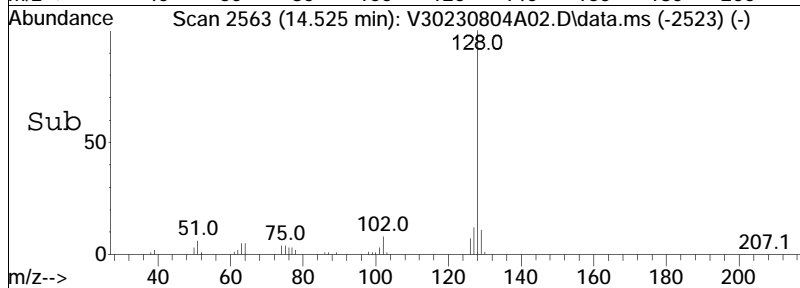
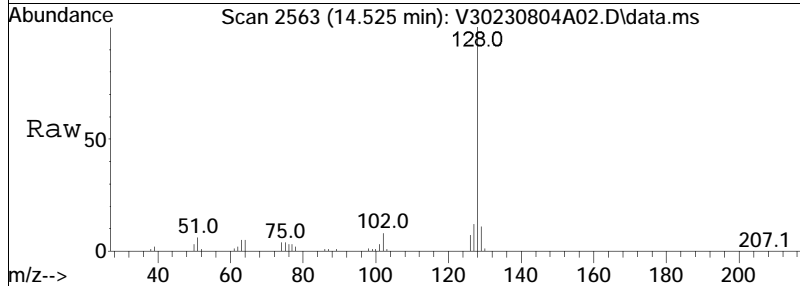
#114
 1,2,4-Trichlorobenzene
 Concen: 9.85 ug/L
 RT: 14.232 min Scan# 2507
 Delta R.T. 0.010 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.7	113.5
145	32.3	27.4	41.2





#115
 Naphthalene
 Concen: 8.18 ug/L
 RT: 14.525 min Scan# 2563
 Delta R.T. 0.010 min
 Lab File: V30230804A02.D
 Acq: 04 Aug 2023 07:13 am
 Tgt Ion:128 Resp: 161917



Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A27.D
 Acq On : 04 Aug 2023 04:20 pm
 Operator : VOA130:PID
 Sample : WG1811888-6,31,10,10,,A1
 Misc : WG1811888,ICAL20171
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 05 14:52:03 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
 Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.142	96	245186	10.000	ug/L	# 0.00
Standard Area 1 = 302647			Recovery =	81.01%		
63) Chlorobenzene-d5	9.702	117	247059	10.000	ug/L	# 0.00
Standard Area 1 = 290495			Recovery =	85.05%		
84) 1,4-Dichlorobenzene-d4	12.386	152	162092	10.000	ug/L	0.00
Standard Area 1 = 184997			Recovery =	87.62%		
System Monitoring Compounds						
39) Dibromofluoromethane	5.318	113	86719	11.586	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	115.86%		
47) 1,2-Dichloroethane-d4	5.853	65	82371	10.952	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	109.52%		
64) Toluene-d8	7.851	98	282603	9.584	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.84%		
88) 4-Bromofluorobenzene	11.180	95	111842	8.644	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	86.44%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.685	85	50030	9.890	ug/L	96
3) Chloromethane	1.879	50	54746	11.849	ug/L	98
4) Vinyl chloride	1.958	62	71840	14.051	ug/L	98
5) Bromomethane	2.277	94	29377	9.442	ug/L	97
6) Chloroethane	2.398	64	41169	12.756	ug/L	99
7) Trichlorofluoromethane	2.545	101	90830	12.518	ug/L	97
10) 1,1-Dichloroethene	3.043	96	43365	11.848	ug/L	# 71
11) Carbon disulfide	3.069	76	115564	11.743	ug/L	98
12) Freon-113	3.085	101	46502	11.916	ug/L	# 73
15) Methylene chloride	3.604	84	47574	11.365	ug/L	86
17) Acetone	3.641	43	11894	12.527	ug/L	96
18) trans-1,2-Dichloroethene	3.761	96	46874	11.447	ug/L	79
19) Methyl acetate	3.767	43	24268	10.620	ug/L	# 92
21) Methyl tert-butyl ether	3.866	73	91970	9.670	ug/L	96
25) 1,1-Dichloroethane	4.354	63	87639	11.874	ug/L	# 98
30) cis-1,2-Dichloroethene	4.878	96	57733	12.297	ug/L	# 79
34) Cyclohexane	5.083	56	72860	11.098	ug/L	85
35) Chloroform	5.140	83	90984	12.219	ug/L	95
37) Carbon tetrachloride	5.282	117	75769	12.651	ug/L	98
40) 1,1,1-Trichloroethane	5.350	97	78851	11.926	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A27.D
 Acq On : 04 Aug 2023 04:20 pm
 Operator : VOA130:PID
 Sample : WG1811888-6,31,10,10,,A1
 Misc : WG1811888,ICAL20171
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 05 14:52:03 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
 Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone	5.434	43	13056	10.082	ug/L	# 85
45) Benzene	5.722	78	165510	11.331	ug/L	98
48) 1,2-Dichloroethane	5.921	62	58970	10.772	ug/L	# 97
51) Methyl cyclohexane	6.320	83	63221	10.300	ug/L	86
52) Trichloroethene	6.320	95	59632	13.253	ug/L	# 84
55) 1,2-Dichloropropane	6.865	63	42411	11.063	ug/L	96
58) Bromodichloromethane	6.939	83	61587	11.196	ug/L	# 97
62) cis-1,3-Dichloropropene	7.636	75	56777	9.812	ug/L	89
65) Toluene	7.909	92	111418	9.743	ug/L	97
66) 4-Methyl-2-pentanone	8.344	58	9081	7.962	ug/L	# 91
67) Tetrachloroethene	8.359	166	54468	10.398	ug/L	# 90
69) trans-1,3-Dichloropropene	8.386	75	50560	8.540	ug/L	# 87
72) 1,1,2-Trichloroethane	8.574	83	28354	9.223	ug/L	93
73) Chlorodibromomethane	8.784	129	45411	9.256	ug/L	99
75) 1,2-Dibromoethane	9.067	107	35380	9.346	ug/L	98
77) 2-Hexanone	9.356	43	16397	7.304	ug/L	98
78) Chlorobenzene	9.723	112	129078	9.648	ug/L	88
79) Ethylbenzene	9.770	91	205691	9.310	ug/L	92
81) p/m Xylene	9.959	106	175089	19.186	ug/L	84
82) o Xylene	10.488	106	167965	18.644	ug/L	85
83) Styrene	10.551	104	276971	18.945	ug/L	86
85) Bromoform	10.572	173	28377	8.680	ug/L	98
87) Isopropylbenzene	10.871	105	207519	8.453	ug/L	94
90) n-Propylbenzene	11.343	91	242385	8.600	ug/L	# 89
92) 1,1,2,2-Tetrachloroethane	11.416	83	40727	9.585	ug/L	# 98
95) 1,3,5-Trimethylbenzene	11.563	105	177842	8.760	ug/L	93
99) tert-Butylbenzene	11.904	119	158472	8.629	ug/L	87
102) 1,2,4-Trimethylbenzene	11.982	105	169442	8.504	ug/L	91
103) sec-Butylbenzene	12.093	105	221042	8.628	ug/L	88
104) p-Isopropyltoluene	12.250	119	191940	8.522	ug/L	93
105) 1,3-Dichlorobenzene	12.308	146	120502	9.149	ug/L	94
106) 1,4-Dichlorobenzene	12.402	146	122172	9.258	ug/L	96
108) n-Butylbenzene	12.675	91	151306	8.567	ug/L	# 93
109) 1,2-Dichlorobenzene	12.821	146	113949	9.092	ug/L	95
111) 1,2-Dibromo-3-chloropr...	13.597	155	7749	8.867	ug/L	95
114) 1,2,4-Trichlorobenzene	14.232	180	73397	9.496	ug/L	98
115) Naphthalene	14.525	128	146831	8.348	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
Data File : V30230804A27.D
Acq On : 04 Aug 2023 04:20 pm
Operator : VOA130:PID
Sample : WG1811888-6,31,10,10,,A1
Misc : WG1811888,ICAL20171
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 05 14:52:03 2023
Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 14 09:22:26 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

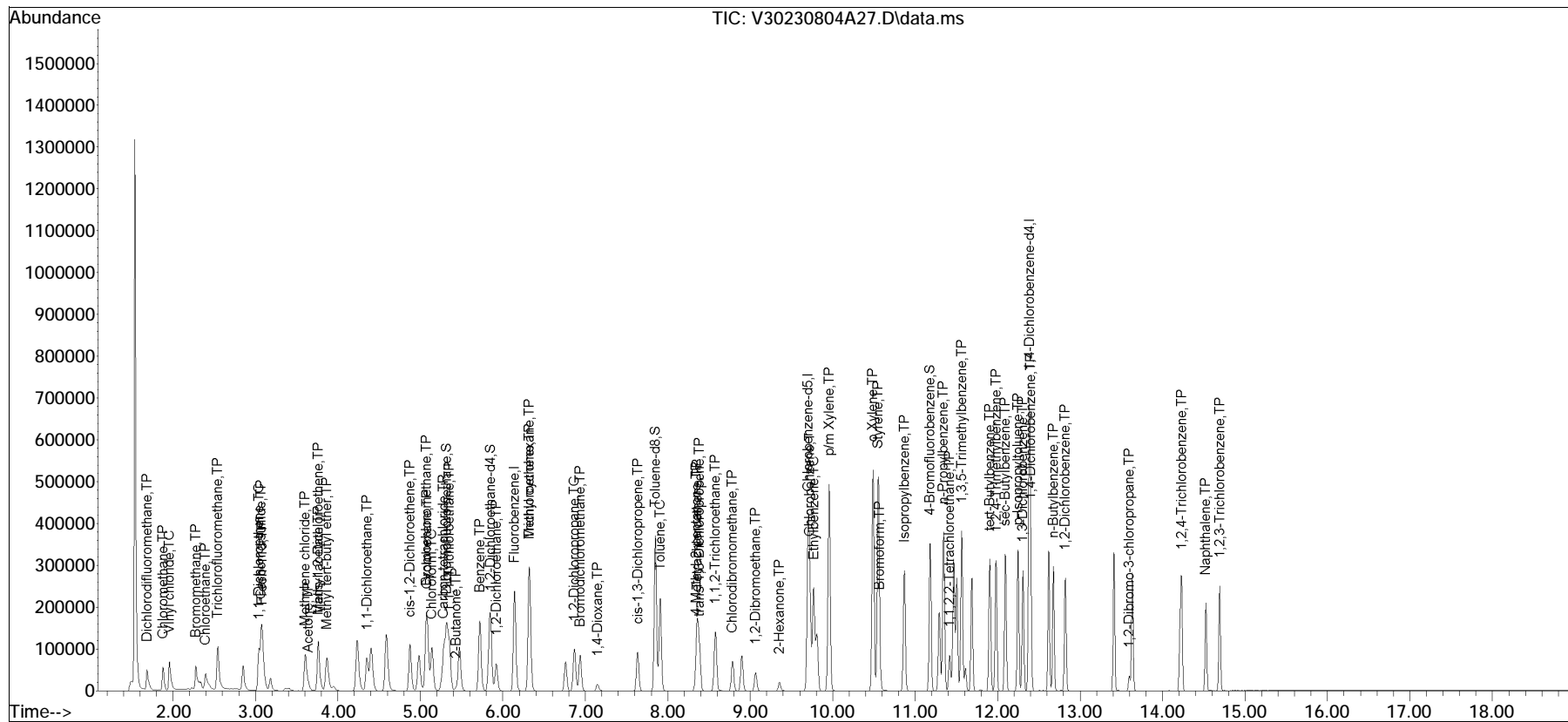
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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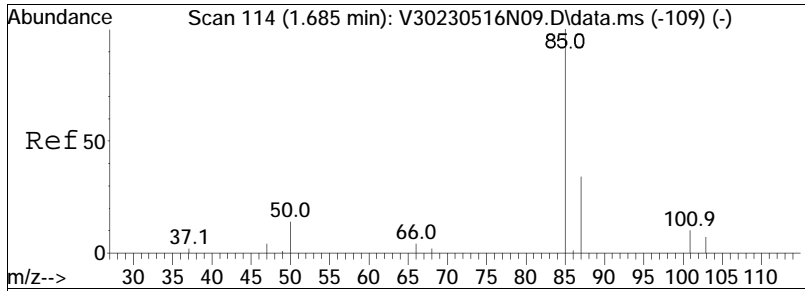
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A27.D
 Acq On : 04 Aug 2023 04:20 pm
 Operator : VOA130:PID
 Sample : WG1811888-6,31,10,10,,A1
 Misc : WG1811888,ICAL20171
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 05 14:52:03 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

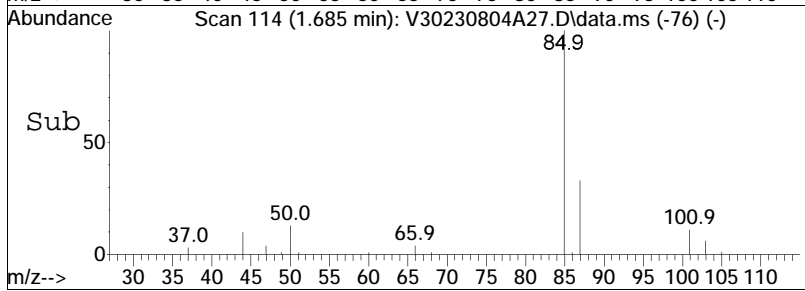
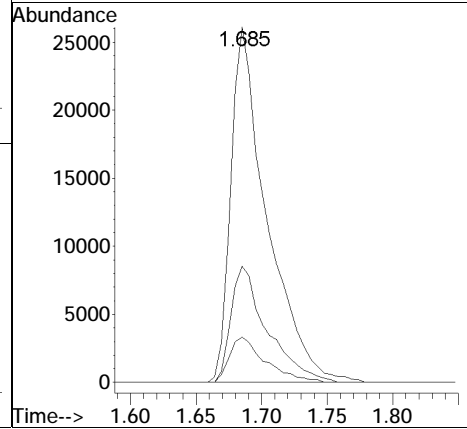
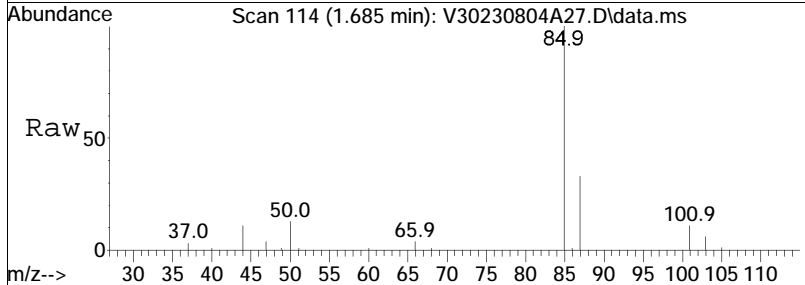
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0804A01.D•

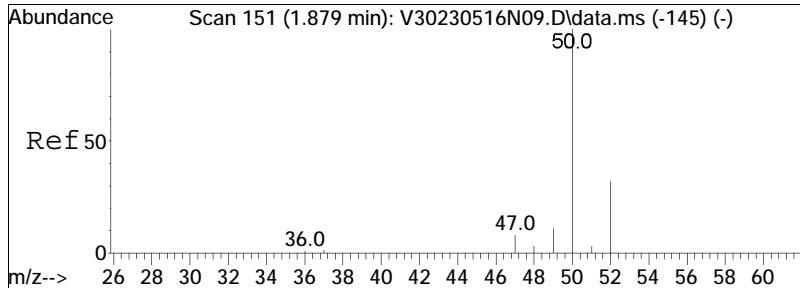




#2
 Dichlorodifluoromethane
 Concen: 9.89 ug/L
 RT: 1.685 min Scan# 114
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

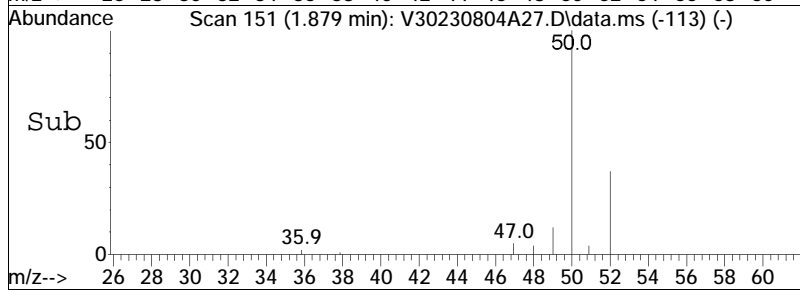
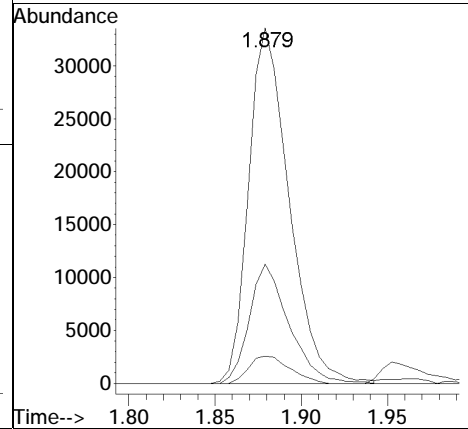
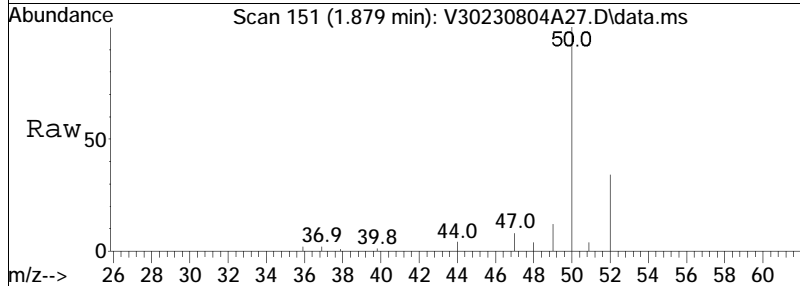
Tgt Ion	Resp	Lower	Upper
85	50030		
85	100		
87	32.7	20.2	42.0
50	12.8	10.1	20.9

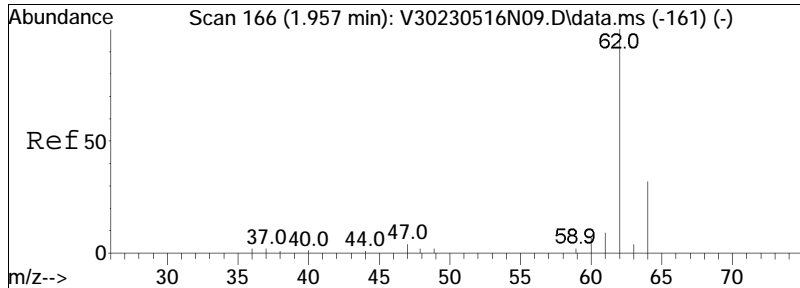




#3
 Chloromethane
 Concen: 11.85 ug/L
 RT: 1.879 min Scan# 151
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

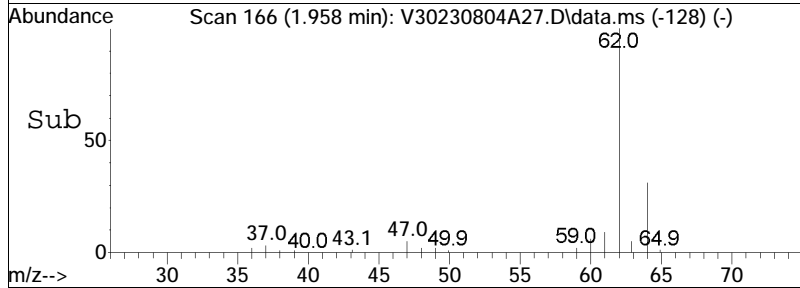
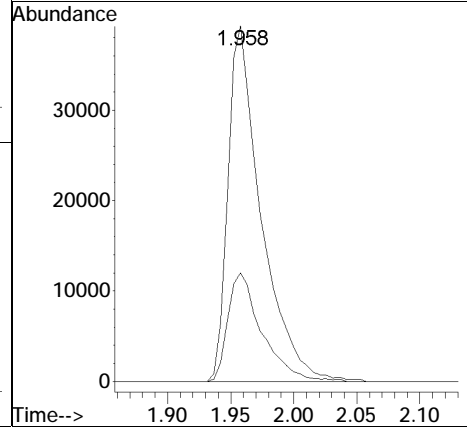
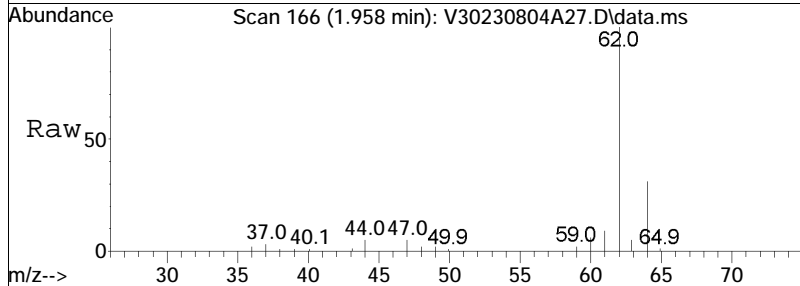
Tgt Ion	Resp	Lower	Upper
50	100		
52	32.8	25.1	37.7
47	7.9	6.5	9.7

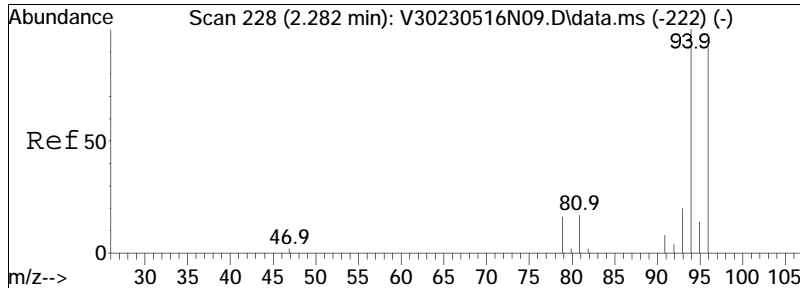




#4
 Vinyl chloride
 Concen: 14.05 ug/L
 RT: 1.958 min Scan# 166
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

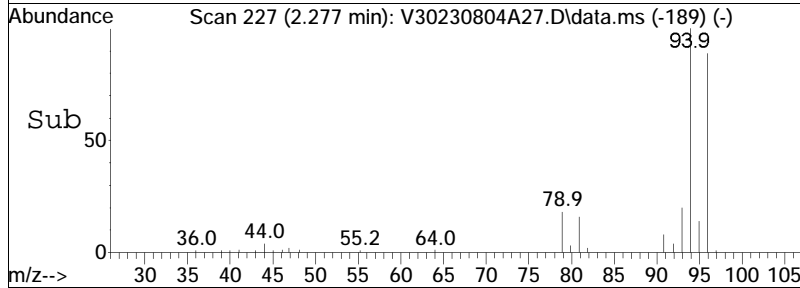
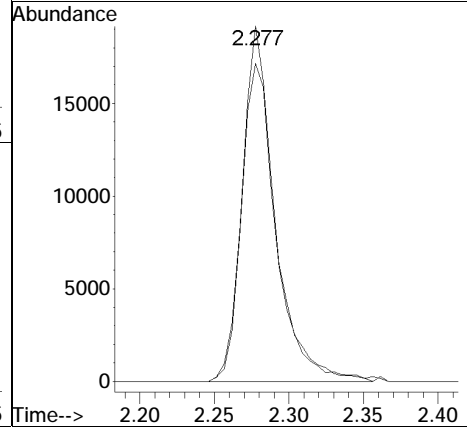
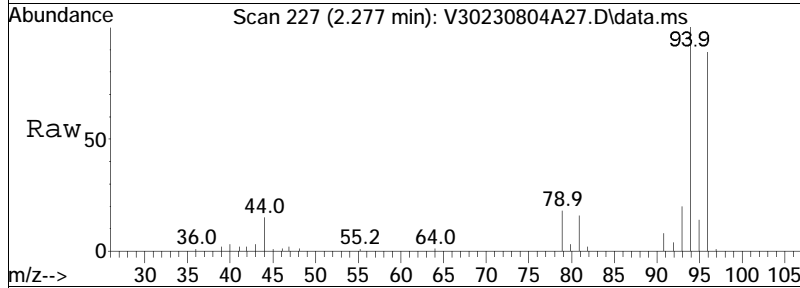
Tgt Ion	Resp	Lower	Upper
62	100		
64	31.2	25.7	38.5

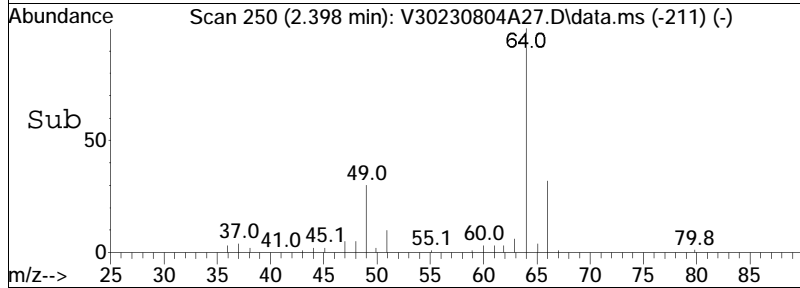
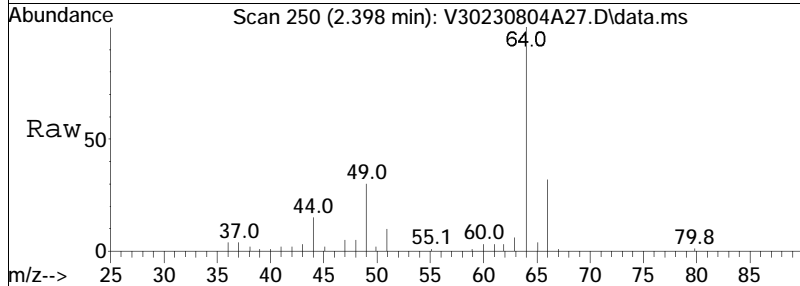
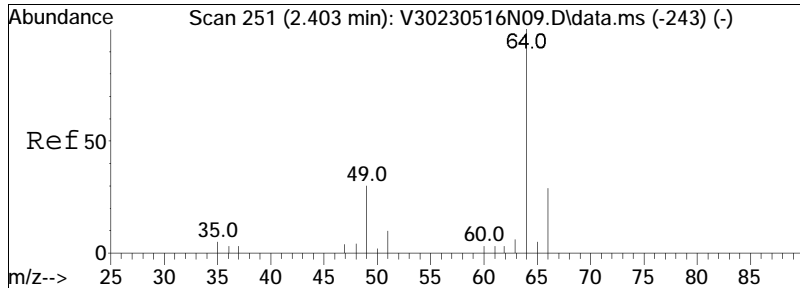




#5
 Bromomethane
 Concen: 9.44 ug/L
 RT: 2.277 min Scan# 227
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

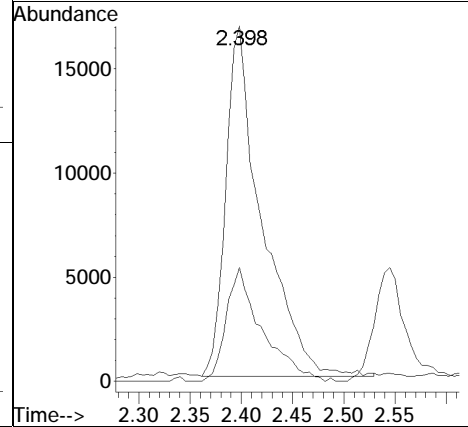
Tgt Ion: 94 Resp: 29377
 Ion Ratio Lower Upper
 94 100
 96 94.7 73.7 110.5

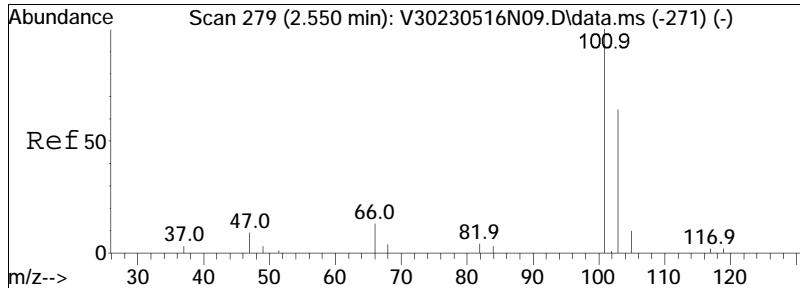




#6
 Chloroethane
 Concen: 12.76 ug/L
 RT: 2.398 min Scan# 250
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

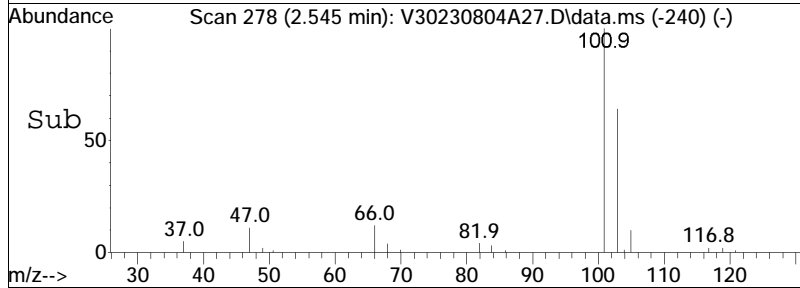
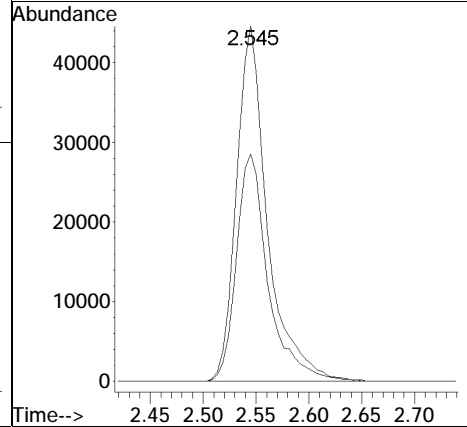
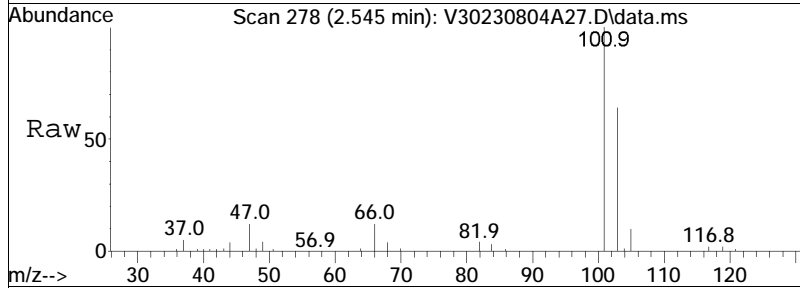
Tgt Ion: 64 Resp: 41169
 Ion Ratio Lower Upper
 64 100
 66 32.4 25.3 37.9

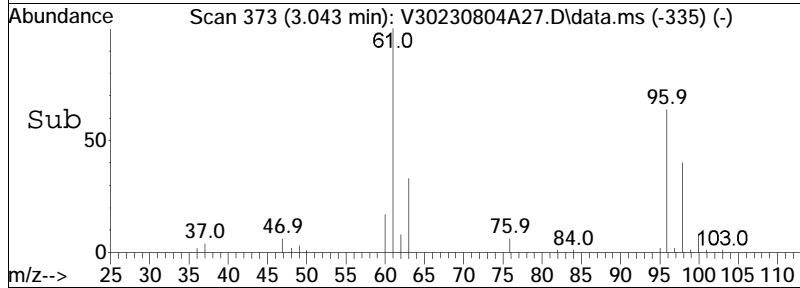
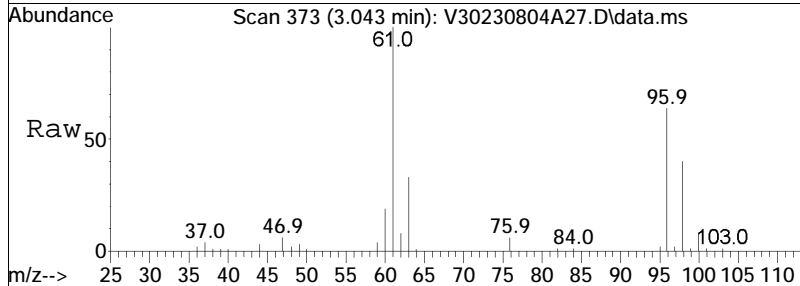
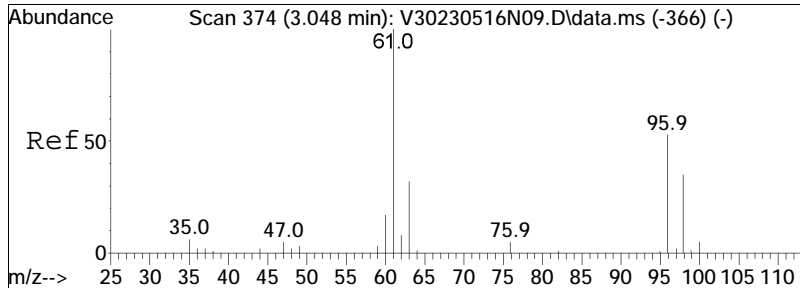




#7
 Trichlorofluoromethane
 Concen: 12.52 ug/L
 RT: 2.545 min Scan# 278
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

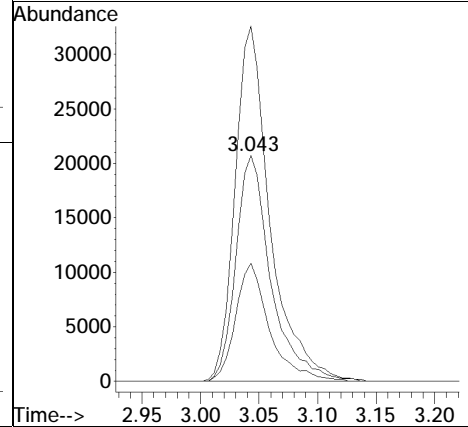
Tgt Ion	Resp	Lower	Upper
101	90830		
101	100		
103	65.7	51.0	76.4

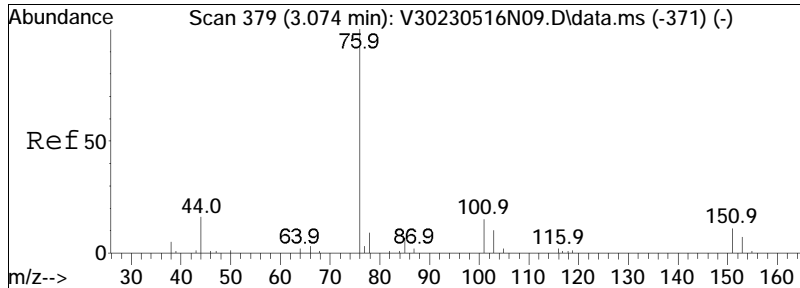




#10
 1,1-Dichloroethene
 Concen: 11.85 ug/L
 RT: 3.043 min Scan# 373
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

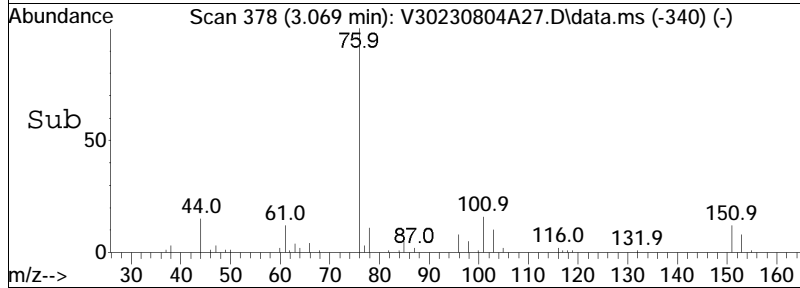
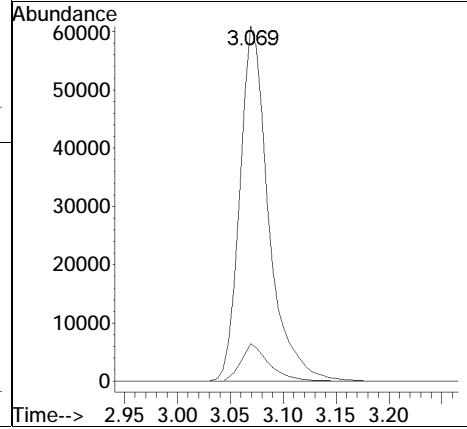
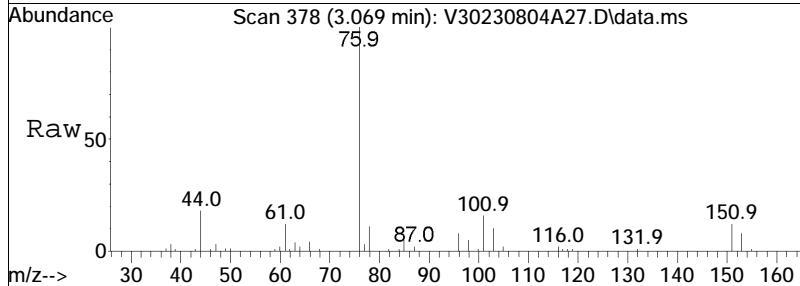
Tgt Ion:	96	Resp:	43365
Ion Ratio	Lower	Upper	
96	100		
61	156.7	165.5	248.3#
63	50.5	51.9	77.9#

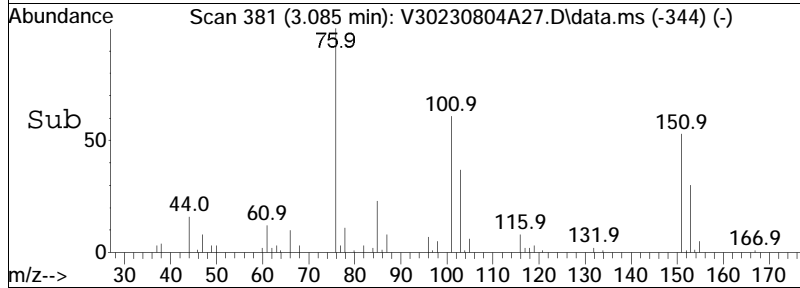
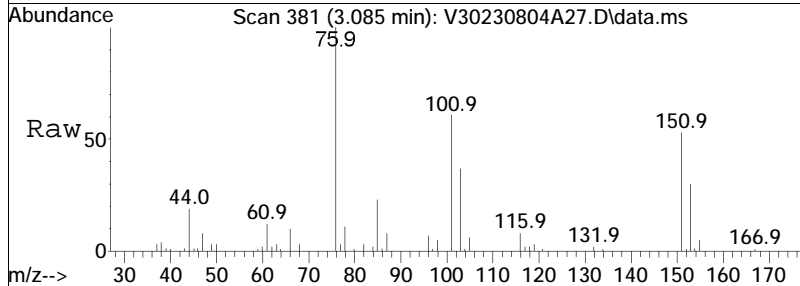
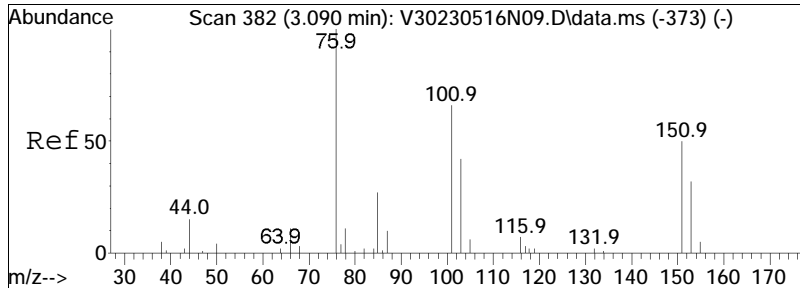




#11
 Carbon disulfide
 Concen: 11.74 ug/L
 RT: 3.069 min Scan# 378
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

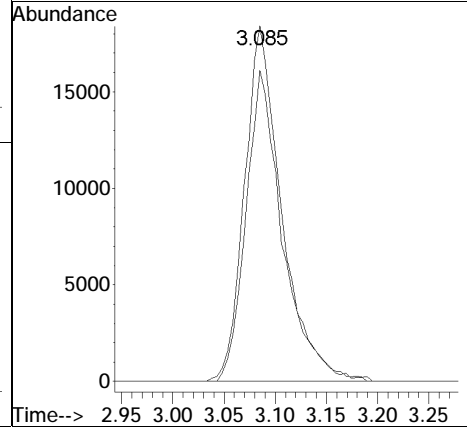
Tgt Ion: 76 Resp: 115564
 Ion Ratio Lower Upper
 76 100
 78 10.5 6.4 13.4

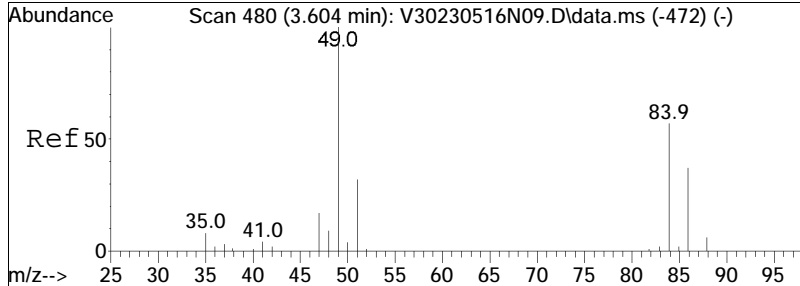




#12
 Freon-113
 Concen: 11.92 ug/L
 RT: 3.085 min Scan# 381
 Delta R.T. -0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

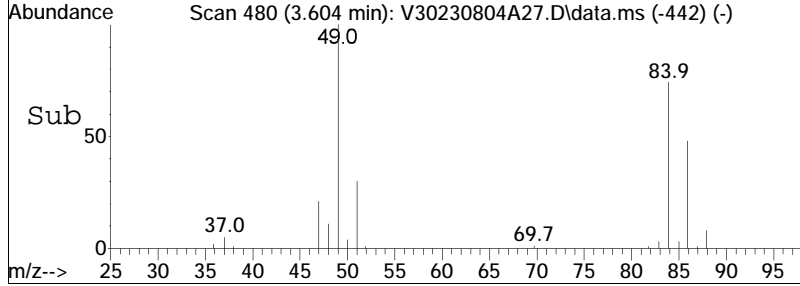
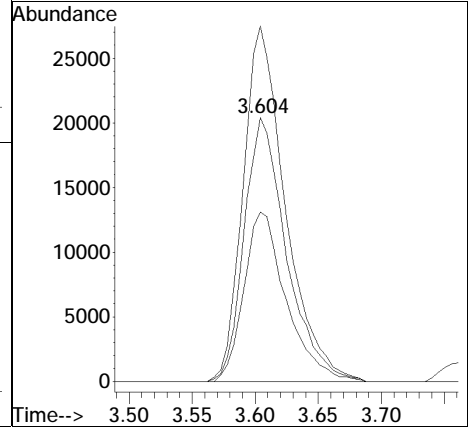
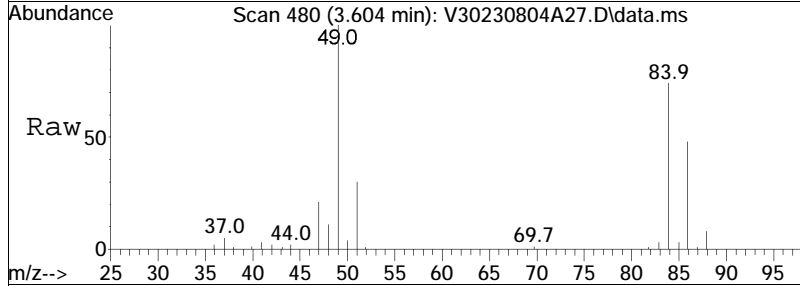
Tgt Ion:101 Resp: 46502
 Ion Ratio Lower Upper
 101 100
 151 86.2 51.9 77.9#

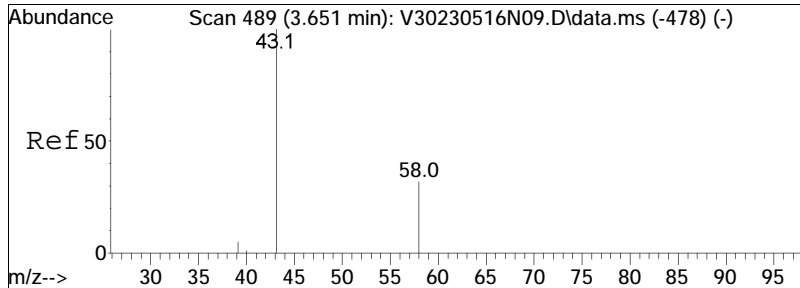




#15
 Methylene chloride
 Concen: 11.36 ug/L
 RT: 3.604 min Scan# 480
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

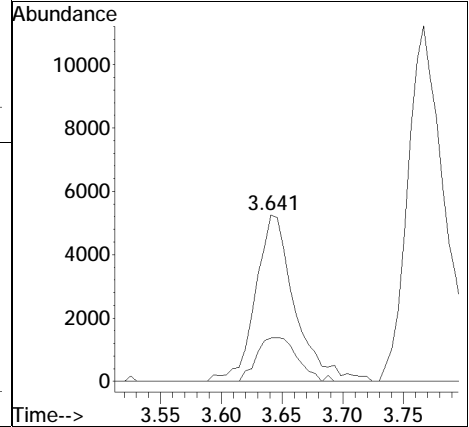
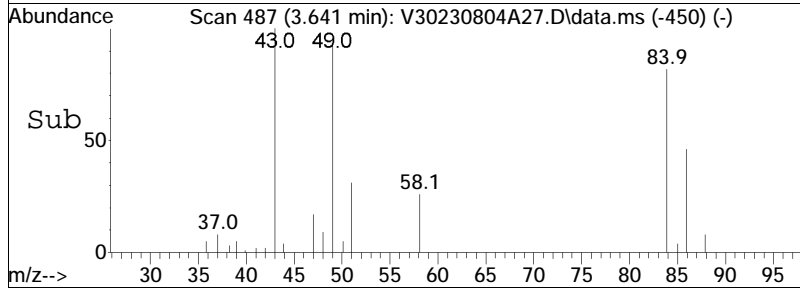
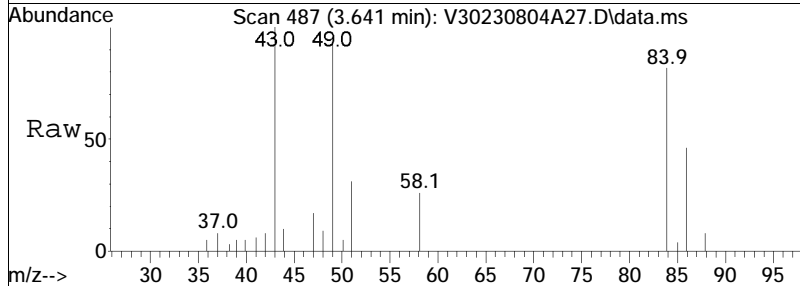
Tgt Ion:	84	Resp:	47574
Ion Ratio	Lower	Upper	
84	100		
86	64.3	41.7	86.5
49	134.8	103.9	215.9

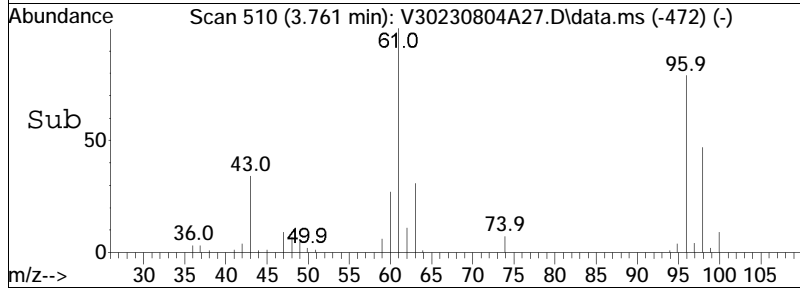
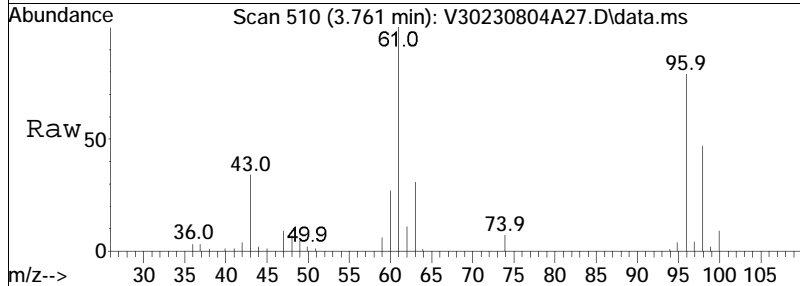
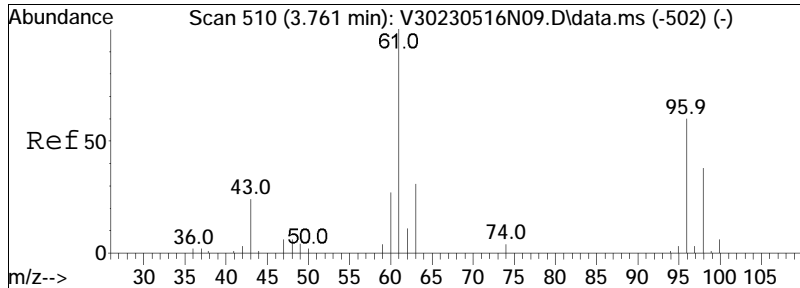




#17
 Acetone
 Concen: 12.53 ug/L
 RT: 3.641 min Scan# 487
 Delta R.T. -0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

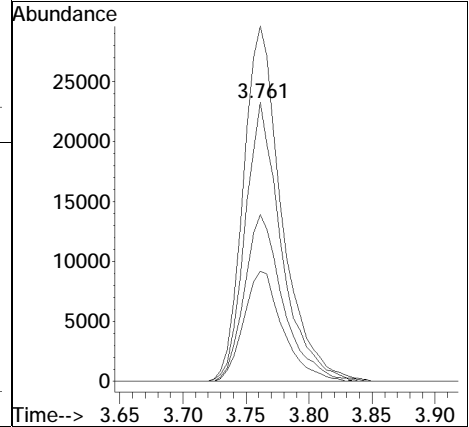
Tgt Ion: 43 Resp: 11894
 Ion Ratio Lower Upper
 43 100
 58 27.2 20.1 30.1

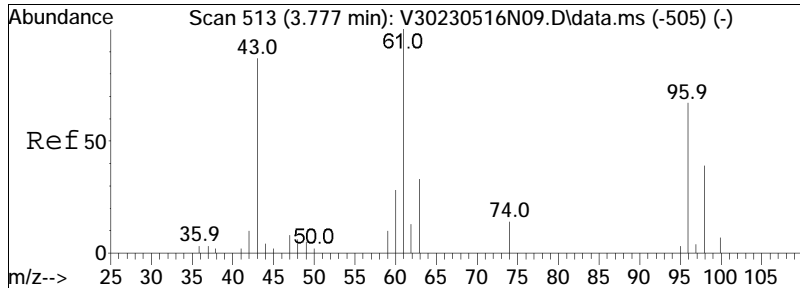




#18
 trans-1,2-Dichloroethene
 Concen: 11.45 ug/L
 RT: 3.761 min Scan# 510
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

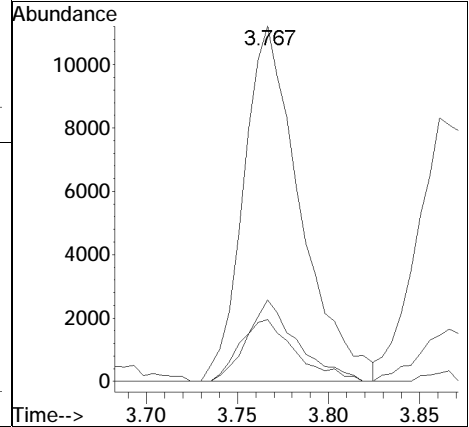
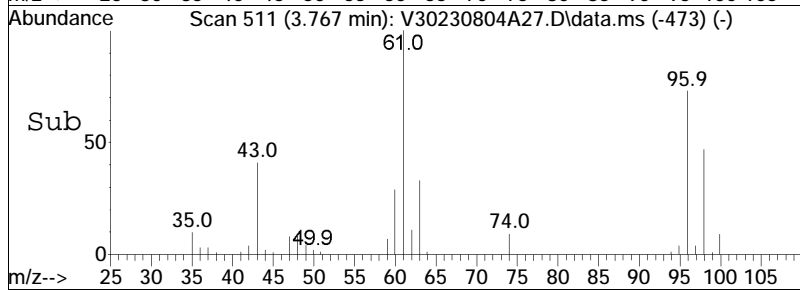
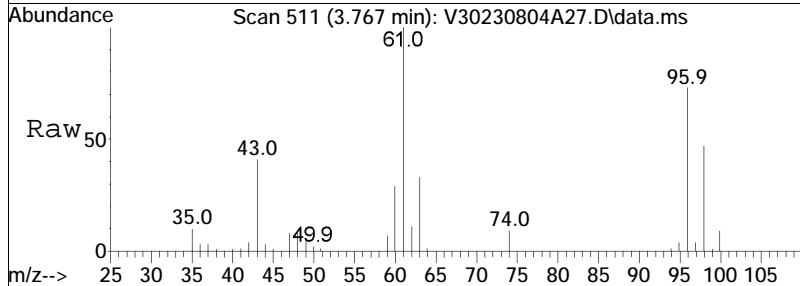
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
96	100		
61	134.4	113.6	236.0
98	63.2	40.8	84.8
63	42.5	36.5	75.7

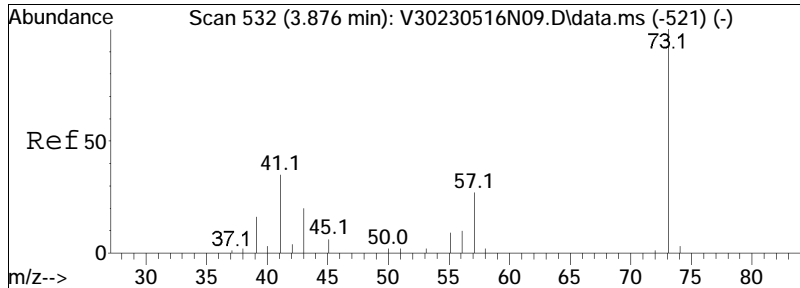




#19
 Methyl acetate
 Concen: 10.62 ug/L
 RT: 3.767 min Scan# 511
 Delta R.T. 0.001 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

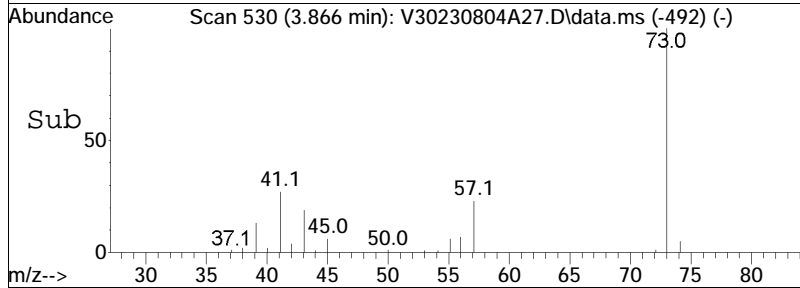
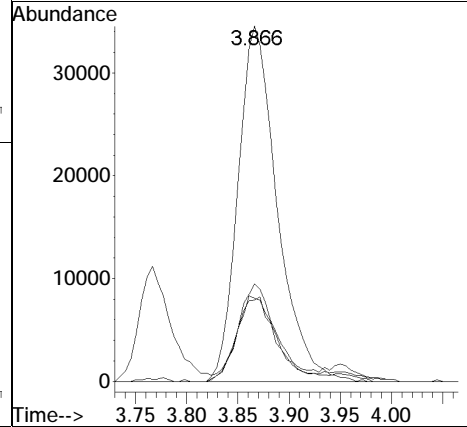
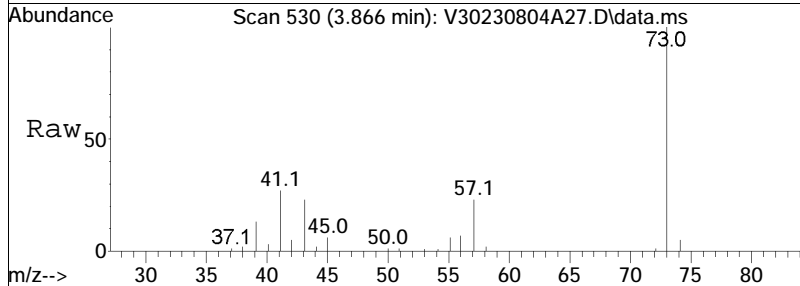
Tgt Ion:	Resp:	Lower	Upper
43	100		
74	20.2	14.6	22.0
59	17.1	9.3	13.9#

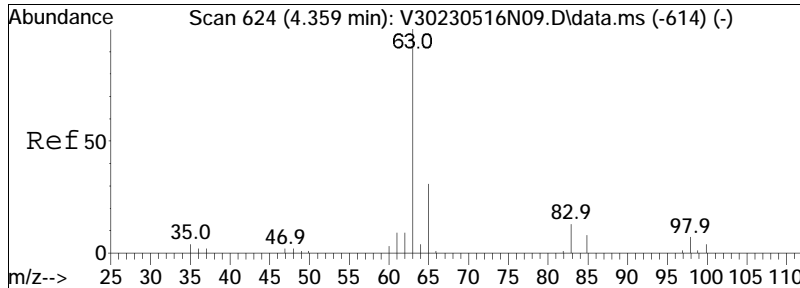




#21
 Methyl tert-butyl ether
 Concen: 9.67 ug/L
 RT: 3.866 min Scan# 530
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

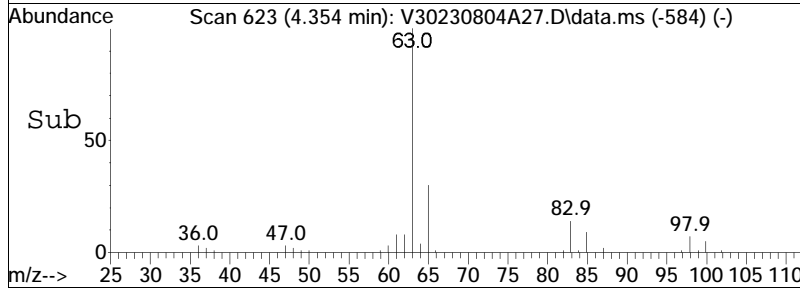
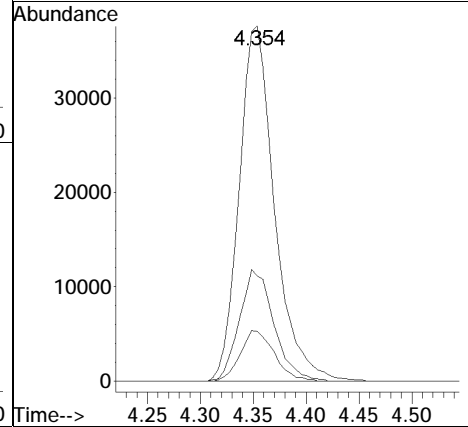
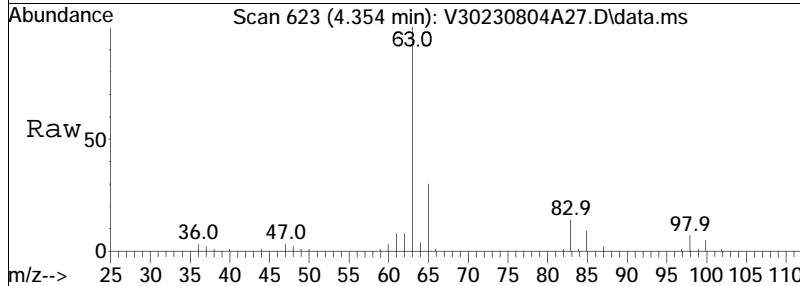
Tgt Ion	Resp	Lower	Upper
73	100		
57	24.7	15.5	32.1
43	21.2	16.6	34.6
41	27.3	17.2	35.6

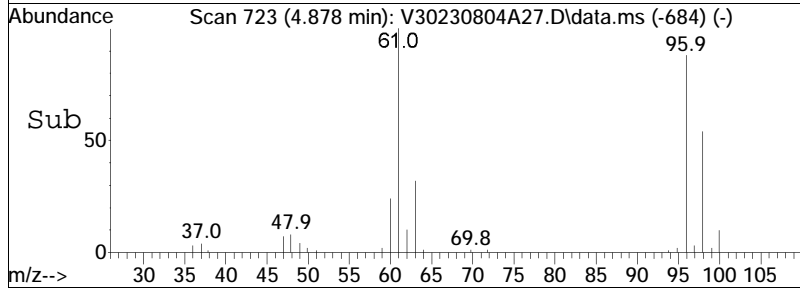
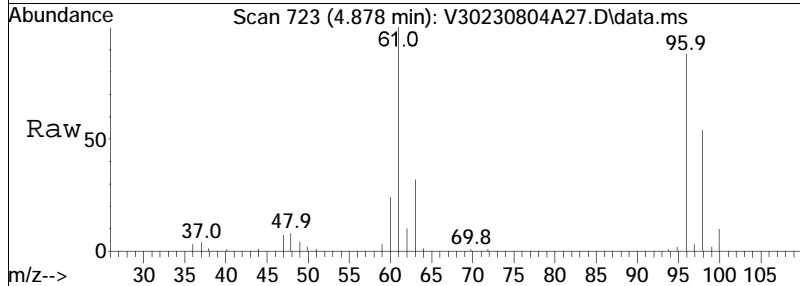
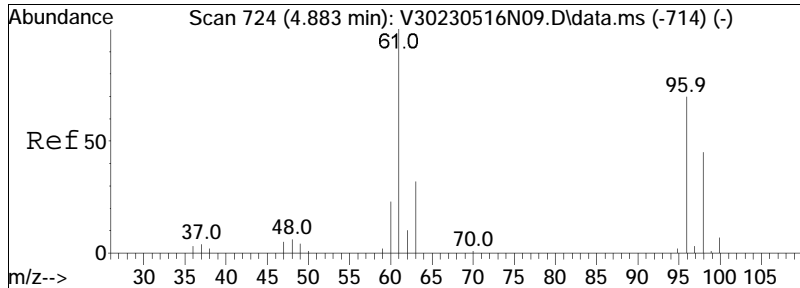




#25
 1,1-Dichloroethane
 Concen: 11.87 ug/L
 RT: 4.354 min Scan# 623
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

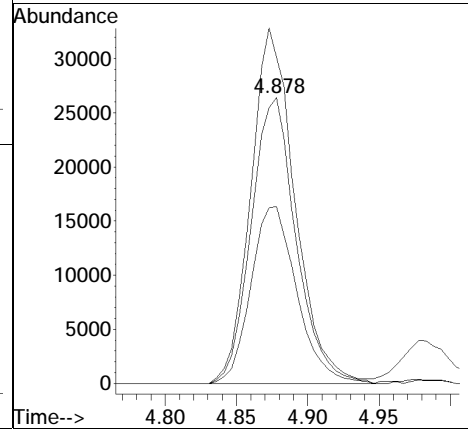
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.5	36.7
83	13.9	8.9	13.3#

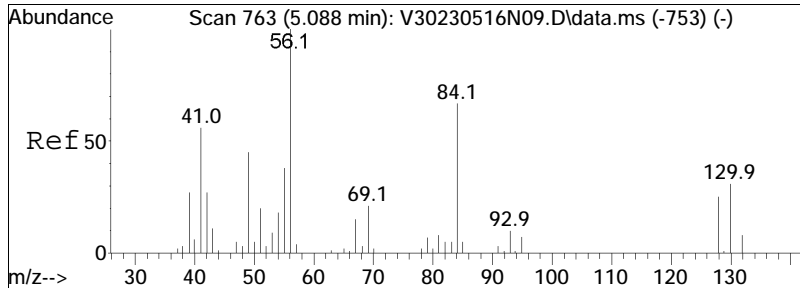




#30
 cis-1,2-Dichloroethene
 Concen: 12.30 ug/L
 RT: 4.878 min Scan# 723
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

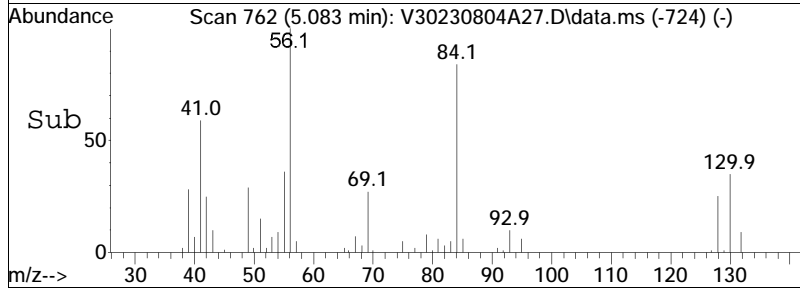
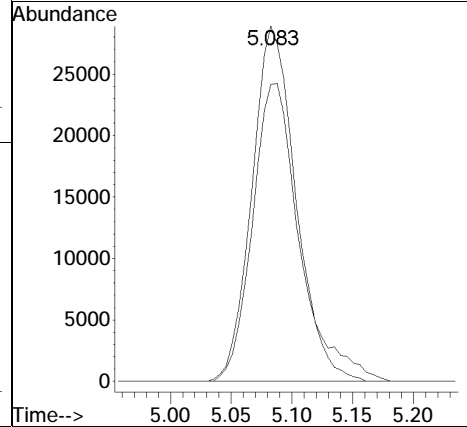
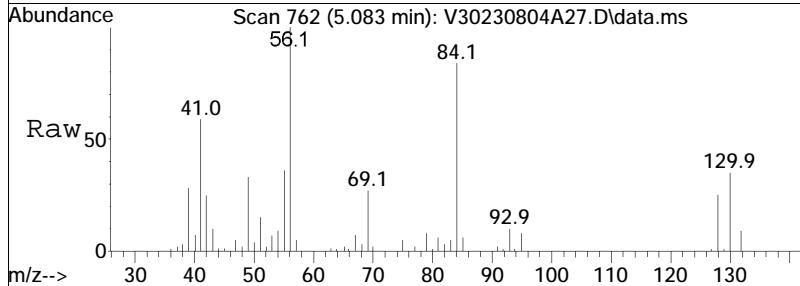
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
96	100		
61	122.5	129.3	193.9#
98	63.4	51.4	77.2

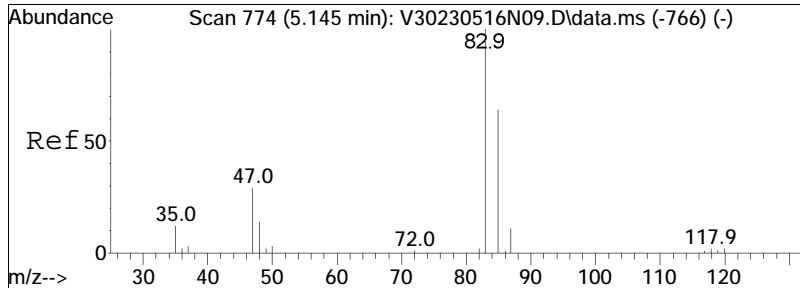




#34
 Cyclohexane
 Concen: 11.10 ug/L
 RT: 5.083 min Scan# 762
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

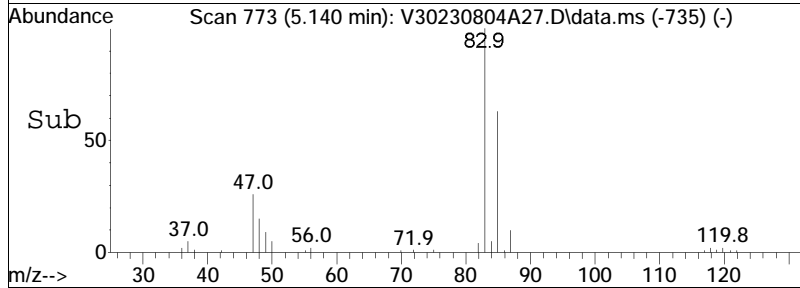
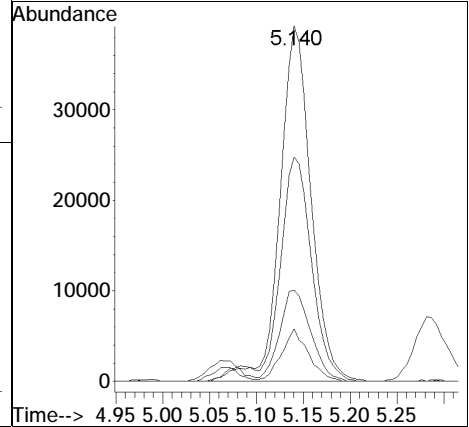
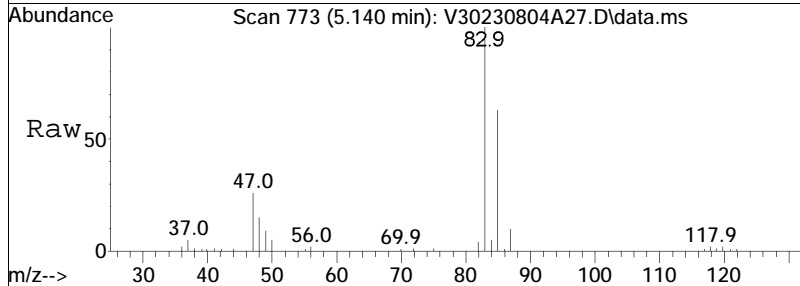
Tgt Ion:	Resp:	Lower	Upper
56	100		
84	90.0	49.9	103.5

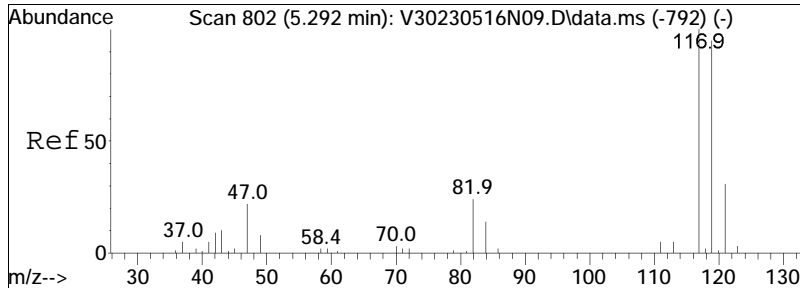




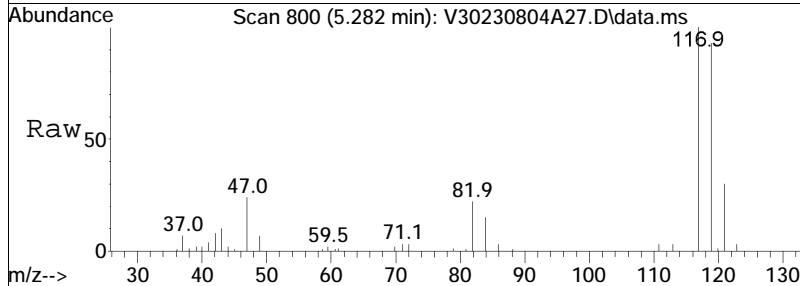
#35
 Chloroform
 Concen: 12.22 ug/L
 RT: 5.140 min Scan# 773
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

Tgt Ion	Resp	Lower	Upper
83	100		
85	62.0	41.4	86.0
47	25.8	20.5	42.5
48	12.9	9.9	20.5

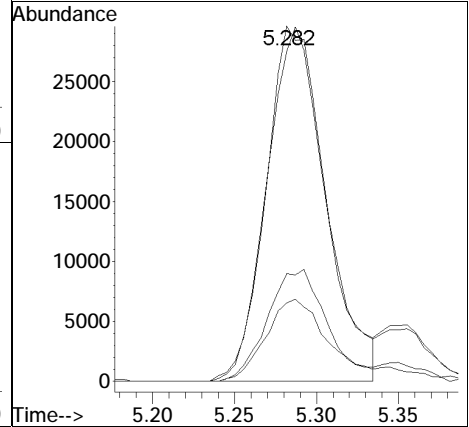
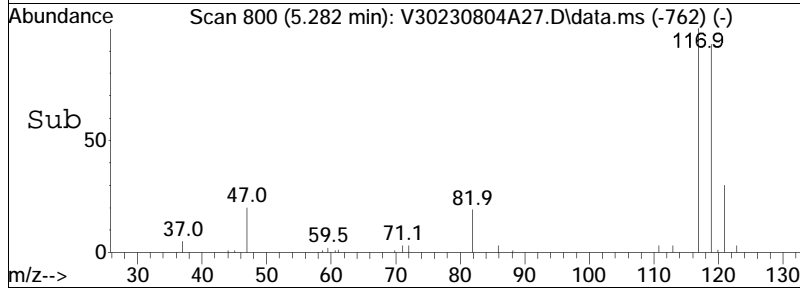


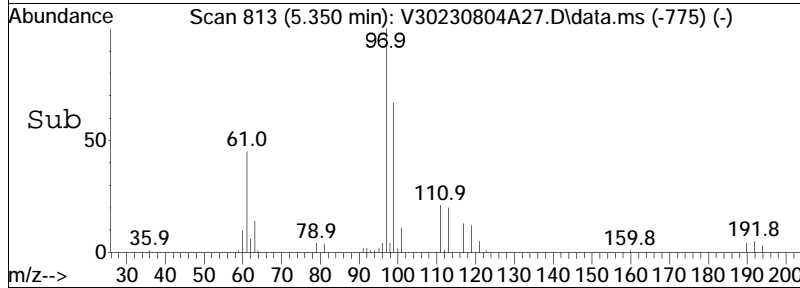
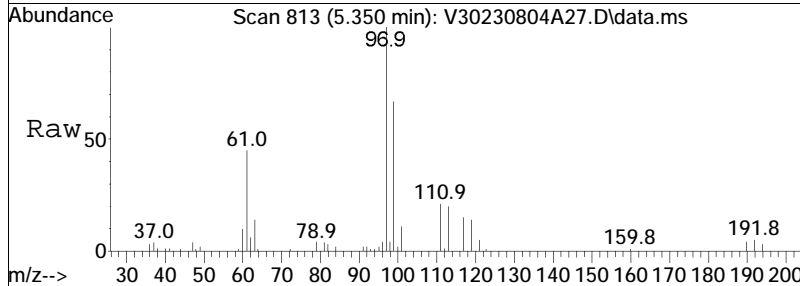
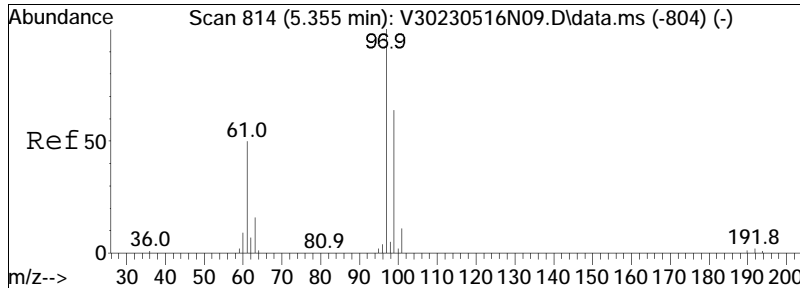


#37
 Carbon tetrachloride
 Concen: 12.65 ug/L
 RT: 5.282 min Scan# 800
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm



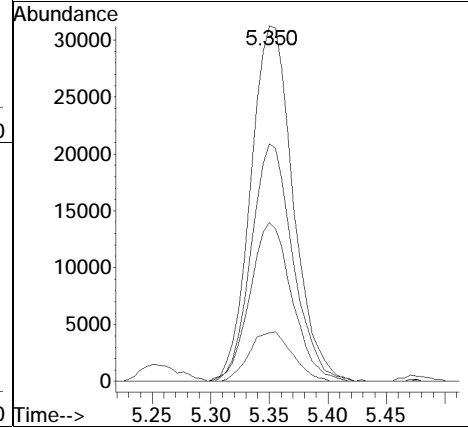
Tgt Ion	Resp	Lower	Upper
117	100		
119	96.8	62.0	128.8
121	31.4	19.6	40.6
82	26.5	18.8	39.0

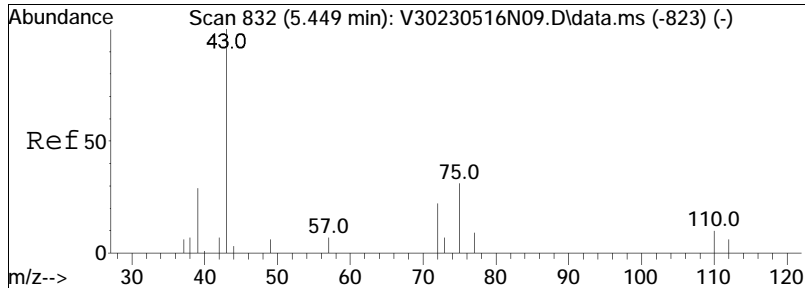




#40
 1,1,1-Trichloroethane
 Concen: 11.93 ug/L
 RT: 5.350 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

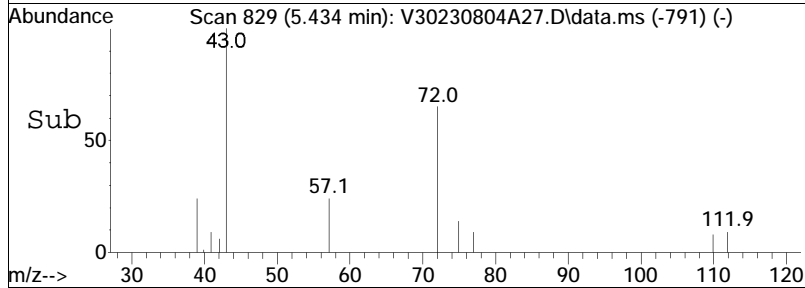
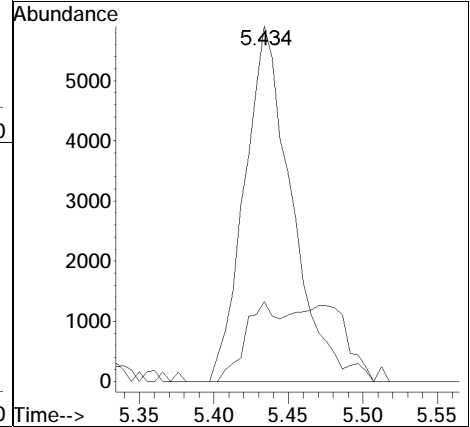
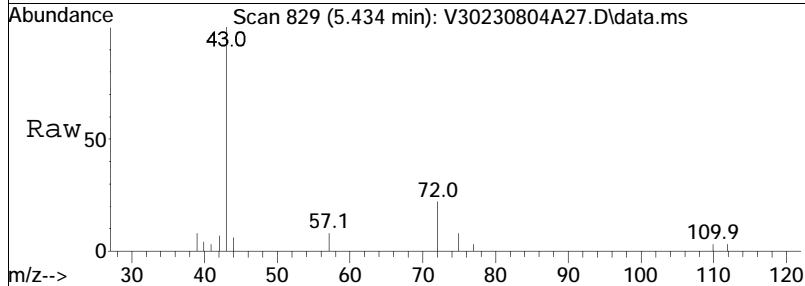
Tgt Ion	Resp	Lower	Upper
97	78851		
97	100		
99	65.7	40.6	84.4
61	44.5	35.0	72.8
63	14.2	11.1	23.0

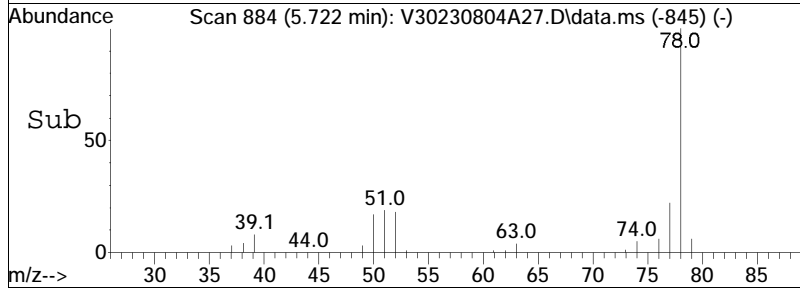
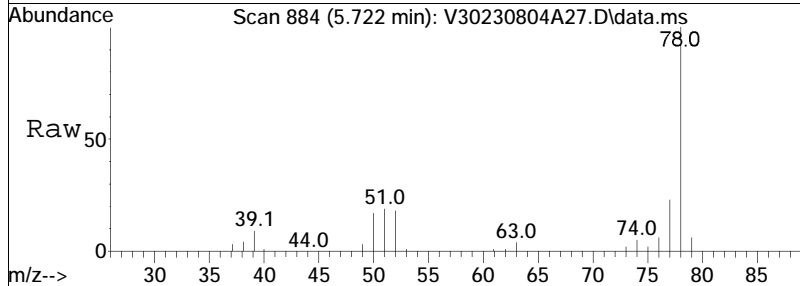
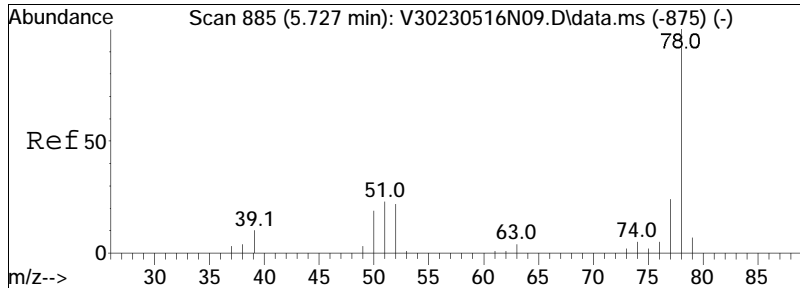




#42
 2-Butanone
 Concen: 10.08 ug/L
 RT: 5.434 min Scan# 829
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

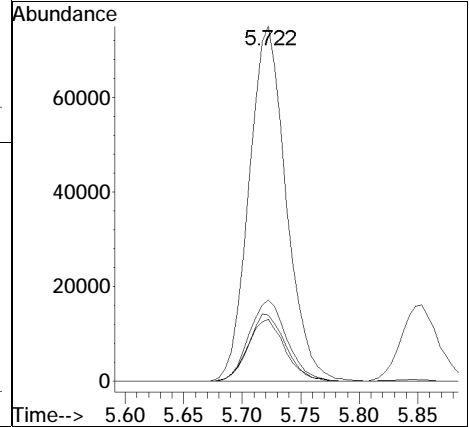
Tgt Ion: 43 Resp: 13056
 Ion Ratio Lower Upper
 43 100
 72 15.8 18.2 27.4#

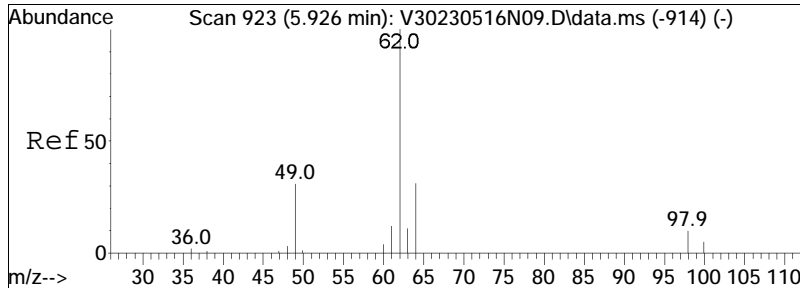




#45
 Benzene
 Concen: 11.33 ug/L
 RT: 5.722 min Scan# 884
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

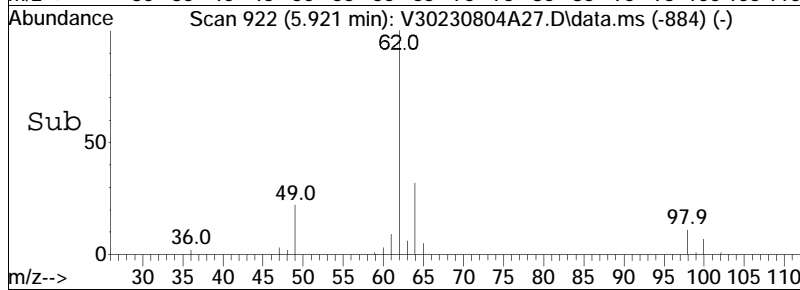
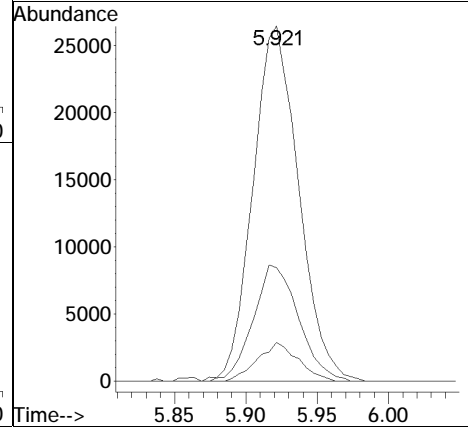
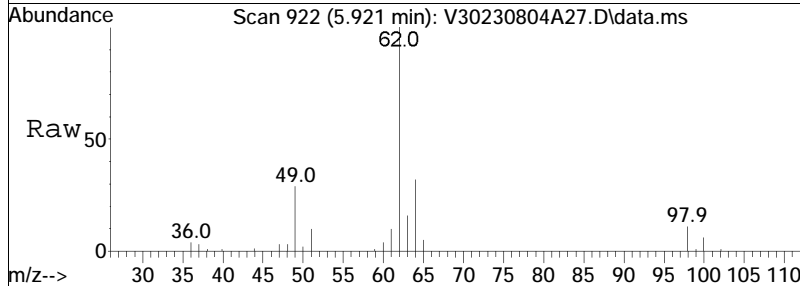
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
78	100		
77	23.4	15.6	32.4
51	19.1	12.9	26.7
52	17.5	12.4	25.7

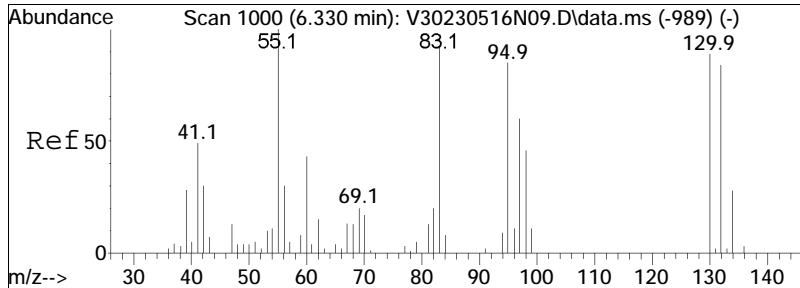




#48
 1,2-Dichloroethane
 Concen: 10.77 ug/L
 RT: 5.921 min Scan# 922
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

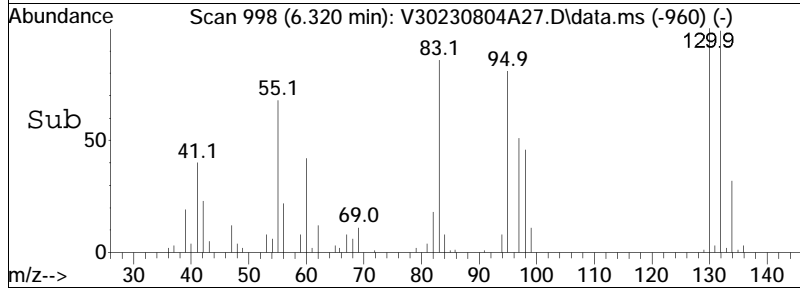
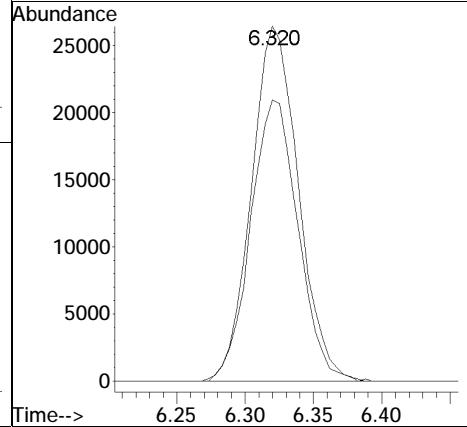
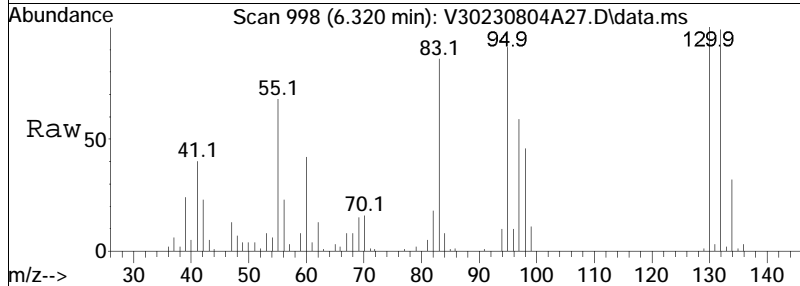
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
62	100		
64	32.8	25.5	38.3
98	9.9	5.5	8.3#

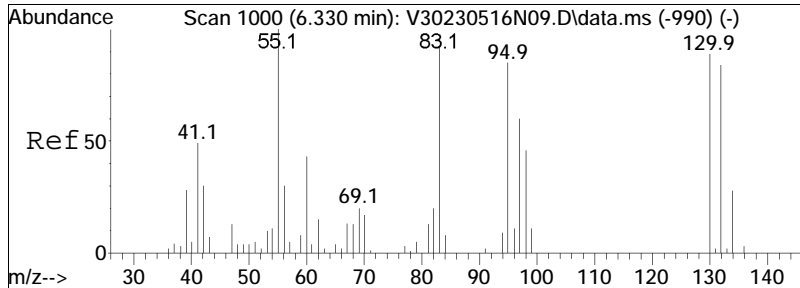




#51
 Methyl cyclohexane
 Concen: 10.30 ug/L
 RT: 6.320 min Scan# 998
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

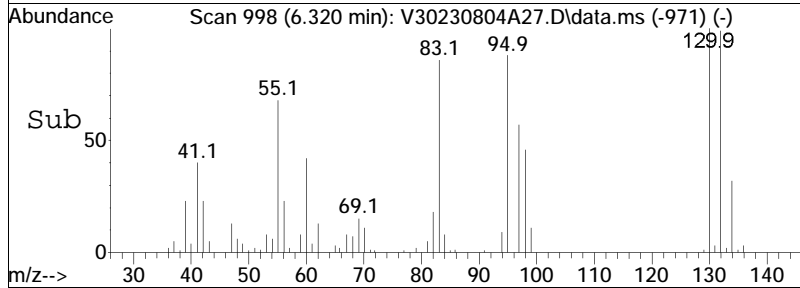
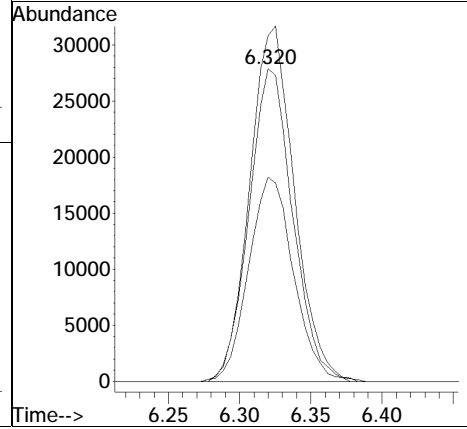
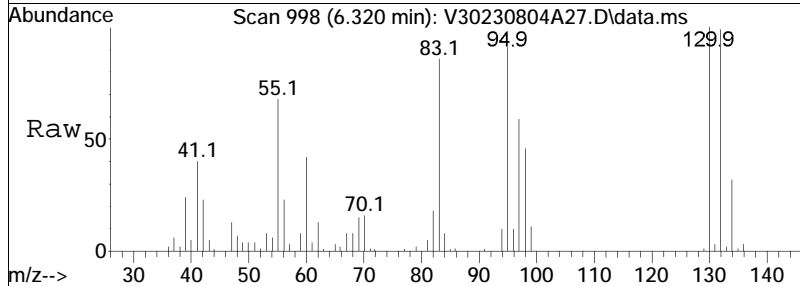
Tgt Ion	Resp	Lower	Upper
83	100		
55	80.1	74.6	112.0

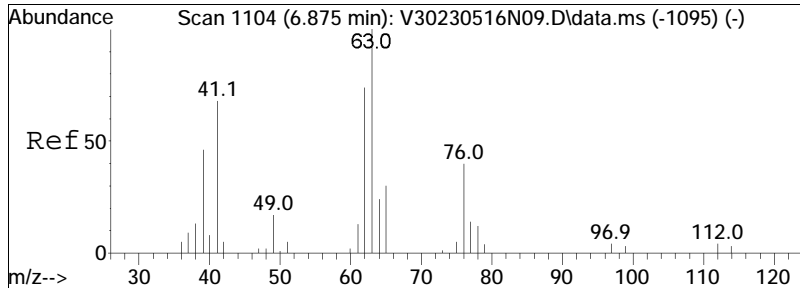




#52
 Trichloroethene
 Concen: 13.25 ug/L
 RT: 6.320 min Scan# 998
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

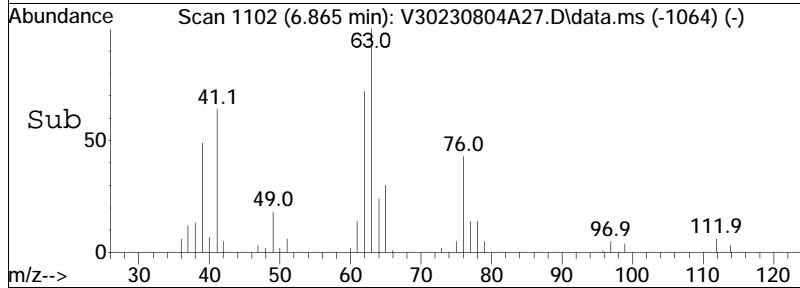
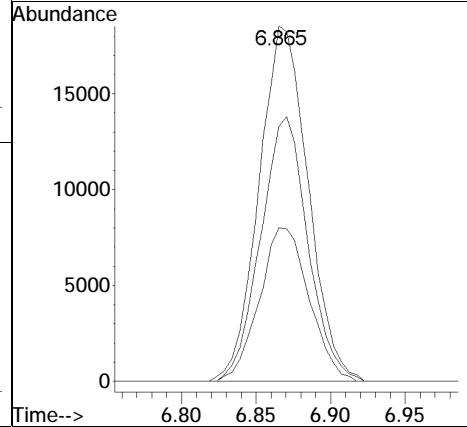
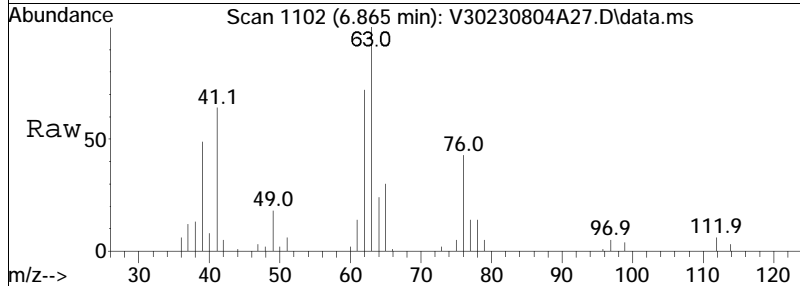
Tgt Ion	Resp	Lower	Upper
95	59632		
95	100		
97	66.8	53.8	80.6
130	115.5	71.4	107.0#

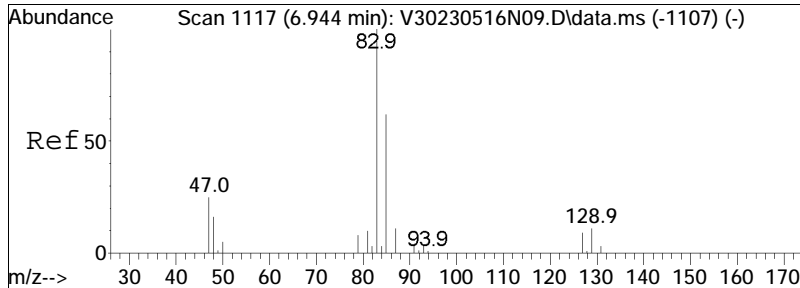




#55
 1,2-Dichloropropane
 Concen: 11.06 ug/L
 RT: 6.865 min Scan# 1102
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

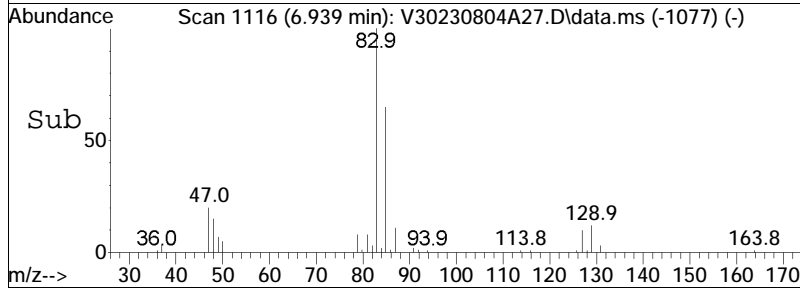
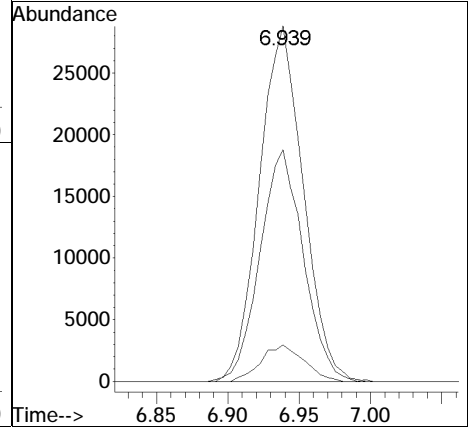
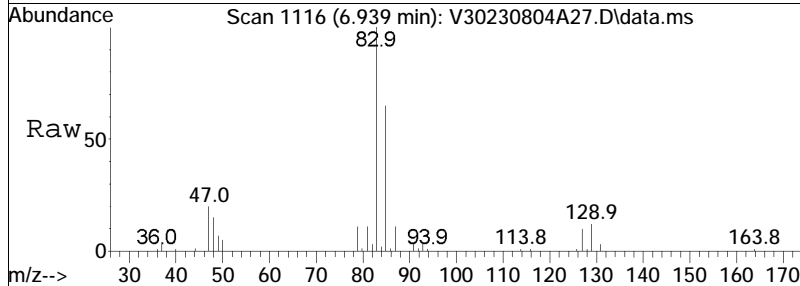
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
63	100		
62	71.7	58.1	87.1
76	43.9	30.4	45.6

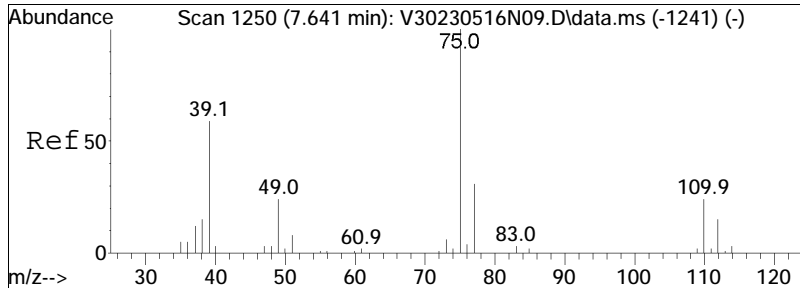




#58
 Bromodichloromethane
 Concen: 11.20 ug/L
 RT: 6.939 min Scan# 1116
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

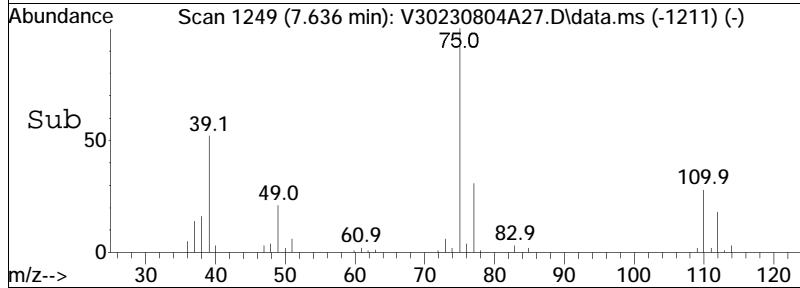
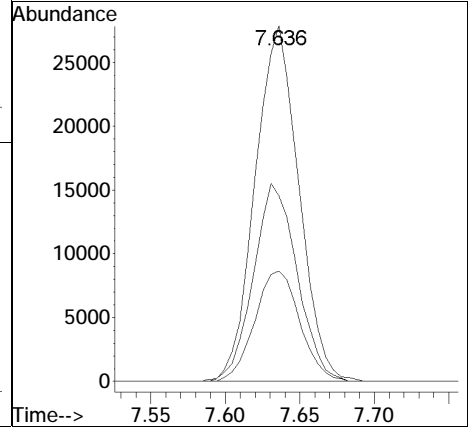
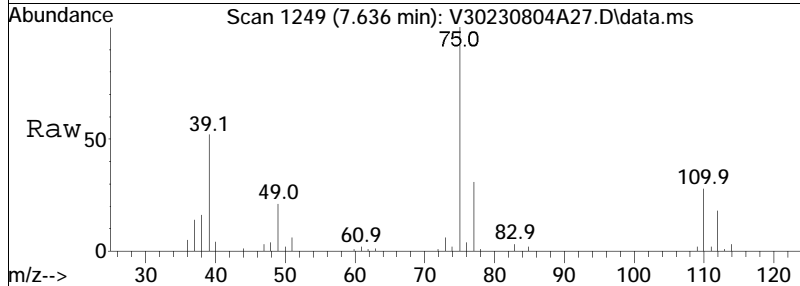
Tgt Ion	Resp	Lower	Upper
83	61587		
85	64.5	50.2	75.2
127	10.1	5.2	7.8#

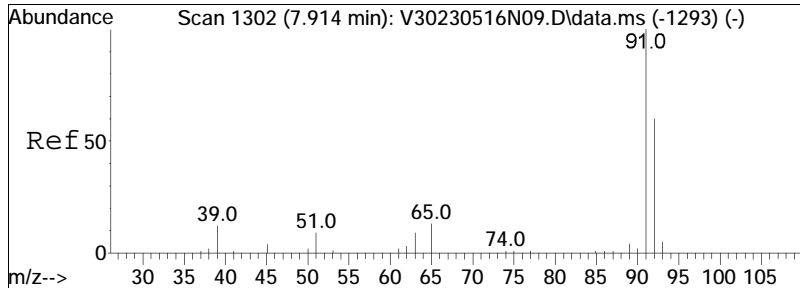




#62
 cis-1,3-Dichloropropene
 Concen: 9.81 ug/L
 RT: 7.636 min Scan# 1249
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

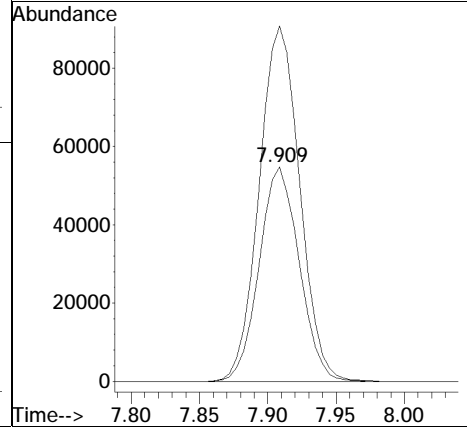
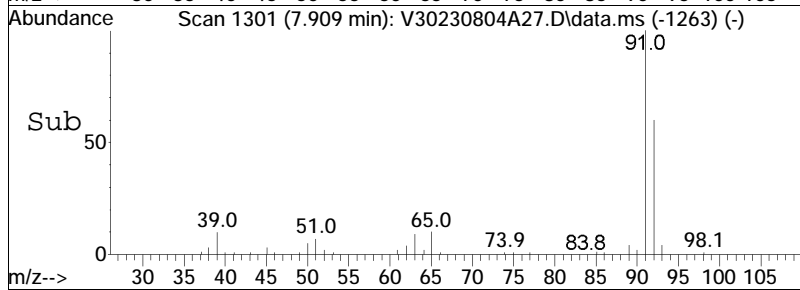
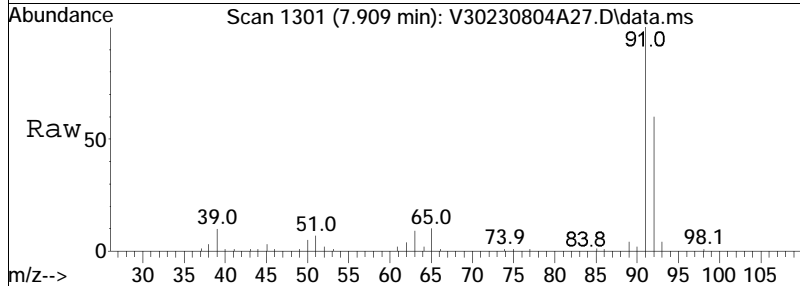
Tgt Ion:	75	Resp:	56777
Ion Ratio	Lower	Upper	
75	100		
77	32.2	25.4	38.2
39	55.7	54.6	82.0

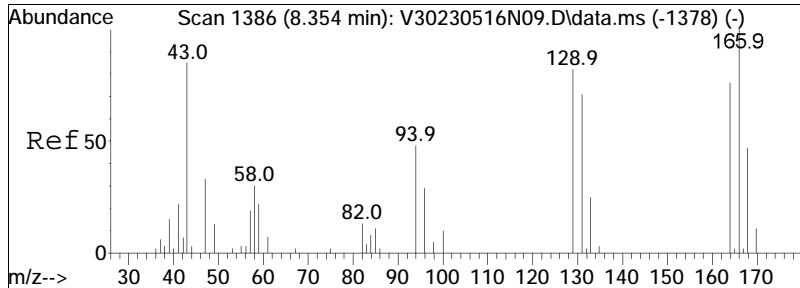




#65
 Toluene
 Concen: 9.74 ug/L
 RT: 7.909 min Scan# 1301
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

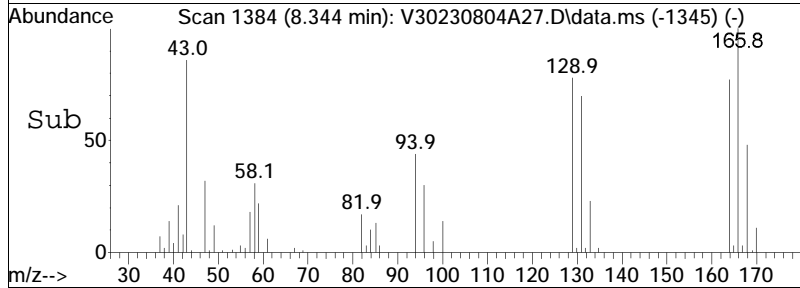
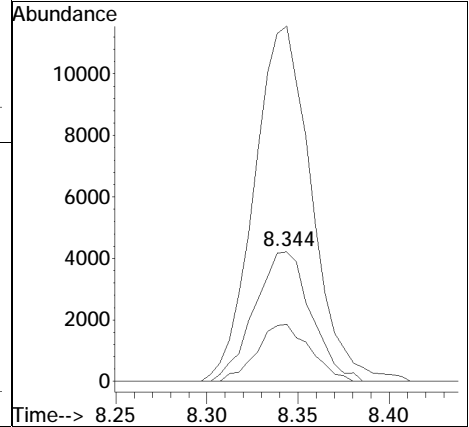
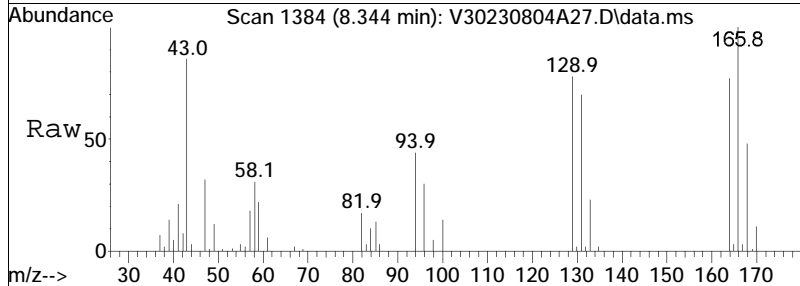
Tgt Ion:	Resp:	Lower	Upper
92	111418		
91	167.8	137.5	206.3

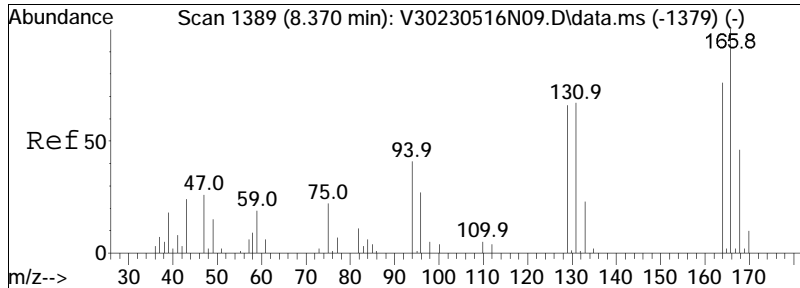




#66
 4-Methyl-2-pentanone
 Concen: 7.96 ug/L
 RT: 8.344 min Scan# 1384
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

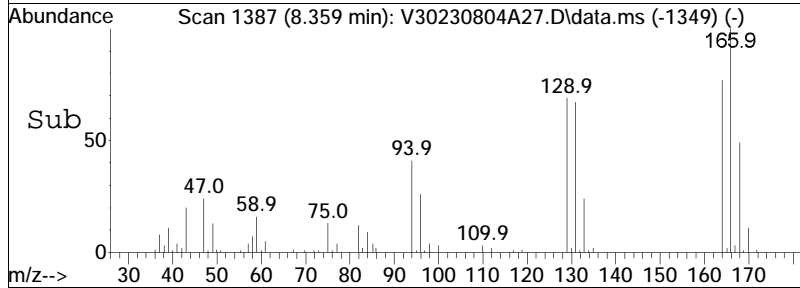
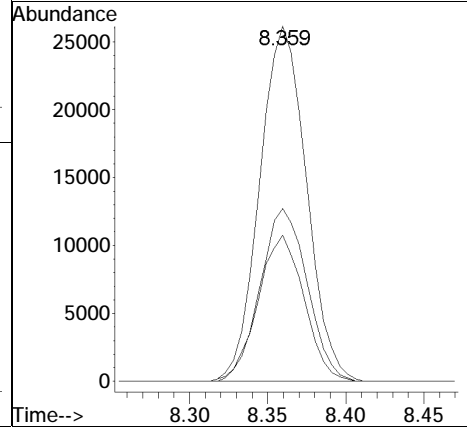
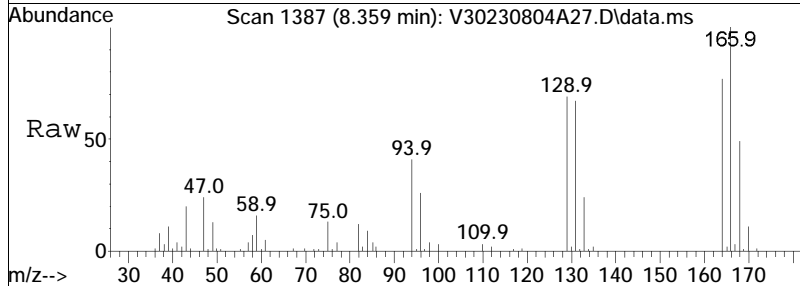
Tgt Ion	Resp	Lower	Upper
58	100		
100	41.7	22.6	34.0#
43	279.0	234.6	351.8

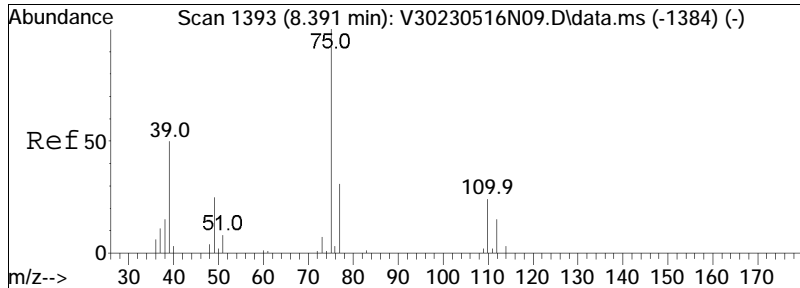




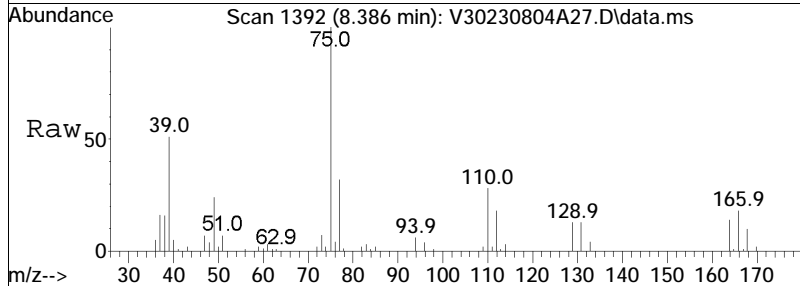
#67
 Tetrachloroethene
 Concen: 10.40 ug/L
 RT: 8.359 min Scan# 1387
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

Tgt Ion	Resp	Lower	Upper
166	100		
168	48.9	38.6	58.0
94	40.5	42.6	63.8#

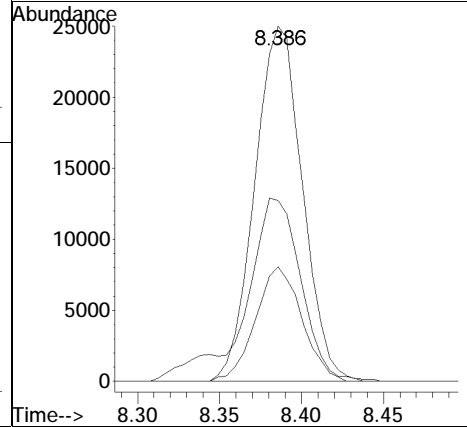
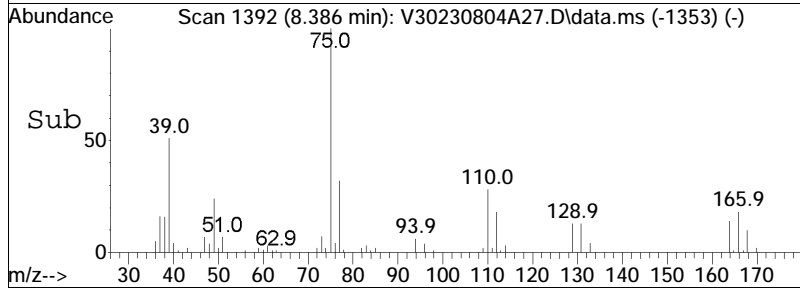


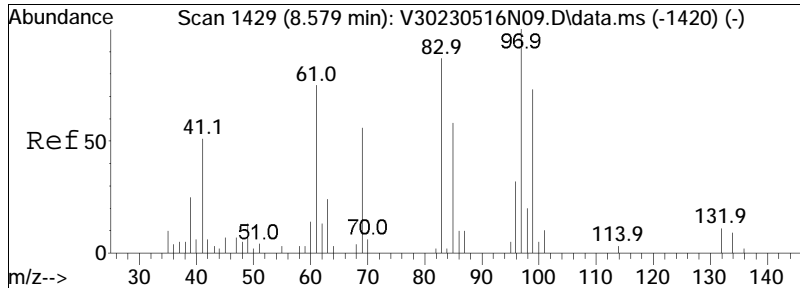


#69
 trans-1,3-Dichloropropene
 Concen: 8.54 ug/L
 RT: 8.386 min Scan# 1392
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm



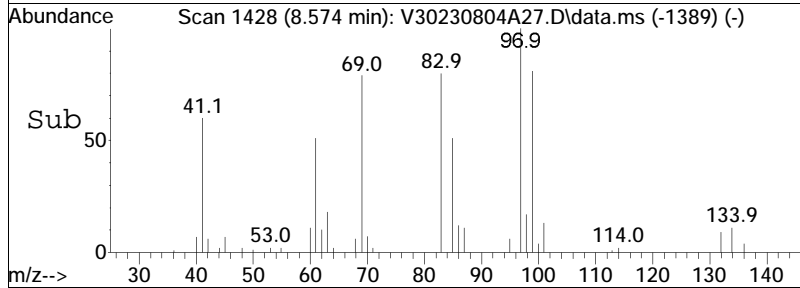
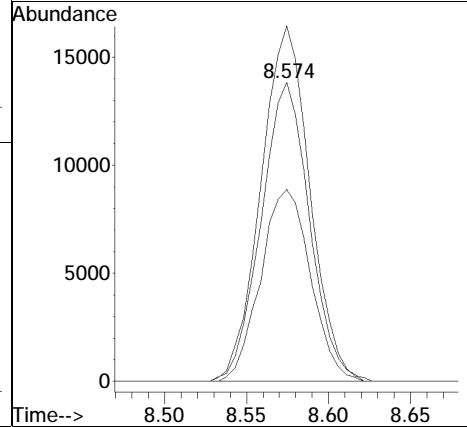
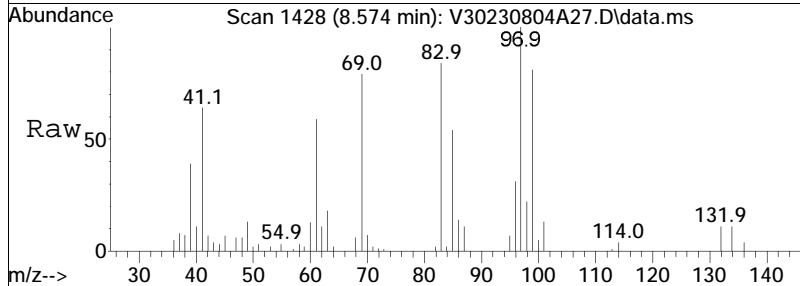
Tgt Ion:	75	Resp:	50560
Ion Ratio	Lower	Upper	
75	100		
77	31.4	25.6	38.4
39	60.1	60.2	90.4#

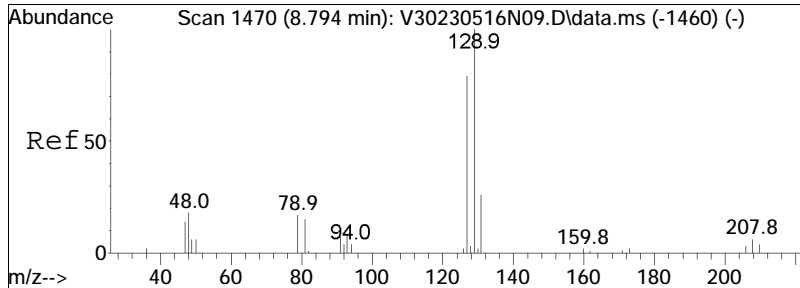




#72
 1,1,2-Trichloroethane
 Concen: 9.22 ug/L
 RT: 8.574 min Scan# 1428
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

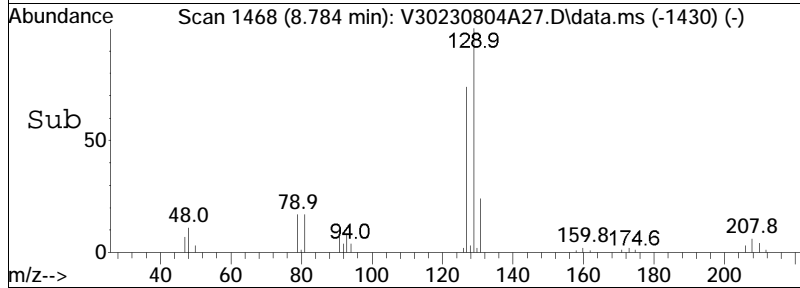
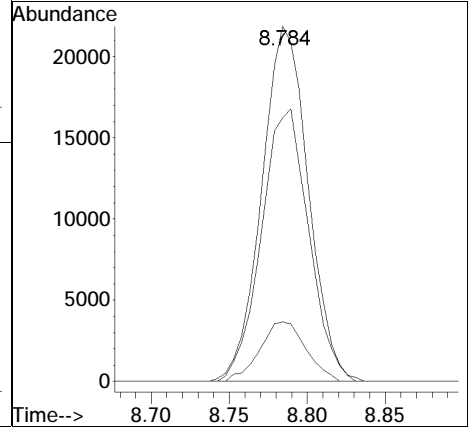
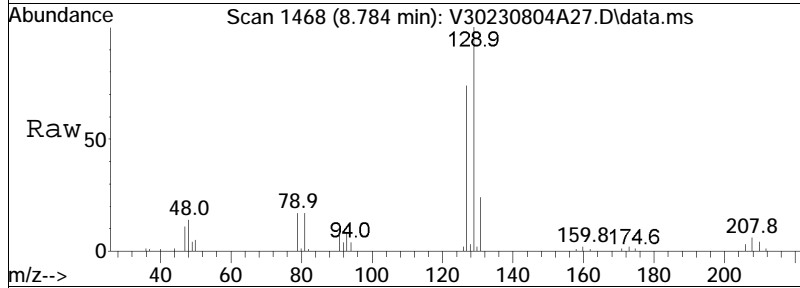
Tgt Ion:	83	Resp:	28354
Ion Ratio	Lower	Upper	
83	100		
97	120.6	87.7	131.5
85	66.3	53.1	79.7

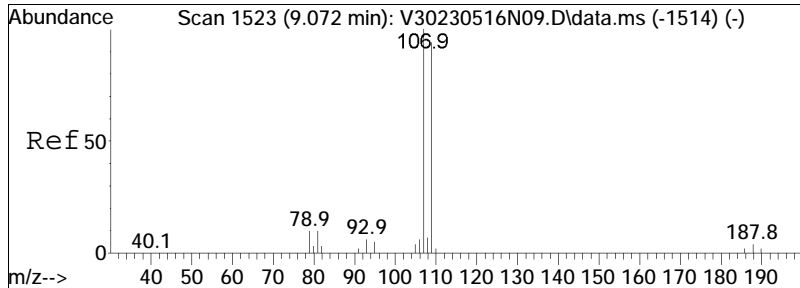




#73
 Chlorodibromomethane
 Concen: 9.26 ug/L
 RT: 8.784 min Scan# 1468
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

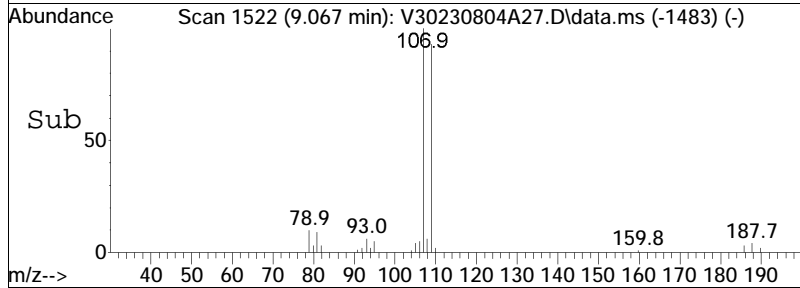
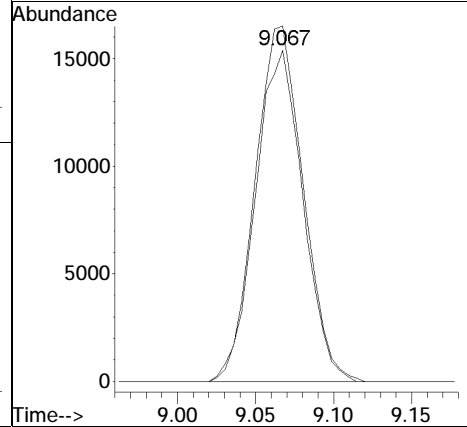
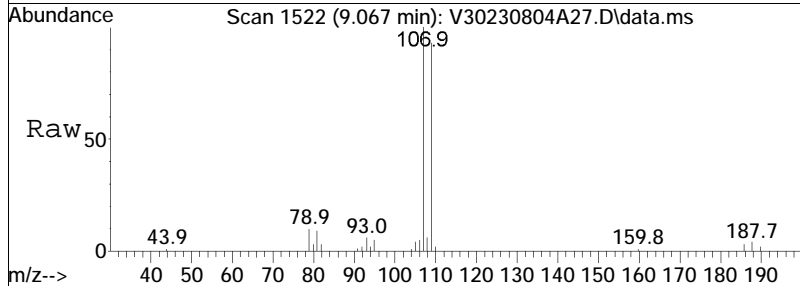
Tgt Ion	Ratio	Lower	Upper
129	100		
81	16.6	14.6	22.0
127	78.0	62.6	93.8

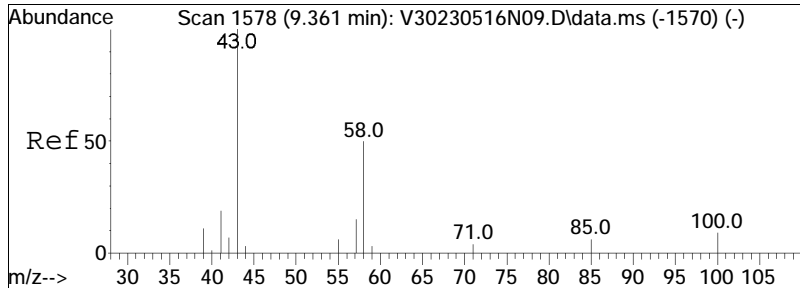




#75
 1,2-Dibromoethane
 Concen: 9.35 ug/L
 RT: 9.067 min Scan# 1522
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

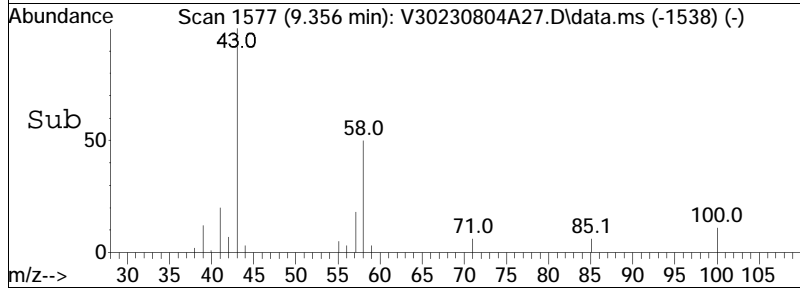
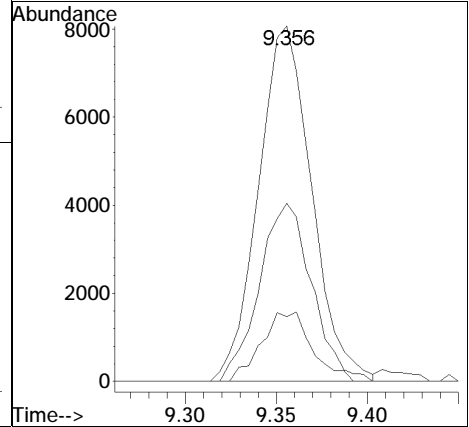
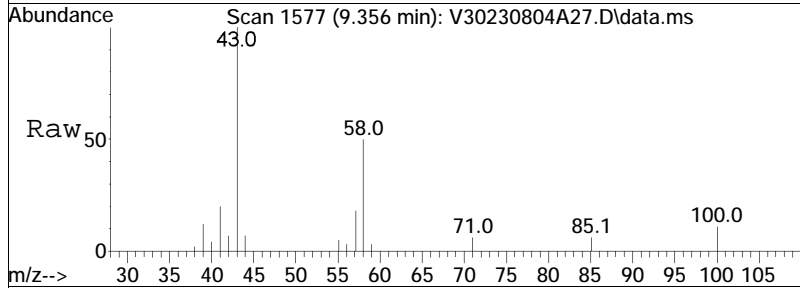
Tgt Ion	Resp	Lower	Upper
107	35380		
109	91.6	75.0	112.4

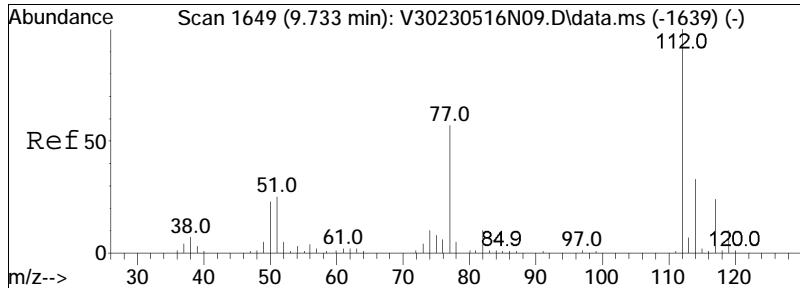




#77
 2-Hexanone
 Concen: 7.30 ug/L
 RT: 9.356 min Scan# 1577
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

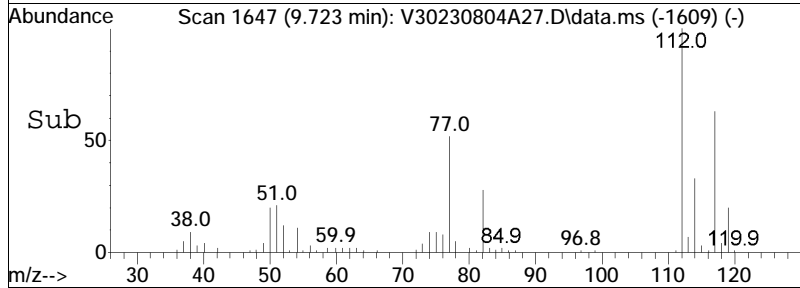
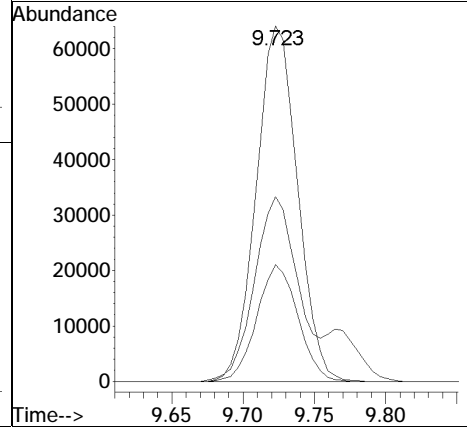
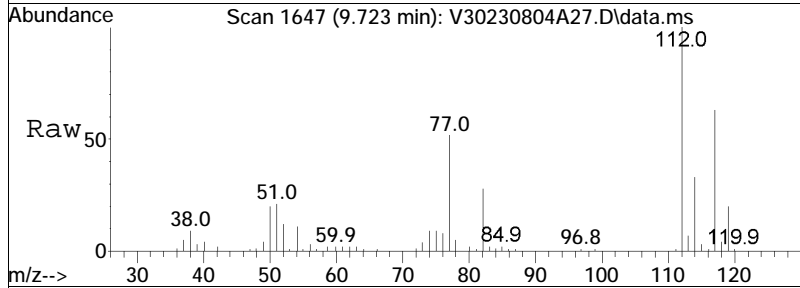
Tgt Ion:	43	Resp:	16397
Ion Ratio	Lower	Upper	
43	100		
58	49.6	38.6	58.0
57	18.4	14.1	21.1

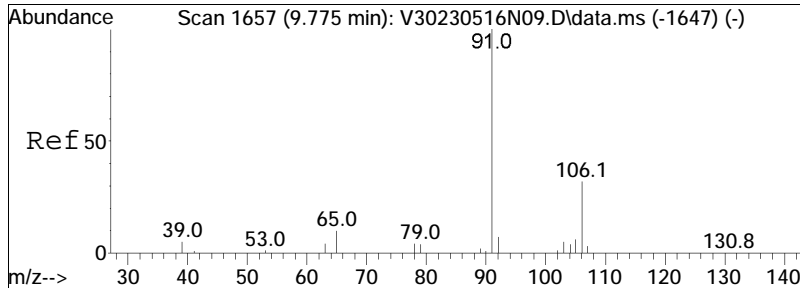




#78
 Chlorobenzene
 Concen: 9.65 ug/L
 RT: 9.723 min Scan# 1647
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

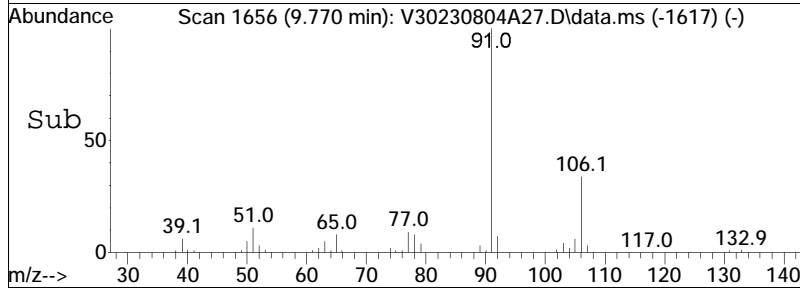
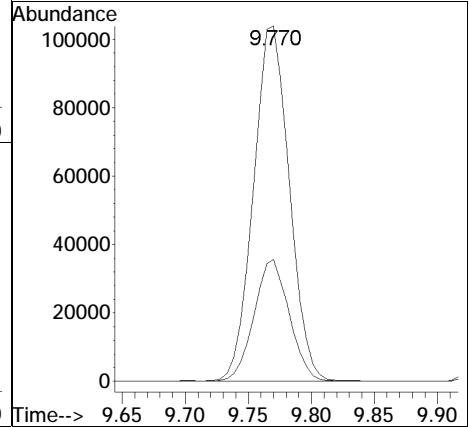
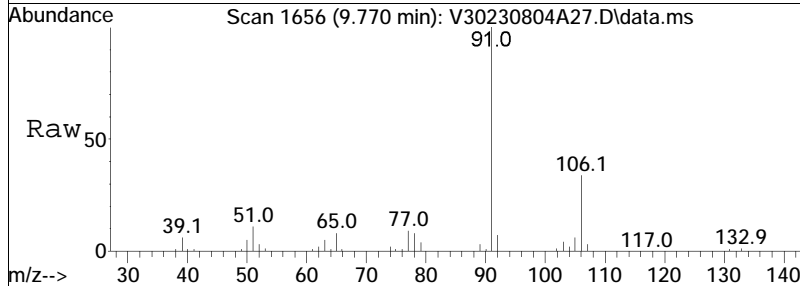
Tgt Ion	Resp	Lower	Upper
112	129078		
77	55.1	54.8	82.2
114	32.7	25.4	38.0

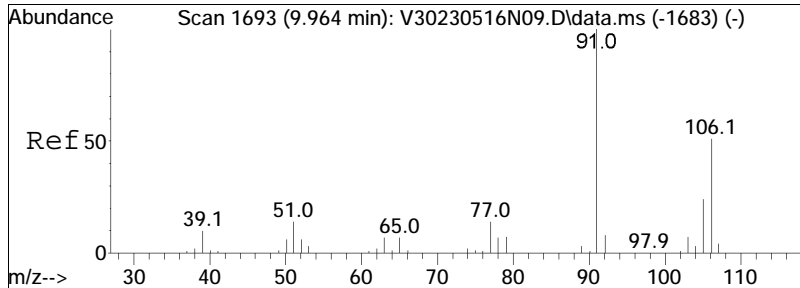




#79
 Ethylbenzene
 Concen: 9.31 ug/L
 RT: 9.770 min Scan# 1656
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

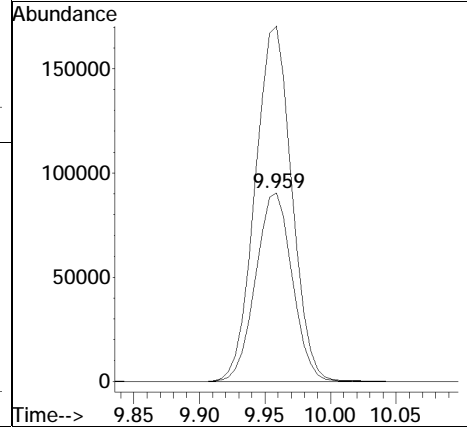
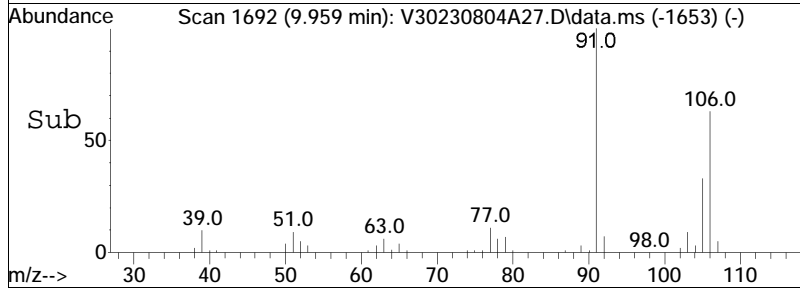
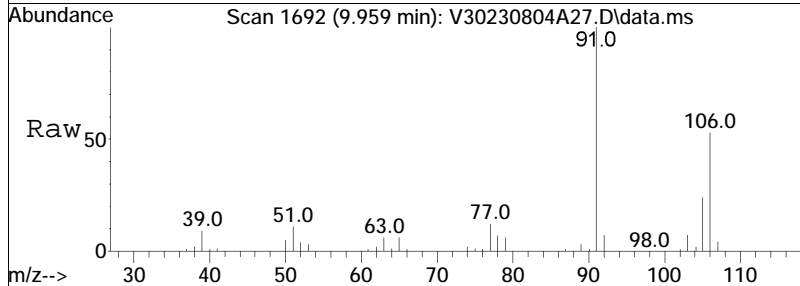
Tgt Ion: 91 Resp: 205691
 Ion Ratio Lower Upper
 91 100
 106 33.7 23.4 35.2

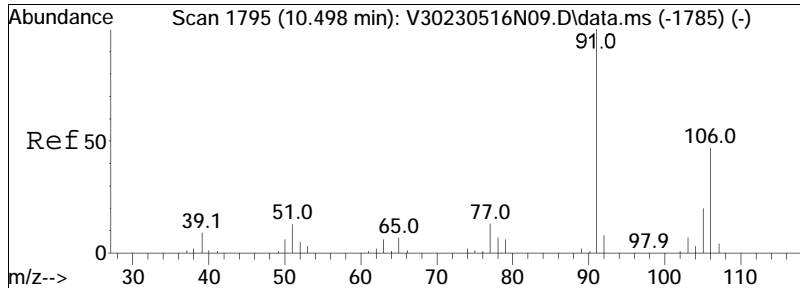




#81
 p/m Xylene
 Concen: 19.19 ug/L
 RT: 9.959 min Scan# 1692
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

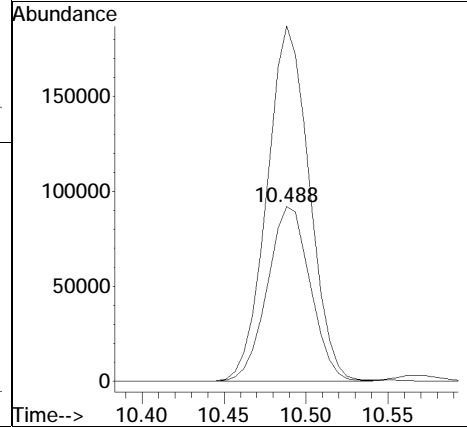
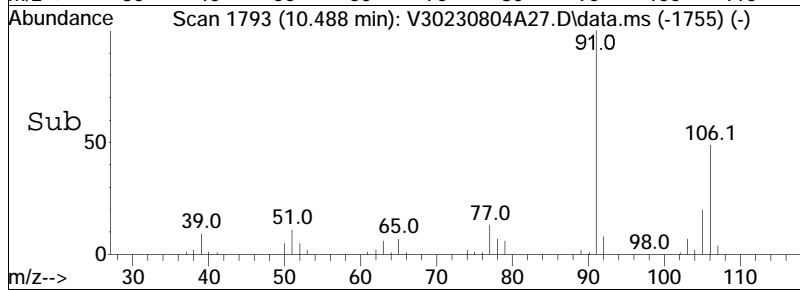
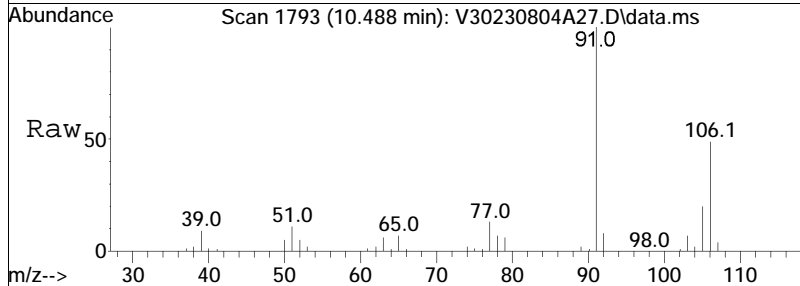
Tgt Ion	Resp	Lower	Upper
106	100		
91	188.9	171.4	257.2

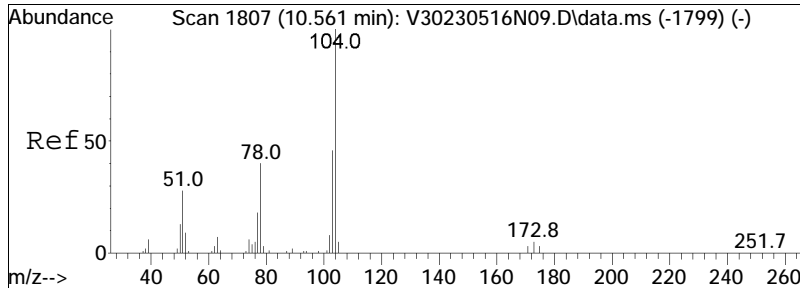




#82
 o Xylene
 Concen: 18.64 ug/L
 RT: 10.488 min Scan# 1793
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

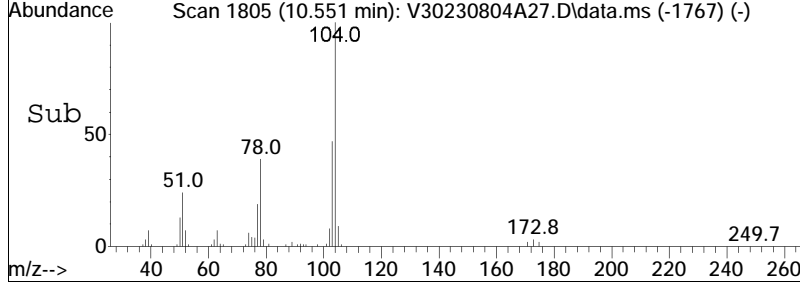
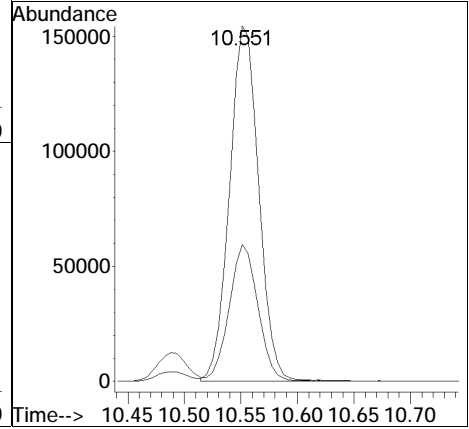
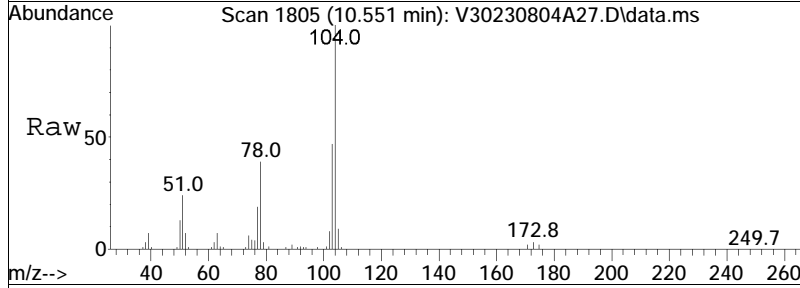
Tgt Ion	Resp	Lower	Upper
106	100		
91	200.2	179.2	268.8

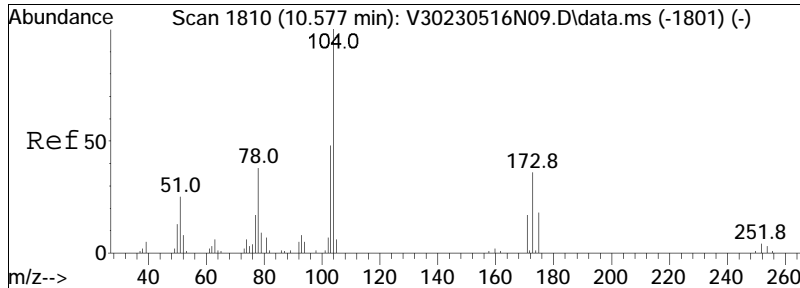




#83
 Styrene
 Concen: 18.94 ug/L
 RT: 10.551 min Scan# 1805
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

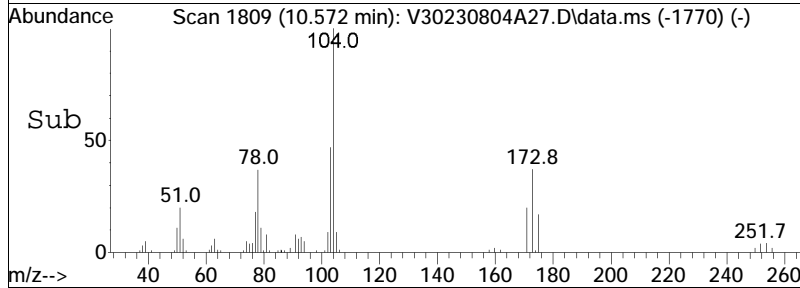
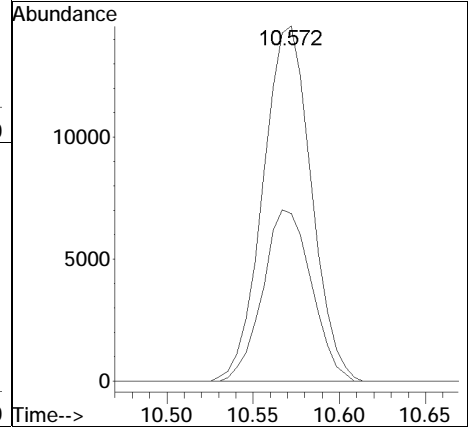
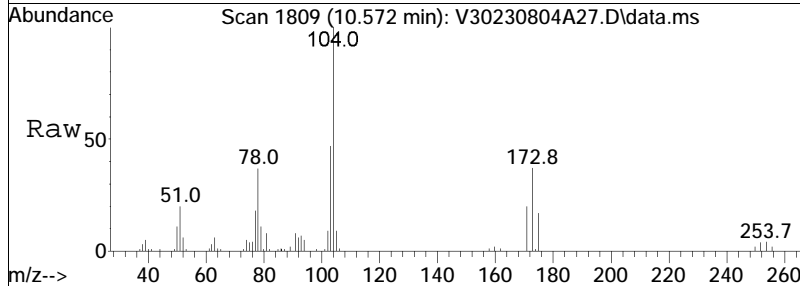
Tgt Ion	104	78	Ratio	Lower	Upper
Resp:	276971				
Ion Ratio	100	38.1		38.1	57.1

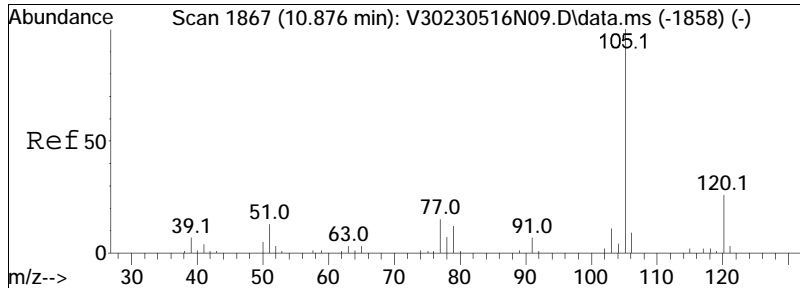




#85
 Bromoform
 Concen: 8.68 ug/L
 RT: 10.572 min Scan# 1809
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

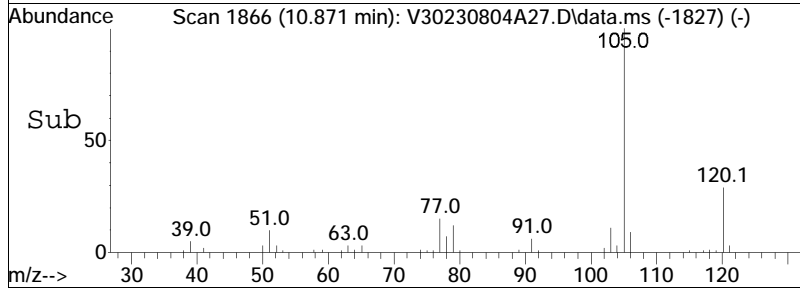
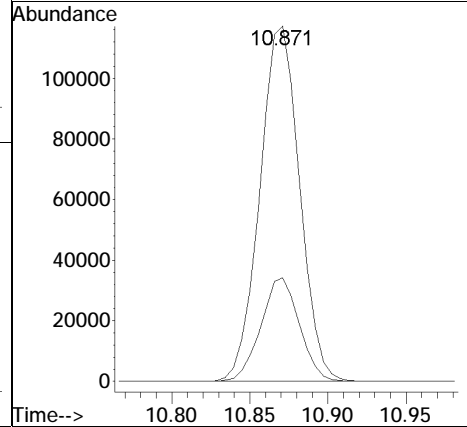
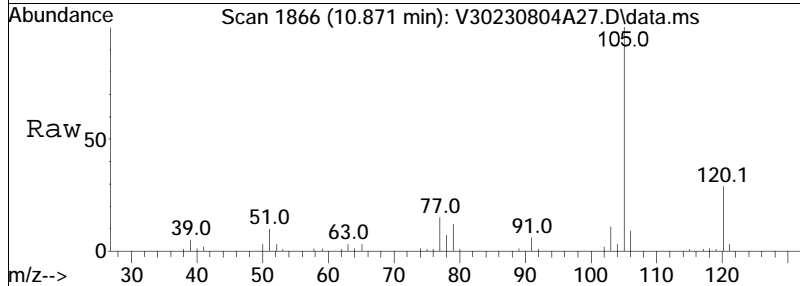
Tgt Ion	Resp	Lower	Upper
173	28377		
173	100		
175	48.7	37.8	56.6

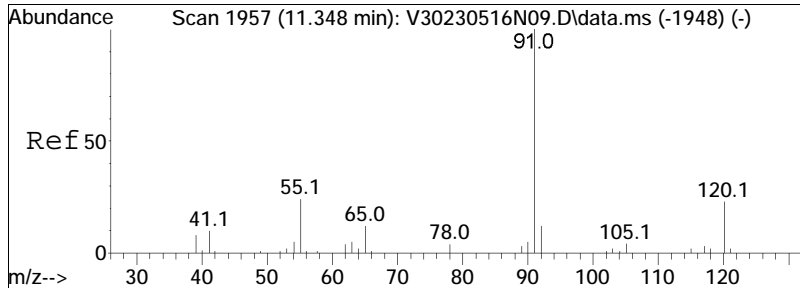




#87
 Isopropylbenzene
 Concen: 8.45 ug/L
 RT: 10.871 min Scan# 1866
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

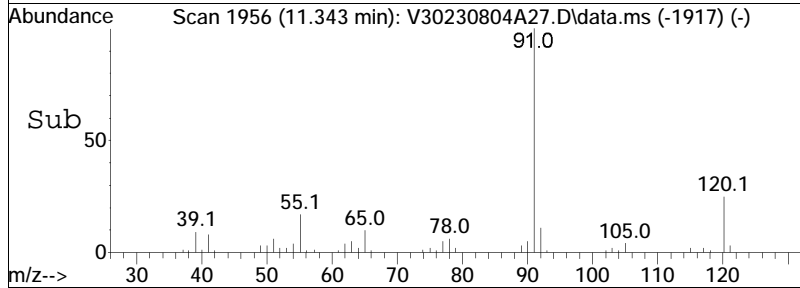
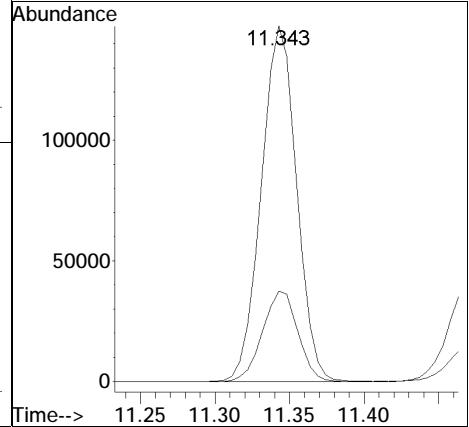
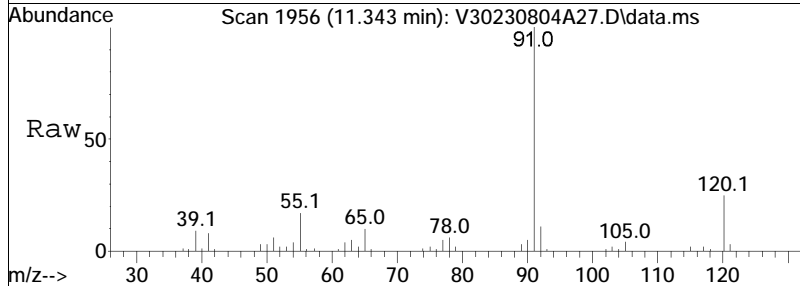
Tgt Ion	Resp	Lower	Upper
105	100		
120	28.2	20.0	30.0

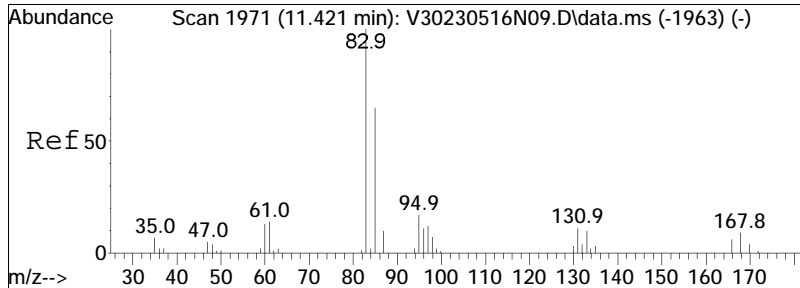




#90
 n-Propylbenzene
 Concen: 8.60 ug/L
 RT: 11.343 min Scan# 1956
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

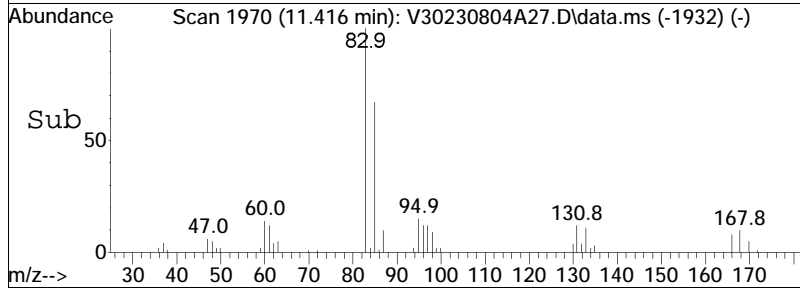
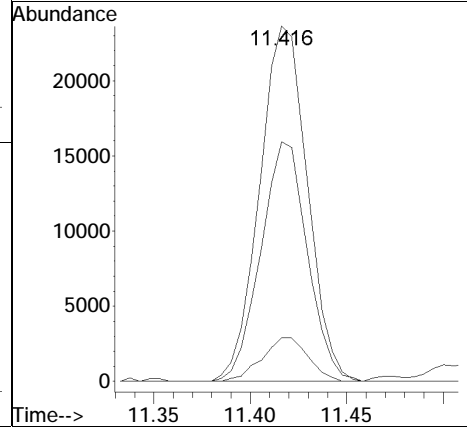
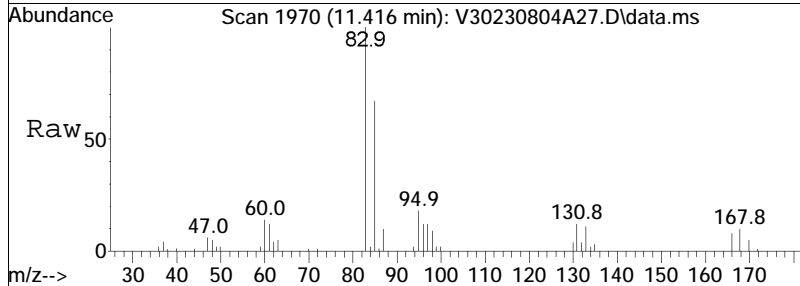
Tgt Ion:	Resp:	Lower	Upper
91	100		
120	25.3	16.3	24.5#

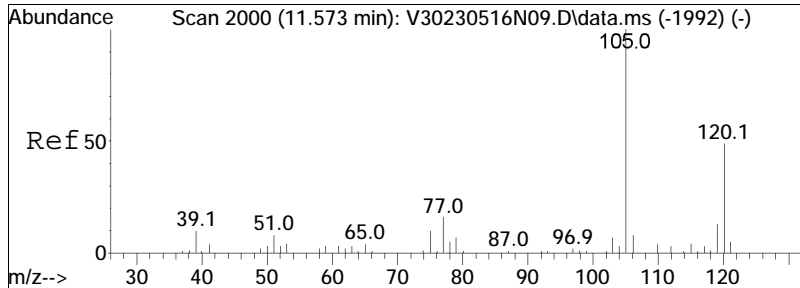




#92
 1,1,2,2-Tetrachloroethane
 Concen: 9.58 ug/L
 RT: 11.416 min Scan# 1970
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

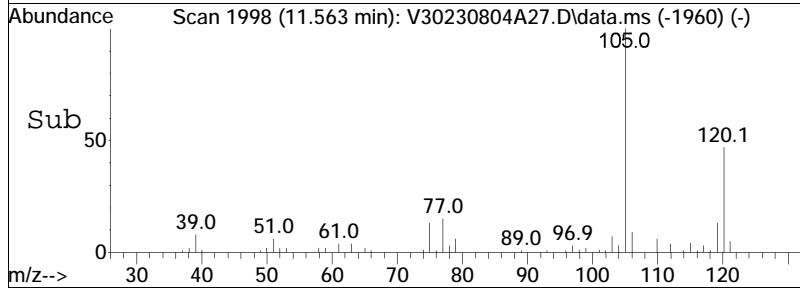
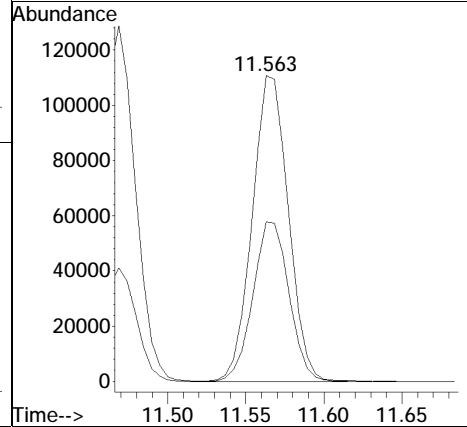
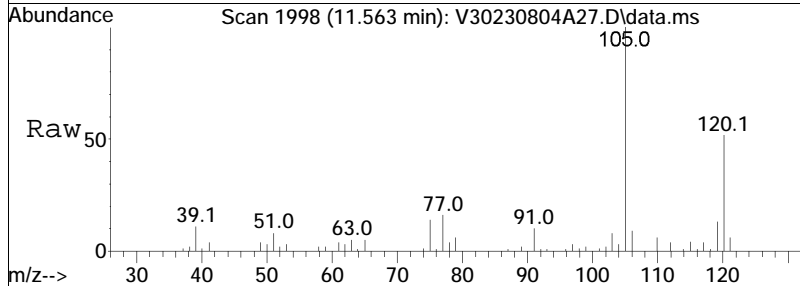
Tgt Ion	Resp	Lower	Upper
83	40727		
83	100		
131	12.0	6.6	10.0#
85	65.8	51.8	77.6

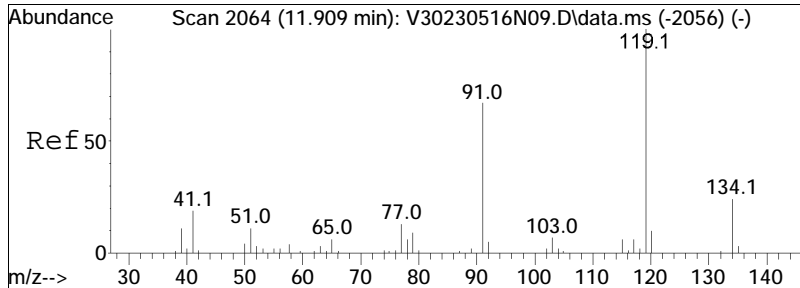




#95
 1,3,5-Trimethylbenzene
 Concen: 8.76 ug/L
 RT: 11.563 min Scan# 1998
 Delta R.T. 0.000 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

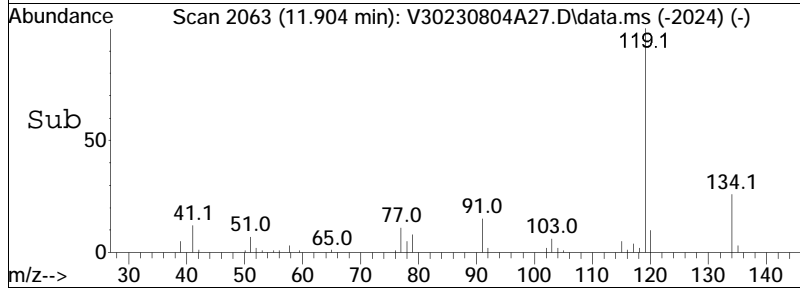
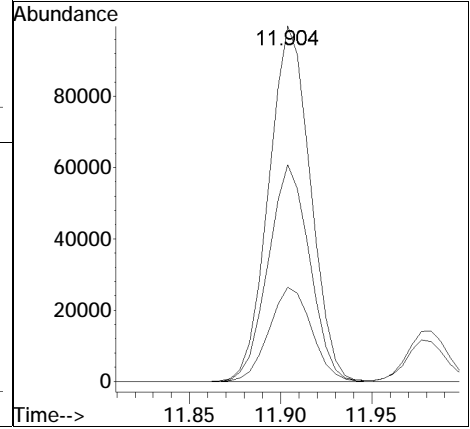
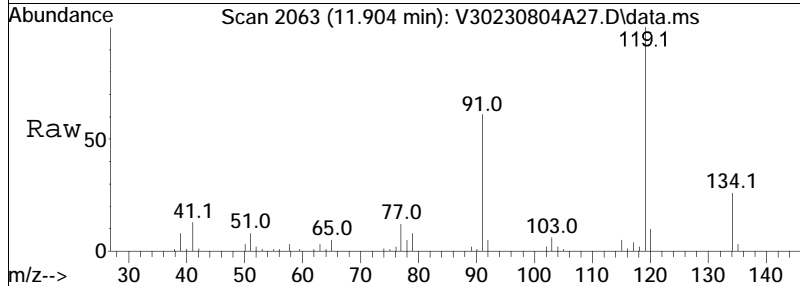
Tgt Ion: 105 Resp: 177842
 Ion Ratio Lower Upper
 105 100
 120 52.1 37.8 56.6

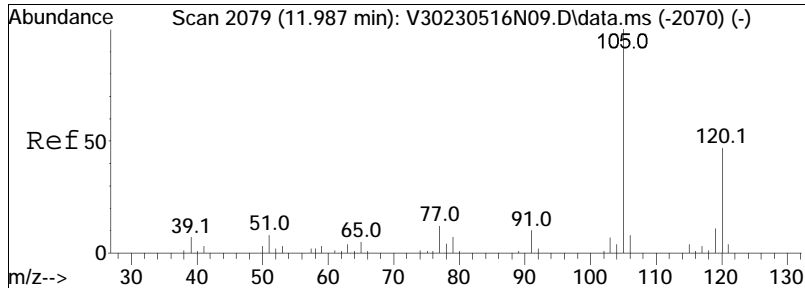




#99
 tert-Butylbenzene
 Concen: 8.63 ug/L
 RT: 11.904 min Scan# 2063
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

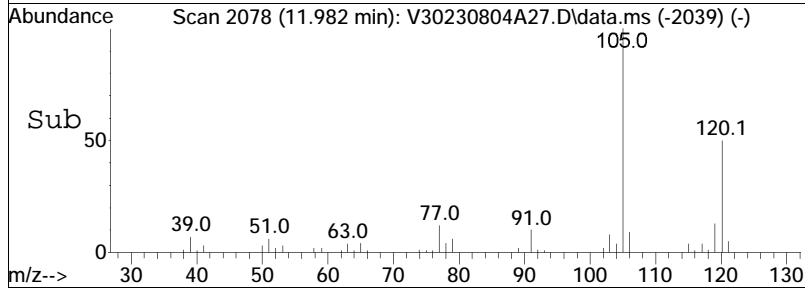
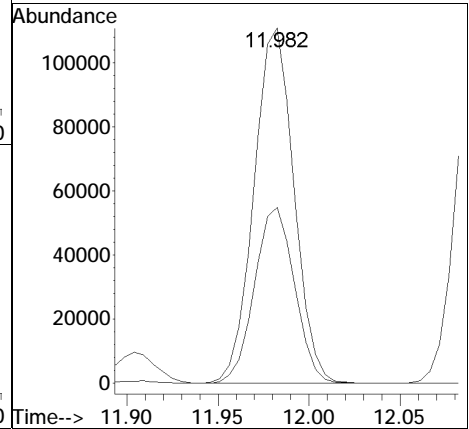
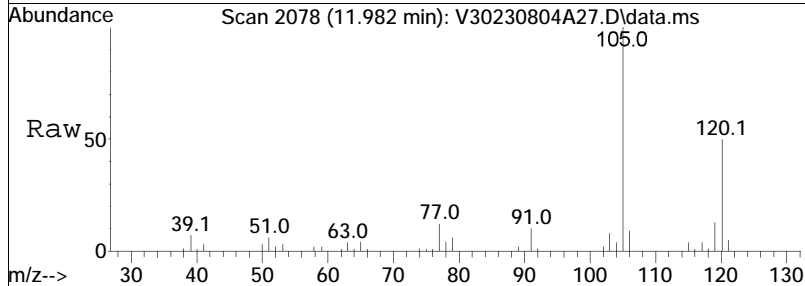
Tgt Ion	Resp	Lower	Upper
119	100		
91	60.9	58.8	88.2
134	27.0	18.6	27.8

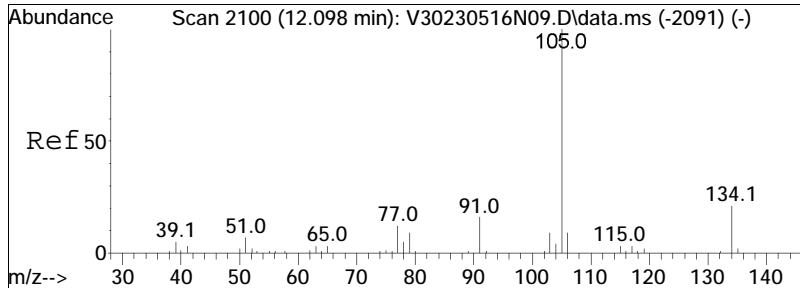




#102
 1,2,4-Trimethylbenzene
 Concen: 8.50 ug/L
 RT: 11.982 min Scan# 2078
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

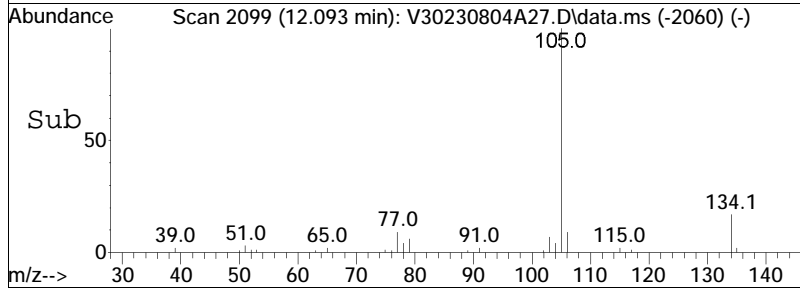
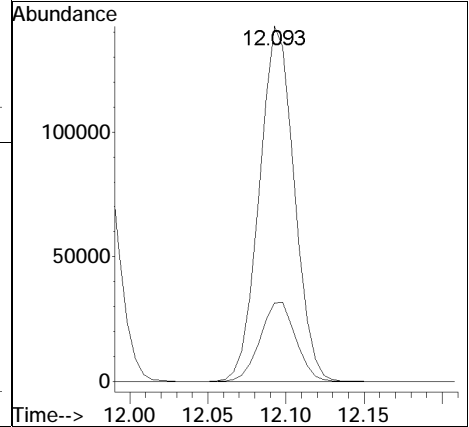
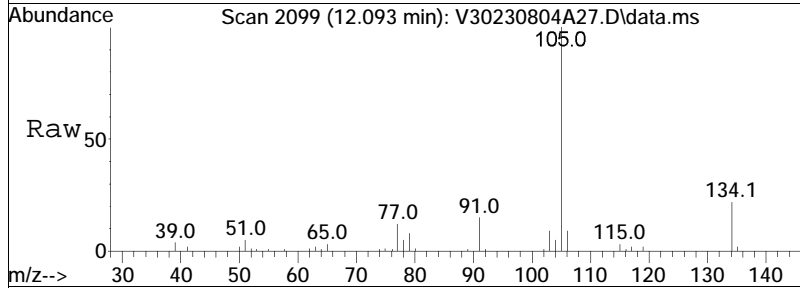
Tgt Ion	Resp	Lower	Upper
105	100		
120	49.5	35.2	52.8

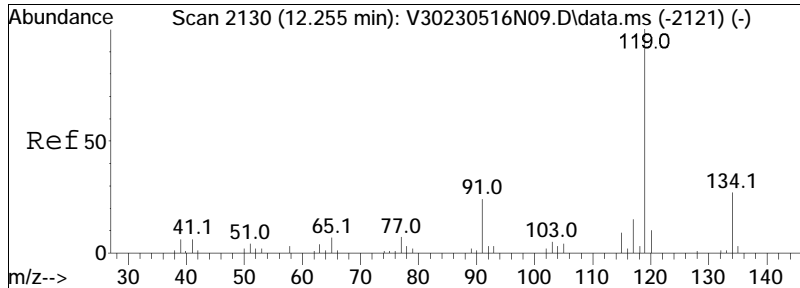




#103
 sec-Butylbenzene
 Concen: 8.63 ug/L
 RT: 12.093 min Scan# 2099
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

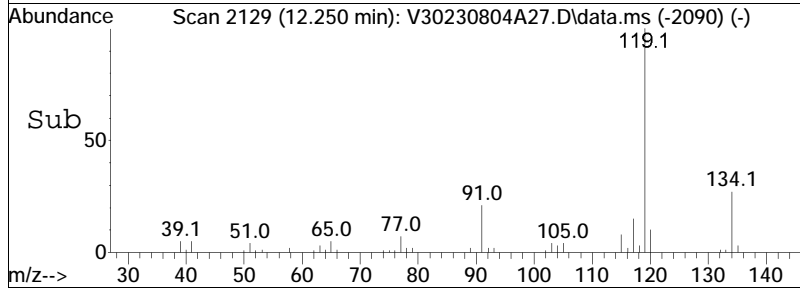
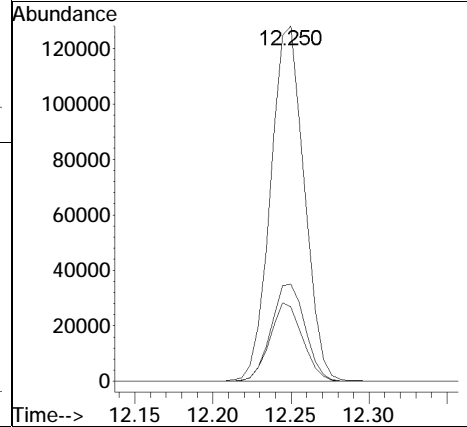
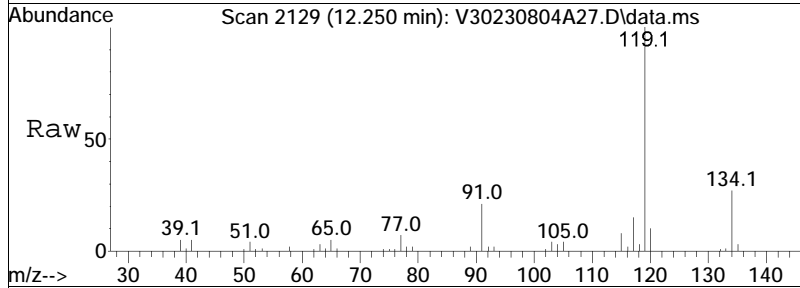
Tgt Ion	Resp	Lower	Upper
105	100		
134	22.7	11.4	23.6

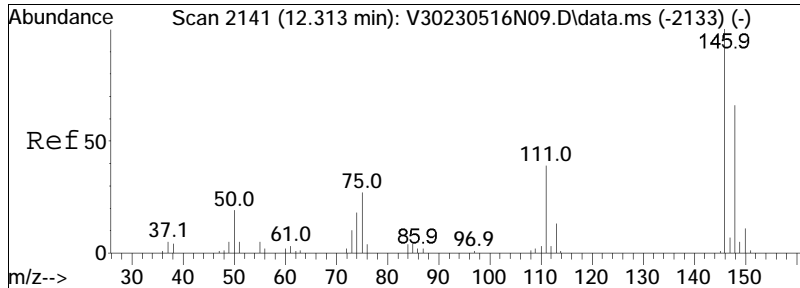




#104
 p-Isopropyltoluene
 Concen: 8.52 ug/L
 RT: 12.250 min Scan# 2129
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

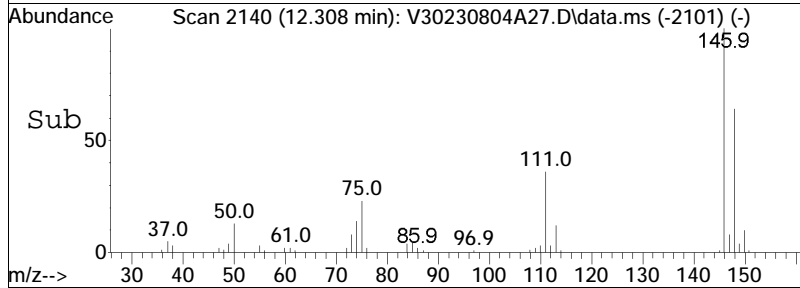
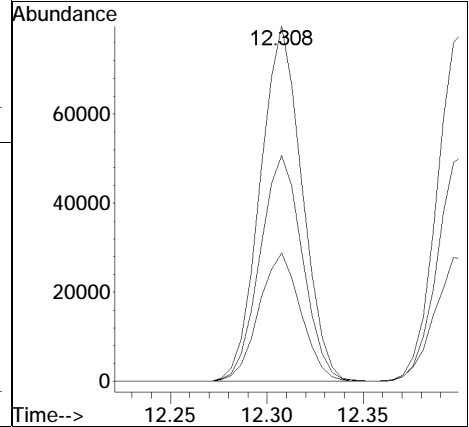
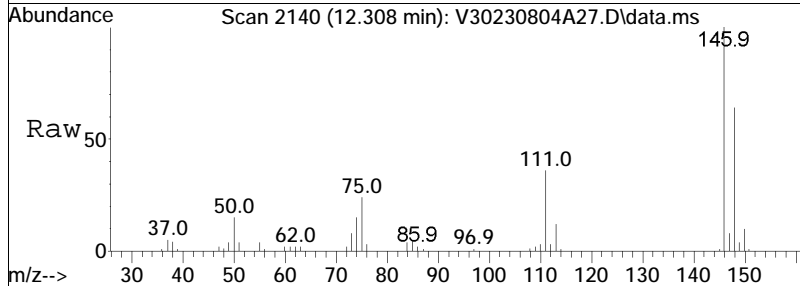
Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.7	15.9	33.1
91	21.6	16.6	34.4

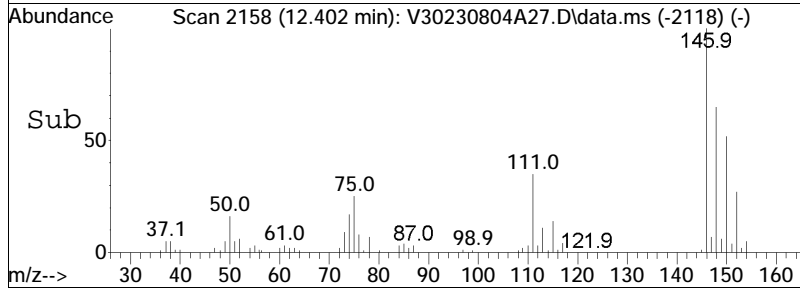
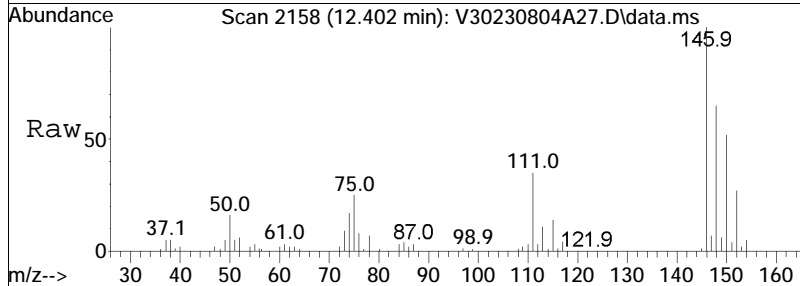
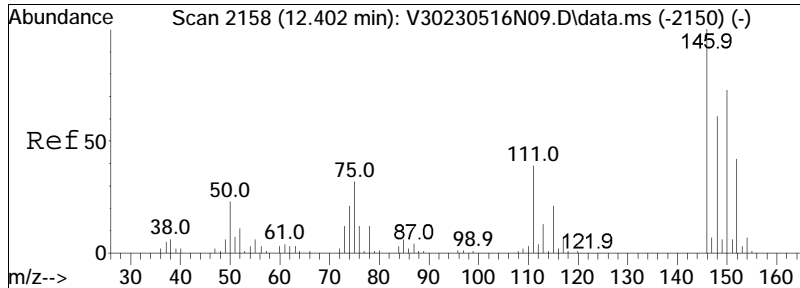




#105
 1,3-Dichlorobenzene
 Concen: 9.15 ug/L
 RT: 12.308 min Scan# 2140
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

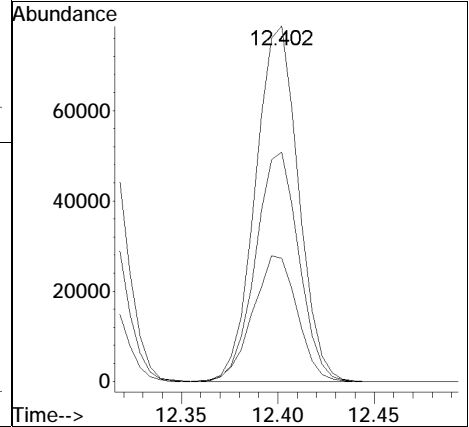
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.2	28.0	58.1
148	64.5	40.8	84.6

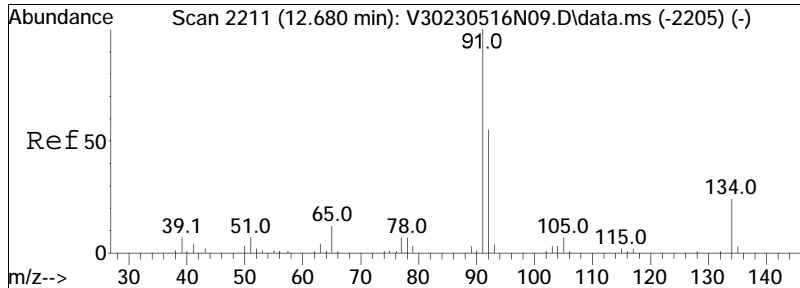




#106
 1,4-Dichlorobenzene
 Concen: 9.26 ug/L
 RT: 12.402 min Scan# 2158
 Delta R.T. 0.011 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

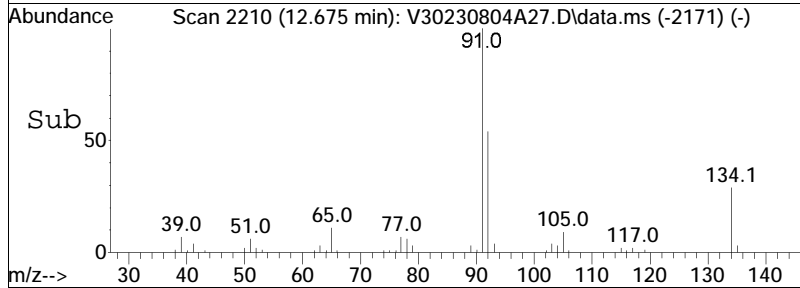
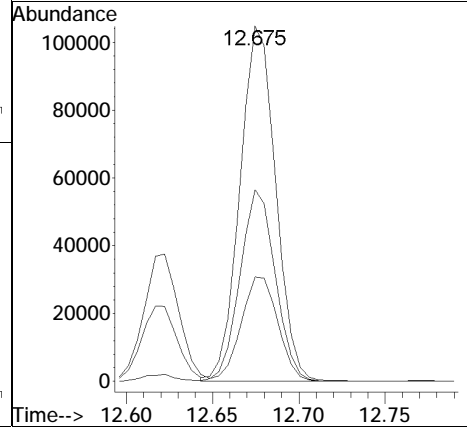
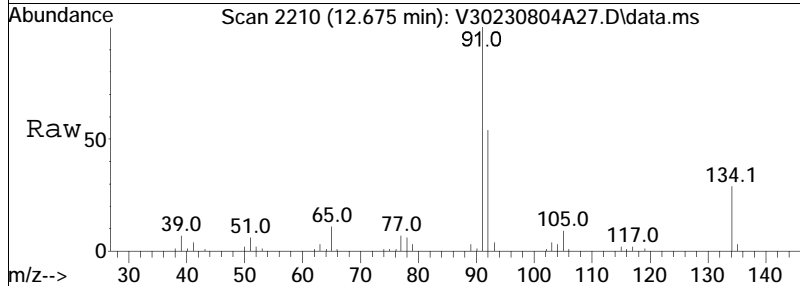
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.5	33.7	50.5
148	64.8	50.8	76.2

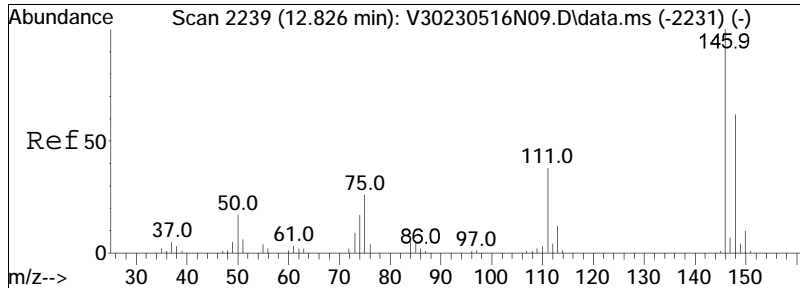




#108
 n-Butylbenzene
 Concen: 8.57 ug/L
 RT: 12.675 min Scan# 2210
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

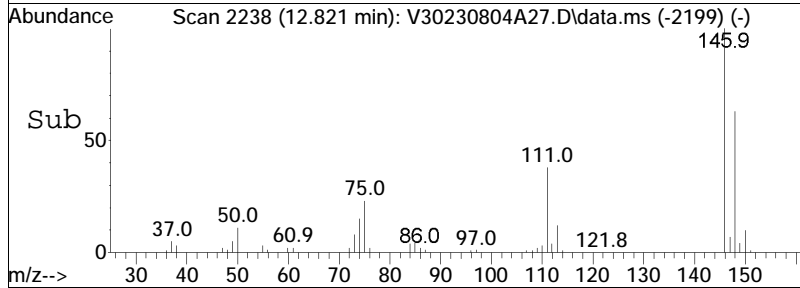
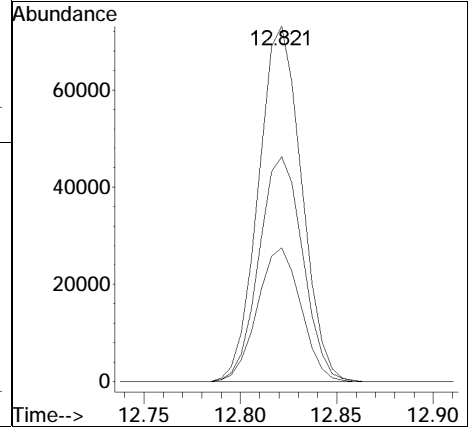
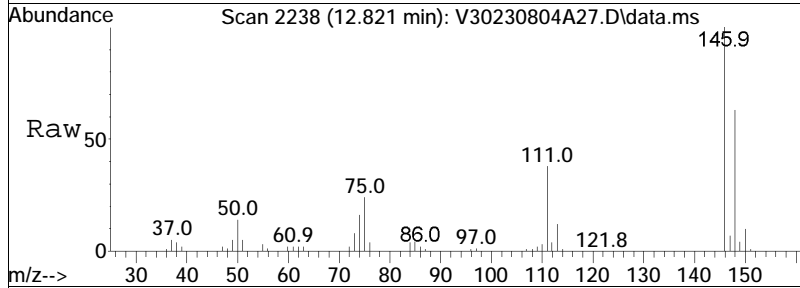
Tgt Ion:	91	Resp:	151306
Ion Ratio	Lower	Upper	
91	100		
92	53.3	44.2	66.4
134	30.2	17.8	26.6#

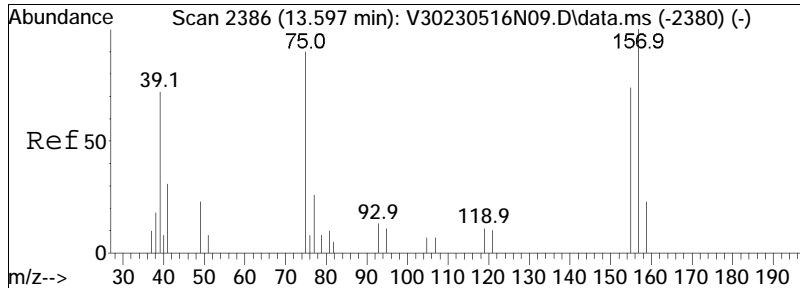




#109
 1,2-Dichlorobenzene
 Concen: 9.09 ug/L
 RT: 12.821 min Scan# 2238
 Delta R.T. 0.005 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

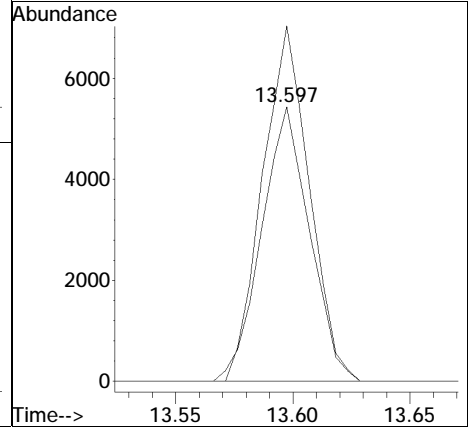
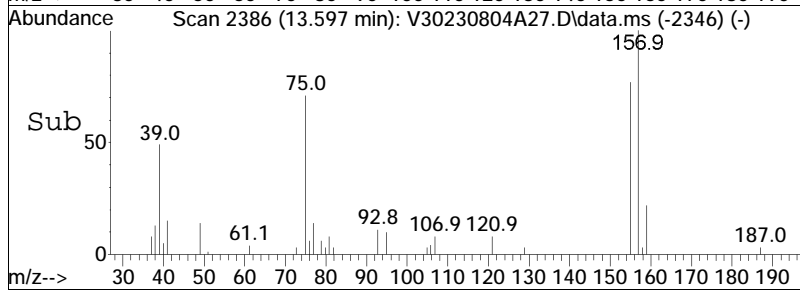
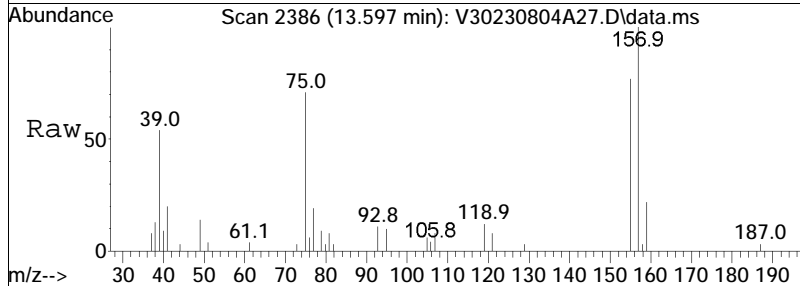
Tgt Ion	Resp	Lower	Upper
146	100		
111	37.8	29.5	61.3
148	64.0	41.3	85.9

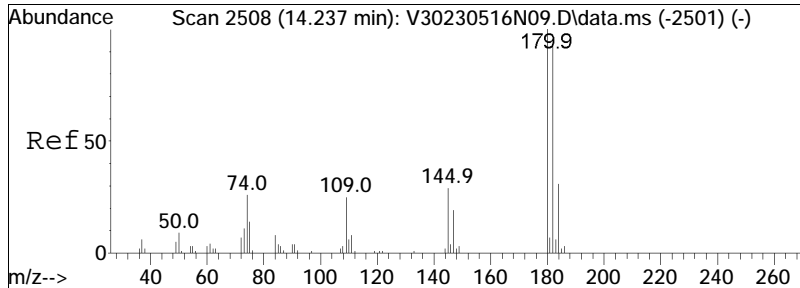




#111
 1,2-Dibromo-3-chloropropane
 Concen: 8.87 ug/L
 RT: 13.597 min Scan# 2386
 Delta R.T. 0.011 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

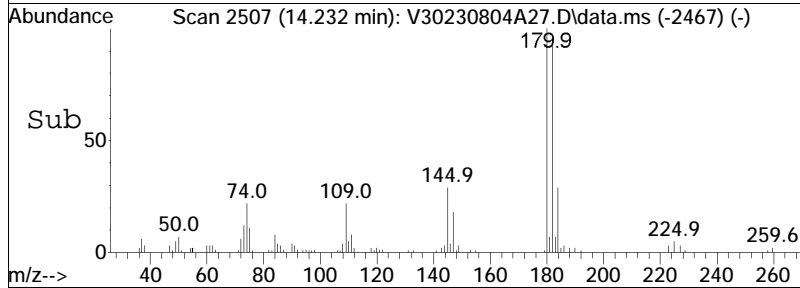
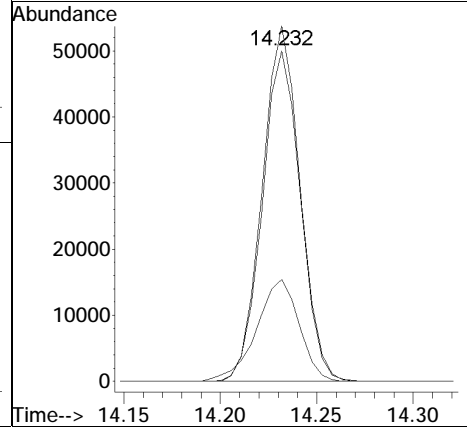
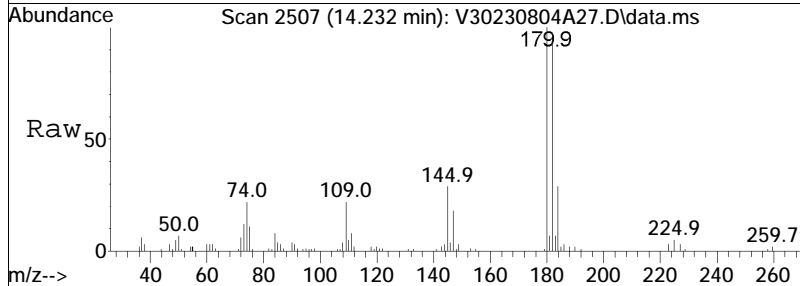
Tgt Ion: 155 Resp: 7749
 Ion Ratio Lower Upper
 155 100
 157 126.1 105.1 157.7

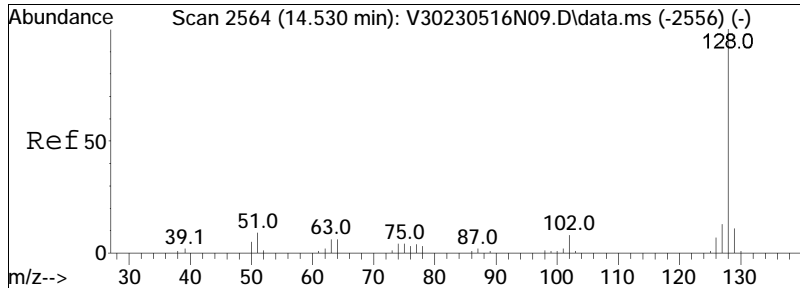




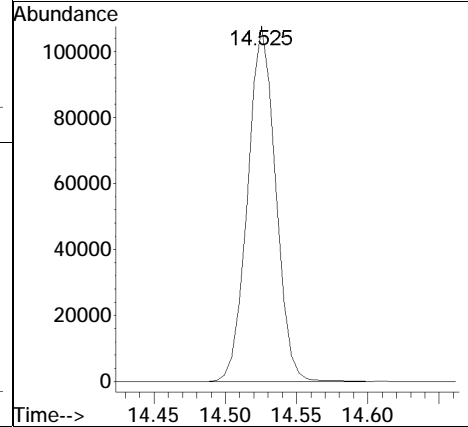
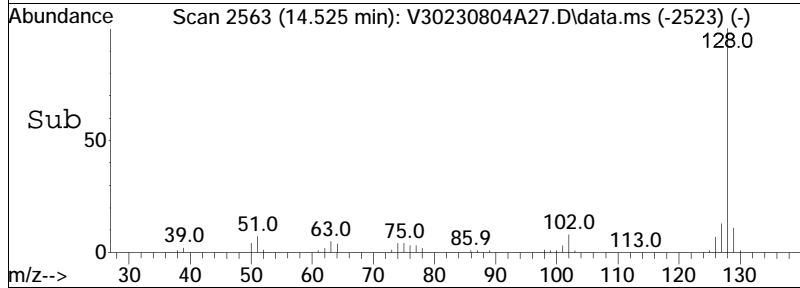
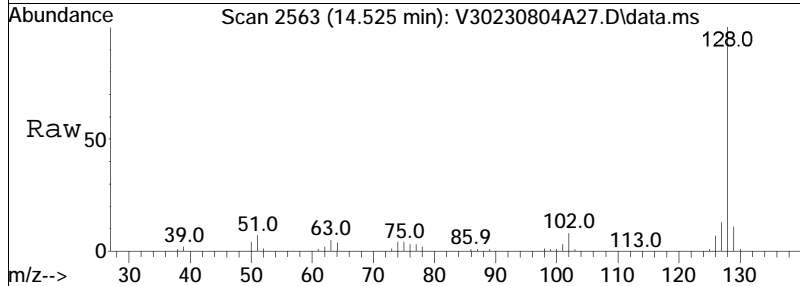
#114
 1,2,4-Trichlorobenzene
 Concen: 9.50 ug/L
 RT: 14.232 min Scan# 2507
 Delta R.T. 0.011 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.5	75.7	113.5
145	32.2	27.4	41.2





#115
 Naphthalene
 Concen: 8.35 ug/L
 RT: 14.525 min Scan# 2563
 Delta R.T. 0.011 min
 Lab File: V30230804A27.D
 Acq: 04 Aug 2023 04:20 pm
 Tgt Ion:128 Resp: 146831



Manual Integration Report

Data Path : K:\VOA130\2023\230804A\ QMethod : V130_230713N_8260D.m
Data File : V30230804A27.D Operator : VOA130:PID
Date Inj'd : 8/4/2023 4:20 pm Instrument : VOA130
Sample : WG1811888-6,31,10,10,,A1 Quant Date : 8/5/2023 2:52 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A28.D
 Acq On : 04 Aug 2023 04:42 pm
 Operator : VOA130:PID
 Sample : WG1811888-7,31,10,10,,A2
 Misc : WG1811888,ICAL20171
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 05 14:52:08 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
 Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.142	96	254381	10.000	ug/L	# 0.00
Standard Area 1 = 302647			Recovery =	84.05%		
63) Chlorobenzene-d5	9.702	117	259163	10.000	ug/L	# 0.00
Standard Area 1 = 290495			Recovery =	89.21%		
84) 1,4-Dichlorobenzene-d4	12.386	152	169038	10.000	ug/L	0.00
Standard Area 1 = 184997			Recovery =	91.37%		
System Monitoring Compounds						
39) Dibromofluoromethane	5.324	113	89360	11.508	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	115.08%		
47) 1,2-Dichloroethane-d4	5.853	65	82878	10.621	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.21%		
64) Toluene-d8	7.851	98	294077	9.507	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.07%		
88) 4-Bromofluorobenzene	11.180	95	116712	8.650	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	86.50%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.685	85	57523	10.960	ug/L	95
3) Chloromethane	1.879	50	62964	13.135	ug/L	98
4) Vinyl chloride	1.958	62	72221	13.615	ug/L	97
5) Bromomethane	2.277	94	37221	11.530	ug/L	99
6) Chloroethane	2.398	64	48569	14.505	ug/L	99
7) Trichlorofluoromethane	2.545	101	106403	14.134	ug/L	98
10) 1,1-Dichloroethene	3.043	96	51143	13.468	ug/L #	71
11) Carbon disulfide	3.069	76	136358	13.355	ug/L	99
12) Freon-113	3.085	101	54832	13.543	ug/L #	75
15) Methylene chloride	3.604	84	54332	12.510	ug/L	88
17) Acetone	3.641	43	11835	12.014	ug/L	96
18) trans-1,2-Dichloroethene	3.761	96	55081	12.965	ug/L	79
19) Methyl acetate	3.766	43	26016	10.974	ug/L #	91
21) Methyl tert-butyl ether	3.866	73	102894	10.428	ug/L	98
25) 1,1-Dichloroethane	4.354	63	100404	13.111	ug/L #	98
30) cis-1,2-Dichloroethene	4.873	96	63413	13.019	ug/L #	78
34) Cyclohexane	5.082	56	86904	12.758	ug/L	85
35) Chloroform	5.140	83	104406	13.515	ug/L	96
37) Carbon tetrachloride	5.287	117	89081	14.336	ug/L	97
40) 1,1,1-Trichloroethane	5.350	97	93136	13.577	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A28.D
 Acq On : 04 Aug 2023 04:42 pm
 Operator : VOA130:PID
 Sample : WG1811888-7,31,10,10,,A2
 Misc : WG1811888,ICAL20171
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 05 14:52:08 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
 Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone	5.434	43	13757	10.240	ug/L	99
45) Benzene	5.722	78	192911	12.730	ug/L	98
48) 1,2-Dichloroethane	5.921	62	66072	11.633	ug/L #	97
51) Methyl cyclohexane	6.320	83	74085	11.634	ug/L	88
52) Trichloroethene	6.320	95	69937	14.982	ug/L #	83
55) 1,2-Dichloropropane	6.870	63	49557	12.459	ug/L	97
58) Bromodichloromethane	6.939	83	70812	12.408	ug/L #	97
62) cis-1,3-Dichloropropene	7.636	75	65926	10.981	ug/L	89
65) Toluene	7.908	92	128803	10.737	ug/L	99
66) 4-Methyl-2-pentanone	8.338	58	9689	8.098	ug/L #	91
67) Tetrachloroethene	8.359	166	65211	11.868	ug/L #	90
69) trans-1,3-Dichloropropene	8.386	75	56859	9.155	ug/L	87
72) 1,1,2-Trichloroethane	8.574	83	31486	9.764	ug/L	91
73) Chlorodibromomethane	8.784	129	52703	10.241	ug/L	96
75) 1,2-Dibromoethane	9.062	107	38005	9.570	ug/L	97
77) 2-Hexanone	9.356	43	18009	7.648	ug/L	99
78) Chlorobenzene	9.723	112	151349	10.784	ug/L #	87
79) Ethylbenzene	9.770	91	243055	10.488	ug/L	92
81) p/m Xylene	9.959	106	208204	21.749	ug/L	83
82) o Xylene	10.488	106	197061	20.852	ug/L	86
83) Styrene	10.551	104	323362	21.085	ug/L	87
85) Bromoform	10.572	173	32057	9.402	ug/L	98
87) Isopropylbenzene	10.871	105	249885	9.760	ug/L	93
90) n-Propylbenzene	11.343	91	289220	9.841	ug/L #	89
92) 1,1,2,2-Tetrachloroethane	11.416	83	44894	10.131	ug/L #	98
95) 1,3,5-Trimethylbenzene	11.568	105	209587	9.900	ug/L	92
99) tert-Butylbenzene	11.904	119	189155	9.877	ug/L	86
102) 1,2,4-Trimethylbenzene	11.982	105	201651	9.705	ug/L	91
103) sec-Butylbenzene	12.092	105	263909	9.878	ug/L	88
104) p-Isopropyltoluene	12.250	119	231078	9.838	ug/L	93
105) 1,3-Dichlorobenzene	12.307	146	141634	10.312	ug/L	95
106) 1,4-Dichlorobenzene	12.402	146	142194	10.332	ug/L	95
108) n-Butylbenzene	12.674	91	179787	9.762	ug/L #	94
109) 1,2-Dichlorobenzene	12.821	146	132885	10.167	ug/L	95
111) 1,2-Dibromo-3-chloropr...	13.597	155	8283	9.088	ug/L	94
114) 1,2,4-Trichlorobenzene	14.232	180	84310	10.460	ug/L	98
115) Naphthalene	14.525	128	163582	8.918	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
Data File : V30230804A28.D
Acq On : 04 Aug 2023 04:42 pm
Operator : VOA130:PID
Sample : WG1811888-7,31,10,10,,A2
Misc : WG1811888,ICAL20171
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 05 14:52:08 2023
Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Jul 14 09:22:26 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2023\230804A\V30230804A01.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

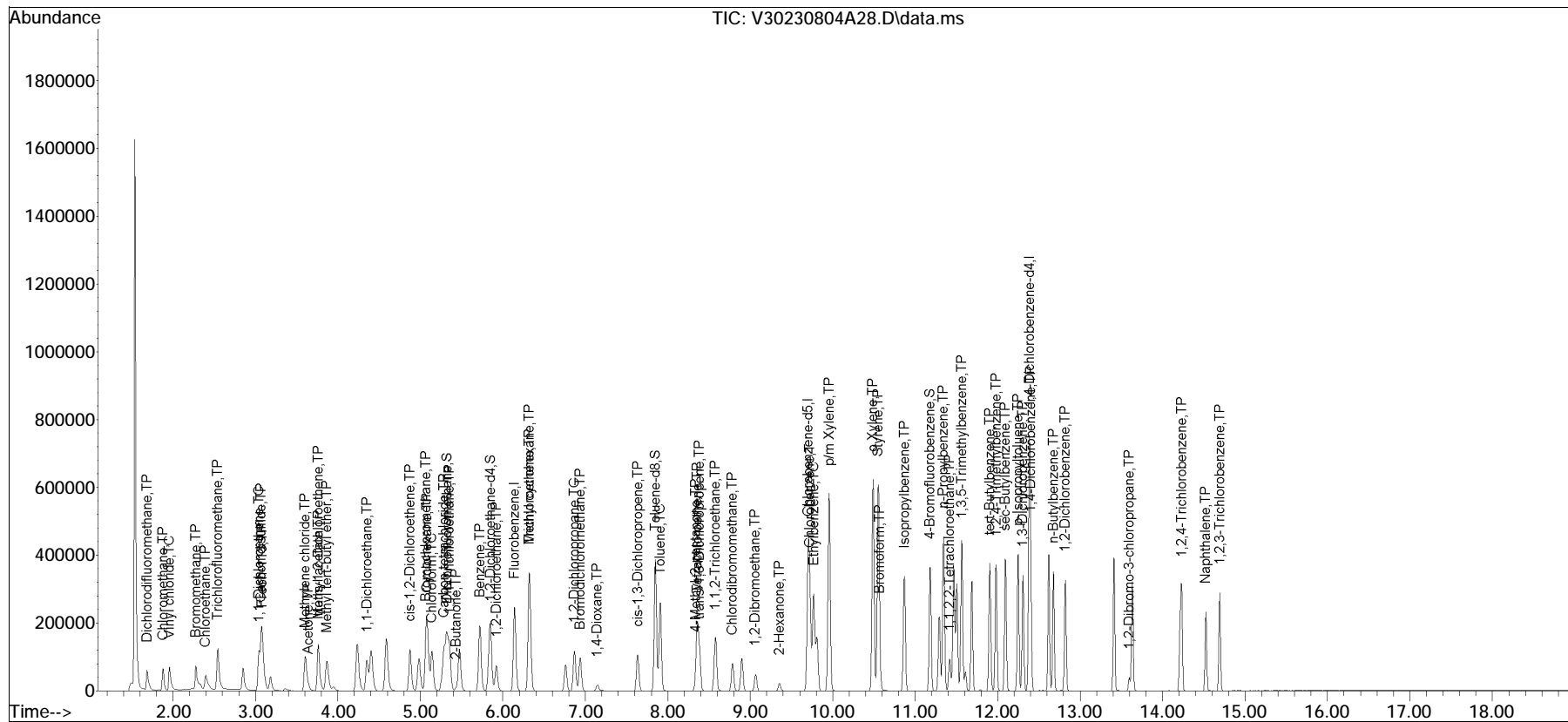
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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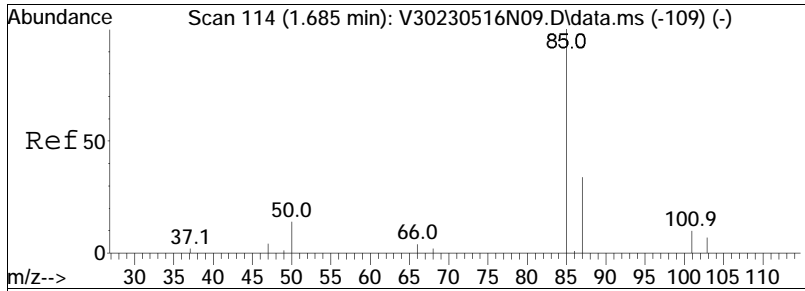
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2023\230804A\
 Data File : V30230804A28.D
 Acq On : 04 Aug 2023 04:42 pm
 Operator : VOA130:PID
 Sample : WG1811888-7,31,10,10,,A2
 Misc : WG1811888,ICAL20171
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 05 14:52:08 2023
 Quant Method : K:\VOA130\2023\230804A\V130_230713N_8260D.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Fri Jul 14 09:22:26 2023
 Response via : Initial Calibration

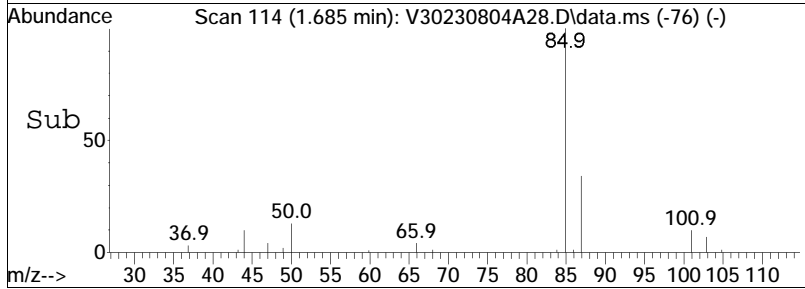
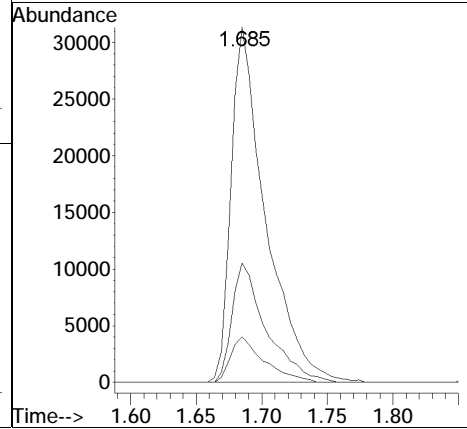
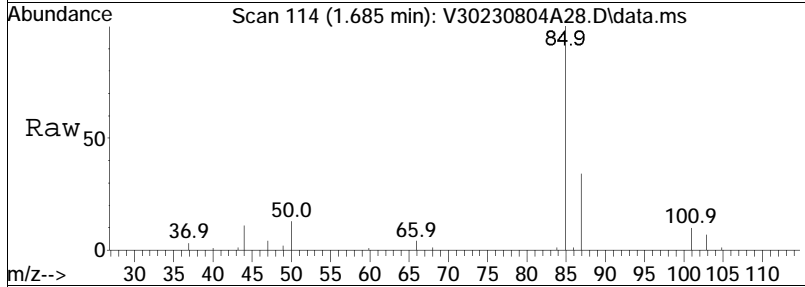
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0804A01.D•

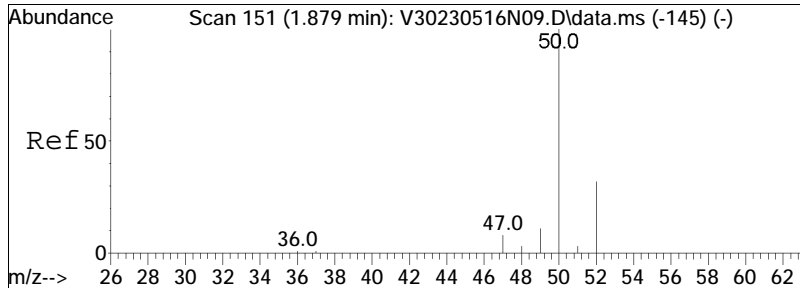




#2
 Dichlorodifluoromethane
 Concen: 10.96 ug/L
 RT: 1.685 min Scan# 114
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

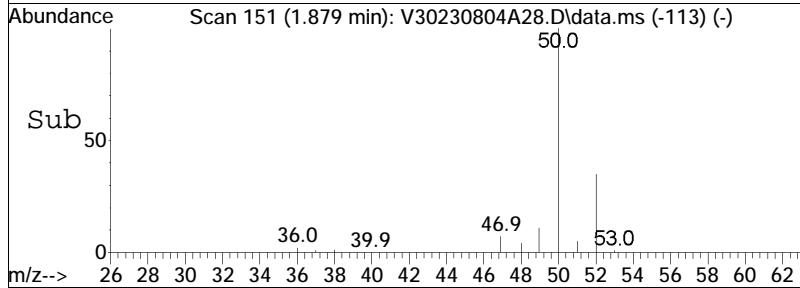
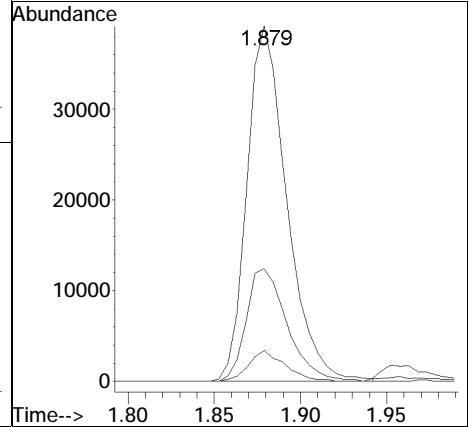
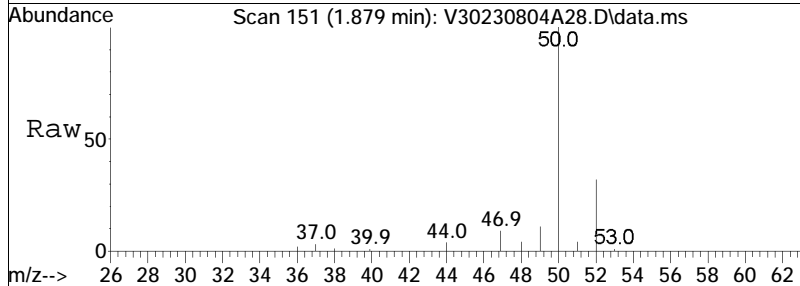
Tgt Ion	Resp	Lower	Upper
85	57523		
87	33.2	20.2	42.0
50	12.5	10.1	20.9

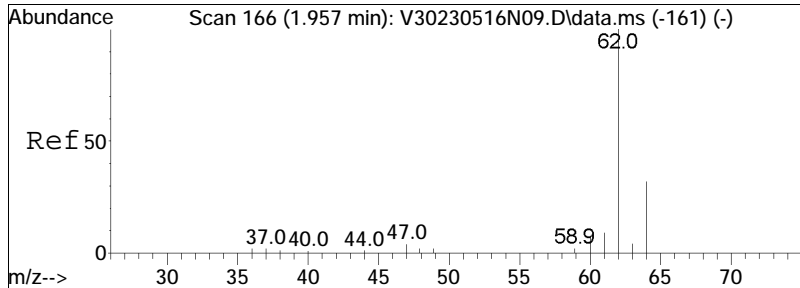




#3
 Chloromethane
 Concen: 13.14 ug/L
 RT: 1.879 min Scan# 151
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

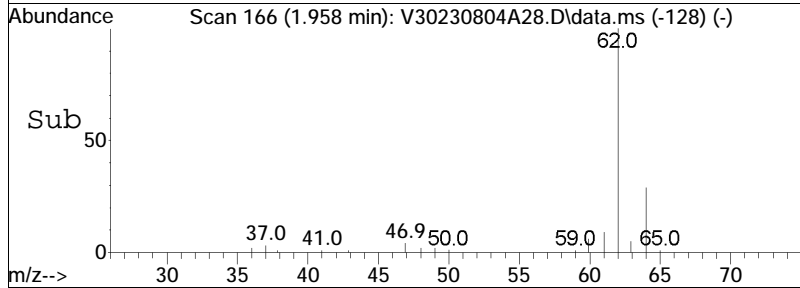
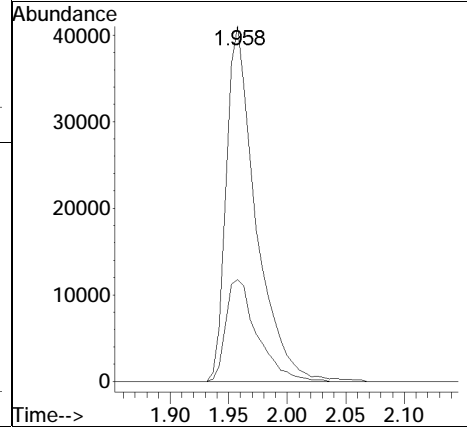
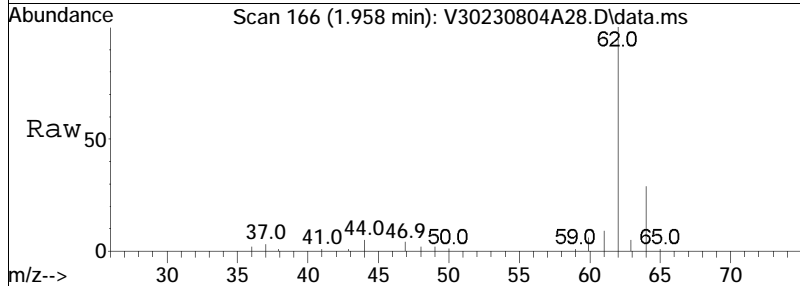
Tgt Ion	Resp	Lower	Upper
50	100		
52	32.5	25.1	37.7
47	8.0	6.5	9.7

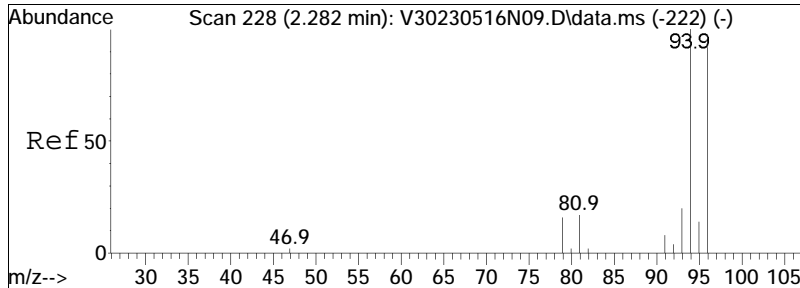




#4
 Vinyl chloride
 Concen: 13.61 ug/L
 RT: 1.958 min Scan# 166
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

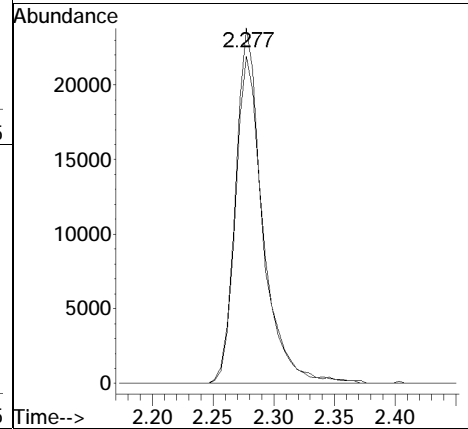
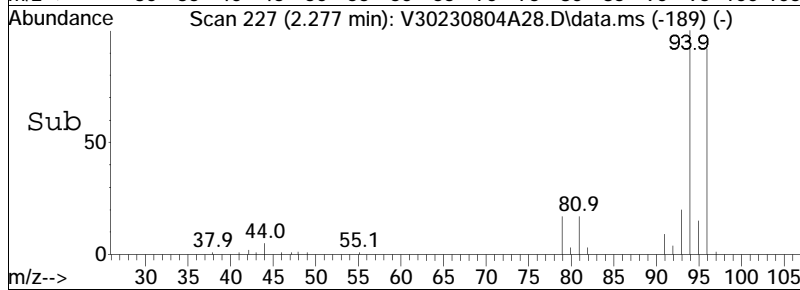
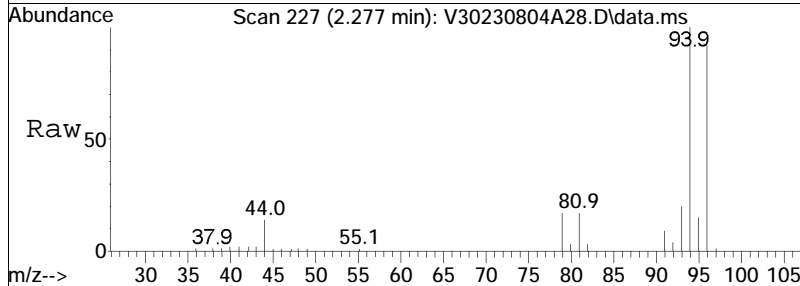
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
62	100		
64	30.5	25.7	38.5

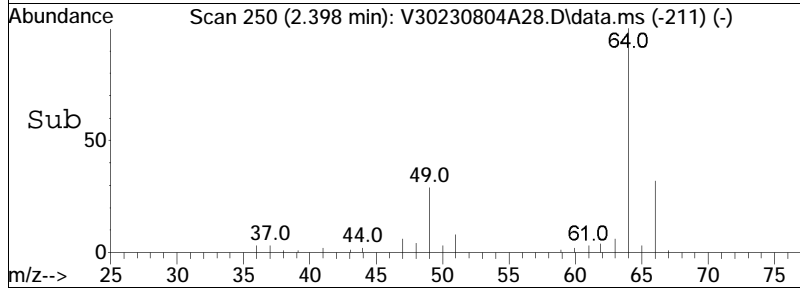
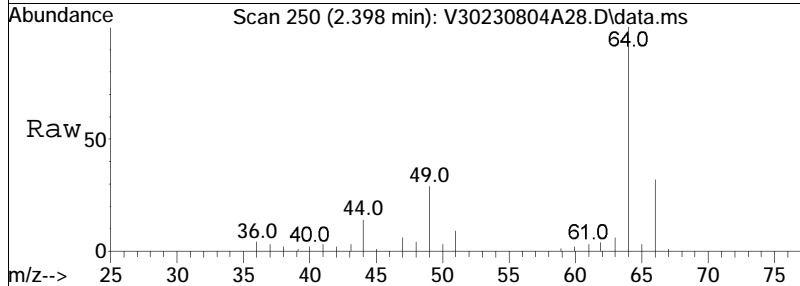
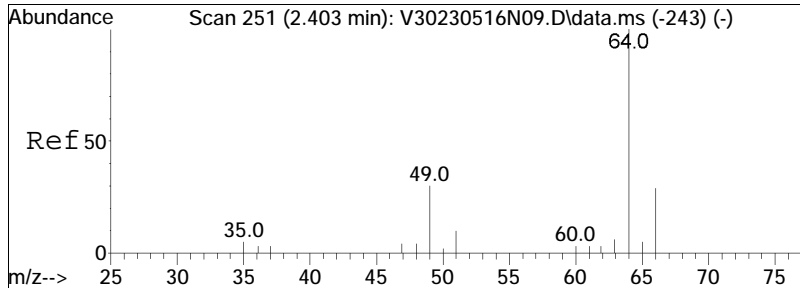




#5
 Bromomethane
 Concen: 11.53 ug/L
 RT: 2.277 min Scan# 227
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

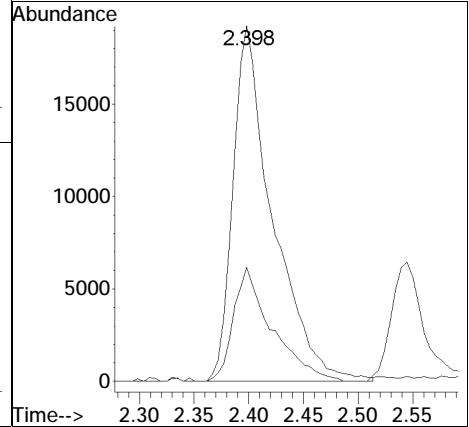
Tgt Ion: 94 Resp: 37221
 Ion Ratio Lower Upper
 94 100
 96 93.3 73.7 110.5

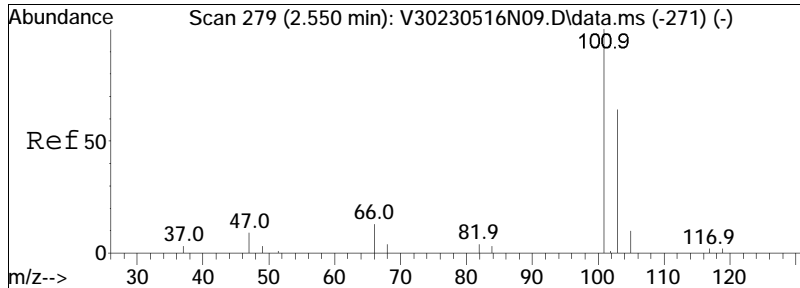




#6
 Chloroethane
 Concen: 14.51 ug/L
 RT: 2.398 min Scan# 250
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

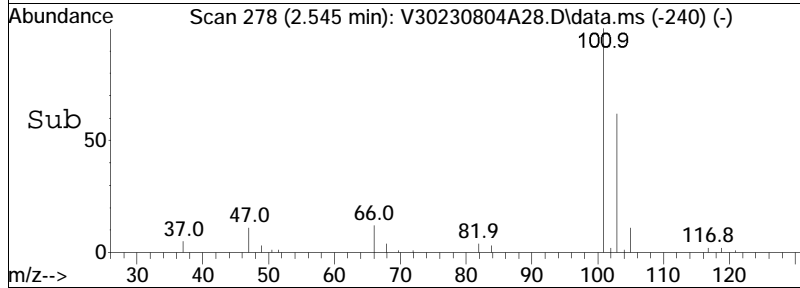
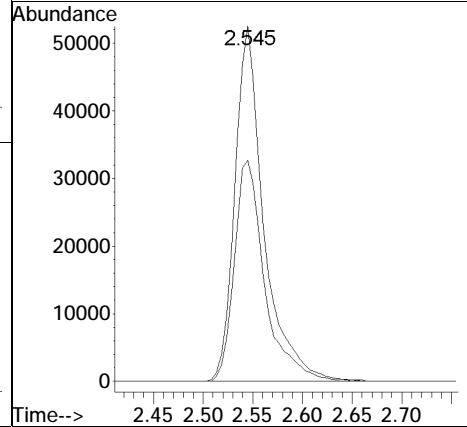
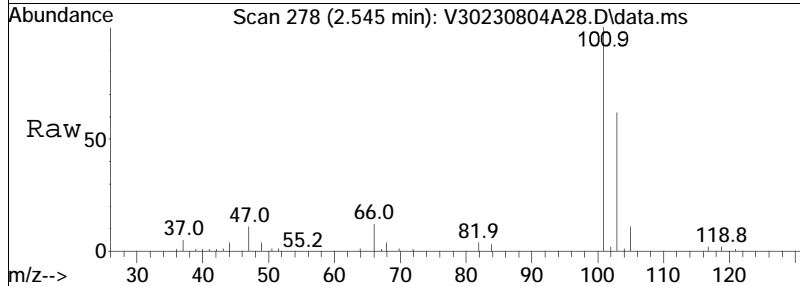
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
64	100		
66	31.2	25.3	37.9

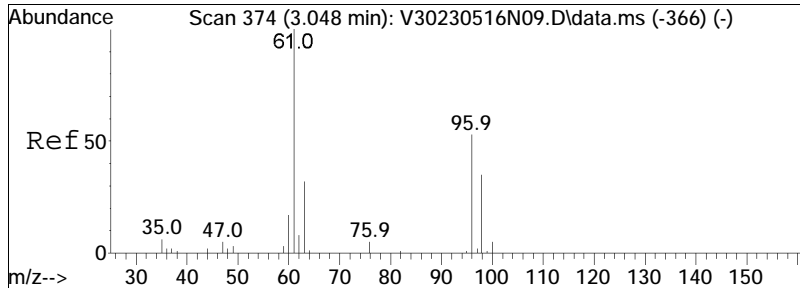




#7
 Trichlorofluoromethane
 Concen: 14.13 ug/L
 RT: 2.545 min Scan# 278
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

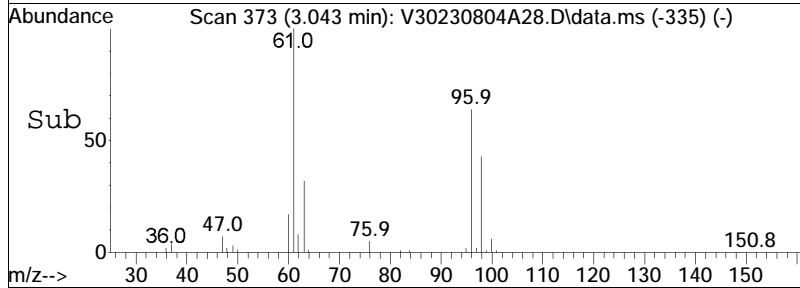
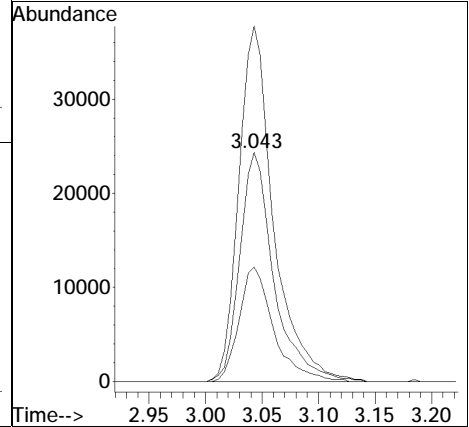
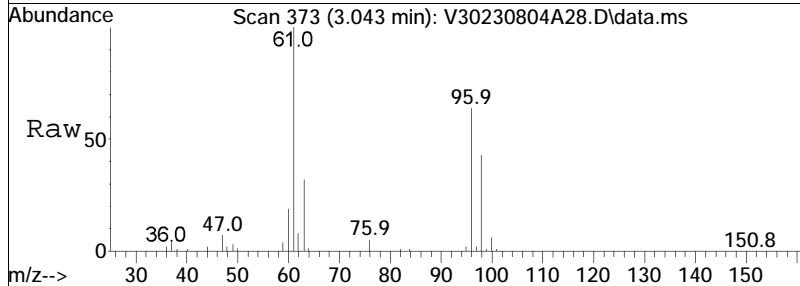
Tgt Ion	Resp	Lower	Upper
101	106403		
101	100		
103	65.4	51.0	76.4

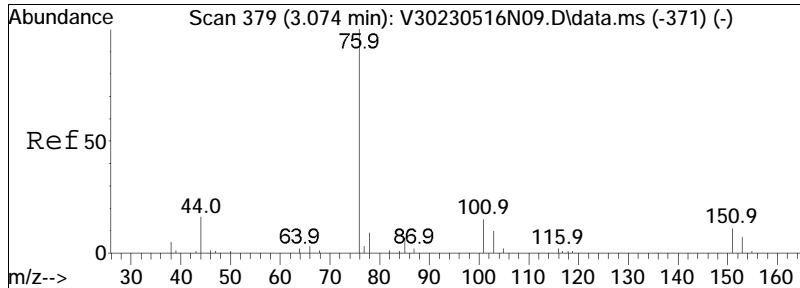




#10
 1,1-Dichloroethene
 Concen: 13.47 ug/L
 RT: 3.043 min Scan# 373
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

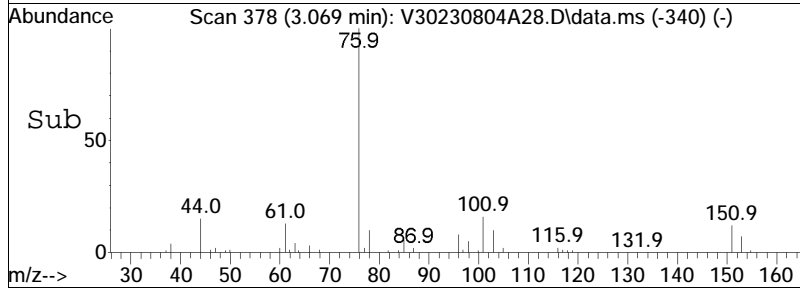
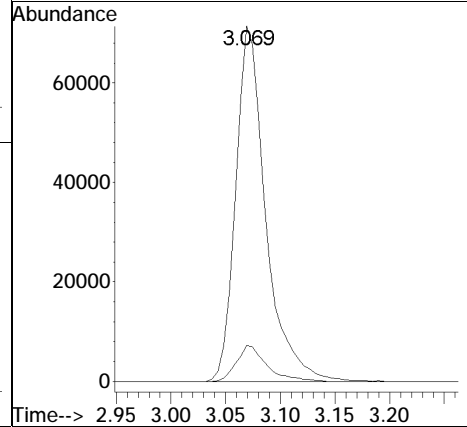
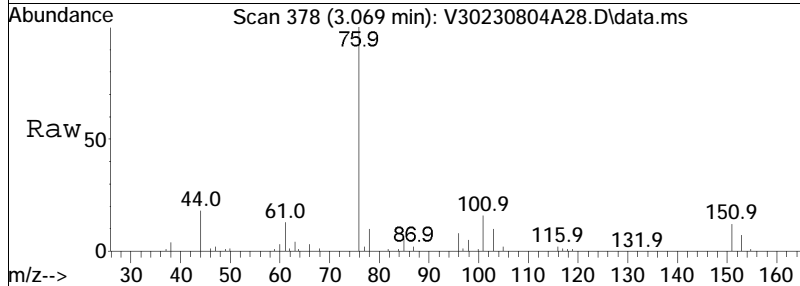
Tgt Ion	Resp	Lower	Upper
96	51143		
96	100		
61	157.7	165.5	248.3#
63	50.6	51.9	77.9#

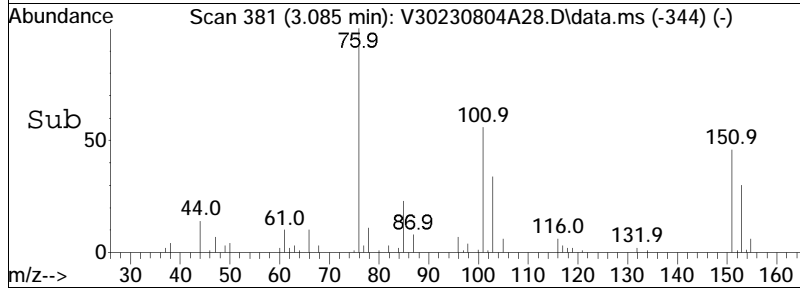
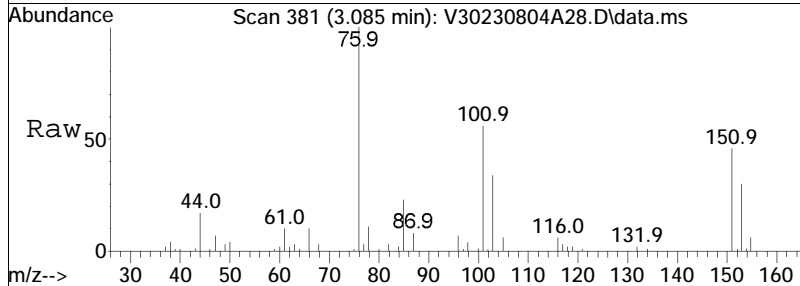
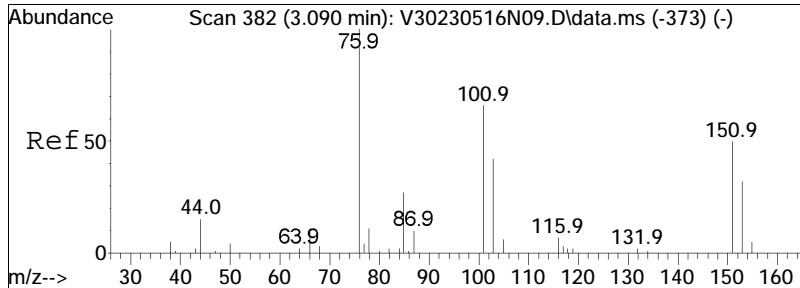




#11
 Carbon disulfide
 Concen: 13.36 ug/L
 RT: 3.069 min Scan# 378
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

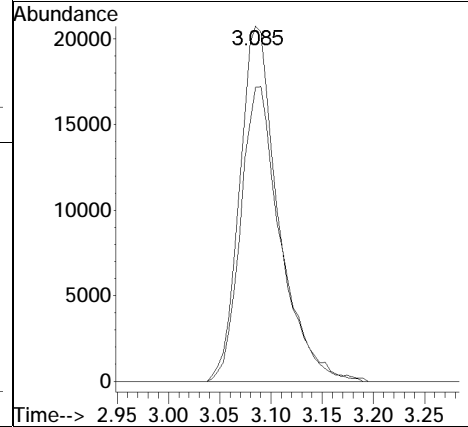
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
76	100		
78	10.2	6.4	13.4

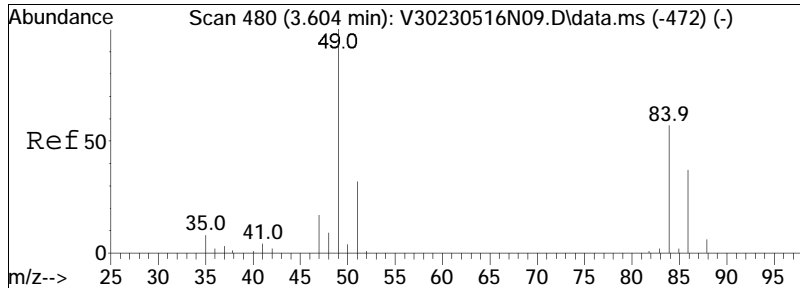




#12
 Freon-113
 Concen: 13.54 ug/L
 RT: 3.085 min Scan# 381
 Delta R.T. -0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

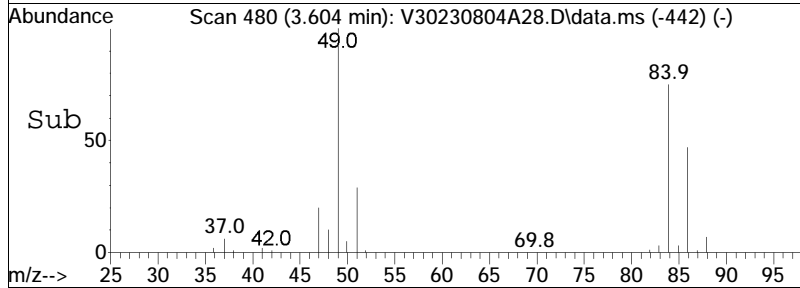
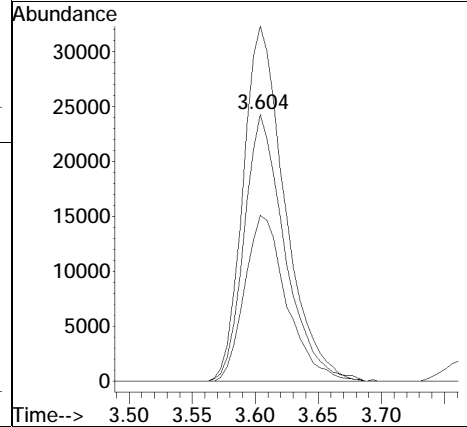
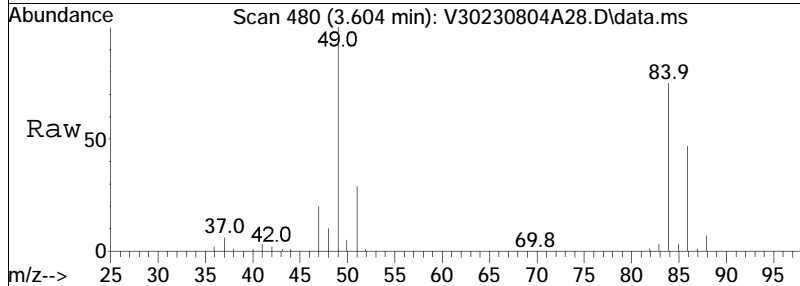
Tgt Ion: 101 Resp: 54832
 Ion Ratio Lower Upper
 101 100
 151 84.7 51.9 77.9#

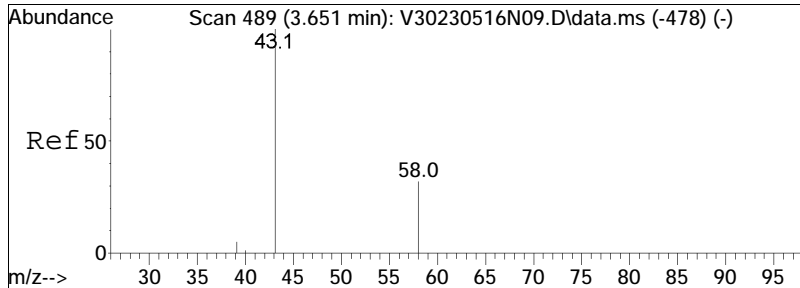




#15
 Methylene chloride
 Concen: 12.51 ug/L
 RT: 3.604 min Scan# 480
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

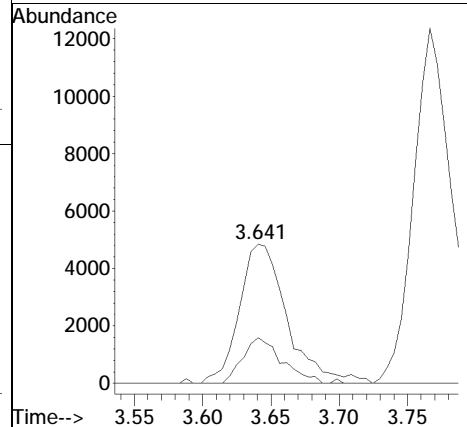
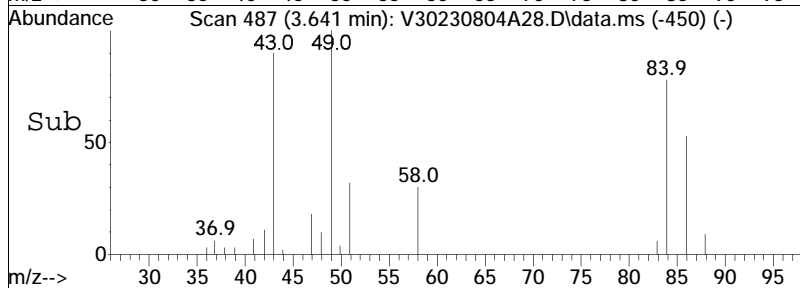
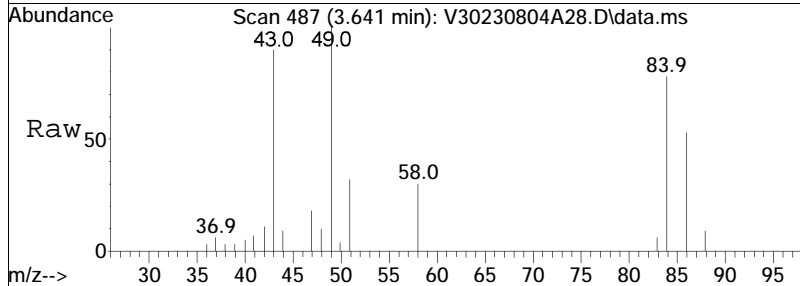
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
84	100		
86	64.7	41.7	86.5
49	137.4	103.9	215.9

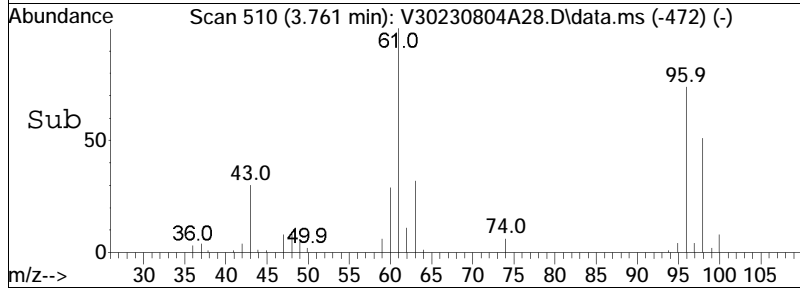
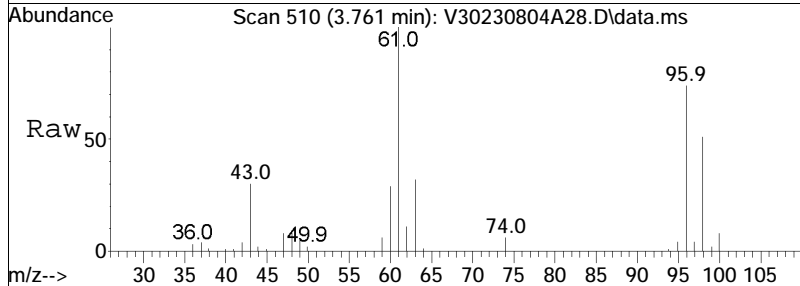
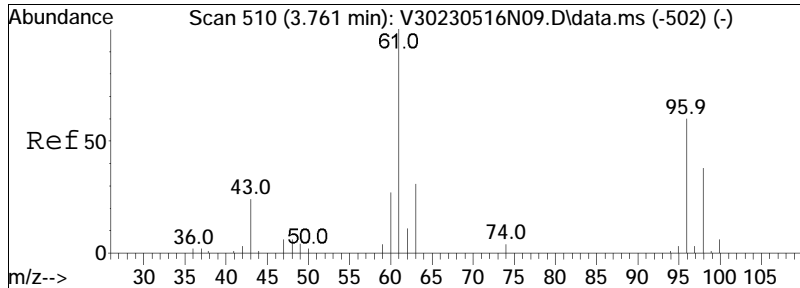




#17
 Acetone
 Concen: 12.01 ug/L
 RT: 3.641 min Scan# 487
 Delta R.T. -0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

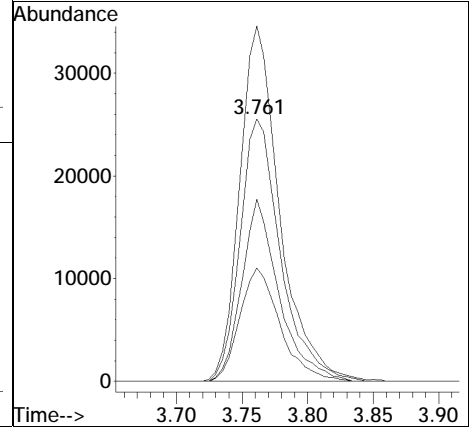
Tgt Ion:	Resp:	Lower	Upper
43	11835		
58	27.1	20.1	30.1

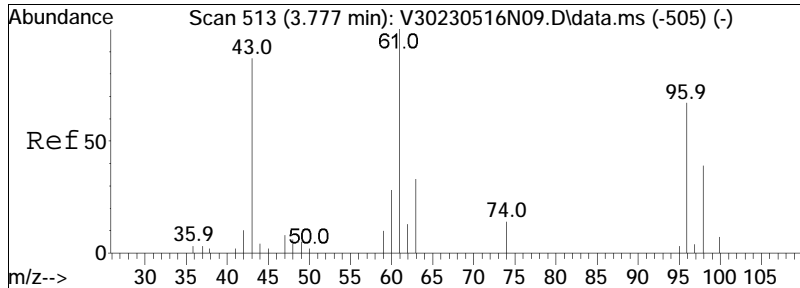




#18
 trans-1,2-Dichloroethene
 Concen: 12.96 ug/L
 RT: 3.761 min Scan# 510
 Delta R.T. 0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

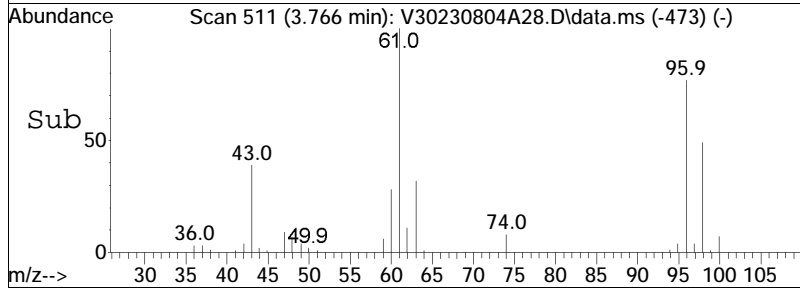
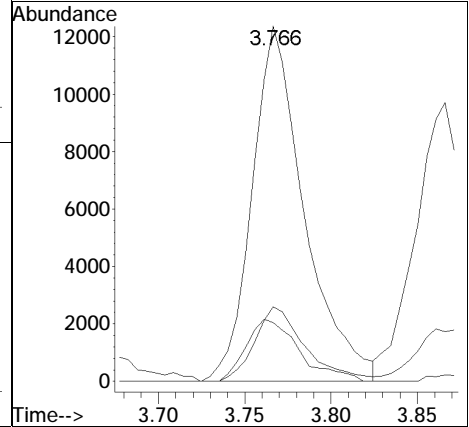
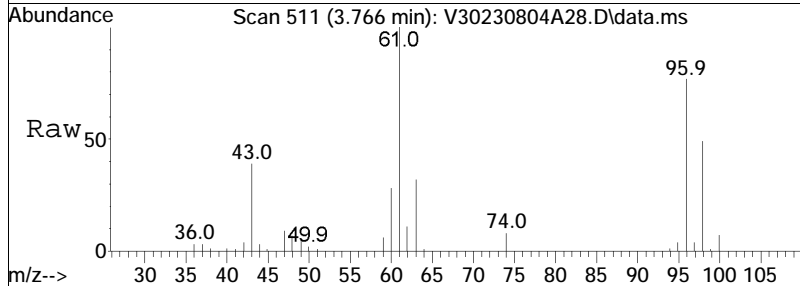
Tgt Ion:	96	Resp:	55081
Ion Ratio	Lower	Upper	
96	100		
61	133.9	113.6	236.0
98	64.0	40.8	84.8
63	43.1	36.5	75.7

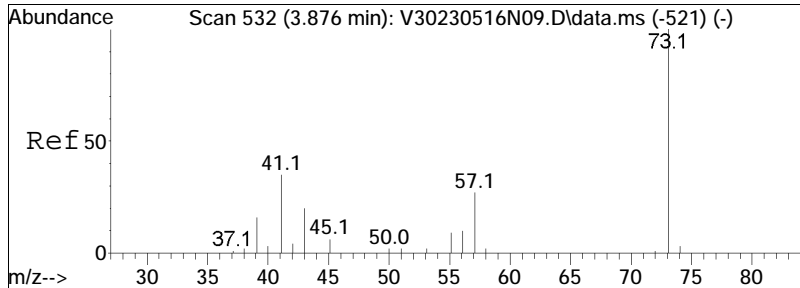




#19
 Methyl acetate
 Concen: 10.97 ug/L
 RT: 3.766 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

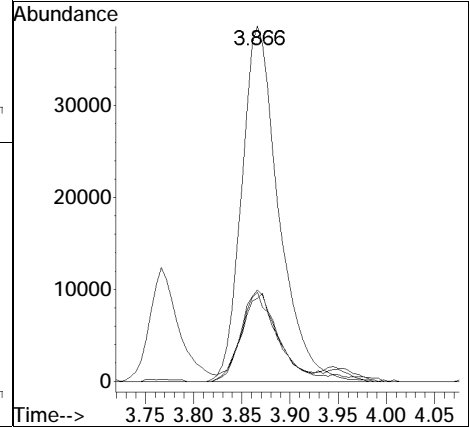
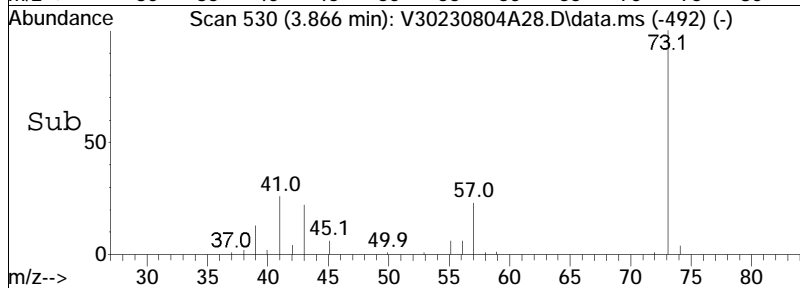
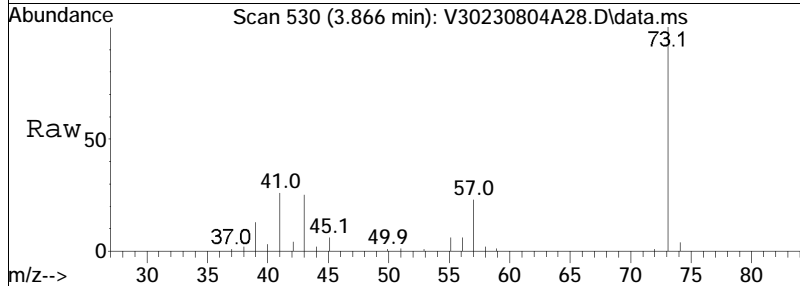
Tgt Ion	Resp	Lower	Upper
43	100		
74	20.4	14.6	22.0
59	17.9	9.3	13.9#

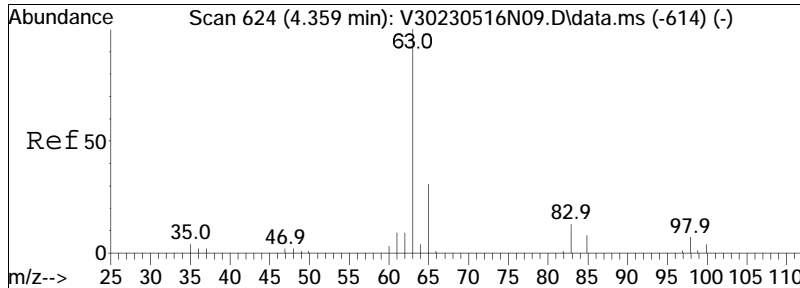




#21
 Methyl tert-butyl ether
 Concen: 10.43 ug/L
 RT: 3.866 min Scan# 530
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

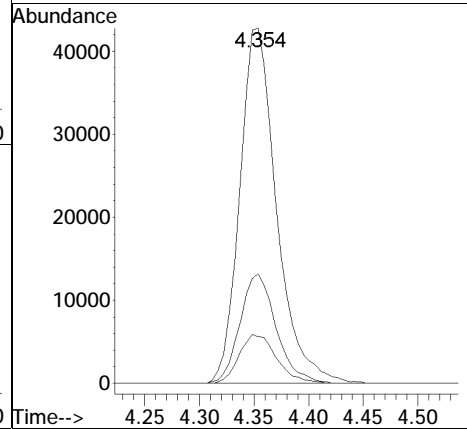
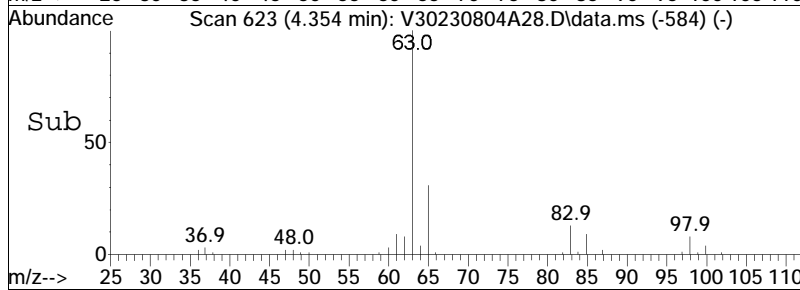
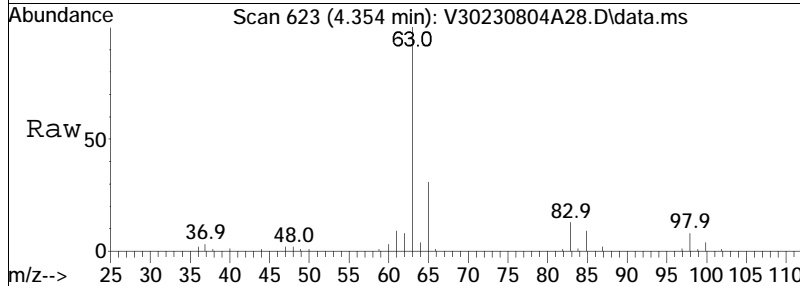
Tgt Ion	Resp	Lower	Upper
73	102894		
57	24.4	15.5	32.1
43	24.5	16.6	34.6
41	25.8	17.2	35.6

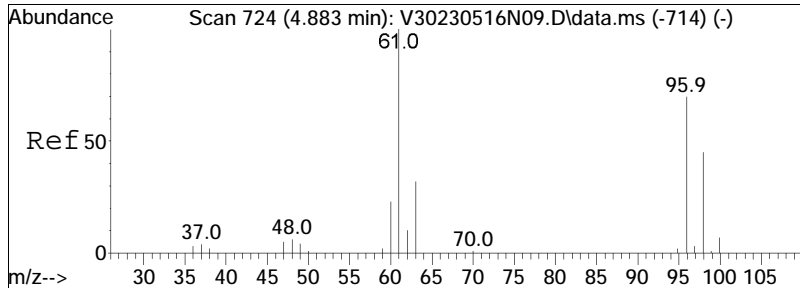




#25
 1,1-Dichloroethane
 Concen: 13.11 ug/L
 RT: 4.354 min Scan# 623
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

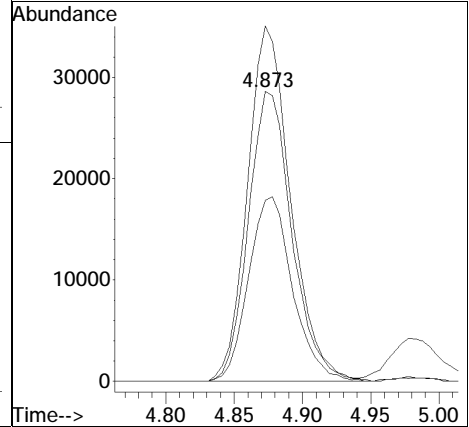
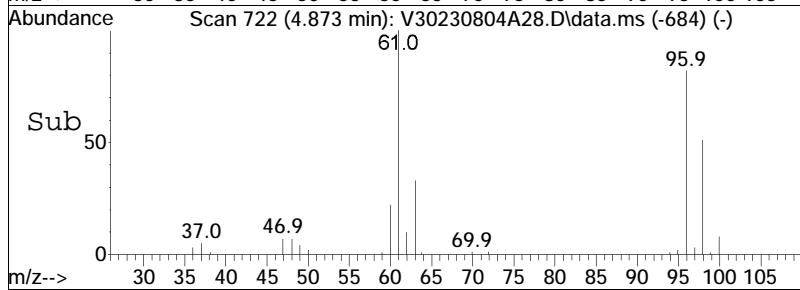
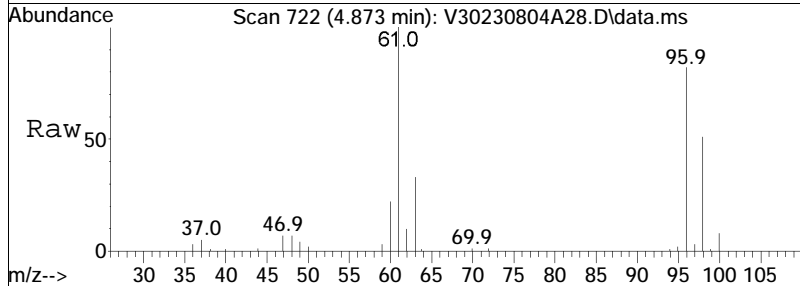
Tgt Ion	Resp	Lower	Upper
63	100		
65	30.3	24.5	36.7
83	14.0	8.9	13.3#

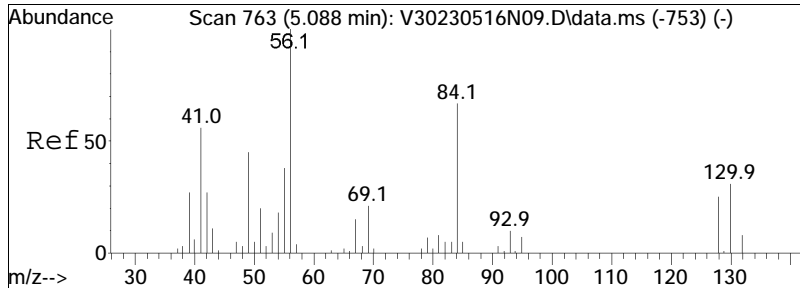




#30
 cis-1,2-Dichloroethene
 Concen: 13.02 ug/L
 RT: 4.873 min Scan# 722
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

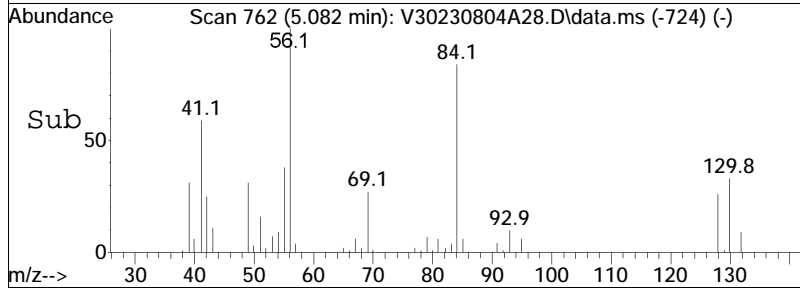
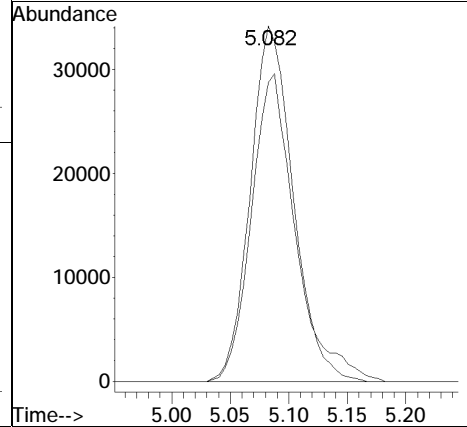
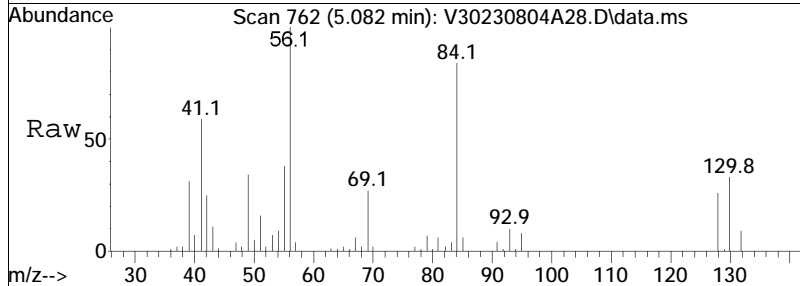
Tgt Ion	Resp	Lower	Upper
96	100		
61	121.4	129.3	193.9#
98	64.5	51.4	77.2

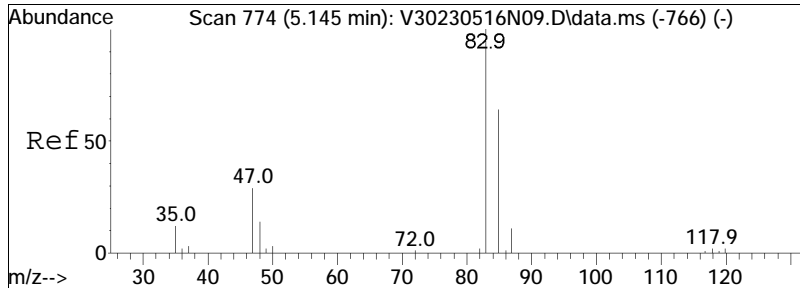




#34
 Cyclohexane
 Concen: 12.76 ug/L
 RT: 5.082 min Scan# 762
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

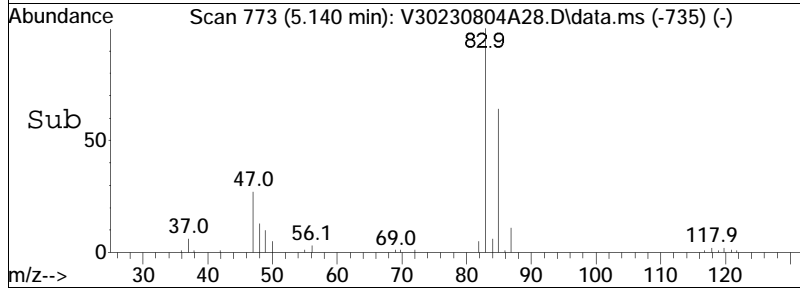
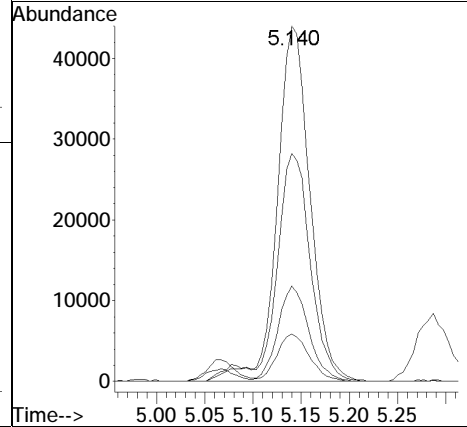
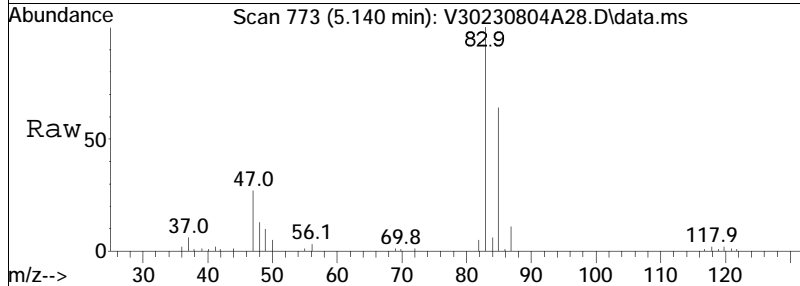
Tgt Ion	Resp	Lower	Upper
56	100		
84	89.4	49.9	103.5

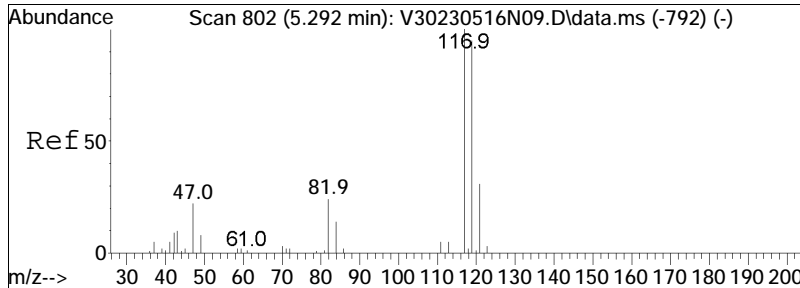




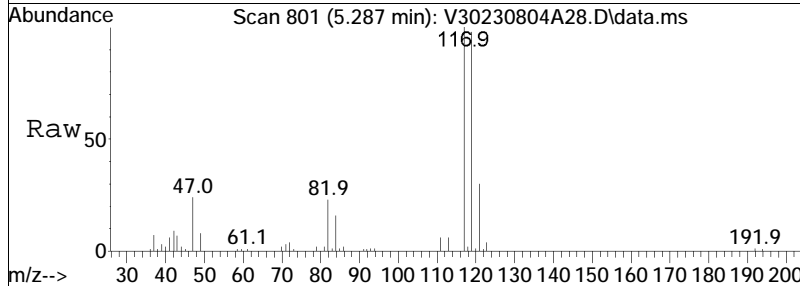
#35
 Chloroform
 Concen: 13.52 ug/L
 RT: 5.140 min Scan# 773
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

Tgt Ion	Resp	Lower	Upper
83	104406		
85	62.8	41.4	86.0
47	25.4	20.5	42.5
48	13.3	9.9	20.5

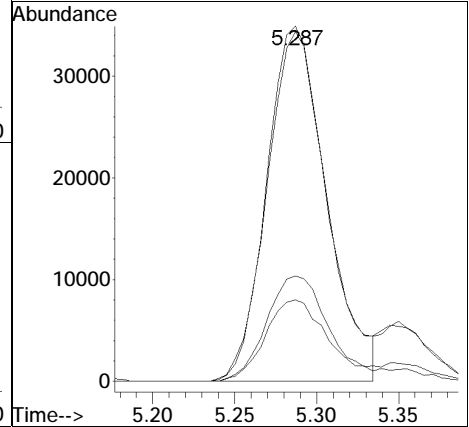
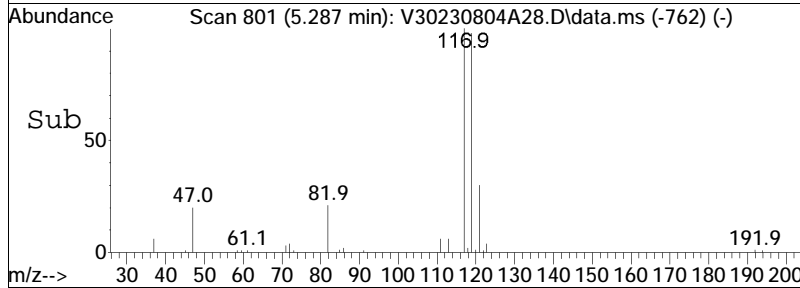


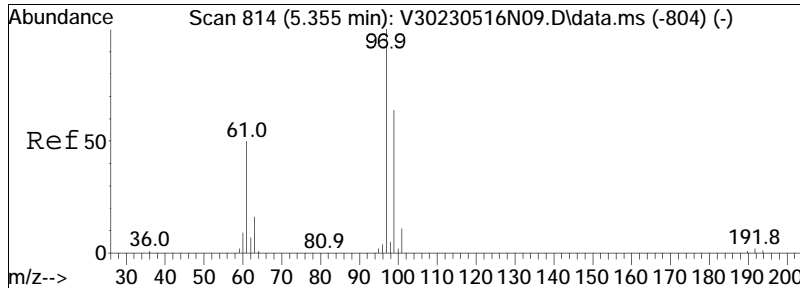


#37
 Carbon tetrachloride
 Concen: 14.34 ug/L
 RT: 5.287 min Scan# 801
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm



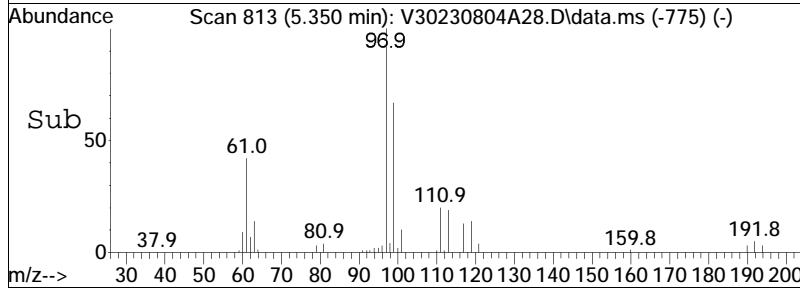
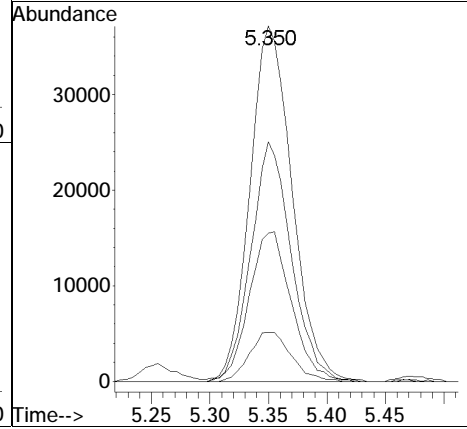
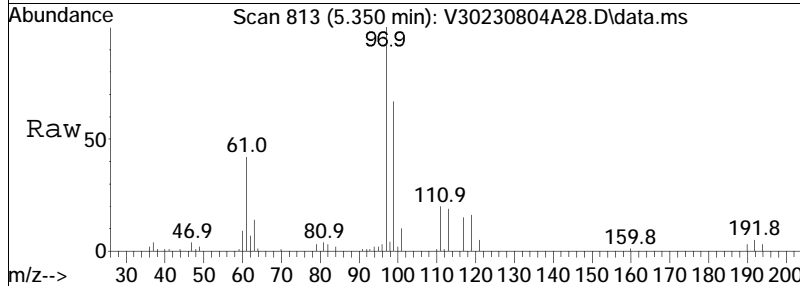
Tgt Ion	Resp	Lower	Upper
117	89081		
117	100		
119	97.8	62.0	128.8
121	31.2	19.6	40.6
82	26.9	18.8	39.0

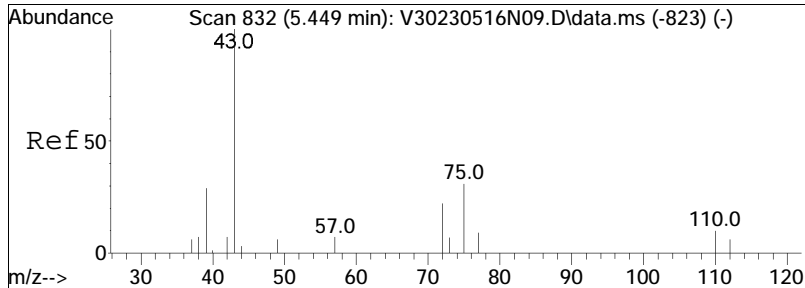




#40
 1,1,1-Trichloroethane
 Concen: 13.58 ug/L
 RT: 5.350 min Scan# 813
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

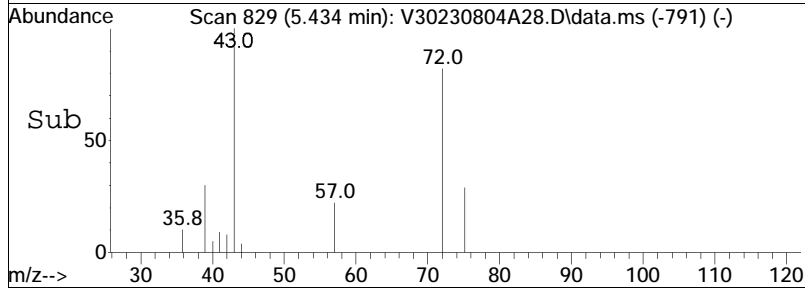
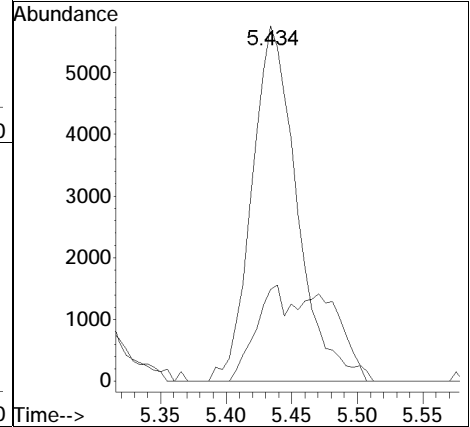
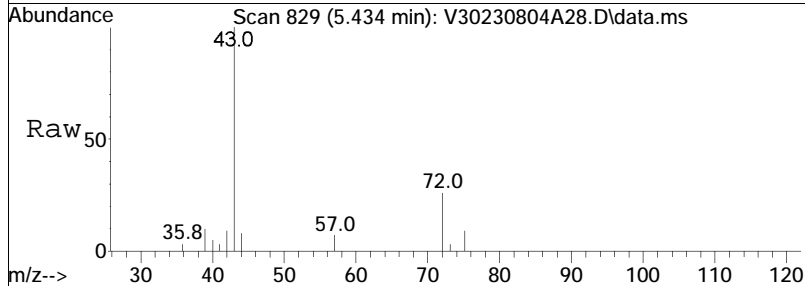
Tgt Ion	Resp	Lower	Upper
97	93136		
97	100		
99	64.7	40.6	84.4
61	42.3	35.0	72.8
63	13.7	11.1	23.0

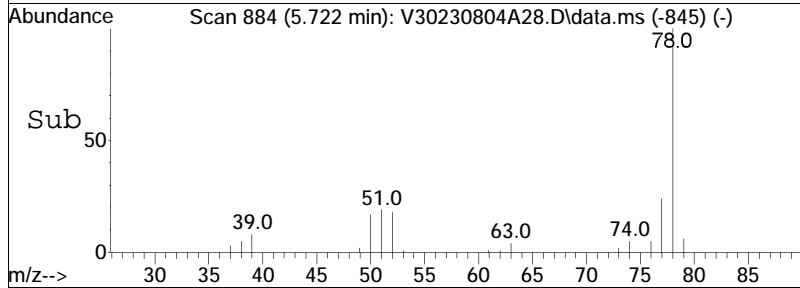
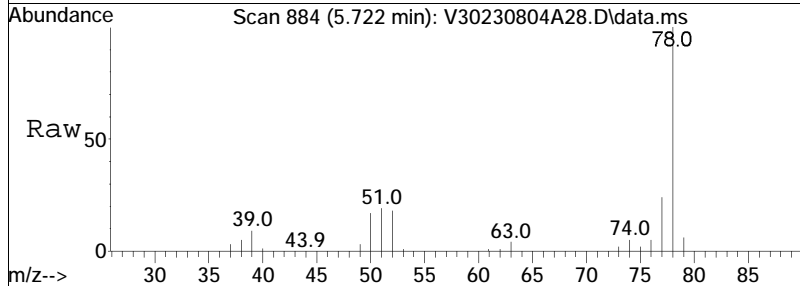
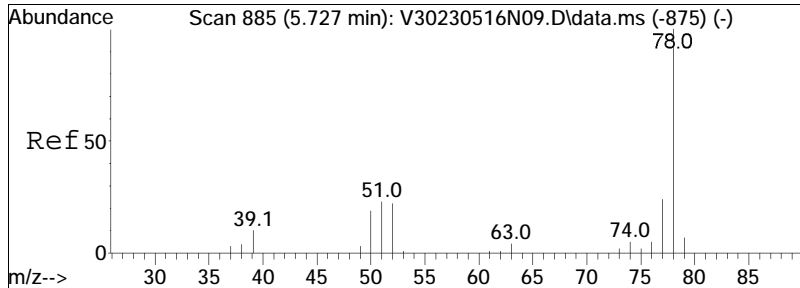




#42
 2-Butanone
 Concen: 10.24 ug/L
 RT: 5.434 min Scan# 829
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

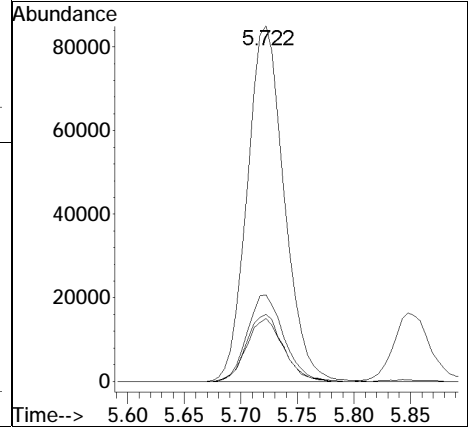
Tgt Ion: 43 Resp: 13757
 Ion Ratio Lower Upper
 43 100
 72 22.5 18.2 27.4

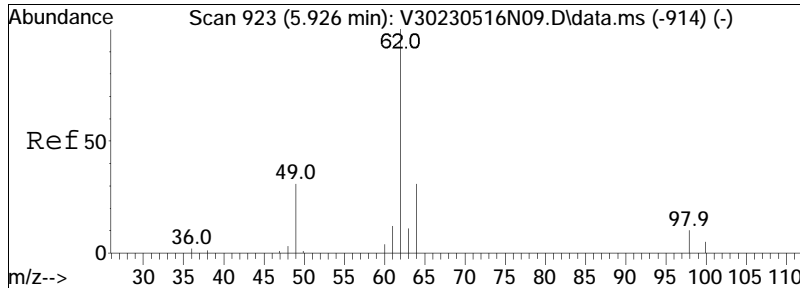




#45
Benzene
Concen: 12.73 ug/L
RT: 5.722 min Scan# 884
Delta R.T. 0.005 min
Lab File: V30230804A28.D
Acq: 04 Aug 2023 04:42 pm

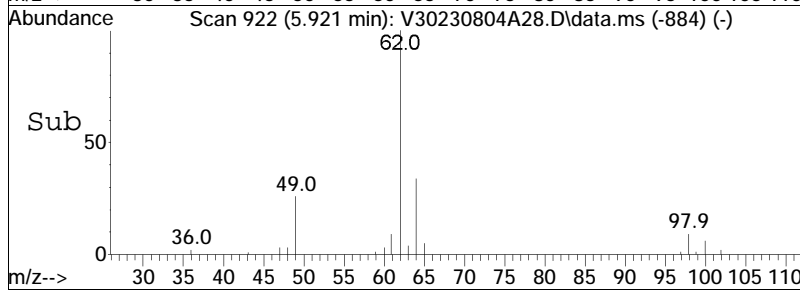
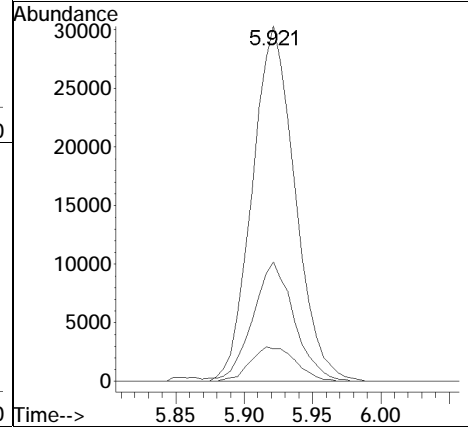
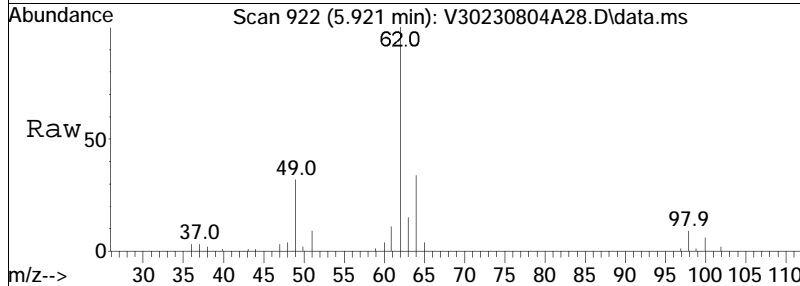
Tgt Ion	Resp	Lower	Upper
78	192911		
77	24.1	15.6	32.4
51	18.7	12.9	26.7
52	17.5	12.4	25.7

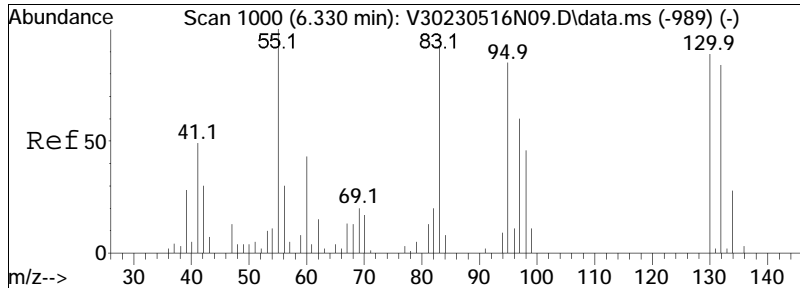




#48
 1,2-Dichloroethane
 Concen: 11.63 ug/L
 RT: 5.921 min Scan# 922
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

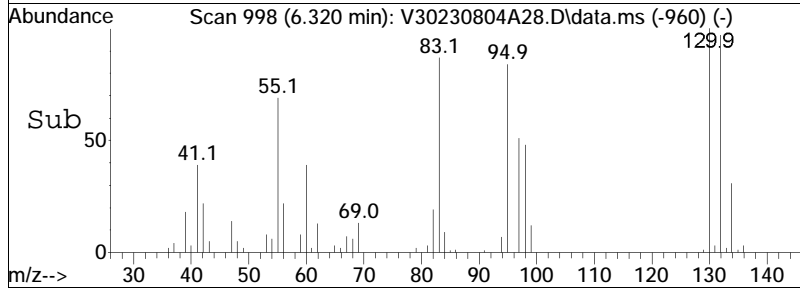
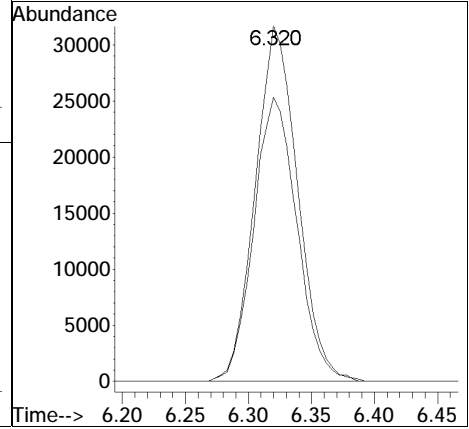
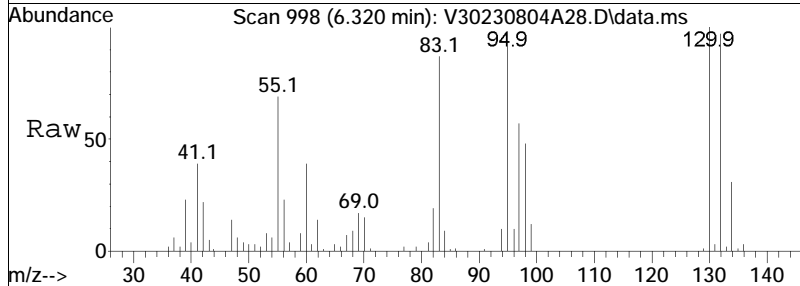
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.5	38.3
98	10.3	5.5	8.3#

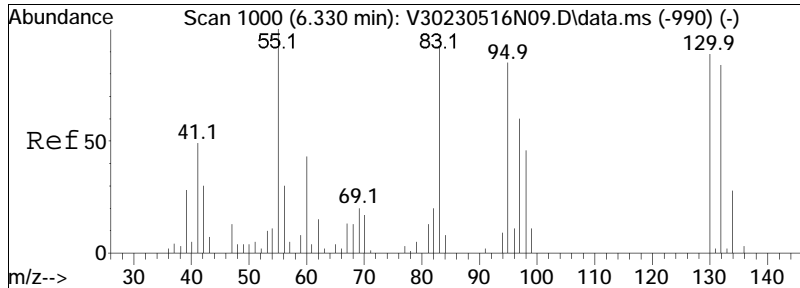




#51
 Methyl cyclohexane
 Concen: 11.63 ug/L
 RT: 6.320 min Scan# 998
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

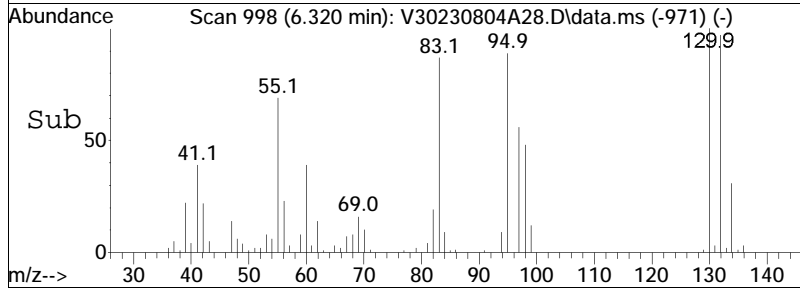
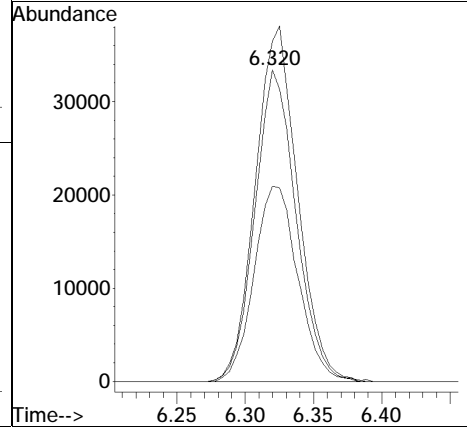
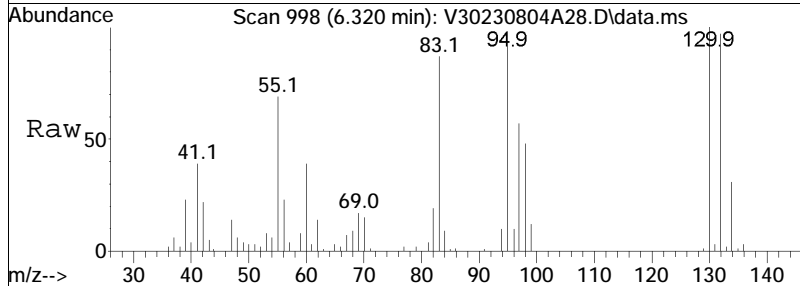
Tgt Ion	Resp	Lower	Upper
83	100		
55	81.7	74.6	112.0

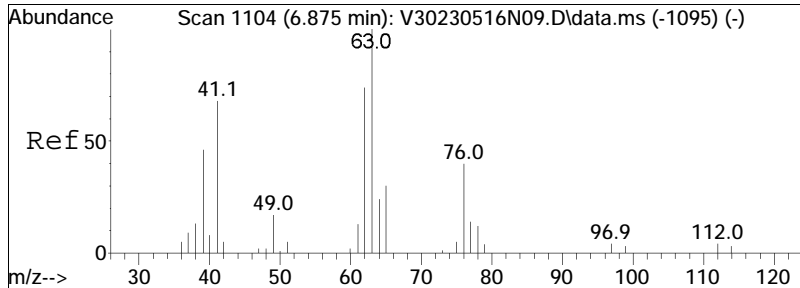




#52
 Trichloroethene
 Concen: 14.98 ug/L
 RT: 6.320 min Scan# 998
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

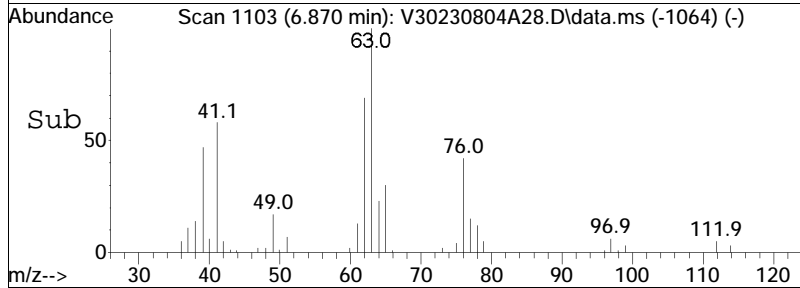
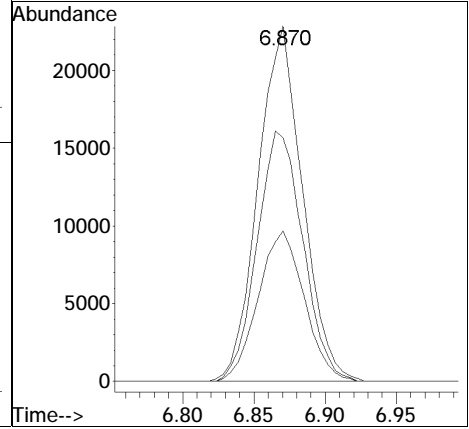
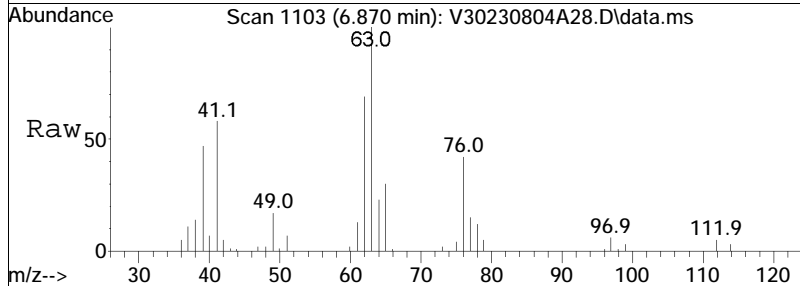
Tgt Ion	Resp	Lower	Upper
95	69937		
95	100		
97	66.9	53.8	80.6
130	117.2	71.4	107.0#

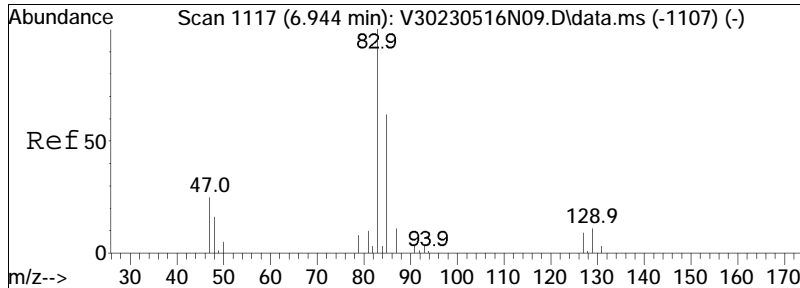




#55
 1,2-Dichloropropane
 Concen: 12.46 ug/L
 RT: 6.870 min Scan# 1103
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

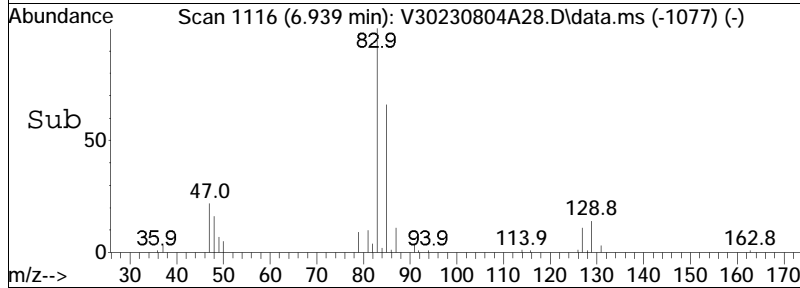
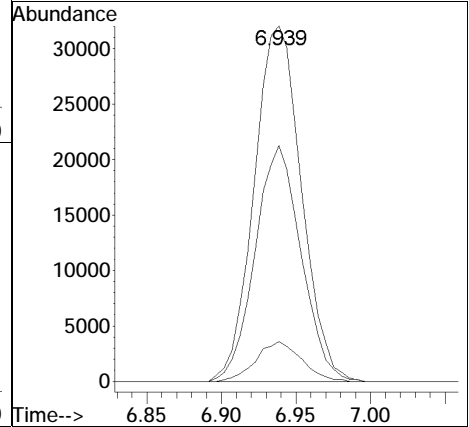
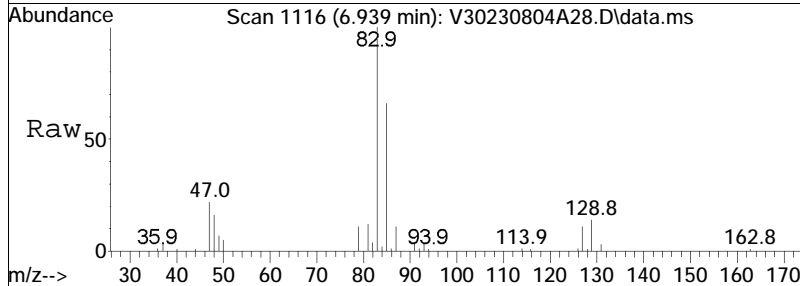
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
63	100		
62	72.6	58.1	87.1
76	43.9	30.4	45.6

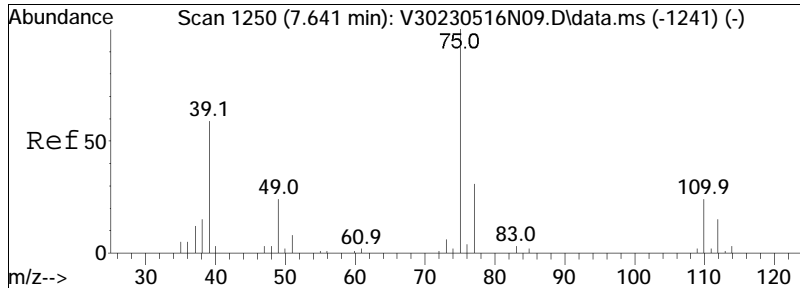




#58
 Bromodichloromethane
 Concen: 12.41 ug/L
 RT: 6.939 min Scan# 1116
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

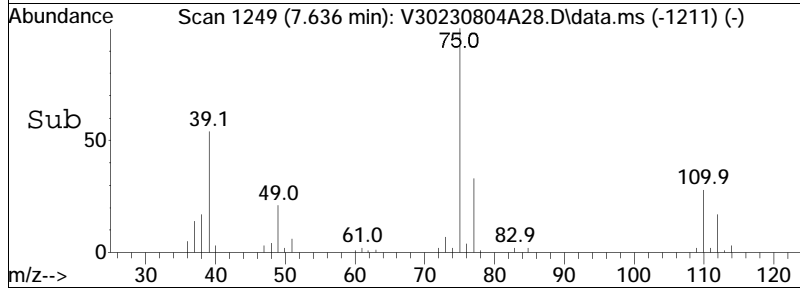
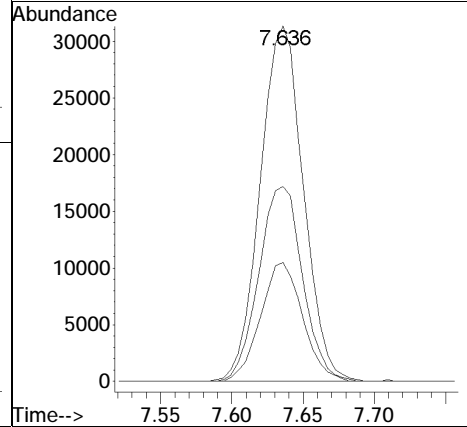
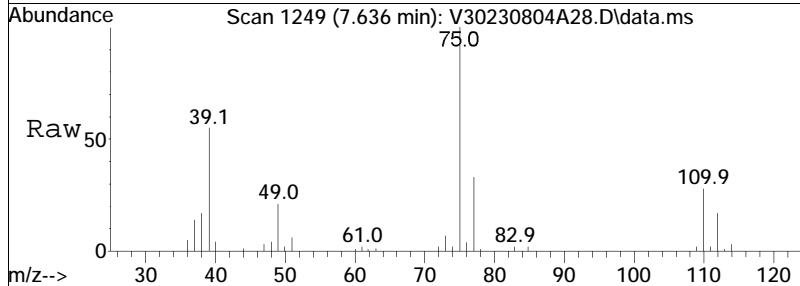
Tgt Ion	Resp	Lower	Upper
83	100		
85	64.4	50.2	75.2
127	10.8	5.2	7.8#

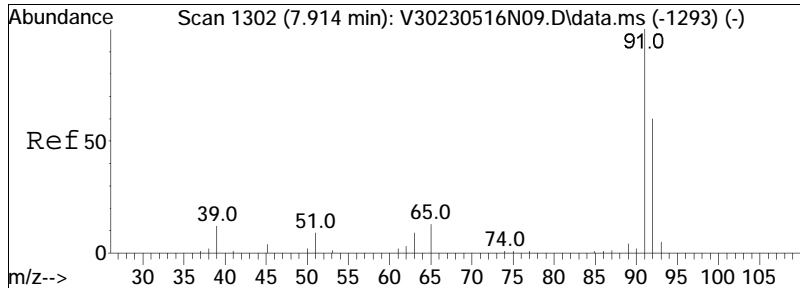




#62
 cis-1,3-Dichloropropene
 Concen: 10.98 ug/L
 RT: 7.636 min Scan# 1249
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

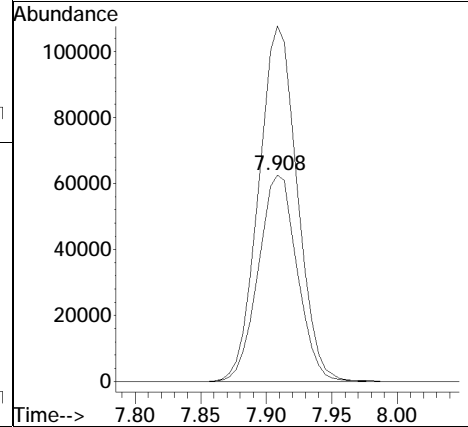
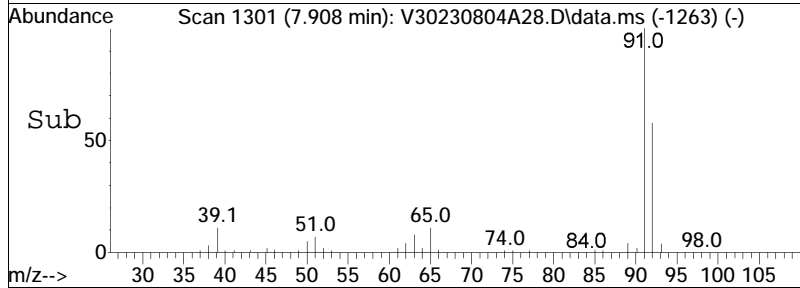
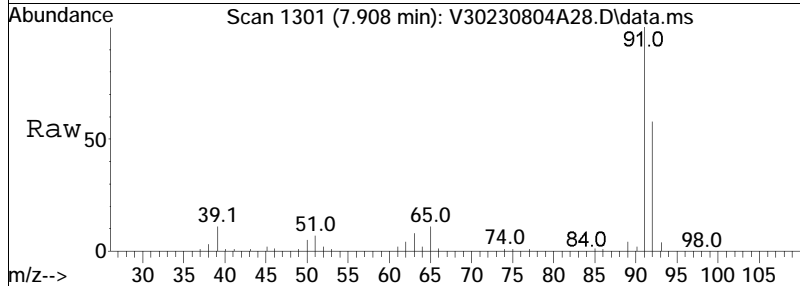
Tgt Ion	Resp	Lower	Upper
75	100		
77	32.7	25.4	38.2
39	55.6	54.6	82.0

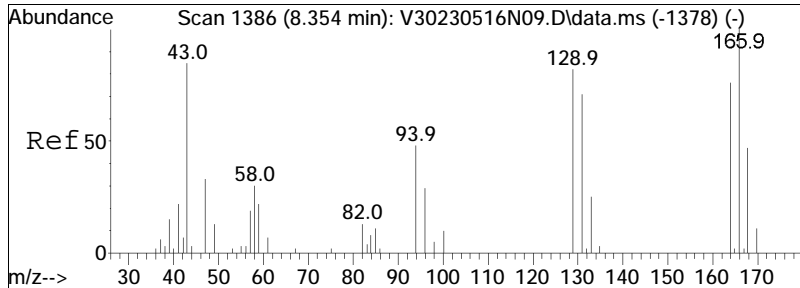




#65
 Toluene
 Concen: 10.74 ug/L
 RT: 7.908 min Scan# 1301
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

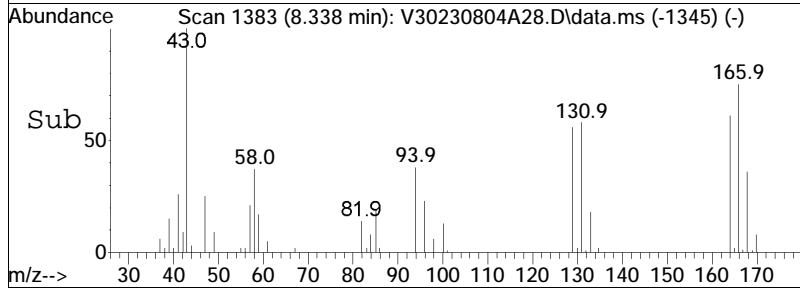
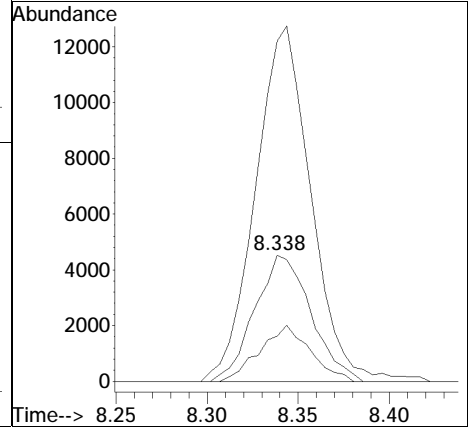
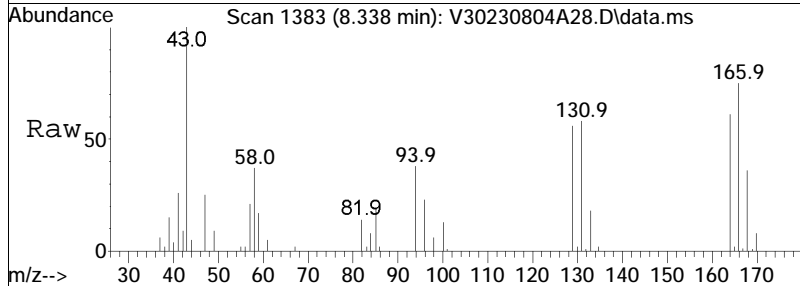
Tgt Ion	Resp	Lower	Upper
92	128803		
91	171.1	137.5	206.3

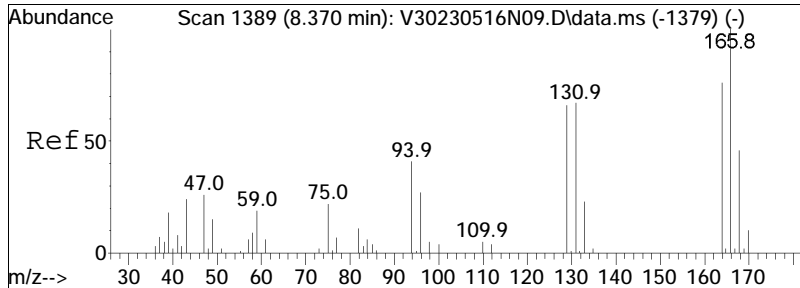




#66
 4-Methyl-2-pentanone
 Concen: 8.10 ug/L
 RT: 8.338 min Scan# 1383
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

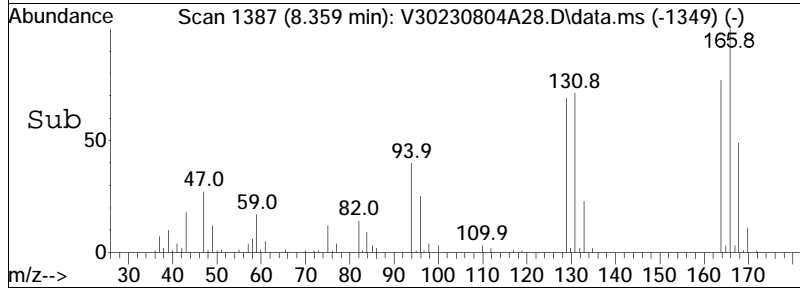
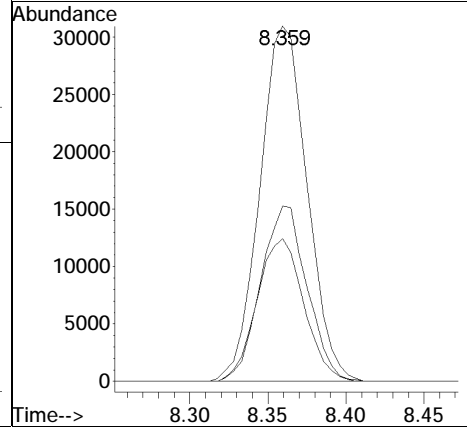
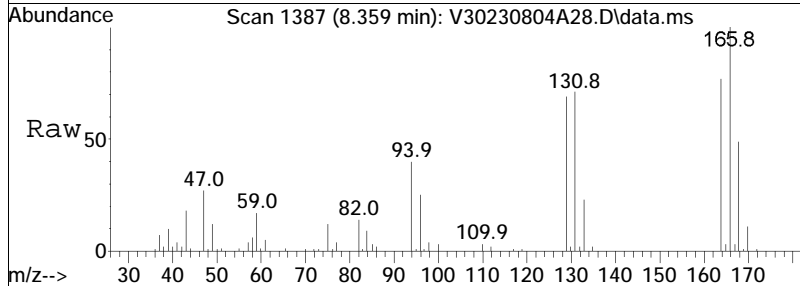
Tgt Ion	Resp	Lower	Upper
58	100		
100	40.0	22.6	34.0#
43	278.6	234.6	351.8

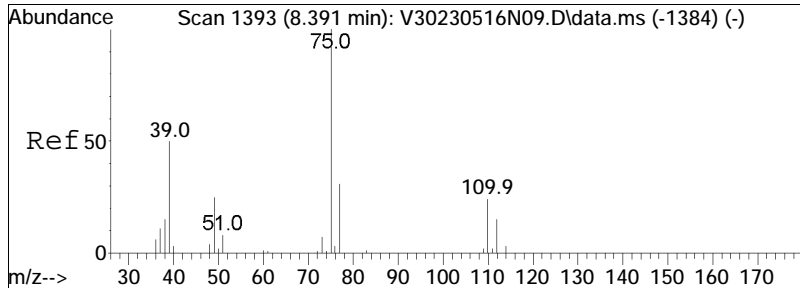




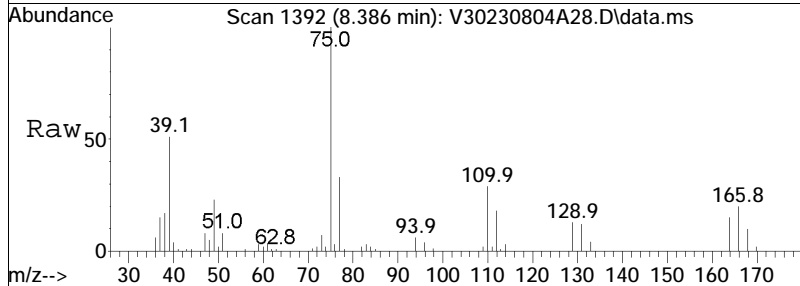
#67
 Tetrachloroethene
 Concen: 11.87 ug/L
 RT: 8.359 min Scan# 1387
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

Tgt Ion	166	168	94	Resp:	65211	Lower	Upper
Ion Ratio	100	48.2	39.7			38.6	58.0
						42.6	63.8#

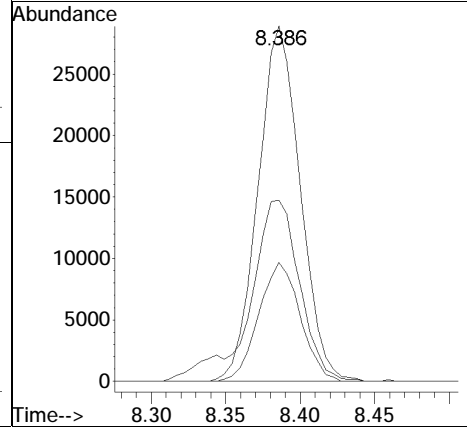
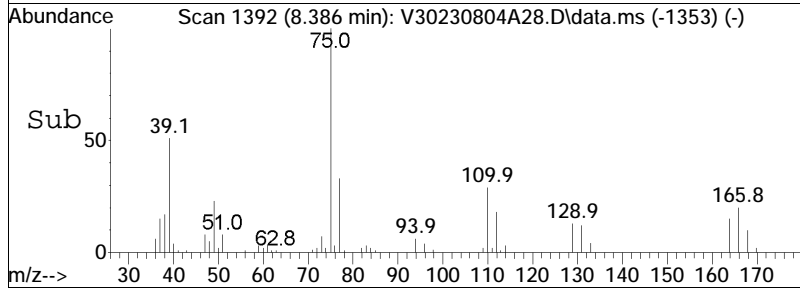


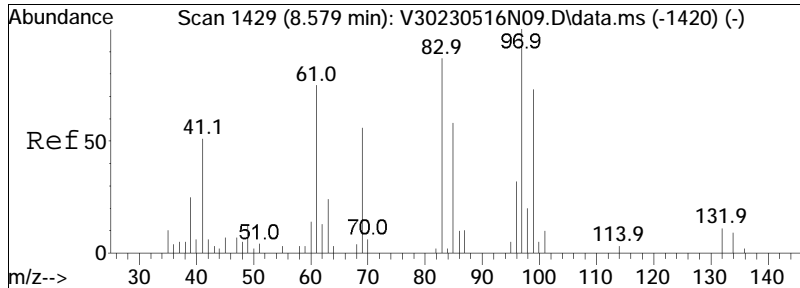


#69
 trans-1,3-Dichloropropene
 Concen: 9.16 ug/L
 RT: 8.386 min Scan# 1392
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm



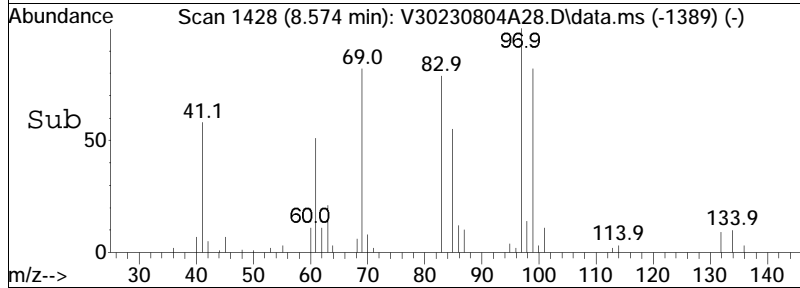
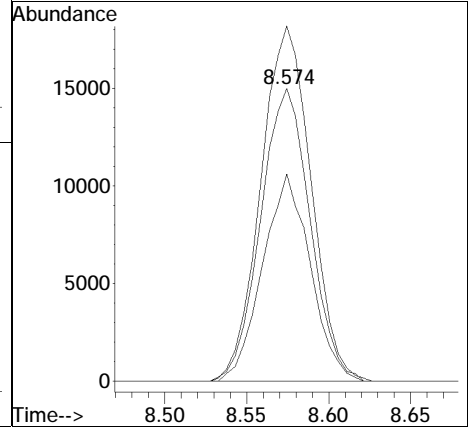
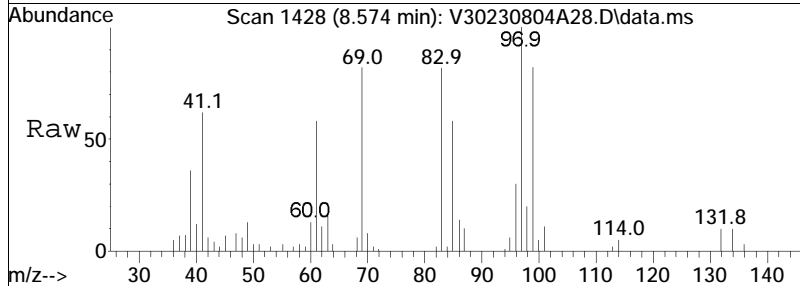
Tgt Ion	Resp	Lower	Upper
75	100		
77	33.0	25.6	38.4
39	60.3	60.2	90.4

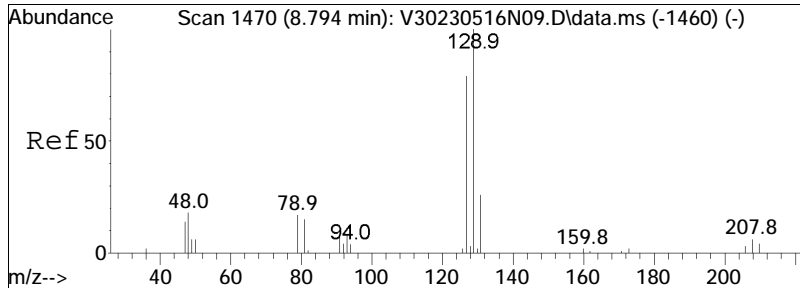




#72
 1,1,2-Trichloroethane
 Concen: 9.76 ug/L
 RT: 8.574 min Scan# 1428
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

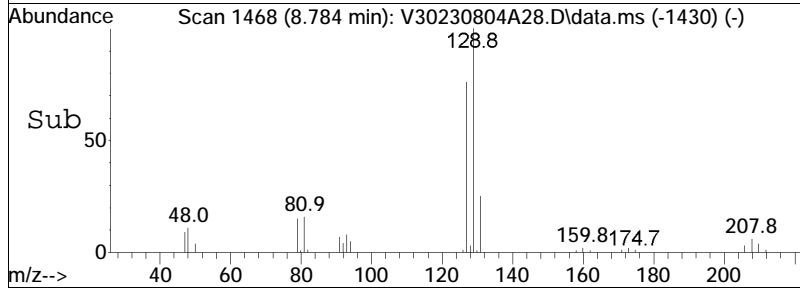
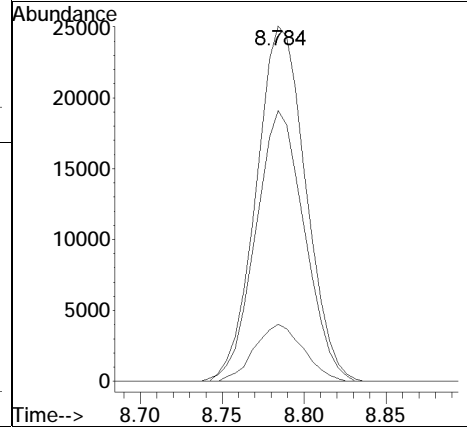
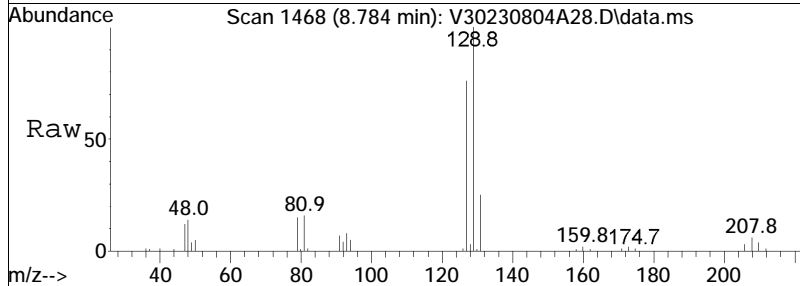
Tgt Ion	Resp	Lower	Upper
83	31486		
83	100		
97	123.1	87.7	131.5
85	68.2	53.1	79.7

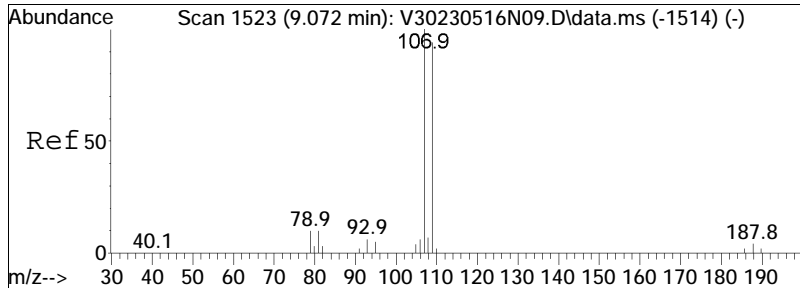




#73
 Chlorodibromomethane
 Concen: 10.24 ug/L
 RT: 8.784 min Scan# 1468
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

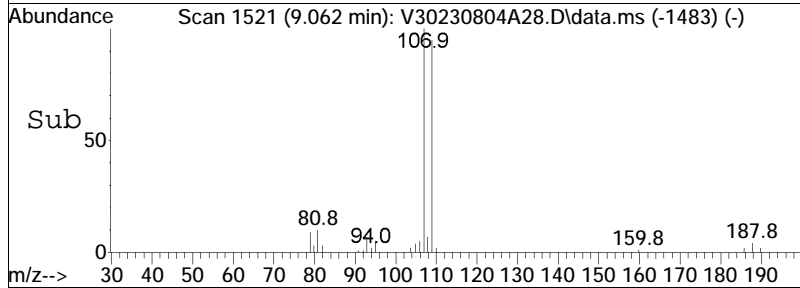
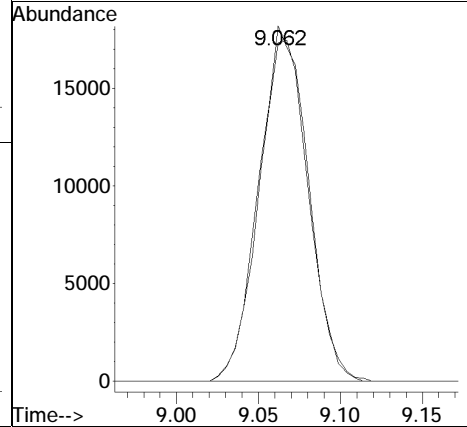
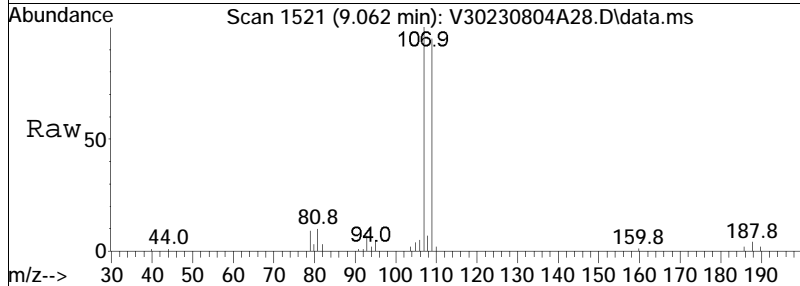
Tgt Ion	Resp	Lower	Upper
129	52703		
129	100		
81	15.9	14.6	22.0
127	75.4	62.6	93.8

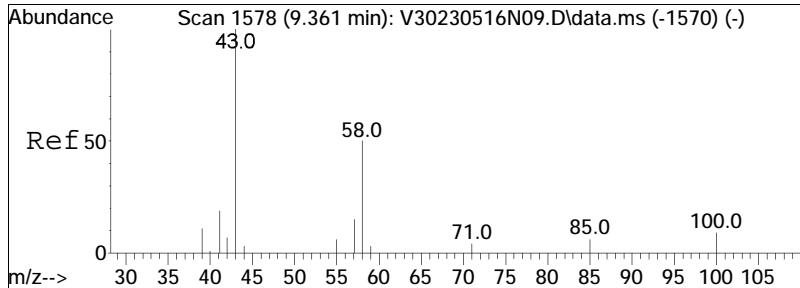




#75
 1,2-Dibromoethane
 Concen: 9.57 ug/L
 RT: 9.062 min Scan# 1521
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

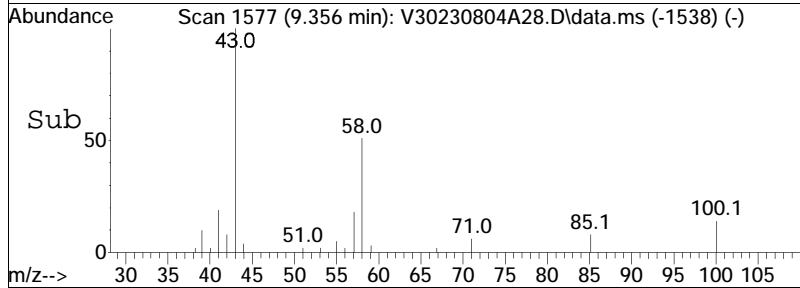
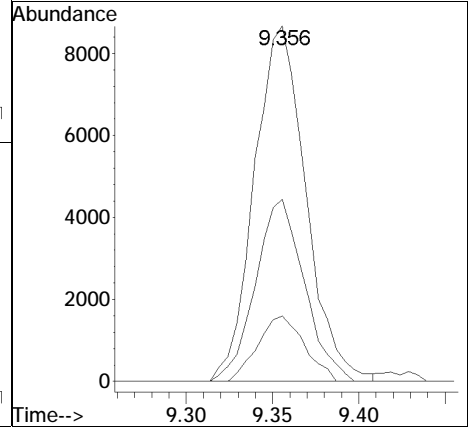
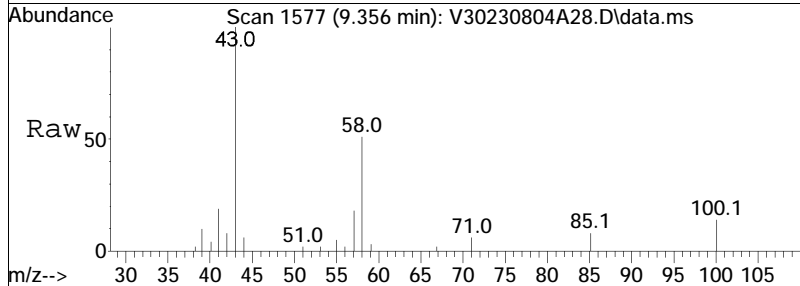
Tgt Ion	Resp	Lower	Upper
107	38005		
107	100		
109	97.1	75.0	112.4

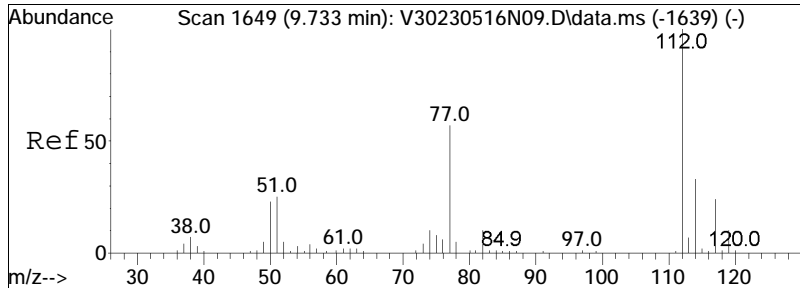




#77
 2-Hexanone
 Concen: 7.65 ug/L
 RT: 9.356 min Scan# 1577
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

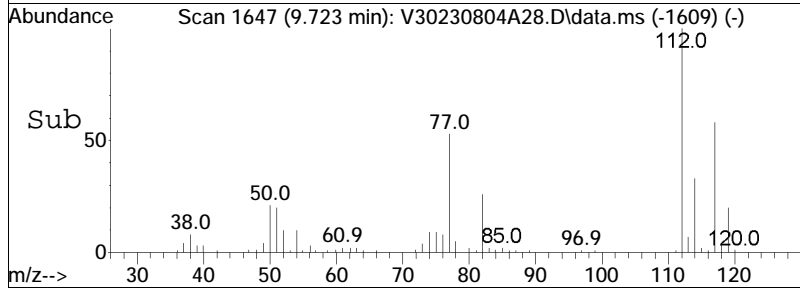
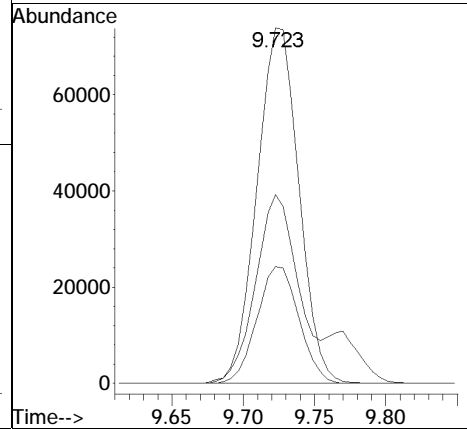
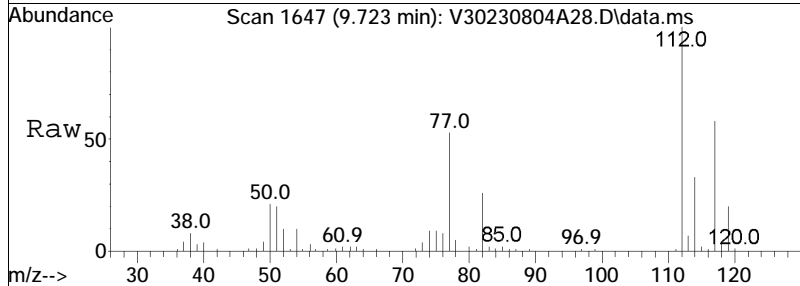
Tgt Ion	Resp	Lower	Upper
43	18009		
58	48.6	38.6	58.0
57	16.7	14.1	21.1

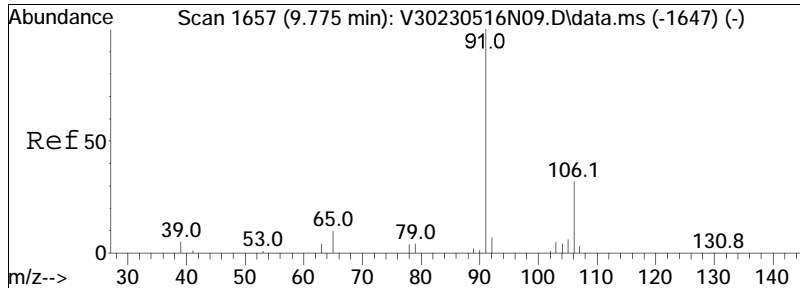




#78
 Chlorobenzene
 Concen: 10.78 ug/L
 RT: 9.723 min Scan# 1647
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

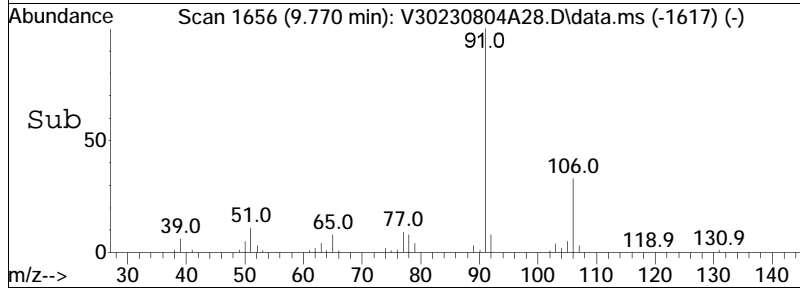
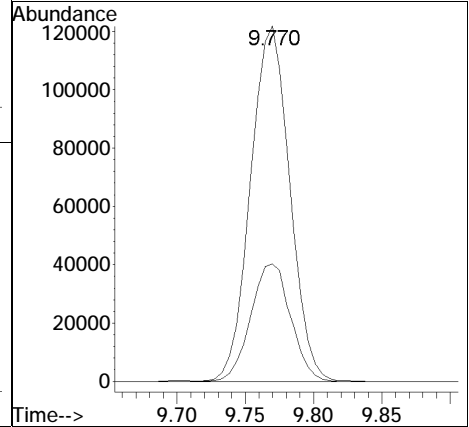
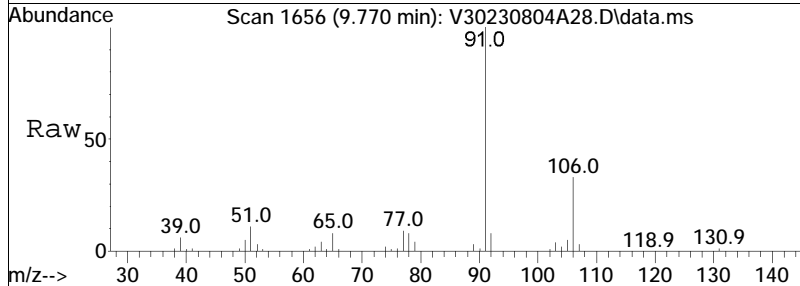
Tgt Ion	Resp	Lower	Upper
112	151349		
77	54.1	54.8	82.2#
114	32.9	25.4	38.0

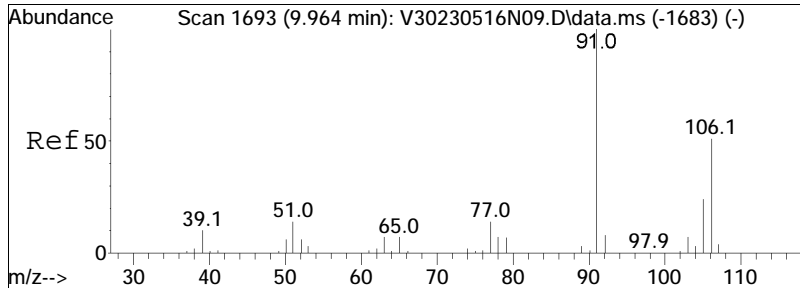




#79
 Ethylbenzene
 Concen: 10.49 ug/L
 RT: 9.770 min Scan# 1656
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

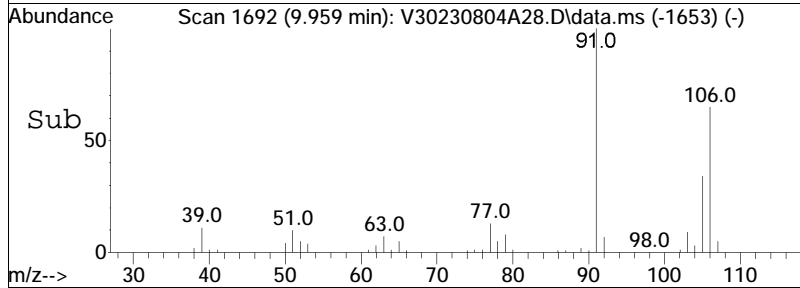
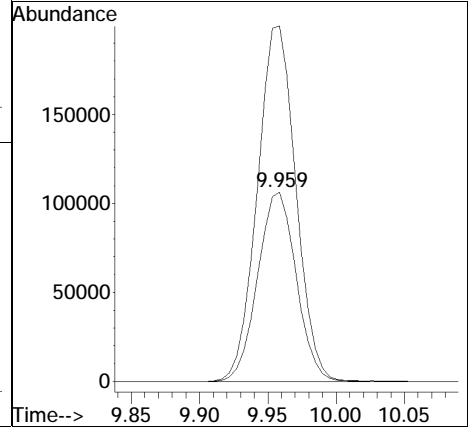
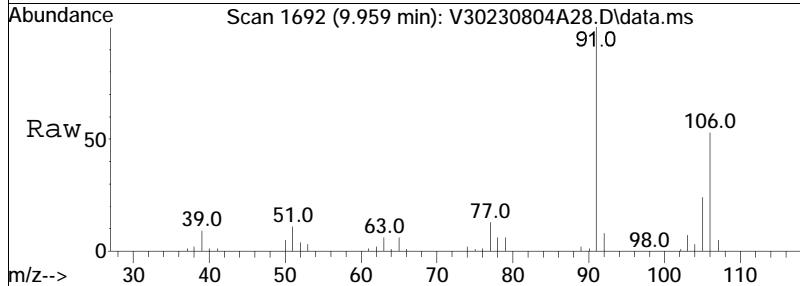
Tgt Ion:	Resp:	Lower	Upper
91	100		
106	33.6	23.4	35.2

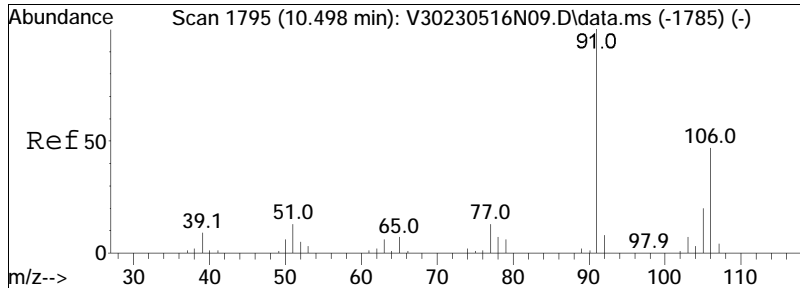




#81
 p/m Xylene
 Concen: 21.75 ug/L
 RT: 9.959 min Scan# 1692
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

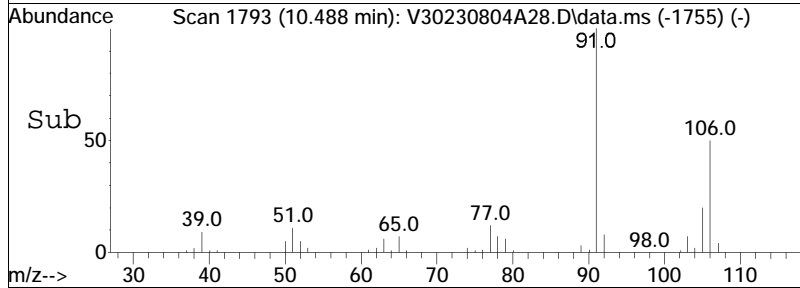
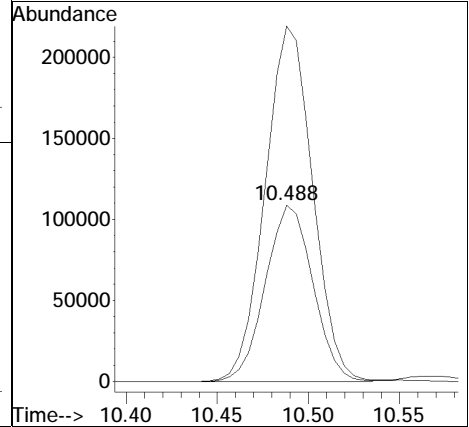
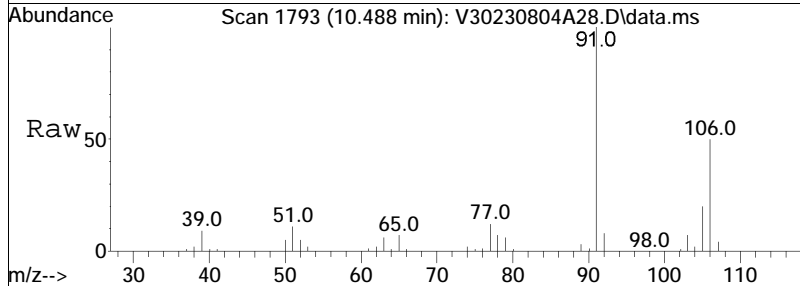
Tgt Ion	106	91	Resp	208204	Lower	Upper
Ion Ratio	100	187.7			171.4	257.2

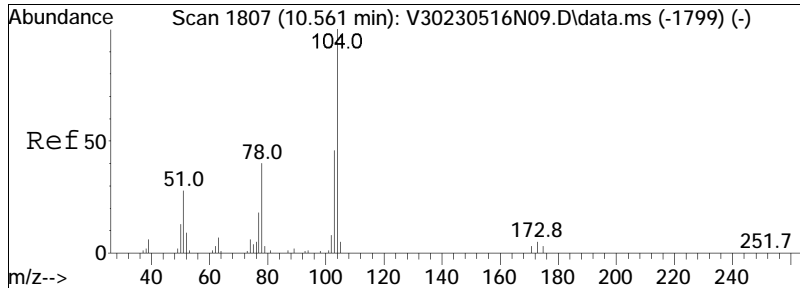




#82
 o Xylene
 Concen: 20.85 ug/L
 RT: 10.488 min Scan# 1793
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

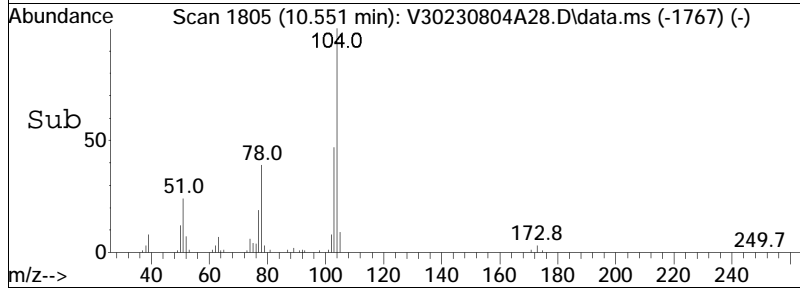
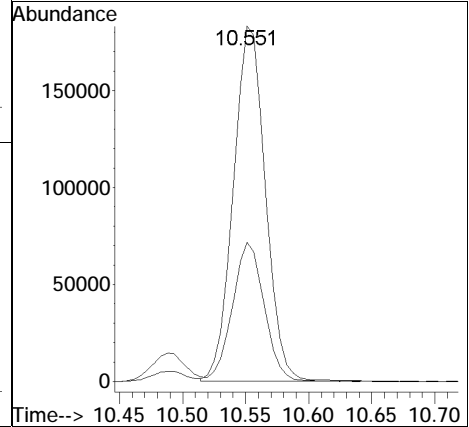
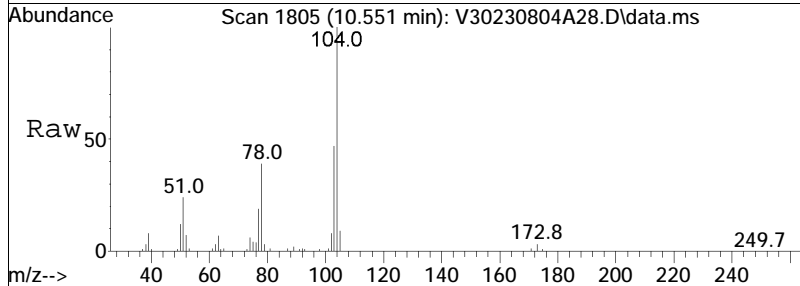
Tgt Ion: 106 Resp: 197061
 Ion Ratio Lower Upper
 106 100
 91 201.7 179.2 268.8

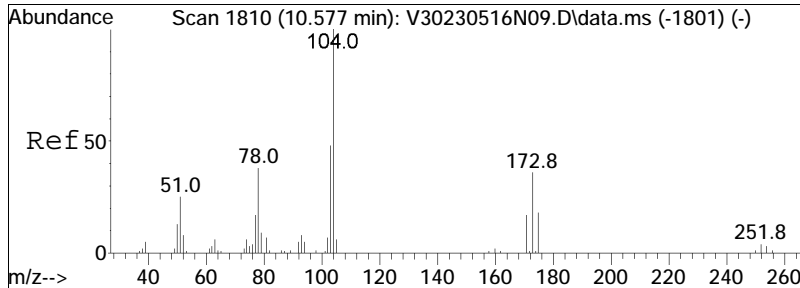




#83
 Styrene
 Concen: 21.09 ug/L
 RT: 10.551 min Scan# 1805
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

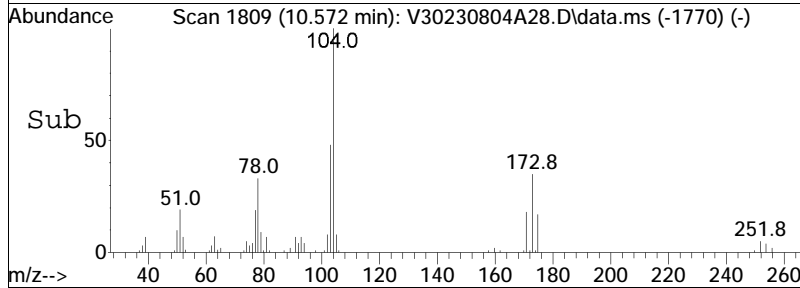
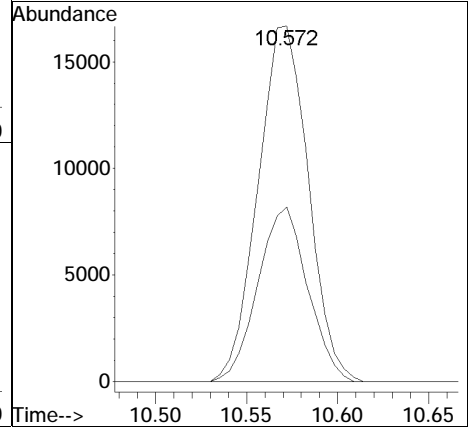
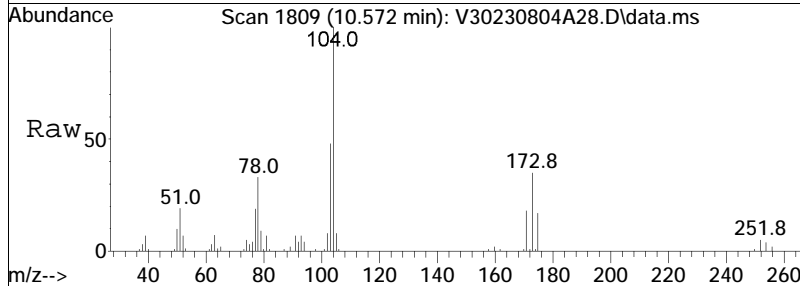
Tgt Ion:104 Resp: 323362
 Ion Ratio Lower Upper
 104 100
 78 38.7 38.1 57.1

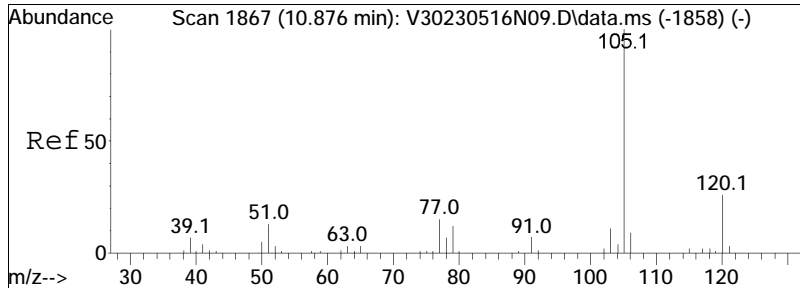




#85
 Bromoform
 Concen: 9.40 ug/L
 RT: 10.572 min Scan# 1809
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

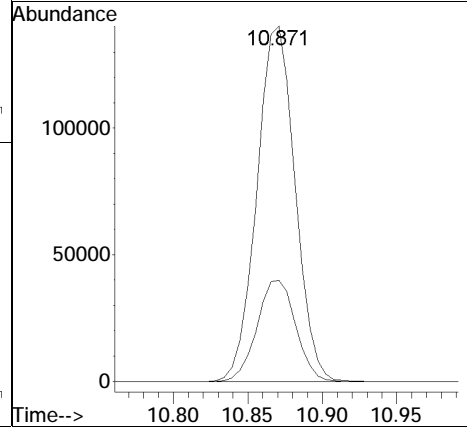
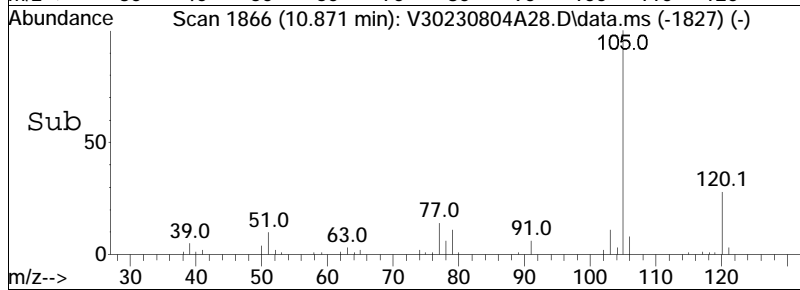
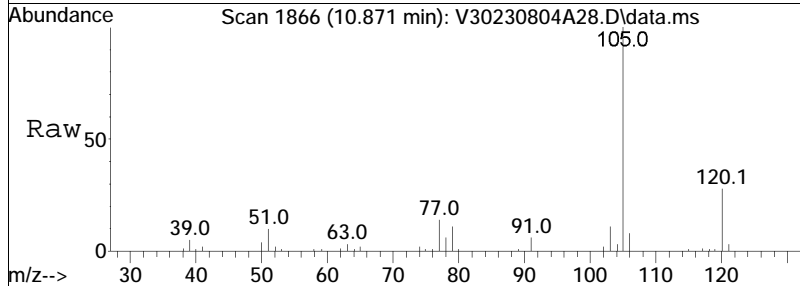
Tgt Ion: 173 Resp: 32057
 Ion Ratio Lower Upper
 173 100
 175 48.3 37.8 56.6

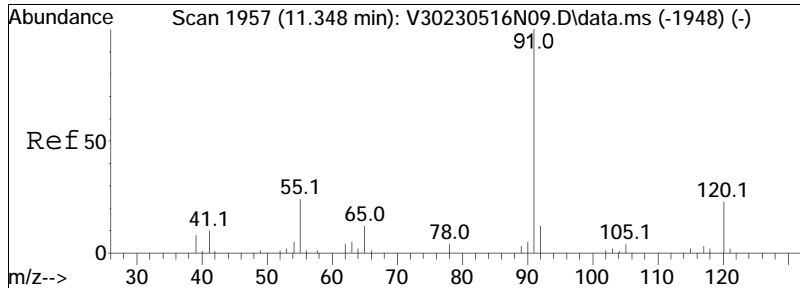




#87
 Isopropylbenzene
 Concen: 9.76 ug/L
 RT: 10.871 min Scan# 1866
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

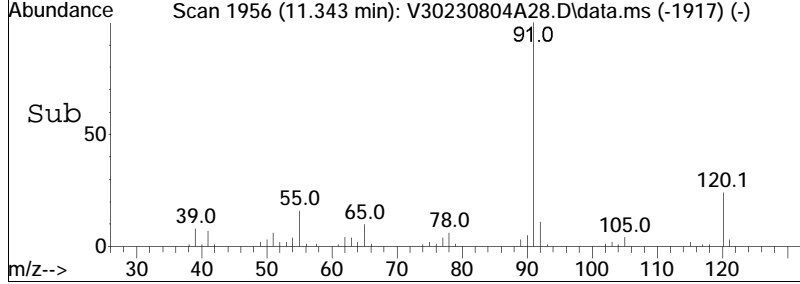
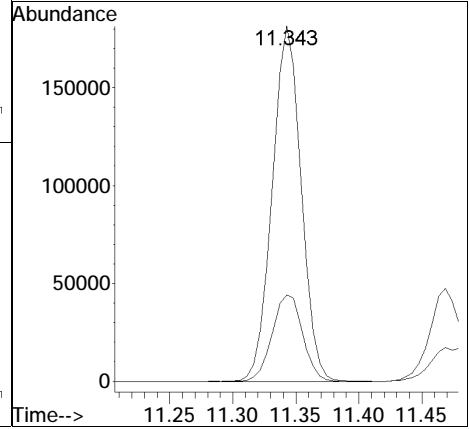
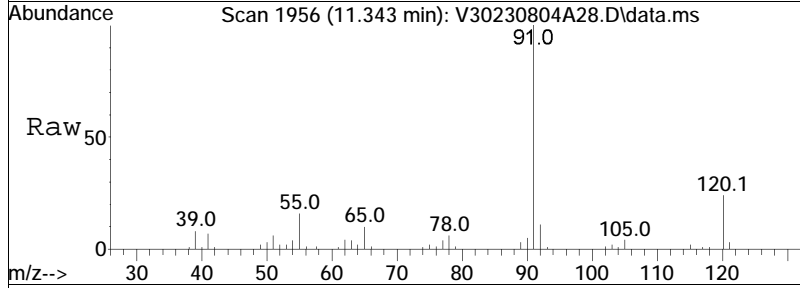
Tgt Ion	Resp	Lower	Upper
105	100		
120	28.7	20.0	30.0

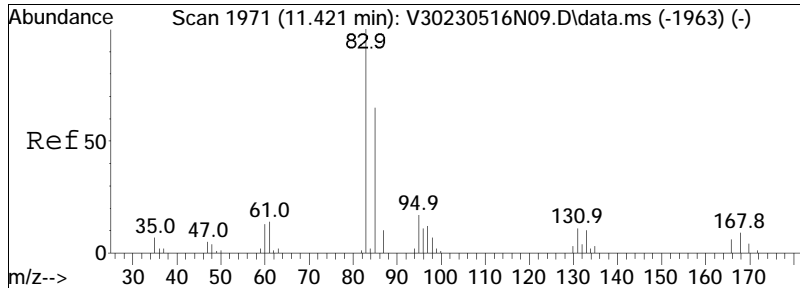




#90
 n-Propylbenzene
 Concen: 9.84 ug/L
 RT: 11.343 min Scan# 1956
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

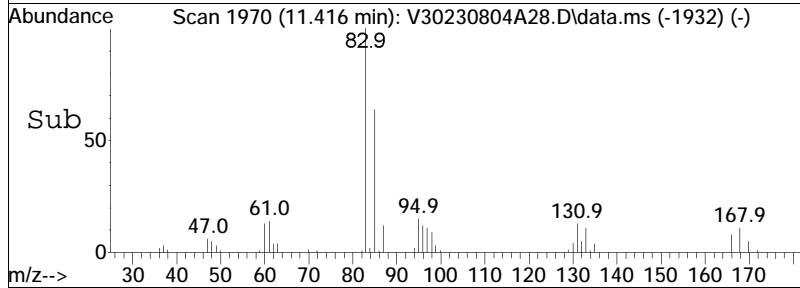
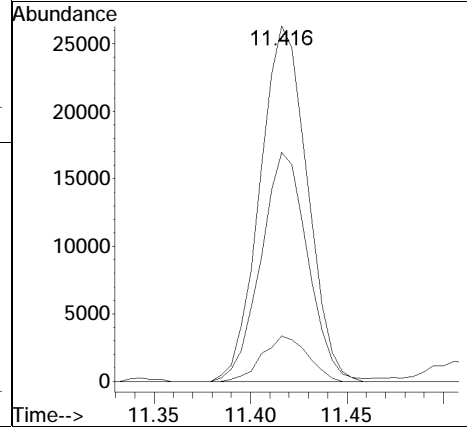
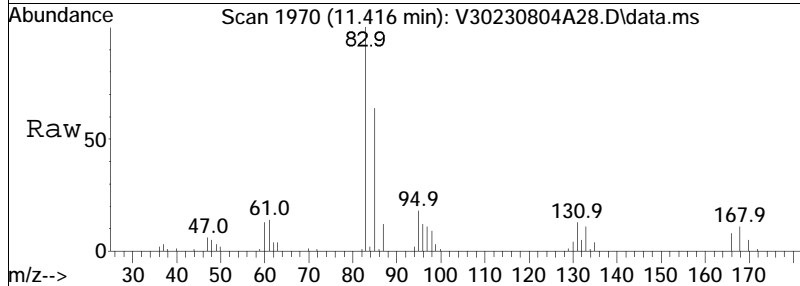
Tgt Ion:	Resp:	Lower	Upper
91	100		
120	25.6	16.3	24.5#

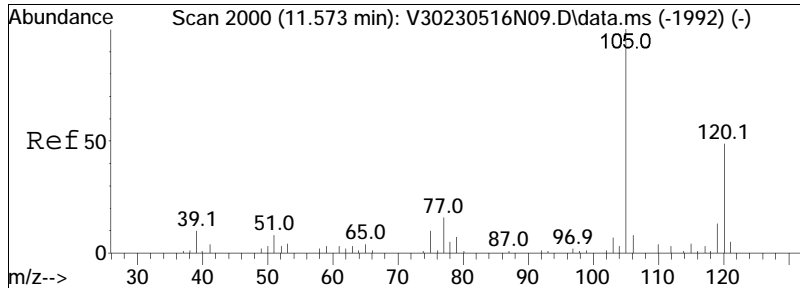




#92
 1,1,2,2-Tetrachloroethane
 Concen: 10.13 ug/L
 RT: 11.416 min Scan# 1970
 Delta R.T. -0.000 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

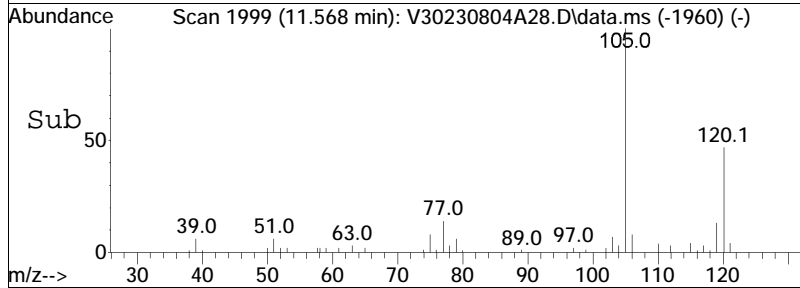
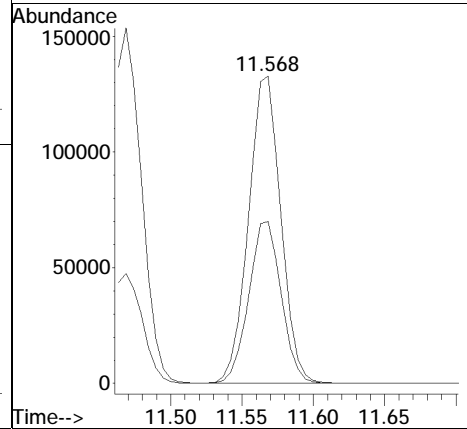
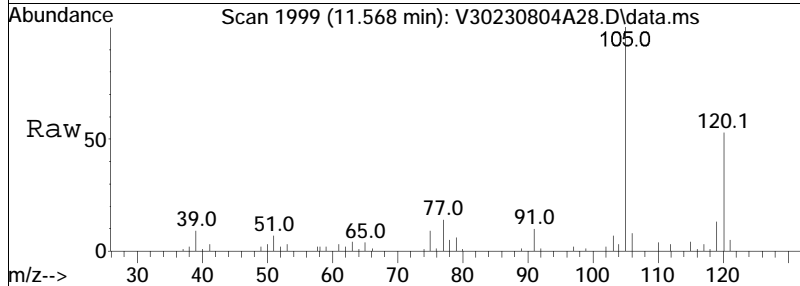
Tgt Ion	Resp	Lower	Upper
83	100		
131	12.2	6.6	10.0#
85	63.8	51.8	77.6

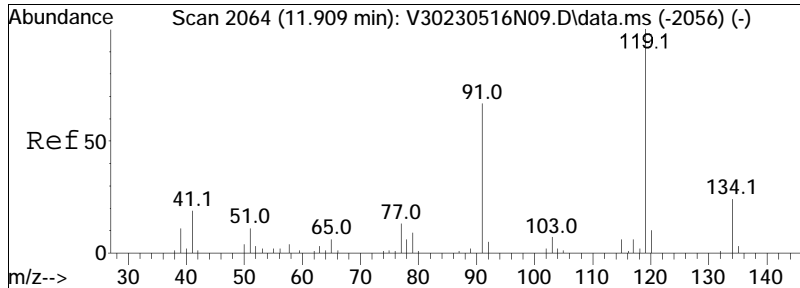




#95
 1,3,5-Trimethylbenzene
 Concen: 9.90 ug/L
 RT: 11.568 min Scan# 1999
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

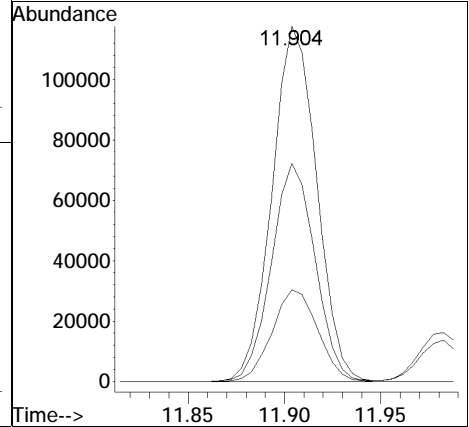
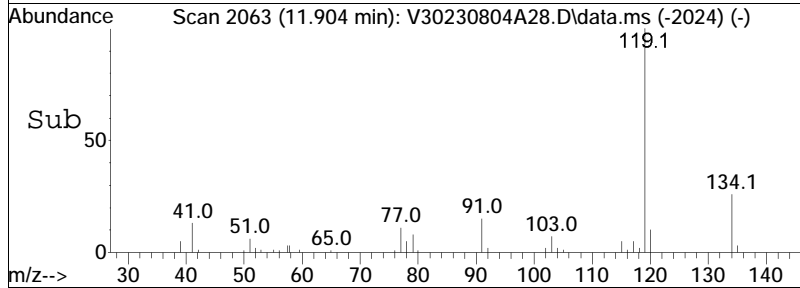
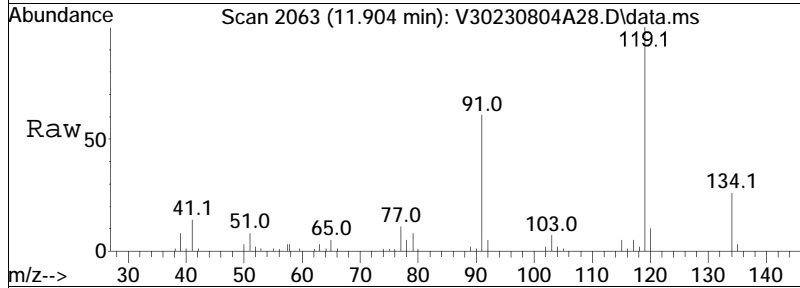
Tgt Ion	Resp	Lower	Upper
105	100		
120	52.8	37.8	56.6

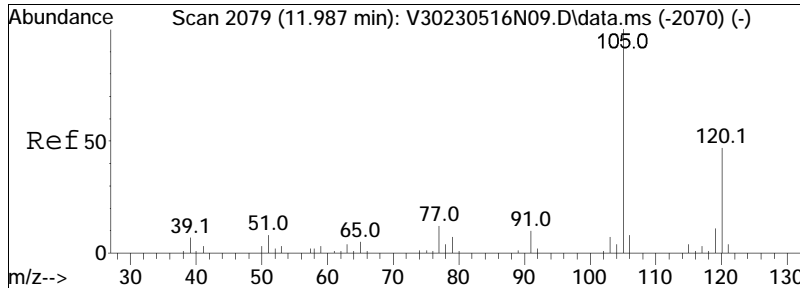




#99
 tert-Butylbenzene
 Concen: 9.88 ug/L
 RT: 11.904 min Scan# 2063
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

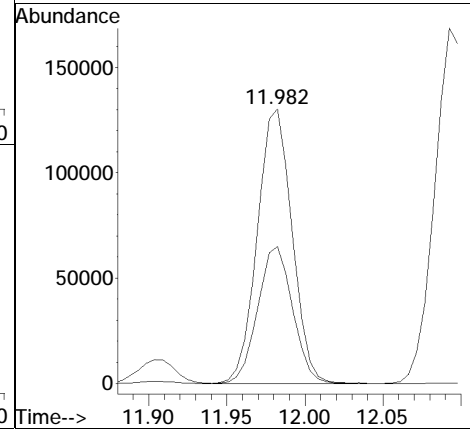
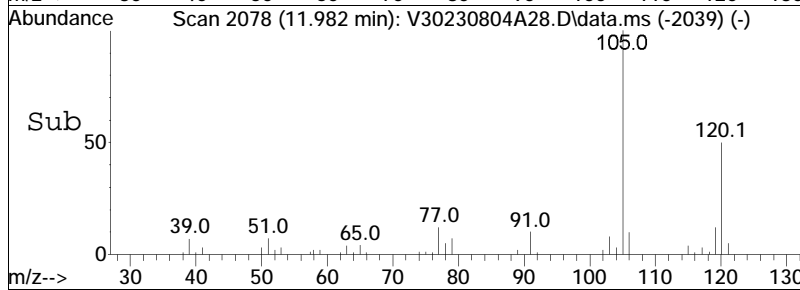
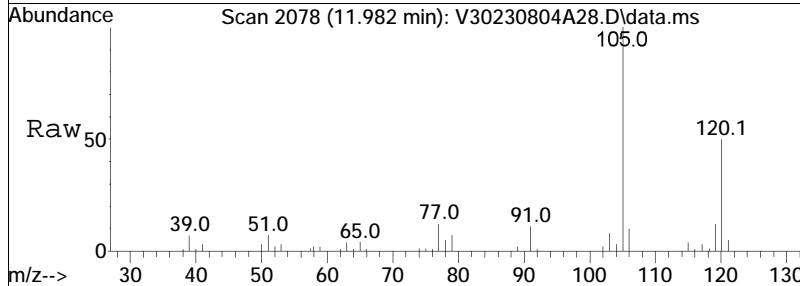
Tgt Ion	Resp	Lower	Upper
119	189155		
91	60.1	58.8	88.2
134	26.4	18.6	27.8

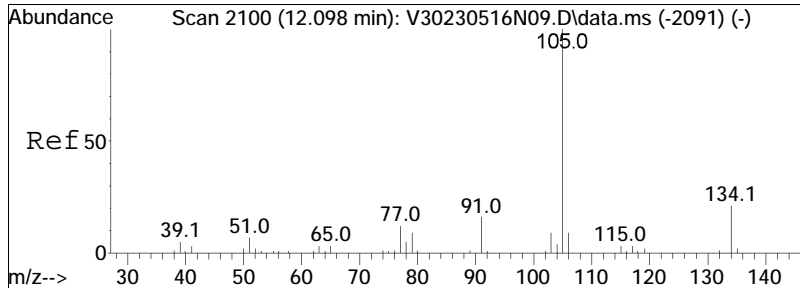




#102
 1,2,4-Trimethylbenzene
 Concen: 9.71 ug/L
 RT: 11.982 min Scan# 2078
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

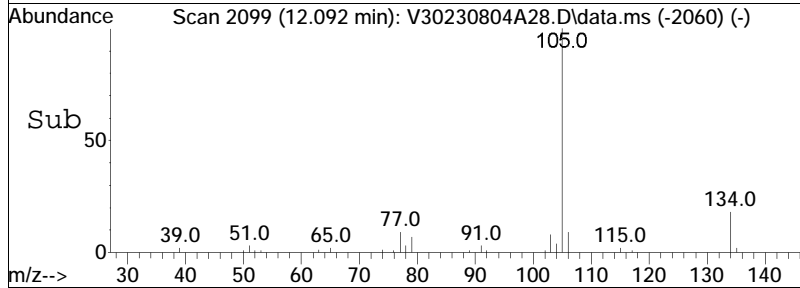
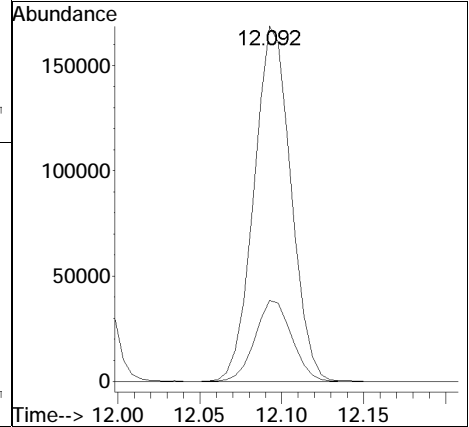
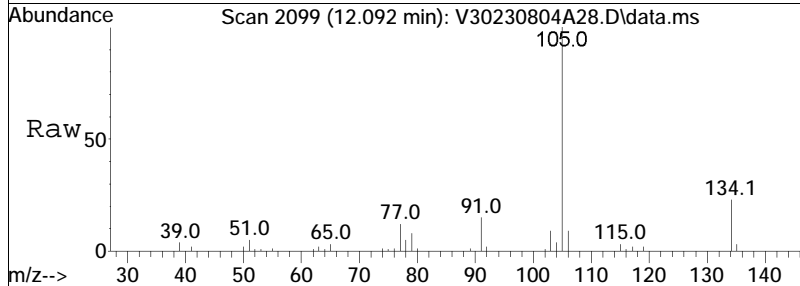
Tgt Ion	Resp	Lower	Upper
105	100		
120	49.9	35.2	52.8

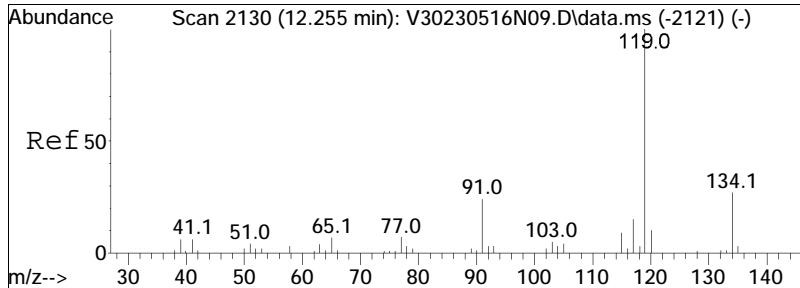




#103
 sec-Butylbenzene
 Concen: 9.88 ug/L
 RT: 12.092 min Scan# 2099
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

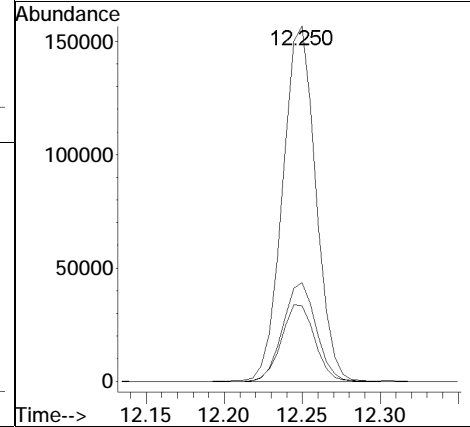
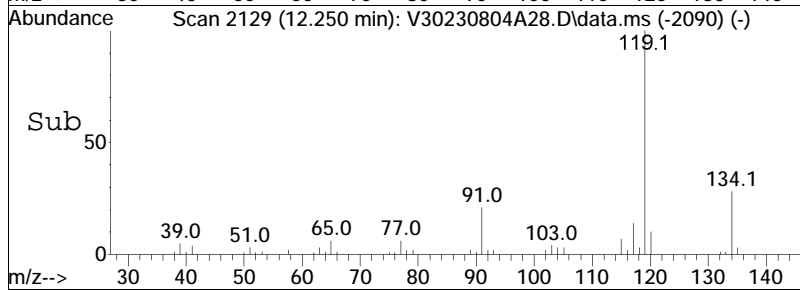
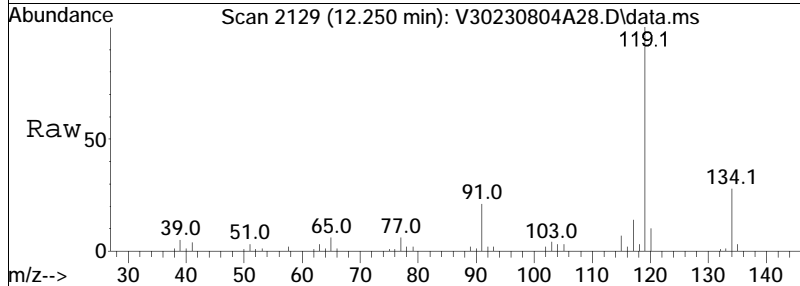
Tgt Ion	Resp	Lower	Upper
105	100		
134	22.6	11.4	23.6

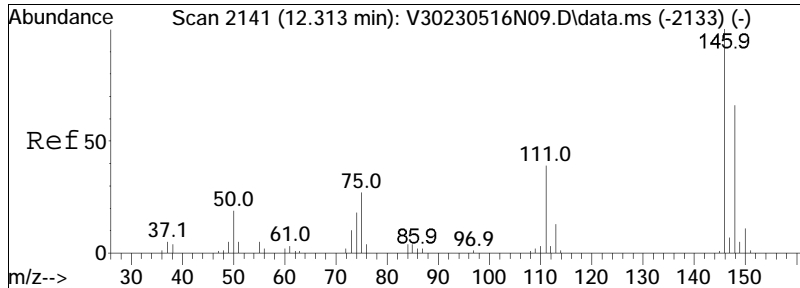




#104
 p-Isopropyltoluene
 Concen: 9.84 ug/L
 RT: 12.250 min Scan# 2129
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

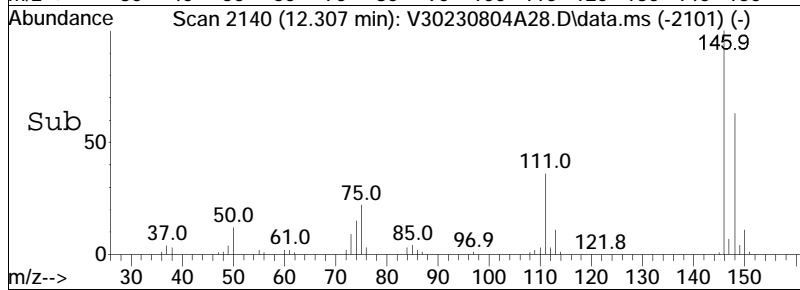
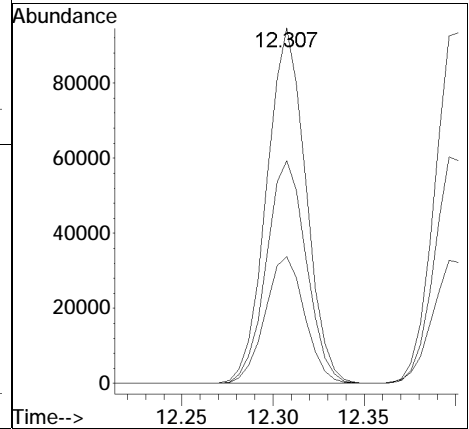
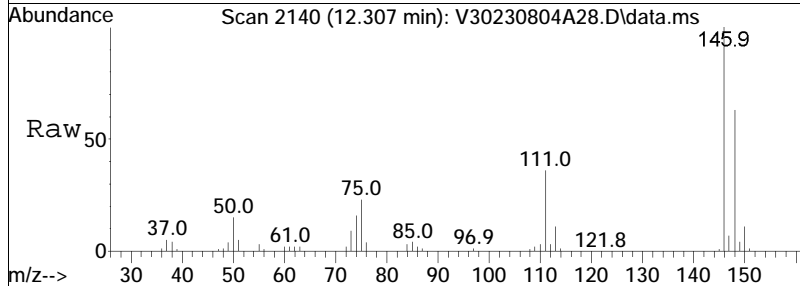
Tgt Ion	Resp	Lower	Upper
119	100		
134	27.8	15.9	33.1
91	21.7	16.6	34.4

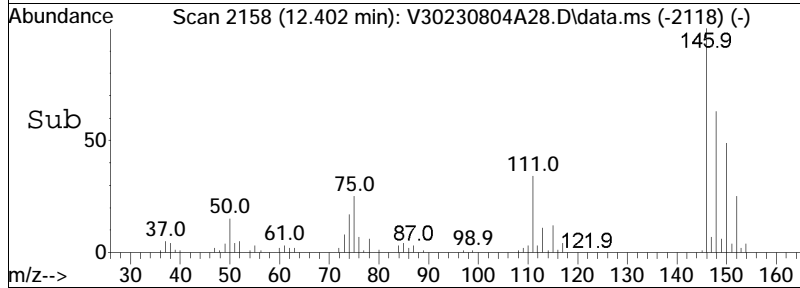
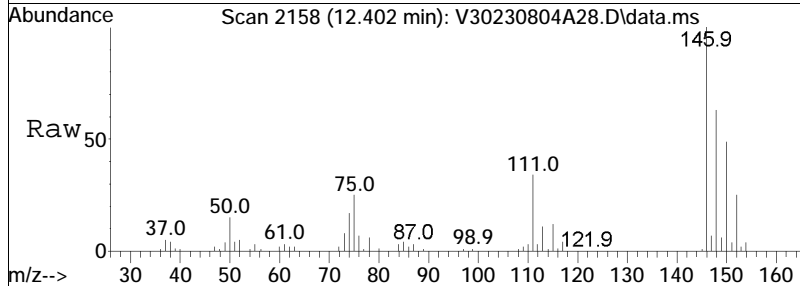
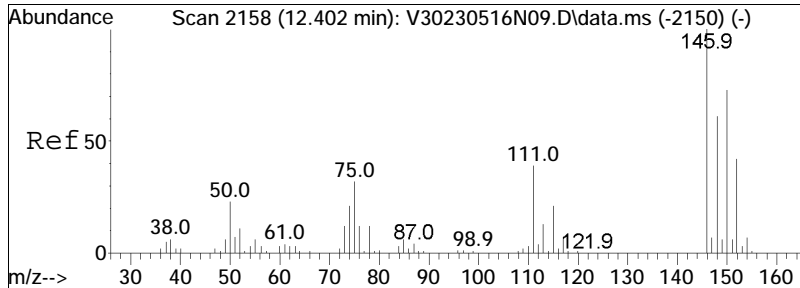




#105
 1,3-Dichlorobenzene
 Concen: 10.31 ug/L
 RT: 12.307 min Scan# 2140
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

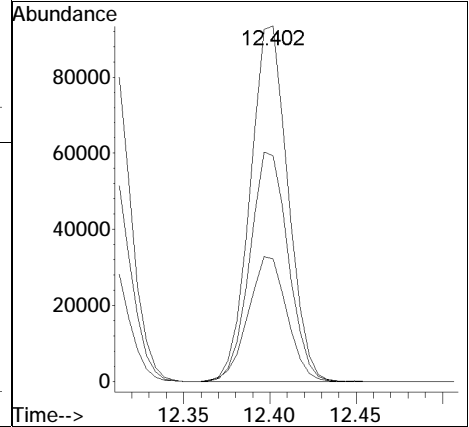
Tgt Ion	Resp	Lower	Upper
146	100		
111	36.1	28.0	58.1
148	63.9	40.8	84.6

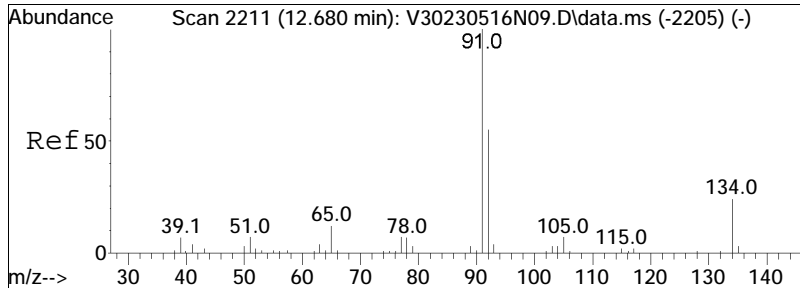




#106
 1,4-Dichlorobenzene
 Concen: 10.33 ug/L
 RT: 12.402 min Scan# 2158
 Delta R.T. 0.010 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

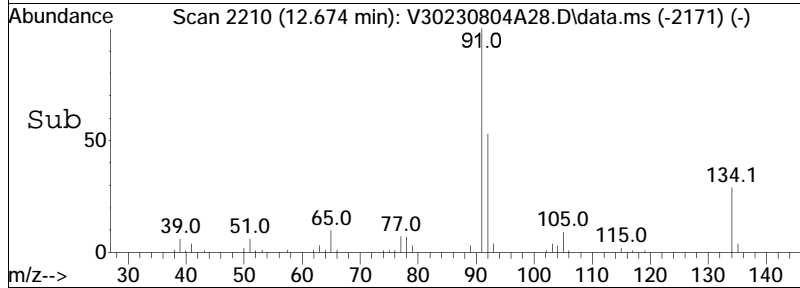
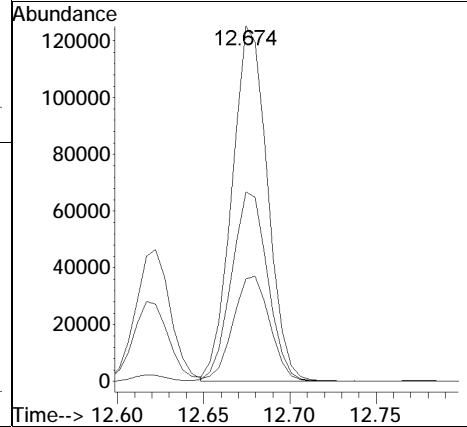
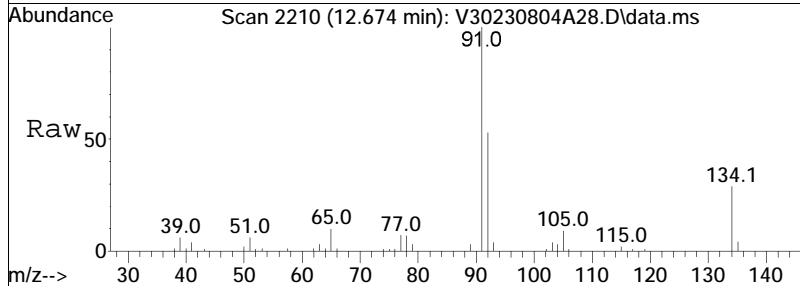
Tgt Ion	Resp	Lower	Upper
146	100		
111	36.0	33.7	50.5
148	65.3	50.8	76.2

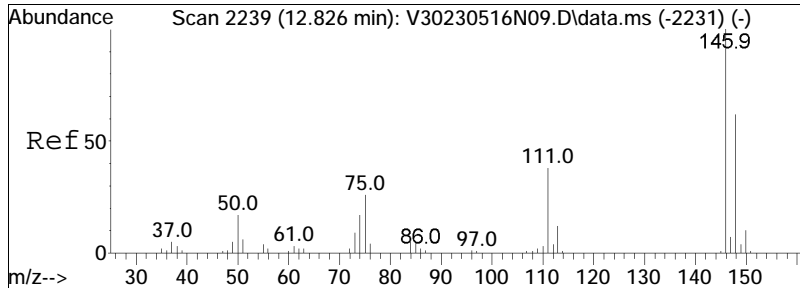




#108
 n-Butylbenzene
 Concen: 9.76 ug/L
 RT: 12.674 min Scan# 2210
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

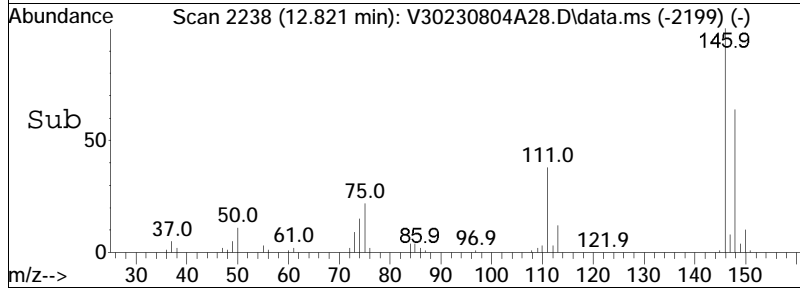
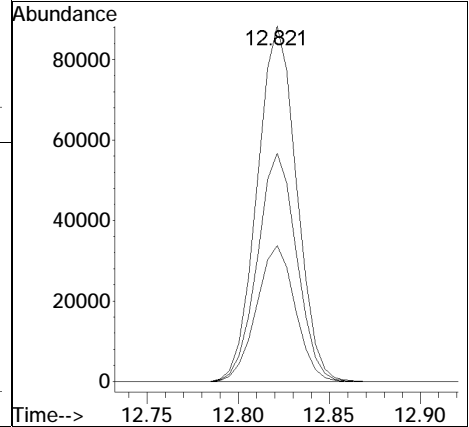
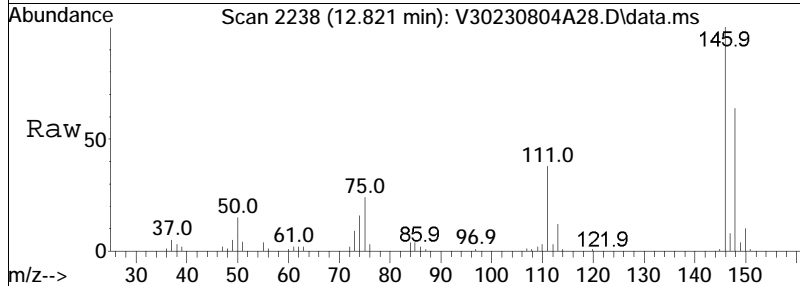
Tgt Ion:	91	Resp:	179787
Ion Ratio	Lower	Upper	
91	100		
92	54.3	44.2	66.4
134	30.6	17.8	26.6#

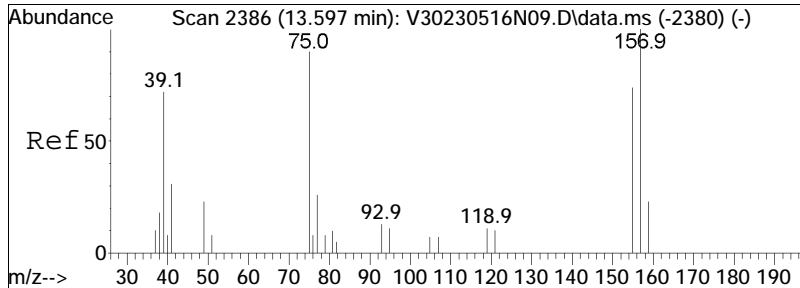




#109
 1,2-Dichlorobenzene
 Concen: 10.17 ug/L
 RT: 12.821 min Scan# 2238
 Delta R.T. 0.005 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

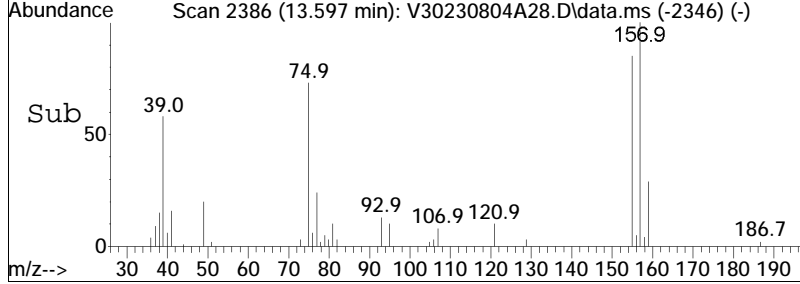
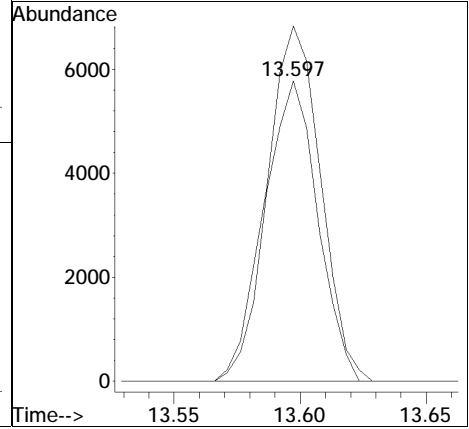
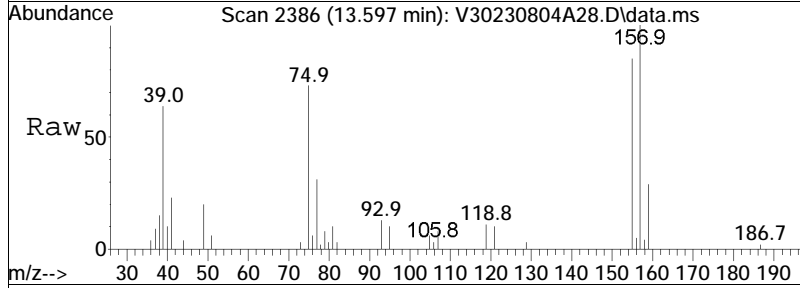
Tgt Ion	Resp	Lower	Upper
146	132885		
146	100		
111	37.5	29.5	61.3
148	63.8	41.3	85.9

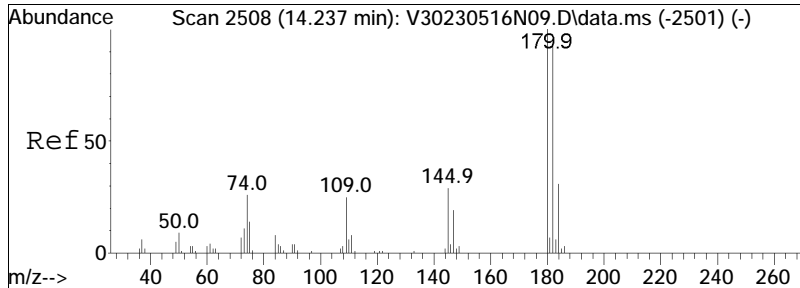




#111
 1,2-Dibromo-3-chloropropane
 Concen: 9.09 ug/L
 RT: 13.597 min Scan# 2386
 Delta R.T. 0.010 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

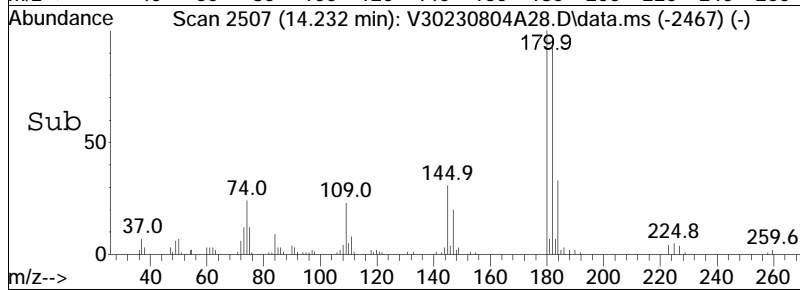
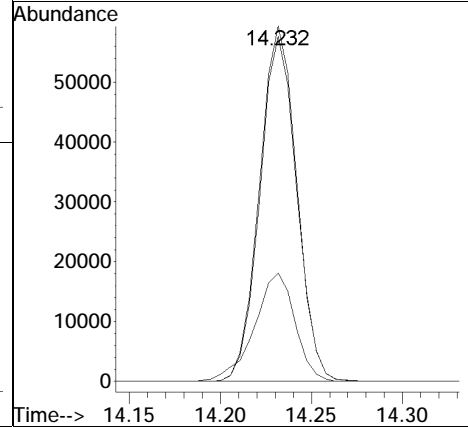
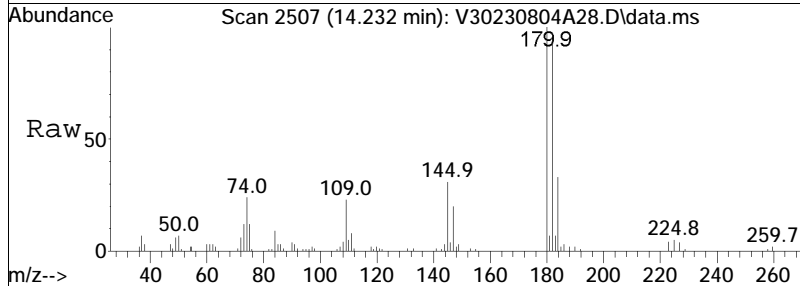
Tgt Ion: 155 Resp: 8283
 Ion Ratio Lower Upper
 155 100
 157 124.6 105.1 157.7

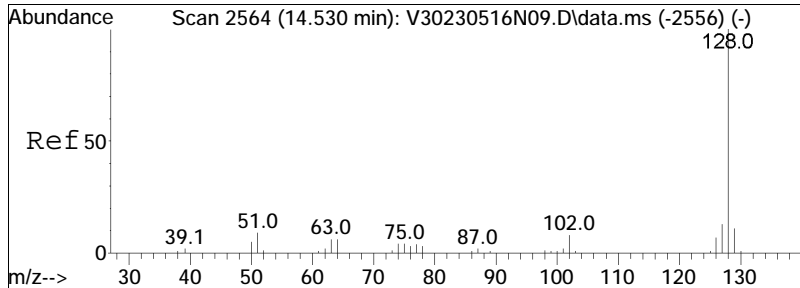




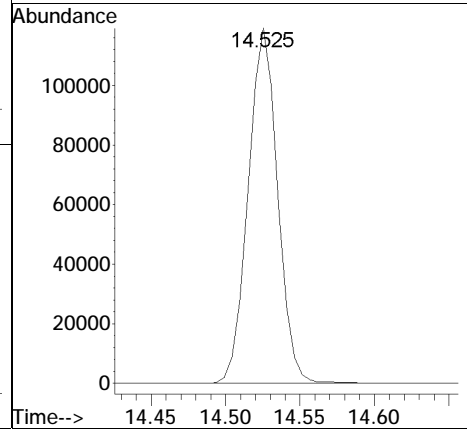
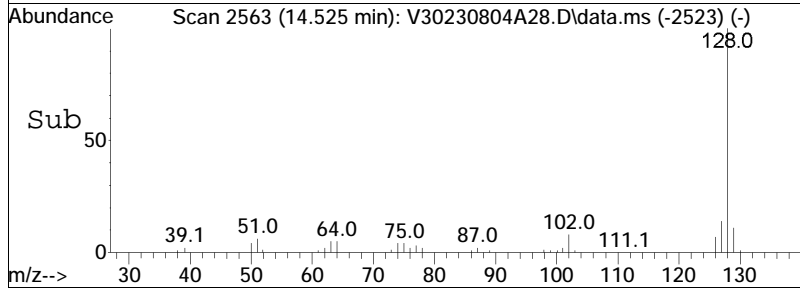
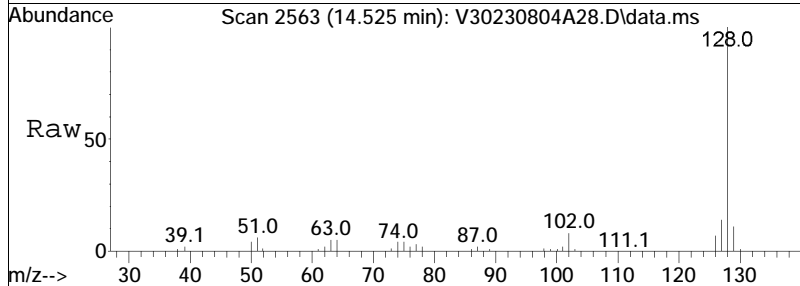
#114
 1,2,4-Trichlorobenzene
 Concen: 10.46 ug/L
 RT: 14.232 min Scan# 2507
 Delta R.T. 0.010 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	75.7	113.5
145	33.3	27.4	41.2





#115
 Naphthalene
 Concen: 8.92 ug/L
 RT: 14.525 min Scan# 2563
 Delta R.T. 0.010 min
 Lab File: V30230804A28.D
 Acq: 04 Aug 2023 04:42 pm
 Tgt Ion:128 Resp: 163582



Manual Integration Report

Data Path : K:\VOA130\2023\230804A\ QMethod : V130_230713N_8260D.m
Data File : V30230804A28.D Operator : VOA130:PID
Date Inj'd : 8/4/2023 4:42 pm Instrument : VOA130
Sample : WG1811888-7,31,10,10,,A2 Quant Date : 8/5/2023 2:52 pm

There are no manual integrations or false positives in this file.



Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: $Amt * DF * Uf * (1/Vo)$

Where:

DF = Dilution Factor

Vo = Sample Volume Purged (mL)

Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: $Amt * DF * (1/Wt)$

Where:

DF = Dilution Factor

Wt = Weight of Sample (g)



ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Aug 14 2023, 03:31 pm

Work Group: WG1811888 for Department: 31 GC/MS - Volatiles

Created: 04-AUG-23 Due: Operator: PID

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2342961-01	MP-4	S NYTCL-8260-R2	WATER	DONE	U	0808	0809	S0	Vial-B
L2342961-02	MW-103S	S NYTCL-8260-R2	WATER	DONE	U	0808	0809	S0	Vial-B
L2342961-03	MW-35	S NYTCL-8260-R2	WATER	DONE	U	0808	0809	S0	Vial-B
L2342961-10	TRIP BLANK	S NYTCL-8260-R2	WATER	DONE	U	0808	0809	S0	Vial-B
L2343170-01	YS-MW-2023-01 072623	S NYTCL-8260-R2	WATER	DONE	U	0809	0809	S0	Vial-B
L2343170-02	MW-01 072623	S NYTCL-8260-R2	WATER	DONE	U	0809	0809	S0	Vial-B
L2343170-03	YS-MW-BD- 072623	S NYTCL-8260-R2	WATER	DONE	U	0809	0809	S0	Vial-B
L2343170-04	TRIP BLANK	S NYTCL-8260-R2	WATER	DONE	U	0809	0809	S0	Vial-B
L2344869-01	TB-08022023	S NYTCL-8260	WATER	DONE	U	0817	0804	1A	Vial-B
L2344869-02	WRI_89-91 GERRY_080232	S NYTCL-8260	WATER	DONE	U	0817	0804	1A	Vial-B
WG1811888-1	MS BFB Tune Standard	S NYTCL-8260	WATER	DONE	U				
WG1811888-1	MS BFB Tune Standard	S NYTCL-8260-R2	WATER	DACQ	U				
WG1811888-2	Continuing Calibrati	S NYTCL-8260	WATER	DONE	U				
WG1811888-2	Continuing Calibrati	S NYTCL-8260-R2	WATER	DACQ	U				
WG1811888-3	Laboratory Control S	S NYTCL-8260-R2	WATER	DACQ	U				
WG1811888-3	Laboratory Control S	S NYTCL-8260	WATER	DONE	U				
WG1811888-4	LCS Duplicate	S NYTCL-8260	WATER	DONE	U				
WG1811888-4	LCS Duplicate	S NYTCL-8260-R2	WATER	DACQ	U				
WG1811888-5	Laboratory Method Bl	S NYTCL-8260-R2	WATER	DACQ	U				
WG1811888-5	Laboratory Method Bl	S NYTCL-8260	WATER	DONE	U				
WG1811888-6	Matrix Spike	S NYTCL-8260	WATER	DONE	U				
WG1811888-6	Matrix Spike	S NYTCL-8260-R2	WATER	DACQ	U				
WG1811888-7	Matrix Spike Duplica	S NYTCL-8260	WATER	DONE	U				
WG1811888-7	Matrix Spike Duplica	S NYTCL-8260-R2	WATER	DACQ	U				

Comments:

WG1811888-4 WG1811888-3
 WG1811888-6 L2343170-01
 WG1811888-7 L2343170-01

Inst: VOA130
 Initials: TMS
 Date: **07/13/23**
 Run: **N**

BFB: V9777
 IS/SS: V9801
 ICAL: V9805B, V9803
 ICV: V9809, V9795, V9796, V9776, V9780, V9797

Method
 GC: 8260
 Autosampler: 8260
 Concentrator: 8260



QC: _____ Seq: _____

Vial	Data File	pH<2
1	V30230713NBF1 BFB TUNE	
1	V30230713N01 BLK	
2	V30230713N02 BLK	
3	V30230713N03 I8260STD0.19PPB	
4	V30230713N04 I8260STD0.19PPB	
5	V30230713N05 I8260STD0.5PPB	
6	V30230713N06 I8260STD0.5PPB	
7	V30230713N07 I8260STD2.0PPB	
8	V30230713N08 I8260STD2.0PPB	
9	V30230713N09 I8260STD10PPB	
10	V30230713N10 I8260STD30PPB	
11	V30230713N11 I8260STD80PPB	
12	V30230713N12 I8260STD120PPB	
13	V30230713N13 I8260STD200PPB	
14	V30230713N14 BLK	
15	V30230713N15 BLK	
16	V30230713N16 BLK	
17	V30230713N17 BLK	
18	V30230713N18 C8260STD10PPB	
19	V30230713N19 C8260STD10PPB	
20	V30230713N20 BLK	
21	V30230713N21 BLK	
22	V30230713N22 METHOD BLK	
23	V30230713N23 MDL 0.19PPB	
24	V30230713N24 MDL 0.5PPB	
25	V30230713N25 MDL 2PPB	
26	V30230713N26 BLK	

Inst: VOA130 BFB: V9822
 Initials: PID IS/SS: V9831
 Date: 08/04/23 ICAL: V9805D,V9836
 Run: A

Method
 GC: 8260
 Autosampler: 8260
 Concentrator: 8260



QC: _____ Seq: _____

Vial	Data File				pH<2
1	V30230804ABF1	BFB TUNE	06:38		
1	V30230804A01	8260 CCAL	LCS		
2	V30230804A02	8260 CCAL	LCSD		
3	V30230804A03	8260 CCAL			
4	V30230804A04	BLK			
5	V30230804A05	METHOD BLK			
6	V30230804A06	L2343835-02,31,10,10,,A	NJ/15	FB	pH<2
7	V30230804A07	L2343835-03,31,10,10,,A	NJ/15	TB	pH<2
8	V30230804A08	L2344869-01,31,10,10,,A,R1A	NYTCL	TB	pH<2
9	V30230804A09	L2344869-02D,31,2.5,10,,A,R1A	NYTCL		pH<2
10	V30230804A10	DSTD			pH<2
11	V30230804A11	L2343039-01,31,10,10,,A	ME8260		pH<2
12	V30230804A12	L2343039-02,31,10,10,,A	ME8260		pH<2
13	V30230804A13	L2343039-03,31,10,10,,A	ME8260		pH<2
14	V30230804A14	L2343039-04,31,10,10,,A	ME8260		pH<2
15	V30230804A15	L2343288-01,31,10,10,,A	ME8260		pH<2
16	V30230804A16	L2343288-02,31,10,10,,A	ME8260		pH<2
17	V30230804A17	L2343170-01,31,10,10,,A	NY/R2		pH<2
18	V30230804A18	L2343170-02,31,10,10,,A	NY/R2		pH<2
19	V30230804A19	L2343170-03,31,10,10,,A	NY/R2		pH<2
20	V30230804A20	L2343170-04,31,10,10,,A	NY/R2	TB	pH<2
21	V30230804A21	L2342961-01,31,10,10,,A	NY/PCEBREAK		pH<2
22	V30230804A22	L2342961-10,31,10,10,,A	NY/PCEBREAK	TB	pH<2
23	V30230804A23	L2342961-02,31,10,10,,A	NY/PCEBREAK		PH>2
24	V30230804A24	L2342961-03,31,10,10,,A	NY/PCEBREAK		pH<2
25	V30230804A25	L2342961-04D,31,1.0,10,,A	NY/PCEBREAK		pH>2
26	V30230804A26	L2342961-05D,31,2.0,10,,A	NY/PCEBREAK		pH<2
27	V30230804A27	L2343170-01MS,31,10,10,,A1	NY/R2		pH<2
28	V30230804A28	L2343170-01MSD,31,10,10,,A2	NY/R2		pH<2
29	V30230804A29	HSTD			pH<2
30	V30230804A30	BLK			pH<2
31	V30230804A31	BLK			pH<2

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Surrogate Recovery Summary

Form 2

Semivolatiles

Client: LaBella Associates, P.C.
 Project Name: 42 YORK STREET

Lab Number: L2343170
 Project Number: 2230119
 Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
YS-MW-2023-01 072623 (L2343170-01)	51	33	50	73	72	66	0
MW-01 072623 (L2343170-02)	54	35	51	78	82	73	0
YS-MW-BD- 072623 (L2343170-03)	54	34	49	78	78	75	0
WG1809554-1BLANK	50	31	71	81	87	86	0
WG1809554-2LCS	58	37	72	80	89	85	0
WG1809554-3LCSD	61	40	76	87	93	86	0
YS-MW-2023-01 072623MS	50	33	67	73	89	69	0
YS-MW-2023-01 072623MSD	50	33	64	71	84	65	0

QC LIMITS

- (21-120) 2FP = 2-FLUOROPHENOL
- (10-120) PHL = PHENOL-D6
- (23-120) NBZ = NITROBENZENE-D5
- (15-120) FBP = 2-FLUOROBIPHENYL
- (10-120) TBP = 2,4,6-TRIBROMOPHENOL
- (41-149) TPH = 4-TERPHENYL-D14

* Values outside of QC limits

FORM II NYTCL-8270



Laboratory Control Sample Summary

Form 3

Semivolatiles

Client : LaBella Associates, P.C. **Lab Number** : L2343170
Project Name : 42 YORK STREET **Project Number** : 2230119
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1809554-2 **Analysis Date** : 08/02/23 02:06 **File ID** : 809554-2
LCSD Sample ID : WG1809554-3 **Analysis Date** : 08/02/23 02:30 **File ID** : 809554-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Bis(2-chloroethyl)ether	40	26.	66	40	28.	70	6	40-140	30
3,3'-Dichlorobenzidine	40	25.	62	40	26.	66	6	40-140	30
2,4-Dinitrotoluene	40	32.	79	40	33.	82	4	48-143	30
2,6-Dinitrotoluene	40	31.	77	40	33.	82	6	40-140	30
4-Chlorophenyl phenyl ether	40	32.	80	40	33.	83	4	40-140	30
4-Bromophenyl phenyl ether	40	32.	81	40	34.	85	5	40-140	30
Bis(2-chloroisopropyl)ether	40	23.	58	40	24.	60	3	40-140	30
Bis(2-chloroethoxy)methane	40	27.	68	40	28.	70	3	40-140	30
Hexachlorocyclopentadiene	40	17.	43	40	19.	48	11	40-140	30
Isophorone	40	26.	66	40	27.	68	3	40-140	30
Nitrobenzene	40	27.	67	40	28.	70	4	40-140	30
NDPA/DPA	40	32.	79	40	32.	81	3	40-140	30
n-Nitrosodi-n-propylamine	40	27.	67	40	28.	70	4	29-132	30
Bis(2-ethylhexyl)phthalate	40	33.	83	40	34.	85	2	40-140	30
Butyl benzyl phthalate	40	32.	81	40	32.	81	0	40-140	30
Di-n-butylphthalate	40	33.	82	40	33.	83	1	40-140	30
Di-n-octylphthalate	40	33.	83	40	34.	84	1	40-140	30
Diethyl phthalate	40	32.	80	40	33.	83	4	40-140	30
Dimethyl phthalate	40	30.	75	40	32.	81	8	40-140	30
Biphenyl	40	32.	79	40	34.	86	8	40-140	30
4-Chloroaniline	40	21.	53	40	23.	58	9	40-140	30
2-Nitroaniline	40	30.	75	40	32.	81	8	52-143	30
3-Nitroaniline	40	26.	64	40	28.	71	10	25-145	30
4-Nitroaniline	40	30.	76	40	32.	80	5	51-143	30
Dibenzofuran	40	32.	79	40	33.	82	4	40-140	30
1,2,4,5-Tetrachlorobenzene	40	33.	83	40	36.	89	7	2-134	30



Laboratory Control Sample Summary

Form 3

Semivolatiles

Client : LaBella Associates, P.C. **Lab Number** : L2343170
Project Name : 42 YORK STREET **Project Number** : 2230119
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1809554-2 **Analysis Date** : 08/02/23 02:06 **File ID** : 809554-2
LCSD Sample ID : WG1809554-3 **Analysis Date** : 08/02/23 02:30 **File ID** : 809554-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Acetophenone	40	31.	78	40	32.	80	3	39-129	30
2,4,6-Trichlorophenol	40	31.	79	40	34.	86	8	30-130	30
p-Chloro-m-cresol	40	30.	76	40	32.	80	5	23-97	30
2-Chlorophenol	40	30.	74	40	31.	78	5	27-123	30
2,4-Dichlorophenol	40	31.	78	40	32.	80	3	30-130	30
2,4-Dimethylphenol	40	27.	69	40	27.	68	1	30-130	30
2-Nitrophenol	40	29.	73	40	31.	78	7	30-130	30
4-Nitrophenol	40	17.	42	40	17.	43	2	10-80	30
2,4-Dinitrophenol	40	30.	75	40	31.	77	3	20-130	30
4,6-Dinitro-o-cresol	40	33.	83	40	34.	86	4	20-164	30
Phenol	40	13.	32	40	13.	32	0	12-110	30
2-Methylphenol	40	26.	64	40	26.	66	3	30-130	30
3-Methylphenol/4-Methylphenol	40	27.	67	40	28.	70	4	30-130	30
2,4,5-Trichlorophenol	40	33.	82	40	36.	89	8	30-130	30
Carbazole	40	31.	78	40	32.	81	4	55-144	30
Atrazine	40	30.	76	40	31.	77	1	40-140	30
Benzaldehyde	40	38.	96	40	41.	103	7	40-140	30
Caprolactam	40	9.7	24	40	10.	26	8	10-130	30
2,3,4,6-Tetrachlorophenol	40	32.	81	40	33.	83	2	40-140	30



Matrix Spike Sample Summary

Form 3

Semivolatiles

Client : LaBella Associates, P.C.	Lab Number : L2343170
Project Name : 42 YORK STREET	Project Number : 2230119
Client Sample ID : YS-MW-2023-01 072623	Matrix (Level) : WATER (LOW)
Lab Sample ID : L2343170-01	Analysis Date : 08/02/23 08:40
Matrix Spike : WG1809554-6	MS Analysis Date : 08/02/23 06:44
Matrix Spike Dup : WG1809554-7	MSD Analysis Date : 08/02/23 07:07

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Bis(2-chloroethyl)ether	ND	40	25.	63	40	23.	58	8	40-140	30
3,3'-Dichlorobenzidine	ND	40	22.	55	40	21.	53	5	40-140	30
2,4-Dinitrotoluene	ND	40	30.	75	40	28.	70	7	48-143	30
2,6-Dinitrotoluene	ND	40	29.	73	40	26.	65	11	40-140	30
4-Chlorophenyl phenyl ether	ND	40	28.	70	40	26.	65	7	40-140	30
4-Bromophenyl phenyl ether	ND	40	28.	70	40	26.	65	7	40-140	30
Bis(2-chloroisopropyl)ether	ND	40	26.	65	40	24.	60	8	40-140	30
Bis(2-chloroethoxy)methane	ND	40	26.	65	40	24.	60	8	40-140	30
Hexachlorocyclopentadiene	ND	40	19.J	48	40	18.J	45	5	40-140	30
Isophorone	ND	40	26.	65	40	24.	60	8	40-140	30
Nitrobenzene	ND	40	26.	65	40	25.	63	4	40-140	30
NDPA/DPA	ND	40	28.	70	40	25.	63	11	40-140	30
n-Nitrosodi-n-propylamine	ND	40	25.	63	40	24.	60	4	29-132	30
Bis(2-ethylhexyl)phthalate	ND	40	26.	65	40	25.	63	4	40-140	30
Butyl benzyl phthalate	ND	40	27.	68	40	25.	63	8	40-140	30
Di-n-butylphthalate	ND	40	27.	68	40	25.	63	8	40-140	30
Di-n-octylphthalate	ND	40	26.	65	40	24.	60	8	40-140	30
Diethyl phthalate	ND	40	27.	68	40	25.	63	8	40-140	30
Dimethyl phthalate	ND	40	28.	70	40	26.	65	7	40-140	30
Biphenyl	ND	40	30.	75	40	28.	70	7	40-140	30
4-Chloroaniline	ND	40	25.	63	40	23.	58	8	40-140	30
2-Nitroaniline	ND	40	29.	73	40	27.	68	7	52-143	30



Matrix Spike Sample Summary

Form 3

Semivolatiles

Client : LaBella Associates, P.C.	Lab Number : L2343170
Project Name : 42 YORK STREET	Project Number : 2230119
Client Sample ID : YS-MW-2023-01 072623	Matrix (Level) : WATER (LOW)
Lab Sample ID : L2343170-01	Analysis Date : 08/02/23 08:40
Matrix Spike : WG1809554-6	MS Analysis Date : 08/02/23 06:44
Matrix Spike Dup : WG1809554-7	MSD Analysis Date : 08/02/23 07:07

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
3-Nitroaniline	ND	40	24.	60	40	22.	55	9	25-145	30
4-Nitroaniline	ND	40	26.	65	40	24.	60	8	51-143	30
Dibenzofuran	ND	40	28.	70	40	26.	65	7	40-140	30
1,2,4,5-Tetrachlorobenzene	ND	40	28.	70	40	27.	68	4	2-134	30
Acetophenone	ND	40	30.	75	40	28.	70	7	39-129	30
2,4,6-Trichlorophenol	ND	40	32.	80	40	29.	73	10	30-130	30
p-Chloro-m-cresol	ND	40	29.	73	40	27.	68	7	23-97	30
2-Chlorophenol	ND	40	26.	65	40	24.	60	8	27-123	30
2,4-Dichlorophenol	ND	40	30.	75	40	28.	70	7	30-130	30
2,4-Dimethylphenol	ND	40	27.	68	40	24.	60	12	30-130	30
2-Nitrophenol	ND	40	29.	73	40	27.	68	7	30-130	30
4-Nitrophenol	ND	40	18.	45	40	18.	45	0	10-80	30
2,4-Dinitrophenol	ND	40	28.	70	40	26.	65	7	20-130	30
4,6-Dinitro-o-cresol	ND	40	33.	83	40	31.	78	6	20-164	30
Phenol	ND	40	13.	33	40	14.	35	7	12-110	30
2-Methylphenol	ND	40	25.	63	40	24.	60	4	30-130	30
3-Methylphenol/4-Methylphenol	ND	40	27.	68	40	25.	63	8	30-130	30
2,4,5-Trichlorophenol	ND	40	31.	78	40	29.	73	7	30-130	30
Carbazole	ND	40	28.	70	40	26.	65	7	55-144	30
Atrazine	ND	40	28.	70	40	26.	65	7	40-140	30
Benzaldehyde	ND	40	35.	88	40	34.	85	3	40-140	30
Caprolactam	ND	40	9.8J	25	40	9.2J	23	6	10-130	30



Matrix Spike Sample Summary

Form 3

Semivolatiles

Client : LaBella Associates, P.C.	Lab Number : L2343170
Project Name : 42 YORK STREET	Project Number : 2230119
Client Sample ID : YS-MW-2023-01 072623	Matrix (Level) : WATER (LOW)
Lab Sample ID : L2343170-01	Analysis Date : 08/02/23 08:40
Matrix Spike : WG1809554-6	MS Analysis Date : 08/02/23 06:44
Matrix Spike Dup : WG1809554-7	MSD Analysis Date : 08/02/23 07:07

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
2,3,4,6-Tetrachlorophenol	ND	40	29.	73	40	26.	65	11	40-140	30



**Method Blank Summary
Form 4
Semivolatiles**

Client	: LaBella Associates, P.C.	Lab Number	: L2343170
Project Name	: 42 YORK STREET	Project Number	: 2230119
Lab Sample ID	: WG1809554-1	Lab File ID	: 809554-1
Instrument ID	: JULIET	Extraction Date	: 07/30/23
Matrix	: WATER	Analysis Date	: 08/02/23 01:43
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1809554-2LCS	WG1809554-2	08/02/23 02:06
WG1809554-3LCSD	WG1809554-3	08/02/23 02:30
YS-MW-2023-01 072623MS	WG1809554-6	08/02/23 06:44
YS-MW-2023-01 072623MSD	WG1809554-7	08/02/23 07:07
YS-MW-2023-01 072623	L2343170-01	08/02/23 08:40
YS-MW-BD- 072623	L2343170-03	08/02/23 09:27
MW-01 072623	L2343170-02	08/02/23 10:37



**Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)**

Client : LaBella Associates, P.C.	Lab Number : L2343170
Project Name : 42 YORK STREET	Project Number : 2230119
Instrument ID : SV109	Analysis Date : 05/31/23 19:45
Tune Standard : R1704130-34	Tune File ID : Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	38.2
68	Less than 2.0% of mass 69	0.4 (.9)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	52.5
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	27.4
365	Greater than 1.0% of mass 198	3.2
441	Present, but less than 24% of mass 442	15.9
442	Base Peak, or >50% of mass 198	61.3
443	15.0 - 24.0% of mass 442	11.3 (18.5)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL10	R1704130-2	ABNL10	05/31/23 20:09
ABNL9	R1704130-10	ABNL9	05/31/23 20:32
ABNL8	R1704130-9	ABNL8	05/31/23 20:55
ABNL7	R1704130-8	ABNL7	05/31/23 21:19
ABNL6	R1704130-6	ABNL6	05/31/23 21:42
ABNL5	R1704130-7	ABNL5	05/31/23 22:05
ABNL4	R1704130-5	ABNL4	05/31/23 22:28
ABNL3	R1704130-4	ABNL3	05/31/23 22:52
ABNL2	R1704130-3	ABNL2	05/31/23 23:15
ABNL1	R1704130-1	ABNL1	05/31/23 23:38
AP9L10a	R1704130-21	AP9L10A	06/01/23 07:10
AP9L9a	R1704130-29	AP9L9A	06/01/23 07:34



**Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)**

Client	: LaBella Associates, P.C.	Lab Number	: L2343170
Project Name	: 42 YORK STREET	Project Number	: 2230119
Instrument ID	: SV109	Analysis Date	: 06/06/23 13:37
Tune Standard	: R1704130-35	Tune File ID	: Tune2a_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	37.1
68	Less than 2.0% of mass 69	0.6 (1.4)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	52.3
197	Less than 2.0% of mass 198	0.1
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	26.2
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than 24% of mass 442	16.2
442	Base Peak, or >50% of mass 198	55.8
443	15.0 - 24.0% of mass 442	10.5 (18.9)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL10a	R1704130-13	ADPL10A	06/06/23 15:57
ADPL9a	R1704130-20	ADPL9A	06/06/23 16:21
ADPL8a	R1704130-17	ADPL8A	06/06/23 16:44
ADPL7a	R1704130-18	ADPL7A	06/06/23 17:08
ADPL6a	R1704130-19	ADPL6A	06/06/23 17:32
ADPL5a	R1704130-14	ADPL5A	06/06/23 17:56
ADPL4a	R1704130-15	ADPL4A	06/06/23 18:19
ADPL3a	R1704130-16	ADPL3A	06/06/23 18:43
ADPL2a	R1704130-12	ADPL2A	06/06/23 19:06
ADPL1a	R1704130-11	ADPL1A	06/06/23 19:30
ADP ICV Quant Report	R1704130-32	ADPICVA	06/06/23 19:53



**Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)**

Client	: LaBella Associates, P.C.	Lab Number	: L2343170
Project Name	: 42 YORK STREET	Project Number	: 2230119
Instrument ID	: SV109	Analysis Date	: 08/01/23 23:33
Tune Standard	: WG1810592-1	Tune File ID	: DEG0801n_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	40.9
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	54.8
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 60.0% of Base Peak	26.1
365	Greater than 1.0% of mass 198	3.1
441	Present, but less than 24% of mass 442	16.2
442	Base Peak, or >50% of mass 198	70.3
443	15.0 - 24.0% of mass 442	13.4 (19.1)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1810592-6TFACTOR-P	WG1810592-6	DEG0801N	08/01/23 23:33
WG1810592-7TFACTOR-B	WG1810592-7	DEG0801N	08/01/23 23:33
WG1810592-3CCAL	WG1810592-3	ABN0801N	08/01/23 23:57
WG1810592-4CCAL	WG1810592-4	AP90801N	08/02/23 00:20
WG1810592-5CCAL	WG1810592-5	ADP0801N	08/02/23 00:43
WG1809554-6MS	WG1809554-6	809554-6	08/02/23 06:44
WG1809554-7MSD	WG1809554-7	809554-7	08/02/23 07:07
YS-MW-2023-01 072623	L2343170-01	43170-01	08/02/23 08:40
YS-MW-BD- 072623	L2343170-03	43170-03	08/02/23 09:27
MW-01 072623	L2343170-02	43170-02	08/02/23 10:37



Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: LaBella Associates, P.C.	Lab Number	: L2343170
Project Name	: 42 YORK STREET	Project Number	: 2230119
Instrument ID	: JULIET	Analysis Date	: 07/20/23 22:57
Tune Standard	: R1720899-34	Tune File ID	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	32.5
68	Less than 2.0% of mass 69	0.6 (1.5)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	49.5
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 60.0% of Base Peak	24.9
365	Greater than 1.0% of mass 198	2.7
441	Present, but less than 24% of mass 442	17.8
442	Base Peak, or >50% of mass 198	83.8
443	15.0 - 24.0% of mass 442	16.2 (19.4)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL10	R1720899-2	ABNL10	07/20/23 23:20
ABNL9	R1720899-10	ABNL9	07/20/23 23:44
ABNL8	R1720899-9	ABNL8	07/21/23 00:08
ABNL7	R1720899-8	ABNL7	07/21/23 00:31
ABNL6	R1720899-7	ABNL6	07/21/23 00:55
ABNL5	R1720899-6	ABNL5	07/21/23 01:19
ABNL4	R1720899-5	ABNL4	07/21/23 01:42
ABNL3	R1720899-4	ABNL3	07/21/23 02:06
ABNL2	R1720899-3	ABNL2	07/21/23 02:30
ABNL1	R1720899-1	ABNL1	07/21/23 02:53
AP9L10	R1720899-22	AP9L10	07/21/23 03:17
AP9L9	R1720899-30	AP9L9	07/21/23 03:41
AP9L8	R1720899-29	AP9L8	07/21/23 04:04
AP9L7	R1720899-27	AP9L7	07/21/23 04:28
AP9L6	R1720899-28	AP9L6	07/21/23 04:52
AP9L5	R1720899-26	AP9L5	07/21/23 05:16
AP9L4	R1720899-25	AP9L4	07/21/23 05:39
AP9L3	R1720899-24	AP9L3	07/21/23 06:03
AP9L2	R1720899-23	AP9L2	07/21/23 06:27
AP9L1	R1720899-20	AP9L1	07/21/23 06:51
ABN ICV Quant Report	R1720899-31	ABNICV	07/21/23 07:14
AP9 ICV Quant Report	R1720899-33	AP9ICV	07/21/23 07:38



**Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)**

Client : LaBella Associates, P.C.	Lab Number : L2343170
Project Name : 42 YORK STREET	Project Number : 2230119
Instrument ID : JULIET	Analysis Date : 07/21/23 08:02
Tune Standard : R1720899-35	Tune File ID : Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	31.6
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.1 (.4)1
127	10.0 - 80.0% of Base Peak	49.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	26.1
365	Greater than 1.0% of mass 198	3.1
441	Present, but less than 24% of mass 442	17.5
442	Base Peak, or >50% of mass 198	95.2
443	15.0 - 24.0% of mass 442	18.2 (19.1)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL10	R1720899-11	ADPL10	07/21/23 08:26
ADPL9	R1720899-21	ADPL9	07/21/23 08:50
ADPL8	R1720899-18	ADPL8	07/21/23 09:13
ADPL7	R1720899-19	ADPL7	07/21/23 09:37
ADPL6	R1720899-16	ADPL6	07/21/23 10:01
ADPL5	R1720899-17	ADPL5	07/21/23 10:25
ADPL4	R1720899-15	ADPL4	07/21/23 10:49
ADPL3	R1720899-13	ADPL3	07/21/23 11:13
ADPL2	R1720899-14	ADPL2	07/21/23 11:37
ADPL1	R1720899-12	ADPL1	07/21/23 12:01
ADP ICV Quant Report	R1720899-32	ADPICV	07/21/23 12:25



**Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)**

Client : LaBella Associates, P.C.	Lab Number : L2343170
Project Name : 42 YORK STREET	Project Number : 2230119
Instrument ID : JULIET	Analysis Date : 08/01/23 22:57
Tune Standard : WG1810591-1	Tune File ID : DEG00801n_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	30.3
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	47.5
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	26.1
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	18.4
442	Base Peak, or >50% of mass 198	96.9
443	15.0 - 24.0% of mass 442	18.9 (19.5)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1810591-6TFACTOR-P	WG1810591-6	DEG00801N	08/01/23 22:57
WG1810591-7TFACTOR-B	WG1810591-7	DEG00801N	08/01/23 22:57
WG1810591-3CCAL	WG1810591-3	ABN0801N	08/01/23 23:21
WG1810591-4CCAL	WG1810591-4	AP90801N	08/01/23 23:44
WG1810591-5CCAL	WG1810591-5	ADP0801N	08/02/23 00:08
WG1809554-1BLANK	WG1809554-1	809554-1	08/02/23 01:43
WG1809554-2LCS	WG1809554-2	809554-2	08/02/23 02:06
WG1809554-3LCSD	WG1809554-3	809554-3	08/02/23 02:30



**Internal Standard Area and RT Summary
Form 8a
Semivolatiles**

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : JULIET
Sample No : WG1810591-3

Lab Number : L2343170
Project Number : 2230119
Analysis Date : 08/01/23 23:21:00
Lab File ID : ABN0801N

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1810591-3	216721	3.32	758234	4.41	451048	5.92
Upper Limit	433442	3.82	1516468	4.91	902096	6.42
Lower Limit	108361	2.82	379117	3.91	225524	5.42
Sample ID						
WG1810591-4 CCAL	242524	3.32	843065	4.41	502187	5.92
WG1810591-5 CCAL	233446	3.32	-	-	513461	5.92
WG1809554-1 BLANK	207586	3.32	749763	4.41	447048	5.92
WG1809554-2 LCS	209094	3.32	754589	4.41	443939	5.92
WG1809554-3 LCSD	213771	3.32	741374	4.41	444712	5.92

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits



Internal Standard Area and RT Summary

Form 8a

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : JULIET
 Sample No : WG1810591-3

Lab Number : L2343170
 Project Number : 2230119
 Analysis Date : 08/01/23 23:21:00
 Lab File ID : ABN0801N

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1810591-3	1011690	7.19	1043233	9.59	1222692	11.48
Upper Limit	2023380	7.69	2086466	10.09	2445384	11.98
Lower Limit	505845	6.69	521617	9.09	611346	10.98
Sample ID						
WG1810591-4 CCAL	1133653	7.19	-	-	-	-
WG1810591-5 CCAL	1127462	7.19	-	-	-	-
WG1809554-1 BLANK	987543	7.19	1049095	9.59	1291299	11.47
WG1809554-2 LCS	971899	7.19	1025382	9.59	1174566	11.48
WG1809554-3 LCSD	975939	7.19	1025562	9.59	1150483	11.48

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits



Internal Standard Area and RT Summary

Form 8a

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : SV109
 Sample No : WG1810592-3

Lab Number : L2343170
 Project Number : 2230119
 Analysis Date : 08/01/23 23:57:00
 Lab File ID : ABN0801N

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1810592-3	268648	4.10	1035506	5.35	585086	7.05
Upper Limit	537296	4.60	2071012	5.85	1170172	7.55
Lower Limit	134324	3.60	517753	4.85	292543	6.55
Sample ID						
WG1810592-4 CCAL	292844	4.10	1138171	5.35	646970	7.04
WG1810592-5 CCAL	265592	4.10	-	-	587706	7.05
YS-MW-2023-01 072623 MS	254063	4.10	1021995	5.35	584298	7.05
YS-MW-2023-01 072623 MSD	258596	4.10	1035886	5.35	591565	7.05
YS-MW-2023-01 072623	228443	4.10	955982	5.35	557944	7.05
YS-MW-BD- 072623	263767	4.10	1073531	5.35	602941	7.05
MW-01 072623	272343	4.10	1135420	5.35	653937	7.05

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits



Internal Standard Area and RT Summary

Form 8a

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : SV109
 Sample No : WG1810592-3

Lab Number : L2343170
 Project Number : 2230119
 Analysis Date : 08/01/23 23:57:00
 Lab File ID : ABN0801N

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1810592-3	1270325	8.47	1162834	11.11	1262089	13.01
Upper Limit	2540650	8.97	2325668	11.61	2524178	13.51
Lower Limit	635163	7.97	581417	10.61	631045	12.51
Sample ID						
WG1810592-4 CCAL	1430353	8.47	-	-	-	-
WG1810592-5 CCAL	1295083	8.47	-	-	-	-
YS-MW-2023-01 072623 MS	1262471	8.47	1158177	11.12	1251372	13.02
YS-MW-2023-01 072623 MSD	1266901	8.47	1136202	11.12	1234675	13.02
YS-MW-2023-01 072623	1191168	8.48	970549	11.12	1038289	13.03
YS-MW-BD- 072623	1297185	8.48	1118720	11.12	1209135	13.03
MW-01 072623	1402532	8.47	1224234	11.12	1328265	13.02

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits





Date Created: 03/07/23
 Created By: Jason Hebert
 File: PM14021-1
 Page: 1

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
 Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Acenaphthene	83-32-9	2	1.06	ug/l	37-111	30	37-111	30	30	
Benzidine	92-87-5	20	8.14	ug/l	10-75	30	10-75	30	30	
1,2,4-Trichlorobenzene	120-82-1	5	0.581	ug/l	39-98	30	39-98	30	30	
Hexachlorobenzene	118-74-1	2	0.69	ug/l	40-140	30	40-140	30	30	
Bis(2-chloroethyl)ether	111-44-4	2	0.884	ug/l	40-140	30	40-140	30	30	
2-Chloronaphthalene	91-58-7	2	0.538	ug/l	40-140	30	40-140	30	30	
1,2-Dichlorobenzene	95-50-1	2	0.636	ug/l	40-140	30	40-140	30	30	
1,3-Dichlorobenzene	541-73-1	2	0.642	ug/l	40-140	30	40-140	30	30	
1,4-Dichlorobenzene	106-46-7	2	0.463	ug/l	36-97	30	36-97	30	30	
3,3'-Dichlorobenzidine	91-94-1	5	0.854	ug/l	40-140	30	40-140	30	30	
2,4-Dinitrotoluene	121-14-2	5	0.382	ug/l	48-143	30	48-143	30	30	
2,6-Dinitrotoluene	606-20-2	5	0.368	ug/l	40-140	30	40-140	30	30	
Azobenzene	122-66-7	2	0.81	ug/l	40-140	30	40-140	30	30	
Fluoranthene	206-44-0	2	0.653	ug/l	40-140	30	40-140	30	30	
4-Chlorophenyl phenyl ether	7005-72-3	2	0.795	ug/l	40-140	30	40-140	30	30	
4-Bromophenyl phenyl ether	101-55-3	2	0.632	ug/l	40-140	30	40-140	30	30	
Bis(2-chloroisopropyl)ether	108-60-1	2	1.75	ug/l	40-140	30	40-140	30	30	
Bis(2-chloroethoxy)methane	111-91-1	5	1.49	ug/l	40-140	30	40-140	30	30	
Hexachlorobutadiene	87-68-3	2	0.6	ug/l	40-140	30	40-140	30	30	
Hexachlorocyclopentadiene	77-47-4	20	0.606	ug/l	40-140	30	40-140	30	30	
Hexachloroethane	67-72-1	2	0.44	ug/l	40-140	30	40-140	30	30	
Isophorone	78-59-1	5	0.657	ug/l	40-140	30	40-140	30	30	
Naphthalene	91-20-3	2	0.669	ug/l	40-140	30	40-140	30	30	
Nitrobenzene	98-95-3	2	0.656	ug/l	40-140	30	40-140	30	30	
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.65	ug/l	40-140	30	40-140	30	30	
n-Nitrosodi-n-propylamine	621-64-7	5	0.771	ug/l	29-132	30	29-132	30	30	
Bis(2-Ethylhexyl)phthalate	117-81-7	3	1.51	ug/l	40-140	30	40-140	30	30	
Butyl benzyl phthalate	85-68-7	5	2.18	ug/l	40-140	30	40-140	30	30	
Di-n-butylphthalate	84-74-2	5	0.58	ug/l	40-140	30	40-140	30	30	
Di-n-octylphthalate	117-84-0	5	2.39	ug/l	40-140	30	40-140	30	30	
Diethyl phthalate	84-66-2	5	4.3	ug/l	40-140	30	40-140	30	30	
Dimethyl phthalate	131-11-3	5	4.44	ug/l	40-140	30	40-140	30	30	
Benzo(a)anthracene	56-55-3	2	0.767	ug/l	40-140	30	40-140	30	30	
Benzo(a)pyrene	50-32-8	2	0.447	ug/l	40-140	30	40-140	30	30	
Benzo(b)fluoranthene	205-99-2	2	0.814	ug/l	40-140	30	40-140	30	30	
Benzo(k)fluoranthene	207-08-9	2	0.816	ug/l	40-140	30	40-140	30	30	
Chrysene	218-01-9	2	0.828	ug/l	40-140	30	40-140	30	30	
Acenaphthylene	208-96-8	2	0.59	ug/l	45-123	30	45-123	30	30	
Anthracene	120-12-7	2	0.79	ug/l	40-140	30	40-140	30	30	
Benzo(ghi)perylene	191-24-2	2	0.77	ug/l	40-140	30	40-140	30	30	
Fluorene	86-73-7	2	1.05	ug/l	40-140	30	40-140	30	30	
Phenanthrene	85-01-8	2	0.992	ug/l	40-140	30	40-140	30	30	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Date Created: 03/07/23
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 File: PM14021-1
 Page: 2

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
 Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Dibenzo(a,h)anthracene	53-70-3	2	0.452	ug/l	40-140	30	40-140	30	30	
Indeno(1,2,3-cd)Pyrene	193-39-5	2	0.943	ug/l	40-140	30	40-140	30	30	
Pyrene	129-00-0	2	0.704	ug/l	26-127	30	26-127	30	30	
Biphenyl	92-52-4	2	0.635	ug/l	40-140	30	40-140	30	30	
Aniline	62-53-3	2	0.482	ug/l	40-140	30	40-140	30	30	
4-Chloroaniline	106-47-8	5	0.647	ug/l	40-140	30	40-140	30	30	
1-Methylnaphthalene	90-12-0	2	0.595	ug/l	41-103	30	41-103	30	30	
2-Nitroaniline	88-74-4	5	0.519	ug/l	52-143	30	52-143	30	30	
3-Nitroaniline	99-09-2	5	0.574	ug/l	25-145	30	25-145	30	30	
4-Nitroaniline	100-01-6	5	0.581	ug/l	51-143	30	51-143	30	30	
Dibenzofuran	132-64-9	2	0.823	ug/l	40-140	30	40-140	30	30	
2-Methylnaphthalene	91-57-6	2	0.677	ug/l	40-140	30	40-140	30	30	
n-Nitrosodimethylamine	62-75-9	2	0.524	ug/l	22-74	30	22-74	30	30	
2,4,6-Trichlorophenol	88-06-2	5	0.494	ug/l	30-130	30	30-130	30	30	
p-Chloro-M-Cresol	59-50-7	2	0.406	ug/l	23-97	30	23-97	30	30	
2-Chlorophenol	95-57-8	2	0.405	ug/l	27-123	30	27-123	30	30	
2,4-Dichlorophenol	120-83-2	5	0.527	ug/l	30-130	30	30-130	30	30	
2,4-Dimethylphenol	105-67-9	5	1.1	ug/l	30-130	30	30-130	30	30	
2-Nitrophenol	88-75-5	10	0.463	ug/l	30-130	30	30-130	30	30	
4-Nitrophenol	100-02-7	10	1.14	ug/l	10-80	30	10-80	30	30	
2,4-Dinitrophenol	51-28-5	20	3.55	ug/l	20-130	30	20-130	30	30	
4,6-Dinitro-o-cresol	534-52-1	10	5.42	ug/l	20-164	30	20-164	30	30	
Pentachlorophenol	87-86-5	10	1.95	ug/l	9-103	30	9-103	30	30	
Phenol	108-95-2	5	1.3	ug/l	12-110	30	12-110	30	30	
2-Methylphenol	95-48-7	5	1.1	ug/l	30-130	30	30-130	30	30	
3-Methylphenol/4-Methylphenol	106-44-5	5	0.55	ug/l	30-130	30	30-130	30	30	
2,4,5-Trichlorophenol	95-95-4	5	0.381	ug/l	30-130	30	30-130	30	30	
Benzoic Acid	65-85-0	50	12.9	ug/l	10-164	30	10-164	30	30	
Benzyl Alcohol	100-51-6	2	0.698	ug/l	26-116	30	26-116	30	30	
Carbazole	86-74-8	2	0.759	ug/l	55-144	30	55-144	30	30	
Pyridine	110-86-1	3.5	0.905	ug/l	10-66	30	10-66	30	30	
2-Fluorophenol	367-12-4									21-120
Phenol-d6	13127-88-3									10-120
Nitrobenzene-d5	4165-60-0									23-120
2-Fluorobiphenyl	321-60-8									15-120
2,4,6-Tribromophenol	118-79-6									10-120
4-Terphenyl-d14	1718-51-0									41-149

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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 Created By: Jason Hebert
 File: PM14022-1
 Page: 1

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - Glass 250ml/8oz unreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Acenaphthene	83-32-9	133.6	17.3012	ug/kg	31-137	50	31-137	50	50	
Benzidine	92-87-5	551.1	181.028	ug/kg	10-66	50	10-66	50	50	
1,2,4-Trichlorobenzene	120-82-1	167	19.1048	ug/kg	38-107	50	38-107	50	50	
Hexachlorobenzene	118-74-1	100.2	18.704	ug/kg	40-140	50	40-140	50	50	
Bis(2-chloroethyl)ether	111-44-4	150.3	22.6452	ug/kg	40-140	50	40-140	50	50	
2-Chloronaphthalene	91-58-7	167	16.5664	ug/kg	40-140	50	40-140	50	50	
1,2-Dichlorobenzene	95-50-1	167	29.9932	ug/kg	40-140	50	40-140	50	50	
1,3-Dichlorobenzene	541-73-1	167	28.724	ug/kg	40-140	50	40-140	50	50	
1,4-Dichlorobenzene	106-46-7	167	29.1582	ug/kg	28-104	50	28-104	50	50	
3,3'-Dichlorobenzidine	91-94-1	167	44.422	ug/kg	40-140	50	40-140	50	50	
2,4-Dinitrotoluene	121-14-2	167	33.4	ug/kg	40-132	50	40-132	50	50	
2,6-Dinitrotoluene	606-20-2	167	28.6572	ug/kg	40-140	50	40-140	50	50	
Azobenzene	122-66-7	167	16.032	ug/kg	40-140	50	40-140	50	50	
Fluoranthene	206-44-0	100.2	19.1716	ug/kg	40-140	50	40-140	50	50	
4-Chlorophenyl phenyl ether	7005-72-3	167	17.869	ug/kg	40-140	50	40-140	50	50	
4-Bromophenyl phenyl ether	101-55-3	167	25.4842	ug/kg	40-140	50	40-140	50	50	
Bis(2-chloroisopropyl)ether	108-60-1	200.4	28.5236	ug/kg	40-140	50	40-140	50	50	
Bis(2-chloroethoxy)methane	111-91-1	180.36	16.7334	ug/kg	40-117	50	40-117	50	50	
Hexachlorobutadiene	87-68-3	167	24.4488	ug/kg	40-140	50	40-140	50	50	
Hexachlorocyclopentadiene	77-47-4	477.62	151.302	ug/kg	40-140	50	40-140	50	50	
Hexachloroethane	67-72-1	133.6	27.0206	ug/kg	40-140	50	40-140	50	50	
Isophorone	78-59-1	150.3	21.6766	ug/kg	40-140	50	40-140	50	50	
Naphthalene	91-20-3	167	20.3406	ug/kg	40-140	50	40-140	50	50	
Nitrobenzene	98-95-3	150.3	24.716	ug/kg	40-140	50	40-140	50	50	
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	133.6	19.0046	ug/kg	36-157	50	36-157	50	50	
n-Nitrosodi-n-propylamine	621-64-7	167	25.7848	ug/kg	32-121	50	32-121	50	50	
Bis(2-Ethylhexyl)phthalate	117-81-7	167	57.782	ug/kg	40-140	50	40-140	50	50	
Butyl benzyl phthalate	85-68-7	167	42.084	ug/kg	40-140	50	40-140	50	50	
Di-n-butylphthalate	84-74-2	167	31.6632	ug/kg	40-140	50	40-140	50	50	
Di-n-octylphthalate	117-84-0	167	56.78	ug/kg	40-140	50	40-140	50	50	
Diethyl phthalate	84-66-2	167	15.4642	ug/kg	40-140	50	40-140	50	50	
Dimethyl phthalate	131-11-3	167	35.07	ug/kg	40-140	50	40-140	50	50	
Benzo(a)anthracene	56-55-3	100.2	18.8042	ug/kg	40-140	50	40-140	50	50	
Benzo(a)pyrene	50-32-8	133.6	40.748	ug/kg	40-140	50	40-140	50	50	
Benzo(b)fluoranthene	205-99-2	100.2	28.1228	ug/kg	40-140	50	40-140	50	50	
Benzo(k)fluoranthene	207-08-9	100.2	26.72	ug/kg	40-140	50	40-140	50	50	
Chrysene	218-01-9	100.2	17.368	ug/kg	40-140	50	40-140	50	50	
Acenaphthylene	208-96-8	133.6	25.7848	ug/kg	40-140	50	40-140	50	50	
Anthracene	120-12-7	100.2	32.565	ug/kg	40-140	50	40-140	50	50	
Benzo(ghi)perylene	191-24-2	133.6	19.6392	ug/kg	40-140	50	40-140	50	50	
Fluorene	86-73-7	167	16.2324	ug/kg	40-140	50	40-140	50	50	
Phenanthrene	85-01-8	100.2	20.3072	ug/kg	40-140	50	40-140	50	50	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 2

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	100.2	19.3052	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	133.6	23.2798	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	100.2	16.5998	ug/kg	35-142	50	35-142	50	50			
Biphenyl	92-52-4	380.76	21.71	ug/kg	37-127	50	37-127	50	50			
Aniline	62-53-3	200.4	78.824	ug/kg	40-140	50	40-140	50	50			
4-Chloroaniline	106-47-8	167	30.394	ug/kg	40-140	50	40-140	50	50			
1-Methylnaphthalene	90-12-0	167	19.372	ug/kg	26-130	50	26-130	50	50			
2-Nitroaniline	88-74-4	167	32.1976	ug/kg	47-134	50	47-134	50	50			
3-Nitroaniline	99-09-2	167	31.4962	ug/kg	26-129	50	26-129	50	50			
4-Nitroaniline	100-01-6	167	69.138	ug/kg	41-125	50	41-125	50	50			
Dibenzofuran	132-64-9	167	15.7982	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	200.4	20.1736	ug/kg	40-140	50	40-140	50	50			
n-Nitrosodimethylamine	62-75-9	334	32.064	ug/kg	22-100	50	22-100	50	50			
2,4,6-Trichlorophenol	88-06-2	100.2	31.6632	ug/kg	30-130	50	30-130	50	50			
p-Chloro-M-Cresol	59-50-7	167	24.883	ug/kg	26-103	50	26-103	50	50			
2-Chlorophenol	95-57-8	167	19.7394	ug/kg	25-102	50	25-102	50	50			
2,4-Dichlorophenol	120-83-2	150.3	26.8536	ug/kg	30-130	50	30-130	50	50			
2,4-Dimethylphenol	105-67-9	167	55.11	ug/kg	30-130	50	30-130	50	50			
2-Nitrophenol	88-75-5	360.72	62.792	ug/kg	30-130	50	30-130	50	50			
4-Nitrophenol	100-02-7	233.8	68.136	ug/kg	11-114	50	11-114	50	50			
2,4-Dinitrophenol	51-28-5	801.6	77.822	ug/kg	4-130	50	4-130	50	50			
4,6-Dinitro-o-cresol	534-52-1	434.2	80.16	ug/kg	10-130	50	10-130	50	50			
Pentachlorophenol	87-86-5	133.6	36.74	ug/kg	17-109	50	17-109	50	50			
Phenol	108-95-2	167	25.217	ug/kg	26-90	50	26-90	50	50			
2-Methylphenol	95-48-7	167	25.885	ug/kg	30-130	50	30-130	50	50			
3-Methylphenol/4-Methylphenol	106-44-5	240.48	26.1522	ug/kg	30-130	50	30-130	50	50			
2,4,5-Trichlorophenol	95-95-4	167	31.9972	ug/kg	30-130	50	30-130	50	50			
Benzoic Acid	65-85-0	541.08	169.004	ug/kg	10-110	50	10-110	50	50			
Benzyl Alcohol	100-51-6	167	51.102	ug/kg	40-140	50	40-140	50	50			
Carbazole	86-74-8	167	16.2324	ug/kg	54-128	50	54-128	50	50			
Pyridine	110-86-1	180.36	63.46	ug/kg	10-93	50	10-93	50	50			
2-Fluorophenol	367-12-4											25-120
Phenol-d6	13127-88-3											10-120
Nitrobenzene-d5	4165-60-0											23-120
2-Fluorobiphenyl	321-60-8											30-120
2,4,6-Tribromophenol	118-79-6											10-136
4-Terphenyl-d14	1718-51-0											18-120

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-01
 Client ID : YS-MW-2023-01 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 43170-01
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 10:45
 Date Received : 07/26/23
 Date Analyzed : 08/02/23 08:40
 Date Extracted : 07/30/23
 Dilution Factor : 1
 Analyst : SLR
 Instrument ID : SV109
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.88	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.85	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.38	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.37	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.80	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.63	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	1.8	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	1.5	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.61	U
78-59-1	Isophorone	ND	5.0	0.66	U
98-95-3	Nitrobenzene	ND	2.0	0.66	U
86-30-6	NDPA/DPA	ND	2.0	0.65	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.77	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.58	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.4	U
84-66-2	Diethyl phthalate	ND	5.0	4.3	U
131-11-3	Dimethyl phthalate	ND	5.0	4.4	U
92-52-4	Biphenyl	ND	2.0	0.64	U
106-47-8	4-Chloroaniline	ND	5.0	0.65	U
88-74-4	2-Nitroaniline	ND	5.0	0.52	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-01
 Client ID : YS-MW-2023-01 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 43170-01
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 10:45
 Date Received : 07/26/23
 Date Analyzed : 08/02/23 08:40
 Date Extracted : 07/30/23
 Dilution Factor : 1
 Analyst : SLR
 Instrument ID : SV109
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
99-09-2	3-Nitroaniline	ND	5.0	0.57	U
100-01-6	4-Nitroaniline	ND	5.0	0.58	U
132-64-9	Dibenzofuran	ND	2.0	0.82	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.62	U
98-86-2	Acetophenone	ND	5.0	0.98	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.49	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.41	U
95-57-8	2-Chlorophenol	ND	2.0	0.40	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.53	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	U
88-75-5	2-Nitrophenol	ND	10	0.46	U
100-02-7	4-Nitrophenol	ND	10	1.1	U
51-28-5	2,4-Dinitrophenol	ND	20	3.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.4	U
108-95-2	Phenol	ND	5.0	1.3	U
95-48-7	2-Methylphenol	ND	5.0	1.1	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.55	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.38	U
86-74-8	Carbazole	ND	2.0	0.76	U
1912-24-9	Atrazine	ND	10	1.7	U
100-52-7	Benzaldehyde	ND	5.0	0.90	U
105-60-2	Caprolactam	ND	10	1.3	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C. Project Name : 42 YORK STREET Lab ID : L2343170-01 Client ID : YS-MW-2023-01 072623 Sample Location : ROCHESTER, NY Sample Matrix : WATER Analytical Method : 1,8270E Lab File ID : 43170-01 Sample Amount : 1000 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2343170 Project Number : 2230119 Date Collected : 07/26/23 10:45 Date Received : 07/26/23 Date Analyzed : 08/02/23 08:40 Date Extracted : 07/30/23 Dilution Factor : 1 Analyst : SLR Instrument ID : SV109 GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
--	---

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.47	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-02
 Client ID : MW-01 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 43170-02
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 13:10
 Date Received : 07/26/23
 Date Analyzed : 08/02/23 10:37
 Date Extracted : 07/30/23
 Dilution Factor : 1
 Analyst : SLR
 Instrument ID : SV109
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.88	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.85	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.38	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.37	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.80	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.63	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	1.8	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	1.5	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.61	U
78-59-1	Isophorone	ND	5.0	0.66	U
98-95-3	Nitrobenzene	ND	2.0	0.66	U
86-30-6	NDPA/DPA	ND	2.0	0.65	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.77	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.58	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.4	U
84-66-2	Diethyl phthalate	ND	5.0	4.3	U
131-11-3	Dimethyl phthalate	ND	5.0	4.4	U
92-52-4	Biphenyl	ND	2.0	0.64	U
106-47-8	4-Chloroaniline	ND	5.0	0.65	U
88-74-4	2-Nitroaniline	ND	5.0	0.52	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-02
 Client ID : MW-01 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 43170-02
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 13:10
 Date Received : 07/26/23
 Date Analyzed : 08/02/23 10:37
 Date Extracted : 07/30/23
 Dilution Factor : 1
 Analyst : SLR
 Instrument ID : SV109
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
99-09-2	3-Nitroaniline	ND	5.0	0.57	U
100-01-6	4-Nitroaniline	ND	5.0	0.58	U
132-64-9	Dibenzofuran	ND	2.0	0.82	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.62	U
98-86-2	Acetophenone	ND	5.0	0.98	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.49	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.41	U
95-57-8	2-Chlorophenol	ND	2.0	0.40	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.53	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	U
88-75-5	2-Nitrophenol	ND	10	0.46	U
100-02-7	4-Nitrophenol	ND	10	1.1	U
51-28-5	2,4-Dinitrophenol	ND	20	3.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.4	U
108-95-2	Phenol	ND	5.0	1.3	U
95-48-7	2-Methylphenol	ND	5.0	1.1	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.55	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.38	U
86-74-8	Carbazole	ND	2.0	0.76	U
1912-24-9	Atrazine	ND	10	1.7	U
100-52-7	Benzaldehyde	ND	5.0	0.90	U
105-60-2	Caprolactam	ND	10	1.3	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C. Project Name : 42 YORK STREET Lab ID : L2343170-02 Client ID : MW-01 072623 Sample Location : ROCHESTER, NY Sample Matrix : WATER Analytical Method : 1,8270E Lab File ID : 43170-02 Sample Amount : 1000 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2343170 Project Number : 2230119 Date Collected : 07/26/23 13:10 Date Received : 07/26/23 Date Analyzed : 08/02/23 10:37 Date Extracted : 07/30/23 Dilution Factor : 1 Analyst : SLR Instrument ID : SV109 GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
--	---

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.47	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-03
 Client ID : YS-MW-BD- 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 43170-03
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 00:00
 Date Received : 07/26/23
 Date Analyzed : 08/02/23 09:27
 Date Extracted : 07/30/23
 Dilution Factor : 1
 Analyst : SLR
 Instrument ID : SV109
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.88	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.85	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.38	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.37	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.80	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.63	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	1.8	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	1.5	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.61	U
78-59-1	Isophorone	ND	5.0	0.66	U
98-95-3	Nitrobenzene	ND	2.0	0.66	U
86-30-6	NDPA/DPA	ND	2.0	0.65	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.77	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.58	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.4	U
84-66-2	Diethyl phthalate	ND	5.0	4.3	U
131-11-3	Dimethyl phthalate	ND	5.0	4.4	U
92-52-4	Biphenyl	ND	2.0	0.64	U
106-47-8	4-Chloroaniline	ND	5.0	0.65	U
88-74-4	2-Nitroaniline	ND	5.0	0.52	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-03
 Client ID : YS-MW-BD- 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 43170-03
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 00:00
 Date Received : 07/26/23
 Date Analyzed : 08/02/23 09:27
 Date Extracted : 07/30/23
 Dilution Factor : 1
 Analyst : SLR
 Instrument ID : SV109
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
99-09-2	3-Nitroaniline	ND	5.0	0.57	U
100-01-6	4-Nitroaniline	ND	5.0	0.58	U
132-64-9	Dibenzofuran	ND	2.0	0.82	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.62	U
98-86-2	Acetophenone	ND	5.0	0.98	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.49	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.41	U
95-57-8	2-Chlorophenol	ND	2.0	0.40	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.53	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	U
88-75-5	2-Nitrophenol	ND	10	0.46	U
100-02-7	4-Nitrophenol	ND	10	1.1	U
51-28-5	2,4-Dinitrophenol	ND	20	3.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.4	U
108-95-2	Phenol	ND	5.0	1.3	U
95-48-7	2-Methylphenol	ND	5.0	1.1	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.55	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.38	U
86-74-8	Carbazole	ND	2.0	0.76	U
1912-24-9	Atrazine	ND	10	1.7	U
100-52-7	Benzaldehyde	ND	5.0	0.90	U
105-60-2	Caprolactam	ND	10	1.3	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C. Project Name : 42 YORK STREET Lab ID : L2343170-03 Client ID : YS-MW-BD- 072623 Sample Location : ROCHESTER, NY Sample Matrix : WATER Analytical Method : 1,8270E Lab File ID : 43170-03 Sample Amount : 1000 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2343170 Project Number : 2230119 Date Collected : 07/26/23 00:00 Date Received : 07/26/23 Date Analyzed : 08/02/23 09:27 Date Extracted : 07/30/23 Dilution Factor : 1 Analyst : SLR Instrument ID : SV109 GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
--	---

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.47	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : WG1809554-1
 Client ID : WG1809554-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 809554-1
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 08/02/23 01:43
 Date Extracted : 07/30/23
 Dilution Factor : 1
 Analyst : MG
 Instrument ID : JULIET
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.88	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.85	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.38	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.37	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.80	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.63	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	1.8	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	1.5	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.61	U
78-59-1	Isophorone	ND	5.0	0.66	U
98-95-3	Nitrobenzene	ND	2.0	0.66	U
86-30-6	NDPA/DPA	ND	2.0	0.65	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.77	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.58	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.4	U
84-66-2	Diethyl phthalate	ND	5.0	4.3	U
131-11-3	Dimethyl phthalate	ND	5.0	4.4	U
92-52-4	Biphenyl	ND	2.0	0.64	U
106-47-8	4-Chloroaniline	ND	5.0	0.65	U
88-74-4	2-Nitroaniline	ND	5.0	0.52	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : WG1809554-1
 Client ID : WG1809554-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 809554-1
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 08/02/23 01:43
 Date Extracted : 07/30/23
 Dilution Factor : 1
 Analyst : MG
 Instrument ID : JULIET
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
99-09-2	3-Nitroaniline	ND	5.0	0.57	U
100-01-6	4-Nitroaniline	ND	5.0	0.58	U
132-64-9	Dibenzofuran	ND	2.0	0.82	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.62	U
98-86-2	Acetophenone	ND	5.0	0.98	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.49	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.41	U
95-57-8	2-Chlorophenol	ND	2.0	0.40	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.53	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	U
88-75-5	2-Nitrophenol	ND	10	0.46	U
100-02-7	4-Nitrophenol	ND	10	1.1	U
51-28-5	2,4-Dinitrophenol	ND	20	3.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.4	U
108-95-2	Phenol	ND	5.0	1.3	U
95-48-7	2-Methylphenol	ND	5.0	1.1	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.55	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.38	U
86-74-8	Carbazole	ND	2.0	0.76	U
1912-24-9	Atrazine	ND	10	1.7	U
100-52-7	Benzaldehyde	ND	5.0	0.90	U
105-60-2	Caprolactam	ND	10	1.3	U



Results Summary
Form 1
Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C. Project Name : 42 YORK STREET Lab ID : WG1809554-1 Client ID : WG1809554-1BLANK Sample Location : Sample Matrix : WATER Analytical Method : 1,8270E Lab File ID : 809554-1 Sample Amount : 1000 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2343170 Project Number : 2230119 Date Collected : NA Date Received : NA Date Analyzed : 08/02/23 01:43 Date Extracted : 07/30/23 Dilution Factor : 1 Analyst : MG Instrument ID : JULIET GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
--	---

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.47	U



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 43170-01.D
 Acq On : 2 Aug 2023 8:40 am
 Operator : SV109:slr
 Sample : L2343170-01,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 08 10:42:34 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 08:59:30 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.104	152	228443	40.000	ug/ml	0.00
Standard Area 1 = 268648			Recovery =	85.03%		
27) IS2_1,4-Dichlorobenzen...	4.104	152	228443	40.000	ug/ml	0.00
Standard Area 3 = 292844			Recovery =	78.01%		
35) IS1_Naphthalene-d8	5.351	136	955982	40.000	ug/ml	0.00
Standard Area 1 = 1035506			Recovery =	92.32%		
55) IS2_Naphthalene-d8	5.351	136	955982	40.000	ug/ml	0.00
Standard Area 3 = 1138171			Recovery =	83.99%		
63) IS1_Acenaphthene-d10	7.051	164	557944	40.000	ug/ml	0.00
Standard Area 1 = 585086			Recovery =	95.36%		
83) IS2_Acenaphthene-d10	7.051	164	557944	40.000	ug/ml	0.00
Standard Area 3 = 646970			Recovery =	86.24%		
86) IS3_Acenaphthene-d10	7.051	164	557944	40.000	ug/ml	0.00
Standard Area 2 = 587706			Recovery =	94.94%		
88) IS1_Phenanthrene-d10	8.475	188	1191168	40.000	ug/ml	0.00
Standard Area 1 = 1270325			Recovery =	93.77%		
100) IS3_Phenanthrene-d10	8.475	188	1191168	40.000	ug/ml	0.00
Standard Area 2 = 1295083			Recovery =	91.98%		
104) IS1_Chrysene-d12	11.121	240	970549	40.000	ug/ml	0.00
Standard Area 1 = 1162834			Recovery =	83.46%		
113) IS1_Perylene-d12	13.027	264	1038289	40.000	ug/ml	0.01
Standard Area 1 = 1262838			Recovery =	82.22%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.804	112	157273	25.691	ug/ml	0.01
Spiked Amount 50.000		Range 30 - 130	Recovery =	51.38%		
7) Phenol-d6	3.834	99	136216	16.523	ug/ml	0.01
Spiked Amount 50.000		Range 30 - 130	Recovery =	33.05%		
19) Nitrobenzene-d5	4.663	82	103174	12.446	ug/ml	0.00
Spiked Amount 25.000		Range 40 - 140	Recovery =	49.78%		
46) 2-Fluorobiphenyl	6.428	172	346893	18.178	ug/ml	0.00
Spiked Amount 25.000		Range 40 - 140	Recovery =	72.71%		
79) 2,4,6-Tribromophenol	7.816	330	107589	36.146	ug/ml	0.00
Spiked Amount 50.000		Range 30 - 130	Recovery =	72.29%		
96) 4-Terphenyl-d14	10.057	244	484131	16.515	ug/ml	0.00
Spiked Amount 25.000		Range 40 - 140	Recovery =	66.06%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 43170-01.D
 Acq On : 2 Aug 2023 8:40 am
 Operator : SV109:slr
 Sample : L2343170-01,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 08 10:42:34 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 08:59:30 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue

Target Compounds							
6) 2-Chlorophenol	0.000		0				N.D.
8) Phenol	0.000		0				N.D.
9) Bis(2-chloroethyl)ether	0.000		0				N.D.
14) Bis(2-chloroisopropyl)...	0.000		0				N.D.
15) 2-Methylphenol	0.000		0				N.D.
17) n-Nitrosodi-n-propylamine	0.000		0				N.D. d
18) 3-Methylphenol/4-Methy...	0.000		0				N.D.
20) Nitrobenzene	0.000		0				N.D. d
21) Isophorone	0.000		0				N.D.
22) 2-Nitrophenol	0.000		0				N.D.
23) 2,4-Dimethylphenol	0.000		0				N.D. d
24) Bis(2-chloroethoxy)met...	0.000		0				N.D. d
25) 2,4-Dichlorophenol	0.000		0				N.D.
28) Benzaldehyde	0.000		0				N.D. d
29) Acetophenone	0.000		0				N.D. d
38) 4-Chloroaniline	0.000		0				N.D. d
40) p-Chloro-m-cresol	0.000		0				N.D. d
43) Hexachlorocyclopentadiene	0.000		0				N.D.
44) 2,4,6-Trichlorophenol	0.000		0				N.D.
45) 2,4,5-Trichlorophenol	0.000		0				N.D.
48) 2-Nitroaniline	0.000		0				N.D.
51) Dimethyl phthalate	0.000		0				N.D.
53) 2,6-Dinitrotoluene	0.000		0				N.D. d
60) Caprolactam	0.000		0				N.D. d
61) 1,2,4,5-Tetrachloroben...	0.000		0				N.D.
62) Biphenyl	0.000		0				N.D. d
64) 3-Nitroaniline	0.000		0				N.D.
66) 2,4-Dinitrophenol	0.000		0				N.D.
67) Dibenzofuran	0.000		0				N.D. d
68) 2,4-Dinitrotoluene	0.000		0				N.D. d
69) 4-Nitrophenol	0.000		0				N.D. d
71) 2,3,4,6-Tetrachlorophenol	0.000		0				N.D.
72) Diethyl phthalate	0.000		0				N.D. d
74) 4-Chlorophenyl phenyl ...	0.000		0				N.D.
75) 4-Nitroaniline	0.000		0				N.D.
76) 4,6-Dinitro-o-cresol	0.000		0				N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 43170-01.D
 Acq On : 2 Aug 2023 8:40 am
 Operator : SV109:slr
 Sample : L2343170-01,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 08 10:42:34 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 08:59:30 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) NDPA/DPA	0.000		0		N.D.	d
80) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	d
92) Di-n-butylphthalate	0.000		0		N.D.	d
97) Butyl benzyl phthalate	0.000		0		N.D.	d
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	d
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
109) Di-n-octylphthalate	0.000		0		N.D.	d

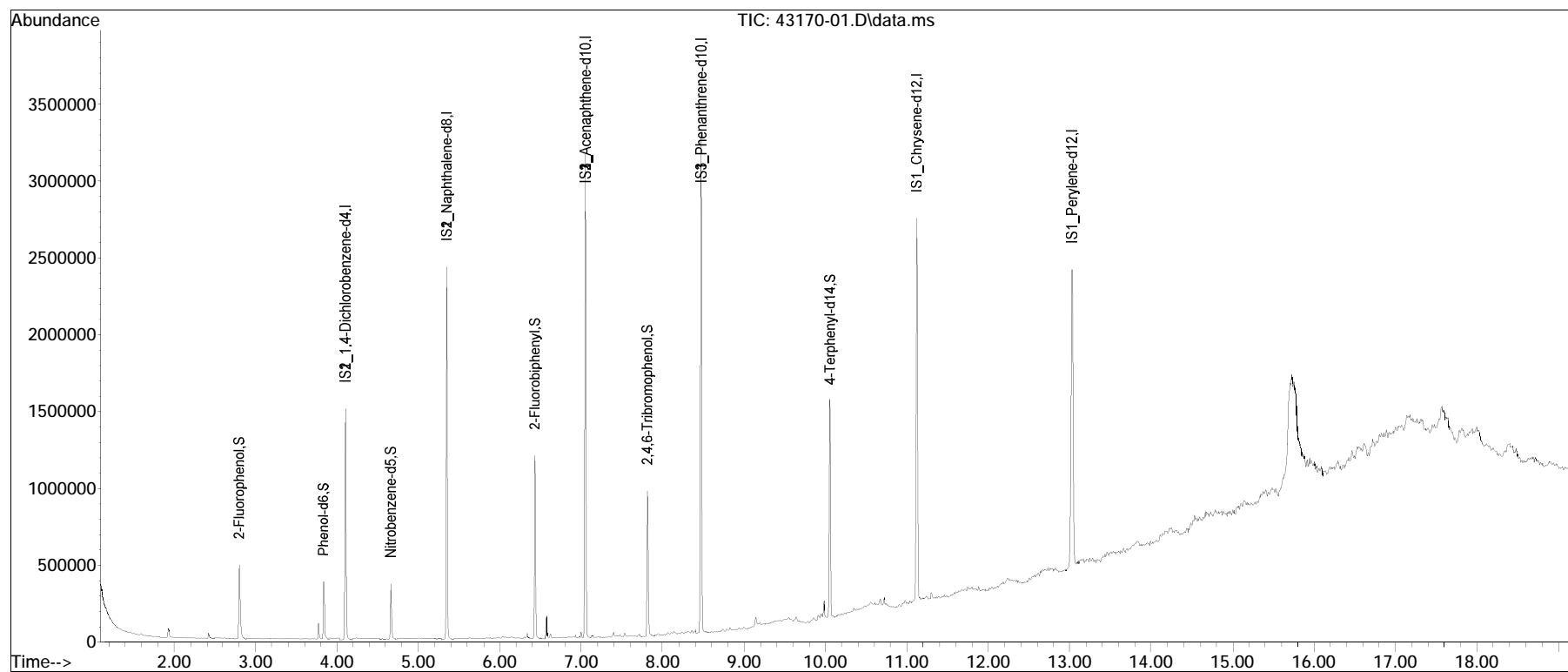
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
Data File : 43170-01.D
Acq On : 2 Aug 2023 8:40 am
Operator : SV109:slr
Sample : L2343170-01,32,,ASK
Misc : WG1810592,WG1809554,ical20078
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 08 10:42:34 2023
Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 02 08:59:30 2023
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA801n.D•



Manual Integration Report

Data Path	: I:\8270\SV109\230801n\	QMethod	: FS230531SV109.m
Data File	: 43170-01.D	Operator	: SV109:slr
Date Inj'd	: 8/2/2023 8:40 am	Instrument	: SV109
Sample	: L2343170-01,32,,ASK	Quant Date	: 8/2/2023 8:59 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 43170-03.D
 Acq On : 2 Aug 2023 9:27 am
 Operator : SV109:slr
 Sample : L2343170-03,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 08 10:45:33 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 09:46:06 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.104	152	263767	40.000	ug/ml	0.00
Standard Area 1 = 268648			Recovery =	98.18%		
27) IS2_1,4-Dichlorobenzen...	4.104	152	263767	40.000	ug/ml	0.00
Standard Area 3 = 292844			Recovery =	90.07%		
35) IS1_Naphthalene-d8	5.351	136	1073531	40.000	ug/ml	0.00
Standard Area 1 = 1035506			Recovery =	103.67%		
55) IS2_Naphthalene-d8	5.351	136	1073241	40.000	ug/ml	0.00
Standard Area 3 = 1138171			Recovery =	94.30%		
63) IS1_Acenaphthene-d10	7.051	164	602941	40.000	ug/ml	0.00
Standard Area 1 = 585086			Recovery =	103.05%		
83) IS2_Acenaphthene-d10	7.051	164	602941	40.000	ug/ml	0.00
Standard Area 3 = 646970			Recovery =	93.19%		
86) IS3_Acenaphthene-d10	7.051	164	603074	40.000	ug/ml	0.00
Standard Area 2 = 587706			Recovery =	102.61%		
88) IS1_Phenanthrene-d10	8.475	188	1297185	40.000	ug/ml	0.00
Standard Area 1 = 1270325			Recovery =	102.11%		
100) IS3_Phenanthrene-d10	8.475	188	1297185	40.000	ug/ml	0.00
Standard Area 2 = 1295083			Recovery =	100.16%		
104) IS1_Chrysene-d12	11.121	240	1118720	40.000	ug/ml	0.00
Standard Area 1 = 1162834			Recovery =	96.21%		
113) IS1_Perylene-d12	13.027	264	1209135	40.000	ug/ml	0.01
Standard Area 1 = 1262838			Recovery =	95.75%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.798	112	189519	26.813	ug/ml	0.00
Spiked Amount 50.000	Range	30 - 130	Recovery =	53.63%		
7) Phenol-d6	3.828	99	164065	17.236	ug/ml	0.00
Spiked Amount 50.000	Range	30 - 130	Recovery =	34.47%		
19) Nitrobenzene-d5	4.663	82	116297	12.150	ug/ml	0.00
Spiked Amount 25.000	Range	40 - 140	Recovery =	48.60%		
46) 2-Fluorobiphenyl	6.428	172	420377	19.616	ug/ml	0.00
Spiked Amount 25.000	Range	40 - 140	Recovery =	78.46%		
79) 2,4,6-Tribromophenol	7.816	330	125646	39.062	ug/ml	0.00
Spiked Amount 50.000	Range	30 - 130	Recovery =	78.12%		
96) 4-Terphenyl-d14	10.051	244	596002	18.669	ug/ml	0.00
Spiked Amount 25.000	Range	40 - 140	Recovery =	74.68%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 43170-03.D
 Acq On : 2 Aug 2023 9:27 am
 Operator : SV109:slr
 Sample : L2343170-03,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 08 10:45:33 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 09:46:06 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Target Compounds							
6) 2-Chlorophenol	0.000		0		N.D.		
8) Phenol	0.000		0		N.D.		
9) Bis(2-chloroethyl)ether	0.000		0		N.D.	d	
14) Bis(2-chloroisopropyl)...	0.000		0		N.D.		
15) 2-Methylphenol	0.000		0		N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0		N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0		N.D.		
20) Nitrobenzene	0.000		0		N.D.	d	
21) Isophorone	0.000		0		N.D.		
22) 2-Nitrophenol	0.000		0		N.D.		
23) 2,4-Dimethylphenol	0.000		0		N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0		N.D.		
25) 2,4-Dichlorophenol	0.000		0		N.D.		
28) Benzaldehyde	0.000		0		N.D.		
29) Acetophenone	0.000		0		N.D.	d	
38) 4-Chloroaniline	0.000		0		N.D.		
40) p-Chloro-m-cresol	0.000		0		N.D.	d	
43) Hexachlorocyclopentadiene	0.000		0		N.D.		
44) 2,4,6-Trichlorophenol	0.000		0		N.D.		
45) 2,4,5-Trichlorophenol	0.000		0		N.D.		
48) 2-Nitroaniline	0.000		0		N.D.		
51) Dimethyl phthalate	0.000		0		N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0		N.D.	d	
60) Caprolactam	0.000		0		N.D.	d	
61) 1,2,4,5-Tetrachloroben...	0.000		0		N.D.		
62) Biphenyl	0.000		0		N.D.	d	
64) 3-Nitroaniline	0.000		0		N.D.	d	
66) 2,4-Dinitrophenol	0.000		0		N.D.		
67) Dibenzofuran	0.000		0		N.D.		
68) 2,4-Dinitrotoluene	0.000		0		N.D.		
69) 4-Nitrophenol	0.000		0		N.D.	d	
71) 2,3,4,6-Tetrachlorophenol	0.000		0		N.D.		
72) Diethyl phthalate	7.533	149	9149M4	0.355	ug/ml		
74) 4-Chlorophenyl phenyl ...	0.000		0		N.D.		
75) 4-Nitroaniline	0.000		0		N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 43170-03.D
 Acq On : 2 Aug 2023 9:27 am
 Operator : SV109:slr
 Sample : L2343170-03,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 08 10:45:33 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 09:46:06 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) NDPA/DPA	0.000		0		N.D.	d
80) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	d
92) Di-n-butylphthalate	9.127	149	10339M4	0.229	ug/ml	
97) Butyl benzyl phthalate	0.000		0		N.D.	d
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	11.298	149	6225M4	0.213	ug/ml	
109) Di-n-octylphthalate	0.000		0		N.D.	d

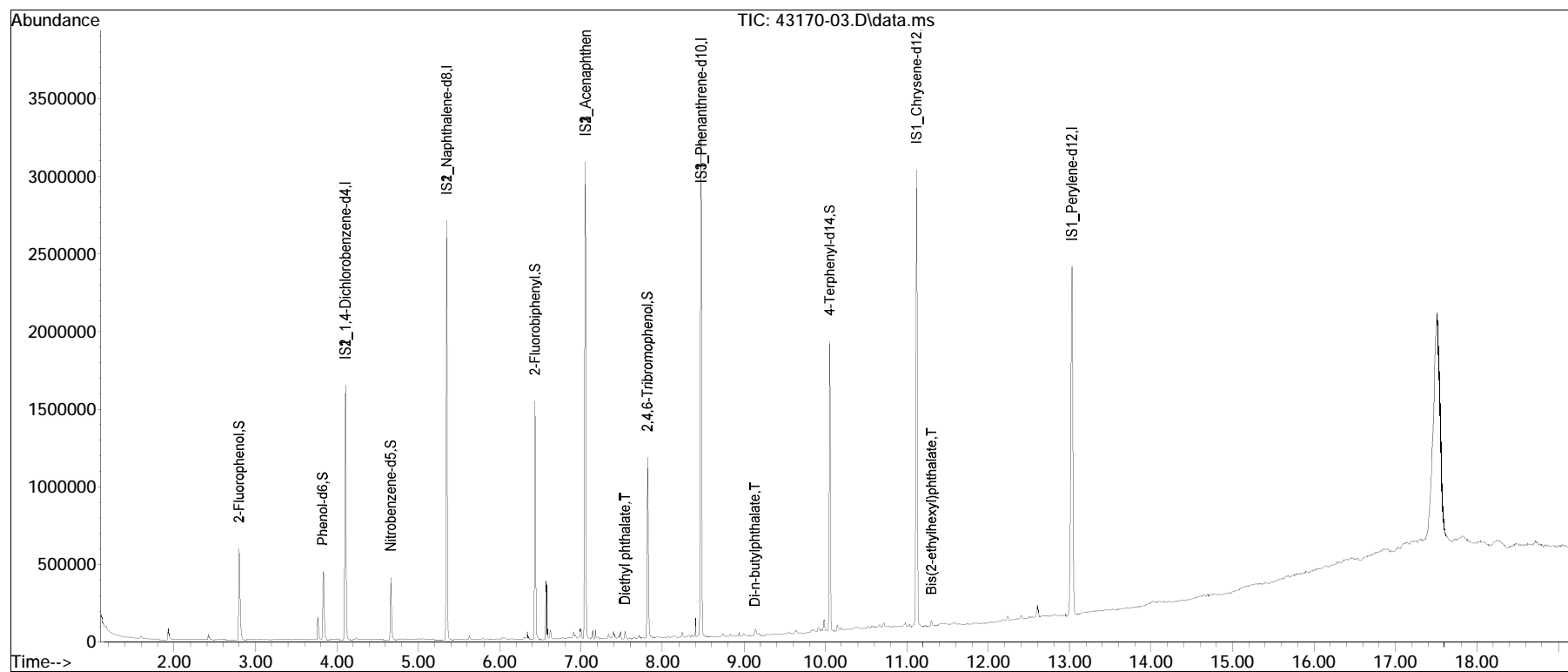
(#) = qualifier out of range (m) = manual integration (+) = signals summed

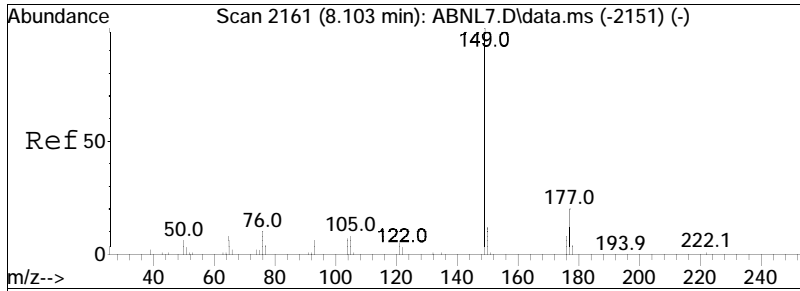
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
Data File : 43170-03.D
Acq On : 2 Aug 2023 9:27 am
Operator : SV109:slr
Sample : L2343170-03,32,,ASK
Misc : WG1810592,WG1809554,ical20078
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 08 10:45:33 2023
Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 02 09:46:06 2023
Response via : Initial Calibration

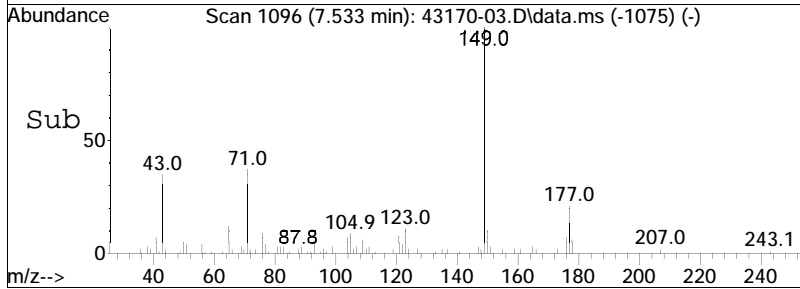
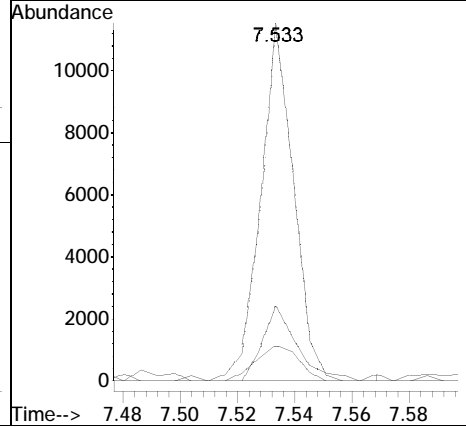
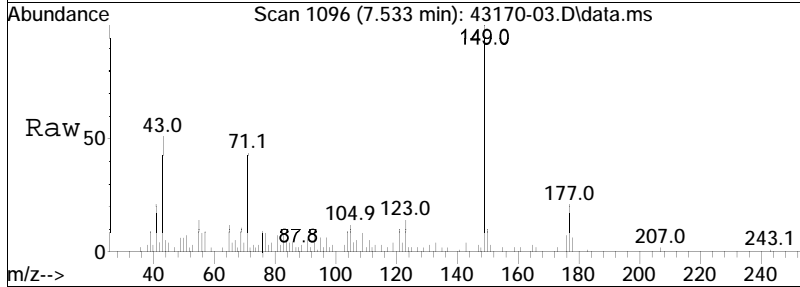
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA801n.D•

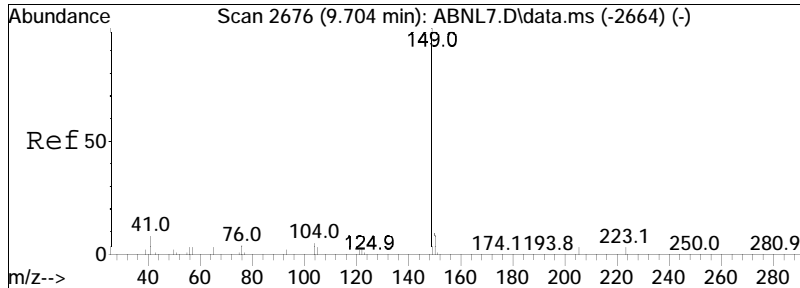




#72
 Diethyl phthalate
 Concen: 0.36 ug/ml M4
 RT: 7.533 min Scan# 1096
 Delta R.T. -0.003 min
 Lab File: 43170-03.D
 Acq: 2 Aug 2023 9:27 am

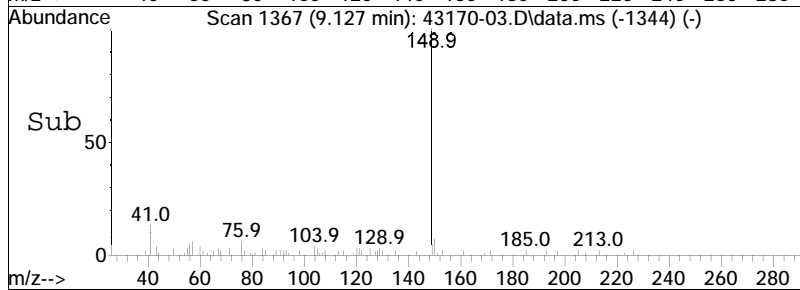
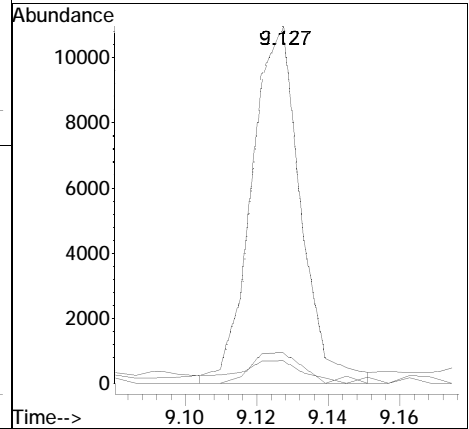
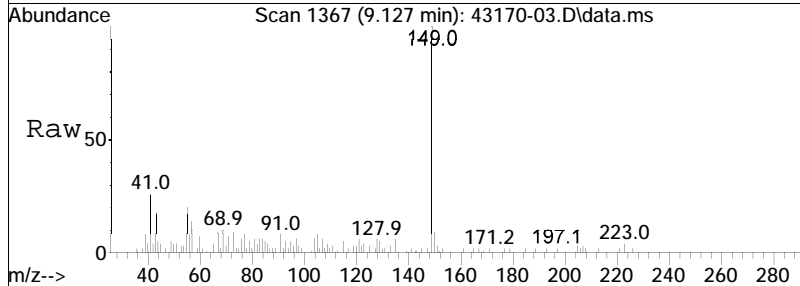
Tgt Ion	Ratio	Resp	Lower	Upper
149	100	9149		
177	22.0	15.6	23.4	
150	12.9	9.6	14.4	

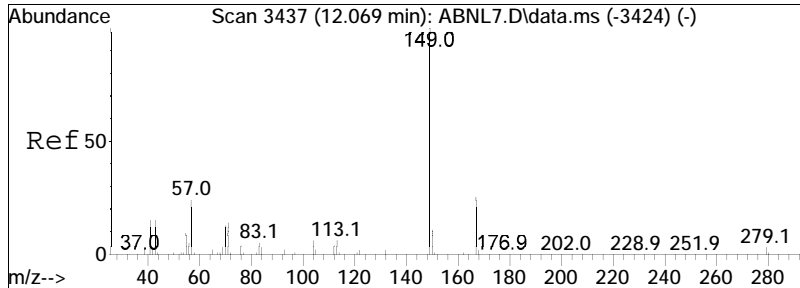




#92
 Di-n-butylphthalate
 Concen: 0.23 ug/ml M4
 RT: 9.127 min Scan# 1367
 Delta R.T. 0.009 min
 Lab File: 43170-03.D
 Acq: 2 Aug 2023 9:27 am

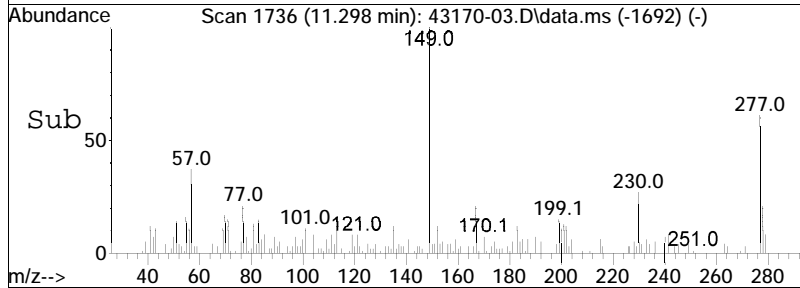
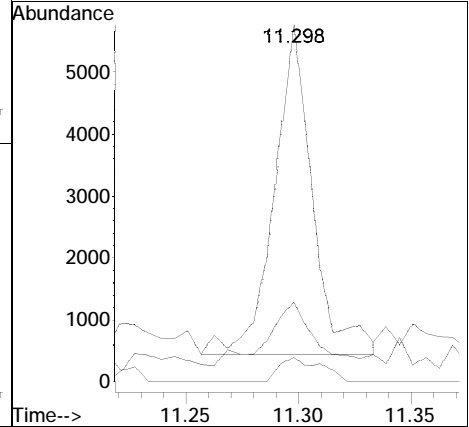
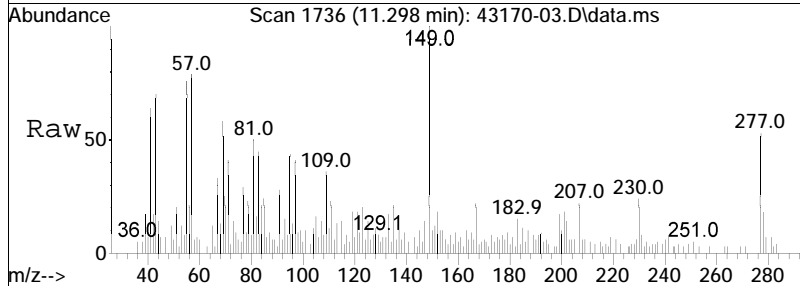
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.3	10.9
104	8.2	3.6	5.4#





#108
 Bis(2-ethylhexyl)phthalate
 Concen: 0.21 ug/ml M4
 RT: 11.298 min Scan# 1736
 Delta R.T. 0.009 min
 Lab File: 43170-03.D
 Acq: 2 Aug 2023 9:27 am

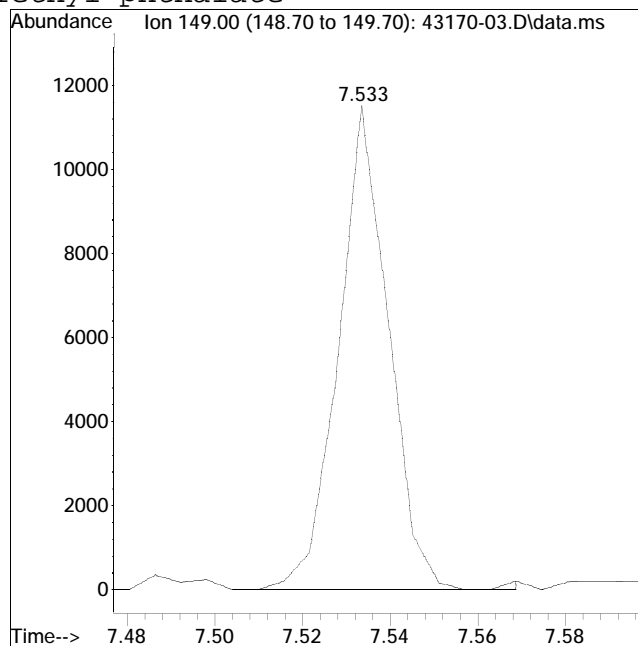
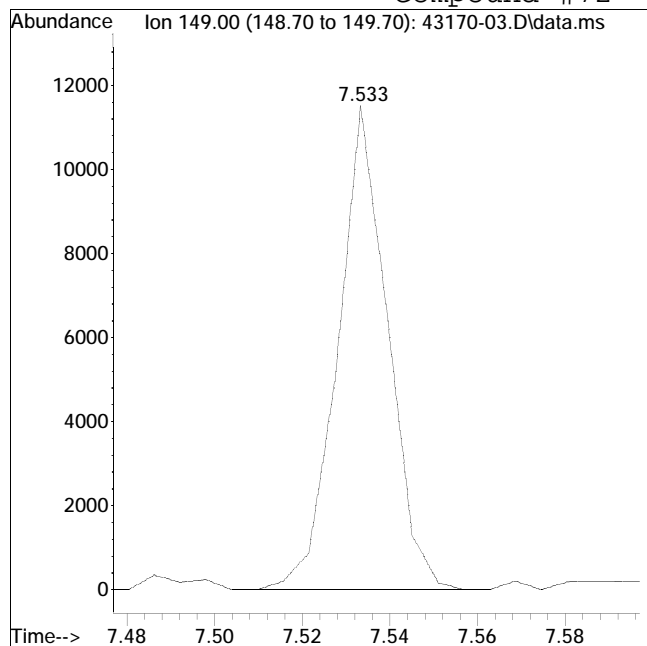
Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.5	19.0	28.6
279	8.0	2.0	3.0#



Manual Integration Report

Data Path : I:\8270\SV109\230801n\ QMethod : FS230531SV109.m
Data File : 43170-03.D Operator : SV109:slr
Date Inj'd : 8/2/2023 9:27 am Instrument : SV109
Sample : L2343170-03,32,,ASK Quant Date : 8/2/2023 9:46 am

Compound #72: Diethyl phthalate



Original Peak Response = 9078

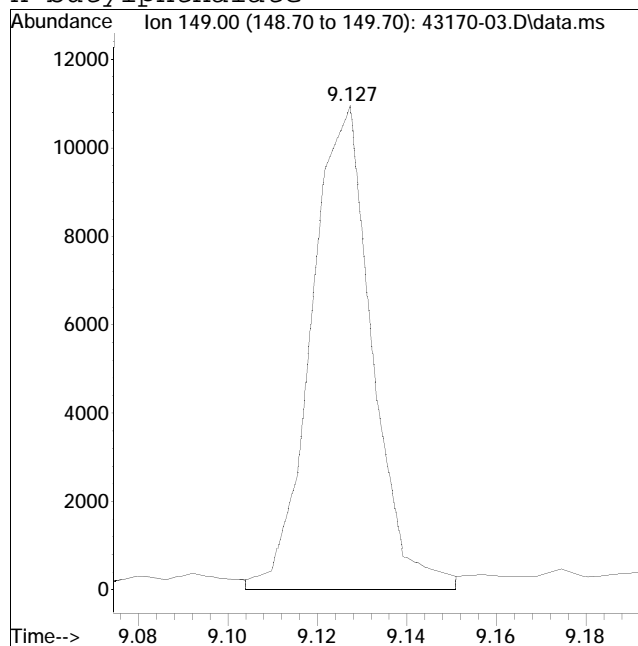
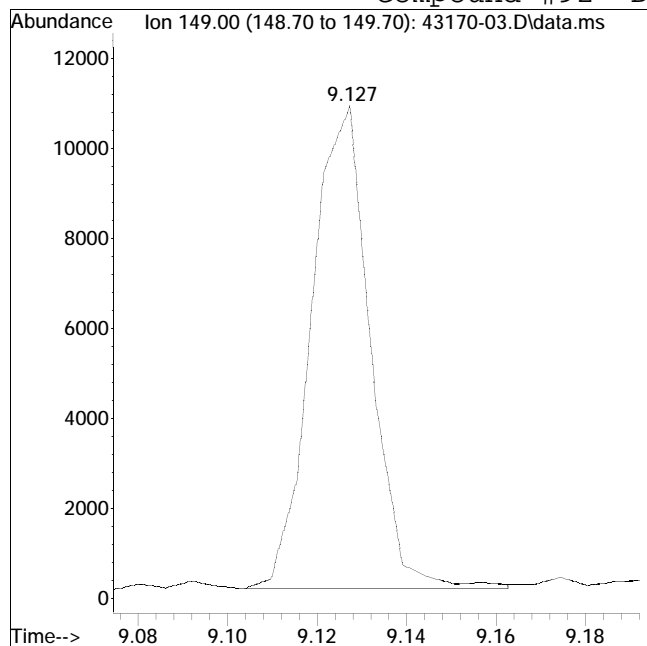
Manual Peak Response = 9149 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270\SV109\230801n\ QMethod : FS230531SV109.m
Data File : 43170-03.D Operator : SV109:slr
Date Inj'd : 8/2/2023 9:27 am Instrument : SV109
Sample : L2343170-03,32,,ASK Quant Date : 8/2/2023 9:46 am

Compound #92: Di-n-butylphthalate



Original Peak Response = 9785

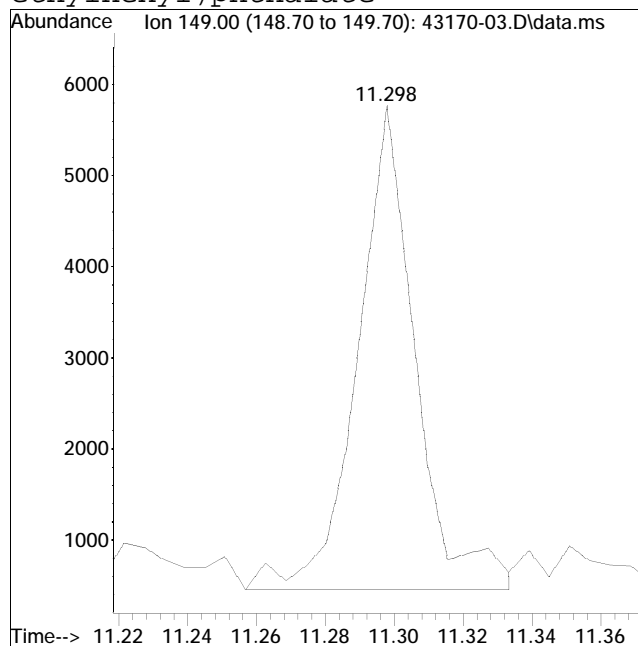
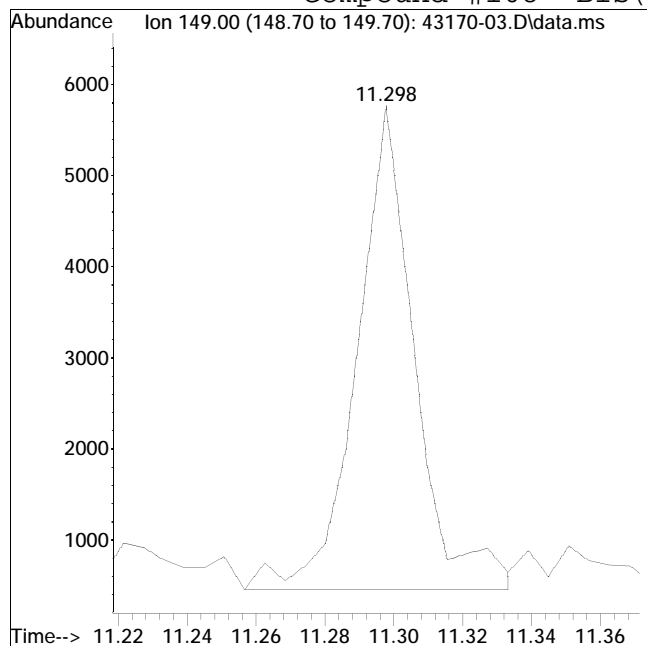
Manual Peak Response = 10339 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270\SV109\230801n\ QMethod : FS230531SV109.m
Data File : 43170-03.D Operator : SV109:slr
Date Inj'd : 8/2/2023 9:27 am Instrument : SV109
Sample : L2343170-03,32,,ASK Quant Date : 8/2/2023 9:46 am

Compound #108: Bis(2-ethylhexyl)phthalate



Original Peak Response = 6225

Manual Peak Response = 6225 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 43170-02.D
 Acq On : 2 Aug 2023 10:37 am
 Operator : SV109:slr
 Sample : L2343170-02,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 08 10:43:33 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 10:57:13 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.104	152	272343	40.000	ug/ml	0.00
Standard Area 1 = 268648			Recovery =	101.38%		
27) IS2_1,4-Dichlorobenzen...	4.104	152	272343	40.000	ug/ml	0.00
Standard Area 3 = 292844			Recovery =	93.00%		
35) IS1_Naphthalene-d8	5.351	136	1135420	40.000	ug/ml	0.00
Standard Area 1 = 1035506			Recovery =	109.65%		
55) IS2_Naphthalene-d8	5.351	136	1134761	40.000	ug/ml	0.00
Standard Area 3 = 1138171			Recovery =	99.70%		
63) IS1_Acenaphthene-d10	7.045	164	653937	40.000	ug/ml	0.00
Standard Area 1 = 585086			Recovery =	111.77%		
83) IS2_Acenaphthene-d10	7.045	164	653937	40.000	ug/ml	0.00
Standard Area 3 = 646970			Recovery =	101.08%		
86) IS3_Acenaphthene-d10	7.045	164	653937	40.000	ug/ml	0.00
Standard Area 2 = 587706			Recovery =	111.27%		
88) IS1_Phenanthrene-d10	8.469	188	1402532	40.000	ug/ml	0.00
Standard Area 1 = 1270325			Recovery =	110.41%		
100) IS3_Phenanthrene-d10	8.469	188	1402532	40.000	ug/ml	0.00
Standard Area 2 = 1295083			Recovery =	108.30%		
104) IS1_Chrysene-d12	11.122	240	1224234	40.000	ug/ml	0.00
Standard Area 1 = 1162834			Recovery =	105.28%		
113) IS1_Perylene-d12	13.021	264	1328265	40.000	ug/ml	0.00
Standard Area 1 = 1262838			Recovery =	105.18%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.799	112	198841	27.246	ug/ml	0.00
Spiked Amount 50.000		Range 30 - 130	Recovery =	54.49%		
7) Phenol-d6	3.834	99	172152	17.516	ug/ml	0.01
Spiked Amount 50.000		Range 30 - 130	Recovery =	35.03%		
19) Nitrobenzene-d5	4.663	82	124853	12.633	ug/ml	0.00
Spiked Amount 25.000		Range 40 - 140	Recovery =	50.53%		
46) 2-Fluorobiphenyl	6.428	172	444299	19.603	ug/ml	0.00
Spiked Amount 25.000		Range 40 - 140	Recovery =	78.41%		
79) 2,4,6-Tribromophenol	7.816	330	142493	40.845	ug/ml	0.00
Spiked Amount 50.000		Range 30 - 130	Recovery =	81.69%		
96) 4-Terphenyl-d14	10.051	244	628959	18.222	ug/ml	0.00
Spiked Amount 25.000		Range 40 - 140	Recovery =	72.89%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 43170-02.D
 Acq On : 2 Aug 2023 10:37 am
 Operator : SV109:slr
 Sample : L2343170-02,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 08 10:43:33 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 10:57:13 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue

Target Compounds							
6) 2-Chlorophenol	0.000		0				
8) Phenol	0.000		0				
9) Bis(2-chloroethyl)ether	0.000		0				
14) Bis(2-chloroisopropyl)...	0.000		0				
15) 2-Methylphenol	0.000		0				
17) n-Nitrosodi-n-propylamine	0.000		0				
18) 3-Methylphenol/4-Methy...	0.000		0				
20) Nitrobenzene	0.000		0				d
21) Isophorone	0.000		0				d
22) 2-Nitrophenol	0.000		0				
23) 2,4-Dimethylphenol	0.000		0				
24) Bis(2-chloroethoxy)met...	0.000		0				
25) 2,4-Dichlorophenol	0.000		0				
28) Benzaldehyde	0.000		0				d
29) Acetophenone	0.000		0				
38) 4-Chloroaniline	0.000		0				
40) p-Chloro-m-cresol	0.000		0				
43) Hexachlorocyclopentadiene	0.000		0				
44) 2,4,6-Trichlorophenol	0.000		0				
45) 2,4,5-Trichlorophenol	0.000		0				
48) 2-Nitroaniline	0.000		0				
51) Dimethyl phthalate	0.000		0				
53) 2,6-Dinitrotoluene	0.000		0				
60) Caprolactam	0.000		0				d
61) 1,2,4,5-Tetrachloroben...	0.000		0				
62) Biphenyl	0.000		0				d
64) 3-Nitroaniline	0.000		0				
66) 2,4-Dinitrophenol	0.000		0				
67) Dibenzofuran	0.000		0				
68) 2,4-Dinitrotoluene	0.000		0				
69) 4-Nitrophenol	0.000		0				d
71) 2,3,4,6-Tetrachlorophenol	0.000		0				
72) Diethyl phthalate	0.000		0				d
74) 4-Chlorophenyl phenyl ...	0.000		0				
75) 4-Nitroaniline	0.000		0				
76) 4,6-Dinitro-o-cresol	0.000		0				

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 43170-02.D
 Acq On : 2 Aug 2023 10:37 am
 Operator : SV109:slr
 Sample : L2343170-02,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 08 10:43:33 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 10:57:13 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) NDPA/DPA	0.000		0		N.D.	d
80) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	d
92) Di-n-butylphthalate	0.000		0		N.D.	d
97) Butyl benzyl phthalate	0.000		0		N.D.	d
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
109) Di-n-octylphthalate	0.000		0		N.D.	d

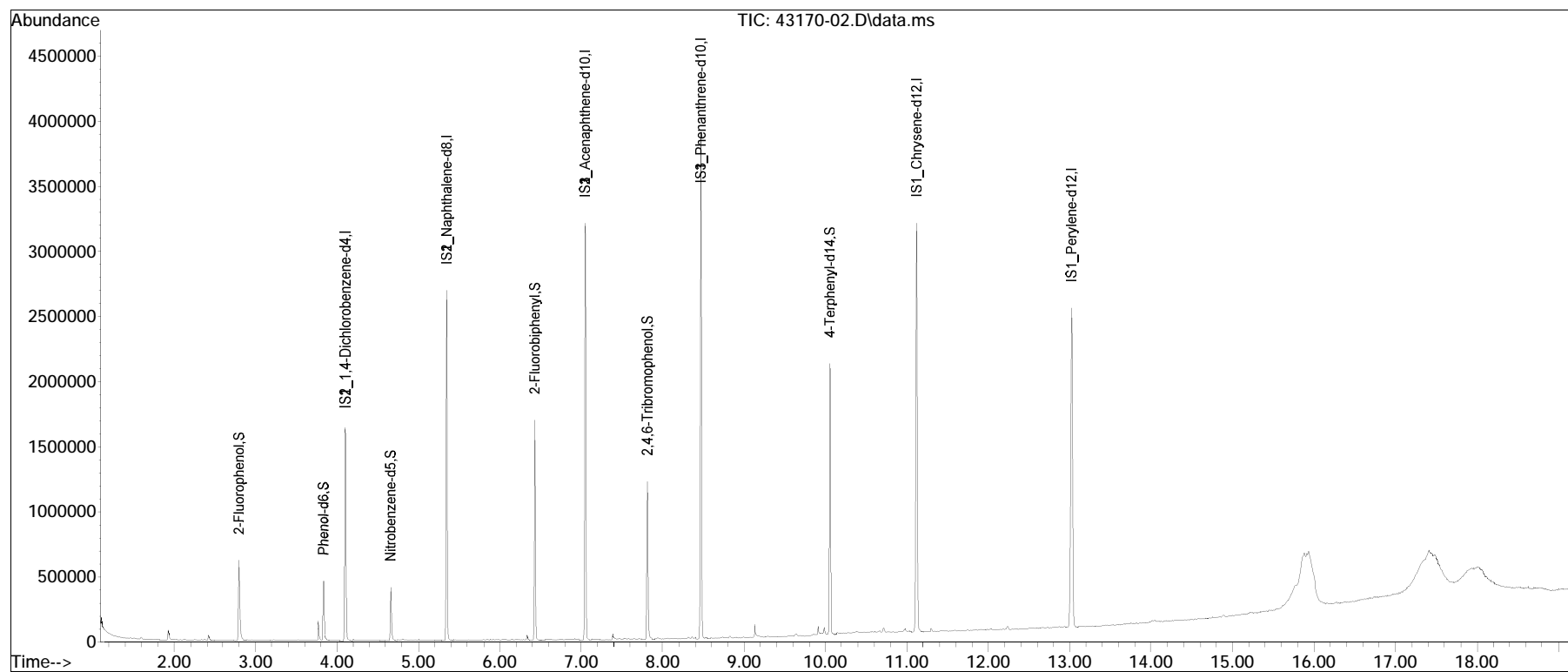
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
Data File : 43170-02.D
Acq On : 2 Aug 2023 10:37 am
Operator : SV109:slr
Sample : L2343170-02,32,,ASK
Misc : WG1810592,WG1809554,ical20078
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 08 10:43:33 2023
Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 02 10:57:13 2023
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA801n.D•



Manual Integration Report

Data Path	: I:\8270\SV109\230801n\	QMethod	: FS230531SV109.m
Data File	: 43170-02.D	Operator	: SV109:slr
Date Inj'd	: 8/2/2023 10:37 am	Instrument	: SV109
Sample	: L2343170-02,32,,ASK	Quant Date	: 8/2/2023 10:57 am

There are no manual integrations or false positives in this file.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : SV109
Calibration dates : 05/31/23 20:09 06/06/23 19:30

Lab Number : L2343170
Project Number : 2230119
Ical Ref : ICAL20078

Calibration Files

1.0 =ADPL1a.D 2.0 =ADPL2a.D 3.0 =ADPL3a.D 5.0 =ADPL4a.D 10 =ADPL5a.D 20 =ADPL6a.D 50 =ADPL7
 100 =ADPL8a.D 150 =ADPL9a.D 200 =ADPL10a.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
1) I IS1_1,4-Dichlorobenzene-d4	-----ISTD-----											
2) t N-Nitrosodimethylamine	0.657	0.688	0.797	0.714	0.725	0.703	0.788	0.739	0.758	0.806	0.738	6.69
3) t Pyridine	0.998	1.049	1.404	1.130	1.136	1.160	1.213	1.233	1.240	1.302	1.187	10.03
4) S 2-Fluorophenol	0.794	0.888	1.158	0.998	1.047	1.069	1.173	1.148	1.185	1.259	1.072	13.51
5) T Aniline	1.734	1.761	2.206	1.837	1.861	1.800	1.998	1.957	1.954	2.065	1.917	7.70
6) t 2-Chlorophenol	1.218	1.229	1.523	1.266	1.290	1.286	1.385	1.323	1.331	1.403	1.325	6.93
7) S Phenol-d6	1.189	1.291	1.601	1.360	1.390	1.419	1.549	1.521	1.511	1.603	1.443	9.53
8) T Phenol	1.461	1.376	1.801	1.481	1.511	1.461	1.614	1.586	1.568	1.668	1.553	7.88
9) T bis(2-Chloroethyl)ether	1.128	1.142	1.433	1.184	1.207	1.205	1.329	1.253	1.251	1.314	1.245	7.48
10) T 1,3-Dichlorobenzene	1.406	1.400	1.669	1.419	1.417	1.382	1.470	1.410	1.418	1.503	1.450	5.86
11) T 1,4-Dichlorobenzene	1.510	1.438	1.704	1.459	1.422	1.420	1.499	1.426	1.437	1.525	1.484	5.82
12) T 1,2-Dichlorobenzene	1.381	1.396	1.642	1.387	1.384	1.373	1.460	1.391	1.401	1.488	1.430	5.82
13) t Benzyl alcohol	0.857	0.960	1.240	1.017	1.081	1.100	1.217	1.199	1.165	1.237	1.107	11.70
14) T bis(2-chloroisopropyl)ether	1.612	1.638	1.895	1.615	1.628	1.643	1.738	1.577	1.566	1.537	1.645	6.28
15) T 2-Methylphenol	1.028	1.107	1.285	1.061	1.108	1.113	1.207	1.164	1.156	1.216	1.145	6.73
16) T Hexachloroethane	0.580	0.631	0.739	0.618	0.612	0.607	0.645	0.608	0.620	0.637	0.630	6.72
17) T n-Nitrosodi-n-propylamine	0.910	0.938	1.170	0.962	0.988	0.993	1.071	1.040	1.016	1.048	1.014	7.34
18) T 3-Methylphenol/4-Methylphenol	0.929	1.116	1.380	1.171	1.169	1.182	1.277	1.249	1.227	1.306	1.201	10.22
19) S Nitrobenzene-d5	1.301	1.335	1.637	1.367	1.388	1.429	1.552	1.498	1.470	1.539	1.452	7.36
20) T Nitrobenzene	1.216	1.304	1.636	1.331	1.399	1.425	1.545	1.471	1.448	1.509	1.428	8.62
21) T Isophorone	2.522	2.652	3.162	2.655	2.639	2.642	2.871	2.824	2.714	2.897	2.758	6.69
22) T 2-Nitrophenol			0.748	0.632	0.649	0.673	0.750	0.735	0.730	0.777	0.712	7.46
23) T 2,4-Dimethylphenol	1.173	1.203	1.505	1.214	1.274	1.276	1.407	1.386	1.366	1.470	1.327	8.73
24) T bis(2-Chloroethoxy)methane	1.502	1.638	1.971	1.612	1.631	1.639	1.741	1.685	1.638	1.747	1.680	7.33
25) T 2,4-Dichlorophenol	0.930	1.035	1.324	1.113	1.134	1.128	1.231	1.205	1.173	1.285	1.156	10.06
26) T 1,2,4-Trichlorobenzene	1.272	1.245	1.523	1.254	1.265	1.241	1.338	1.290	1.276	1.385	1.309	6.68
27) I IS2_1,4-Dichlorobenzene-d4	-----ISTD-----											
28) T Benzaldehyde			0.811	0.836	0.895	0.907	0.867	0.821	0.811	0.638	0.823	10.15
29) T Acetophenone		1.603	1.580	1.700	1.753	1.860	1.866	1.929	1.965	1.885	1.793	7.84
30) T m-Toluidine		1.459	1.425	1.475	1.567	1.643	1.601	1.559	1.569	1.380	1.520	5.80
31) T 2-Chloroaniline		1.570	1.527	1.563	1.599	1.689	1.663	1.701	1.714	1.663	1.632	4.18
32) I IS3_1,4-Dichlorobenzene-d4	-----ISTD-----											
33) T 1,4-Dioxane	0.444	0.441	0.401	0.413	0.409	0.419	0.436	0.418	0.388	0.366	0.414	5.87
34) T n-Decane	1.069	1.170	1.185	1.176	1.232	1.228	1.226	1.208	1.165	1.143	1.180	4.19
35) I IS1_Naphthalene-d8	-----ISTD-----											
36) T Naphthalene	0.997	0.965	1.161	0.964	0.948	0.962	1.016	0.976	0.977	1.018	0.998	6.17



Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : SV109
Calibration dates : 05/31/23 20:09 06/06/23 19:30

Lab Number : L2343170
Project Number : 2230119
Ical Ref : ICAL20078

Calibration Files

1.0 =ADPL1a.D 2.0 =ADPL2a.D 3.0 =ADPL3a.D 5.0 =ADPL4a.D 10 =ADPL5a.D 20 =ADPL6a.D 50 =ADPL7
 100 =ADPL8a.D 150 =ADPL9a.D 200 =ADPL10a.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
37) T Benzoic Acid				0.160	0.195	0.220	0.263	0.279	0.265	0.293	*L	0.9975
38) T 4-Chloroaniline	0.117	0.117	0.150	0.124	0.122	0.128	0.136	0.131	0.129	0.136	0.129	7.78
39) T Hexachlorobutadiene	0.199	0.208	0.240	0.197	0.196	0.199	0.212	0.200	0.206	0.219	0.207	6.55
40) T p-Chloro-m-cresol	0.264	0.280	0.358	0.297	0.296	0.306	0.329	0.324	0.320	0.341	0.311	9.08
41) T 2-Methylnaphthalene	0.631	0.618	0.737	0.636	0.633	0.642	0.689	0.676	0.667	0.705	0.663	5.77
42) T 1-Methylnaphthalene	0.251	0.244	0.284	0.252	0.239	0.243	0.260	0.252	0.246	0.262	0.254	5.10
43) T Hexachlorocyclopentadiene				0.103	0.130	0.181	0.202	0.210	0.229		*L	0.9965
44) T 2,4,6-Trichlorophenol	0.193	0.183	0.244	0.195	0.204	0.210	0.229	0.234	0.228	0.252	0.217	10.75
45) T 2,4,5-Trichlorophenol	0.219	0.230	0.255	0.215	0.230	0.230	0.255	0.253	0.248	0.270	0.241	7.55
46) S 2-Fluorobiphenyl	0.767	0.765	0.944	0.782	0.773	0.764	0.805	0.785	0.771	0.829	0.798	6.89
47) T 2-Chloronaphthalene	0.659	0.651	0.817	0.669	0.659	0.660	0.699	0.674	0.661	0.709	0.686	7.25
48) T 2-Nitroaniline				0.207	0.220	0.224	0.243	0.238	0.231	0.250	0.231	6.40
49) T 1,4-Dinitrobenzene			0.102	0.087	0.094	0.099	0.111	0.114	0.110	0.119	0.104	10.46
50) T 1,3-Dinitrobenzene		0.089	0.118	0.107	0.111	0.112	0.124	0.127	0.123	0.134	0.116	11.45
51) T Dimethyl phthalate	0.806	0.839	1.048	0.843	0.828	0.822	0.867	0.838	0.815	0.885	0.859	8.20
52) T Acenaphthylene	1.048	1.075	1.321	1.076	1.061	1.043	1.115	1.076	1.053	1.105	1.097	7.47
53) T 2,6-Dinitrotoluene		0.160	0.212	0.173	0.176	0.177	0.186	0.188	0.182	0.200	0.184	8.36
54) T 1,2-Dinitrobenzene		0.074	0.089	0.076	0.075	0.076	0.081	0.080	0.077	0.081	0.079	5.85
55) I IS2_Naphthalene-d8	-----ISTD-----											
56) T a-Terpineol		0.257	0.256	0.255	0.267	0.276	0.266	0.262	0.261	0.253	0.261	2.73
57) T 3-Chloroaniline		0.117	0.129	0.137	0.140	0.139	0.137	0.132	0.128	0.119	0.131	6.44
58) T 2,6-Dichlorophenol		0.242	0.253	0.252	0.278	0.280	0.276	0.277	0.277	0.283	0.269	5.68
59) T 1-chloro-2-nitrobenzene		0.131	0.131	0.130	0.144	0.149	0.147	0.147	0.151	0.150	0.142	6.19
60) T Caprolactam				0.146	0.149	0.152	0.150	0.149	0.148	0.149	0.149	1.19
61) T 1,2,4,5-Tetrachlorobenzene		0.333	0.332	0.342	0.347	0.354	0.346	0.347	0.347	0.357	0.345	2.42
62) T Biphenyl	0.812	0.801	0.806	0.812	0.821	0.852	0.825	0.825	0.821	0.818	0.819	1.70
63) I IS1_Acenaphthene-d10	-----ISTD-----											
64) T 3-Nitroaniline				0.353	0.363	0.367	0.398	0.388	0.380	0.394	0.378	4.54
65) T Acenaphthene	1.141	1.129	1.406	1.160	1.136	1.136	1.207	1.166	1.170	1.234	1.188	7.03
66) T 2,4-Dinitrophenol				0.084	0.127	0.144	0.179	0.193	0.190	0.206	*L	0.9948
67) T Dibenzofuran	1.787	1.787	2.224	1.790	1.757	1.770	1.870	1.802	1.801	1.887	1.847	7.50
68) T 2,4-Dinitrotoluene		0.350	0.482	0.381	0.418	0.422	0.461	0.444	0.440	0.473	0.430	9.98
69) T 4-Nitrophenol			0.261	0.207	0.240	0.273	0.307	0.315	0.312	0.323	0.280	14.87
70) T 2,3,5,6-Tetrachlorophenol				0.283	0.324	0.334	0.378	0.378	0.377	0.408	0.354	12.03
71) T 2,3,4,6-Tetrachlorophenol		0.307	0.424	0.353	0.355	0.357	0.388	0.391	0.387	0.412	0.375	9.48
72) T Diethyl phthalate	1.615	1.682	2.037	1.655	1.661	1.651	1.750	1.672	1.651	1.721	1.710	7.10



Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : SV109
Calibration dates : 05/31/23 20:09 06/06/23 19:30

Lab Number : L2343170
Project Number : 2230119
Ical Ref : ICAL20078

Calibration Files

1.0 =ADPL1a.D 2.0 =ADPL2a.D 3.0 =ADPL3a.D 5.0 =ADPL4a.D 10 =ADPL5a.D 20 =ADPL6a.D 50 =ADPL7
 100 =ADPL8a.D 150 =ADPL9a.D 200 =ADPL10a.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
73) T Fluorene	1.415	1.426	1.789	1.444	1.431	1.435	1.530	1.472	1.469	1.532	1.494	7.45
74) T 4-Chlorophenyl-phenylether	0.700	0.694	0.867	0.705	0.703	0.689	0.743	0.695	0.696	0.732	0.722	7.42
75) T 4-Nitroaniline			0.431	0.340	0.358	0.361	0.375	0.364	0.355	0.375	0.370	7.32
76) T 4,6-Dinitro-o-cresol				0.141	0.179	0.193	0.225	0.233	0.228	0.244	*L	0.9988
77) T NDPA/DPA	1.212	1.244	1.524	1.249	1.237	1.232	1.317	1.264	1.253	1.307	1.284	7.03
78) T Azobenzene	1.470	1.528	1.835	1.499	1.476	1.484	1.573	1.459	1.467	1.634	1.542	7.56
79) S 2,4,6-Tribromophenol	0.152	0.189	0.235	0.190	0.202	0.213	0.232	0.235	0.232	0.254	0.213	14.17
80) T 4-Bromophenyl-phenylether	0.416	0.426	0.509	0.420	0.420	0.428	0.461	0.452	0.454	0.488	0.447	7.08
81) T Hexachlorobenzene	0.475	0.511	0.618	0.493	0.481	0.487	0.522	0.517	0.512	0.548	0.516	8.15
82) T Pentachlorophenol			0.187	0.147	0.187	0.206	0.251	0.273	0.275	0.298	*Q	0.9989
83) I IS2_Acenaphthene-d10	-----ISTD-----											
84) T Dichloran			0.145	0.153	0.172	0.185	0.196	0.208	0.212	0.213	0.186	14.35
85) T Pentachloronitrobenzene			0.177	0.186	0.200	0.208	0.213	0.225	0.217	0.221	0.206	8.37
86) I IS3_Acenaphthene-d10	-----ISTD-----											
87) T Atrazine		0.370	0.393	0.419	0.425	0.430	0.433	0.443	0.434	0.439	0.421	5.73
88) I IS1_Phenanthrene-d10	-----ISTD-----											
89) T Phenanthrene	1.050	1.022	1.238	1.036	0.997	0.993	1.084	1.035	1.056	1.105	1.062	6.70
90) T Anthracene	1.014	0.996	1.234	1.022	1.007	1.002	1.097	1.055	1.066	1.116	1.061	6.93
91) T Carbazole	1.002	0.990	1.196	0.999	0.976	0.977	1.050	1.007	1.006	1.062	1.027	6.41
92) T Di-n-butylphthalate	1.289	1.309	1.599	1.347	1.338	1.350	1.455	1.390	1.391	1.440	1.391	6.49
93) T Fluoranthene	1.219	1.207	1.459	1.218	1.188	1.182	1.297	1.262	1.252	1.322	1.261	6.61
94) T Benzidine		0.772	0.910	0.786	0.748	0.720	0.753	0.749	0.774	0.843	0.784	7.44
95) T Pyrene	1.274	1.287	1.558	1.272	1.250	1.228	1.333	1.262	1.286	1.326	1.308	7.14
96) S 4-Terphenyl-d14	0.968	0.945	1.137	0.952	0.916	0.924	1.006	0.975	0.985	1.037	0.984	6.59
97) T Butyl benzyl phthalate			0.598	0.607	0.609	0.667	0.647	0.644	0.672	0.635	4.76	
98) I IS2_Phenanthrene-d10	-----ISTD-----											
99) T Diphenamid		0.505	0.475	0.496	0.517	0.528	0.526	0.519	0.528	0.519	0.512	3.43
100) I IS3_Phenanthrene-d10	-----ISTD-----											
101) T n-Octadecane			0.422	0.426	0.436	0.425	0.428	0.403	0.390	0.419	3.89	
102) T Parathion			0.096	0.103	0.110	0.120	0.131	0.134	0.134	0.118	13.30	
103) T 3,3'-Dimethylbenzidine			0.587	0.647	0.708	0.770	0.801	0.841	0.831	0.812	0.750	12.39
104) I IS1_Chrysene-d12	-----ISTD-----											
105) T Benzo[a]anthracene	1.467	1.394	1.676	1.341	1.316	1.344	1.378	1.310	1.308	1.406	1.394	7.97
106) T 3,3'-Dichlorobenzidine		0.486	0.640	0.510	0.511	0.518	0.542	0.518	0.516	0.553	0.533	8.34
107) T Chrysene	1.370	1.379	1.590	1.283	1.211	1.221	1.273	1.157	1.168	1.234	1.289	10.06
108) T bis(2-Ethylhexyl)phthalate		0.987	1.238	0.994	1.026	1.041	1.081	0.998	0.986	1.041	1.044	7.62



Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : SV109
Calibration dates : 05/31/23 20:09 06/06/23 19:30

Lab Number : L2343170
Project Number : 2230119
Ical Ref : ICAL20078

Calibration Files

1.0 =ADPL1a.D 2.0 =ADPL2a.D 3.0 =ADPL3a.D 5.0 =ADPL4a.D 10 =ADPL5a.D 20 =ADPL6a.D 50 =ADPL7
 100 =ADPL8a.D 150 =ADPL9a.D 200 =ADPL10a.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
109) T Di-n-octylphthalate			2.111	1.706	1.737	1.807	1.911	1.793	1.774	1.886	1.841	7.00
110) T Benzo(b)fluoranthene	1.234	1.272	1.598	1.216	1.273	1.286	1.342	1.297	1.271	1.539	1.333	9.73
111) T Benzo(k)fluoranthene	1.248	1.199	1.484	1.265	1.154	1.193	1.248	1.134	1.156	1.078	1.216	9.11
112) T Benzo(a)pyrene	1.105	1.125	1.369	1.092	1.077	1.100	1.154	1.088	1.088	1.170	1.137	7.65
113) I IS1_Perylene-d12	-----ISTD-----											
114) T Indeno(1,2,3-cd)pyrene		0.928	1.143	0.929	0.952	0.969	1.075	1.096	1.116	1.270	1.053	11.13
115) T Dibenzo[a,h]anthracene	1.034	1.036	1.310	1.067	1.036	1.063	1.204	1.165	1.185	1.288	1.139	9.33
116) T Benzo(g,h,i)perylene	1.061	1.058	1.342	1.078	1.075	1.102	1.197	1.149	1.167	1.260	1.149	8.24



Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : JULIET
Calibration dates : 07/20/23 23:20 07/21/23 12:01

Lab Number : L2343170
Project Number : 2230119
Ical Ref : ICAL20193

Calibration Files

1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =AP9L6.D 50 =AP9L7.D
 100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
1) I IS1_1,4-Dichlorobenzene-d4	-----ISTD-----											
2) t N-Nitrosodimethylamine	0.594	0.571	0.578	0.566	0.564	0.595	0.620	0.671	0.671	0.669	0.610	7.35
3) t Pyridine		0.998	0.921	1.015	1.026	1.106	1.153	1.215	1.159	1.169	1.085	9.07
4) S 2-Fluorophenol	0.910	0.937	0.884	0.969	0.996	0.999	1.046	1.116	1.127	1.100	1.008	8.60
5) T Aniline	1.806	1.501	1.533	1.618	1.574	1.608	1.704	1.771	1.753	1.691	1.656	6.33
6) t 2-Chlorophenol	1.333	1.234	1.185	1.249	1.275	1.245	1.238	1.270	1.254	1.201	1.249	3.26
7) S Phenol-d6	1.300	1.206	1.206	1.225	1.275	1.266	1.344	1.386	1.385	1.317	1.291	5.24
8) T Phenol	1.469	1.436	1.327	1.418	1.402	1.411	1.493	1.523	1.511	1.432	1.442	4.08
9) T bis(2-Chloroethyl)ether	1.126	1.002	0.941	0.978	0.929	0.931	0.945	0.939	0.929	0.883	0.960	6.88
10) T 1,3-Dichlorobenzene	1.604	1.429	1.436	1.478	1.408	1.410	1.395	1.408	1.383	1.347	1.430	4.91
11) T 1,4-Dichlorobenzene	1.696	1.494	1.411	1.461	1.437	1.373	1.375	1.412	1.377	1.336	1.437	7.11
12) T 1,2-Dichlorobenzene	1.573	1.445	1.339	1.395	1.378	1.358	1.343	1.366	1.353	1.326	1.388	5.29
13) t Benzyl alcohol	0.951	0.819	0.825	0.880	0.897	0.895	0.914	0.939	0.945	0.900	0.897	5.09
14) T bis(2-chloroisopropyl)ether	1.311	1.183	1.185	1.197	1.191	1.159	1.145	1.142	1.122	1.073	1.171	5.31
15) T 2-Methylphenol	1.055	1.024	1.018	0.978	1.006	1.009	1.019	1.035	1.029	1.007	1.018	2.01
16) T Hexachloroethane	0.572	0.493	0.500	0.490	0.488	0.481	0.474	0.475	0.476	0.465	0.491	6.16
17) T n-Nitrosodi-n-propylamine	0.773	0.755	0.730	0.789	0.758	0.741	0.751	0.752	0.764	0.732	0.755	2.41
18) T 3-Methylphenol/4-Methylphenol	1.110	1.046	0.997	1.104	1.084	1.075	1.085	1.097	1.103	1.057	1.076	3.20
19) S Nitrobenzene-d5	1.254	1.150	1.122	1.197	1.191	1.139	1.152	1.154	1.135	1.103	1.160	3.76
20) T Nitrobenzene	1.241	1.197	1.130	1.139	1.129	1.095	1.095	1.103	1.085	1.032	1.125	5.25
21) T Isophorone	2.421	2.156	2.059	2.162	2.160	2.091	2.114	2.131	2.132	2.056	2.148	4.81
22) T 2-Nitrophenol		0.649	0.639	0.678	0.675	0.676	0.692	0.721	0.714	0.692	0.682	3.92
23) T 2,4-Dimethylphenol	1.348	1.062	1.106	1.150	1.127	1.163	1.167	1.196	1.200	1.145	1.167	6.51
24) T bis(2-Chloroethoxy)methane	1.455	1.323	1.231	1.326	1.265	1.208	1.215	1.228	1.212	1.152	1.262	6.83
25) T 2,4-Dichlorophenol	1.238	1.111	1.108	1.165	1.169	1.130	1.157	1.185	1.174	1.138	1.157	3.34
26) T 1,2,4-Trichlorobenzene	1.491	1.320	1.315	1.343	1.271	1.254	1.255	1.261	1.238	1.194	1.294	6.31
27) I IS2_1,4-Dichlorobenzene-d4	-----ISTD-----											
28) T Benzaldehyde	0.766	0.787	0.799	0.802	0.810	0.766	0.661	0.602	0.519	0.582	0.709	15.27
29) T Acetophenone	1.396	1.448	1.424	1.484	1.516	1.538	1.566	1.586	1.519	1.598	1.507	4.56
30) T m-Toluidine	1.293	1.356	1.402	1.463	1.384	1.373	1.249	1.187	1.078	1.178	1.296	9.35
31) T 2-Chloroaniline	1.538	1.593	1.527	1.534	1.524	1.511	1.517	1.525	1.421	1.489	1.518	2.84
32) I IS3_1,4-Dichlorobenzene-d4	-----ISTD-----											
33) T 1,4-Dioxane	0.505	0.242	0.346	0.364	0.380	0.402	0.363	0.384	0.375	0.408	0.377	17.18
34) T n-Decane		0.680	0.847	0.827	0.856	0.849	0.832	0.838	0.827	0.855	0.824	6.67
35) I IS1_Naphthalene-d8	-----ISTD-----											
36) T Naphthalene	1.170	1.033	1.005	1.002	0.982	0.978	0.961	0.940	0.907	0.877	0.985	8.13



Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : JULIET
Calibration dates : 07/20/23 23:20 07/21/23 12:01

Lab Number : L2343170
Project Number : 2230119
Ical Ref : ICAL20193

Calibration Files

1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =AP9L6.D 50 =AP9L7.D
 100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
37) T Benzoic Acid					0.186	0.221	0.244	0.252	0.250	0.249	0.234	11.03
38) T 4-Chloroaniline	0.105	0.095	0.096	0.095	0.098	0.098	0.102	0.103	0.104	0.101	0.100	3.78
39) T Hexachlorobutadiene	0.230	0.202	0.200	0.198	0.191	0.195	0.199	0.199	0.198	0.199	0.201	5.22
40) T p-Chloro-m-cresol	0.291	0.265	0.269	0.270	0.267	0.278	0.291	0.296	0.299	0.298	0.282	4.95
41) T 2-Methylnaphthalene	0.705	0.668	0.648	0.654	0.633	0.661	0.677	0.684	0.670	0.650	0.665	3.08
42) T 1-Methylnaphthalene	0.240	0.221	0.215	0.205	0.214	0.216	0.212	0.217	0.215	0.210	0.216	4.21
43) T Hexachlorocyclopentadiene				0.085	0.104	0.140	0.186	0.204	0.213	0.222	*L	0.9967
44) T 2,4,6-Trichlorophenol	0.252	0.236	0.224	0.233	0.237	0.242	0.248	0.253	0.255	0.250	0.243	4.22
45) T 2,4,5-Trichlorophenol	0.265	0.253	0.270	0.259	0.257	0.266	0.273	0.275	0.266	0.264	0.265	2.66
46) S 2-Fluorobiphenyl	0.999	0.871	0.871	0.846	0.837	0.834	0.822	0.813	0.781	0.732	0.841	8.27
47) T 2-Chloronaphthalene	0.833	0.734	0.730	0.722	0.692	0.698	0.692	0.680	0.668	0.648	0.710	7.21
48) T 2-Nitroaniline				0.231	0.228	0.236	0.237	0.244	0.240	0.233	0.236	2.21
49) T 1,4-Dinitrobenzene	0.112	0.089	0.098	0.097	0.104	0.109	0.111	0.115	0.116	0.114	0.106	8.57
50) T 1,3-Dinitrobenzene	0.130	0.122	0.123	0.118	0.122	0.119	0.123	0.122	0.121	0.118	0.122	2.81
51) T Dimethyl phthalate	1.012	0.900	0.892	0.879	0.872	0.857	0.837	0.840	0.820	0.797	0.871	6.80
52) T Acenaphthylene	1.409	1.219	1.195	1.200	1.177	1.162	1.131	1.098	1.044	0.976	1.161	9.97
53) T 2,6-Dinitrotoluene	0.202	0.180	0.176	0.178	0.178	0.180	0.179	0.182	0.179	0.173	0.181	4.31
54) T 1,2-Dinitrobenzene	0.090	0.081	0.074	0.072	0.074	0.074	0.070	0.071	0.069	0.068	0.074	8.80
55) I IS2_Naphthalene-d8	-----ISTD-----											
56) T a-Terpineol	0.164	0.187	0.186	0.187	0.188	0.191	0.192	0.190	0.186	0.191	0.186	4.31
57) T 3-Chloroaniline	0.088	0.105	0.102	0.106	0.106	0.106	0.105	0.097	0.090	0.093	0.100	7.02
58) T 2,6-Dichlorophenol	0.263	0.282	0.275	0.289	0.291	0.300	0.297	0.285	0.274	0.281	0.284	3.99
59) T 1-chloro-2-nitrobenzene	0.121	0.132	0.126	0.131	0.132	0.131	0.130	0.128	0.126	0.132	0.129	2.75
60) T Caprolactam	0.124	0.104	0.111	0.108	0.109	0.108	0.108	0.107	0.102	0.107	0.109	5.28
61) T 1,2,4,5-Tetrachlorobenzene	0.372	0.363	0.360	0.373	0.362	0.377	0.368	0.367	0.354	0.361	0.366	1.92
62) T Biphenyl	0.843	0.860	0.841	0.851	0.846	0.841	0.814	0.777	0.742	0.735	0.815	5.73
63) I IS1_Acenaphthene-d10	-----ISTD-----											
64) T 3-Nitroaniline	0.371	0.337	0.350	0.347	0.353	0.349	0.359	0.349	0.349	0.337	0.350	2.81
65) T Acenaphthene	1.309	1.213	1.115	1.113	1.083	1.063	1.043	1.056	1.025	0.987	1.101	8.67
66) T 2,4-Dinitrophenol				0.089	0.121	0.162	0.186	0.201	0.210	0.205	*L	0.9991
67) T Dibenzofuran	1.971	1.776	1.737	1.756	1.690	1.680	1.670	1.670	1.608	1.509	1.707	7.07
68) T 2,4-Dinitrotoluene	0.469	0.412	0.429	0.425	0.424	0.414	0.418	0.412	0.401	0.389	0.419	5.03
69) T 4-Nitrophenol	0.199	0.155	0.193	0.214	0.219	0.223	0.226	0.238	0.238	0.225	0.213	11.74
70) T 2,3,5,6-Tetrachlorophenol	0.372	0.320	0.334	0.342	0.337	0.354	0.375	0.378	0.376	0.371	0.356	6.00
71) T 2,3,4,6-Tetrachlorophenol	0.434	0.363	0.359	0.374	0.351	0.372	0.368	0.378	0.371	0.356	0.373	6.18
72) T Diethyl phthalate	1.697	1.459	1.456	1.478	1.419	1.395	1.406	1.382	1.331	1.256	1.428	8.07



Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : JULIET
Calibration dates : 07/20/23 23:20 07/21/23 12:01

Lab Number : L2343170
Project Number : 2230119
Ical Ref : ICAL20193

Calibration Files

1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =AP9L6.D 50 =AP9L7.D
 100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
73) T Fluorene	1.640	1.407	1.387	1.403	1.368	1.380	1.367	1.343	1.303	1.231	1.383	7.58
74) T 4-Chlorophenyl-phenylether	0.797	0.667	0.680	0.678	0.662	0.676	0.670	0.646	0.627	0.596	0.670	7.76
75) T 4-Nitroaniline	0.335	0.305	0.330	0.346	0.342	0.341	0.332	0.328	0.317	0.303	0.328	4.58
76) T 4,6-Dinitro-o-cresol				0.218	0.227	0.246	0.262	0.266	0.265	0.257	0.249	7.78
77) T NDPA/DPA	1.419	1.222	1.223	1.212	1.186	1.174	1.138	1.112	1.064	1.016	1.177	9.34
78) T Azobenzene	1.230	1.119	1.100	1.135	1.084	1.070	1.051	1.005	0.965	0.875	1.063	9.23
79) S 2,4,6-Tribromophenol	0.243	0.231	0.224	0.234	0.227	0.223	0.231	0.227	0.227	0.227	0.230	2.52
80) T 4-Bromophenyl-phenylether	0.481	0.420	0.442	0.437	0.425	0.431	0.439	0.435	0.438	0.430	0.438	3.80
81) T Hexachlorobenzene	0.588	0.540	0.521	0.522	0.497	0.489	0.489	0.490	0.481	0.467	0.508	6.99
82) T Pentachlorophenol			0.165	0.205	0.216	0.243	0.276	0.290	0.291	0.290	*L	0.9993
83) I IS2_Acenaphthene-d10	-----ISTD-----											
84) T Dichloran	0.179	0.188	0.188	0.195	0.206	0.213	0.225	0.232	0.224	0.238	0.209	9.90
85) T Pentachloronitrobenzene	0.187	0.190	0.182	0.181	0.192	0.194	0.199	0.195	0.187	0.196	0.190	3.16
86) I IS3_Acenaphthene-d10	-----ISTD-----											
87) T Atrazine		0.347	0.429	0.436	0.429	0.445	0.450	0.457	0.455	0.423	0.430	7.75
88) I IS1_Phenanthrene-d10	-----ISTD-----											
89) T Phenanthrene	1.226	1.054	1.019	1.021	1.003	0.987	0.947	0.930	0.901	0.868	0.996	10.04
90) T Anthracene	1.235	1.043	1.006	1.034	1.018	0.999	0.950	0.931	0.909	0.854	0.998	10.33
91) T Carbazole	1.159	0.967	0.960	1.005	0.989	0.956	0.912	0.900	0.888	0.852	0.959	8.88
92) T Di-n-butylphthalate	1.386	1.137	1.142	1.164	1.181	1.171	1.145	1.143	1.126	1.069	1.167	7.12
93) T Fluoranthene	1.582	1.346	1.278	1.321	1.276	1.281	1.254	1.237	1.222	1.158	1.296	8.73
94) T Benzidine	0.977	0.824	0.837	0.883	0.873	0.881	0.812	0.836	0.832	0.790	0.855	6.13
95) T Pyrene	1.722	1.429	1.385	1.402	1.368	1.330	1.254	1.214	1.166	1.086	1.335	13.18
96) S 4-Terphenyl-d14	1.205	1.019	0.989	1.007	0.990	0.947	0.919	0.904	0.900	0.864	0.974	9.87
97) T Butyl benzyl phthalate	0.638	0.551	0.542	0.563	0.575	0.578	0.580	0.589	0.602	0.580	0.580	4.62
98) I IS2_Phenanthrene-d10	-----ISTD-----											
99) T Diphenamid	0.485	0.476	0.459	0.479	0.492	0.494	0.503	0.510	0.499	0.524	0.492	3.76
100) I IS3_Phenanthrene-d10	-----ISTD-----											
101) T n-Octadecane	0.283	0.214	0.272	0.269	0.263	0.277	0.273	0.276	0.266	0.275	0.267	7.23
102) T Parathion				0.095	0.104	0.115	0.124	0.130	0.138	0.135	*L	0.9990
103) T 3,3'-Dimethylbenzidine			0.709	0.790	0.826	0.910	0.940	0.949	0.950	0.869	0.868	10.06
104) I IS1_Chrysene-d12	-----ISTD-----											
105) T Benzo[a]anthracene	1.705	1.409	1.328	1.330	1.298	1.310	1.299	1.295	1.270	1.242	1.349	9.85
106) T 3,3'-Dichlorobenzidine	0.588	0.514	0.516	0.513	0.523	0.523	0.532	0.538	0.521	0.506	0.528	4.42
107) T Chrysene	1.466	1.210	1.189	1.165	1.137	1.091	1.053	1.013	0.974	0.951	1.125	13.30
108) T bis(2-Ethylhexyl)phthalate	0.835	0.737	0.723	0.728	0.752	0.743	0.759	0.751	0.739	0.733	0.750	4.23



Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : JULIET
Calibration dates : 07/20/23 23:20 07/21/23 12:01

Lab Number : L2343170
Project Number : 2230119
Ical Ref : ICAL20193

Calibration Files

1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =AP9L6.D 50 =AP9L7.D
 100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
109) T Di-n-octylphthalate	1.461	1.275	1.271	1.316	1.355	1.418	1.500	1.508	1.488	1.468	1.406	6.65
110) T Benzo(b)fluoranthene	1.647	1.372	1.331	1.399	1.355	1.348	1.399	1.378	1.419	1.368	1.402	6.44
111) T Benzo(k)fluoranthene	1.568	1.371	1.303	1.294	1.313	1.326	1.189	1.186	1.057	1.050	1.265	12.14
112) T Benzo(a)pyrene	1.429	1.197	1.171	1.207	1.189	1.196	1.195	1.194	1.165	1.146	1.209	6.58
113) I IS1_Perylene-d12	-----ISTD-----											
114) T Indeno(1,2,3-cd)pyrene	1.154	0.952	0.958	0.994	1.017	1.047	1.070	1.106	1.128	1.166	1.059	7.41
115) T Dibenzo[a,h]anthracene	1.245	1.070	1.011	1.069	1.070	1.080	1.091	1.086	1.048	1.044	1.082	5.75
116) T Benzo(g,h,i)perylene	1.274	1.115	1.062	1.114	1.107	1.106	1.097	1.097	1.065	1.056	1.109	5.59



Response Factor Report SV109

Method Path : I:\8270\SV109\230531cal\
 Method File : FS230531SV109.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Jun 07 14:45:05 2023
 Response Via : Initial Calibration

Calibration Files

1.0 =ADPL1a.D 2.0 =ADPL2a.D 3.0 =ADPL3a.D 5.0 =ADPL4a.D 10 =ADPL5a.D 20 =ADPL6a.D 50 =ADPL7
 100 =ADPL8a.D 150 =ADPL9a.D 200 =ADPL10a.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
1) I IS1_1,4-Dichlorobenzene-d4	-----ISTD-----											
2) t N-Nitrosodimethylamine	0.657	0.688	0.797	0.714	0.725	0.703	0.788	0.739	0.758	0.806	0.738	6.69
3) t Pyridine	0.998	1.049	1.404	1.130	1.136	1.160	1.213	1.233	1.240	1.302	1.187	10.03
4) S 2-Fluorophenol	0.794	0.888	1.158	0.998	1.047	1.069	1.173	1.148	1.185	1.259	1.072	13.51
5) T Aniline	1.734	1.761	2.206	1.837	1.861	1.800	1.998	1.957	1.954	2.065	1.917	7.70
6) t 2-Chlorophenol	1.218	1.229	1.523	1.266	1.290	1.286	1.385	1.323	1.331	1.403	1.325	6.93
7) S Phenol-d6	1.189	1.291	1.601	1.360	1.390	1.419	1.549	1.521	1.511	1.603	1.443	9.53
8) T Phenol	1.461	1.376	1.801	1.481	1.511	1.461	1.614	1.586	1.568	1.668	1.553	7.88
9) T bis(2-Chloroethyl)ether	1.128	1.142	1.433	1.184	1.207	1.205	1.329	1.253	1.251	1.314	1.245	7.48
10) T 1,3-Dichlorobenzene	1.406	1.400	1.669	1.419	1.417	1.382	1.470	1.410	1.418	1.503	1.450	5.86
11) T 1,4-Dichlorobenzene	1.510	1.438	1.704	1.459	1.422	1.420	1.499	1.426	1.437	1.525	1.484	5.82
12) T 1,2-Dichlorobenzene	1.381	1.396	1.642	1.387	1.384	1.373	1.460	1.391	1.401	1.488	1.430	5.82
13) t Benzyl alcohol	0.857	0.960	1.240	1.017	1.081	1.100	1.217	1.199	1.165	1.237	1.107	11.70
14) T bis(2-chloroisopropyl)ether	1.612	1.638	1.895	1.615	1.628	1.643	1.738	1.577	1.566	1.537	1.645	6.28
15) T 2-Methylphenol	1.028	1.107	1.285	1.061	1.108	1.113	1.207	1.164	1.156	1.216	1.145	6.73
16) T Hexachloroethane	0.580	0.631	0.739	0.618	0.612	0.607	0.645	0.608	0.620	0.637	0.630	6.72
17) T n-Nitrosodi-n-propylamine	0.910	0.938	1.170	0.962	0.988	0.993	1.071	1.040	1.016	1.048	1.014	7.34
18) T 3-Methylphenol/4-Methylphenol	0.929	1.116	1.380	1.171	1.169	1.182	1.277	1.249	1.227	1.306	1.201	10.22
19) S Nitrobenzene-d5	1.301	1.335	1.637	1.367	1.388	1.429	1.552	1.498	1.470	1.539	1.452	7.36
20) T Nitrobenzene	1.216	1.304	1.636	1.331	1.399	1.425	1.545	1.471	1.448	1.509	1.428	8.62
21) T Isophorone	2.522	2.652	3.162	2.655	2.639	2.642	2.871	2.824	2.714	2.897	2.758	6.69
22) T 2-Nitrophenol			0.748	0.632	0.649	0.673	0.750	0.735	0.730	0.777	0.712	7.46
23) T 2,4-Dimethylphenol	1.173	1.203	1.505	1.214	1.274	1.276	1.407	1.386	1.366	1.470	1.327	8.73
24) T bis(2-Chloroethoxy)methane	1.502	1.638	1.971	1.612	1.631	1.639	1.741	1.685	1.638	1.747	1.680	7.33
25) T 2,4-Dichlorophenol	0.930	1.035	1.324	1.113	1.134	1.128	1.231	1.205	1.173	1.285	1.156	10.06
26) T 1,2,4-Trichlorobenzene	1.272	1.245	1.523	1.254	1.265	1.241	1.338	1.290	1.276	1.385	1.309	6.68
27) I IS2_1,4-Dichlorobenzene-d4	-----ISTD-----											
28) T Benzaldehyde			0.811	0.836	0.895	0.907	0.867	0.821	0.811	0.638	0.823	10.15
29) T Acetophenone		1.603	1.580	1.700	1.753	1.860	1.866	1.929	1.965	1.885	1.793	7.84
30) T m-Toluidine		1.459	1.425	1.475	1.567	1.643	1.601	1.559	1.569	1.380	1.520	5.80
31) T 2-Chloroaniline		1.570	1.527	1.563	1.599	1.689	1.663	1.701	1.714	1.663	1.632	4.18
32) I IS3_1,4-Dichlorobenzene-d4	-----ISTD-----											
33) T 1,4-Dioxane	0.444	0.441	0.401	0.413	0.409	0.419	0.436	0.418	0.388	0.366	0.414	5.87
34) T n-Decane	1.069	1.170	1.185	1.176	1.232	1.228	1.226	1.208	1.165	1.143	1.180	4.19
35) I IS1_Naphthalene-d8	-----ISTD-----											
36) T Naphthalene	0.997	0.965	1.161	0.964	0.948	0.962	1.016	0.976	0.977	1.018	0.998	6.17
37) T Benzoic Acid				0.160	0.195	0.220	0.263	0.279	0.265	0.293	*L	0.9975
38) T 4-Chloroaniline	0.117	0.117	0.150	0.124	0.122	0.128	0.136	0.131	0.129	0.136	0.129	7.78
39) T Hexachlorobutadiene	0.199	0.208	0.240	0.197	0.196	0.199	0.212	0.200	0.206	0.219	0.207	6.55
40) T p-Chloro-m-cresol	0.264	0.280	0.358	0.297	0.296	0.306	0.329	0.324	0.320	0.341	0.311	9.08
41) T 2-Methylnaphthalene	0.631	0.618	0.737	0.636	0.633	0.642	0.689	0.676	0.667	0.705	0.663	5.77
42) T 1-Methylnaphthalene	0.251	0.244	0.284	0.252	0.239	0.243	0.260	0.252	0.246	0.262	0.254	5.10
43) T Hexachlorocyclopentadiene					0.103	0.130	0.181	0.202	0.210	0.229	*L	0.9965
44) T 2,4,6-Trichlorophenol	0.193	0.183	0.244	0.195	0.204	0.210	0.229	0.234	0.228	0.252	0.217	10.75
45) T 2,4,5-Trichlorophenol	0.219	0.230	0.255	0.215	0.230	0.230	0.255	0.253	0.248	0.270	0.241	7.55

Response Factor Report SV109

Method Path : I:\8270\SV109\230531ical\
 Method File : FS230531SV109.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Jun 07 14:45:05 2023
 Response Via : Initial Calibration

Calibration Files

1.0 =ADPL1a.D 2.0 =ADPL2a.D 3.0 =ADPL3a.D 5.0 =ADPL4a.D 10 =ADPL5a.D 20 =ADPL6a.D 50 =ADPL7
 100 =ADPL8a.D 150 =ADPL9a.D 200 =ADPL10a.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
46) S 2-Fluorobiphenyl	0.767	0.765	0.944	0.782	0.773	0.764	0.805	0.785	0.771	0.829	0.798	6.89
47) T 2-Chloronaphthalene	0.659	0.651	0.817	0.669	0.659	0.660	0.699	0.674	0.661	0.709	0.686	7.25
48) T 2-Nitroaniline				0.207	0.220	0.224	0.243	0.238	0.231	0.250	0.231	6.40
49) T 1,4-Dinitrobenzene			0.102	0.087	0.094	0.099	0.111	0.114	0.110	0.119	0.104	10.46
50) T 1,3-Dinitrobenzene		0.089	0.118	0.107	0.111	0.112	0.124	0.127	0.123	0.134	0.116	11.45
51) T Dimethyl phthalate	0.806	0.839	1.048	0.843	0.828	0.822	0.867	0.838	0.815	0.885	0.859	8.20
52) T Acenaphthylene	1.048	1.075	1.321	1.076	1.061	1.043	1.115	1.076	1.053	1.105	1.097	7.47
53) T 2,6-Dinitrotoluene		0.160	0.212	0.173	0.176	0.177	0.186	0.188	0.182	0.200	0.184	8.36
54) T 1,2-Dinitrobenzene		0.074	0.089	0.076	0.075	0.076	0.081	0.080	0.077	0.081	0.079	5.85
55) I IS2_Naphthalene-d8	-----ISTD-----											
56) T a-Terpineol		0.257	0.256	0.255	0.267	0.276	0.266	0.262	0.261	0.253	0.261	2.73
57) T 3-Chloroaniline		0.117	0.129	0.137	0.140	0.139	0.137	0.132	0.128	0.119	0.131	6.44
58) T 2,6-Dichlorophenol		0.242	0.253	0.252	0.278	0.280	0.276	0.277	0.277	0.283	0.269	5.68
59) T 1-chloro-2-nitrobenzene		0.131	0.131	0.130	0.144	0.149	0.147	0.147	0.151	0.150	0.142	6.19
60) T Caprolactam				0.146	0.149	0.152	0.150	0.149	0.148	0.149	0.149	1.19
61) T 1,2,4,5-Tetrachlorobenzene		0.333	0.332	0.342	0.347	0.354	0.346	0.347	0.347	0.357	0.345	2.42
62) T Biphenyl	0.812	0.801	0.806	0.812	0.821	0.852	0.825	0.825	0.821	0.818	0.819	1.70
63) I IS1_Acenaphthene-d10	-----ISTD-----											
64) T 3-Nitroaniline				0.353	0.363	0.367	0.398	0.388	0.380	0.394	0.378	4.54
65) T Acenaphthene	1.141	1.129	1.406	1.160	1.136	1.136	1.207	1.166	1.170	1.234	1.188	7.03
66) T 2,4-Dinitrophenol				0.084	0.127	0.144	0.179	0.193	0.190	0.206	*L	0.9948
67) T Dibenzofuran	1.787	1.787	2.224	1.790	1.757	1.770	1.870	1.802	1.801	1.887	1.847	7.50
68) T 2,4-Dinitrotoluene		0.350	0.482	0.381	0.418	0.422	0.461	0.444	0.440	0.473	0.430	9.98
69) T 4-Nitrophenol			0.261	0.207	0.240	0.273	0.307	0.315	0.312	0.323	0.280	14.87
70) T 2,3,5,6-Tetrachlorophenol				0.283	0.324	0.334	0.378	0.378	0.377	0.408	0.354	12.03
71) T 2,3,4,6-Tetrachlorophenol		0.307	0.424	0.353	0.355	0.357	0.388	0.391	0.387	0.412	0.375	9.48
72) T Diethyl phthalate	1.615	1.682	2.037	1.655	1.661	1.651	1.750	1.672	1.651	1.721	1.710	7.10
73) T Fluorene	1.415	1.426	1.789	1.444	1.431	1.435	1.530	1.472	1.469	1.532	1.494	7.45
74) T 4-Chlorophenyl-phenylether	0.700	0.694	0.867	0.705	0.703	0.689	0.743	0.695	0.696	0.732	0.722	7.42
75) T 4-Nitroaniline			0.431	0.340	0.358	0.361	0.375	0.364	0.355	0.375	0.370	7.32
76) T 4,6-Dinitro-o-cresol				0.141	0.179	0.193	0.225	0.233	0.228	0.244	*L	0.9988
77) T NDPA/DPA	1.212	1.244	1.524	1.249	1.237	1.232	1.317	1.264	1.253	1.307	1.284	7.03
78) T Azobenzene	1.470	1.528	1.835	1.499	1.476	1.484	1.573	1.459	1.467	1.634	1.542	7.56
79) S 2,4,6-Tribromophenol	0.152	0.189	0.235	0.190	0.202	0.213	0.232	0.235	0.232	0.254	0.213	14.17
80) T 4-Bromophenyl-phenylether	0.416	0.426	0.509	0.420	0.420	0.428	0.461	0.452	0.454	0.488	0.447	7.08
81) T Hexachlorobenzene	0.475	0.511	0.618	0.493	0.481	0.487	0.522	0.517	0.512	0.548	0.516	8.15
82) T Pentachlorophenol			0.187	0.147	0.187	0.206	0.251	0.273	0.275	0.298	*Q	0.9989
83) I IS2_Acenaphthene-d10	-----ISTD-----											
84) T Dichloran			0.145	0.153	0.172	0.185	0.196	0.208	0.212	0.213	0.186	14.35
85) T Pentachloronitrobenzene			0.177	0.186	0.200	0.208	0.213	0.225	0.217	0.221	0.206	8.37
86) I IS3_Acenaphthene-d10	-----ISTD-----											
87) T Atrazine		0.370	0.393	0.419	0.425	0.430	0.433	0.443	0.434	0.439	0.421	5.73
88) I IS1_Phenanthrene-d10	-----ISTD-----											
89) T Phenanthrene	1.050	1.022	1.238	1.036	0.997	0.993	1.084	1.035	1.056	1.105	1.062	6.70
90) T Anthracene	1.014	0.996	1.234	1.022	1.007	1.002	1.097	1.055	1.066	1.116	1.061	6.93

Response Factor Report SV109

Method Path : I:\8270\SV109\230531ical\
 Method File : FS230531SV109.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Jun 07 14:45:05 2023
 Response Via : Initial Calibration

Calibration Files

1.0 =ADPL1a.D 2.0 =ADPL2a.D 3.0 =ADPL3a.D 5.0 =ADPL4a.D 10 =ADPL5a.D 20 =ADPL6a.D 50 =ADPL7
 100 =ADPL8a.D 150 =ADPL9a.D 200 =ADPL10a.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
91) T Carbazole	1.002	0.990	1.196	0.999	0.976	0.977	1.050	1.007	1.006	1.062	1.027	6.41
92) T Di-n-butylphthalate	1.289	1.309	1.599	1.347	1.338	1.350	1.455	1.390	1.391	1.440	1.391	6.49
93) T Fluoranthene	1.219	1.207	1.459	1.218	1.188	1.182	1.297	1.262	1.252	1.322	1.261	6.61
94) T Benzidine		0.772	0.910	0.786	0.748	0.720	0.753	0.749	0.774	0.843	0.784	7.44
95) T Pyrene	1.274	1.287	1.558	1.272	1.250	1.228	1.333	1.262	1.286	1.326	1.308	7.14
96) S 4-Terphenyl-d14	0.968	0.945	1.137	0.952	0.916	0.924	1.006	0.975	0.985	1.037	0.984	6.59
97) T Butyl benzyl phthalate				0.598	0.607	0.609	0.667	0.647	0.644	0.672	0.635	4.76
98) I IS2_Phenanthrene-d10	-----ISTD-----											
99) T Diphenamid	0.505	0.475	0.496	0.517	0.528	0.526	0.519	0.528	0.519	0.512	0.512	3.43
100) I IS3_Phenanthrene-d10	-----ISTD-----											
101) T n-Octadecane				0.422	0.426	0.436	0.425	0.428	0.403	0.390	0.419	3.89
102) T Parathion				0.096	0.103	0.110	0.120	0.131	0.134	0.134	0.118	13.30
103) T 3,3'-Dimethylbenzidine				0.587	0.647	0.708	0.770	0.801	0.841	0.831	0.812	12.39
104) I IS1_Chrysene-d12	-----ISTD-----											
105) T Benzo[a]anthracene	1.467	1.394	1.676	1.341	1.316	1.344	1.378	1.310	1.308	1.406	1.394	7.97
106) T 3,3'-Dichlorobenzidine		0.486	0.640	0.510	0.511	0.518	0.542	0.518	0.516	0.553	0.533	8.34
107) T Chrysene	1.370	1.379	1.590	1.283	1.211	1.221	1.273	1.157	1.168	1.234	1.289	10.06
108) T bis(2-Ethylhexyl)phthalate		0.987	1.238	0.994	1.026	1.041	1.081	0.998	0.986	1.041	1.044	7.62
109) T Di-n-octylphthalate			2.111	1.706	1.737	1.807	1.911	1.793	1.774	1.886	1.841	7.00
110) T Benzo(b)fluoranthene	1.234	1.272	1.598	1.216	1.273	1.286	1.342	1.297	1.271	1.539	1.333	9.73
111) T Benzo(k)fluoranthene	1.248	1.199	1.484	1.265	1.154	1.193	1.248	1.134	1.156	1.078	1.216	9.11
112) T Benzo(a)pyrene	1.105	1.125	1.369	1.092	1.077	1.100	1.154	1.088	1.088	1.170	1.137	7.65
113) I IS1_Perylene-d12	-----ISTD-----											
114) T Indeno(1,2,3-cd)pyrene		0.928	1.143	0.929	0.952	0.969	1.075	1.096	1.116	1.270	1.053	11.13
115) T Dibenzo[a,h]anthracene	1.034	1.036	1.310	1.067	1.036	1.063	1.204	1.165	1.185	1.288	1.139	9.33
116) T Benzo(g,h,i)perylene	1.061	1.058	1.342	1.078	1.075	1.102	1.197	1.149	1.167	1.260	1.149	8.24

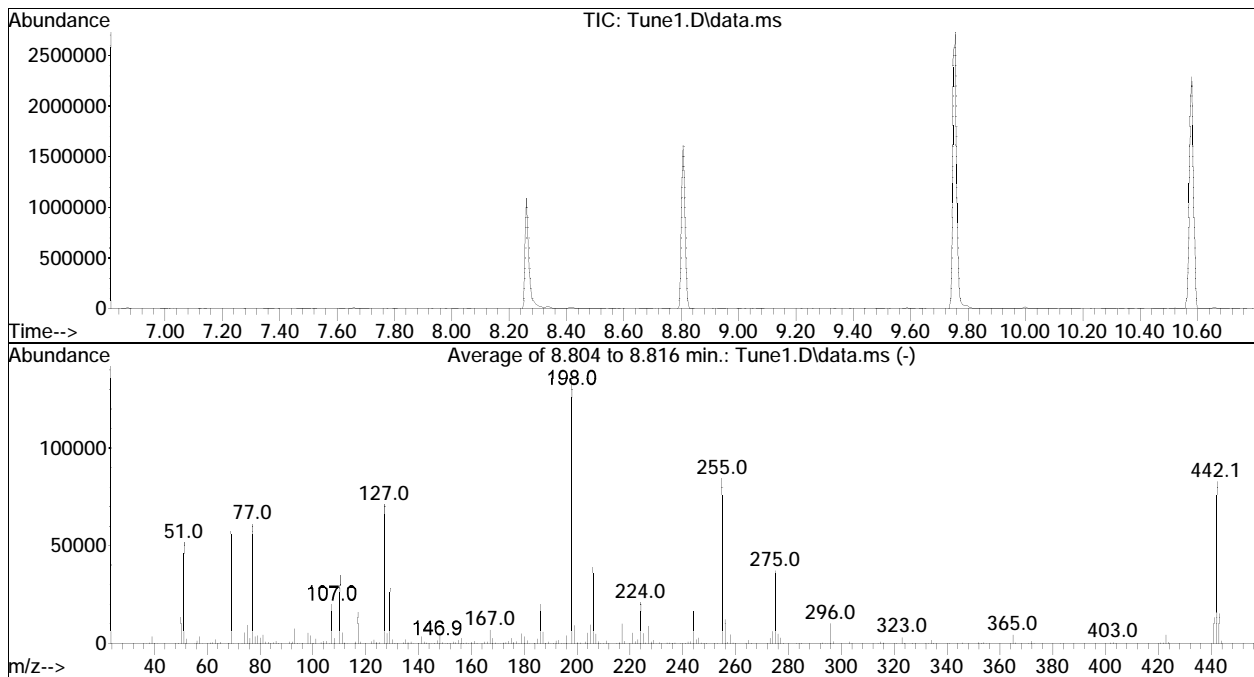
(#) = Out of Range

DFTPP

Data Path : I:\8270\SV109\230531ical\
 Data File : Tune1.D
 Acq On : 31 May 2023 7:45 pm
 Operator : SV109:jg
 Sample : Tune1
 Misc : WG1788374,,
 ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Jun 07 14:45:05 2023

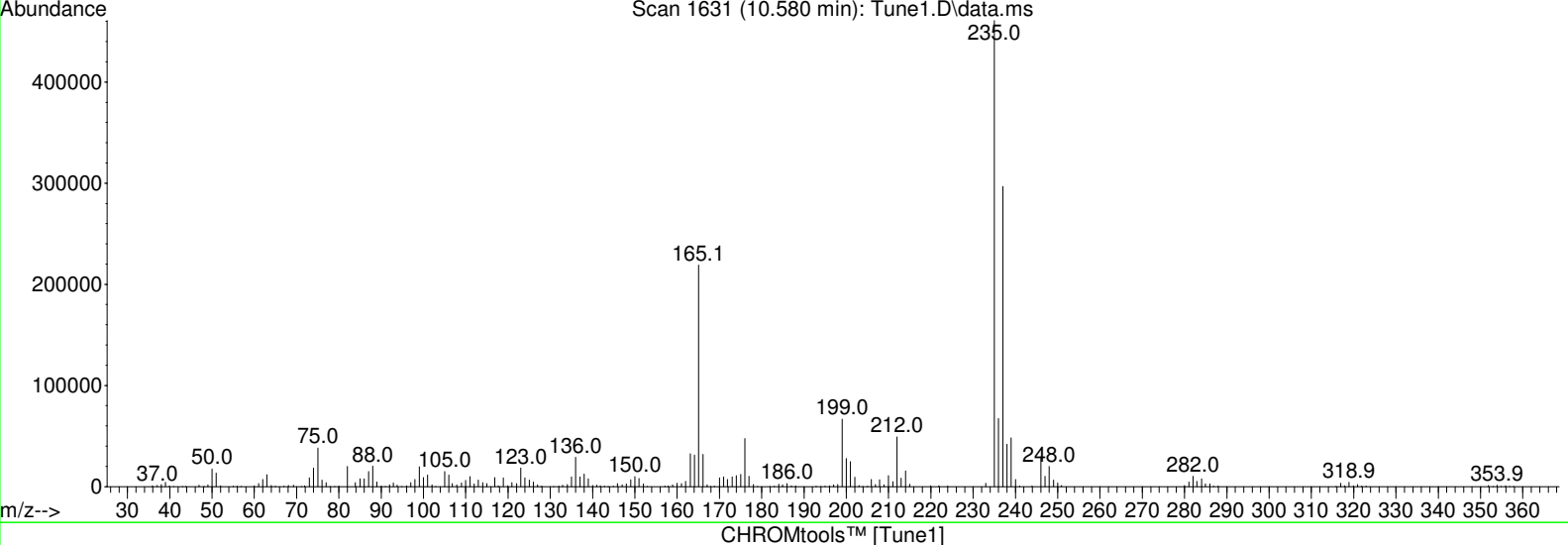
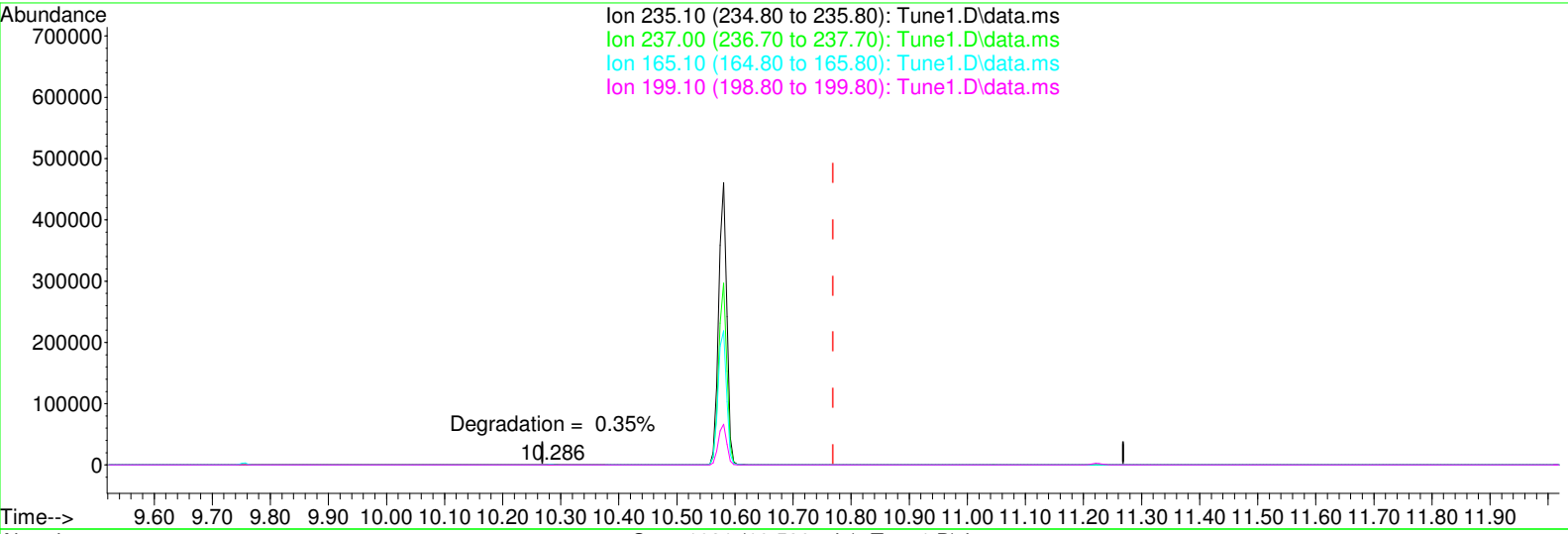


Spectrum Information: Average of 8.804 to 8.816 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.2	51589	PASS
68	69	0.00	2	0.9	502	PASS
69	69	100	100	100.0	57424	PASS
70	69	0.00	2	0.5	284	PASS
127	198	10	80	52.5	70925	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	135104	PASS
199	198	5	9	6.6	8952	PASS
275	198	10	60	27.4	37080	PASS
365	198	1	100	3.2	4384	PASS
441	442	0.01	24	15.9	13203	PASS
442	198	50	100	61.3	82819	PASS
443	442	15	24	18.5	15318	PASS

Data Path : I:\8270\SV109\230531ical\
 Data File : Tune1.D
 Acq On : 31 May 2023 7:45 pm
 Operator : SV109:jg
 Sample : Tune1
 Misc : WG1788374,,
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 06 13:11:59 2023
 Quant Method : I:\8270\SV109\230531ical\DftppSV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sun May 14 17:54:04 2023
 Response via : Initial Calibration



(6) DDT (T)

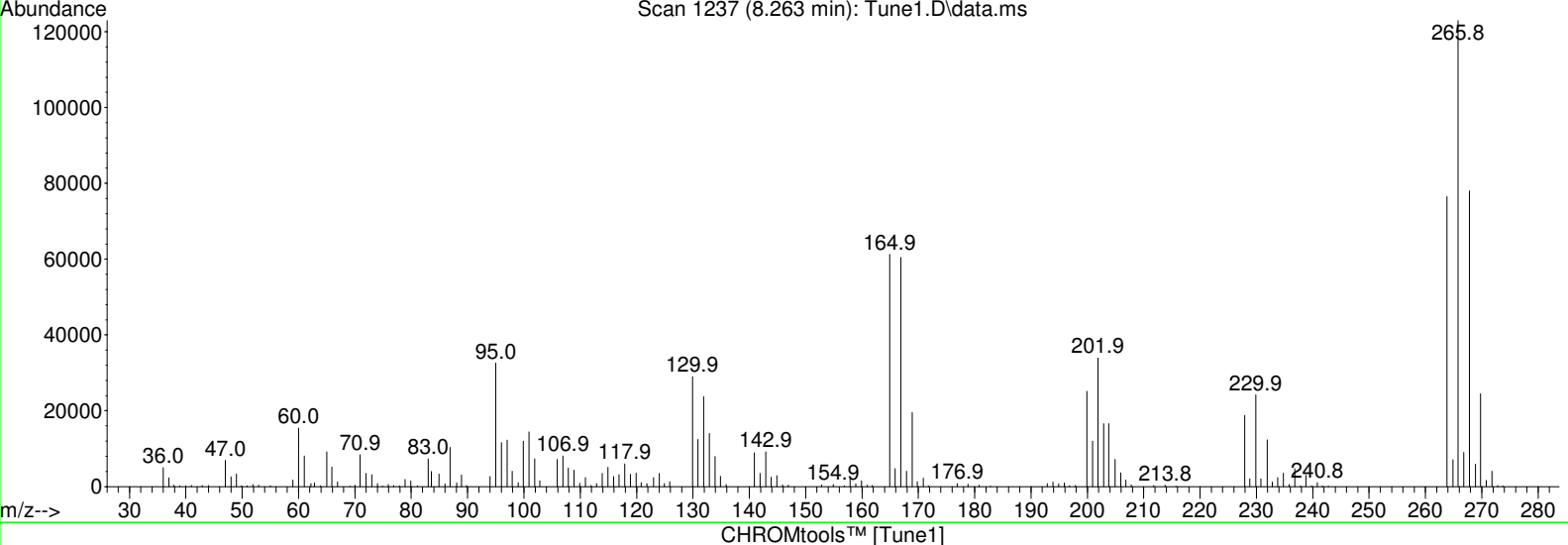
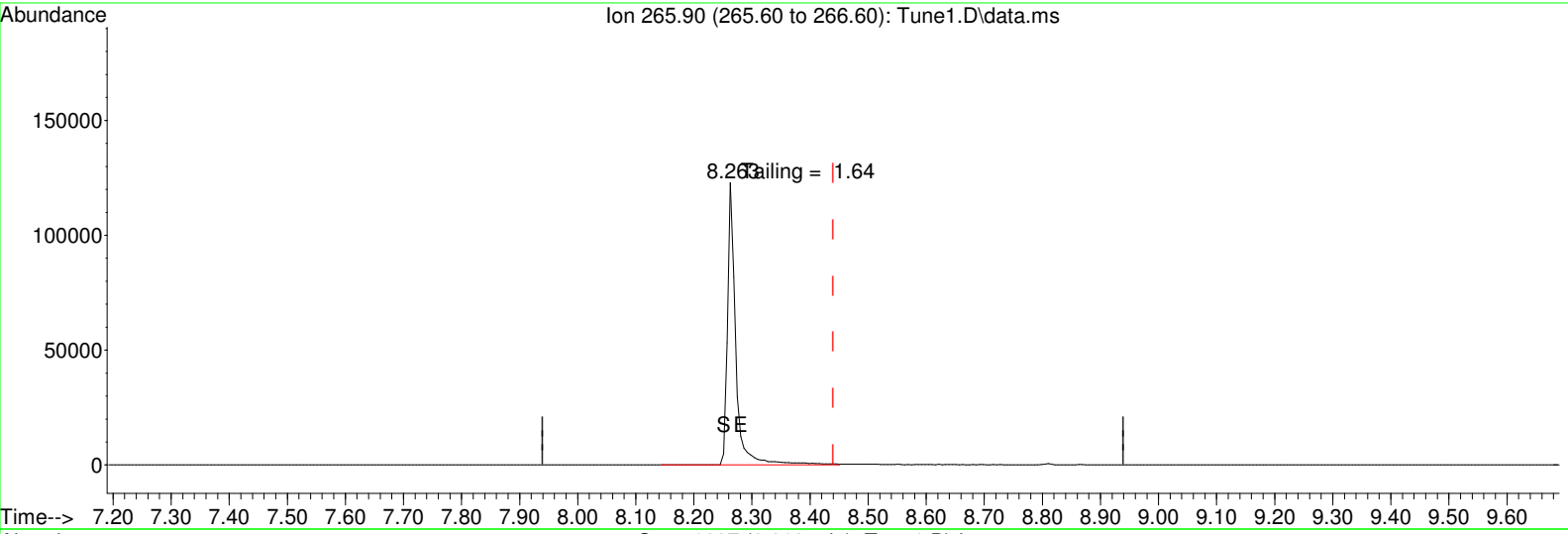
10.580min (-0.188) 73.26

response 446571

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.40	64.33
165.10	56.60	49.56
199.10	15.90	14.92

Data Path : I:\8270\SV109\230531ical\
 Data File : Tune1.D
 Acq On : 31 May 2023 7:45 pm
 Operator : SV109:jg
 Sample : Tune1
 Misc : WG1788374,,
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 06 13:11:59 2023
 Quant Method : I:\8270\SV109\230531ical\DftppSV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sun May 14 17:54:04 2023
 Response via : Initial Calibration



(1) Pentachlorophenol (T)

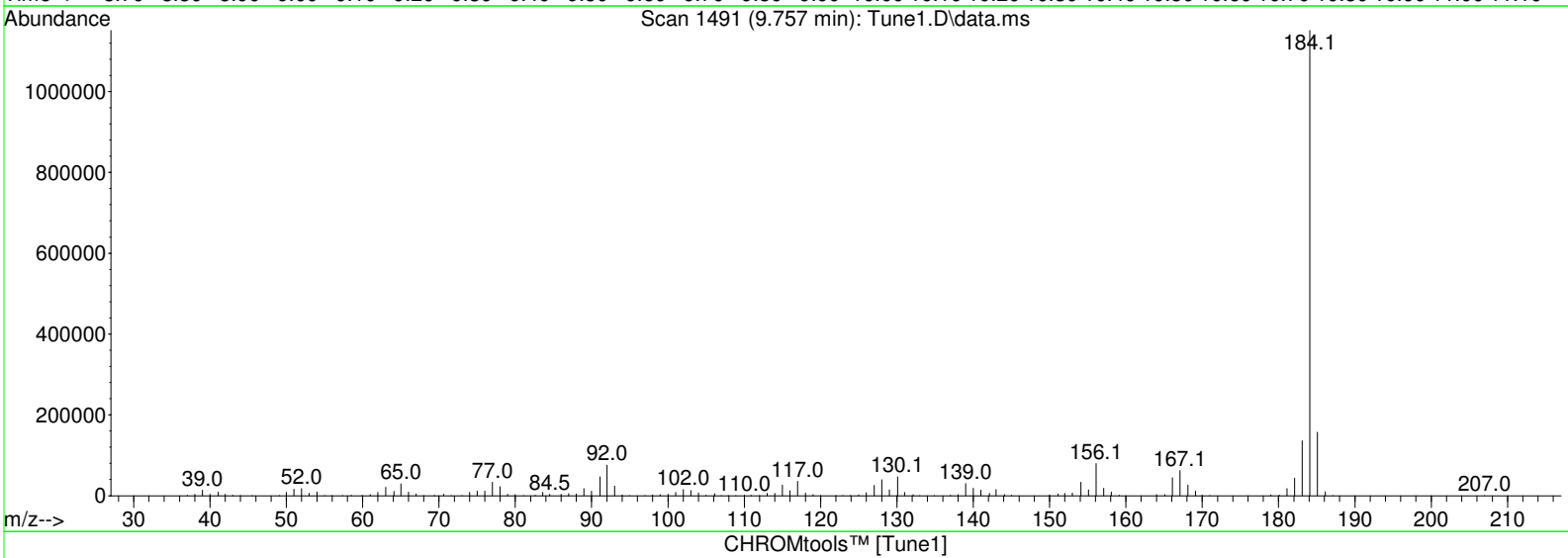
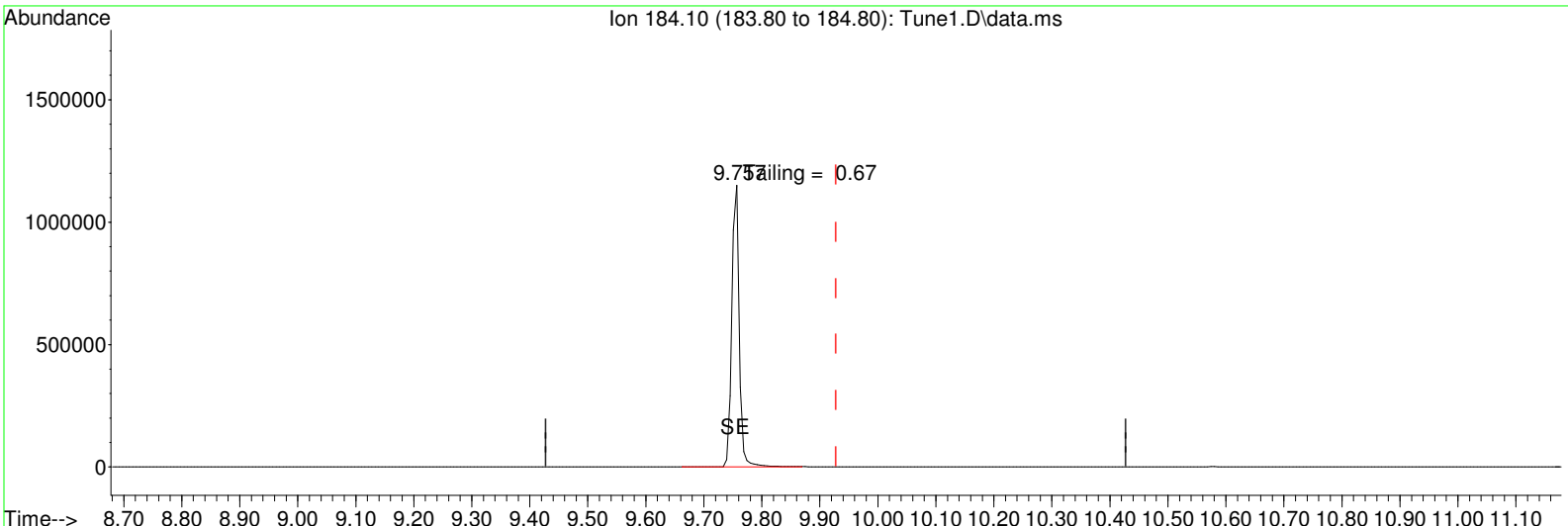
8.263min (-0.177) 58.79

response 123473

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\8270\SV109\230531ical\
 Data File : Tune1.D
 Acq On : 31 May 2023 7:45 pm
 Operator : SV109:jg
 Sample : Tune1
 Misc : WG1788374,,
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 06 13:11:59 2023
 Quant Method : I:\8270\SV109\230531ical\DftppSV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sun May 14 17:54:04 2023
 Response via : Initial Calibration



(3) Benzidine (T)

9.757min (-0.171) 102.17

response 1040046

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL10.D
 Acq On : 31 May 2023 8:09 pm
 Operator : SV109:jg
 Sample : IL1,32,,ABNL200 Lot# 9914
 Misc : WG1788374,,
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 07 13:14:53 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.051	152	211372	40.000	ug/ml	# 0.00
Standard Area 1 = 228780			Recovery =	92.39%		
35) IS1_Naphthalene-d8	5.298	136	851265	40.000	ug/ml	0.00
Standard Area 1 = 921334			Recovery =	92.39%		
63) IS1_Acenaphthene-d10	6.998	164	469371	40.000	ug/ml	0.00
Standard Area 1 = 502804			Recovery =	93.35%		
88) IS1_Phenanthrene-d10	8.416	188	979267	40.000	ug/ml	0.00
Standard Area 1 = 1064896			Recovery =	91.96%		
104) IS1_Chrysene-d12	11.057	240	897892	40.000	ug/ml	0.02
Standard Area 1 = 968465			Recovery =	92.71%		
113) IS1_Perylene-d12	12.927	264	902487	40.000	ug/ml	0.02
Standard Area 1 = 1019256			Recovery =	88.54%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.728	112	1330840	234.958	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery =	469.92%#		
7) Phenol-d6	3.781	99	1694521	222.150	ug/ml	0.01
Spiked Amount 50.000	Range 30 - 130		Recovery =	444.30%#		
19) Nitrobenzene-d5	4.616	82	1626952	212.104	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	848.42%#		
46) 2-Fluorobiphenyl	6.380	172	3526844	207.548	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	830.19%#		
79) 2,4,6-Tribromophenol	7.769	330	595172	237.689	ug/ml	0.01
Spiked Amount 50.000	Range 30 - 130		Recovery =	475.38%#		
96) 4-Terphenyl-d14	10.004	244	5076468	210.639	ug/ml	0.02
Spiked Amount 25.000	Range 40 - 140		Recovery =	842.56%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.346	74	851605M4	218.466	ug/ml	
3) Pyridine	1.357	79	1376264M4	219.497	ug/ml	
5) Aniline	3.734	93	2182011	215.372	ug/ml#	61
6) 2-Chlorophenol	3.845	128	1483189	211.769	ug/ml	98
8) Phenol	3.798	94	1763180	214.887	ug/ml#	63
9) Bis(2-chloroethyl)ether	3.839	93	1388552	211.107	ug/ml	87
10) 1,3-Dichlorobenzene	3.987	146	1588374	207.366	ug/ml	98
11) 1,4-Dichlorobenzene	4.063	146	1611952	205.552	ug/ml	98
12) 1,2-Dichlorobenzene	4.210	146	1572172	208.037	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL10.D
 Acq On : 31 May 2023 8:09 pm
 Operator : SV109:jg
 Sample : IL1,32,,ABNL200 Lot# 9914
 Misc : WG1788374,,
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 07 13:14:53 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.245	79	1307471	223.461	ug/ml	94
14) Bis(2-chloroisopropyl)...	4.375	45	1624270	186.855	ug/ml#	67
15) 2-Methylphenol	4.381	108	1284843	212.438	ug/ml	99
16) Hexachloroethane	4.534	117	672949	202.245	ug/ml	95
17) n-Nitrosodi-n-propylamine	4.522	70	1107676	206.807	ug/ml	97
18) 3-Methylphenol/4-Methy...	4.557	108	1379860	217.482	ug/ml	100
20) Nitrobenzene	4.639	77	1595054	211.316	ug/ml	97
21) Isophorone	4.898	82	3061892	210.108	ug/ml	97
22) 2-Nitrophenol	4.951	139	820999	218.259	ug/ml#	97
23) 2,4-Dimethylphenol	5.063	107	1553635	221.483	ug/ml	95
24) Bis(2-chloroethoxy)met...	5.139	93	1845840	207.895	ug/ml#	96
25) 2,4-Dichlorophenol	5.210	162	1357948	222.332	ug/ml	100
26) 1,2,4-Trichlorobenzene	5.263	180	1463390	211.587	ug/ml	99
36) Naphthalene	5.322	128	4334816	203.999	ug/ml	100
37) Benzoic Acid	5.316	105	1247201	208.801	ug/ml#	90
38) 4-Chloroaniline	5.416	65	576740	210.068	ug/ml	97
39) Hexachlorobutadiene	5.475	225	931706	211.057	ug/ml	99
40) p-Chloro-m-cresol	5.933	107	1449357	218.693	ug/ml	98
41) 2-Methylnaphthalene	6.004	142	3000813	212.539	ug/ml	98
42) 1-Methylnaphthalene	6.092	115	1114134	206.513	ug/ml	83
43) Hexachlorocyclopentadiene	6.169	237	974209	210.037	ug/ml	99
44) 2,4,6-Trichlorophenol	6.304	196	1070610	231.686	ug/ml	99
45) 2,4,5-Trichlorophenol	6.339	196	1150192	224.631	ug/ml	99
47) 2-Chloronaphthalene	6.469	162	3015649	206.646	ug/ml	99
48) 2-Nitroaniline	6.604	138	1065244	217.061	ug/ml	98
49) 1,4-Dinitrobenzene	6.757	168	506460	228.006	ug/ml	98
50) 1,3-Dinitrobenzene	6.845	168	571135	224.394	ug/ml#	47
51) Dimethyl phthalate	6.828	163	3766184	205.987	ug/ml	100
52) Acenaphthylene	6.863	152	4702581	201.382	ug/ml	99
53) 2,6-Dinitrotoluene	6.863	165	852100	218.011	ug/ml#	63
54) 1,2-Dinitrobenzene	6.910	168	344952	205.618	ug/ml#	21
64) 3-Nitroaniline	7.016	138	925024	208.773	ug/ml	95
65) Acenaphthene	7.033	154	2895000	207.594	ug/ml	99
66) 2,4-Dinitrophenol	7.128	184	484123	216.227	ug/ml	96
67) Dibenzofuran	7.204	168	4427741	204.261	ug/ml	95
68) 2,4-Dinitrotoluene	7.251	165	1110071	219.927	ug/ml	88
69) 4-Nitrophenol	7.233	65	757834	231.002	ug/ml#	83
70) 2,3,5,6-Tetrachlorophenol	7.304	232	956953	230.089	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL10.D
 Acq On : 31 May 2023 8:09 pm
 Operator : SV109:jg
 Sample : IL1,32,,ABNL200 Lot# 9914
 Misc : WG1788374,,
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 07 13:14:53 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

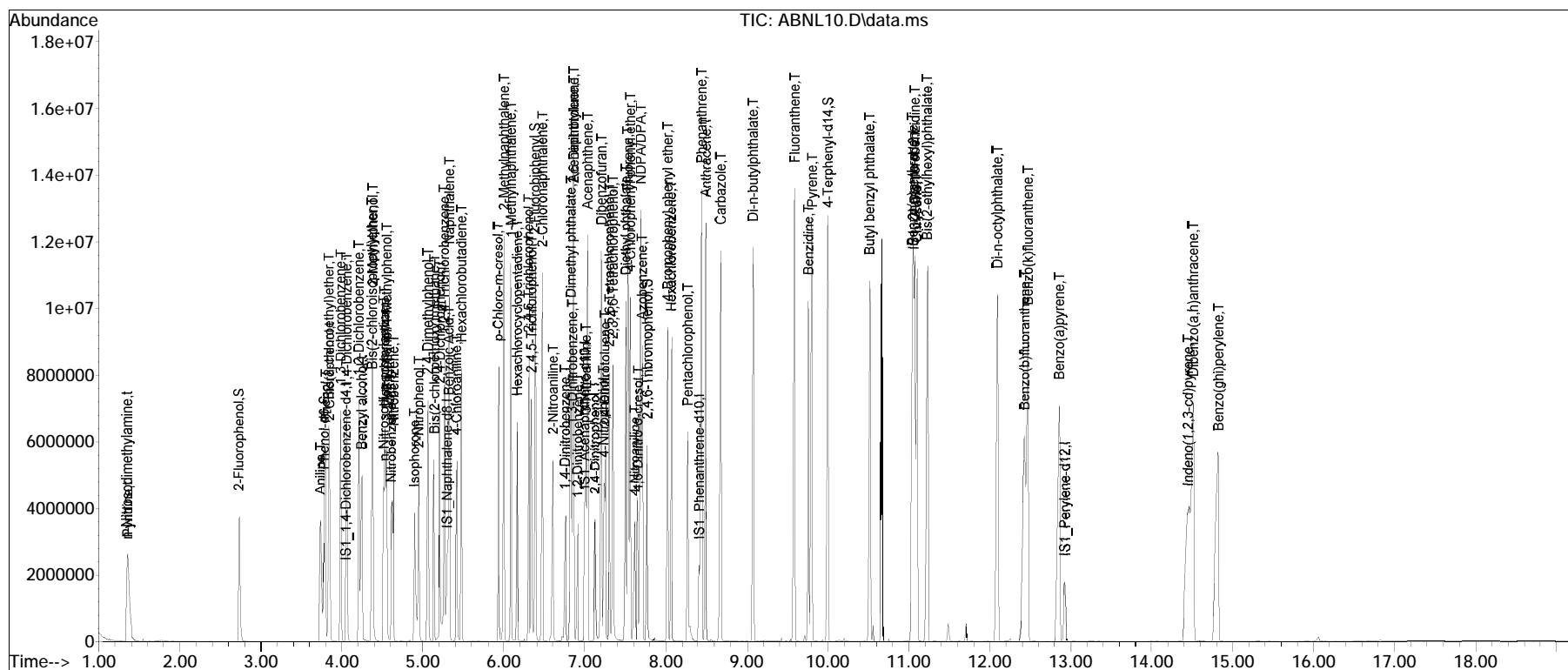
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	7.345	232	965797	219.553	ug/ml	99
72) Diethyl phthalate	7.504	149	4039316	201.352	ug/ml	99
73) Fluorene	7.533	166	3594310	204.975	ug/ml	97
74) 4-Chlorophenyl phenyl ...	7.557	204	1717667	202.638	ug/ml	100
75) 4-Nitroaniline	7.616	138	879417	202.694	ug/ml#	85
76) 4,6-Dinitro-o-cresol	7.657	198	573718	206.647	ug/ml	94
77) NDPA/DPA	7.692	169	3066327	203.539	ug/ml	99
78) Azobenzene	7.710	77	3834544	211.860	ug/ml	95
80) 4-Bromophenyl phenyl e...	8.022	248	1144756	218.021	ug/ml	98
81) Hexachlorobenzene	8.069	284	1286754	212.372	ug/ml	97
82) Pentachlorophenol	8.269	266	698867	200.420	ug/ml	99
89) Phenanthrene	8.445	178	5410455	208.158	ug/ml	99
90) Anthracene	8.498	178	5463943	210.383	ug/ml	99
91) Carbazole	8.674	167	5198655	206.854	ug/ml	99
92) Di-n-butylphthalate	9.074	149	7052897	207.139	ug/ml	98
93) Fluoranthene	9.592	202	6470762	209.662	ug/ml#	96
94) Benzidine	9.763	184	4125669	215.064	ug/ml	97
95) Pyrene	9.804	202	6490605	202.756	ug/ml	99
97) Butyl benzyl phthalate	10.521	149	3290904	211.735	ug/ml	98
105) Benzo(a)anthracene	11.045	228	6314414	201.795	ug/ml	100
106) 3,3'-Dichlorobenzidine	11.068	252	2483653	207.716	ug/ml	98
107) Chrysene	11.098	228	5541584	191.578	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	11.227	149	4674755	199.524	ug/ml	98
109) Di-n-octylphthalate	12.092	149	8465610	204.889	ug/ml#	94
110) Benzo(b)fluoranthene	12.433	252	6909873	230.982	ug/ml#	96
111) Benzo(k)fluoranthene	12.474	252	4839189	177.272	ug/ml#	97
112) Benzo(a)pyrene	12.862	252	5252719	205.839	ug/ml	97
114) Indeno(1,2,3-cd)pyrene	14.451	276	5730694	241.201	ug/ml	96
115) Dibenzo(a,h)anthracene	14.509	278	5809859	226.100	ug/ml#	95
116) Benzo(ghi)perylene	14.821	276	5684896	219.300	ug/ml	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL10.D
 Acq On : 31 May 2023 8:09 pm
 Operator : SV109:jg
 Sample : IL1,32,,ABNL200 Lot# 9914
 Misc : WG1788374,,
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 07 13:14:53 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

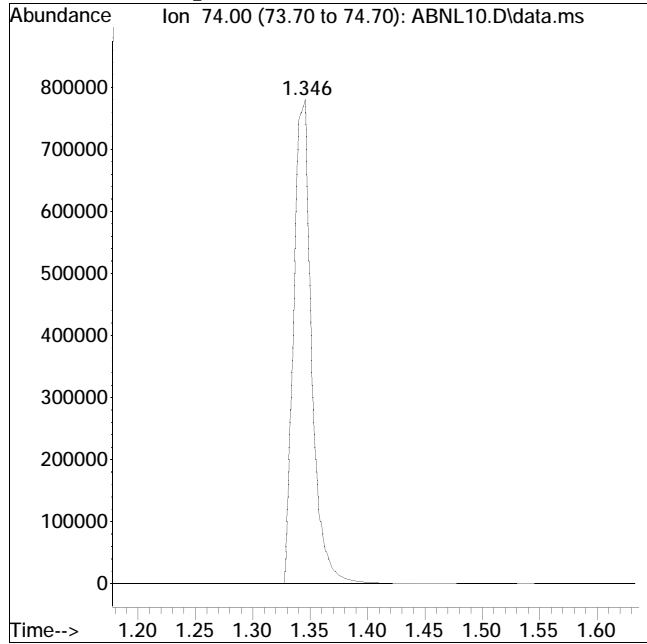
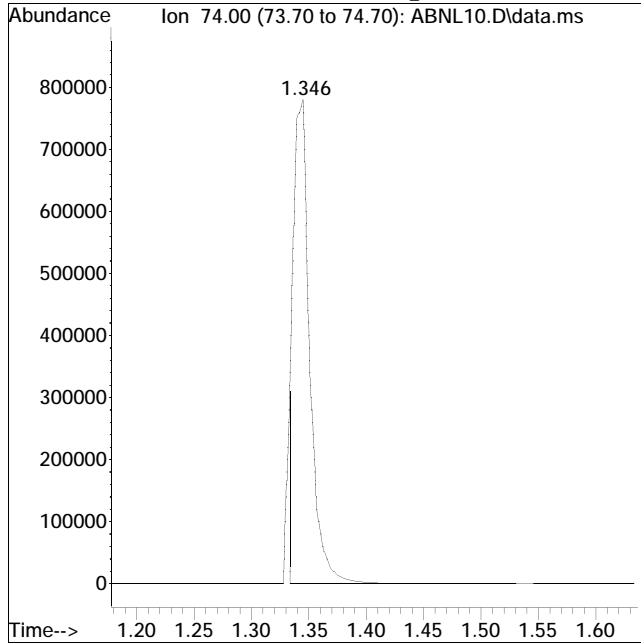
Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ABNL10.D Operator : SV109:jg
Date Inj'd : 5/31/2023 8:09 pm Instrument : SV109
Sample : IL1,32,,ABNL200 Lot# 9914 Quant Date : 6/7/2023 1:14 pm

Compound #2: n-Nitrosodimethylamine



Original Peak Response = 740495

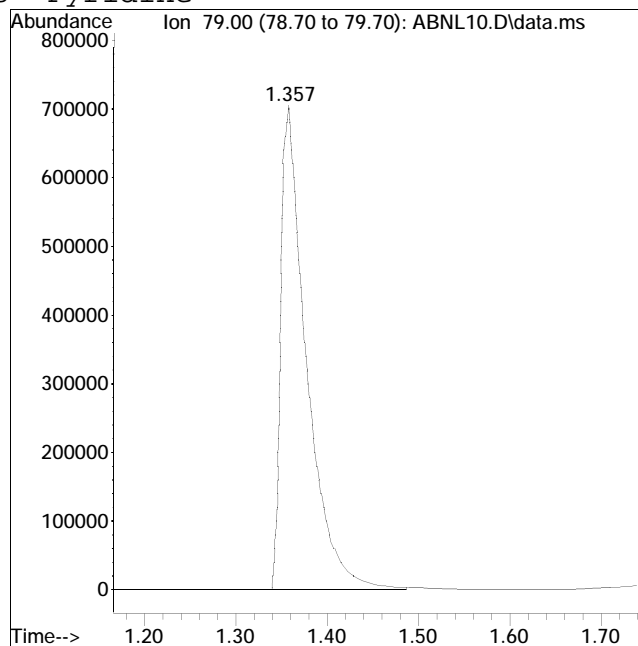
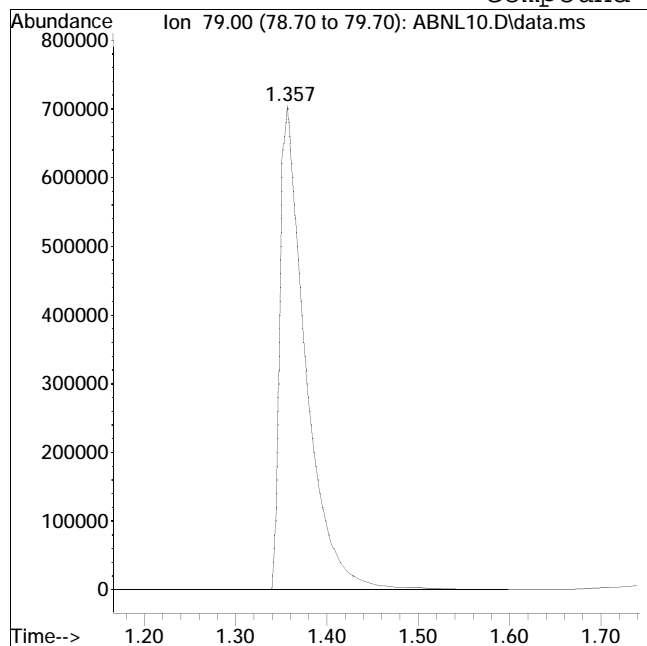
Manual Peak Response = 851605 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ABNL10.D Operator : SV109:jg
Date Inj'd : 5/31/2023 8:09 pm Instrument : SV109
Sample : IL1,32,,ABNL200 Lot# 9914 Quant Date : 6/7/2023 1:14 pm

Compound #3: Pyridine



Original Peak Response = 1385868

Manual Peak Response = 1376264 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL9.D
 Acq On : 31 May 2023 8:32 pm
 Operator : SV109:jg
 Sample : IL2,32,,ABNL150 Lot# 9942
 Misc : WG1788374,,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 07 13:17:08 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.051	152	215633	40.000	ug/ml	# 0.00
Standard Area 1 = 228780			Recovery =	94.25%		
35) IS1_Naphthalene-d8	5.298	136	855995	40.000	ug/ml	0.00
Standard Area 1 = 921334			Recovery =	92.91%		
63) IS1_Acenaphthene-d10	6.998	164	463680	40.000	ug/ml	0.00
Standard Area 1 = 502804			Recovery =	92.22%		
88) IS1_Phenanthrene-d10	8.416	188	978921	40.000	ug/ml	0.00
Standard Area 1 = 1064896			Recovery =	91.93%		
104) IS1_Chrysene-d12	11.051	240	924318	40.000	ug/ml	0.01
Standard Area 1 = 968465			Recovery =	95.44%		
113) IS1_Perylene-d12	12.921	264	930518	40.000	ug/ml	0.01
Standard Area 1 = 1019256			Recovery =	91.29%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.728	112	958110	165.810	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery =	331.62%#		
7) Phenol-d6	3.781	99	1221795	157.011	ug/ml	0.01
Spiked Amount 50.000	Range 30 - 130		Recovery =	314.02%#		
19) Nitrobenzene-d5	4.616	82	1188888	151.932	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	607.73%#		
46) 2-Fluorobiphenyl	6.380	172	2474208	144.798	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	579.19%#		
79) 2,4,6-Tribromophenol	7.763	330	403490	163.116	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery =	326.23%#		
96) 4-Terphenyl-d14	9.998	244	3616289	150.104	ug/ml	0.01
Spiked Amount 25.000	Range 40 - 140		Recovery =	600.42%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.351	74	613158	154.188	ug/ml#	93
3) Pyridine	1.369	79	1002568	156.737	ug/ml	81
5) Aniline	3.734	93	1579808	152.851	ug/ml#	61
6) 2-Chlorophenol	3.845	128	1076271	150.633	ug/ml	100
8) Phenol	3.792	94	1267737	151.452	ug/ml#	64
9) Bis(2-chloroethyl)ether	3.834	93	1011950	150.811	ug/ml#	84
10) 1,3-Dichlorobenzene	3.986	146	1146930	146.776	ug/ml	98
11) 1,4-Dichlorobenzene	4.063	146	1161963	145.242	ug/ml	97
12) 1,2-Dichlorobenzene	4.210	146	1132618	146.911	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL9.D
 Acq On : 31 May 2023 8:32 pm
 Operator : SV109:jg
 Sample : IL2,32,,ABNL150 Lot# 9942
 Misc : WG1788374,,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 07 13:17:08 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.239	79	941902	157.800	ug/ml	93
14) Bis(2-chloroisopropyl)...	4.369	45	1266184	142.783	ug/ml#	71
15) 2-Methylphenol	4.381	108	934704	151.492	ug/ml	99
16) Hexachloroethane	4.534	117	501700	147.799	ug/ml	99
17) n-Nitrosodi-n-propylamine	4.516	70	821310	150.311	ug/ml	96
18) 3-Methylphenol/4-Methy...	4.551	108	991802	153.231	ug/ml	100
20) Nitrobenzene	4.633	77	1171218	152.099	ug/ml	96
21) Isophorone	4.892	82	2194775	147.630	ug/ml	97
22) 2-Nitrophenol	4.951	139	590661	153.922	ug/ml#	95
23) 2,4-Dimethylphenol	5.057	107	1104468	154.339	ug/ml	95
24) Bis(2-chloroethoxy)met...	5.133	93	1324295	146.207	ug/ml#	96
25) 2,4-Dichlorophenol	5.204	162	948709	152.259	ug/ml	99
26) 1,2,4-Trichlorobenzene	5.263	180	1031970	146.261	ug/ml	100
36) Naphthalene	5.322	128	3137318	146.828	ug/ml	100
37) Benzoic Acid	5.292	105	851047	142.602	ug/ml	96
38) 4-Chloroaniline	5.410	65	415423	150.475	ug/ml	95
39) Hexachlorobutadiene	5.475	225	659829	148.643	ug/ml	99
40) p-Chloro-m-cresol	5.928	107	1027088	154.120	ug/ml	96
41) 2-Methylnaphthalene	5.998	142	2140921	150.798	ug/ml	97
42) 1-Methylnaphthalene	6.092	115	790981	145.804	ug/ml	82
43) Hexachlorocyclopentadiene	6.169	237	673246	146.498	ug/ml	100
44) 2,4,6-Trichlorophenol	6.304	196	731831	157.497	ug/ml	99
45) 2,4,5-Trichlorophenol	6.333	196	796421	154.680	ug/ml	99
47) 2-Chloronaphthalene	6.463	162	2122484	144.638	ug/ml	99
48) 2-Nitroaniline	6.598	138	742364	150.433	ug/ml	97
49) 1,4-Dinitrobenzene	6.751	168	352128	157.650	ug/ml	98
50) 1,3-Dinitrobenzene	6.833	168	396375	154.872	ug/ml	88
51) Dimethyl phthalate	6.822	163	2615928	142.284	ug/ml	100
52) Acenaphthylene	6.857	152	3379891	143.940	ug/ml	99
53) 2,6-Dinitrotoluene	6.857	165	585015	148.850	ug/ml#	54
54) 1,2-Dinitrobenzene	6.904	168	246090	145.878	ug/ml#	23
64) 3-Nitroaniline	7.004	138	661249	151.072	ug/ml	93
65) Acenaphthene	7.033	154	2033923	147.638	ug/ml	100
66) 2,4-Dinitrophenol	7.122	184	330490	150.364	ug/ml	96
67) Dibenzofuran	7.198	168	3130733	146.200	ug/ml	96
68) 2,4-Dinitrotoluene	7.245	165	765304	153.483	ug/ml	91
69) 4-Nitrophenol	7.227	65	541658	167.134	ug/ml#	81
70) 2,3,5,6-Tetrachlorophenol	7.298	232	654787	159.369	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL9.D
 Acq On : 31 May 2023 8:32 pm
 Operator : SV109:jg
 Sample : IL2,32,,ABNL150 Lot# 9942
 Misc : WG1788374,,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 07 13:17:08 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	7.345	232	672441	154.741	ug/ml	99
72) Diethyl phthalate	7.498	149	2870768	144.859	ug/ml	99
73) Fluorene	7.527	166	2554016	147.437	ug/ml	98
74) 4-Chlorophenyl phenyl ...	7.551	204	1210358	144.542	ug/ml	99
75) 4-Nitroaniline	7.604	138	617909	144.168	ug/ml#	86
76) 4,6-Dinitro-o-cresol	7.645	198	396474	145.308	ug/ml	93
77) NDPA/DPA	7.686	169	2178558	146.385	ug/ml	99
78) Azobenzene	7.704	77	2550836M6	142.664	ug/ml	
80) 4-Bromophenyl phenyl e...	8.016	248	789953	152.294	ug/ml	99
81) Hexachlorobenzene	8.063	284	890490	148.775	ug/ml	97
82) Pentachlorophenol	8.269	266	477444	147.300	ug/ml	99
89) Phenanthrene	8.439	178	3877178	149.220	ug/ml	100
90) Anthracene	8.492	178	3913509	150.739	ug/ml	99
91) Carbazole	8.669	167	3694031	147.037	ug/ml	98
92) Di-n-butylphthalate	9.074	149	5104494	149.969	ug/ml	99
93) Fluoranthene	9.586	202	4597791	149.028	ug/ml#	96
94) Benzidine	9.757	184	2840240	148.109	ug/ml	98
95) Pyrene	9.798	202	4720202	147.503	ug/ml	99
97) Butyl benzyl phthalate	10.521	149	2364172	152.164	ug/ml	97
105) Benzo(a)anthracene	11.039	228	4533086	140.726	ug/ml	99
106) 3,3'-Dichlorobenzidine	11.057	252	1789792	145.407	ug/ml	99
107) Chrysene	11.086	228	4048077	135.945	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	11.221	149	3418818	141.747	ug/ml	98
109) Di-n-octylphthalate	12.086	149	6149733	144.584	ug/ml#	95
110) Benzo(b)fluoranthene	12.415	252	4404310	143.018	ug/ml	98
111) Benzo(k)fluoranthene	12.462	252	4007950	142.624	ug/ml	97
112) Benzo(a)pyrene	12.851	252	3772062	143.590	ug/ml	97
114) Indeno(1,2,3-cd)pyrene	14.439	276	3894771	158.990	ug/ml	96
115) Dibenzo(a,h)anthracene	14.492	278	4136585	156.132	ug/ml	96
116) Benzo(ghi)perylene	14.798	276	4072818	152.380	ug/ml	95

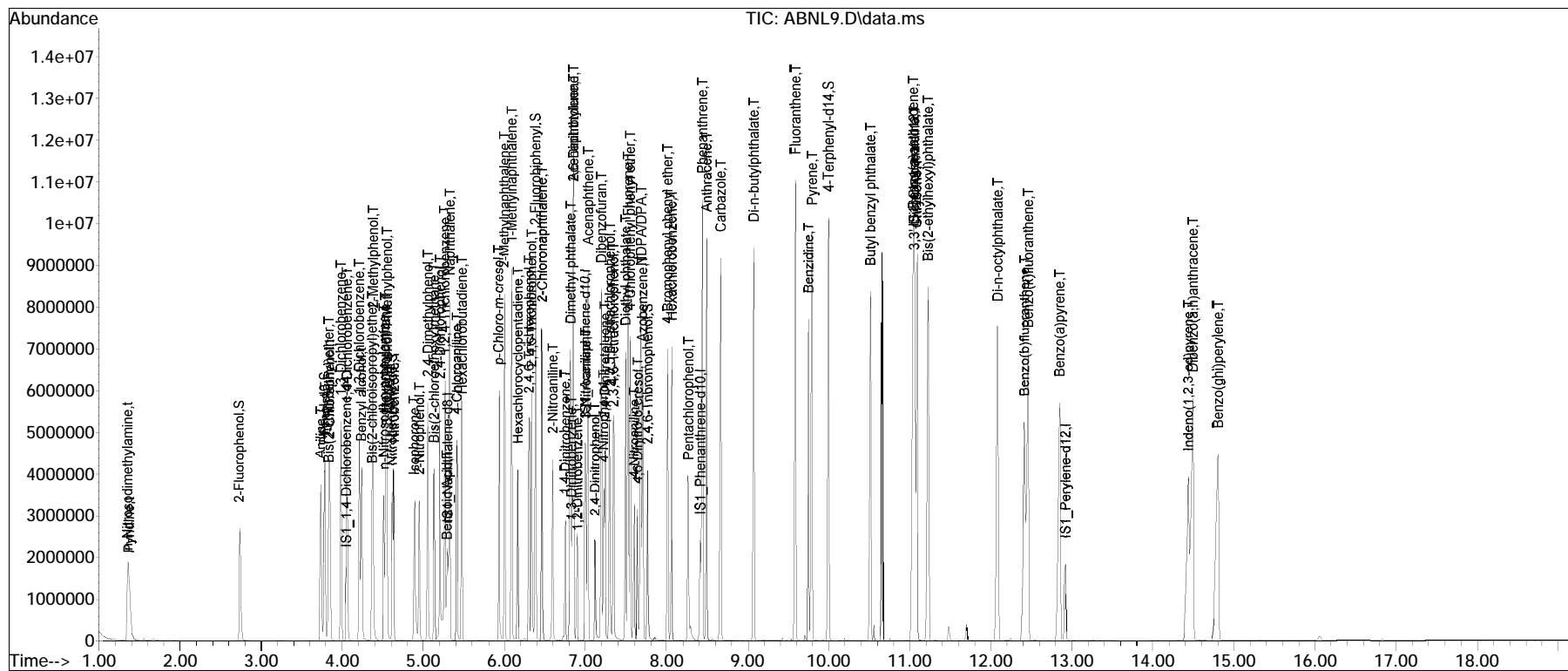
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL9.D
 Acq On : 31 May 2023 8:32 pm
 Operator : SV109:jg
 Sample : IL2,32,,ABNL150 Lot# 9942
 Misc : WG1788374,,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 07 13:17:08 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

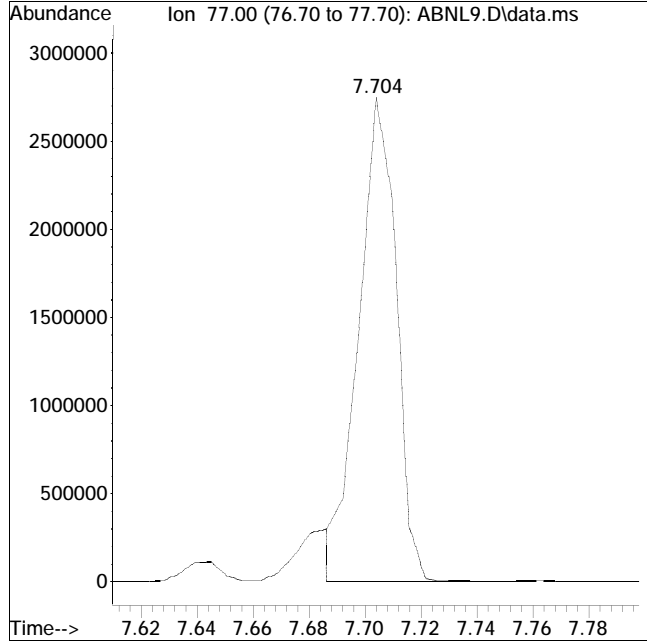
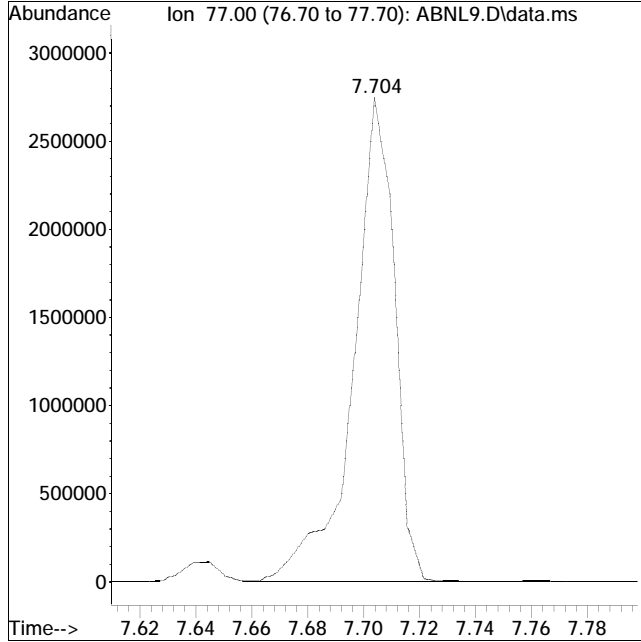
Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ABNL9.D Operator : SV109:jg
Date Inj'd : 5/31/2023 8:32 pm Instrument : SV109
Sample : IL2,32,,ABNL150 Lot# 9942 Quant Date : 6/7/2023 1:16 pm

Compound #78: Azobenzene



Original Peak Response = 2822125

Manual Peak Response = 2550836 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL8.D
 Acq On : 31 May 2023 8:55 pm
 Operator : SV109:jg
 Sample : IL3,32,,ABNL100 Lot# 9943
 Misc : WG1788374,,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 07 13:16:45 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.046	152	294011	40.000	ug/ml	# 0.00
Standard Area 1 = 228780			Recovery = 128.51%			
35) IS1_Naphthalene-d8	5.298	136	1190441	40.000	ug/ml	0.00
Standard Area 1 = 921334			Recovery = 129.21%			
63) IS1_Acenaphthene-d10	6.998	164	660321	40.000	ug/ml	0.00
Standard Area 1 = 502804			Recovery = 131.33%			
88) IS1_Phenanthrene-d10	8.416	188	1420131	40.000	ug/ml	0.00
Standard Area 1 = 1064896			Recovery = 133.36%			
104) IS1_Chrysene-d12	11.051	240	1320985	40.000	ug/ml	0.01
Standard Area 1 = 968465			Recovery = 136.40%			
113) IS1_Perylene-d12	12.922	264	1347977	40.000	ug/ml	0.01
Standard Area 1 = 1019256			Recovery = 132.25%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.728	112	843655	107.081	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 214.16%#			
7) Phenol-d6	3.775	99	1118297	105.400	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 210.80%#			
19) Nitrobenzene-d5	4.616	82	1101293	103.219	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 412.88%#			
46) 2-Fluorobiphenyl	6.381	172	2337357	98.359	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 393.44%#			
79) 2,4,6-Tribromophenol	7.763	330	387755	110.074	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 220.15%#			
96) 4-Terphenyl-d14	9.992	244	3461071	99.028	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 396.11%#			
Target Compounds						
2) n-Nitrosodimethylamine	1.346	74	543408	100.220	ug/ml#	93
3) Pyridine	1.358	79	906196	103.904	ug/ml	81
5) Aniline	3.734	93	1438788	102.097	ug/ml#	61
6) 2-Chlorophenol	3.846	128	972302	99.805	ug/ml	99
8) Phenol	3.793	94	1165767	102.143	ug/ml#	64
9) Bis(2-chloroethyl)ether	3.834	93	921288	100.698	ug/ml#	84
10) 1,3-Dichlorobenzene	3.987	146	1036099	97.246	ug/ml	98
11) 1,4-Dichlorobenzene	4.063	146	1048436	96.116	ug/ml	98
12) 1,2-Dichlorobenzene	4.210	146	1022488	97.271	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL8.D
 Acq On : 31 May 2023 8:55 pm
 Operator : SV109:jg
 Sample : IL3,32,,ABNL100 Lot# 9943
 Misc : WG1788374,,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 07 13:16:45 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.234	79	881277	108.285	ug/ml	93
14) Bis(2-chloroisopropyl)...	4.369	45	1159201	95.871	ug/ml#	70
15) 2-Methylphenol	4.381	108	855746	101.721	ug/ml	98
16) Hexachloroethane	4.534	117	447010	96.582	ug/ml	98
17) n-Nitrosodi-n-propylamine	4.510	70	764306	102.590	ug/ml	96
18) 3-Methylphenol/4-Methy...	4.551	108	918366	104.061	ug/ml	99
20) Nitrobenzene	4.634	77	1080986	102.958	ug/ml	96
21) Isophorone	4.887	82	2075595	102.395	ug/ml	97
22) 2-Nitrophenol	4.946	139	540539	103.310	ug/ml#	94
23) 2,4-Dimethylphenol	5.057	107	1018463	104.381	ug/ml	95
24) Bis(2-chloroethoxy)met...	5.134	93	1238254	100.264	ug/ml#	95
25) 2,4-Dichlorophenol	5.204	162	885354	104.212	ug/ml	99
26) 1,2,4-Trichlorobenzene	5.263	180	948224	98.565	ug/ml	99
36) Naphthalene	5.322	128	2904136	97.731	ug/ml	100
37) Benzoic Acid	5.287	105	830884	100.955	ug/ml	95
38) 4-Chloroaniline	5.410	65	390481	101.703	ug/ml	94
39) Hexachlorobutadiene	5.469	225	593806	96.188	ug/ml	99
40) p-Chloro-m-cresol	5.928	107	962882	103.894	ug/ml	96
41) 2-Methylnaphthalene	5.998	142	2011276	101.866	ug/ml	97
42) 1-Methylnaphthalene	6.093	115	750120	99.426	ug/ml	81
43) Hexachlorocyclopentadiene	6.169	237	601319	96.545	ug/ml	100
44) 2,4,6-Trichlorophenol	6.304	196	695888	107.687	ug/ml	99
45) 2,4,5-Trichlorophenol	6.334	196	752694	105.117	ug/ml	100
47) 2-Chloronaphthalene	6.463	162	2005552	98.273	ug/ml	99
48) 2-Nitroaniline	6.598	138	709750	103.418	ug/ml	97
49) 1,4-Dinitrobenzene	6.751	168	338685	109.032	ug/ml	98
50) 1,3-Dinitrobenzene	6.834	168	377163	105.964	ug/ml	86
51) Dimethyl phthalate	6.816	163	2494523	97.562	ug/ml	100
52) Acenaphthylene	6.857	152	3201873	98.050	ug/ml	100
53) 2,6-Dinitrotoluene	6.857	165	558932	102.259	ug/ml#	53
54) 1,2-Dinitrobenzene	6.898	168	237964	101.431	ug/ml#	23
64) 3-Nitroaniline	7.004	138	640255	102.716	ug/ml	94
65) Acenaphthene	7.034	154	1925207	98.131	ug/ml	100
66) 2,4-Dinitrophenol	7.122	184	318631	102.784	ug/ml	96
67) Dibenzofuran	7.198	168	2975030	97.556	ug/ml	94
68) 2,4-Dinitrotoluene	7.245	165	732219	103.117	ug/ml	92
69) 4-Nitrophenol	7.228	65	520052	112.681	ug/ml#	80
70) 2,3,5,6-Tetrachlorophenol	7.298	232	624200	106.682	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL8.D
 Acq On : 31 May 2023 8:55 pm
 Operator : SV109:jg
 Sample : IL3,32,,ABNL100 Lot# 9943
 Misc : WG1788374,,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 07 13:16:45 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	7.345	232	645909	104.373	ug/ml	99
72) Diethyl phthalate	7.492	149	2760889	97.827	ug/ml	99
73) Fluorene	7.528	166	2430778	98.535	ug/ml	98
74) 4-Chlorophenyl phenyl ...	7.551	204	1147626	96.237	ug/ml	98
75) 4-Nitroaniline	7.604	138	600562	98.393	ug/ml#	86
76) 4,6-Dinitro-o-cresol	7.645	198	383994	99.622	ug/ml	94
77) NDPA/DPA	7.687	169	2087034	98.474	ug/ml	99
78) Azobenzene	7.704	77	2408596M6	94.593	ug/ml	
80) 4-Bromophenyl phenyl e...	8.016	248	746600	101.073	ug/ml	100
81) Hexachlorobenzene	8.063	284	852992	100.071	ug/ml	98
82) Pentachlorophenol	8.269	266	450933	103.228	ug/ml	99
89) Phenanthrene	8.439	178	3674347	97.479	ug/ml	100
90) Anthracene	8.486	178	3746833	99.481	ug/ml	99
91) Carbazole	8.669	167	3576436	98.129	ug/ml	99
92) Di-n-butylphthalate	9.075	149	4933245	99.908	ug/ml	99
93) Fluoranthene	9.586	202	4480789	100.113	ug/ml#	96
94) Benzidine	9.757	184	2657850	95.538	ug/ml	98
95) Pyrene	9.792	202	4481952	96.545	ug/ml	99
97) Butyl benzyl phthalate	10.516	149	2296234	101.875	ug/ml	98
105) Benzo(a)anthracene	11.039	228	4326865	93.989	ug/ml	99
106) 3,3'-Dichlorobenzidine	11.057	252	1710534	97.238	ug/ml	99
107) Chrysene	11.086	228	3821602	89.802	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	11.222	149	3295990	95.620	ug/ml	98
109) Di-n-octylphthalate	12.080	149	5922936	97.437	ug/ml	95
110) Benzo(b)fluoranthene	12.416	252	4281847	97.290	ug/ml	98
111) Benzo(k)fluoranthene	12.457	252	3743929	93.223	ug/ml	97
112) Benzo(a)pyrene	12.851	252	3593400	95.714	ug/ml	97
114) Indeno(1,2,3-cd)pyrene	14.439	276	3693928	104.092	ug/ml	95
115) Dibenzo(a,h)anthracene	14.492	278	3926493	102.305	ug/ml	96
116) Benzo(ghi)perylene	14.798	276	3872784	100.023	ug/ml	95

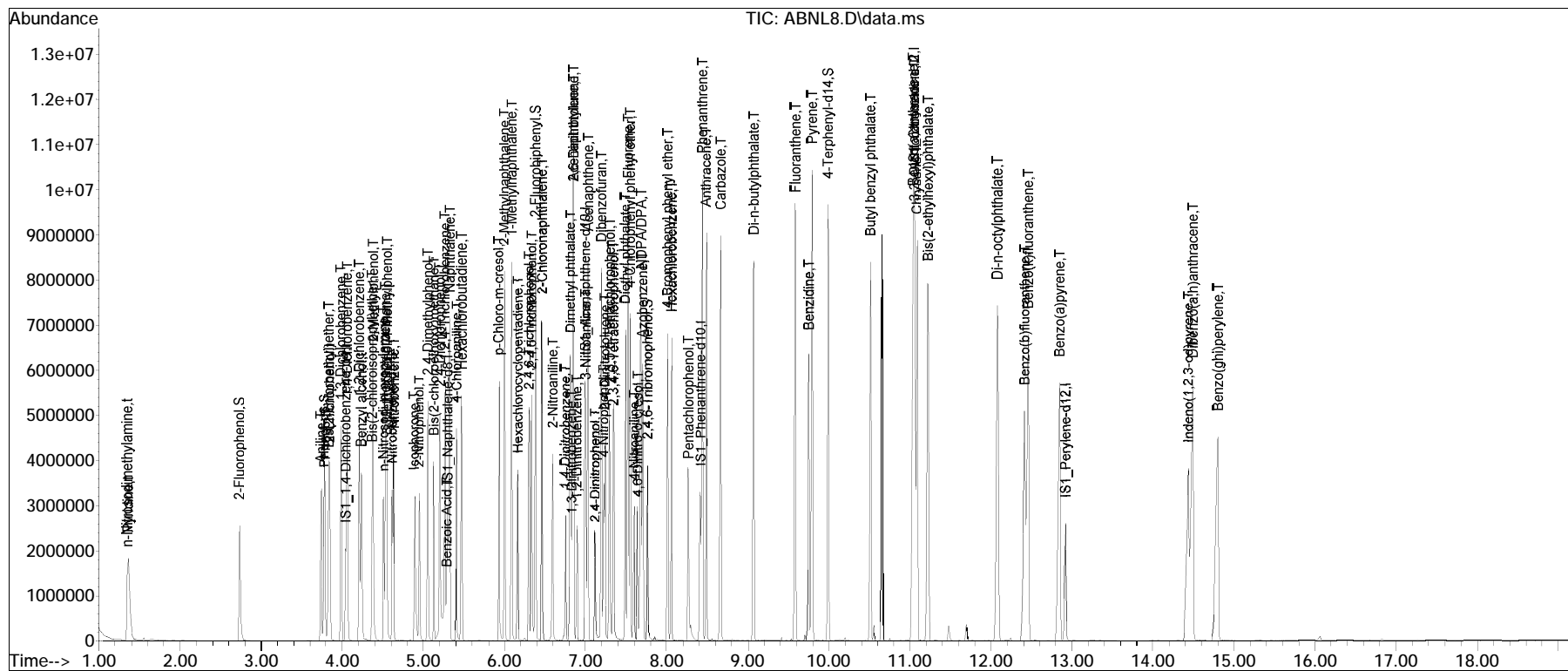
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL8.D
 Acq On : 31 May 2023 8:55 pm
 Operator : SV109:jg
 Sample : IL3,32,,ABNL100 Lot# 9943
 Misc : WG1788374,,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 07 13:16:45 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

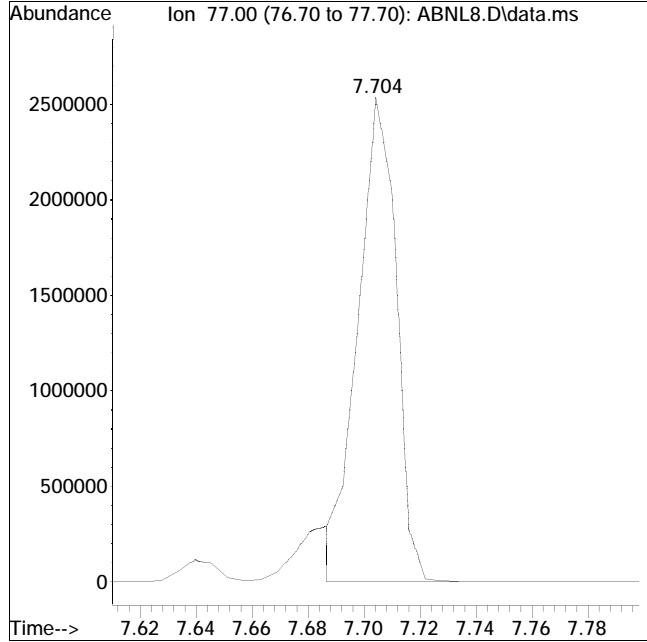
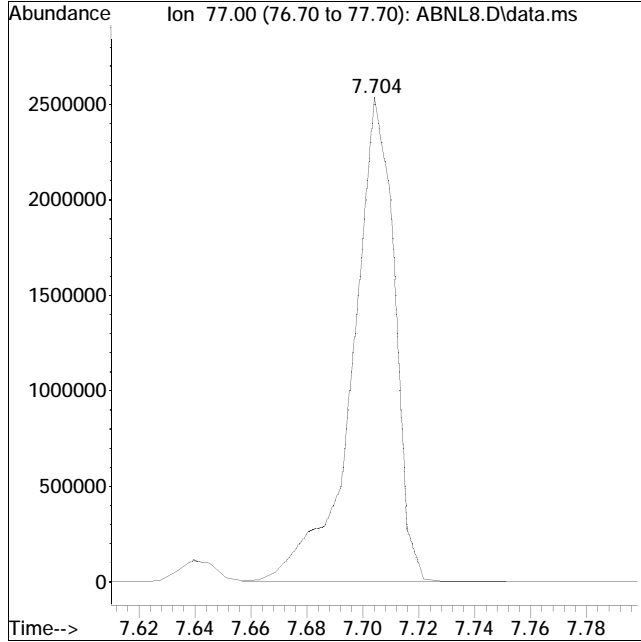
Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ABNL8.D Operator : SV109:jg
Date Inj'd : 5/31/2023 8:55 pm Instrument : SV109
Sample : IL3,32,,ABNL100 Lot# 9943 Quant Date : 6/7/2023 1:16 pm

Compound #78: Azobenzene



Original Peak Response = 2675230

Manual Peak Response = 2408596 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL7.D
 Acq On : 31 May 2023 9:19 pm
 Operator : SV109:jg
 Sample : IL4,32,,ABNL50 Lot# 9944
 Misc : WG1788374,,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 13:16:24 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.046	152	228780	40.000	ug/ml	0.00
Standard Area 1 = 228780			Recovery = 100.00%			
35) IS1_Naphthalene-d8	5.298	136	921334	40.000	ug/ml	0.00
Standard Area 1 = 921334			Recovery = 100.00%			
63) IS1_Acenaphthene-d10	6.992	164	502804	40.000	ug/ml	0.00
Standard Area 1 = 502804			Recovery = 100.00%			
88) IS1_Phenanthrene-d10	8.410	188	1064896	40.000	ug/ml	0.00
Standard Area 1 = 1064896			Recovery = 100.00%			
104) IS1_Chrysene-d12	11.039	240	968465	40.000	ug/ml	0.00
Standard Area 1 = 968465			Recovery = 100.00%			
113) IS1_Perylene-d12	12.910	264	1019256	40.000	ug/ml	0.00
Standard Area 1 = 1019256			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.734	112	335469	54.720	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 109.44%			
7) Phenol-d6	3.769	99	442846	53.639	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 107.28%			
19) Nitrobenzene-d5	4.610	82	443726	53.446	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 213.78%#			
46) 2-Fluorobiphenyl	6.375	172	927408	50.425	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 201.70%#			
79) 2,4,6-Tribromophenol	7.757	330	145752	54.337	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 108.67%			
96) 4-Terphenyl-d14	9.986	244	1338521	51.073	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 204.29%#			
Target Compounds						
2) n-Nitrosodimethylamine	1.352	74	225404	53.424	ug/ml#	93
3) Pyridine	1.369	79	347002	51.131	ug/ml	81
5) Aniline	3.728	93	571471	52.114	ug/ml#	61
6) 2-Chlorophenol	3.846	128	395992	52.238	ug/ml	99
8) Phenol	3.781	94	461538	51.970	ug/ml#	64
9) Bis(2-chloroethyl)ether	3.828	93	380034	53.382	ug/ml#	84
10) 1,3-Dichlorobenzene	3.987	146	420478	50.718	ug/ml	97
11) 1,4-Dichlorobenzene	4.063	146	428672	50.504	ug/ml	97
12) 1,2-Dichlorobenzene	4.210	146	417397	51.029	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL7.D
 Acq On : 31 May 2023 9:19 pm
 Operator : SV109:jg
 Sample : IL4,32,,ABNL50 Lot# 9944
 Misc : WG1788374,,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 13:16:24 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.228	79	347948	54.943	ug/ml	93
14) Bis(2-chloroisopropyl)...	4.369	45	497157	52.841	ug/ml#	75
15) 2-Methylphenol	4.375	108	345117	52.720	ug/ml	99
16) Hexachloroethane	4.534	117	184383	51.197	ug/ml	98
17) n-Nitrosodi-n-propylamine	4.498	70	306383	52.850	ug/ml	95
18) 3-Methylphenol/4-Methy...	4.540	108	365185	53.178	ug/ml	99
20) Nitrobenzene	4.628	77	441971	54.098	ug/ml	95
21) Isophorone	4.875	82	820893	52.044	ug/ml	97
22) 2-Nitrophenol	4.945	139	214493	52.683	ug/ml#	94
23) 2,4-Dimethylphenol	5.051	107	402394	52.999	ug/ml	94
24) Bis(2-chloroethoxy)met...	5.128	93	497746	51.795	ug/ml#	95
25) 2,4-Dichlorophenol	5.198	162	352086	53.259	ug/ml	99
26) 1,2,4-Trichlorobenzene	5.257	180	382497	51.096	ug/ml	99
36) Naphthalene	5.316	128	1170560	50.898	ug/ml	100
37) Benzoic Acid	5.234	105	302350	48.969	ug/ml	96
38) 4-Chloroaniline	5.404	65	156083	52.527	ug/ml	93
39) Hexachlorobutadiene	5.469	225	243642	50.994	ug/ml	99
40) p-Chloro-m-cresol	5.928	107	378789	52.809	ug/ml	96
41) 2-Methylnaphthalene	5.998	142	793613	51.935	ug/ml	97
42) 1-Methylnaphthalene	6.087	115	299882	51.358	ug/ml	80
43) Hexachlorocyclopentadiene	6.163	237	208446	47.037	ug/ml	100
44) 2,4,6-Trichlorophenol	6.298	196	263238	52.634	ug/ml	99
45) 2,4,5-Trichlorophenol	6.334	196	294230	53.093	ug/ml	99
47) 2-Chloronaphthalene	6.463	162	805091	50.973	ug/ml	100
48) 2-Nitroaniline	6.587	138	279700	52.659	ug/ml	97
49) 1,4-Dinitrobenzene	6.739	168	128177	53.316	ug/ml	98
50) 1,3-Dinitrobenzene	6.816	168	143204	51.985	ug/ml	93
51) Dimethyl phthalate	6.804	163	998075	50.437	ug/ml	100
52) Acenaphthylene	6.851	152	1284059	50.806	ug/ml	99
53) 2,6-Dinitrotoluene	6.845	165	214117	50.616	ug/ml#	70
54) 1,2-Dinitrobenzene	6.887	168	93204	51.332	ug/ml#	23
64) 3-Nitroaniline	6.992	138	250299	52.735	ug/ml#	94
65) Acenaphthene	7.022	154	758742	50.790	ug/ml	99
66) 2,4-Dinitrophenol	7.110	184	112727	49.391	ug/ml	96
67) Dibenzofuran	7.192	168	1175340	50.615	ug/ml	92
68) 2,4-Dinitrotoluene	7.234	165	289749	53.588	ug/ml	91
69) 4-Nitrophenol	7.216	65	192754	54.848	ug/ml#	76
70) 2,3,5,6-Tetrachlorophenol	7.298	232	237319	53.267	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL7.D
 Acq On : 31 May 2023 9:19 pm
 Operator : SV109:jg
 Sample : IL4,32,,ABNL50 Lot# 9944
 Misc : WG1788374,,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 13:16:24 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	7.339	232	243762	51.729	ug/ml	99
72) Diethyl phthalate	7.487	149	1099644	51.170	ug/ml	99
73) Fluorene	7.522	166	961698	51.197	ug/ml	98
74) 4-Chlorophenyl phenyl ...	7.545	204	467278	51.461	ug/ml	99
75) 4-Nitroaniline	7.581	138	235445	50.659	ug/ml#	85
76) 4,6-Dinitro-o-cresol	7.628	198	141273	49.423	ug/ml	93
77) NDPA/DPA	7.675	169	827731	51.290	ug/ml	99
78) Azobenzene	7.698	77	988513	50.984	ug/ml	97
80) 4-Bromophenyl phenyl e...	8.010	248	289755	51.515	ug/ml	100
81) Hexachlorobenzene	8.057	284	328122	50.554	ug/ml	98
82) Pentachlorophenol	8.263	266	157677	51.216	ug/ml	99
89) Phenanthrene	8.434	178	1443501	51.071	ug/ml	100
90) Anthracene	8.481	178	1460529	51.714	ug/ml	100
91) Carbazole	8.663	167	1397548	51.137	ug/ml	99
92) Di-n-butylphthalate	9.069	149	1936577	52.303	ug/ml	99
93) Fluoranthene	9.575	202	1726664	51.448	ug/ml#	96
94) Benzidine	9.745	184	1001785	48.022	ug/ml	98
95) Pyrene	9.786	202	1773799	50.955	ug/ml	99
97) Butyl benzyl phthalate	10.510	149	888324	52.559	ug/ml	98
105) Benzo(a)anthracene	11.027	228	1667618	49.410	ug/ml	100
106) 3,3'-Dichlorobenzidine	11.045	252	656110	50.874	ug/ml	99
107) Chrysene	11.069	228	1540509	49.376	ug/ml	100
108) Bis(2-ethylhexyl)phtha...	11.216	149	1308658	51.785	ug/ml	98
109) Di-n-octylphthalate	12.074	149	2312956	51.900	ug/ml	95
110) Benzo(b)fluoranthene	12.398	252	1624490	50.346	ug/ml	98
111) Benzo(k)fluoranthene	12.439	252	1511068	51.321	ug/ml	98
112) Benzo(a)pyrene	12.833	252	1397256	50.764	ug/ml	97
114) Indeno(1,2,3-cd)pyrene	14.415	276	1369593	51.041	ug/ml	96
115) Dibenzo(a,h)anthracene	14.463	278	1533746	52.850	ug/ml	96
116) Benzo(ghi)perylene	14.768	276	1524456	52.070	ug/ml	95

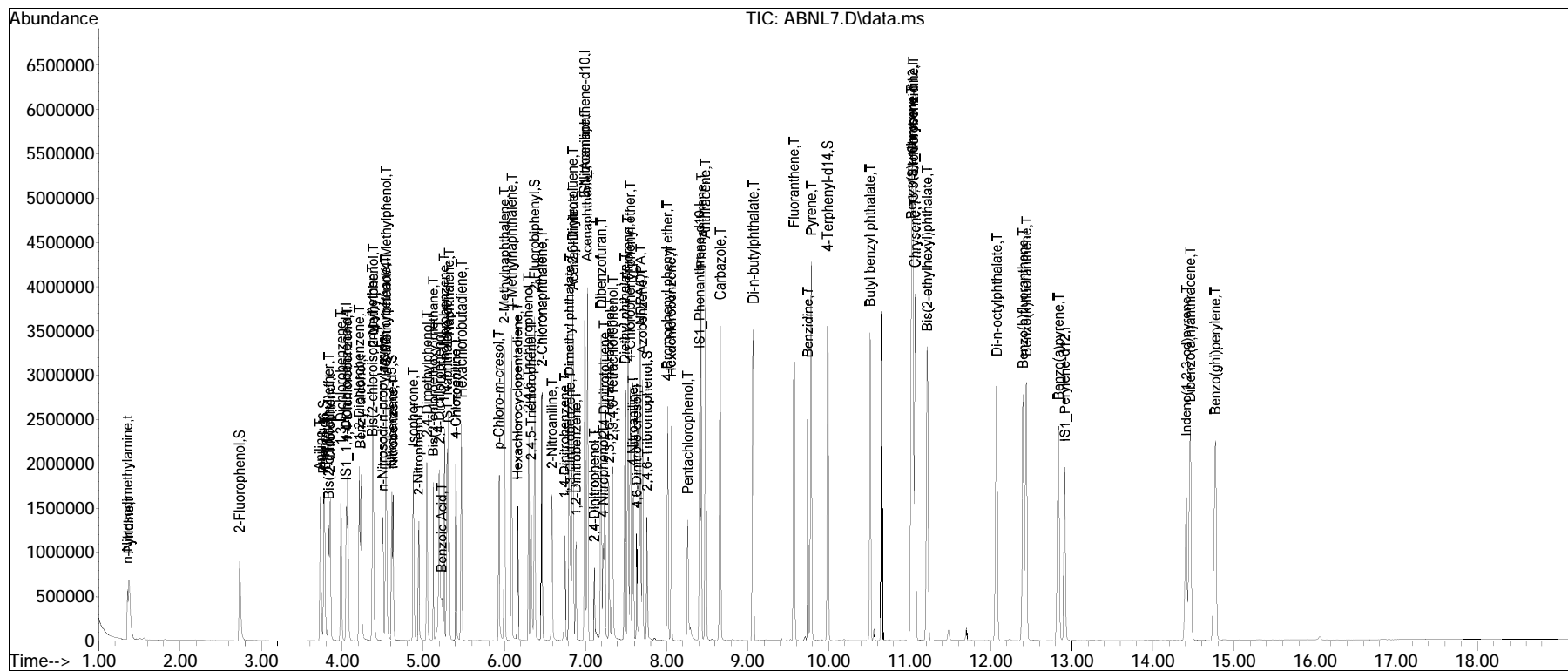
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL7.D
 Acq On : 31 May 2023 9:19 pm
 Operator : SV109:jg
 Sample : IL4,32,,ABNL50 Lot# 9944
 Misc : WG1788374,,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 13:16:24 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ABNL7.D Operator : SV109:jg
Date Inj'd : 5/31/2023 9:19 pm Instrument : SV109
Sample : IL4,32,,ABNL50 Lot# 9944 Quant Date : 6/7/2023 1:16 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL6.D
 Acq On : 31 May 2023 9:42 pm
 Operator : SV109:jg
 Sample : IL5,32,,ABNL20 Lot# 9945
 Misc : WG1788374,,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 07 13:15:56 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.051	152	228319	40.000	ug/ml	0.00
Standard Area 1 = 228780			Recovery =	99.80%		
35) IS1_Naphthalene-d8	5.292	136	913344	40.000	ug/ml	0.00
Standard Area 1 = 921334			Recovery =	99.13%		
63) IS1_Acenaphthene-d10	6.992	164	503150	40.000	ug/ml	0.00
Standard Area 1 = 502804			Recovery =	100.07%		
88) IS1_Phenanthrene-d10	8.410	188	1094233	40.000	ug/ml	0.00
Standard Area 1 = 1064896			Recovery =	102.75%		
104) IS1_Chrysene-d12	11.033	240	968445	40.000	ug/ml	0.00
Standard Area 1 = 968465			Recovery =	100.00%		
113) IS1_Perylene-d12	12.910	264	1058634	40.000	ug/ml	0.00
Standard Area 1 = 1019256			Recovery =	103.86%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.740	112	122003	19.941	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery =	39.88%		
7) Phenol-d6	3.769	99	161946	19.655	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery =	39.31%		
19) Nitrobenzene-d5	4.610	82	163102	19.685	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	78.74%		
46) 2-Fluorobiphenyl	6.375	172	348867	19.135	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	76.54%		
79) 2,4,6-Tribromophenol	7.751	330	53491	19.928	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery =	39.86%		
96) 4-Terphenyl-d14	9.986	244	505550	18.773	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	75.09%		
Target Compounds						
2) n-Nitrosodimethylamine	1.357	74	80299	19.070	ug/ml#	94
3) Pyridine	1.381	79	132478	19.560	ug/ml#	81
5) Aniline	3.728	93	205440	18.773	ug/ml#	61
6) 2-Chlorophenol	3.845	128	146807	19.405	ug/ml	99
8) Phenol	3.781	94	166752	18.814	ug/ml#	65
9) Bis(2-chloroethyl)ether	3.828	93	137583	19.365	ug/ml#	83
10) 1,3-Dichlorobenzene	3.987	146	157779	19.070	ug/ml	97
11) 1,4-Dichlorobenzene	4.063	146	162144	19.141	ug/ml	97
12) 1,2-Dichlorobenzene	4.216	146	156712	19.198	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL6.D
 Acq On : 31 May 2023 9:42 pm
 Operator : SV109:jg
 Sample : IL5,32,,ABNL20 Lot# 9945
 Misc : WG1788374,,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 07 13:15:56 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.228	79	125578	19.870	ug/ml	93
14) Bis(2-chloroisopropyl)...	4.369	45	187601	19.980	ug/ml#	76
15) 2-Methylphenol	4.375	108	127028	19.444	ug/ml	99
16) Hexachloroethane	4.534	117	69333	19.290	ug/ml	98
17) n-Nitrosodi-n-propylamine	4.498	70	113318	19.586	ug/ml	95
18) 3-Methylphenol/4-Methy...	4.540	108	134952	19.691	ug/ml	100
20) Nitrobenzene	4.628	77	162723	19.958	ug/ml	95
21) Isophorone	4.875	82	301647	19.163	ug/ml	98
22) 2-Nitrophenol	4.945	139	76792	18.900	ug/ml#	93
23) 2,4-Dimethylphenol	5.045	107	145693	19.228	ug/ml	95
24) Bis(2-chloroethoxy)met...	5.128	93	187099	19.509	ug/ml#	95
25) 2,4-Dichlorophenol	5.198	162	128813	19.525	ug/ml	99
26) 1,2,4-Trichlorobenzene	5.257	180	141628	18.958	ug/ml	99
36) Naphthalene	5.316	128	439444	19.275	ug/ml	100
37) Benzoic Acid	5.192	105	100608	18.321	ug/ml	94
38) 4-Chloroaniline	5.404	65	58659	19.913	ug/ml	94
39) Hexachlorobutadiene	5.469	225	90907	19.193	ug/ml	98
40) p-Chloro-m-cresol	5.928	107	139810	19.662	ug/ml	95
41) 2-Methylnaphthalene	5.998	142	293137	19.351	ug/ml	97
42) 1-Methylnaphthalene	6.087	115	111176	19.207	ug/ml	80
43) Hexachlorocyclopentadiene	6.163	237	59447	18.428	ug/ml	99
44) 2,4,6-Trichlorophenol	6.298	196	96112	19.385	ug/ml	99
45) 2,4,5-Trichlorophenol	6.334	196	105213	19.151	ug/ml	99
47) 2-Chloronaphthalene	6.457	162	301363	19.247	ug/ml	100
48) 2-Nitroaniline	6.586	138	102489	19.464	ug/ml	97
49) 1,4-Dinitrobenzene	6.739	168	45155	18.947	ug/ml	99
50) 1,3-Dinitrobenzene	6.816	168	51309	18.789	ug/ml	94
51) Dimethyl phthalate	6.792	163	375364	19.135	ug/ml	100
52) Acenaphthylene	6.845	152	476170	19.005	ug/ml	99
53) 2,6-Dinitrotoluene	6.839	165	80623	19.225	ug/ml#	70
54) 1,2-Dinitrobenzene	6.881	168	34520	19.178	ug/ml#	23
64) 3-Nitroaniline	6.986	138	92425	19.459	ug/ml#	89
65) Acenaphthene	7.022	154	285854	19.122	ug/ml	98
66) 2,4-Dinitrophenol	7.110	184	36275	17.955	ug/ml	96
67) Dibenzofuran	7.192	168	445240	19.161	ug/ml	98
68) 2,4-Dinitrotoluene	7.228	165	106042	19.599	ug/ml	90
69) 4-Nitrophenol	7.216	65	68556	19.494	ug/ml	87
70) 2,3,5,6-Tetrachlorophenol	7.292	232	84115	18.867	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL6.D
 Acq On : 31 May 2023 9:42 pm
 Operator : SV109:jg
 Sample : IL5,32,,ABNL20 Lot# 9945
 Misc : WG1788374,,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 07 13:15:56 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	7.333	232	89808	19.045	ug/ml	100
72) Diethyl phthalate	7.481	149	415348	19.314	ug/ml	99
73) Fluorene	7.516	166	361012	19.205	ug/ml	99
74) 4-Chlorophenyl phenyl ...	7.545	204	173225	19.064	ug/ml	99
75) 4-Nitroaniline	7.569	138	90832	19.530	ug/ml#	83
76) 4,6-Dinitro-o-cresol	7.622	198	48485	18.590	ug/ml	89
77) NDPA/DPA	7.669	169	310021	19.197	ug/ml	98
78) Azobenzene	7.692	77	373347	19.243	ug/ml	97
80) 4-Bromophenyl phenyl e...	8.010	248	107685	19.132	ug/ml	99
81) Hexachlorobenzene	8.051	284	122405	18.846	ug/ml	97
82) Pentachlorophenol	8.263	266	51827	18.425	ug/ml	99
89) Phenanthrene	8.428	178	543103	18.700	ug/ml	99
90) Anthracene	8.480	178	548036	18.885	ug/ml	99
91) Carbazole	8.657	167	534759	19.042	ug/ml	100
92) Di-n-butylphthalate	9.063	149	738598	19.413	ug/ml	99
93) Fluoranthene	9.575	202	646468	18.746	ug/ml#	96
94) Benzidine	9.745	184	393675	18.365	ug/ml	98
95) Pyrene	9.780	202	671992	18.786	ug/ml	99
97) Butyl benzyl phthalate	10.510	149	333028	19.176	ug/ml	97
105) Benzo(a)anthracene	11.021	228	650911	19.286	ug/ml	100
106) 3,3'-Dichlorobenzidine	11.039	252	250679	19.438	ug/ml	100
107) Chrysene	11.063	228	591382	18.955	ug/ml	100
108) Bis(2-ethylhexyl)phtha...	11.210	149	504136	19.950	ug/ml	97
109) Di-n-octylphthalate	12.068	149	874937	19.633	ug/ml#	94
110) Benzo(b)fluoranthene	12.392	252	622921	19.306	ug/ml	98
111) Benzo(k)fluoranthene	12.427	252	577883	19.627	ug/ml	98
112) Benzo(a)pyrene	12.821	252	532656	19.353	ug/ml	97
114) Indeno(1,2,3-cd)pyrene	14.404	276	512790	18.399	ug/ml	96
115) Dibenzo(a,h)anthracene	14.457	278	562806	18.672	ug/ml	97
116) Benzo(ghi)perylene	14.751	276	583176	19.178	ug/ml	96

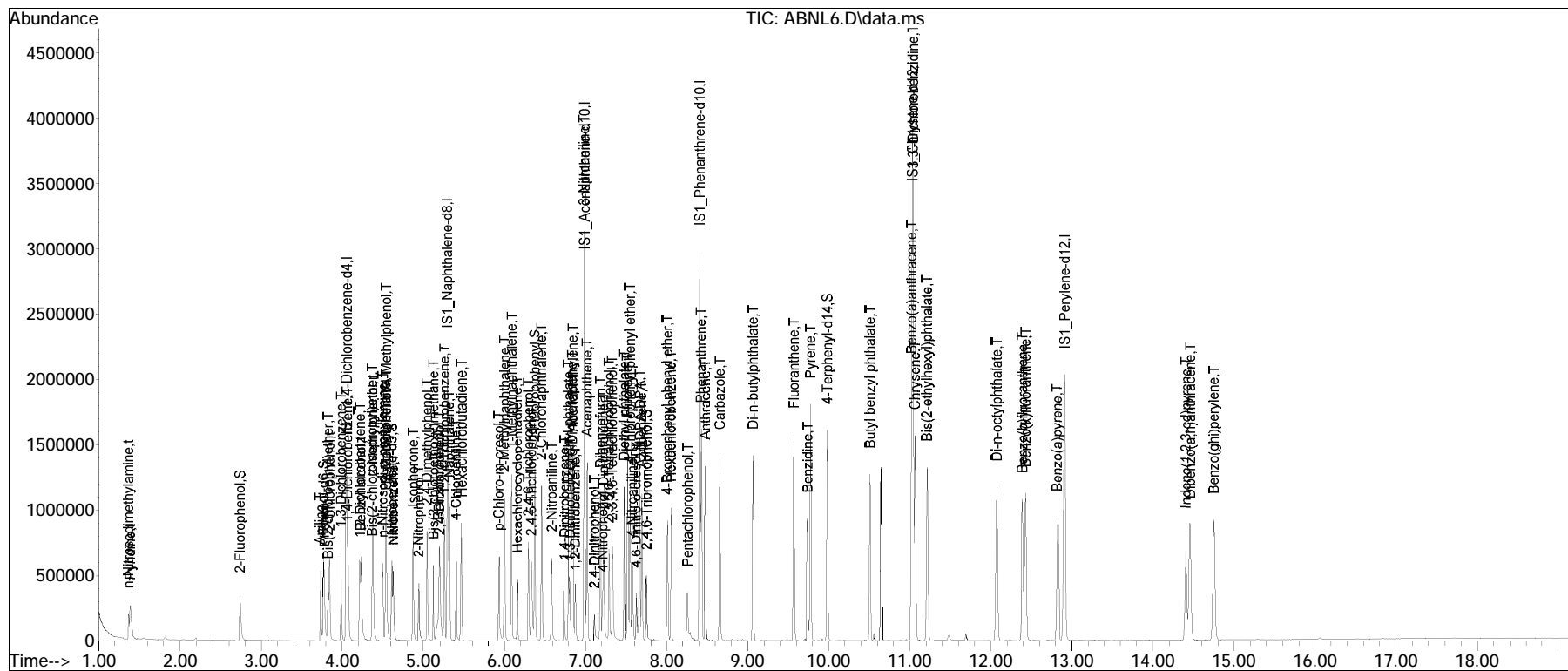
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL6.D
 Acq On : 31 May 2023 9:42 pm
 Operator : SV109:jg
 Sample : IL5,32,,ABNL20 Lot# 9945
 Misc : WG1788374,,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 07 13:15:56 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ABNL6.D Operator : SV109:jg
Date Inj'd : 5/31/2023 9:42 pm Instrument : SV109
Sample : IL5,32,,ABNL20 Lot# 9945 Quant Date : 6/7/2023 1:15 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL5.D
 Acq On : 31 May 2023 10:05 pm
 Operator : SV109:jg
 Sample : IL6,32,,ABNL10 Lot# 9946
 Misc : WG1788374,,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 13:15:45 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.051	152	245931	40.000	ug/ml	0.00
Standard Area 1 = 228780			Recovery = 107.50%			
35) IS1_Naphthalene-d8	5.292	136	996120	40.000	ug/ml	0.00
Standard Area 1 = 921334			Recovery = 108.12%			
63) IS1_Acenaphthene-d10	6.992	164	553903	40.000	ug/ml	0.00
Standard Area 1 = 502804			Recovery = 110.16%			
88) IS1_Phenanthrene-d10	8.410	188	1209797	40.000	ug/ml	0.00
Standard Area 1 = 1064896			Recovery = 113.61%			
104) IS1_Chrysene-d12	11.033	240	1094287	40.000	ug/ml	0.00
Standard Area 1 = 968465			Recovery = 112.99%			
113) IS1_Perylene-d12	12.910	264	1193537	40.000	ug/ml	0.00
Standard Area 1 = 1019256			Recovery = 117.10%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.746	112	64386	9.770	ug/ml	0.01
Spiked Amount 50.000	Range 30 - 130		Recovery = 19.54%#			
7) Phenol-d6	3.769	99	85490	9.633	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 19.27%#			
19) Nitrobenzene-d5	4.610	82	85361	9.565	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 38.26%#			
46) 2-Fluorobiphenyl	6.375	172	192490	9.680	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 38.72%#			
79) 2,4,6-Tribromophenol	7.757	330	28017	9.481	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 18.96%#			
96) 4-Terphenyl-d14	9.986	244	277037	9.305	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 37.22%#			
Target Compounds						
2) n-Nitrosodimethylamine	1.363	74	44571	9.827	ug/ml#	94
3) Pyridine	1.387	79	69857	9.576	ug/ml#	80
5) Aniline	3.734	93	114401	9.705	ug/ml#	59
6) 2-Chlorophenol	3.845	128	79309	9.732	ug/ml	99
8) Phenol	3.781	94	92876	9.729	ug/ml#	64
9) Bis(2-chloroethyl)ether	3.828	93	74238	9.701	ug/ml	86
10) 1,3-Dichlorobenzene	3.987	146	87129	9.776	ug/ml	96
11) 1,4-Dichlorobenzene	4.063	146	87437	9.583	ug/ml	96
12) 1,2-Dichlorobenzene	4.216	146	85069	9.675	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL5.D
 Acq On : 31 May 2023 10:05 pm
 Operator : SV109:jg
 Sample : IL6,32,,ABNL10 Lot# 9946
 Misc : WG1788374,,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 13:15:45 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.234	79	66447	9.761	ug/ml	94
14) Bis(2-chloroisopropyl)...	4.375	45	100109	9.898	ug/ml#	76
15) 2-Methylphenol	4.381	108	68130	9.682	ug/ml	98
16) Hexachloroethane	4.534	117	37649	9.725	ug/ml	98
17) n-Nitrosodi-n-propylamine	4.498	70	60762	9.750	ug/ml	94
18) 3-Methylphenol/4-Methy...	4.540	108	71892	9.739	ug/ml	99
20) Nitrobenzene	4.628	77	86012	9.794	ug/ml	96
21) Isophorone	4.875	82	162274	9.571	ug/ml	99
22) 2-Nitrophenol	4.945	139	39924	9.122	ug/ml	95
23) 2,4-Dimethylphenol	5.045	107	78310	9.595	ug/ml	95
24) Bis(2-chloroethoxy)met...	5.128	93	100304	9.710	ug/ml#	95
25) 2,4-Dichlorophenol	5.198	162	69750	9.815	ug/ml	98
26) 1,2,4-Trichlorobenzene	5.257	180	77787	9.667	ug/ml	99
36) Naphthalene	5.316	128	236092	9.495	ug/ml	99
37) Benzoic Acid	5.175	105	48655	9.702	ug/ml	96
38) 4-Chloroaniline	5.404	65	30407	9.465	ug/ml	99
39) Hexachlorobutadiene	5.469	225	48872	9.461	ug/ml	99
40) p-Chloro-m-cresol	5.928	107	73734	9.508	ug/ml	97
41) 2-Methylnaphthalene	5.998	142	157736	9.547	ug/ml	97
42) 1-Methylnaphthalene	6.087	115	59646	9.448	ug/ml	82
43) Hexachlorocyclopentadiene	6.163	237	25720	11.457	ug/ml	98
44) 2,4,6-Trichlorophenol	6.298	196	50885	9.410	ug/ml	99
45) 2,4,5-Trichlorophenol	6.339	196	57227	9.551	ug/ml	97
47) 2-Chloronaphthalene	6.457	162	164275	9.620	ug/ml	100
48) 2-Nitroaniline	6.587	138	54764	9.536	ug/ml	97
49) 1,4-Dinitrobenzene	6.739	168	23407	9.005	ug/ml	98
50) 1,3-Dinitrobenzene	6.816	168	27729	9.310	ug/ml	96
51) Dimethyl phthalate	6.792	163	206369	9.646	ug/ml	100
52) Acenaphthylene	6.845	152	264329	9.673	ug/ml	99
53) 2,6-Dinitrotoluene	6.839	165	43888	9.596	ug/ml#	57
54) 1,2-Dinitrobenzene	6.881	168	18765	9.559	ug/ml#	27
64) 3-Nitroaniline	6.986	138	50210	9.603	ug/ml#	83
65) Acenaphthene	7.022	154	157357	9.562	ug/ml	99
66) 2,4-Dinitrophenol	7.116	184	17530	9.595	ug/ml	98
67) Dibenzofuran	7.192	168	243253	9.509	ug/ml	98
68) 2,4-Dinitrotoluene	7.228	165	57866	9.715	ug/ml	88
69) 4-Nitrophenol	7.216	65	33257	8.590	ug/ml	87
70) 2,3,5,6-Tetrachlorophenol	7.298	232	44855	9.139	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL5.D
 Acq On : 31 May 2023 10:05 pm
 Operator : SV109:jg
 Sample : IL6,32,,ABNL10 Lot# 9946
 Misc : WG1788374,,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 13:15:45 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	7.339	232	49202	9.478	ug/ml	98
72) Diethyl phthalate	7.481	149	230073	9.718	ug/ml	98
73) Fluorene	7.516	166	198162	9.576	ug/ml	98
74) 4-Chlorophenyl phenyl ...	7.545	204	97317	9.729	ug/ml	99
75) 4-Nitroaniline	7.569	138	49531	9.674	ug/ml#	90
76) 4,6-Dinitro-o-cresol	7.628	198	24818	9.979	ug/ml#	87
77) NDPA/DPA	7.669	169	171257	9.633	ug/ml	98
78) Azobenzene	7.692	77	204371	9.568	ug/ml	98
80) 4-Bromophenyl phenyl e...	8.010	248	58175	9.389	ug/ml	99
81) Hexachlorobenzene	8.051	284	66575	9.311	ug/ml	96
82) Pentachlorophenol	8.263	266	25905	9.185	ug/ml	99
89) Phenanthrene	8.428	178	301626	9.393	ug/ml	99
90) Anthracene	8.480	178	304556	9.492	ug/ml	100
91) Carbazole	8.657	167	295097	9.504	ug/ml	99
92) Di-n-butylphthalate	9.063	149	404670	9.620	ug/ml	100
93) Fluoranthene	9.575	202	359293	9.423	ug/ml#	97
94) Benzidine	9.745	184	226159	9.543	ug/ml	98
95) Pyrene	9.780	202	378186	9.563	ug/ml	98
97) Butyl benzyl phthalate	10.510	149	183636	9.564	ug/ml	99
105) Benzo(a)anthracene	11.022	228	360074	9.442	ug/ml	100
106) 3,3'-Dichlorobenzidine	11.039	252	139852	9.597	ug/ml	98
107) Chrysene	11.063	228	331229	9.396	ug/ml	100
108) Bis(2-ethylhexyl)phtha...	11.210	149	280705	9.831	ug/ml	97
109) Di-n-octylphthalate	12.068	149	475327	9.439	ug/ml#	94
110) Benzo(b)fluoranthene	12.392	252	348172	9.550	ug/ml	97
111) Benzo(k)fluoranthene	12.427	252	315808	9.493	ug/ml	99
112) Benzo(a)pyrene	12.827	252	294567	9.472	ug/ml	97
114) Indeno(1,2,3-cd)pyrene	14.404	276	284097	9.042	ug/ml	96
115) Dibenzo(a,h)anthracene	14.451	278	309220	9.099	ug/ml	97
116) Benzo(ghi)perylene	14.751	276	320862	9.359	ug/ml	96

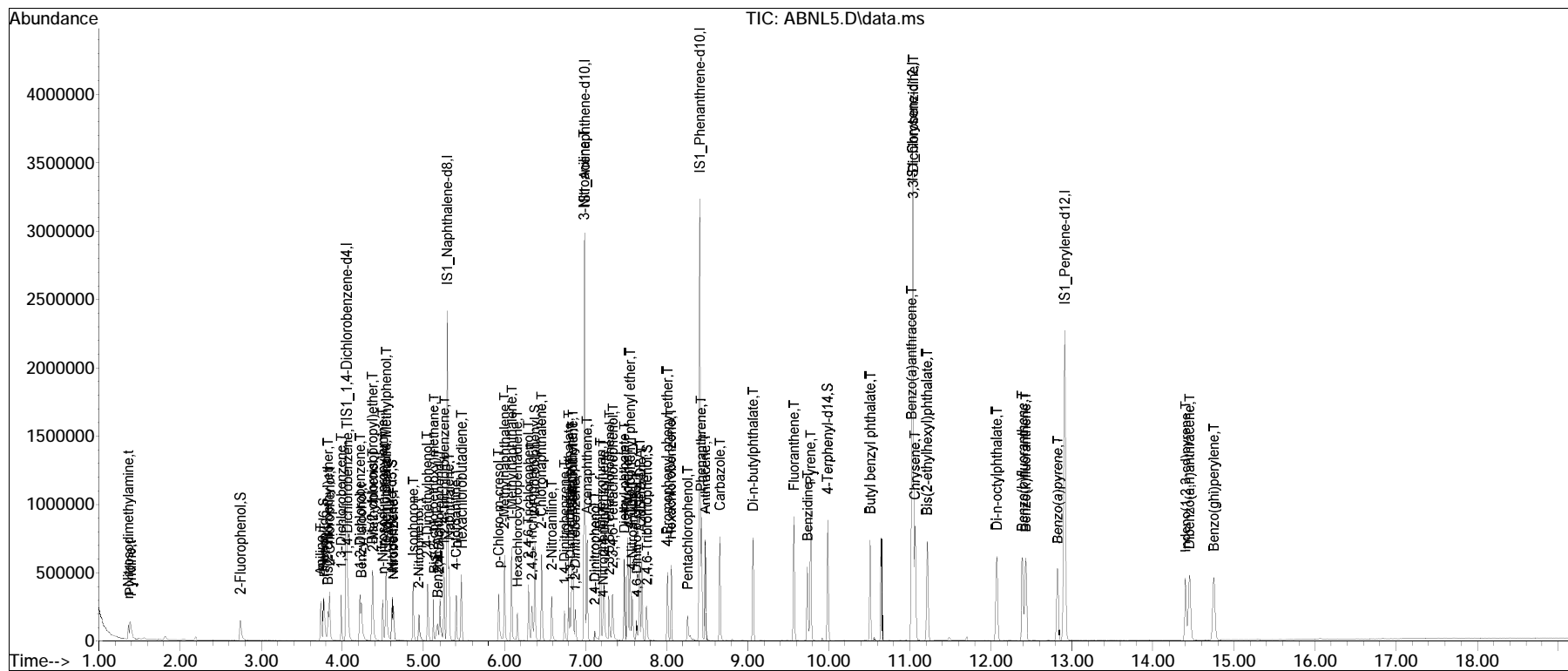
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL5.D
 Acq On : 31 May 2023 10:05 pm
 Operator : SV109:jg
 Sample : IL6,32,,ABNL10 Lot# 9946
 Misc : WG1788374,,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 13:15:45 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ABNL5.D Operator : SV109:jg
Date Inj'd : 5/31/2023 10:05 pm Instrument : SV109
Sample : IL6,32,,ABNL10 Lot# 9946 Quant Date : 6/7/2023 1:15 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL4.D
 Acq On : 31 May 2023 10:28 pm
 Operator : SV109:jg
 Sample : IL7,32,,ABNL5 Lot# 9947
 Misc : WG1788374,,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 07 13:29:06 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.051	152	194948	40.000	ug/ml	0.00
Standard Area 1 = 228780			Recovery =	85.21%		
35) IS1_Naphthalene-d8	5.292	136	781349	40.000	ug/ml	0.00
Standard Area 1 = 921334			Recovery =	84.81%		
63) IS1_Acenaphthene-d10	6.986	164	437292	40.000	ug/ml	0.00
Standard Area 1 = 502804			Recovery =	86.97%		
88) IS1_Phenanthrene-d10	8.404	188	943249	40.000	ug/ml	0.00
Standard Area 1 = 1064896			Recovery =	88.58%		
104) IS1_Chrysene-d12	11.033	240	856012	40.000	ug/ml	0.00
Standard Area 1 = 968465			Recovery =	88.39%		
113) IS1_Perylene-d12	12.910	264	945293	40.000	ug/ml	0.00
Standard Area 1 = 1019256			Recovery =	92.74%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.745	112	24308	4.653	ug/ml	0.01
Spiked Amount 50.000	Range 30 - 130		Recovery =	9.31%#		
7) Phenol-d6	3.775	99	33134	4.710	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery =	9.42%#		
19) Nitrobenzene-d5	4.616	82	33302	4.707	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	18.83%#		
46) 2-Fluorobiphenyl	6.375	172	76346	4.895	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	19.58%#		
79) 2,4,6-Tribromophenol	7.757	330	10388	4.453	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery =	8.91%#		
96) 4-Terphenyl-d14	9.986	244	112227	4.834	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	19.34%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.369	74	17408	4.842	ug/ml	97
3) Pyridine	1.393	79	27528	4.760	ug/ml#	79
5) Aniline	3.734	93	44767	4.791	ug/ml#	57
6) 2-Chlorophenol	3.851	128	30855	4.777	ug/ml	99
8) Phenol	3.787	94	36101	4.770	ug/ml#	63
9) Bis(2-chloroethyl)ether	3.834	93	28855	4.757	ug/ml#	84
10) 1,3-Dichlorobenzene	3.992	146	34577	4.894	ug/ml	97
11) 1,4-Dichlorobenzene	4.063	146	35543	4.914	ug/ml#	93
12) 1,2-Dichlorobenzene	4.216	146	33796	4.849	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL4.D
 Acq On : 31 May 2023 10:28 pm
 Operator : SV109:jg
 Sample : IL7,32,,ABNL5 Lot# 9947
 Misc : WG1788374,,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 07 13:29:06 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.240	79	24780	4.592	ug/ml	93
14) Bis(2-chloroisopropyl)...	4.375	45	39360	4.909	ug/ml#	77
15) 2-Methylphenol	4.381	108	25856	4.635	ug/ml	93
16) Hexachloroethane	4.534	117	15059	4.907	ug/ml	98
17) n-Nitrosodi-n-propylamine	4.504	70	23452	4.747	ug/ml	95
18) 3-Methylphenol/4-Methy...	4.545	108	28542	4.878	ug/ml	92
20) Nitrobenzene	4.634	77	32423	4.657	ug/ml	97
21) Isophorone	4.875	82	64690	4.813	ug/ml	98
22) 2-Nitrophenol	4.951	139	15397	4.438	ug/ml#	95
23) 2,4-Dimethylphenol	5.051	107	29585	4.573	ug/ml	95
24) Bis(2-chloroethoxy)met...	5.128	93	39274	4.796	ug/ml#	96
25) 2,4-Dichlorophenol	5.204	162	27121	4.815	ug/ml	98
26) 1,2,4-Trichlorobenzene	5.257	180	30553	4.790	ug/ml	100
36) Naphthalene	5.316	128	94108	4.825	ug/ml	100
37) Benzoic Acid	5.157	105	15650	5.651	ug/ml#	84
38) 4-Chloroaniline	5.410	65	12116	4.808	ug/ml	97
39) Hexachlorobutadiene	5.469	225	19220	4.743	ug/ml	97
40) p-Chloro-m-cresol	5.934	107	29037	4.773	ug/ml	92
41) 2-Methylnaphthalene	5.998	142	62106	4.792	ug/ml	97
42) 1-Methylnaphthalene	6.086	115	24629	4.974	ug/ml	76
43) Hexachlorocyclopentadiene	6.163	237	6166	8.274	ug/ml	95
44) 2,4,6-Trichlorophenol	6.304	196	19016	4.483	ug/ml	97
45) 2,4,5-Trichlorophenol	6.345	196	20990	4.466	ug/ml	97
47) 2-Chloronaphthalene	6.457	162	65368	4.880	ug/ml	99
48) 2-Nitroaniline	6.592	138	20222	4.489	ug/ml	92
49) 1,4-Dinitrobenzene	6.745	168	8478	4.158	ug/ml	98
50) 1,3-Dinitrobenzene	6.816	168	10431M1	4.465	ug/ml	
51) Dimethyl phthalate	6.792	163	82344	4.907	ug/ml	99
52) Acenaphthylene	6.845	152	105096	4.903	ug/ml	99
53) 2,6-Dinitrotoluene	6.833	165	16857	4.699	ug/ml#	58
54) 1,2-Dinitrobenzene	6.881	168	7403M6	4.808	ug/ml	
64) 3-Nitroaniline	6.992	138	19275	4.669	ug/ml#	70
65) Acenaphthene	7.016	154	63384	4.879	ug/ml	97
66) 2,4-Dinitrophenol	7.128	184	4577	5.218	ug/ml	90
67) Dibenzofuran	7.192	168	97823	4.844	ug/ml	99
68) 2,4-Dinitrotoluene	7.233	165	20845	4.433	ug/ml	90
69) 4-Nitrophenol	7.233	65	11324M3	3.705	ug/ml	
70) 2,3,5,6-Tetrachlorophenol	7.298	232	15455	3.989	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL4.D
 Acq On : 31 May 2023 10:28 pm
 Operator : SV109:jg
 Sample : IL7,32,,ABNL5 Lot# 9947
 Misc : WG1788374,,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 07 13:29:06 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	7.339	232	19299	4.709	ug/ml	95
72) Diethyl phthalate	7.475	149	90480	4.841	ug/ml	99
73) Fluorene	7.516	166	78950	4.833	ug/ml	99
74) 4-Chlorophenyl phenyl ...	7.545	204	38546	4.881	ug/ml	99
75) 4-Nitroaniline	7.575	138	18580	4.597	ug/ml#	81
76) 4,6-Dinitro-o-cresol	7.628	198	7683	5.430	ug/ml#	79
77) NDPA/DPA	7.663	169	68269	4.864	ug/ml	96
78) Azobenzene	7.692	77	81959	4.860	ug/ml	98
80) 4-Bromophenyl phenyl e...	8.010	248	22955	4.693	ug/ml	99
81) Hexachlorobenzene	8.051	284	26921	4.769	ug/ml	97
82) Pentachlorophenol	8.269	266	8050	4.439	ug/ml	97
89) Phenanthrene	8.427	178	122179	4.880	ug/ml	99
90) Anthracene	8.480	178	120459	4.815	ug/ml	99
91) Carbazole	8.657	167	117843	4.868	ug/ml	99
92) Di-n-butylphthalate	9.063	149	158818	4.842	ug/ml	100
93) Fluoranthene	9.574	202	143613	4.831	ug/ml#	96
94) Benzidine	9.745	184	92714	5.018	ug/ml	98
95) Pyrene	9.780	202	150008	4.865	ug/ml	99
97) Butyl benzyl phthalate	10.510	149	70500	4.709	ug/ml	97
105) Benzo(a)anthracene	11.021	228	143444	4.808	ug/ml	100
106) 3,3'-Dichlorobenzidine	11.039	252	54544	4.785	ug/ml	98
107) Chrysene	11.063	228	137318	4.979	ug/ml	100
108) Bis(2-ethylhexyl)phtha...	11.210	149	106387	4.763	ug/ml	99
109) Di-n-octylphthalate	12.063	149	182584	4.635	ug/ml	96
110) Benzo(b)fluoranthene	12.386	252	130066	4.561	ug/ml	96
111) Benzo(k)fluoranthene	12.427	252	135401	5.203	ug/ml	96
112) Benzo(a)pyrene	12.821	252	116833	4.802	ug/ml	98
114) Indeno(1,2,3-cd)pyrene	14.404	276	109743	4.410	ug/ml	97
115) Dibenzo(a,h)anthracene	14.451	278	126071	4.684	ug/ml	96
116) Benzo(ghi)perylene	14.751	276	127432	4.693	ug/ml	96

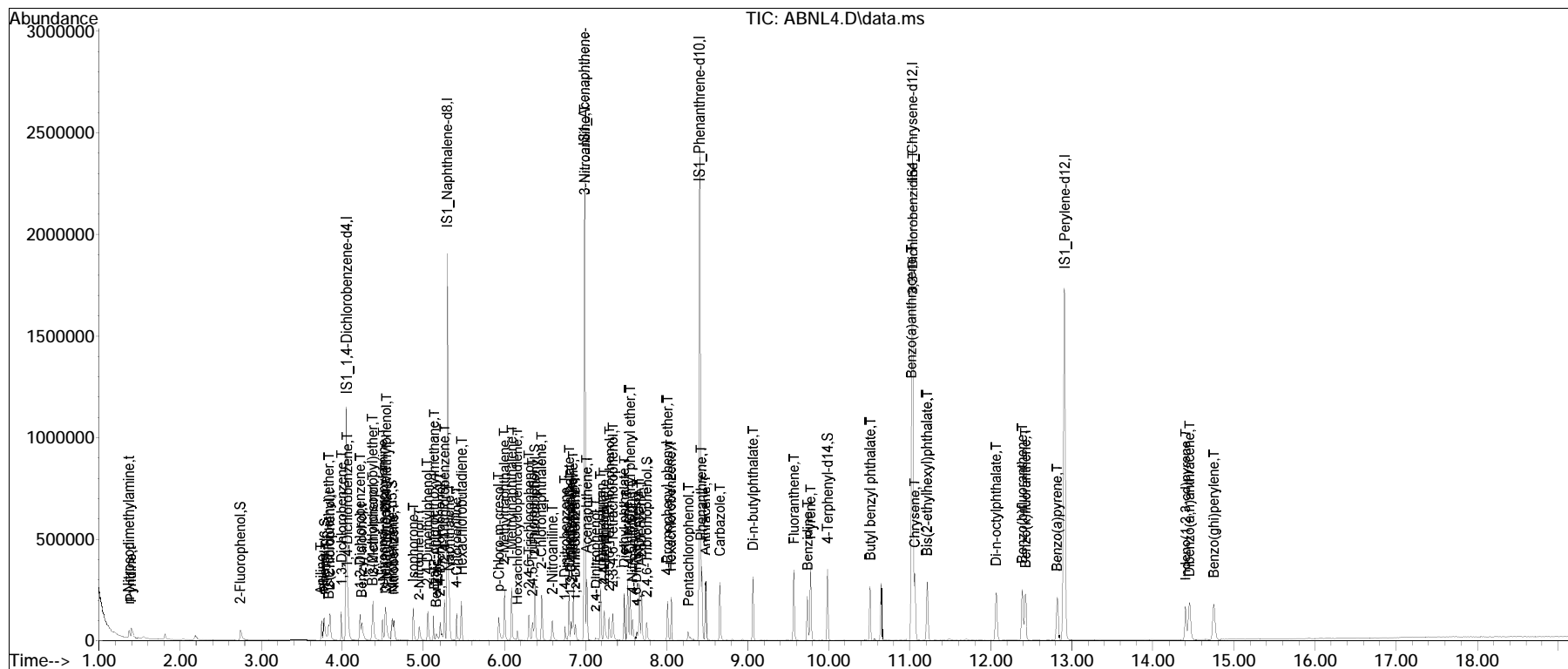
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL4.D
 Acq On : 31 May 2023 10:28 pm
 Operator : SV109:jg
 Sample : IL7,32,,ABNL5 Lot# 9947
 Misc : WG1788374,,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 07 13:29:06 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

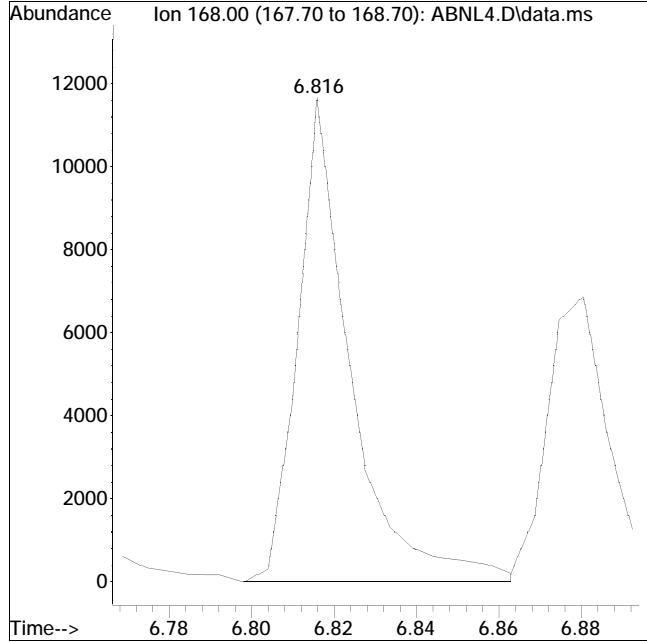
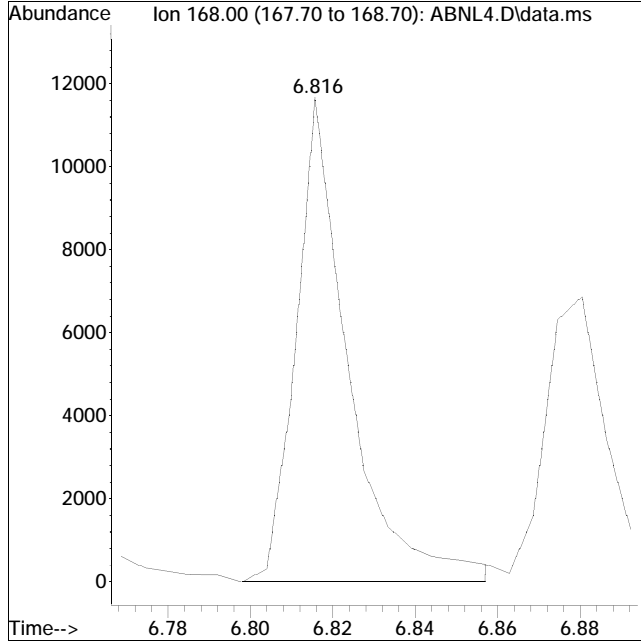
Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ABNL4.D Operator : SV109:jg
Date Inj'd : 5/31/2023 10:28 pm Instrument : SV109
Sample : IL7,32,,ABNL5 Lot# 9947 Quant Date : 6/7/2023 1:15 pm

Compound #50: 1,3-Dinitrobenzene



Original Peak Response = 10357

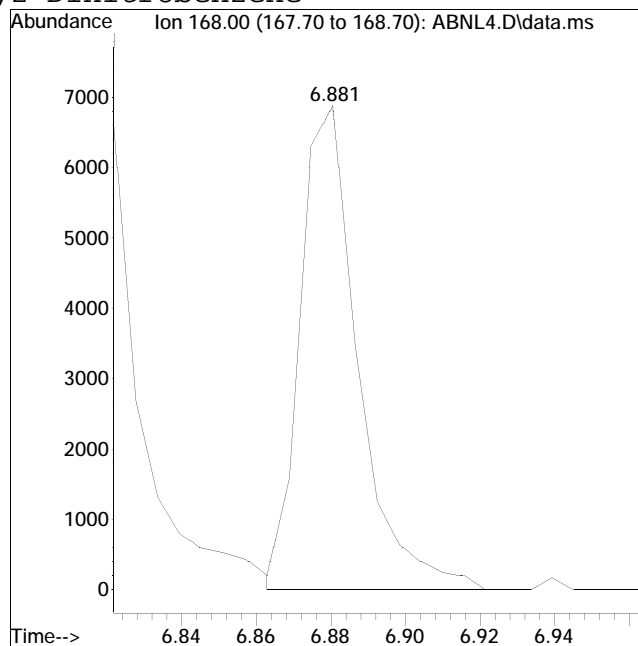
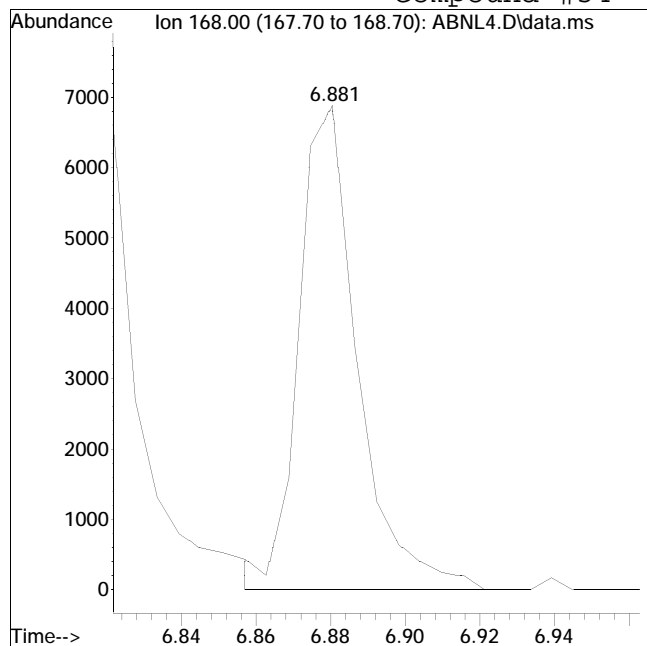
Manual Peak Response = 10431 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ABNL4.D Operator : SV109:jg
Date Inj'd : 5/31/2023 10:28 pm Instrument : SV109
Sample : IL7,32,,ABNL5 Lot# 9947 Quant Date : 6/7/2023 1:15 pm

Compound #54: 1,2-Dinitrobenzene



Original Peak Response = 7477

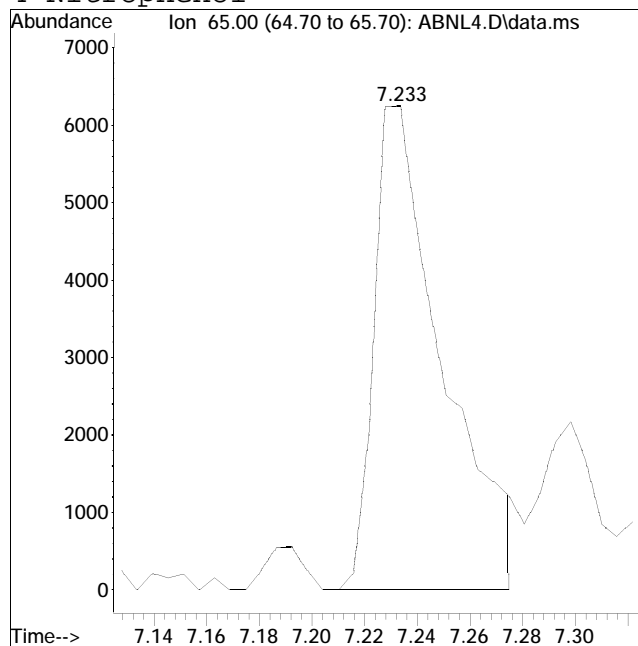
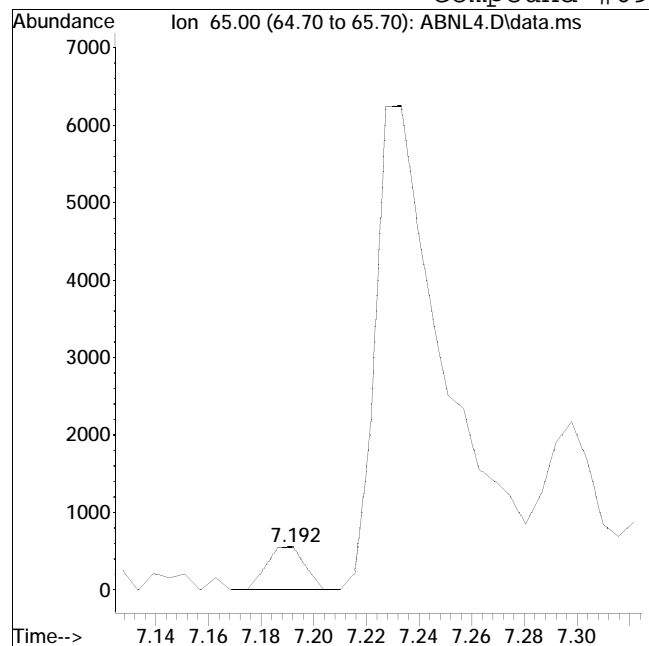
Manual Peak Response = 7403 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ABNL4.D Operator : SV109:jg
Date Inj'd : 5/31/2023 10:28 pm Instrument : SV109
Sample : IL7,32,,ABNL5 Lot# 9947 Quant Date : 6/7/2023 1:15 pm

Compound #69: 4-Nitrophenol



Original Peak Response = 558

Manual Peak Response = 11324 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL3.D
 Acq On : 31 May 2023 10:52 pm
 Operator : SV109:jg
 Sample : IL8,32,,ABNL3 Lot# 9948
 Misc : WG1788374,,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 07 13:15:23 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.045	152	246802	40.000	ug/ml	0.00
Standard Area 1 = 228780			Recovery =	107.88%		
35) IS1_Naphthalene-d8	5.292	136	990292	40.000	ug/ml	0.00
Standard Area 1 = 921334			Recovery =	107.48%		
63) IS1_Acenaphthene-d10	6.986	164	547935	40.000	ug/ml	0.00
Standard Area 1 = 502804			Recovery =	108.98%		
88) IS1_Phenanthrene-d10	8.404	188	1217282	40.000	ug/ml	0.00
Standard Area 1 = 1064896			Recovery =	114.31%		
104) IS1_Chrysene-d12	11.033	240	1074656	40.000	ug/ml	0.00
Standard Area 1 = 968465			Recovery =	110.96%		
113) IS1_Perylene-d12	12.909	264	1197402	40.000	ug/ml	0.00
Standard Area 1 = 1019256			Recovery =	117.48%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.751	112	21443	3.242	ug/ml	0.02
Spiked Amount 50.000	Range 30 - 130		Recovery =	6.48%#		
7) Phenol-d6	3.775	99	29636	3.328	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery =	6.66%#		
19) Nitrobenzene-d5	4.616	82	30301	3.383	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	13.53%#		
46) 2-Fluorobiphenyl	6.375	172	70096	3.546	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	14.18%#		
79) 2,4,6-Tribromophenol	7.757	330	9654	3.303	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery =	6.61%#		
96) 4-Terphenyl-d14	9.986	244	103823	3.466	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	13.86%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.369	74	14755	3.242	ug/ml	98
3) Pyridine	1.398	79	25992	3.550	ug/ml#	75
5) Aniline	3.740	93	40837	3.452	ug/ml#	56
6) 2-Chlorophenol	3.851	128	28192	3.447	ug/ml	98
8) Phenol	3.787	94	33338	3.480	ug/ml#	61
9) Bis(2-chloroethyl)ether	3.834	93	26519	3.453	ug/ml	88
10) 1,3-Dichlorobenzene	3.992	146	30901	3.455	ug/ml	99
11) 1,4-Dichlorobenzene	4.063	146	31535	3.444	ug/ml#	92
12) 1,2-Dichlorobenzene	4.216	146	30393	3.444	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL3.D
 Acq On : 31 May 2023 10:52 pm
 Operator : SV109:jg
 Sample : IL8,32,,ABNL3 Lot# 9948
 Misc : WG1788374,,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 07 13:15:23 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.239	79	22946	3.359	ug/ml	93
14) Bis(2-chloroisopropyl)...	4.375	45	35072	3.455	ug/ml#	72
15) 2-Methylphenol	4.381	108	23789	3.369	ug/ml	94
16) Hexachloroethane	4.534	117	13670	3.519	ug/ml	100
17) n-Nitrosodi-n-propylamine	4.504	70	21651	3.462	ug/ml	94
18) 3-Methylphenol/4-Methy...	4.545	108	25550	3.449	ug/ml	100
20) Nitrobenzene	4.634	77	30274	3.435	ug/ml	93
21) Isophorone	4.875	82	58520	3.439	ug/ml	96
22) 2-Nitrophenol	4.951	139	13848	3.153	ug/ml	95
23) 2,4-Dimethylphenol	5.051	107	27865	3.402	ug/ml	93
24) Bis(2-chloroethoxy)met...	5.128	93	36475	3.518	ug/ml#	94
25) 2,4-Dichlorophenol	5.204	162	24499	3.435	ug/ml	99
26) 1,2,4-Trichlorobenzene	5.257	180	28188	3.491	ug/ml	96
36) Naphthalene	5.316	128	86210	3.488	ug/ml	100
37) Benzoic Acid	5.157	105	13675M6	4.777	ug/ml	
38) 4-Chloroaniline	5.410	65	11154	3.492	ug/ml	94
39) Hexachlorobutadiene	5.469	225	17831	3.472	ug/ml	99
40) p-Chloro-m-cresol	5.933	107	26562	3.445	ug/ml	93
41) 2-Methylnaphthalene	5.998	142	54741	3.333	ug/ml	93
42) 1-Methylnaphthalene	6.086	115	21103	3.362	ug/ml	86
43) Hexachlorocyclopentadiene	6.163	237	5238	7.812	ug/ml	98
44) 2,4,6-Trichlorophenol	6.304	196	18127	3.372	ug/ml	97
45) 2,4,5-Trichlorophenol	6.345	196	18944	3.180	ug/ml	98
47) 2-Chloronaphthalene	6.457	162	60665	3.573	ug/ml	99
48) 2-Nitroaniline	6.592	138	19261	3.374	ug/ml	98
49) 1,4-Dinitrobenzene	6.745	168	7543	2.919	ug/ml	92
50) 1,3-Dinitrobenzene	6.816	168	8788	2.968	ug/ml	77
51) Dimethyl phthalate	6.792	163	77853	3.660	ug/ml	99
52) Acenaphthylene	6.851	152	98104	3.611	ug/ml	100
53) 2,6-Dinitrotoluene	6.839	165	15724	3.458	ug/ml#	59
54) 1,2-Dinitrobenzene	6.880	168	6609	3.386	ug/ml#	31
64) 3-Nitroaniline	6.992	138	17972	3.475	ug/ml#	64
65) Acenaphthene	7.016	154	57789	3.550	ug/ml	99
66) 2,4-Dinitrophenol	7.128	184	3874	4.516	ug/ml	93
67) Dibenzofuran	7.192	168	91392	3.612	ug/ml	98
68) 2,4-Dinitrotoluene	7.233	165	19824	3.364	ug/ml	87
69) 4-Nitrophenol	7.228	65	10711	2.797	ug/ml	88
70) 2,3,5,6-Tetrachlorophenol	7.298	232	15135	3.117	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL3.D
 Acq On : 31 May 2023 10:52 pm
 Operator : SV109:jg
 Sample : IL8,32,,ABNL3 Lot# 9948
 Misc : WG1788374,,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 07 13:15:23 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	7.339	232	17424	3.393	ug/ml	97
72) Diethyl phthalate	7.475	149	83726	3.575	ug/ml	99
73) Fluorene	7.516	166	73517	3.591	ug/ml	98
74) 4-Chlorophenyl phenyl ...	7.545	204	35610	3.599	ug/ml	99
75) 4-Nitroaniline	7.575	138	17703	3.495	ug/ml#	80
76) 4,6-Dinitro-o-cresol	7.627	198	7411	4.754	ug/ml#	80
77) NDPA/DPA	7.669	169	62610	3.560	ug/ml	95
78) Azobenzene	7.692	77	75390	3.568	ug/ml	97
80) 4-Bromophenyl phenyl e...	8.010	248	20926	3.414	ug/ml	94
81) Hexachlorobenzene	8.051	284	25410	3.592	ug/ml	98
82) Pentachlorophenol	8.263	266	7666	3.694	ug/ml	92
89) Phenanthrene	8.427	178	113045	3.499	ug/ml	99
90) Anthracene	8.480	178	112637	3.489	ug/ml	99
91) Carbazole	8.657	167	109201	3.495	ug/ml	99
92) Di-n-butylphthalate	9.063	149	145994	3.449	ug/ml	99
93) Fluoranthene	9.574	202	133212	3.472	ug/ml#	97
94) Benzidine	9.745	184	83040	3.482	ug/ml	98
95) Pyrene	9.780	202	142214	3.574	ug/ml	98
97) Butyl benzyl phthalate	10.504	149	65724	3.402	ug/ml	99
105) Benzo(a)anthracene	11.021	228	135086	3.607	ug/ml	99
106) 3,3'-Dichlorobenzidine	11.039	252	51549	3.602	ug/ml#	96
107) Chrysene	11.057	228	128163	3.702	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	11.210	149	99805	3.559	ug/ml	98
109) Di-n-octylphthalate	12.068	149	170115	3.440	ug/ml#	94
110) Benzo(b)fluoranthene	12.392	252	128821	3.598	ug/ml	96
111) Benzo(k)fluoranthene	12.427	252	119625	3.661	ug/ml	99
112) Benzo(a)pyrene	12.821	252	110309	3.612	ug/ml	97
114) Indeno(1,2,3-cd)pyrene	14.403	276	102618	3.255	ug/ml	95
115) Dibenzo(a,h)anthracene	14.451	278	117677	3.452	ug/ml	96
116) Benzo(ghi)perylene	14.751	276	120521	3.504	ug/ml	95

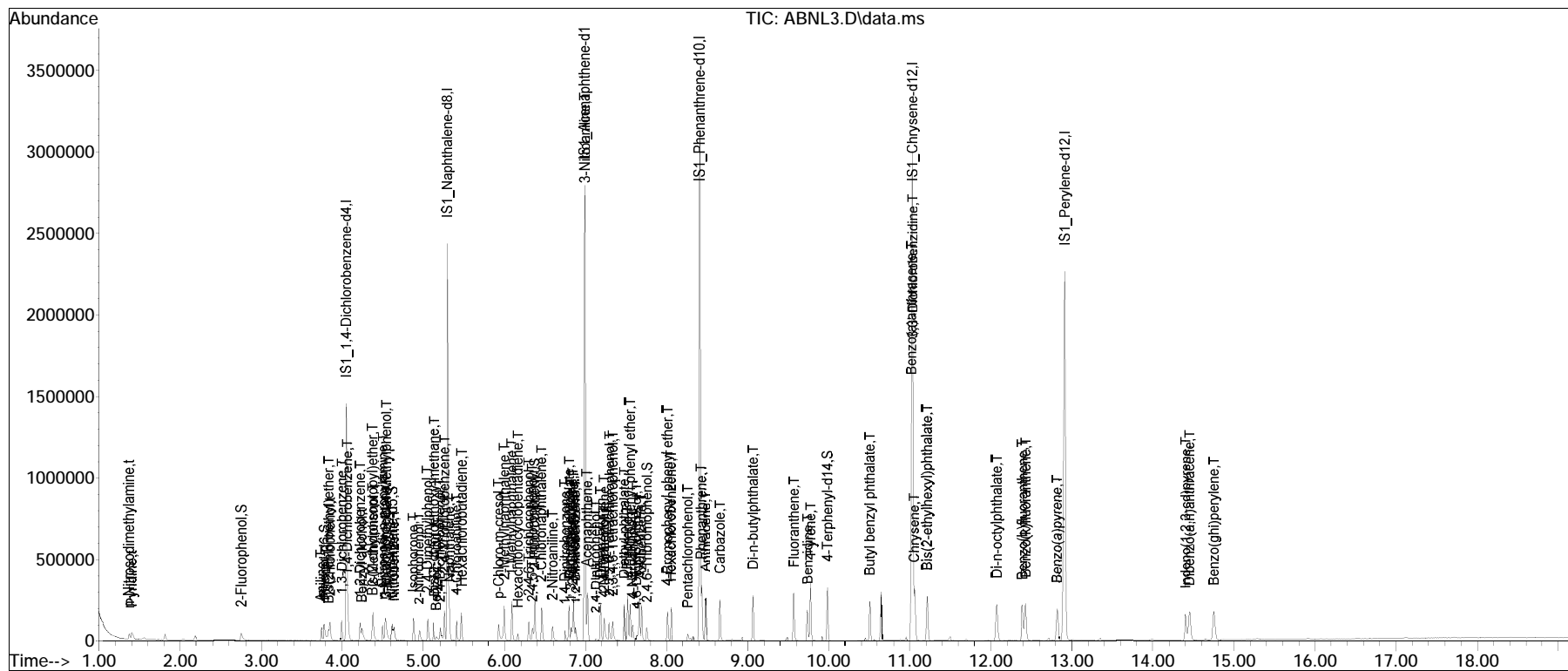
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL3.D
 Acq On : 31 May 2023 10:52 pm
 Operator : SV109:jg
 Sample : IL8,32,,ABNL3 Lot# 9948
 Misc : WG1788374,,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 07 13:15:23 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

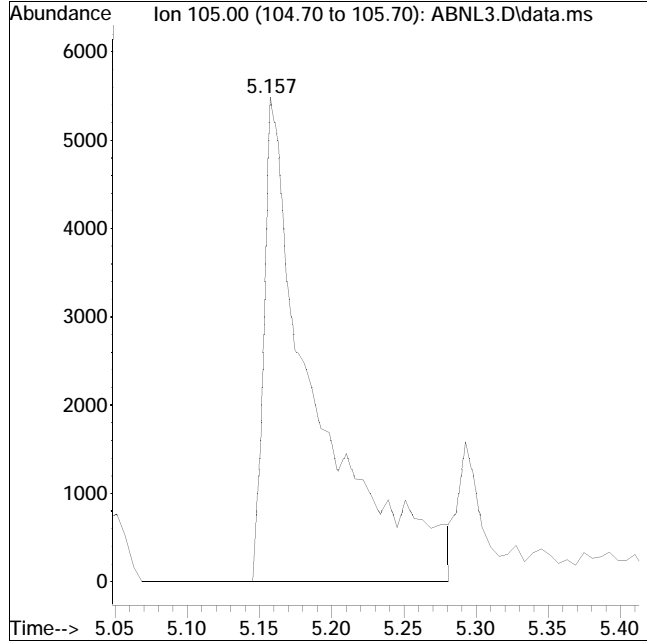
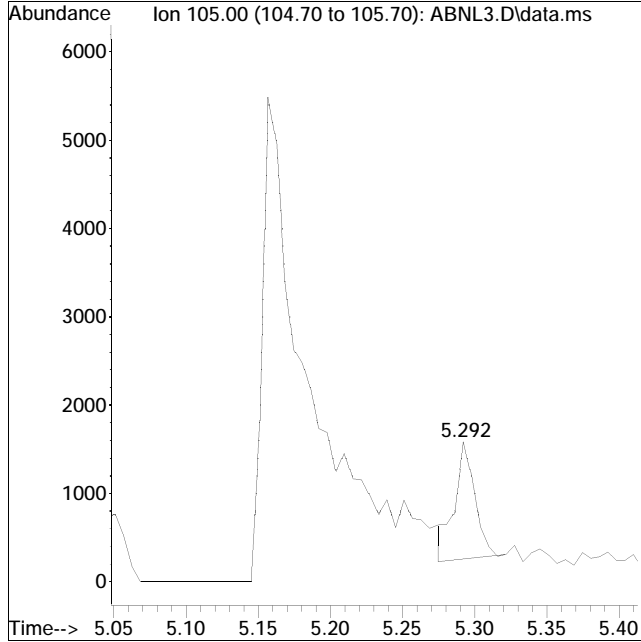
Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ABNL3.D Operator : SV109:jg
Date Inj'd : 5/31/2023 10:52 pm Instrument : SV109
Sample : IL8,32,,ABNL3 Lot# 9948 Quant Date : 6/7/2023 1:15 pm

Compound #37: Benzoic Acid



Original Peak Response = 1286

Manual Peak Response = 13675 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL2.D
 Acq On : 31 May 2023 11:15 pm
 Operator : SV109:jg
 Sample : IL9,32,,ABNL2 Lot# 9949
 Misc : WG1788374,,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 13:15:12 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.045	152	214111	40.000	ug/ml	0.00
Standard Area 1 = 228780			Recovery =	93.59%		
35) IS1_Naphthalene-d8	5.292	136	867596	40.000	ug/ml	0.00
Standard Area 1 = 921334			Recovery =	94.17%		
63) IS1_Acenaphthene-d10	6.986	164	480821	40.000	ug/ml	0.00
Standard Area 1 = 502804			Recovery =	95.63%		
88) IS1_Phenanthrene-d10	8.404	188	1066958	40.000	ug/ml	0.00
Standard Area 1 = 1064896			Recovery =	100.19%		
104) IS1_Chrysene-d12	11.033	240	948708	40.000	ug/ml	0.00
Standard Area 1 = 968465			Recovery =	97.96%		
113) IS1_Perylene-d12	12.910	264	1055404	40.000	ug/ml	0.00
Standard Area 1 = 1019256			Recovery =	103.55%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.757	112	9510	1.657	ug/ml	0.02
Spiked Amount 50.000	Range 30 - 130		Recovery =	3.31%#		
7) Phenol-d6	3.781	99	13824	1.789	ug/ml	0.01
Spiked Amount 50.000	Range 30 - 130		Recovery =	3.58%#		
19) Nitrobenzene-d5	4.622	82	14289	1.839	ug/ml	0.01
Spiked Amount 25.000	Range 40 - 140		Recovery =	7.36%#		
46) 2-Fluorobiphenyl	6.375	172	33207	1.917	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	7.67%#		
79) 2,4,6-Tribromophenol	7.757	330	4553	1.775	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery =	3.55%#		
96) 4-Terphenyl-d14	9.986	244	50425	1.920	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	7.68%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.375	74	7366	1.865	ug/ml#	97
3) Pyridine	1.410	79	11230	1.768	ug/ml#	74
5) Aniline	3.740	93	18853	1.837	ug/ml#	57
6) 2-Chlorophenol	3.851	128	13160	1.855	ug/ml	100
8) Phenol	3.793	94	14735	1.773	ug/ml#	60
9) Bis(2-chloroethyl)ether	3.840	93	12223	1.835	ug/ml	86
10) 1,3-Dichlorobenzene	3.992	146	14993	1.932	ug/ml	96
11) 1,4-Dichlorobenzene	4.069	146	15392	1.938	ug/ml#	82
12) 1,2-Dichlorobenzene	4.216	146	14950	1.953	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL2.D
 Acq On : 31 May 2023 11:15 pm
 Operator : SV109:jg
 Sample : IL9,32,,ABNL2 Lot# 9949
 Misc : WG1788374,,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 13:15:12 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.245	79	10281	1.735	ug/ml	91
14) Bis(2-chloroisopropyl)...	4.375	45	17538	1.992	ug/ml#	83
15) 2-Methylphenol	4.387	108	11856	1.935	ug/ml	96
16) Hexachloroethane	4.534	117	6753	2.004	ug/ml	98
17) n-Nitrosodi-n-propylamine	4.504	70	10046	1.852	ug/ml#	94
18) 3-Methylphenol/4-Methy...	4.557	108	11951	1.860	ug/ml	91
20) Nitrobenzene	4.640	77	13962	1.826	ug/ml	92
21) Isophorone	4.881	82	28394	1.923	ug/ml	97
22) 2-Nitrophenol	4.957	139	6212	1.630	ug/ml	95
23) 2,4-Dimethylphenol	5.051	107	12881	1.813	ug/ml	94
24) Bis(2-chloroethoxy)met...	5.128	93	17538	1.950	ug/ml#	94
25) 2,4-Dichlorophenol	5.216	162	11077	1.790	ug/ml	100
26) 1,2,4-Trichlorobenzene	5.257	180	13330	1.903	ug/ml	98
36) Naphthalene	5.316	128	41877	1.934	ug/ml	99
37) Benzoic Acid	5.187	105	5080	3.659	ug/ml#	74
38) 4-Chloroaniline	5.416	65	5075	1.814	ug/ml	98
39) Hexachlorobutadiene	5.469	225	9010	2.003	ug/ml	96
40) p-Chloro-m-cresol	5.939	107	12141	1.797	ug/ml	88
41) 2-Methylnaphthalene	5.998	142	26805	1.863	ug/ml	95
42) 1-Methylnaphthalene	6.086	115	10579	1.924	ug/ml	83
43) Hexachlorocyclopentadiene	6.169	237	1351	7.150	ug/ml#	94
44) 2,4,6-Trichlorophenol	6.304	196	7935	1.685	ug/ml	94
45) 2,4,5-Trichlorophenol	6.351	196	9981M3	1.913	ug/ml	
47) 2-Chloronaphthalene	6.463	162	28220	1.897	ug/ml	97
48) 2-Nitroaniline	6.592	138	8420	1.683	ug/ml	95
49) 1,4-Dinitrobenzene	6.751	168	3024	1.336	ug/ml	91
50) 1,3-Dinitrobenzene	6.822	168	3866	1.490	ug/ml#	74
51) Dimethyl phthalate	6.792	163	36403	1.954	ug/ml	100
52) Acenaphthylene	6.851	152	46652	1.960	ug/ml	98
53) 2,6-Dinitrotoluene	6.839	165	6928	1.739	ug/ml#	57
54) 1,2-Dinitrobenzene	6.881	168	3228	1.888	ug/ml#	29
64) 3-Nitroaniline	6.992	138	8069	1.778	ug/ml#	33
65) Acenaphthene	7.016	154	27134	1.899	ug/ml	98
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	7.192	168	42957	1.935	ug/ml	98
68) 2,4-Dinitrotoluene	7.239	165	8426	1.630	ug/ml	93
69) 4-Nitrophenol	7.245	65	4263	1.268	ug/ml#	78
70) 2,3,5,6-Tetrachlorophenol	7.298	232	6733	1.580	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL2.D
 Acq On : 31 May 2023 11:15 pm
 Operator : SV109:jg
 Sample : IL9,32,,ABNL2 Lot# 9949
 Misc : WG1788374,,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 13:15:12 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

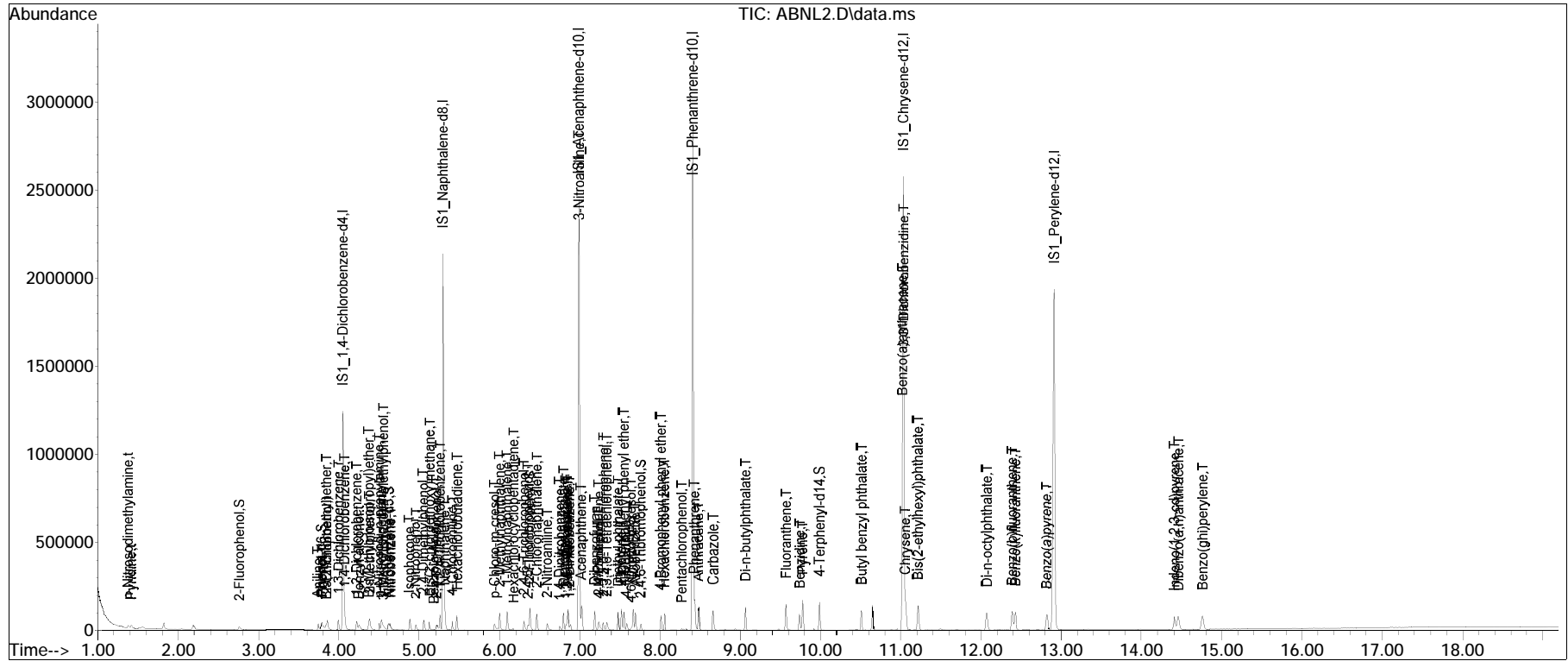
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	7.339	232	7385	1.639	ug/ml#	85
72) Diethyl phthalate	7.475	149	40441	1.968	ug/ml	99
73) Fluorene	7.516	166	34291	1.909	ug/ml	98
74) 4-Chlorophenyl phenyl ...	7.545	204	16696	1.923	ug/ml	98
75) 4-Nitroaniline	7.575	138	7466	1.680	ug/ml#	81
76) 4,6-Dinitro-o-cresol	7.639	198	2343	3.309	ug/ml#	1
77) NDPA/DPA	7.669	169	29912	1.938	ug/ml	95
78) Azobenzene	7.692	77	36739	1.982	ug/ml	98
80) 4-Bromophenyl phenyl e...	8.010	248	10236	1.903	ug/ml	99
81) Hexachlorobenzene	8.051	284	12296	1.981	ug/ml	96
82) Pentachlorophenol	8.269	266	2796	2.311	ug/ml#	85
89) Phenanthrene	8.427	178	54527	1.925	ug/ml	99
90) Anthracene	8.480	178	53119	1.877	ug/ml	99
91) Carbazole	8.663	167	52819	1.929	ug/ml	98
92) Di-n-butylphthalate	9.063	149	69849	1.883	ug/ml	99
93) Fluoranthene	9.574	202	64410	1.915	ug/ml#	97
94) Benzidine	9.745	184	41160	1.969	ug/ml	97
95) Pyrene	9.780	202	68653	1.968	ug/ml	99
97) Butyl benzyl phthalate	10.510	149	31053	1.834	ug/ml	99
105) Benzo(a)anthracene	11.021	228	66112	2.000	ug/ml	98
106) 3,3'-Dichlorobenzidine	11.039	252	23067	1.826	ug/ml#	95
107) Chrysene	11.057	228	65408	2.140	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	11.210	149	46838	1.892	ug/ml	98
109) Di-n-octylphthalate	12.068	149	78600	1.800	ug/ml	95
110) Benzo(b)fluoranthene	12.386	252	60332	1.909	ug/ml	98
111) Benzo(k)fluoranthene	12.427	252	56878	1.972	ug/ml	99
112) Benzo(a)pyrene	12.821	252	53385	1.980	ug/ml	96
114) Indeno(1,2,3-cd)pyrene	14.409	276	48963	1.762	ug/ml	97
115) Dibenzo(a,h)anthracene	14.457	278	54694	1.820	ug/ml	96
116) Benzo(ghi)perylene	14.756	276	55847	1.842	ug/ml	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\8270\SV109\230531ical\
Data File : ABNL2.D
Acq On : 31 May 2023 11:15 pm
Operator : SV109:jg
Sample : IL9,32,,ABNL2 Lot# 9949
Misc : WG1788374,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 13:15:12 2023
Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 07 12:55:51 2023
Response via : Initial Calibration

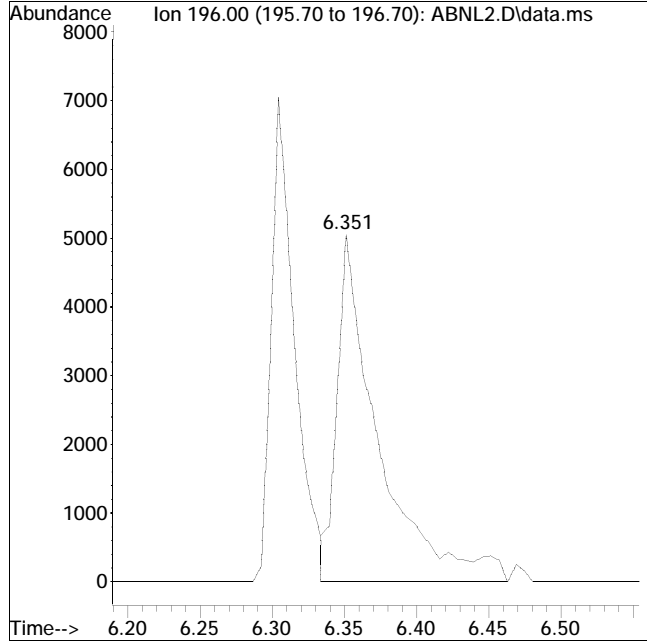
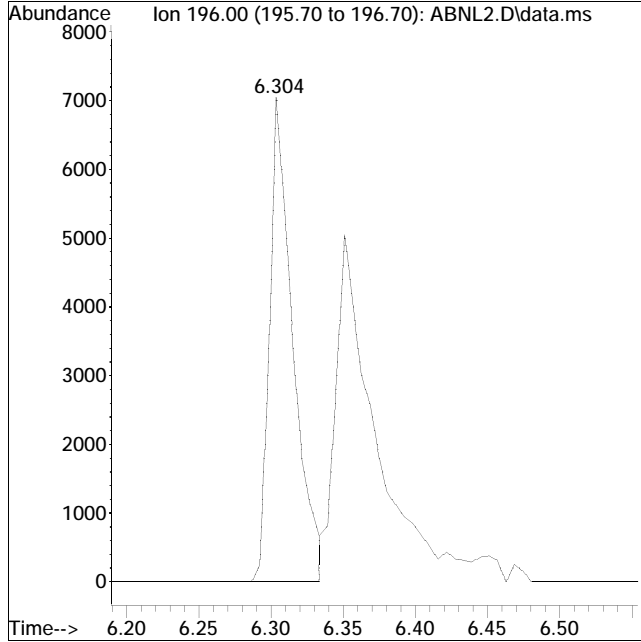
Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ABNL2.D Operator : SV109:jg
Date Inj'd : 5/31/2023 11:15 pm Instrument : SV109
Sample : IL9,32,,ABNL2 Lot# 9949 Quant Date : 6/7/2023 1:14 pm

Compound #45: 2,4,5-Trichlorophenol



Original Peak Response = 7935

Manual Peak Response = 9981 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL1.D
 Acq On : 31 May 2023 11:38 pm
 Operator : SV109:jg
 Sample : IL10,32,,ABNL1 Lot# 9950
 Misc : WG1788374,,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 07 13:14:15 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.046	152	259652	40.000	ug/ml	0.00
Standard Area 1 = 228780			Recovery = 113.49%			
35) IS1_Naphthalene-d8	5.293	136	1041067	40.000	ug/ml	0.00
Standard Area 1 = 921334			Recovery = 113.00%			
63) IS1_Acenaphthene-d10	6.987	164	586945	40.000	ug/ml	0.00
Standard Area 1 = 502804			Recovery = 116.73%			
88) IS1_Phenanthrene-d10	8.404	188	1279356	40.000	ug/ml	0.00
Standard Area 1 = 1064896			Recovery = 120.14%			
104) IS1_Chrysene-d12	11.033	240	1158559	40.000	ug/ml	0.00
Standard Area 1 = 968465			Recovery = 119.63%			
113) IS1_Perylene-d12	12.910	264	1309231	40.000	ug/ml	0.00
Standard Area 1 = 1019256			Recovery = 128.45%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.757	112	5152	0.740	ug/ml	0.02
Spiked Amount 50.000	Range 30 - 130		Recovery = 1.48%#			
7) Phenol-d6	3.781	99	7721	0.824	ug/ml	0.01
Spiked Amount 50.000	Range 30 - 130		Recovery = 1.65%#			
19) Nitrobenzene-d5	4.622	82	8443	0.896	ug/ml	0.01
Spiked Amount 25.000	Range 40 - 140		Recovery = 3.58%#			
46) 2-Fluorobiphenyl	6.375	172	19965	0.961	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 3.84%#			
79) 2,4,6-Tribromophenol	7.757	330	2233	0.713	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 1.43%#			
96) 4-Terphenyl-d14	9.986	244	30950	0.983	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 3.93%#			
Target Compounds						
2) n-Nitrosodimethylamine	1.381	74	4267	0.891	ug/ml#	94
3) Pyridine	1.422	79	6476	0.841	ug/ml#	74
5) Aniline	3.746	93	11255	0.904	ug/ml#	55
6) 2-Chlorophenol	3.857	128	7904	0.919	ug/ml	96
8) Phenol	3.793	94	9485	0.941	ug/ml#	60
9) Bis(2-chloroethyl)ether	3.840	93	7325	0.907	ug/ml#	85
10) 1,3-Dichlorobenzene	3.993	146	9127	0.970	ug/ml	99
11) 1,4-Dichlorobenzene	4.063	146	9804	1.018	ug/ml#	78
12) 1,2-Dichlorobenzene	4.222	146	8962	0.965	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL1.D
 Acq On : 31 May 2023 11:38 pm
 Operator : SV109:jg
 Sample : IL10,32,,ABNL1 Lot# 9950
 Misc : WG1788374,,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 07 13:14:15 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.251	79	5564	0.774	ug/ml	94
14) Bis(2-chloroisopropyl)...	4.375	45	10464	0.980	ug/ml#	73
15) 2-Methylphenol	4.393	108	6674	0.898	ug/ml	96
16) Hexachloroethane	4.534	117	3763	0.921	ug/ml	90
17) n-Nitrosodi-n-propylamine	4.510	70	5904	0.897	ug/ml#	84
18) 3-Methylphenol/4-Methy...	4.563	108	6029	0.774	ug/ml	98
20) Nitrobenzene	4.640	77	7892	0.851	ug/ml	95
21) Isophorone	4.881	82	16371	0.915	ug/ml#	95
22) 2-Nitrophenol	4.963	139	3445	0.746	ug/ml	96
23) 2,4-Dimethylphenol	5.051	107	7617	0.884	ug/ml	91
24) Bis(2-chloroethoxy)met...	5.128	93	9749	0.894	ug/ml#	96
25) 2,4-Dichlorophenol	5.228	162	6040	0.805	ug/ml#	92
26) 1,2,4-Trichlorobenzene	5.257	180	8259	0.972	ug/ml	98
36) Naphthalene	5.316	128	25949	0.999	ug/ml	98
37) Benzoic Acid	5.222	105	2431M3	3.164	ug/ml	
38) 4-Chloroaniline	5.416	65	3037	0.905	ug/ml	98
39) Hexachlorobutadiene	5.469	225	5178	0.959	ug/ml	100
40) p-Chloro-m-cresol	5.940	107	6877	0.848	ug/ml#	82
41) 2-Methylnaphthalene	5.998	142	16434	0.952	ug/ml	95
42) 1-Methylnaphthalene	6.087	115	6542	0.992	ug/ml	81
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	6.310	196	5023	0.889	ug/ml	94
45) 2,4,5-Trichlorophenol	6.363	196	5702M3	0.911	ug/ml	
47) 2-Chloronaphthalene	6.463	162	17140	0.960	ug/ml	98
48) 2-Nitroaniline	6.598	138	4634	0.772	ug/ml	90
49) 1,4-Dinitrobenzene	6.751	168	1592	0.586	ug/ml	89
50) 1,3-Dinitrobenzene	6.828	168	2282	0.733	ug/ml#	20
51) Dimethyl phthalate	6.792	163	20971	0.938	ug/ml	100
52) Acenaphthylene	6.851	152	27271	0.955	ug/ml	99
53) 2,6-Dinitrotoluene	6.840	165	3792	0.793	ug/ml#	43
54) 1,2-Dinitrobenzene	6.881	168	1699	0.828	ug/ml#	26
64) 3-Nitroaniline	6.998	138	4593	0.829	ug/ml#	1
65) Acenaphthene	7.016	154	16737	0.960	ug/ml	98
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	7.192	168	26221	0.967	ug/ml	99
68) 2,4-Dinitrotoluene	7.239	165	4613	0.731	ug/ml	92
69) 4-Nitrophenol	7.251	65	2095	0.511	ug/ml#	86
70) 2,3,5,6-Tetrachlorophenol	7.304	232	3649	0.702	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL1.D
 Acq On : 31 May 2023 11:38 pm
 Operator : SV109:jg
 Sample : IL10,32,,ABNL1 Lot# 9950
 Misc : WG1788374,,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 07 13:14:15 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	7.345	232	4952	0.900	ug/ml	98
72) Diethyl phthalate	7.475	149	23691	0.944	ug/ml	99
73) Fluorene	7.516	166	20764	0.947	ug/ml	100
74) 4-Chlorophenyl phenyl ...	7.545	204	10265	0.968	ug/ml	98
75) 4-Nitroaniline	7.581	138	4407	0.812	ug/ml	87
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
77) NDPA/DPA	7.669	169	17785	0.944	ug/ml	98
78) Azobenzene	7.692	77	21565	0.953	ug/ml	99
80) 4-Bromophenyl phenyl e...	8.010	248	6107	0.930	ug/ml	95
81) Hexachlorobenzene	8.051	284	6965	0.919	ug/ml	96
82) Pentachlorophenol	8.275	266	956	1.601	ug/ml#	19
89) Phenanthrene	8.428	178	33580	0.989	ug/ml	97
90) Anthracene	8.481	178	32437	0.956	ug/ml	99
91) Carbazole	8.663	167	32035	0.976	ug/ml	99
92) Di-n-butylphthalate	9.063	149	41236	0.927	ug/ml	99
93) Fluoranthene	9.575	202	38995	0.967	ug/ml#	96
94) Benzidine	9.745	184	24933	0.995	ug/ml	98
95) Pyrene	9.781	202	40746	0.974	ug/ml	98
97) Butyl benzyl phthalate	10.504	149	18225	0.898	ug/ml	96
105) Benzo(a)anthracene	11.022	228	42492	1.052	ug/ml	97
106) 3,3'-Dichlorobenzidine	11.039	252	13952	0.904	ug/ml#	92
107) Chrysene	11.057	228	39675	1.063	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	11.210	149	28323	0.937	ug/ml	97
109) Di-n-octylphthalate	12.069	149	46933	0.880	ug/ml	95
110) Benzo(b)fluoranthene	12.392	252	35734	0.926	ug/ml	99
111) Benzo(k)fluoranthene	12.427	252	36154	1.026	ug/ml	98
112) Benzo(a)pyrene	12.827	252	32005	0.972	ug/ml	97
114) Indeno(1,2,3-cd)pyrene	14.410	276	29197	0.847	ug/ml	96
115) Dibenzo(a,h)anthracene	14.457	278	33833	0.908	ug/ml	95
116) Benzo(ghi)perylene	14.757	276	34725	0.923	ug/ml	96

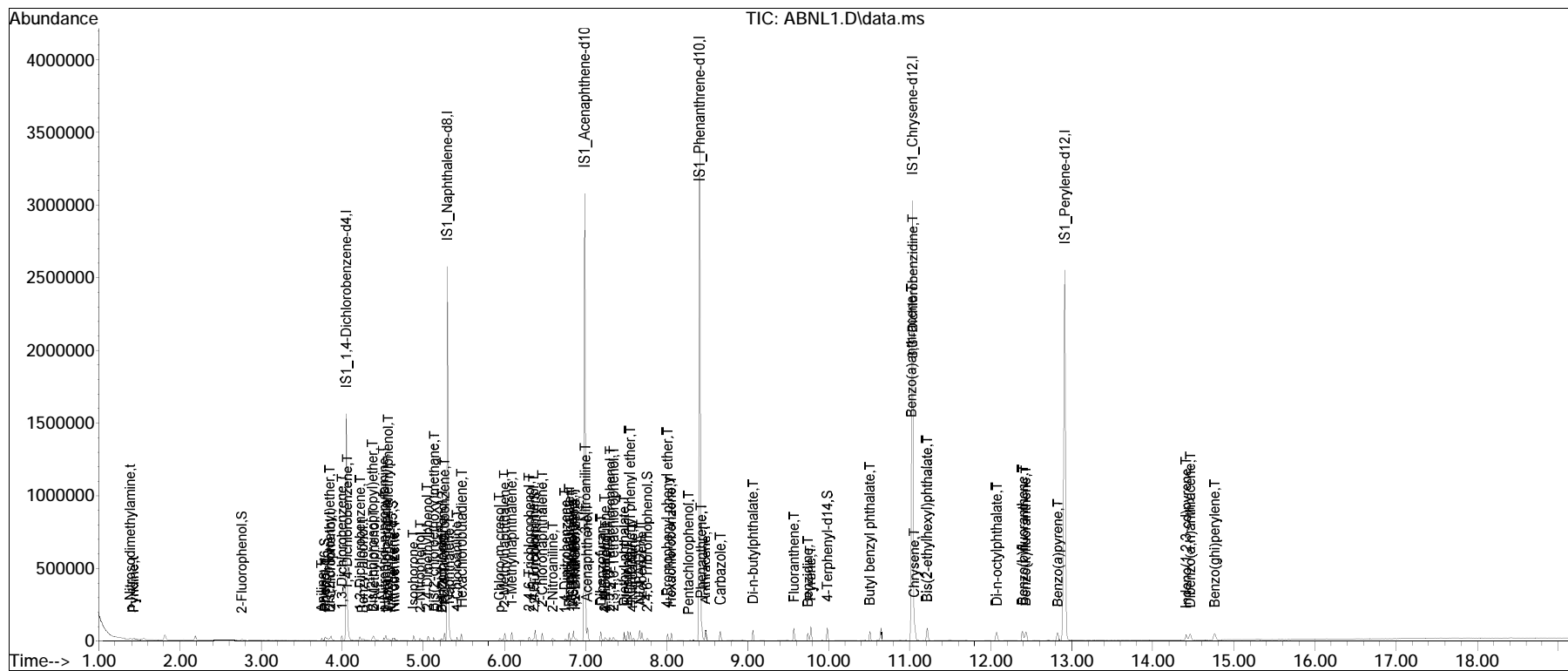
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNL1.D
 Acq On : 31 May 2023 11:38 pm
 Operator : SV109:jg
 Sample : IL10,32,,ABNL1 Lot# 9950
 Misc : WG1788374,,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 07 13:14:15 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

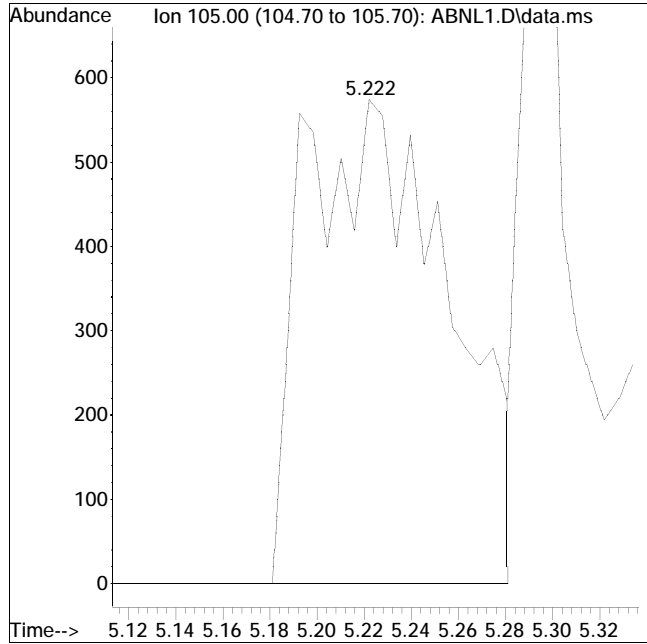
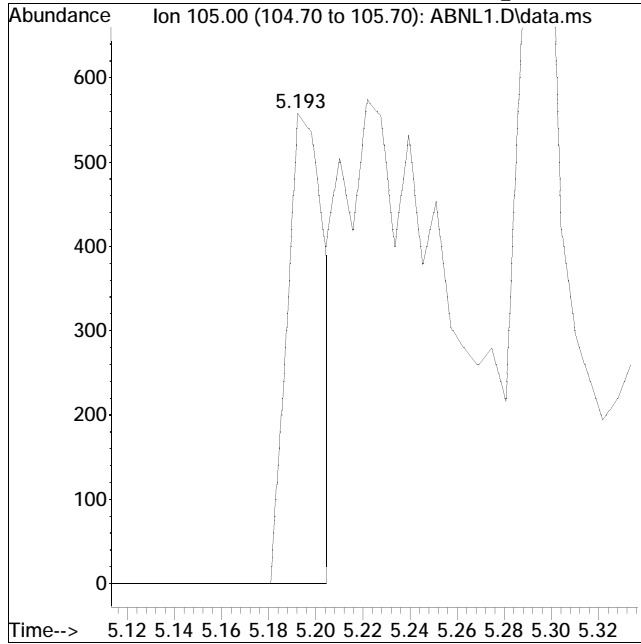
Sub List : ABNical - ABN ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ABNL1.D Operator : SV109:jg
Date Inj'd : 5/31/2023 11:38 pm Instrument : SV109
Sample : IL10,32,,ABNL1 Lot# 9950 Quant Date : 6/7/2023 1:13 pm

Compound #37: Benzoic Acid



Original Peak Response = 614

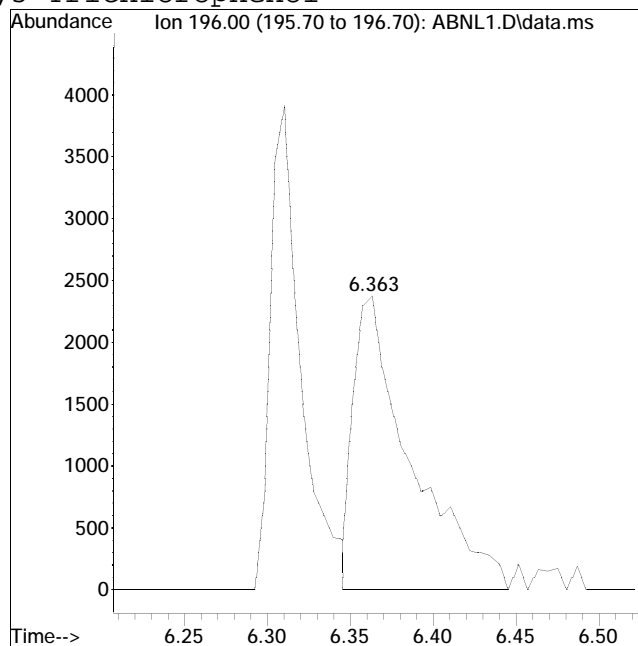
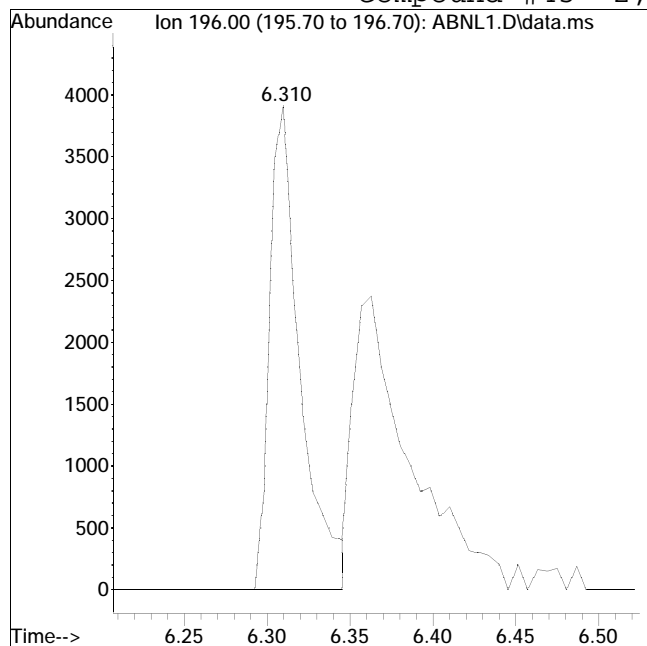
Manual Peak Response = 2431 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ABNL1.D Operator : SV109:jg
Date Inj'd : 5/31/2023 11:38 pm Instrument : SV109
Sample : IL10,32,,ABNL1 Lot# 9950 Quant Date : 6/7/2023 1:13 pm

Compound #45: 2,4,5-Trichlorophenol



Original Peak Response = 5023

Manual Peak Response = 5702 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9L10a.D
 Acq On : 1 Jun 2023 7:10 am
 Operator : SV109:jg
 Sample : IL11,32,,AP9L200 Lot# 10065
 Misc : WG1788374,,
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 07 13:18:15 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.051	152	244530	40.000	ug/ml	0.00
Standard Area 3 = 188873			Recovery	=	129.47%	
55) IS2_Naphthalene-d8	5.293	136	976825	40.000	ug/ml	0.00
Standard Area 3 = 764198			Recovery	=	127.82%	
83) IS2_Acenaphthene-d10	6.987	164	536387	40.000	ug/ml	0.00
Standard Area 3 = 424819			Recovery	=	126.26%	
98) IS2_Phenanthrene-d10	8.410	188	1161132	40.000	ug/ml	0.00
Standard Area 3 = 930263			Recovery	=	124.82%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.604	105	779936	154.969	ug/ml	97
29) Acetophenone	4.475	105	2304673	210.216	ug/ml	93
30) m-Toluidine	4.557	106	1686923	181.582	ug/ml	99
31) 2-Chloroaniline	4.916	127	2033158	203.771	ug/ml	99
56) a-Terpineol	5.381	59	1237532	193.822	ug/ml#	78
57) 3-Chloroaniline	5.393	65	582328	182.184	ug/ml	91
58) 2,6-Dichlorophenol	5.416	162	1381093	210.530	ug/ml	92
59) 1-chloro-2-nitrobenzene	5.669	111	732459	210.911	ug/ml	98
60) Caprolactam	5.769	55	726868	199.991	ug/ml#	79
61) 1,2,4,5-Tetrachloroben...	6.175	216	1743051	206.800	ug/ml	99
62) Biphenyl	6.469	154	3993944	199.641	ug/ml	100
84) Dichloran	8.139	206	572532	235.211	ug/ml	91
85) Pentachloronitrobenzene	8.275	237	592988	214.711	ug/ml	93
99) Diphenamid	9.345	167	3013503	202.914	ug/ml	91

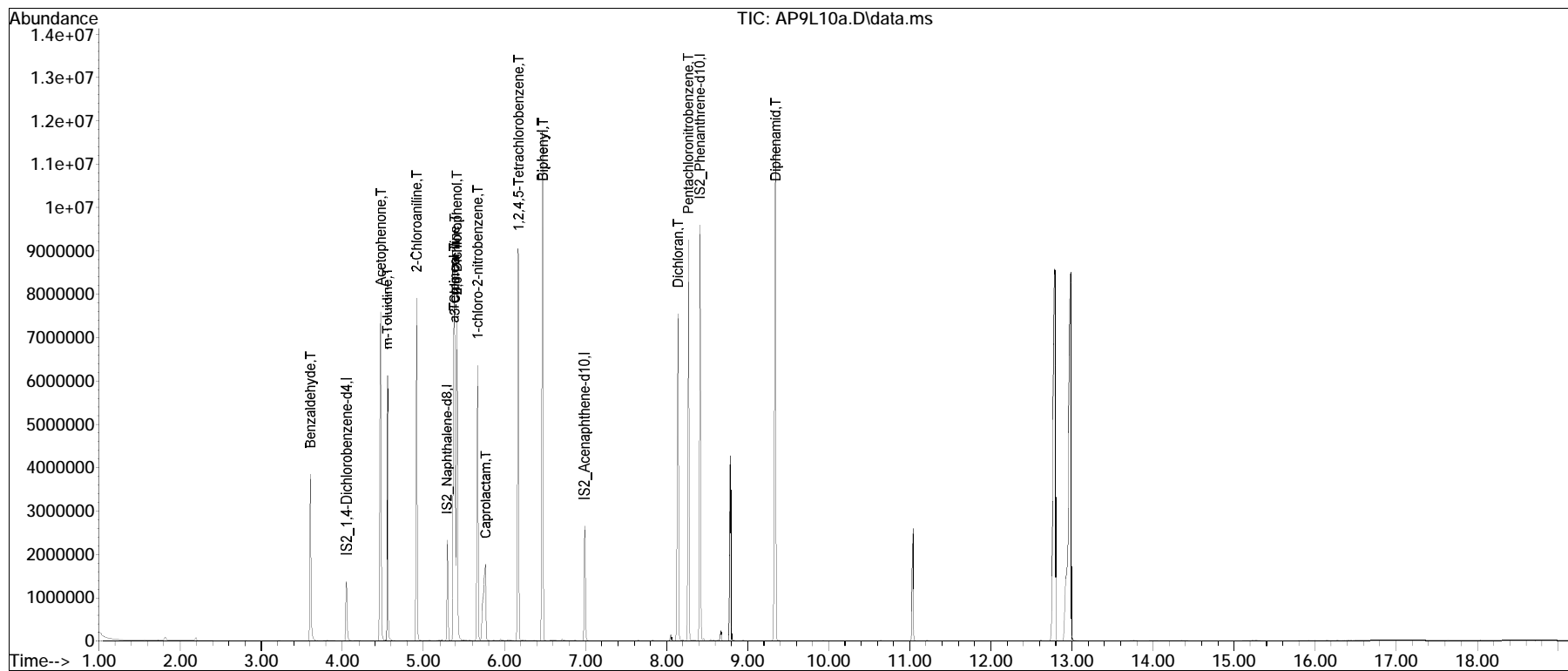
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
Data File : AP9L10a.D
Acq On : 1 Jun 2023 7:10 am
Operator : SV109:jg
Sample : IL11,32,,AP9L200 Lot# 10065
Misc : WG1788374,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 07 13:18:15 2023
Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 07 12:55:51 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : AP9L10a.D Operator : SV109:jg
Date Inj'd : 6/1/2023 7:10 am Instrument : SV109
Sample : IL11,32,,AP9L200 Lot# 1006Quant Date : 6/7/2023 1:17 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9L9a.D
 Acq On : 1 Jun 2023 7:34 am
 Operator : SV109:jg
 Sample : IL12,32,,AP9L150 Lot# 10066
 Misc : WG1788374,,
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 07 13:20:20 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.051	152	242489	40.000	ug/ml	0.00
Standard Area 3 = 188873			Recovery	=	128.39%	
55) IS2_Naphthalene-d8	5.292	136	997805	40.000	ug/ml	0.00
Standard Area 3 = 764198			Recovery	=	130.57%	
83) IS2_Acenaphthene-d10	6.986	164	548619	40.000	ug/ml	0.00
Standard Area 3 = 424819			Recovery	=	129.14%	
98) IS2_Phenanthrene-d10	8.410	188	1180582	40.000	ug/ml	0.00
Standard Area 3 = 930263			Recovery	=	126.91%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.604	105	737761	147.823	ug/ml	97
29) Acetophenone	4.475	105	1787046	164.374	ug/ml	93
30) m-Toluidine	4.557	106	1426942	154.890	ug/ml	99
31) 2-Chloroaniline	4.916	127	1558928	157.557	ug/ml	99
56) a-Terpineol	5.381	59	977711	149.909	ug/ml#	81
57) 3-Chloroaniline	5.392	65	479242	146.781	ug/ml	93
58) 2,6-Dichlorophenol	5.416	162	1037050	154.761	ug/ml#	90
59) 1-chloro-2-nitrobenzene	5.669	111	564979	159.265	ug/ml	97
60) Caprolactam	5.757	55	553327	149.042	ug/ml#	80
61) 1,2,4,5-Tetrachloroben...	6.169	216	1297511	150.703	ug/ml	99
62) Biphenyl	6.463	154	3073658	150.409	ug/ml	100
84) Dichloran	8.139	206	436015	175.133	ug/ml	93
85) Pentachloronitrobenzene	8.274	237	447207	158.315	ug/ml	95
99) Diphenamid	9.339	167	2335856	154.693	ug/ml	92

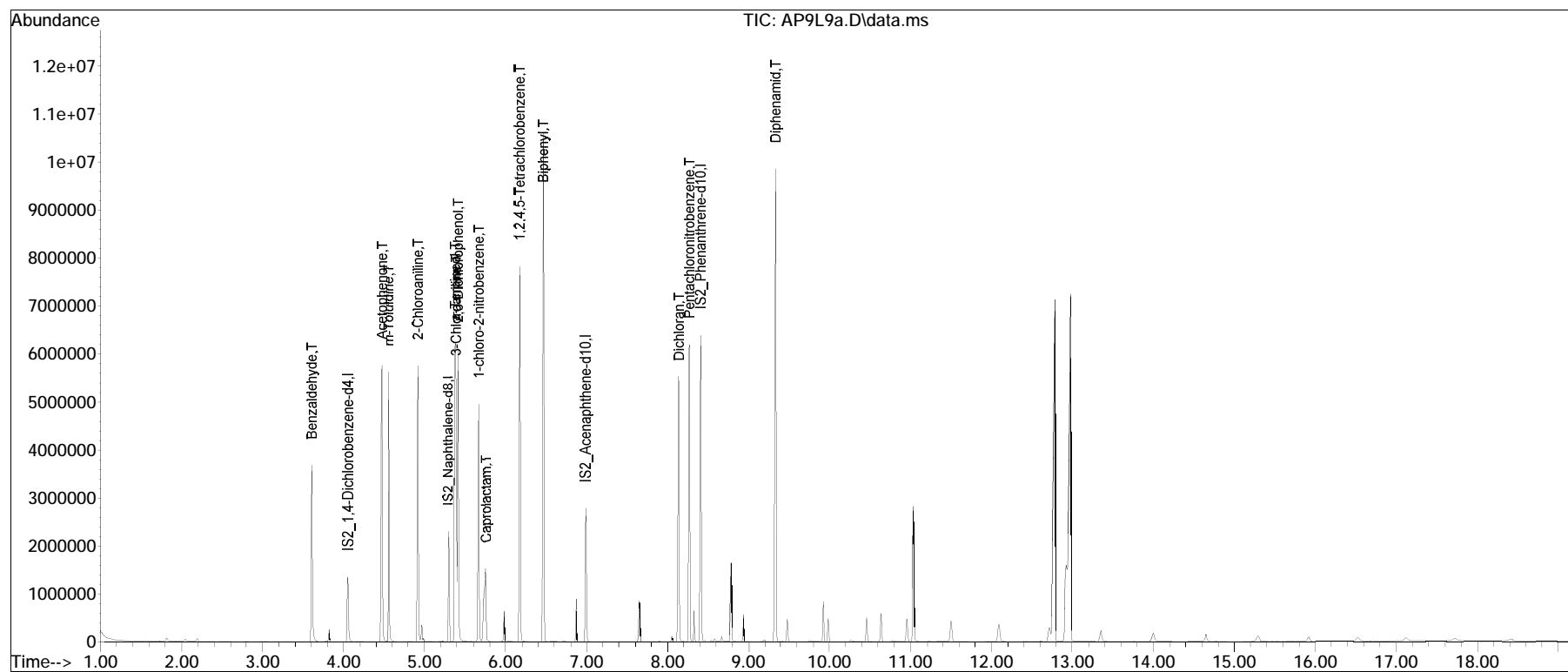
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9L9a.D
 Acq On : 1 Jun 2023 7:34 am
 Operator : SV109:jg
 Sample : IL12,32,,AP9L150 Lot# 10066
 Misc : WG1788374,,
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 07 13:20:20 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : AP9L9a.D Operator : SV109:jg
Date Inj'd : 6/1/2023 7:34 am Instrument : SV109
Sample : IL12,32,,AP9L150 Lot# 1006Quant Date : 6/7/2023 1:20 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9L8.D
 Acq On : 1 Jun 2023 8:31 am
 Operator : SV109:jg
 Sample : IL13,32,,AP9L100 Lot# 10067
 Misc : WG1788374,,
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 13:20:05 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.046	152	195670	40.000	ug/ml	0.00
Standard Area 3 = 188873			Recovery	=	103.60%	
55) IS2_Naphthalene-d8	5.293	136	807392	40.000	ug/ml	0.00
Standard Area 3 = 764198			Recovery	=	105.65%	
83) IS2_Acenaphthene-d10	6.992	164	445138	40.000	ug/ml	0.00
Standard Area 3 = 424819			Recovery	=	104.78%	
98) IS2_Phenanthrene-d10	8.416	188	1005712	40.000	ug/ml	0.00
Standard Area 3 = 930263			Recovery	=	108.11%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.599	105	401757	99.760	ug/ml	97
29) Acetophenone	4.469	105	943589	107.559	ug/ml	93
30) m-Toluidine	4.551	106	762413	102.559	ug/ml	99
31) 2-Chloroaniline	4.910	127	831967	104.204	ug/ml	99
56) a-Terpineol	5.375	59	528138	100.075	ug/ml#	82
57) 3-Chloroaniline	5.387	65	265927	100.656	ug/ml	92
58) 2,6-Dichlorophenol	5.410	162	558574	103.016	ug/ml#	89
59) 1-chloro-2-nitrobenzene	5.663	111	297445	103.623	ug/ml	97
60) Caprolactam	5.740	55	300007	99.866	ug/ml#	80
61) 1,2,4,5-Tetrachloroben...	6.169	216	700802	100.593	ug/ml	99
62) Biphenyl	6.463	154	1665389	100.715	ug/ml	100
84) Dichloran	8.134	206	230993	114.351	ug/ml	96
85) Pentachloronitrobenzene	8.275	237	250889	109.464	ug/ml	95
99) Diphenamid	9.339	167	1304418	101.406	ug/ml	92

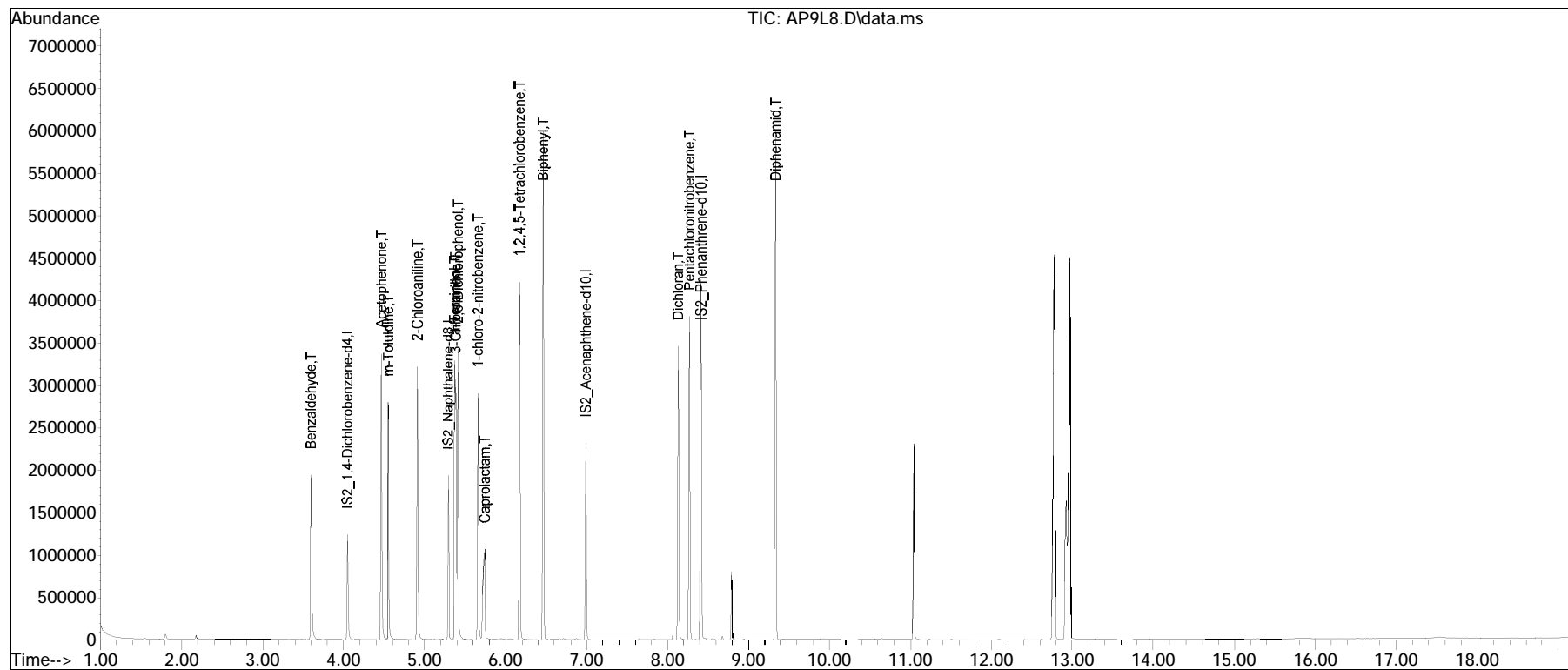
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9L8.D
 Acq On : 1 Jun 2023 8:31 am
 Operator : SV109:jg
 Sample : IL13,32,,AP9L100 Lot# 10067
 Misc : WG1788374,,
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 13:20:05 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : AP9L8.D Operator : SV109:jg
Date Inj'd : 6/1/2023 8:31 am Instrument : SV109
Sample : IL13,32,,AP9L100 Lot# 1006Quant Date : 6/7/2023 1:19 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9L7.D
 Acq On : 1 Jun 2023 8:55 am
 Operator : SV109:jg
 Sample : IL14,32,,AP9L50 Lot# 10068
 Misc : WG1788374,,
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 07 13:19:45 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.051	152	188873	40.000	ug/ml	0.00
Standard Area 3 = 188873			Recovery	=	100.00%	
55) IS2_Naphthalene-d8	5.292	136	764198	40.000	ug/ml	0.00
Standard Area 3 = 764198			Recovery	=	100.00%	
83) IS2_Acenaphthene-d10	6.986	164	424819	40.000	ug/ml	0.00
Standard Area 3 = 424819			Recovery	=	100.00%	
98) IS2_Phenanthrene-d10	8.410	188	930263	40.000	ug/ml	0.00
Standard Area 3 = 930263			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.604	105	204656	52.647	ug/ml	97
29) Acetophenone	4.469	105	440466	52.015	ug/ml	95
30) m-Toluidine	4.557	106	377997	52.678	ug/ml	98
31) 2-Chloroaniline	4.910	127	392612	50.945	ug/ml	99
56) a-Terpineol	5.369	59	253897	50.829	ug/ml#	81
57) 3-Chloroaniline	5.386	65	130704	52.269	ug/ml	91
58) 2,6-Dichlorophenol	5.410	162	263636	51.370	ug/ml#	88
59) 1-chloro-2-nitrobenzene	5.663	111	140068	51.555	ug/ml	97
60) Caprolactam	5.722	55	143368	50.422	ug/ml#	81
61) 1,2,4,5-Tetrachloroben...	6.169	216	330911	50.184	ug/ml	99
62) Biphenyl	6.457	154	788403	50.374	ug/ml	100
84) Dichloran	8.127	206	104088	53.992	ug/ml	96
85) Pentachloronitrobenzene	8.269	237	113165	51.736	ug/ml	96
99) Diphenamid	9.333	167	611448	51.390	ug/ml	93

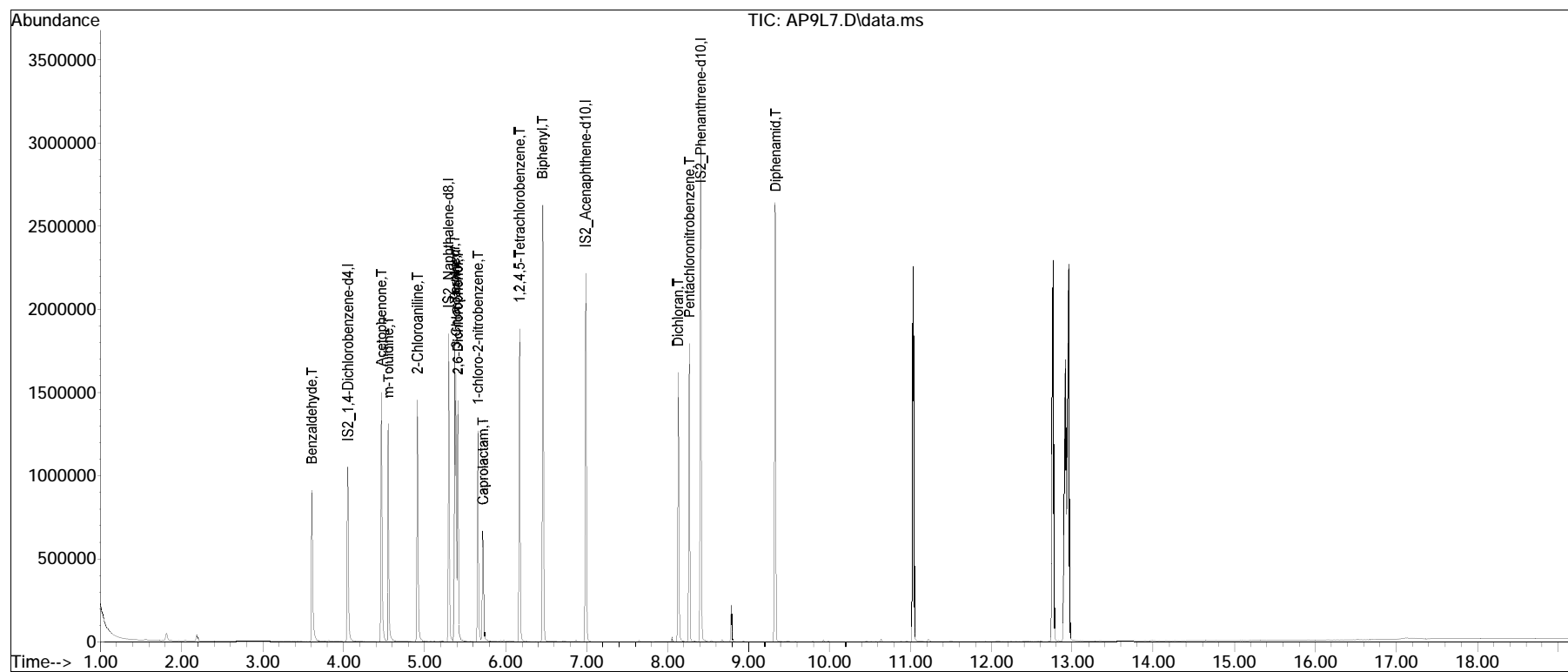
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9L7.D
 Acq On : 1 Jun 2023 8:55 am
 Operator : SV109:jg
 Sample : IL14,32,,AP9L50 Lot# 10068
 Misc : WG1788374,,
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 07 13:19:45 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : AP9L7.D Operator : SV109:jg
Date Inj'd : 6/1/2023 8:55 am Instrument : SV109
Sample : IL14,32,,AP9L50 Lot# 10068Quant Date : 6/7/2023 1:19 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9L6.D
 Acq On : 1 Jun 2023 9:19 am
 Operator : SV109:jg
 Sample : IL15,32,,AP9L20 Lot# 10069
 Misc : WG1788374,,
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 07 13:19:30 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.051	152	201483	40.000	ug/ml	0.00
Standard Area 3 = 188873			Recovery	=	106.68%	
55) IS2_Naphthalene-d8	5.293	136	807475	40.000	ug/ml	0.00
Standard Area 3 = 764198			Recovery	=	105.66%	
83) IS2_Acenaphthene-d10	6.987	164	456524	40.000	ug/ml	0.00
Standard Area 3 = 424819			Recovery	=	107.46%	
98) IS2_Phenanthrene-d10	8.410	188	997816	40.000	ug/ml	0.00
Standard Area 3 = 930263			Recovery	=	107.26%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.610	105	91359	22.031	ug/ml	95
29) Acetophenone	4.475	105	187390	20.744	ug/ml	94
30) m-Toluidine	4.557	106	165520	21.623	ug/ml	98
31) 2-Chloroaniline	4.910	127	170108	20.691	ug/ml	99
56) a-Terpineol	5.369	59	111356	21.098	ug/ml#	84
57) 3-Chloroaniline	5.387	65	56160	21.255	ug/ml	95
58) 2,6-Dichlorophenol	5.410	162	113165	20.868	ug/ml#	87
59) 1-chloro-2-nitrobenzene	5.663	111	60022	20.908	ug/ml	97
60) Caprolactam	5.716	55	61230	20.380	ug/ml#	81
61) 1,2,4,5-Tetrachloroben...	6.169	216	143104	20.539	ug/ml	99
62) Biphenyl	6.457	154	343802	20.789	ug/ml	99
84) Dichloran	8.128	206	42217	20.378	ug/ml	97
85) Pentachloronitrobenzene	8.269	237	47478	20.198	ug/ml	96
99) Diphenamid	9.328	167	263209	20.624	ug/ml	94

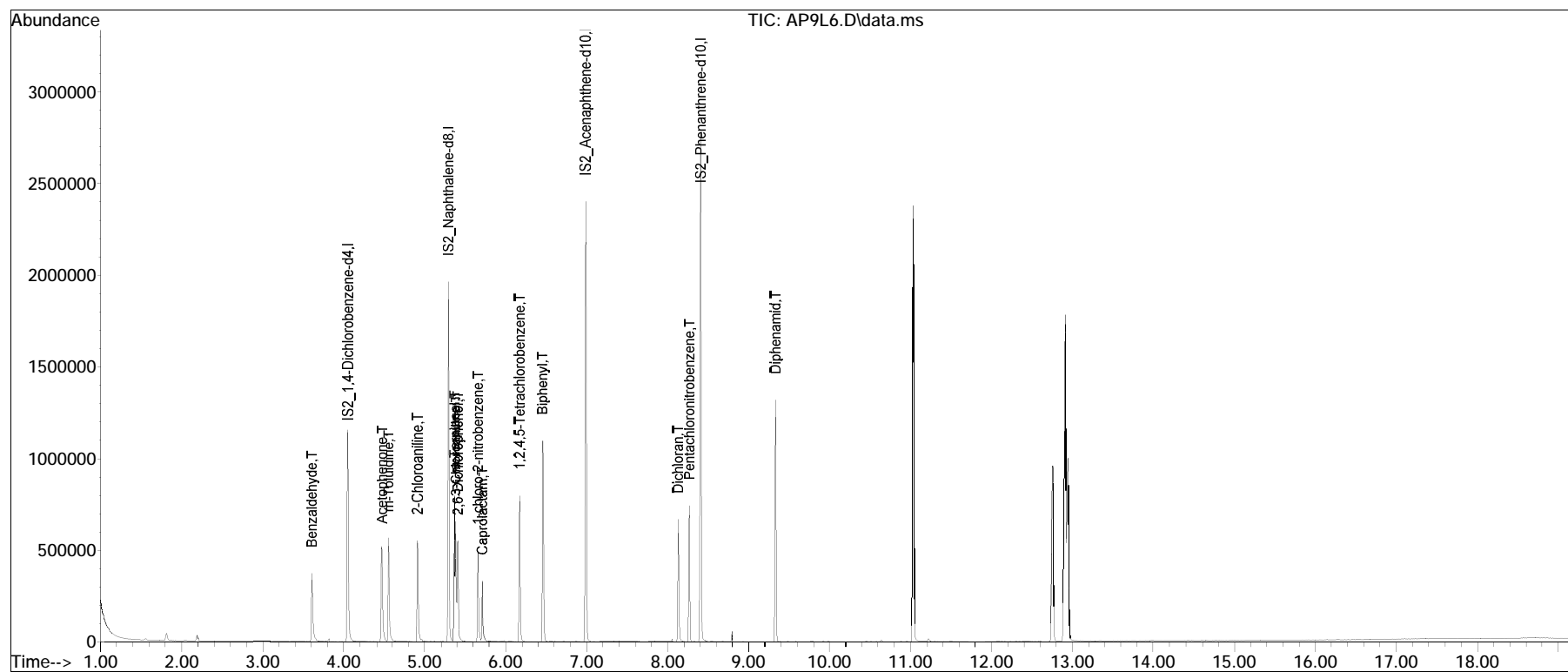
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
Data File : AP9L6.D
Acq On : 1 Jun 2023 9:19 am
Operator : SV109:jg
Sample : IL15,32,,AP9L20 Lot# 10069
Misc : WG1788374,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 07 13:19:30 2023
Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 07 12:55:51 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : AP9L6.D Operator : SV109:jg
Date Inj'd : 6/1/2023 9:19 am Instrument : SV109
Sample : IL15,32,,AP9L20 Lot# 10069Quant Date : 6/7/2023 1:19 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9L5.D
 Acq On : 1 Jun 2023 9:43 am
 Operator : SV109:jg
 Sample : IL16,32,,AP9L10 Lot# 10070
 Misc : WG1788374,,
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 07 13:19:17 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.045	152	282084	40.000	ug/ml	0.00
Standard Area 3 = 188873			Recovery	=	149.35%	
55) IS2_Naphthalene-d8	5.292	136	1084440	40.000	ug/ml	0.00
Standard Area 3 = 764198			Recovery	=	141.91%	
83) IS2_Acenaphthene-d10	6.986	164	597983	40.000	ug/ml	0.00
Standard Area 3 = 424819			Recovery	=	140.76%	
98) IS2_Phenanthrene-d10	8.410	188	1306171	40.000	ug/ml	0.00
Standard Area 3 = 930263			Recovery	=	140.41%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.610	105	63137	10.875	ug/ml	99
29) Acetophenone	4.475	105	123610	9.774	ug/ml	95
30) m-Toluidine	4.557	106	110475	10.308	ug/ml	99
31) 2-Chloroaniline	4.916	127	112793	9.800	ug/ml	99
56) a-Terpineol	5.369	59	72367	10.209	ug/ml#	85
57) 3-Chloroaniline	5.387	65	38073	10.729	ug/ml	92
58) 2,6-Dichlorophenol	5.410	162	75387	10.351	ug/ml#	88
59) 1-chloro-2-nitrobenzene	5.663	111	39012	10.119	ug/ml	97
60) Caprolactam	5.710	55	40337	9.997	ug/ml#	84
61) 1,2,4,5-Tetrachloroben...	6.169	216	94104	10.057	ug/ml	99
62) Biphenyl	6.457	154	222457	10.016	ug/ml	99
84) Dichloran	8.133	206	25773	9.498	ug/ml	99
85) Pentachloronitrobenzene	8.269	237	29873	9.702	ug/ml	95
99) Diphenamid	9.328	167	168816	10.105	ug/ml	94

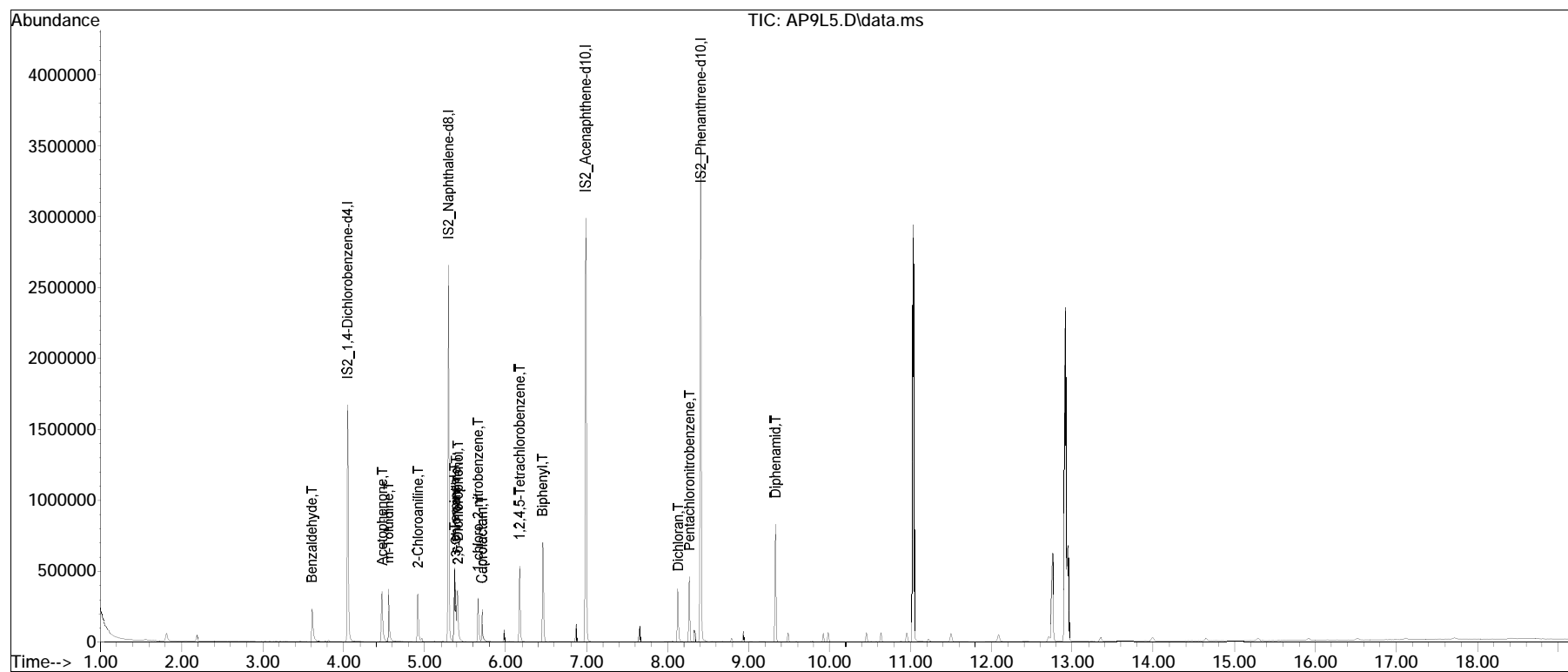
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9L5.D
 Acq On : 1 Jun 2023 9:43 am
 Operator : SV109:jg
 Sample : IL16,32,,AP9L10 Lot# 10070
 Misc : WG1788374,,
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 07 13:19:17 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : AP9L5.D Operator : SV109:jg
Date Inj'd : 6/1/2023 9:43 am Instrument : SV109
Sample : IL16,32,,AP9L10 Lot# 10070Quant Date : 6/7/2023 1:19 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9L4.D
 Acq On : 1 Jun 2023 10:07 am
 Operator : SV109:jg
 Sample : IL17,32,,AP9L5 Lot# 10071
 Misc : WG1788374,,
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 07 13:19:02 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.051	152	203683	40.000	ug/ml	0.00
Standard Area 3 = 188873			Recovery	=	107.84%	
55) IS2_Naphthalene-d8	5.292	136	797893	40.000	ug/ml	0.00
Standard Area 3 = 764198			Recovery	=	104.41%	
83) IS2_Acenaphthene-d10	6.986	164	442720	40.000	ug/ml	0.00
Standard Area 3 = 424819			Recovery	=	104.21%	
98) IS2_Phenanthrene-d10	8.410	188	986922	40.000	ug/ml	0.00
Standard Area 3 = 930263			Recovery	=	106.09%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.622	105	21281	5.076	ug/ml	96
29) Acetophenone	4.481	105	43272	4.739	ug/ml	95
30) m-Toluidine	4.563	106	37553	4.853	ug/ml	99
31) 2-Chloroaniline	4.916	127	39802	4.789	ug/ml	99
56) a-Terpineol	5.369	59	25452	4.880	ug/ml#	79
57) 3-Chloroaniline	5.392	65	13625	5.219	ug/ml	91
58) 2,6-Dichlorophenol	5.410	162	25176	4.698	ug/ml#	85
59) 1-chloro-2-nitrobenzene	5.669	111	12984	4.577	ug/ml	96
60) Caprolactam	5.710	55	14556	4.903	ug/ml#	79
61) 1,2,4,5-Tetrachloroben...	6.169	216	34139	4.959	ug/ml	99
62) Biphenyl	6.463	154	81006	4.957	ug/ml	100
84) Dichloran	8.133	206	8451	4.206	ug/ml	97
85) Pentachloronitrobenzene	8.269	237	10287	4.513	ug/ml	96
99) Diphenamid	9.327	167	61160	4.845	ug/ml	94

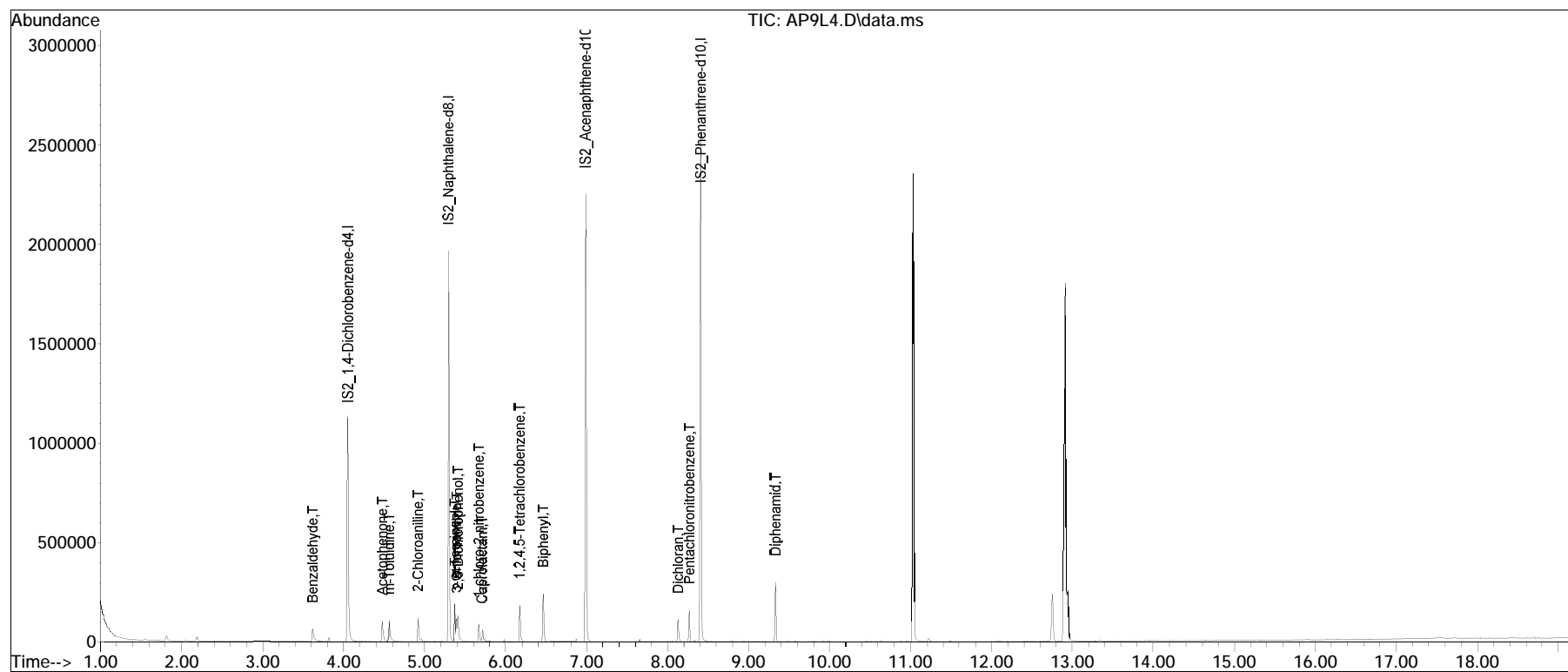
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9L4.D
 Acq On : 1 Jun 2023 10:07 am
 Operator : SV109:jg
 Sample : IL17,32,,AP9L5 Lot# 10071
 Misc : WG1788374,,
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 07 13:19:02 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : AP9L4.D Operator : SV109:jg
Date Inj'd : 6/1/2023 10:07 am Instrument : SV109
Sample : IL17,32,,AP9L5 Lot# 10071 Quant Date : 6/7/2023 1:18 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9L3.D
 Acq On : 1 Jun 2023 10:32 am
 Operator : SV109:jg
 Sample : IL18,32,,AP9L3 Lot# 10072
 Misc : WG1788374,,
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 07 13:18:49 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.045	152	234031	40.000	ug/ml	0.00
Standard Area 3 = 188873			Recovery	=	123.91%	
55) IS2_Naphthalene-d8	5.292	136	914618	40.000	ug/ml	0.00
Standard Area 3 = 764198			Recovery	=	119.68%	
83) IS2_Acenaphthene-d10	6.986	164	516288	40.000	ug/ml	0.00
Standard Area 3 = 424819			Recovery	=	121.53%	
98) IS2_Phenanthrene-d10	8.410	188	1163952	40.000	ug/ml	0.00
Standard Area 3 = 930263			Recovery	=	125.12%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.622	105	14231	2.954	ug/ml	100
29) Acetophenone	4.481	105	27741	2.644	ug/ml	97
30) m-Toluidine	4.563	106	25017	2.814	ug/ml	99
31) 2-Chloroaniline	4.916	127	26798	2.806	ug/ml	98
56) a-Terpineol	5.369	59	17584	2.941	ug/ml#	83
57) 3-Chloroaniline	5.392	65	8849	2.957	ug/ml	93
58) 2,6-Dichlorophenol	5.410	162	17324	2.820	ug/ml#	85
59) 1-chloro-2-nitrobenzene	5.669	111	8974	2.760	ug/ml	94
60) Caprolactam	5.716	55	9974	2.931	ug/ml#	81
61) 1,2,4,5-Tetrachloroben...	6.169	216	22798	2.889	ug/ml	98
62) Biphenyl	6.463	154	55267	2.950	ug/ml	99
84) Dichloran	8.133	206	5617	2.397	ug/ml	95
85) Pentachloronitrobenzene	8.269	237	6850	2.577	ug/ml	95
99) Diphenamid	9.327	167	41475	2.786	ug/ml	94

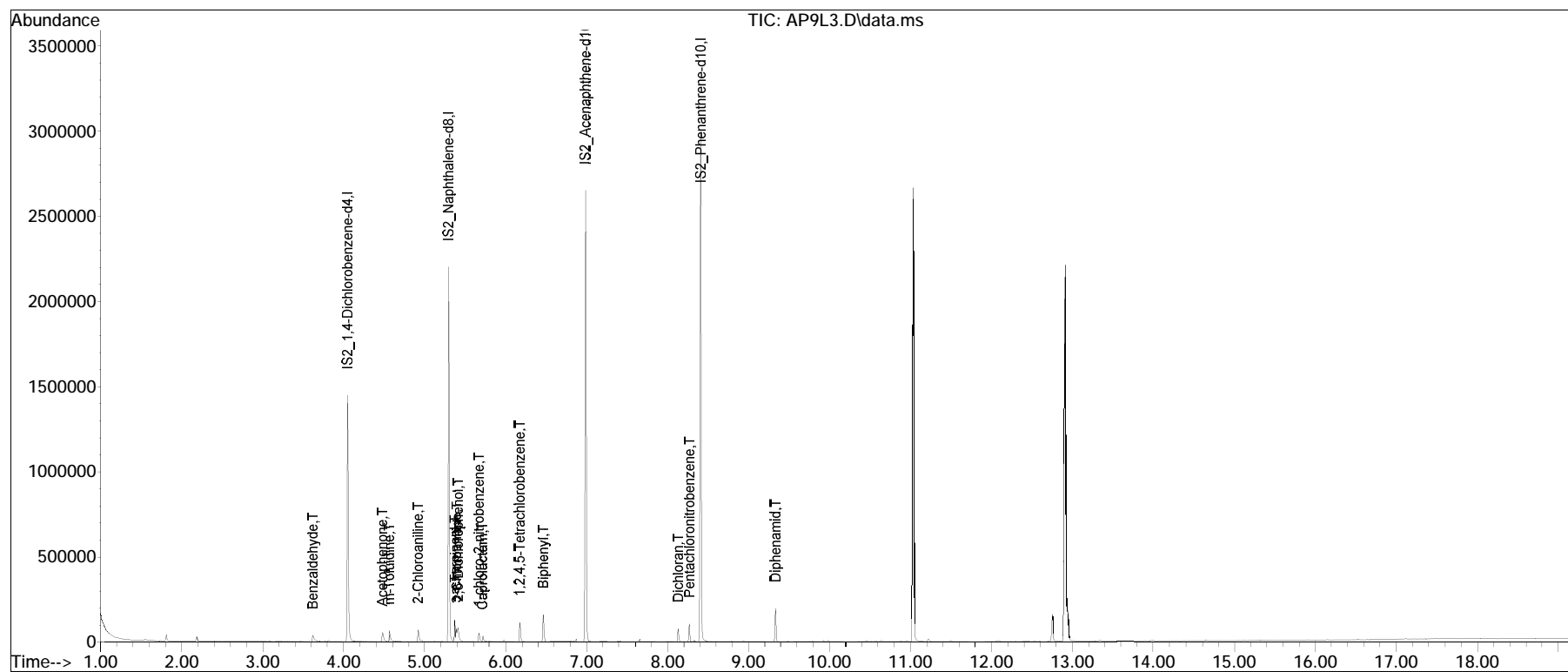
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
Data File : AP9L3.D
Acq On : 1 Jun 2023 10:32 am
Operator : SV109:jg
Sample : IL18,32,,AP9L3 Lot# 10072
Misc : WG1788374,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 07 13:18:49 2023
Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 07 12:55:51 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : AP9L3.D Operator : SV109:jg
Date Inj'd : 6/1/2023 10:32 am Instrument : SV109
Sample : IL18,32,,AP9L3 Lot# 10072 Quant Date : 6/7/2023 1:18 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9L2.D
 Acq On : 1 Jun 2023 10:56 am
 Operator : SV109:jg
 Sample : IL19,32,,AP9L2 Lot# 10073
 Misc : WG1788374,,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 07 13:18:29 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.046	152	196383	40.000	ug/ml	0.00
Standard Area 3 = 188873			Recovery	=	103.98%	
55) IS2_Naphthalene-d8	5.293	136	797664	40.000	ug/ml	0.00
Standard Area 3 = 764198			Recovery	=	104.38%	
83) IS2_Acenaphthene-d10	6.987	164	451322	40.000	ug/ml	0.00
Standard Area 3 = 424819			Recovery	=	106.24%	
98) IS2_Phenanthrene-d10	8.410	188	1014900	40.000	ug/ml	0.00
Standard Area 3 = 930263			Recovery	=	109.10%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.628	105	7788	1.927	ug/ml	97
29) Acetophenone	4.487	105	15736	1.787	ug/ml	98
30) m-Toluidine	4.569	106	14323	1.920	ug/ml	99
31) 2-Chloroaniline	4.922	127	15418	1.924	ug/ml	99
56) a-Terpineol	5.369	59	10238	1.964	ug/ml#	82
57) 3-Chloroaniline	5.393	65	4665	1.787	ug/ml	93
58) 2,6-Dichlorophenol	5.416	162	9639	1.799	ug/ml#	86
59) 1-chloro-2-nitrobenzene	5.675	111	5239	1.847	ug/ml	93
60) Caprolactam	5.722	55	6362	2.144	ug/ml#	87
61) 1,2,4,5-Tetrachloroben...	6.175	216	13276	1.929	ug/ml	97
62) Biphenyl	6.463	154	31935	1.955	ug/ml	99
84) Dichloran	8.134	206	3167	1.546	ug/ml	96
85) Pentachloronitrobenzene	8.269	237	3839	1.652	ug/ml	94
99) Diphenamid	9.328	167	25637	1.975	ug/ml	91

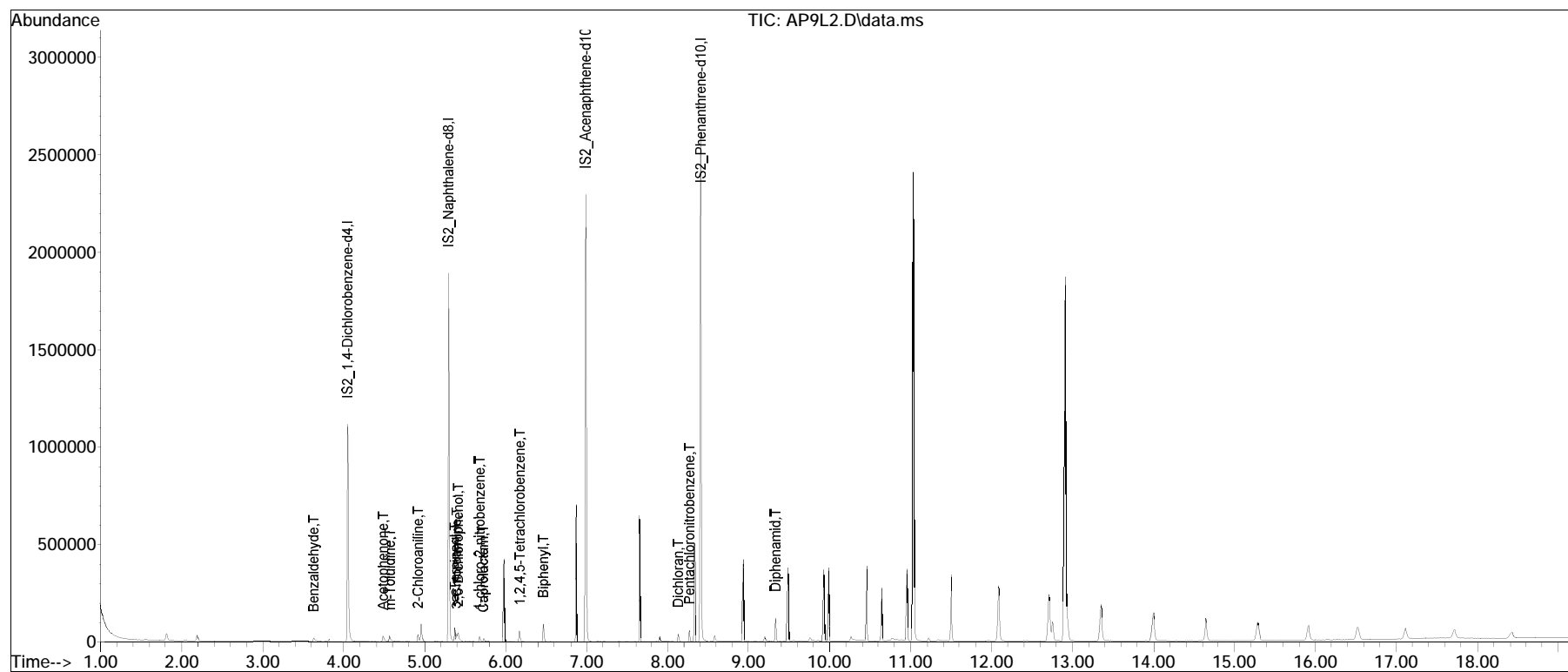
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
Data File : AP9L2.D
Acq On : 1 Jun 2023 10:56 am
Operator : SV109:jg
Sample : IL19,32,,AP9L2 Lot# 10073
Misc : WG1788374,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 07 13:18:29 2023
Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 07 12:55:51 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : AP9L2.D Operator : SV109:jg
Date Inj'd : 6/1/2023 10:56 am Instrument : SV109
Sample : IL19,32,,AP9L2 Lot# 10073 Quant Date : 6/7/2023 1:18 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9L1.D
 Acq On : 1 Jun 2023 11:20 am
 Operator : SV109:jg
 Sample : IL20,32,,AP9L1 Lot# 10074
 Misc : WG1788374,,
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 07 13:17:39 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.046	152	184105	40.000	ug/ml	0.00
Standard Area 3 = 188873			Recovery	=	97.48%	
55) IS2_Naphthalene-d8	5.293	136	721575	40.000	ug/ml	0.00
Standard Area 3 = 764198			Recovery	=	94.42%	
83) IS2_Acenaphthene-d10	6.987	164	413349	40.000	ug/ml	0.00
Standard Area 3 = 424819			Recovery	=	97.30%	
98) IS2_Phenanthrene-d10	8.410	188	929843	40.000	ug/ml	0.00
Standard Area 3 = 930263			Recovery	=	99.95%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.646	105	3055	0.806	ug/ml	95
29) Acetophenone	4.499	105	6333	0.767	ug/ml	95
30) m-Toluidine	4.575	106	5718	0.818	ug/ml	100
31) 2-Chloroaniline	4.922	127	7179	0.956	ug/ml	95
56) a-Terpineol	5.369	59	4469	0.948	ug/ml#	83
57) 3-Chloroaniline	5.398	65	2159	0.914	ug/ml	94
58) 2,6-Dichlorophenol	5.422	162	4166	0.860	ug/ml#	86
59) 1-chloro-2-nitrobenzene	5.681	111	2112	0.823	ug/ml	91
60) Caprolactam	5.734	55	3289	1.225	ug/ml	92
61) 1,2,4,5-Tetrachloroben...	6.175	216	5895	0.947	ug/ml	99
62) Biphenyl	6.463	154	14645	0.991	ug/ml	97
84) Dichloran	8.139	206	1285	0.685	ug/ml	92
85) Pentachloronitrobenzene	8.269	237	1709	0.803	ug/ml	94
99) Diphenamid	9.328	167	11233	0.945	ug/ml	94

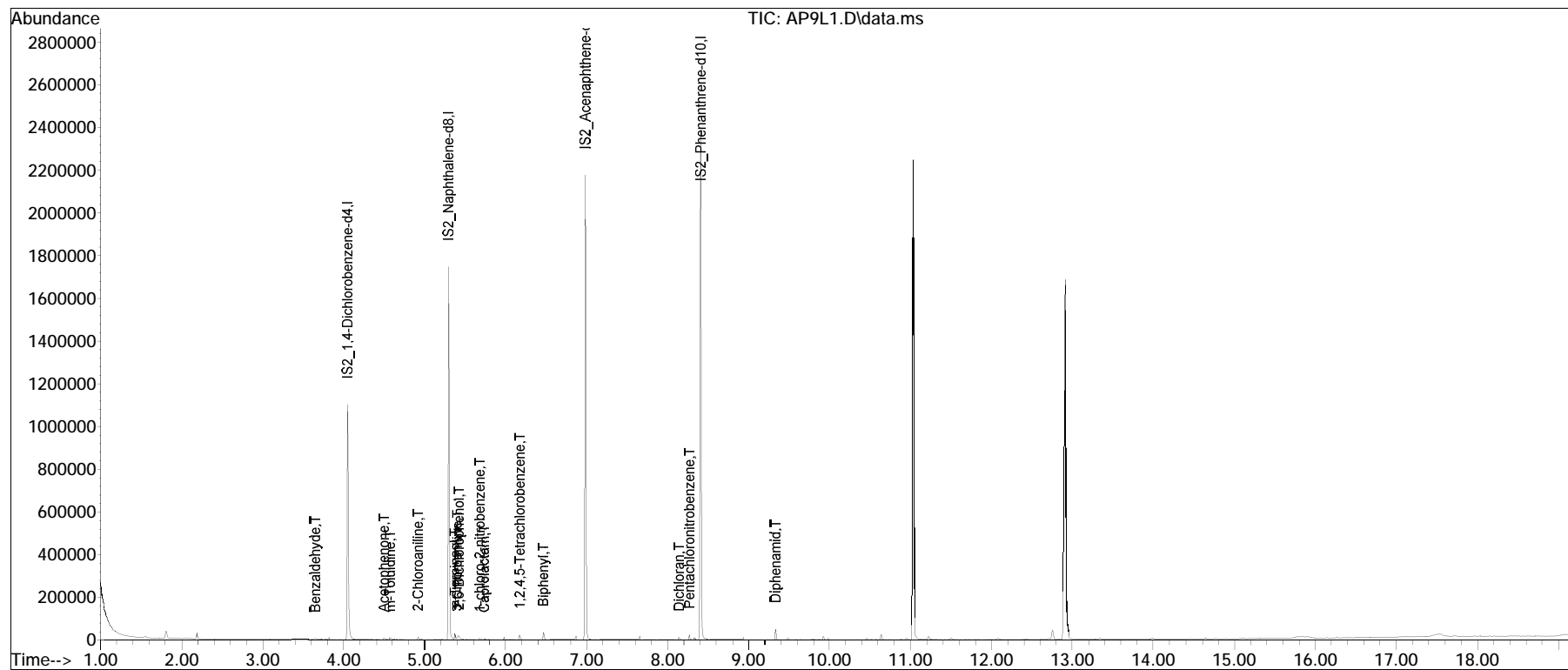
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
Data File : AP9L1.D
Acq On : 1 Jun 2023 11:20 am
Operator : SV109:jg
Sample : IL20,32,,AP9L1 Lot# 10074
Misc : WG1788374,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 07 13:17:39 2023
Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 07 12:55:51 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : AP9L1.D Operator : SV109:jg
Date Inj'd : 6/1/2023 11:20 am Instrument : SV109
Sample : IL20,32,,AP9L1 Lot# 10074 Quant Date : 6/7/2023 1:17 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNICV.D
 Acq On : 1 Jun 2023 11:45 am
 Operator : SV109:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1788374,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 07 14:37:07 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 14:37:01 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	IS1_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
2 t	n-Nitrosodimethylamine	0.738	0.731	0.9	84	0.00
3 t	Pyridine	1.187	1.114	6.1	83	-0.01
4 S	2-Fluorophenol	1.072	1.135	-5.9	87	0.00
5 T	Aniline	1.917	1.820	5.1	82	0.00
6 t	2-Chlorophenol	1.325	1.271	4.1	83	0.00
7 S	Phenol-d6	1.443	1.440	0.2	84	0.00
8 T	Phenol	1.553	1.483	4.5	83	0.00
9 T	Bis(2-chloroethyl)ether	1.245	1.189	4.5	81	0.00
10 T	1,3-Dichlorobenzene	1.450	1.380	4.8	84	0.00
11 T	1,4-Dichlorobenzene	1.484	1.422	4.2	85	0.00
12 T	1,2-Dichlorobenzene	1.430	1.359	5.0	84	0.00
13 t	Benzyl alcohol	1.107	1.099	0.7	81	0.00
14 T	Bis(2-chloroisopropyl)ether	1.645	1.530	7.0	79	0.00
15 T	2-Methylphenol	1.145	1.114	2.7	83	0.00
16 T	Hexachloroethane	0.630	0.588	6.7	82	0.00
17 T	n-Nitrosodi-n-propylamine	1.014	0.963	5.0	81	0.00
18 T	3-Methylphenol/4-Methylphen	1.201	1.194	0.6	84	0.00
19 S	Nitrobenzene-d5	1.452	1.363	6.1	79	0.00
20 T	Nitrobenzene	1.428	1.375	3.7	80	0.00
21 T	Isophorone	2.758	2.577	6.6	81	0.00
22 T	2-Nitrophenol	0.712	0.658	7.6	79	0.00
23 T	2,4-Dimethylphenol	1.327	1.284	3.2	82	0.00
24 T	Bis(2-chloroethoxy)methane	1.680	1.616	3.8	84	0.00
25 T	2,4-Dichlorophenol	1.156	1.142	1.2	84	0.00
26 T	1,2,4-Trichlorobenzene	1.309	1.260	3.7	85	0.00
35 I	IS1_Naphthalene-d8	1.000	1.000	0.0	91	0.00
36 T	Naphthalene	0.998	0.940	5.8	84	0.00
37 T	Benzoic Acid	* 50.000	41.965	16.1	77	-0.01
38 T	4-Chloroaniline	0.129	0.124	3.9	84	0.00
39 T	Hexachlorobutadiene	0.207	0.191	7.7	82	0.00
40 T	p-Chloro-m-cresol	0.311	0.299	3.9	83	0.00
41 T	2-Methylnaphthalene	0.663	0.644	2.9	85	0.00
42 T	1-Methylnaphthalene	0.254	0.231	9.1	81	0.00
43 T	Hexachlorocyclopentadiene	* 50.000	39.894	20.2	75	0.00
44 T	2,4,6-Trichlorophenol	0.217	0.218	-0.5	87	0.00
45 T	2,4,5-Trichlorophenol	0.241	0.238	1.2	85	0.00
46 S	2-Fluorobiphenyl	0.798	0.762	4.5	86	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNICV.D
 Acq On : 1 Jun 2023 11:45 am
 Operator : SV109:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1788374,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 07 14:37:07 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 14:37:01 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47 T	2-Chloronaphthalene	0.686	0.655	4.5	86	0.00
48 T	2-Nitroaniline	0.231	0.224	3.0	84	0.00
49 T	1,4-Dinitrobenzene	0.104	0.094	9.6	77	0.00
50 T	1,3-Dinitrobenzene	0.116	0.113	2.6	83	0.00
51 T	Dimethyl phthalate	0.859	0.813	5.4	86	0.00
52 T	Acenaphthylene	1.097	1.121	-2.2	92	0.00
53 T	2,6-Dinitrotoluene	0.184	0.171	7.1	84	0.00
54 T	1,2-Dinitrobenzene	0.079	0.074	6.3	84	0.00
63 I	IS1_Acenaphthene-d10	1.000	1.000	0.0	92	0.00
64 T	3-Nitroaniline	0.378	0.363	4.0	84	0.00
65 T	Acenaphthene	1.188	1.102	7.2	84	0.00
66 T	2,4-Dinitrophenol	* 50.000	41.438	17.1	77	0.00
67 T	Dibenzofuran	1.847	1.774	4.0	88	0.00
68 T	2,4-Dinitrotoluene	0.430	0.424	1.4	85	0.00
69 T	4-Nitrophenol	0.280	0.269	3.9	81	0.00
70 T	2,3,5,6-Tetrachlorophenol	0.354	0.346	2.3	85	0.00
71 T	2,3,4,6-Tetrachlorophenol	0.375	0.359	4.3	86	0.00
72 T	Diethyl phthalate	1.710	1.612	5.7	85	0.00
73 T	Fluorene	1.494	1.421	4.9	86	0.00
74 T	4-Chlorophenyl phenyl ether	0.722	0.692	4.2	86	0.00
75 T	4-Nitroaniline	0.370	0.357	3.5	88	0.00
76 T	4,6-Dinitro-o-cresol	* 50.000	46.212	7.6	86	0.00
77 T	NDPA/DPA	1.284	1.232	4.0	86	0.00
78 T	Azobenzene	1.542	1.446	6.2	85	0.00
79 S	2,4,6-Tribromophenol	0.213	0.216	-1.4	86	0.00
80 T	4-Bromophenyl phenyl ether	0.447	0.428	4.3	86	0.00
81 T	Hexachlorobenzene	0.516	0.493	4.5	87	0.00
82 T	Pentachlorophenol	* 50.000	49.674	0.7	89	0.00
88 I	IS1_Phenanthrene-d10	1.000	1.000	0.0	95	0.00
89 T	Phenanthrene	1.062	0.982	7.5	86	0.00
90 T	Anthracene	1.061	1.003	5.5	87	0.00
91 T	Carbazole	1.027	0.966	5.9	87	0.00
92 T	Di-n-butylphthalate	1.391	1.322	5.0	86	0.00
93 T	Fluoranthene	1.261	1.173	7.0	86	0.00
94 T	Benzidine	0.784	0.687	12.4	87	0.00
95 T	Pyrene	1.308	1.215	7.1	87	0.00
96 S	4-Terphenyl-d14	0.984	0.916	6.9	86	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNICV.D
 Acq On : 1 Jun 2023 11:45 am
 Operator : SV109:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1788374,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 07 14:37:07 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 14:37:01 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97 T	Butyl benzyl phthalate	0.635	0.592	6.8	84	0.00
104 I	IS1_Chrysene-d12	1.000	1.000	0.0	92	0.00
105 T	Benzo(a)anthracene	1.394	1.320	5.3	88	0.00
106 T	3,3'-Dichlorobenzidine	0.533	0.522	2.1	89	0.00
107 T	Chrysene	1.289	1.220	5.4	88	0.00
108 T	Bis(2-ethylhexyl)phthalate	1.044	1.023	2.0	87	0.00
109 T	Di-n-octylphthalate	1.841	1.772	3.7	85	0.00
110 T	Benzo(b)fluoranthene	1.333	1.215	8.9	83	0.00
111 T	Benzo(k)fluoranthene	1.216	1.231	-1.2	91	0.00
112 T	Benzo(a)pyrene	1.137	1.157	-1.8	92	0.00
113 I	IS1_Perylene-d12	1.000	1.000	0.0	94	0.00
114 T	Indeno(1,2,3-cd)pyrene	1.053	1.019	3.2	89	0.00
115 T	Dibenzo(a,h)anthracene	1.139	1.116	2.0	87	0.00
116 T	Benzo(ghi)perylene	1.149	1.101	4.2	86	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNICV.D
 Acq On : 1 Jun 2023 11:45 am
 Operator : SV109:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WGI788374,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 07 14:37:07 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 14:37:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.045	152	206010	40.000	ug/ml	0.00
Standard Area 1 = 228780			Recovery =	90.05%		
35) IS1_Naphthalene-d8	5.292	136	840218	40.000	ug/ml	0.00
Standard Area 1 = 921334			Recovery =	91.20%		
63) IS1_Acenaphthene-d10	6.992	164	464509	40.000	ug/ml	0.00
Standard Area 1 = 502804			Recovery =	92.38%		
88) IS1_Phenanthrene-d10	8.410	188	1010625	40.000	ug/ml	0.00
Standard Area 1 = 1064896			Recovery =	94.90%		
104) IS1_Chrysene-d12	11.039	240	891812	40.000	ug/ml	0.00
Standard Area 1 = 968465			Recovery =	92.09%		
113) IS1_Perylene-d12	12.910	264	954258	40.000	ug/ml	0.00
Standard Area 1 = 1019256			Recovery =	93.62%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.728	112	292305	52.949	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery =	105.90%		
7) Phenol-d6	3.769	99	370877	49.887	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery =	99.77%		
19) Nitrobenzene-d5	4.610	82	350873	46.934	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	187.74%#		
46) 2-Fluorobiphenyl	6.375	172	799915	47.692	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	190.77%#		
79) 2,4,6-Tribromophenol	7.757	330	125544	50.662	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery =	101.32%		
96) 4-Terphenyl-d14	9.986	244	1156664	46.504	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery =	186.02%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.346	74	188287	49.559	ug/ml#	90
3) Pyridine	1.357	79	286765	46.926	ug/ml#	79
5) Aniline	3.728	93	468564	47.453	ug/ml#	60
6) 2-Chlorophenol	3.840	128	327284	47.946	ug/ml	99
8) Phenol	3.781	94	381765	47.738	ug/ml#	64
9) Bis(2-chloroethyl)ether	3.828	93	306267	47.775	ug/ml	86
10) 1,3-Dichlorobenzene	3.987	146	355245	47.585	ug/ml	98
11) 1,4-Dichlorobenzene	4.063	146	366268	47.921	ug/ml	98
12) 1,2-Dichlorobenzene	4.210	146	349884	47.503	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNICV.D
 Acq On : 1 Jun 2023 11:45 am
 Operator : SV109:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1788374,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 07 14:37:07 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 14:37:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.228	79	283129	49.649	ug/ml	94
14) Bis(2-chloroisopropyl)...	4.369	45	393961	46.501	ug/ml#	74
15) 2-Methylphenol	4.375	108	286933	48.677	ug/ml	99
16) Hexachloroethane	4.534	117	151454	46.702	ug/ml	95
17) n-Nitrosodi-n-propylamine	4.498	70	248017	47.511	ug/ml	97
18) 3-Methylphenol/4-Methy...	4.539	108	307547	49.735	ug/ml	98
20) Nitrobenzene	4.628	77	354052	48.126	ug/ml	96
21) Isophorone	4.875	82	663701	46.729	ug/ml	98
22) 2-Nitrophenol	4.945	139	169542	46.245	ug/ml#	96
23) 2,4-Dimethylphenol	5.045	107	330579	48.353	ug/ml	94
24) Bis(2-chloroethoxy)met...	5.128	93	416232	48.100	ug/ml#	96
25) 2,4-Dichlorophenol	5.192	162	294084	49.402	ug/ml	99
26) 1,2,4-Trichlorobenzene	5.257	180	324523	48.143	ug/ml	99
36) Naphthalene	5.316	128	986872	47.053	ug/ml	100
37) Benzoic Acid	5.222	105	233869	41.965	ug/ml	97
38) 4-Chloroaniline	5.404	65	130468	48.146	ug/ml	95
39) Hexachlorobutadiene	5.469	225	200274	45.964	ug/ml	99
40) p-Chloro-m-cresol	5.928	107	313652	47.949	ug/ml	97
41) 2-Methylnaphthalene	5.998	142	676697	48.559	ug/ml	98
42) 1-Methylnaphthalene	6.086	115	242119	45.469	ug/ml	81
43) Hexachlorocyclopentadiene	6.163	237	156286	39.894	ug/ml	99
44) 2,4,6-Trichlorophenol	6.298	196	228989	50.206	ug/ml	100
45) 2,4,5-Trichlorophenol	6.333	196	250296	49.525	ug/ml	99
47) 2-Chloronaphthalene	6.463	162	688438	47.795	ug/ml	100
48) 2-Nitroaniline	6.586	138	235106	48.536	ug/ml	97
49) 1,4-Dinitrobenzene	6.739	168	99150	45.224	ug/ml	100
50) 1,3-Dinitrobenzene	6.816	168	118337	48.442	ug/ml	99
51) Dimethyl phthalate	6.798	163	853572	47.299	ug/ml	100
52) Acenaphthylene	6.851	152	1177666	51.095	ug/ml	100
53) 2,6-Dinitrotoluene	6.839	165	180006	46.660	ug/ml#	75
54) 1,2-Dinitrobenzene	6.881	168	77963	47.133	ug/ml#	22
64) 3-Nitroaniline	6.992	138	210663	48.043	ug/ml#	93
65) Acenaphthene	7.022	154	639767	46.356	ug/ml	100
66) 2,4-Dinitrophenol	7.110	184	86267	41.438	ug/ml	96
67) Dibenzofuran	7.192	168	1030236	48.024	ug/ml	93
68) 2,4-Dinitrotoluene	7.233	165	246201	49.288	ug/ml	87
69) 4-Nitrophenol	7.216	65	156175	48.103	ug/ml#	1
70) 2,3,5,6-Tetrachlorophenol	7.292	232	200999	48.834	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNICV.D
 Acq On : 1 Jun 2023 11:45 am
 Operator : SV109:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1788374,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 07 14:37:07 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 14:37:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	7.333	232	208456	47.884	ug/ml	100
72) Diethyl phthalate	7.480	149	935775	47.135	ug/ml	99
73) Fluorene	7.522	166	824807	47.529	ug/ml	99
74) 4-Chlorophenyl phenyl ...	7.545	204	401641	47.879	ug/ml	100
75) 4-Nitroaniline	7.580	138	207545	48.337	ug/ml	84
76) 4,6-Dinitro-o-cresol	7.628	198	121582	46.212	ug/ml#	90
77) NDPA/DPA	7.669	169	715333	47.980	ug/ml	99
78) Azobenzene	7.698	77	839396	46.862	ug/ml	98
80) 4-Bromophenyl phenyl e...	8.010	248	248464	47.816	ug/ml	99
81) Hexachlorobenzene	8.057	284	286139	47.720	ug/ml	98
82) Pentachlorophenol	8.263	266	140889	49.674	ug/ml	99
89) Phenanthrene	8.433	178	1240855	46.258	ug/ml	100
90) Anthracene	8.480	178	1267480	47.289	ug/ml	100
91) Carbazole	8.657	167	1220466	47.055	ug/ml	99
92) Di-n-butylphthalate	9.063	149	1670609	47.542	ug/ml	99
93) Fluoranthene	9.574	202	1481983	46.528	ug/ml#	96
94) Benzidine	9.745	184	867612	43.824	ug/ml	98
95) Pyrene	9.780	202	1534337	46.443	ug/ml	99
97) Butyl benzyl phthalate	10.510	149	748400	46.658	ug/ml	100
105) Benzo(a)anthracene	11.027	228	1471235	47.338	ug/ml	100
106) 3,3'-Dichlorobenzidine	11.039	252	582015	49.008	ug/ml	100
107) Chrysene	11.063	228	1359870	47.333	ug/ml	100
108) Bis(2-ethylhexyl)phtha...	11.210	149	1140312	49.002	ug/ml	98
109) Di-n-octylphthalate	12.068	149	1975854	48.147	ug/ml#	94
110) Benzo(b)fluoranthene	12.392	252	1354069	45.572	ug/ml	97
111) Benzo(k)fluoranthene	12.433	252	1371741	50.593	ug/ml	98
112) Benzo(a)pyrene	12.827	252	1289481	50.875	ug/ml	97
114) Indeno(1,2,3-cd)pyrene	14.409	276	1215224	48.373	ug/ml	96
115) Dibenzo(a,h)anthracene	14.462	278	1330701	48.977	ug/ml	96
116) Benzo(ghi)perylene	14.762	276	1313843	47.933	ug/ml	95

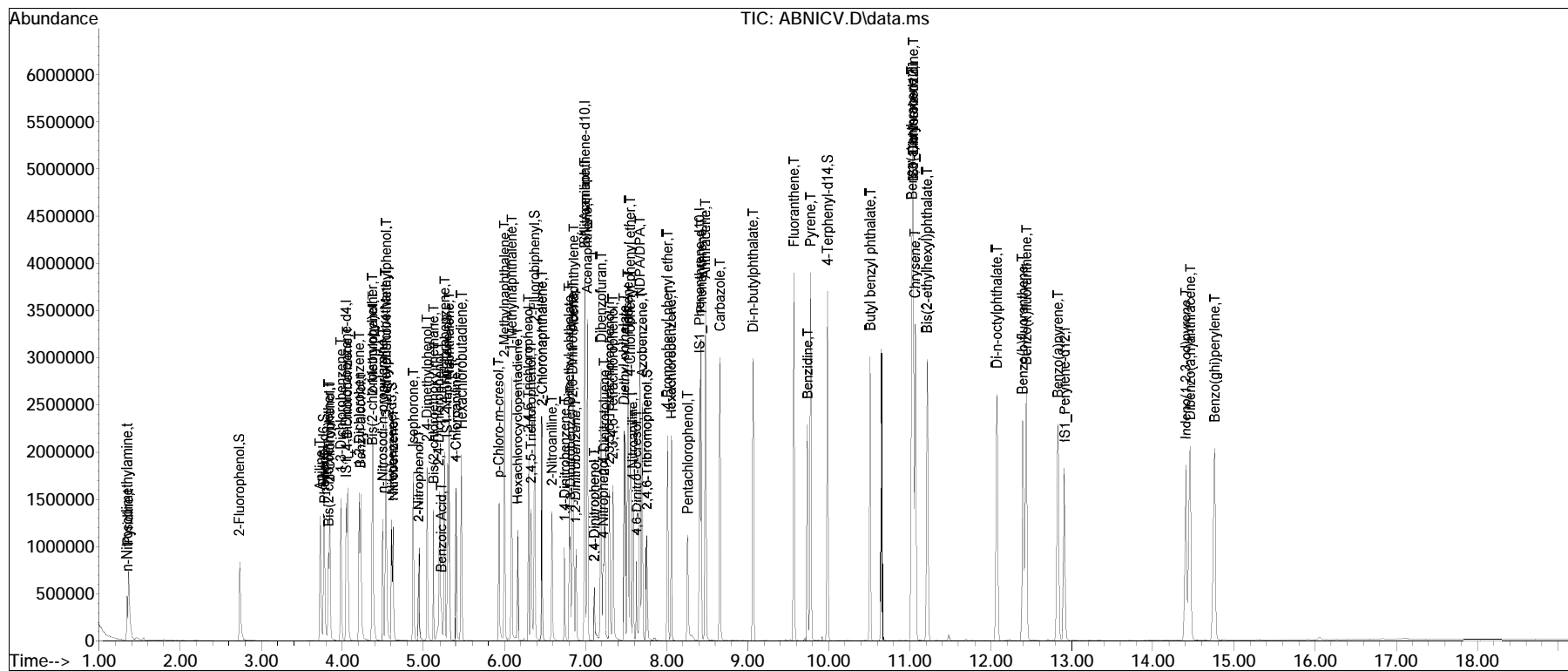
(#) = qualifier out of range (m) = manual integration (+) = signals summed

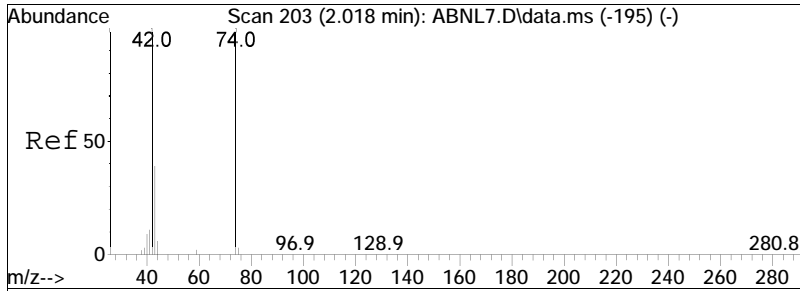
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ABNICV.D
 Acq On : 1 Jun 2023 11:45 am
 Operator : SV109:jg
 Sample : CQICV1,32,,ABNICV Lot# 10003
 Misc : WG1788374,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 07 14:37:07 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 14:37:01 2023
 Response via : Initial Calibration

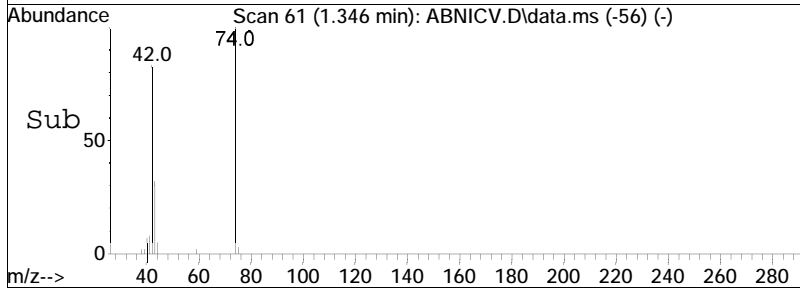
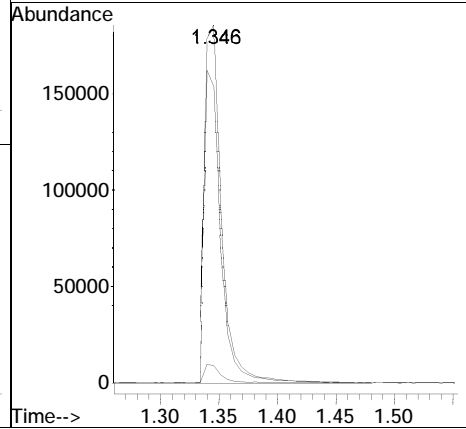
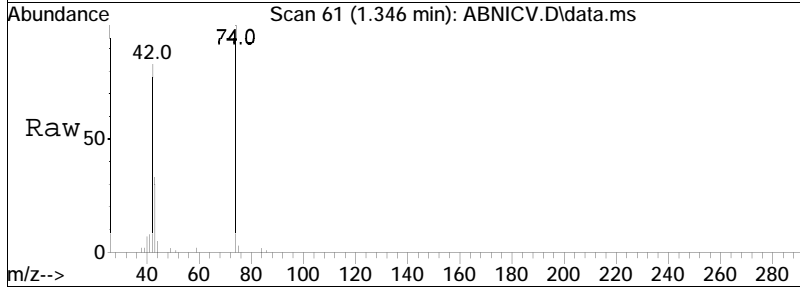
Sub List : ABNical_REV1 - ABN ical sublist9L7.D•

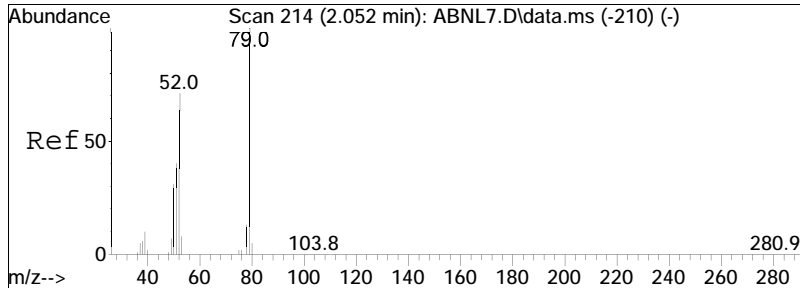




#2
 n-Nitrosodimethylamine
 Concen: 49.56 ug/ml
 RT: 1.346 min Scan# 61
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

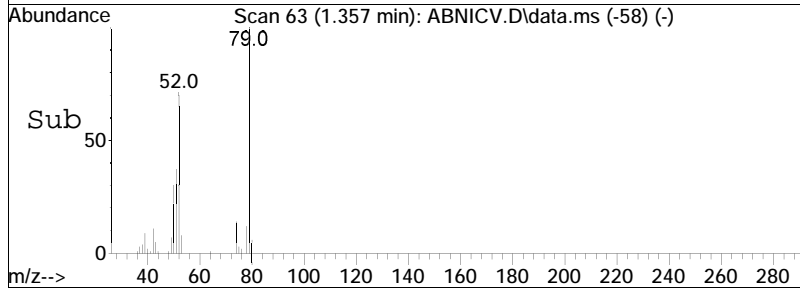
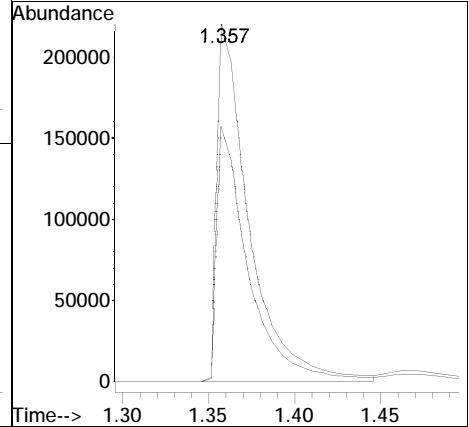
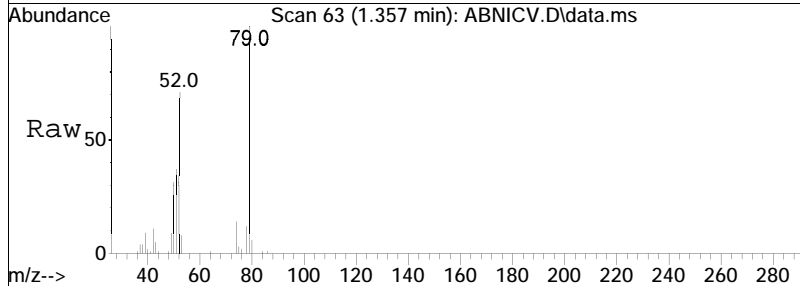
Tgt Ion	74	42	44	Ratio	100	84.5	4.8	Resp	188287	Lower	Upper

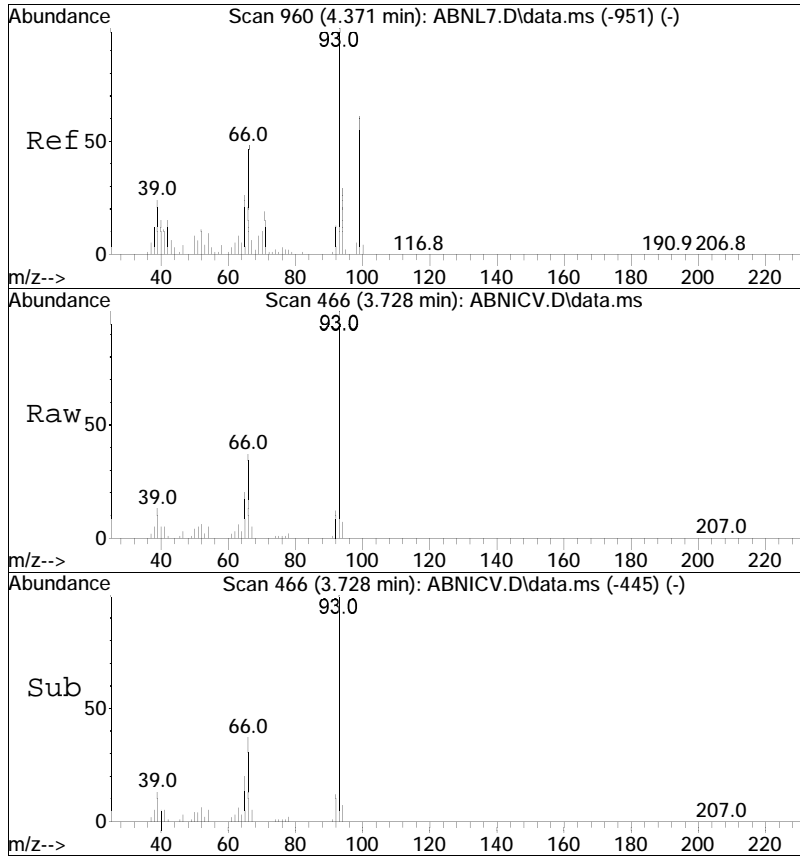




#3
 Pyridine
 Concen: 46.93 ug/ml
 RT: 1.357 min Scan# 63
 Delta R.T. -0.012 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

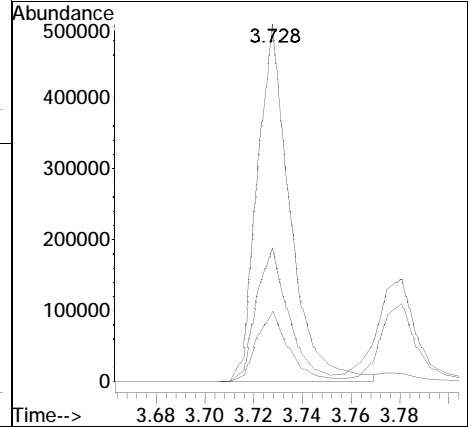
Tgt Ion:	Resp:	Lower	Upper
79	100		
52	69.7	71.8	107.8#

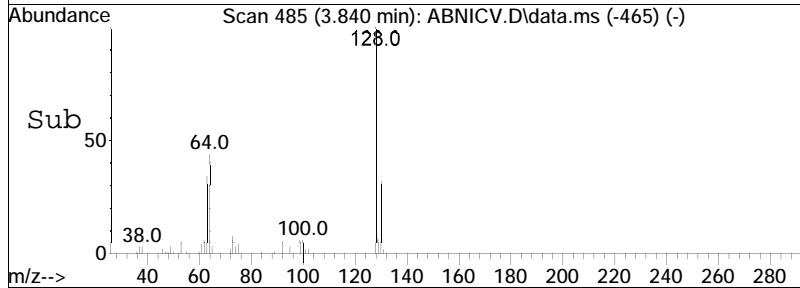
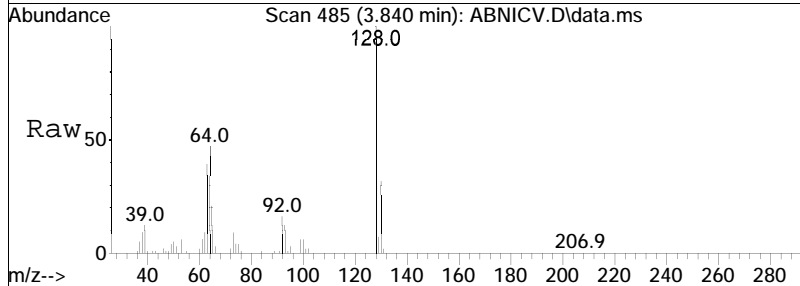
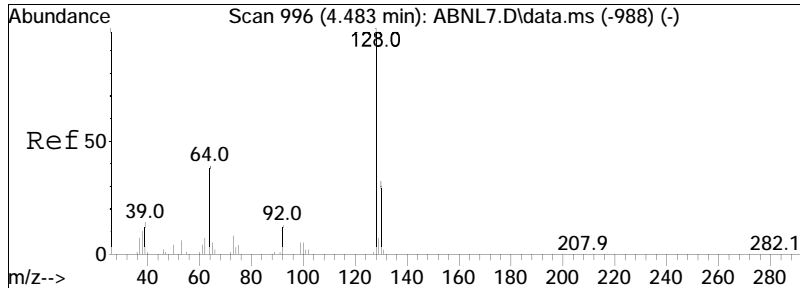




#5
 Aniline
 Concen: 47.45 ug/ml
 RT: 3.728 min Scan# 466
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

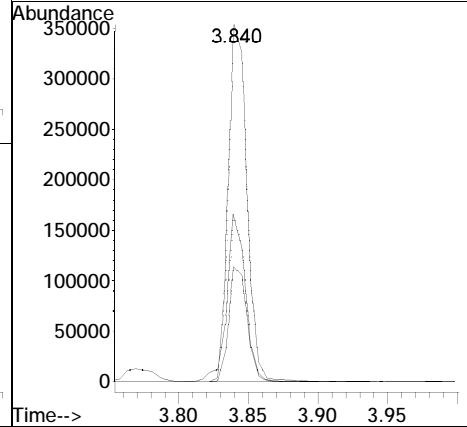
Tgt Ion:	93	Resp:	468564
Ion Ratio	Lower	Upper	
93	100		
66	37.4	57.0	85.4#
65	19.6	36.2	54.2#

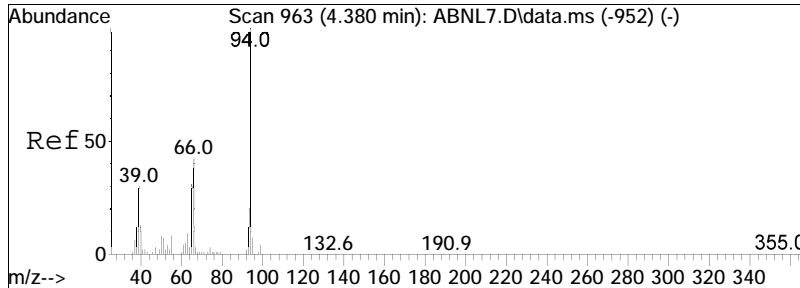




#6
 2-Chlorophenol
 Concen: 47.95 ug/ml
 RT: 3.840 min Scan# 485
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

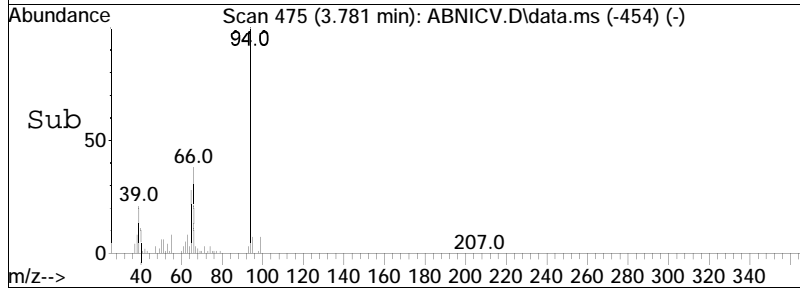
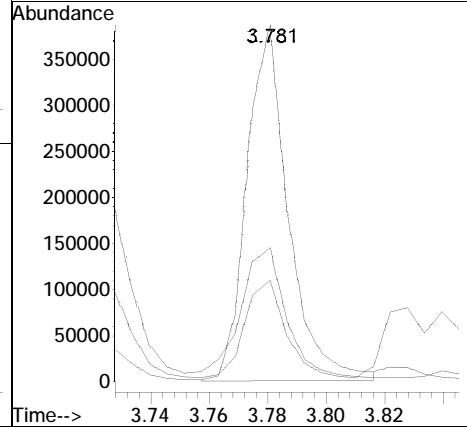
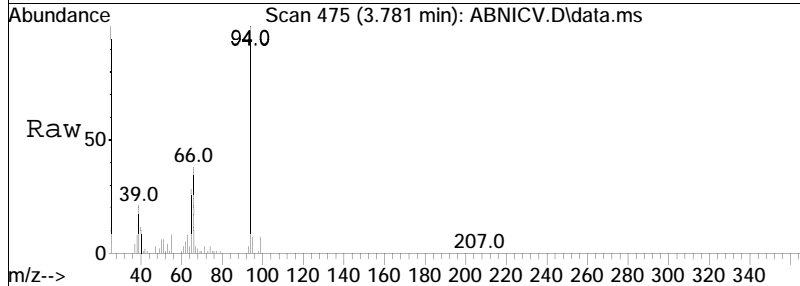
Tgt Ion	Resp	Lower	Upper
128	100		
64	46.8	38.1	57.1
130	32.3	25.7	38.5

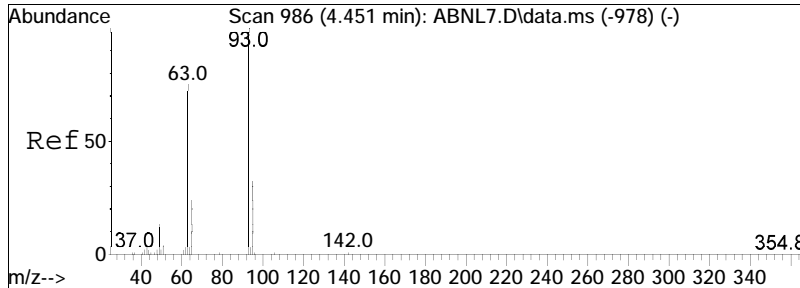




#8
 Phenol
 Concen: 47.74 ug/ml
 RT: 3.781 min Scan# 475
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

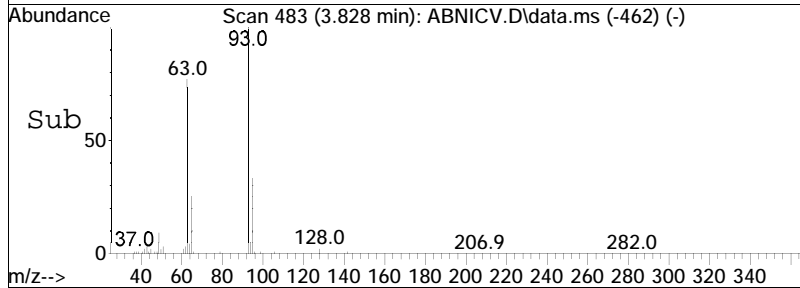
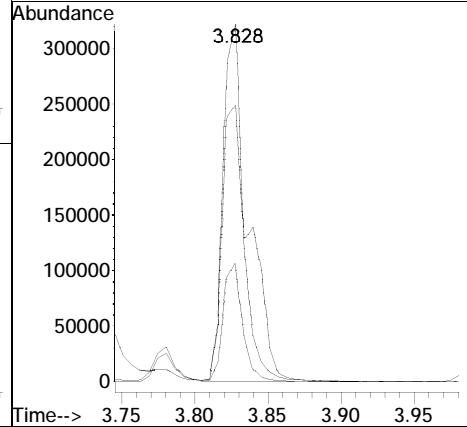
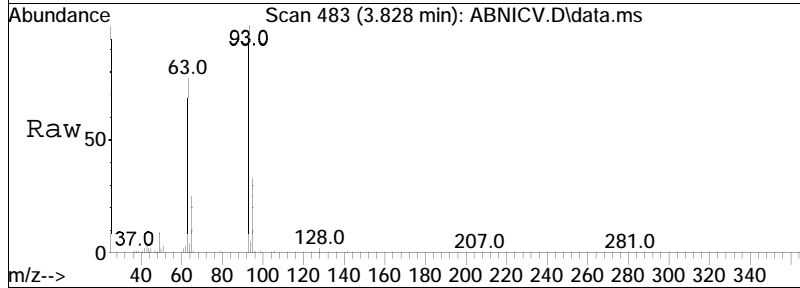
Tgt Ion	Ratio	Lower	Upper
94	100		
65	30.0	40.7	61.1#
66	44.9	64.1	96.1#

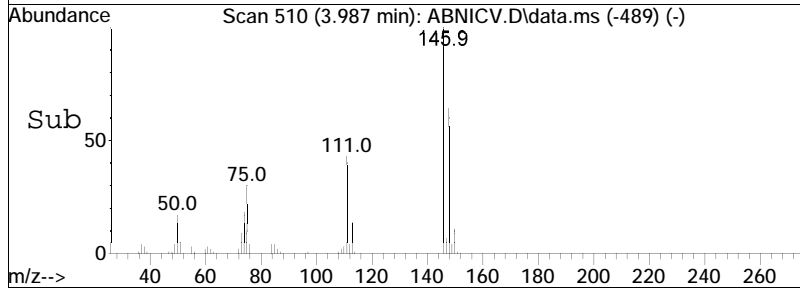
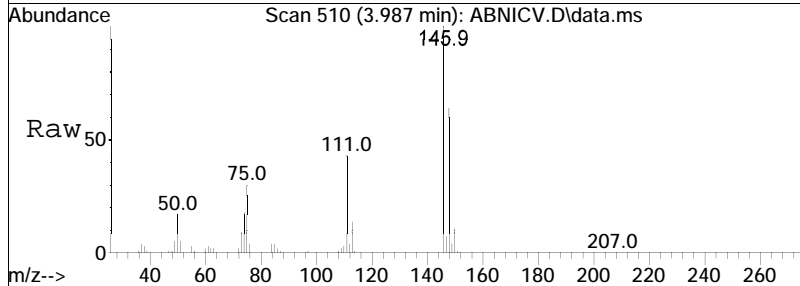
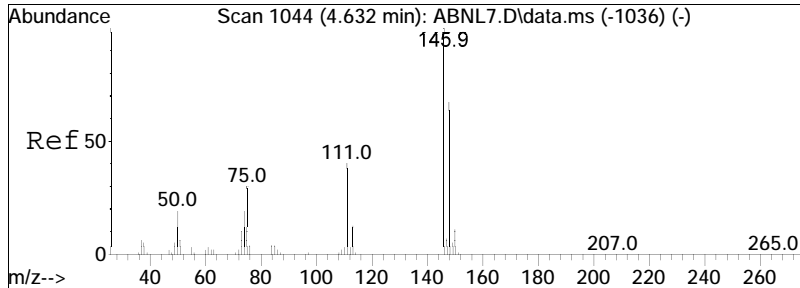




#9
 Bis(2-chloroethyl)ether
 Concen: 47.77 ug/ml
 RT: 3.828 min Scan# 483
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

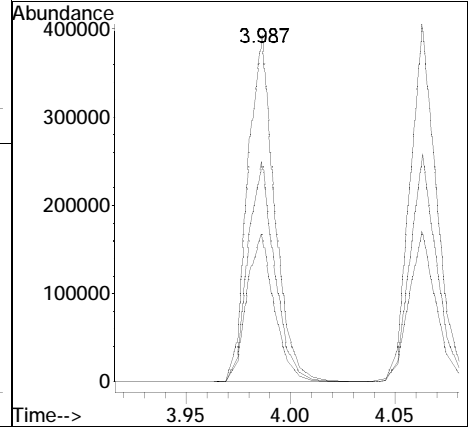
Tgt Ion:	93	Resp:	306267
Ion Ratio	Lower	Upper	
93	100		
63	109.8	73.7	110.5
95	32.2	26.9	40.3

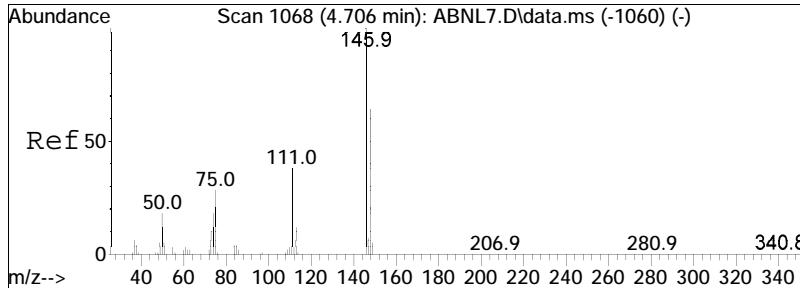




#10
 1,3-Dichlorobenzene
 Concen: 47.59 ug/ml
 RT: 3.987 min Scan# 510
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

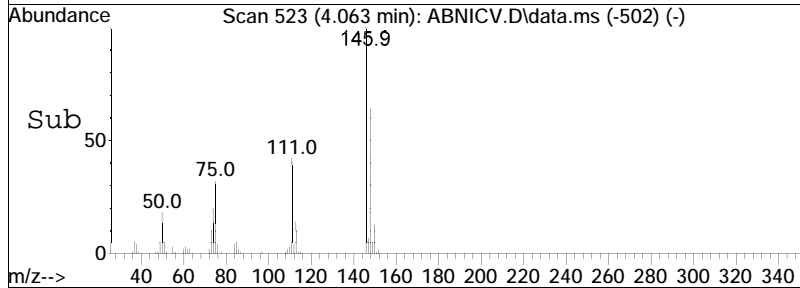
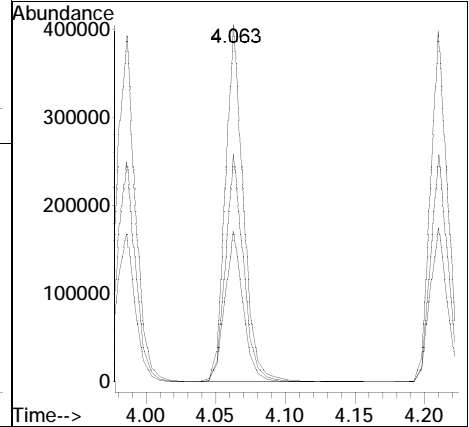
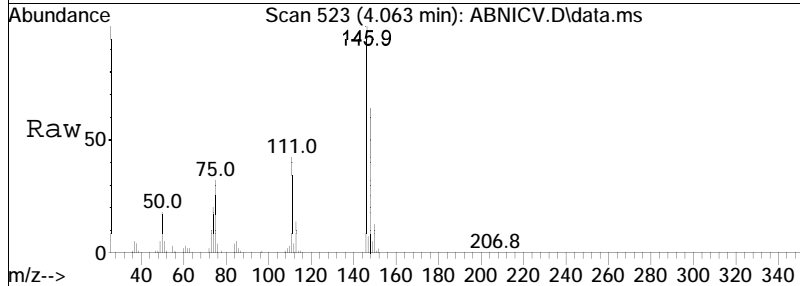
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.3	33.0	49.4
148	63.2	51.0	76.6

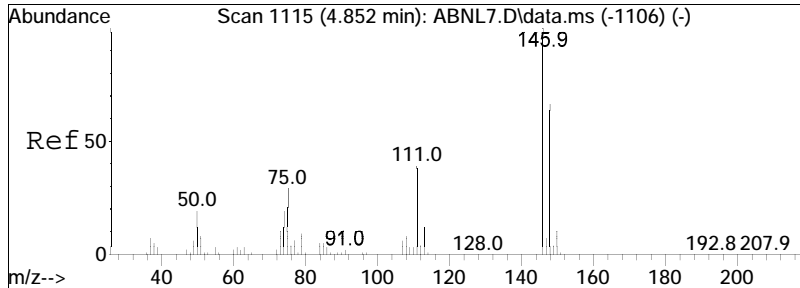




#11
 1,4-Dichlorobenzene
 Concen: 47.92 ug/ml
 RT: 4.063 min Scan# 523
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

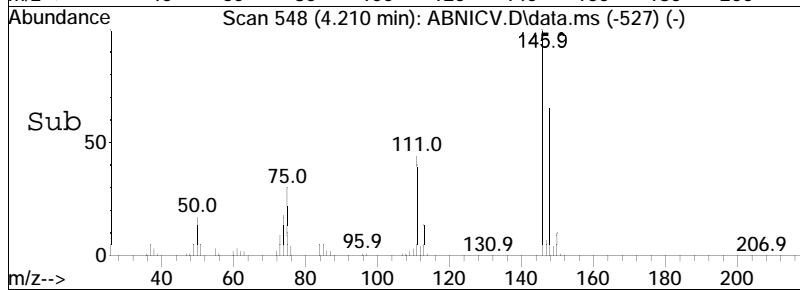
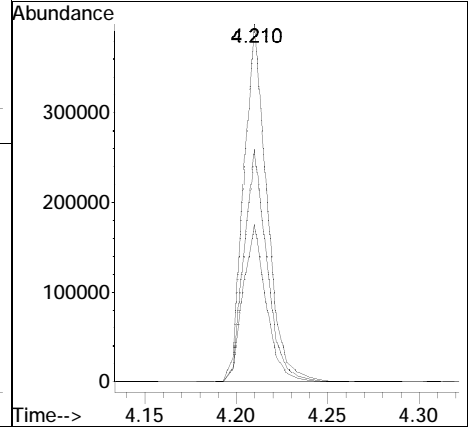
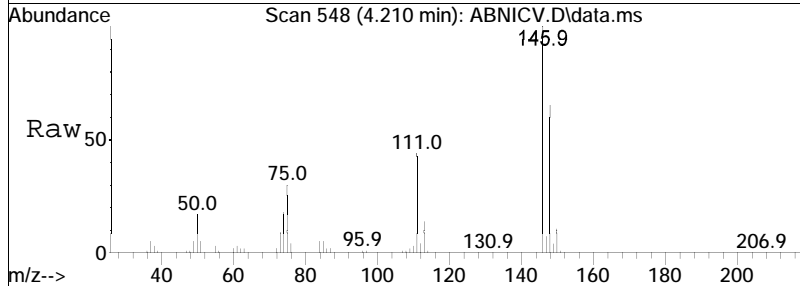
Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.4	77.0
111	43.0	31.8	47.8

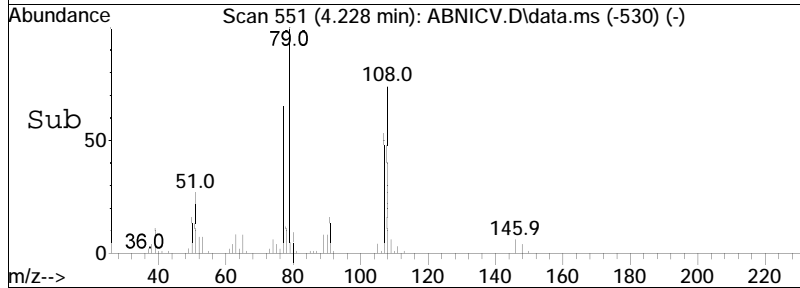
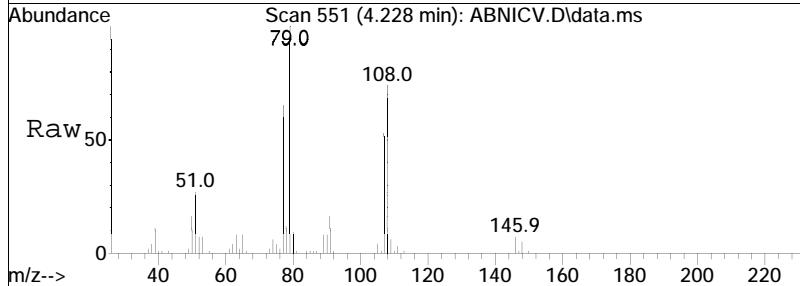
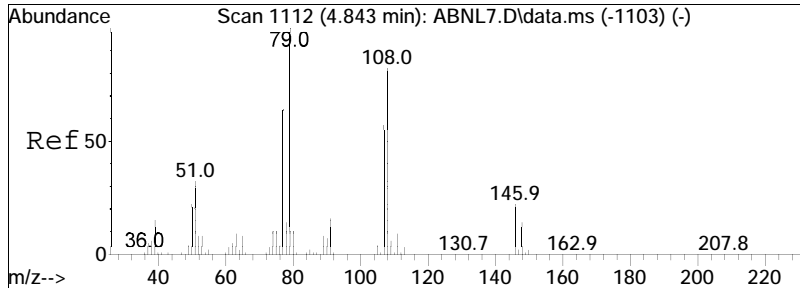




#12
 1,2-Dichlorobenzene
 Concen: 47.50 ug/ml
 RT: 4.210 min Scan# 548
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

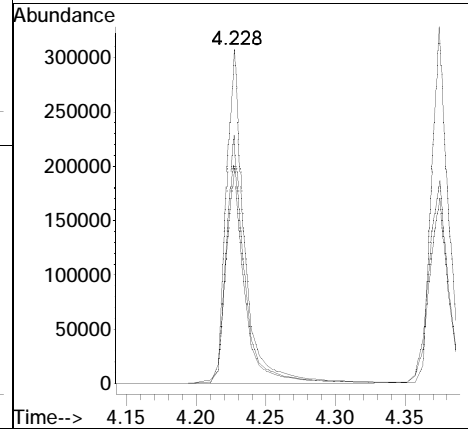
Tgt Ion	Resp	Lower	Upper
146	349884		
146	100		
111	44.3	32.8	49.2
148	64.7	51.4	77.2

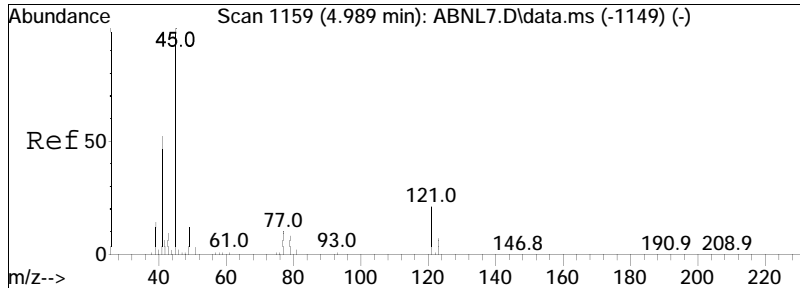




#13
 Benzyl alcohol
 Concen: 49.65 ug/ml
 RT: 4.228 min Scan# 551
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

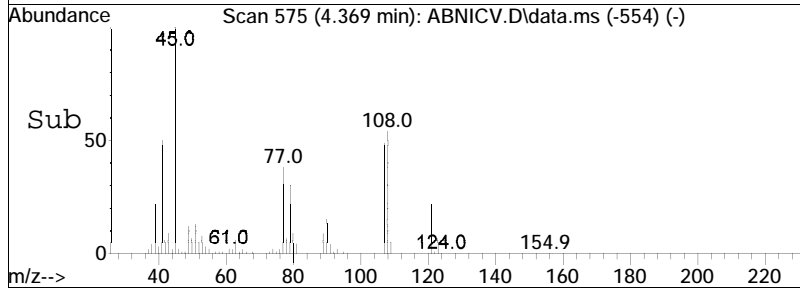
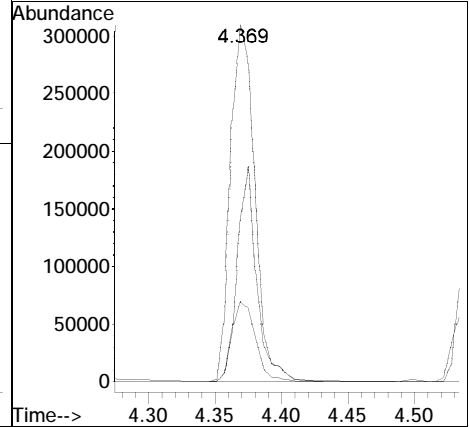
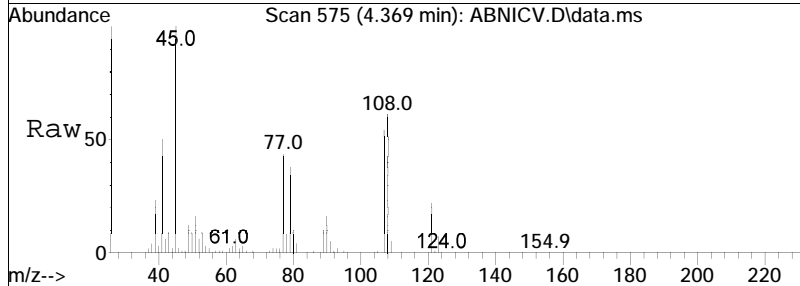
Tgt Ion:	79	Resp:	283129
Ion Ratio	Lower	Upper	
79	100		
77	66.1	52.4	78.6
108	74.8	66.7	100.1

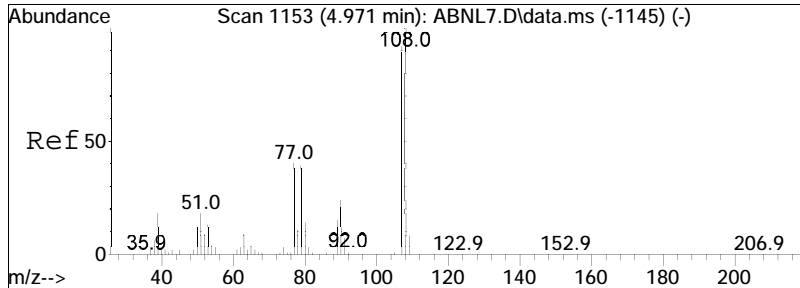




#14
 Bis(2-chloroisopropyl) ether
 Concen: 46.50 ug/ml
 RT: 4.369 min Scan# 575
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

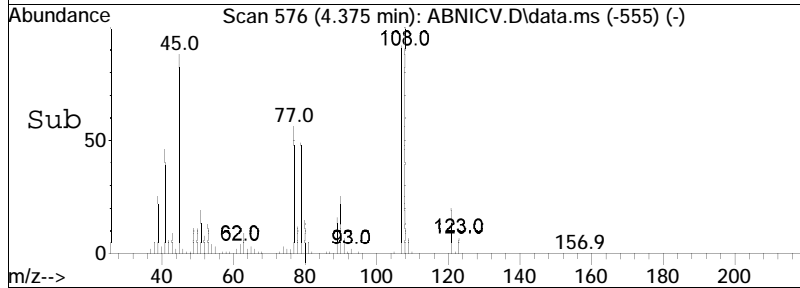
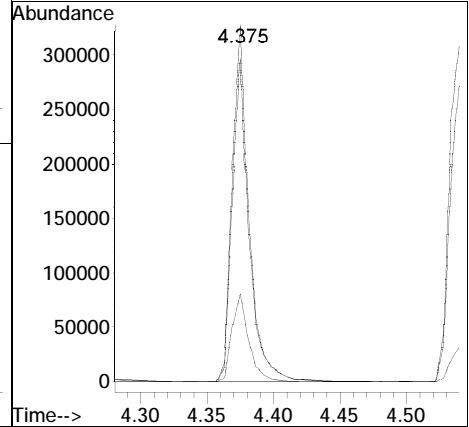
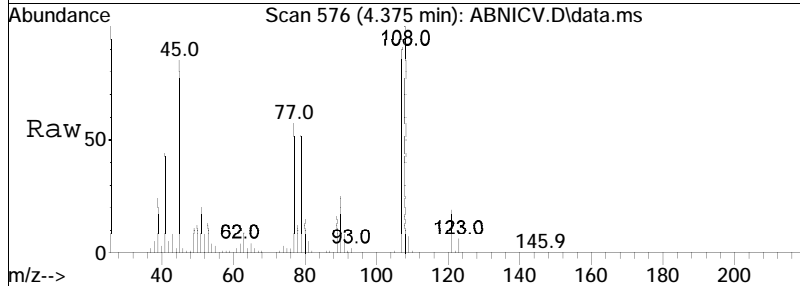
Tgt Ion	Resp	Lower	Upper
45	393961		
121	22.4	12.6	19.0#
77	47.9	24.6	37.0#

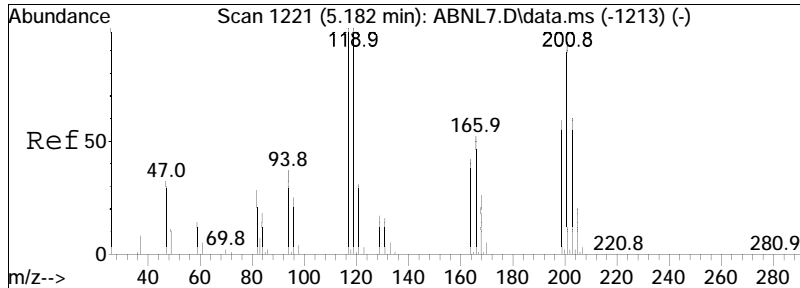




#15
 2-Methylphenol
 Concen: 48.68 ug/ml
 RT: 4.375 min Scan# 576
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

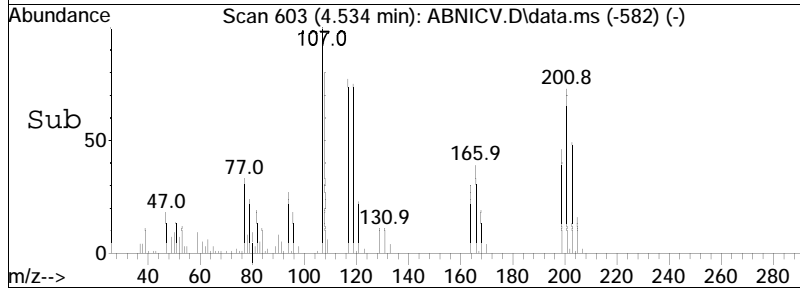
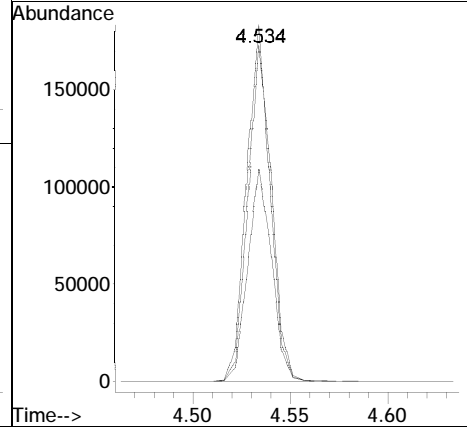
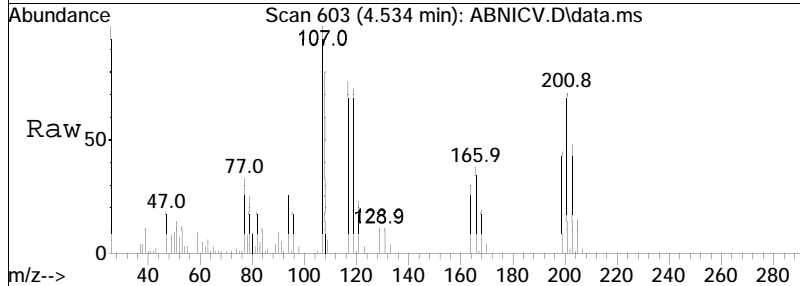
Tgt Ion	Ratio	Lower	Upper
108	100		
107	90.8	72.6	108.8
90	25.4	19.2	28.8

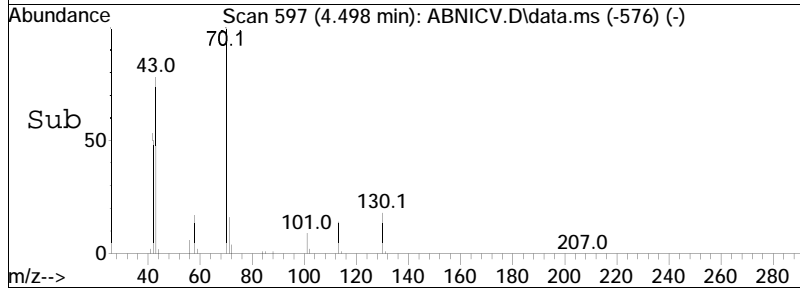
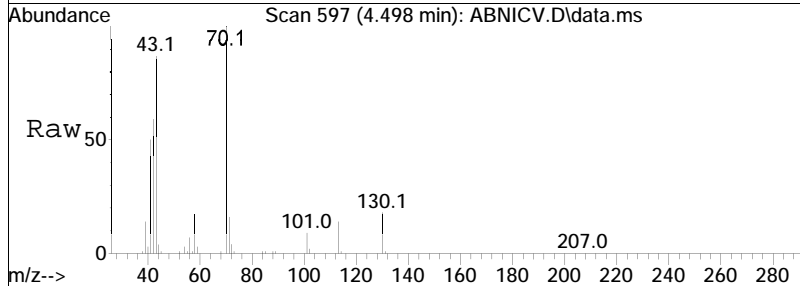
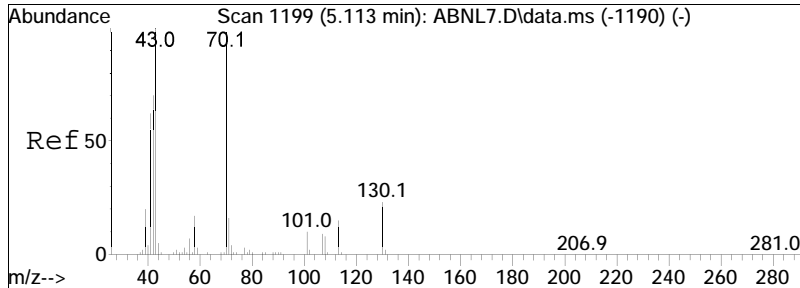




#16
 Hexachloroethane
 Concen: 46.70 ug/ml
 RT: 4.534 min Scan# 603
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

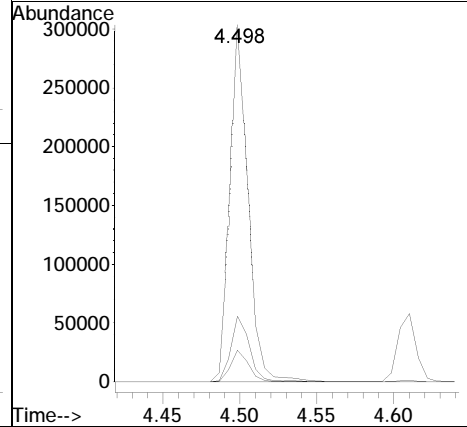
Tgt Ion	Resp	Lower	Upper
117	100		
201	95.8	72.7	109.1
199	61.2	46.2	69.2

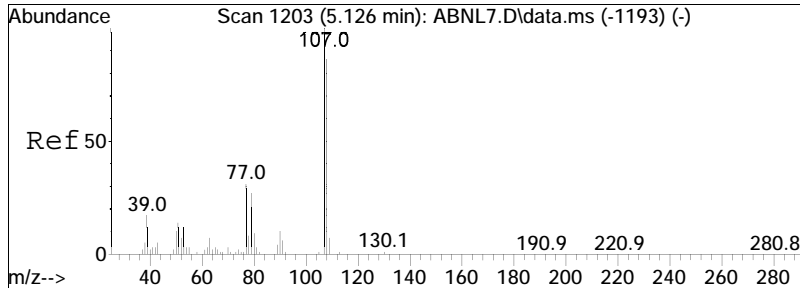




#17
 n-Nitrosodi-n-propylamine
 Concen: 47.51 ug/ml
 RT: 4.498 min Scan# 597
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

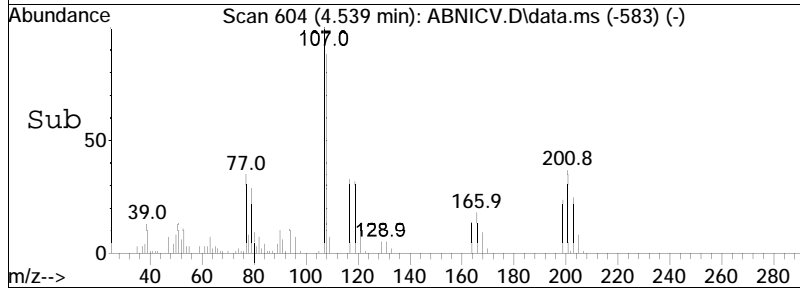
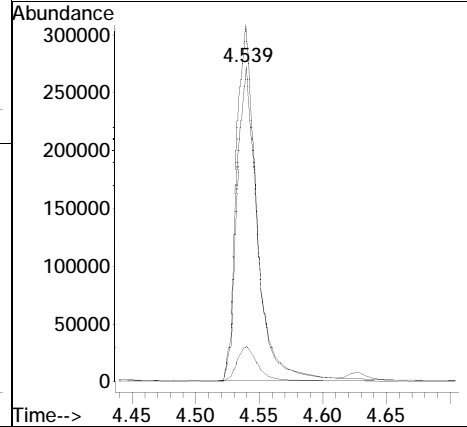
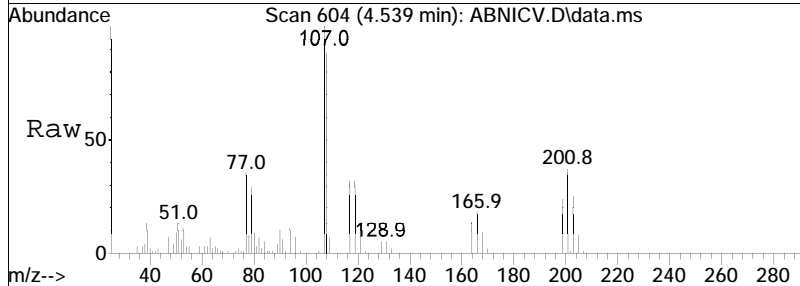
Tgt Ion	Resp	Lower	Upper
70	248017		
130	18.9	16.6	24.8
101	8.9	7.4	11.0

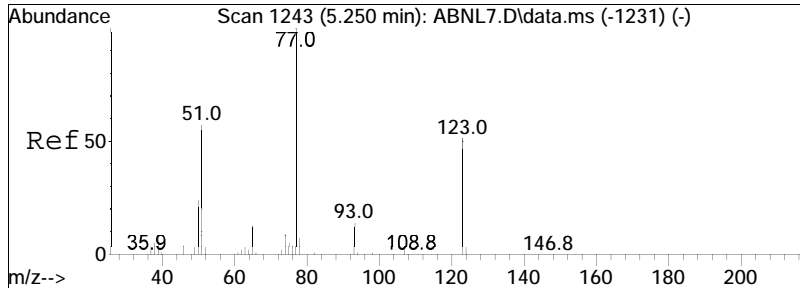




#18
 3-Methylphenol/4-Methylphenol
 Concen: 49.73 ug/ml
 RT: 4.539 min Scan# 604
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

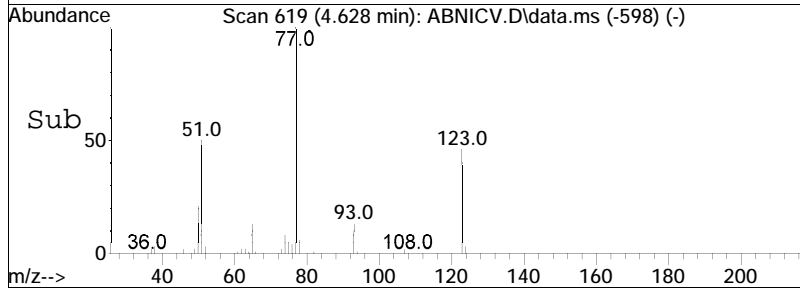
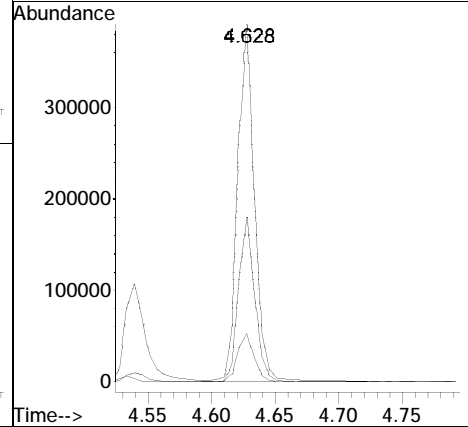
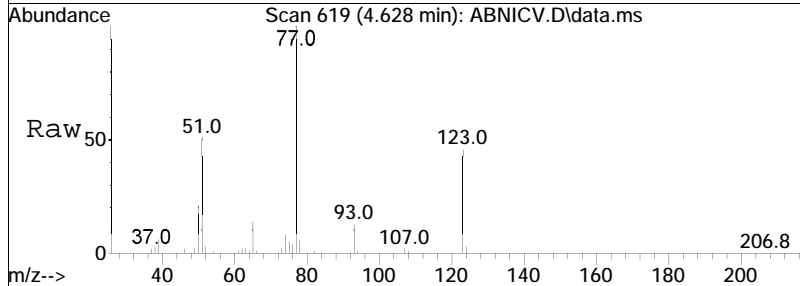
Tgt Ion	Resp	Lower	Upper
108	307547		
108	100		
107	111.9	91.0	136.6
90	11.8	8.7	13.1

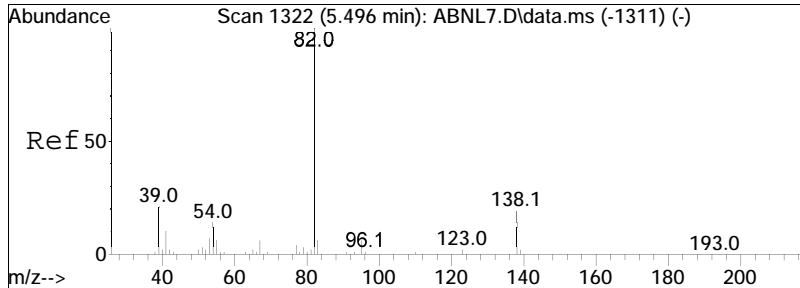




#20
 Nitrobenzene
 Concen: 48.13 ug/ml
 RT: 4.628 min Scan# 619
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

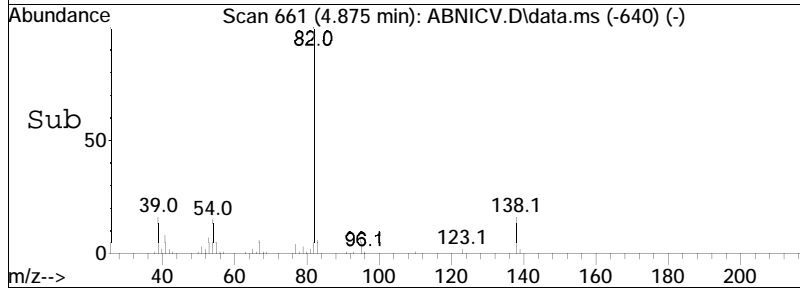
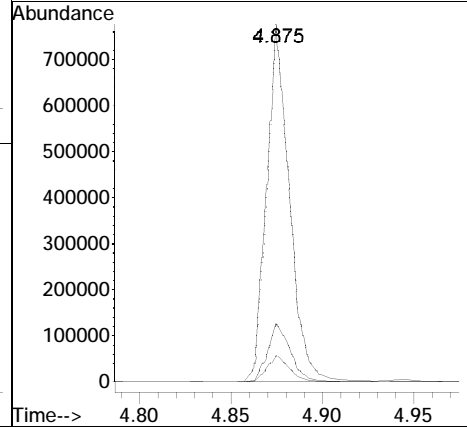
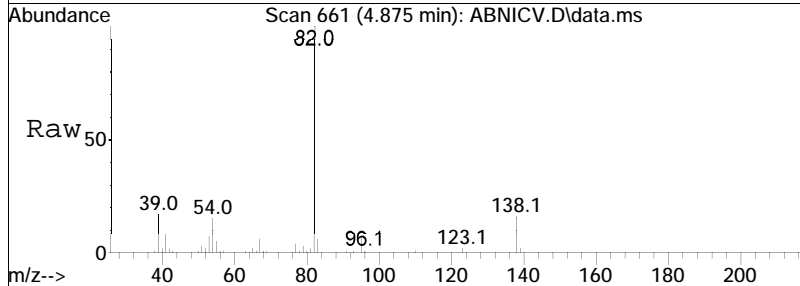
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
77	100		
123	45.1	38.5	57.7
65	14.0	11.4	17.0

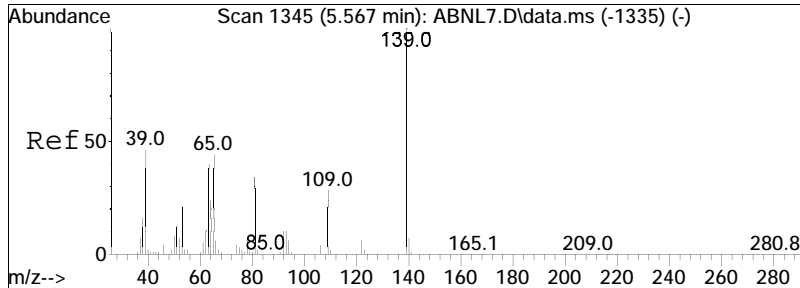




#21
 Isophorone
 Concen: 46.73 ug/ml
 RT: 4.875 min Scan# 661
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

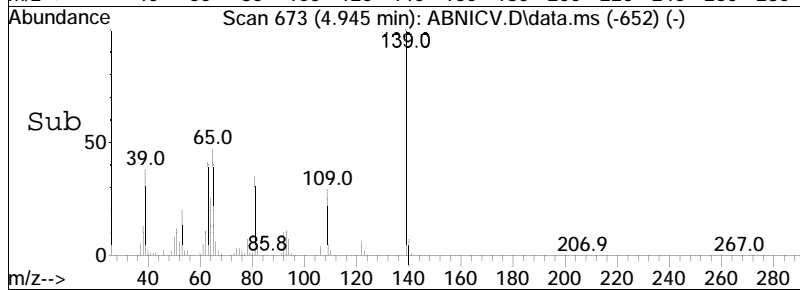
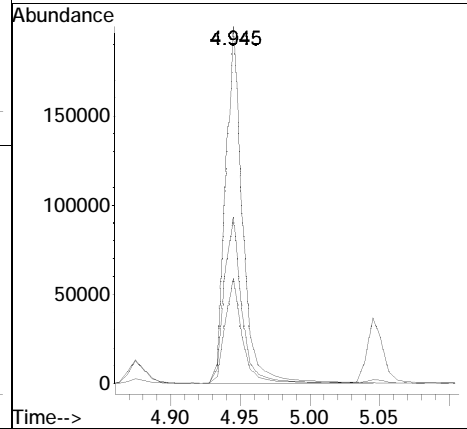
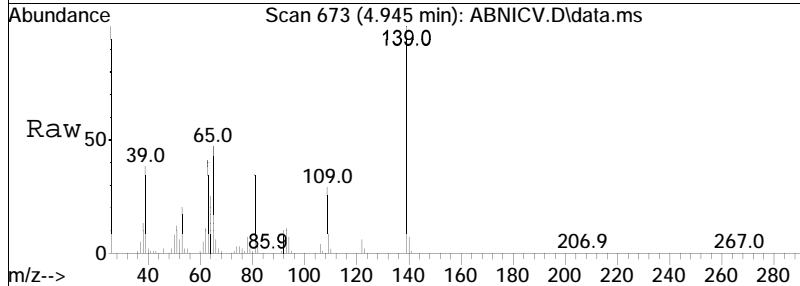
Tgt Ion	Resp	Lower	Upper
82	100		
138	16.5	13.6	20.4
95	7.4	5.1	7.7

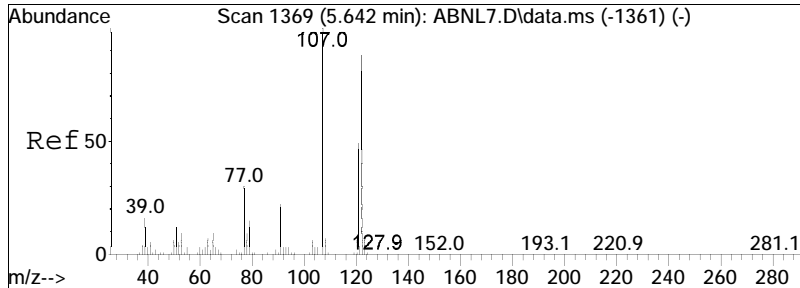




#22
 2-Nitrophenol
 Concen: 46.25 ug/ml
 RT: 4.945 min Scan# 673
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

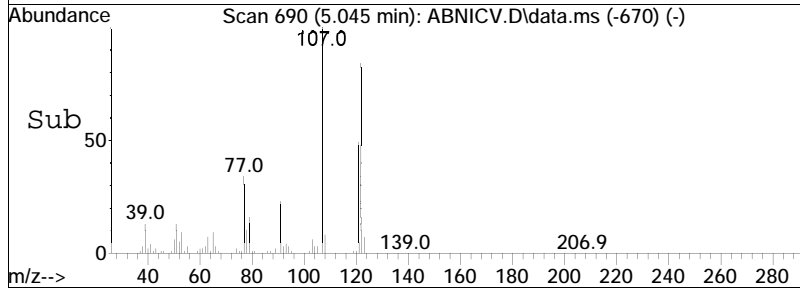
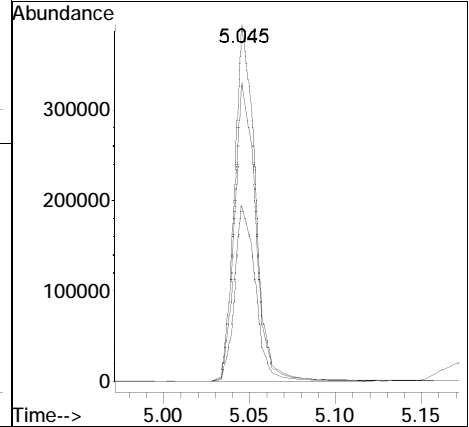
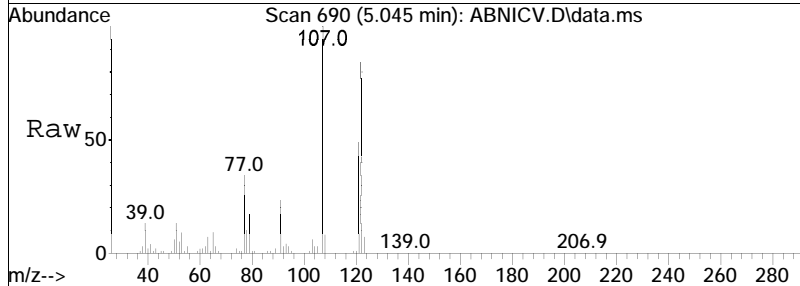
Tgt Ion	Ratio	Lower	Upper
139	100		
109	30.1	19.8	29.6#
65	48.9	39.6	59.4

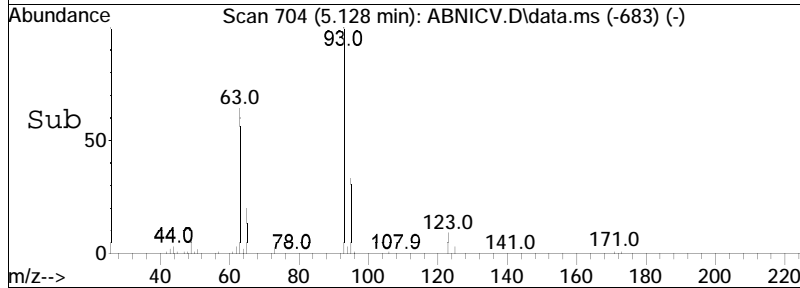
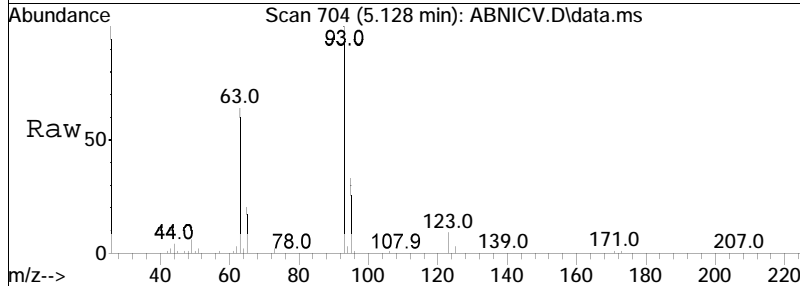
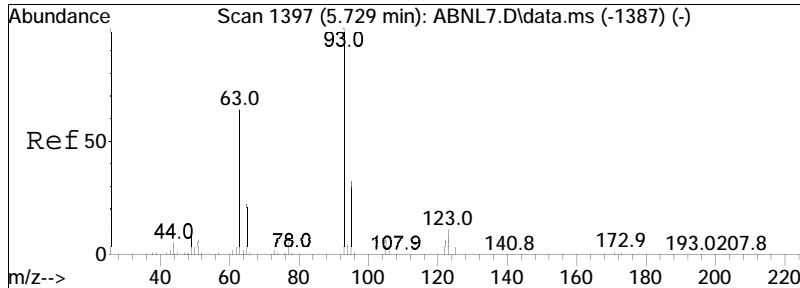




#23
 2,4-Dimethylphenol
 Concen: 48.35 ug/ml
 RT: 5.045 min Scan# 690
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

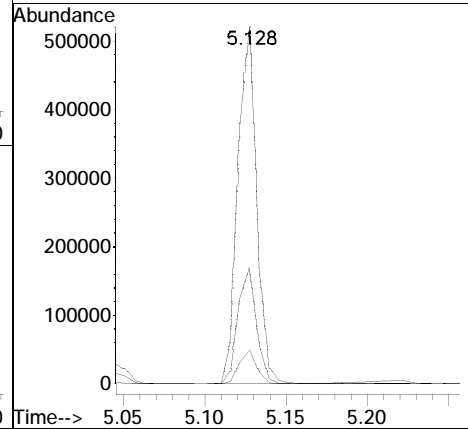
Tgt Ion	Resp	Lower	Upper
107	100		
121	49.6	43.0	64.4
122	84.0	71.8	107.8

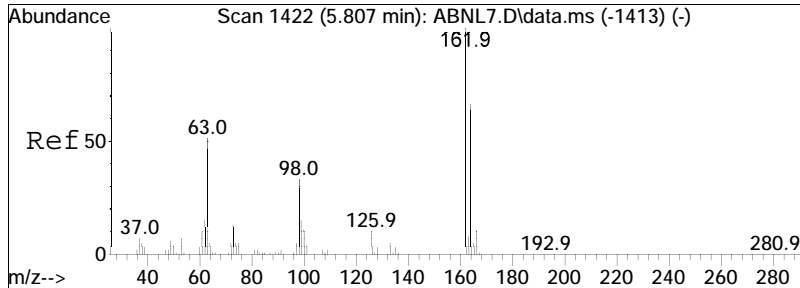




#24
 Bis(2-chloroethoxy)methane
 Concen: 48.10 ug/ml
 RT: 5.128 min Scan# 704
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

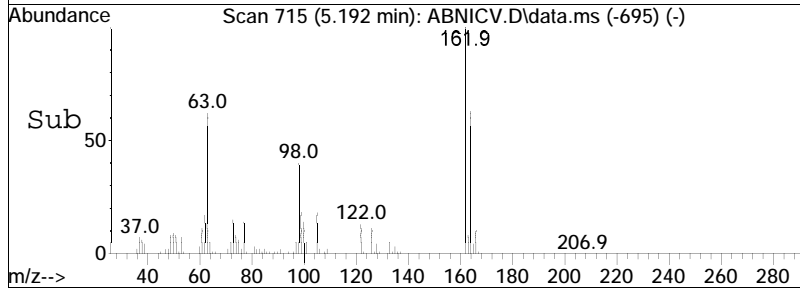
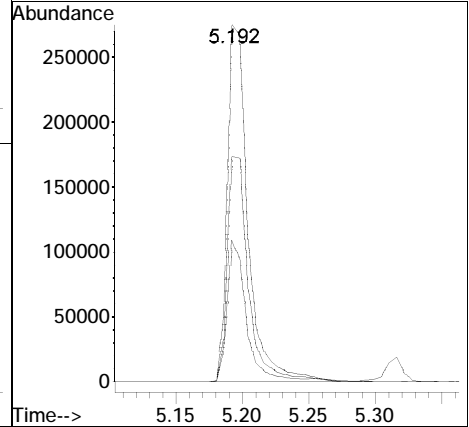
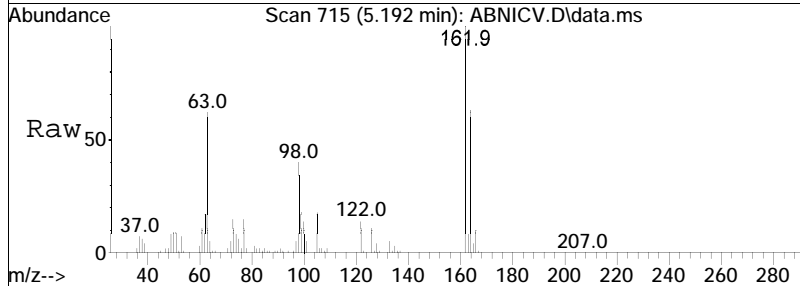
Tgt Ion	Resp	Lower	Upper
93	100		
95	32.4	26.6	40.0
123	9.1	11.0	16.4#

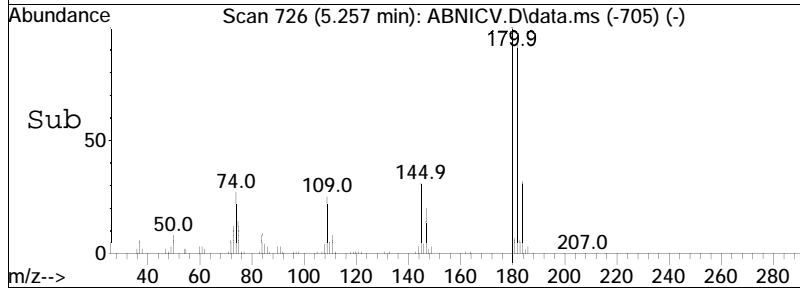
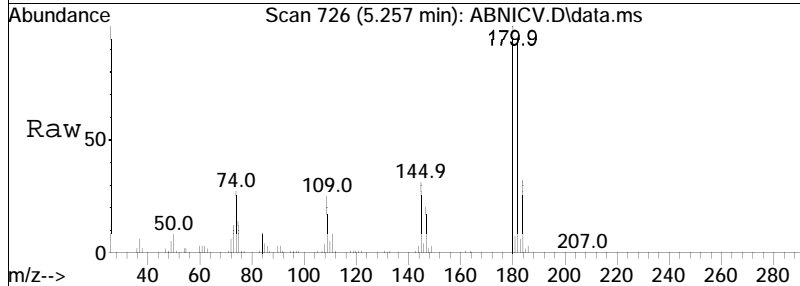
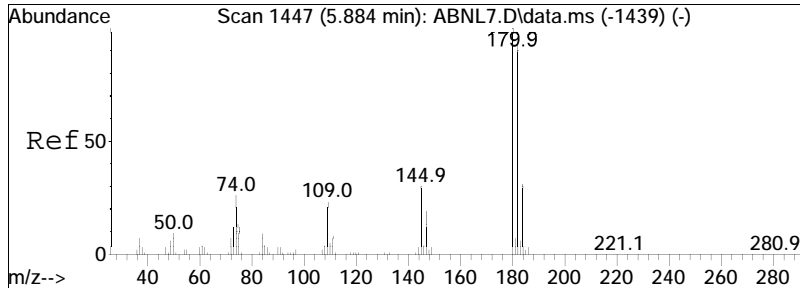




#25
 2,4-Dichlorophenol
 Concen: 49.40 ug/ml
 RT: 5.192 min Scan# 715
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

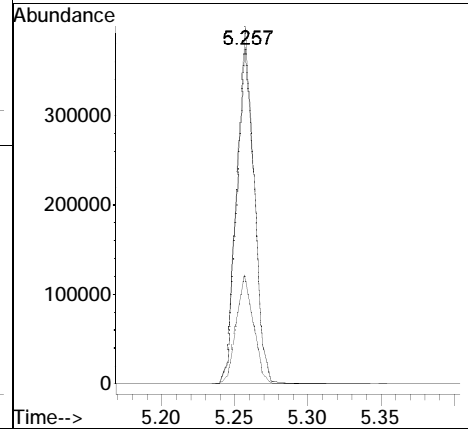
Tgt Ion	Resp	Lower	Upper
162	100		
164	64.4	51.6	77.4
98	37.6	29.4	44.2

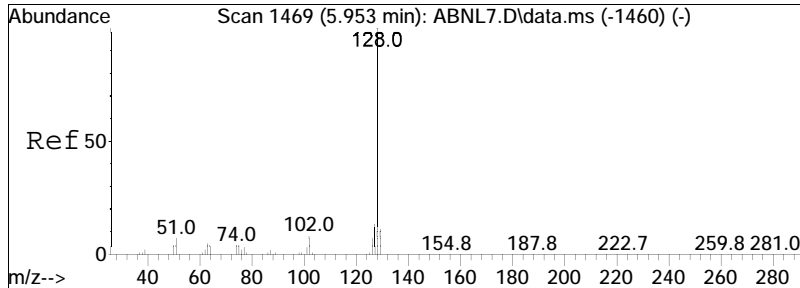




#26
 1,2,4-Trichlorobenzene
 Concen: 48.14 ug/ml
 RT: 5.257 min Scan# 726
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

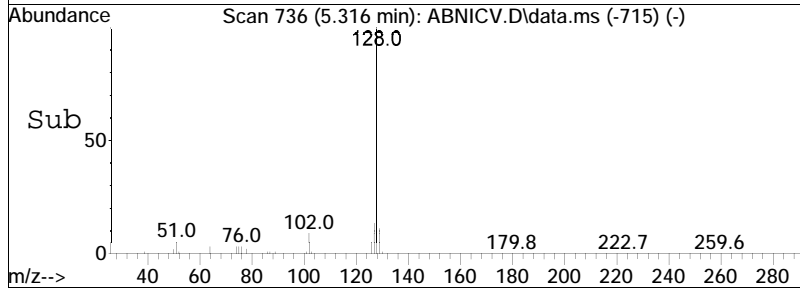
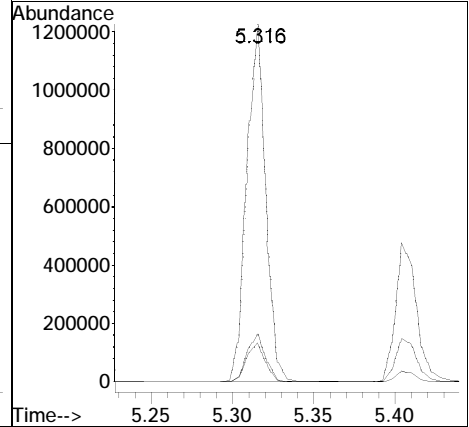
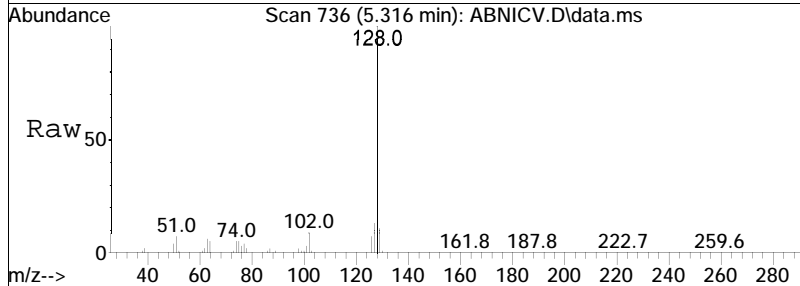
Tgt Ion	Resp	Lower	Upper
180	100		
182	95.8	77.0	115.6
145	30.7	25.2	37.8

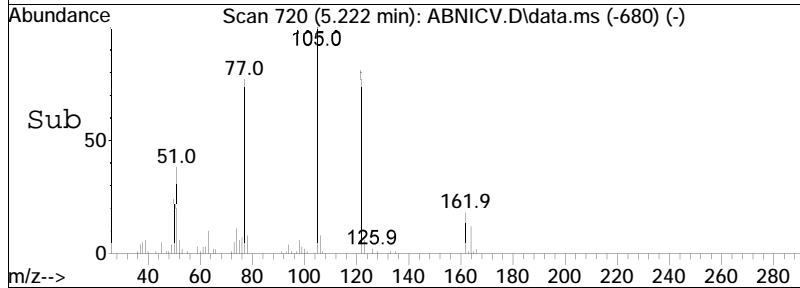
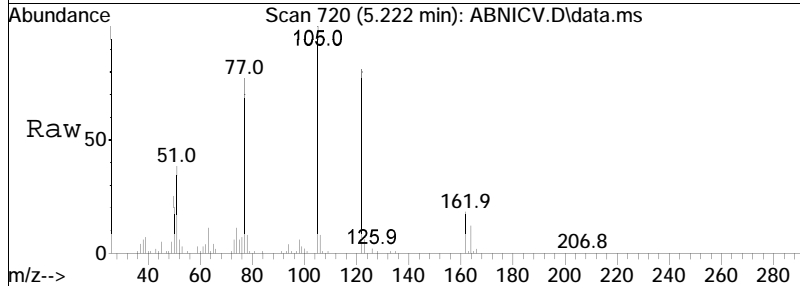
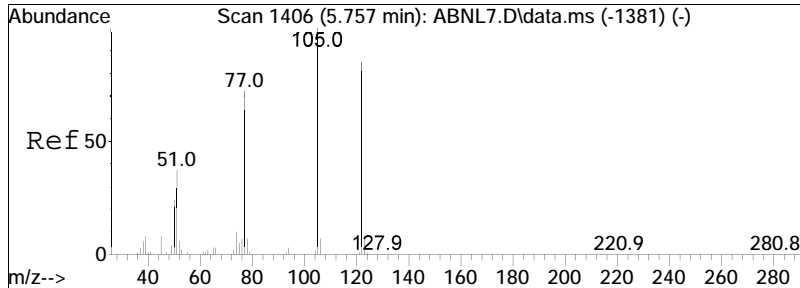




#36
 Naphthalene
 Concen: 47.05 ug/ml
 RT: 5.316 min Scan# 736
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

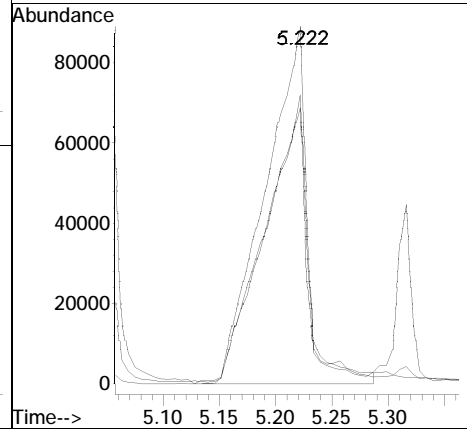
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	13.5	10.9	16.3

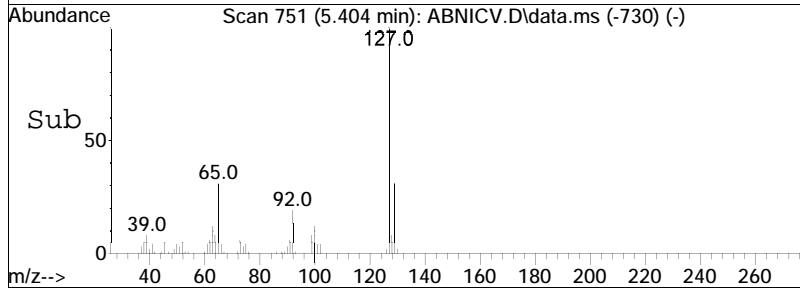
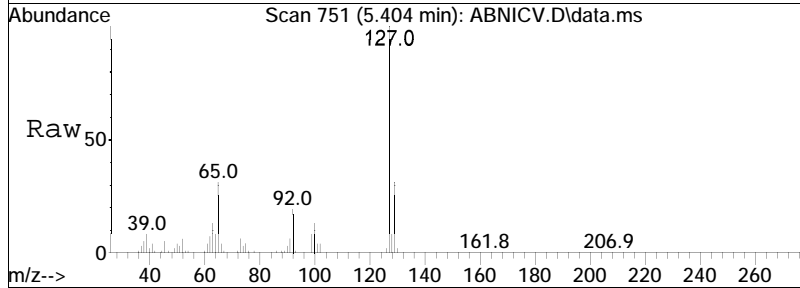
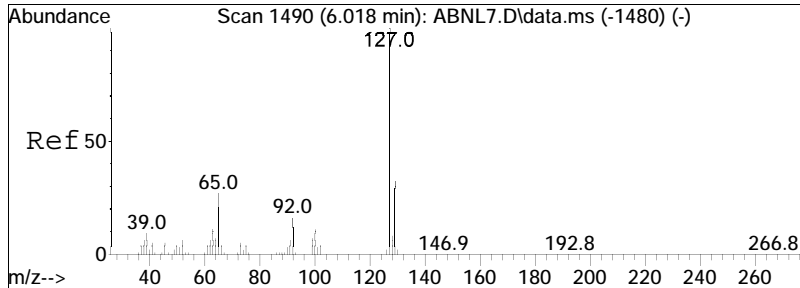




#37
 Benzoic Acid
 Concen: 41.97 ug/ml
 RT: 5.222 min Scan# 720
 Delta R.T. -0.012 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

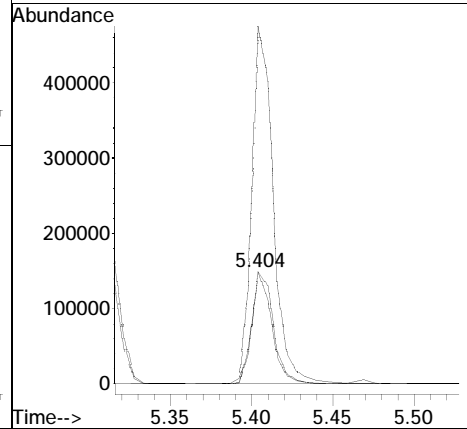
Tgt Ion	Ratio	Lower	Upper
105	100		
122	82.0	67.0	100.4
77	76.5	58.8	88.2

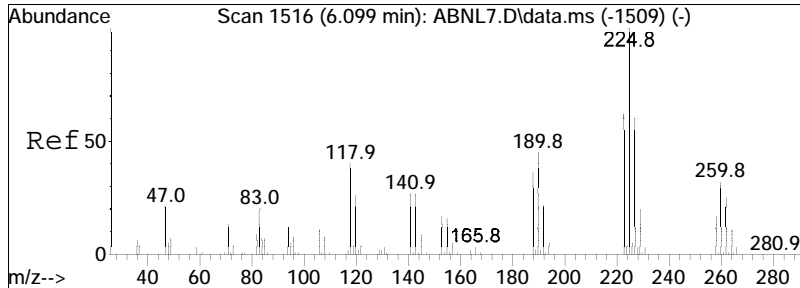




#38
 4-Chloroaniline
 Concen: 48.15 ug/ml
 RT: 5.404 min Scan# 751
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

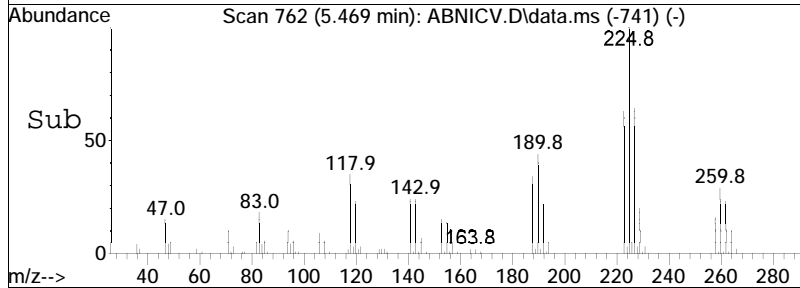
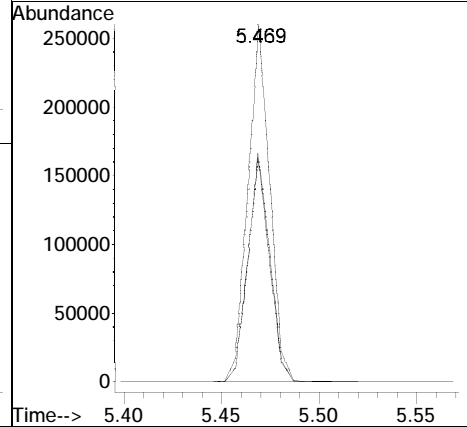
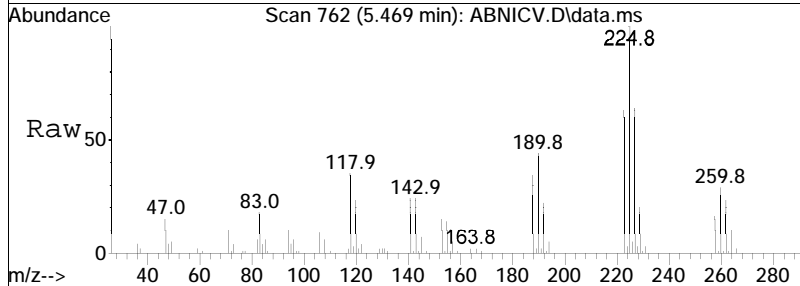
Tgt Ion:	Resp:	Lower	Upper
65	130468		
127	332.0	274.4	411.6
129	105.4	88.2	132.4

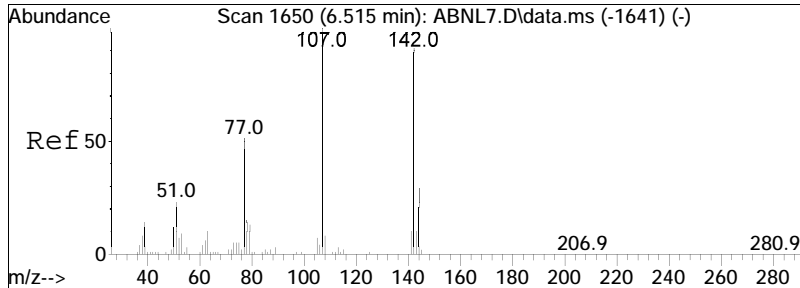




#39
 Hexachlorobutadiene
 Concen: 45.96 ug/ml
 RT: 5.469 min Scan# 762
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

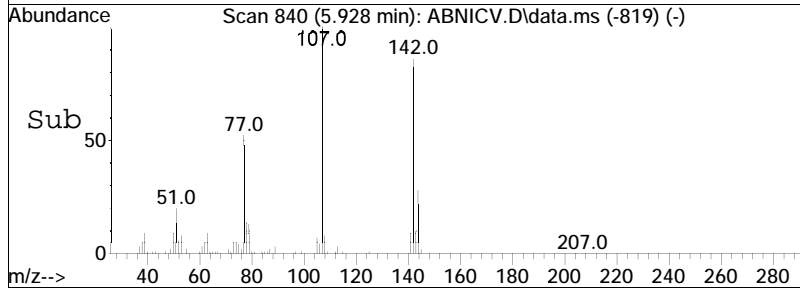
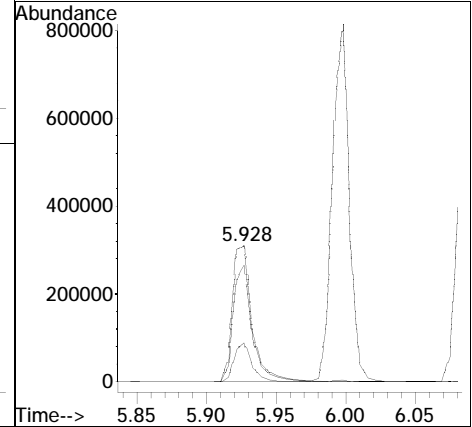
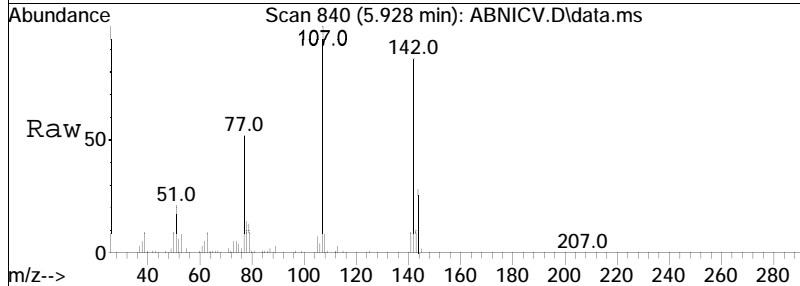
Tgt Ion	Resp	Lower	Upper
225	100		
223	62.7	49.3	73.9
227	64.3	51.1	76.7

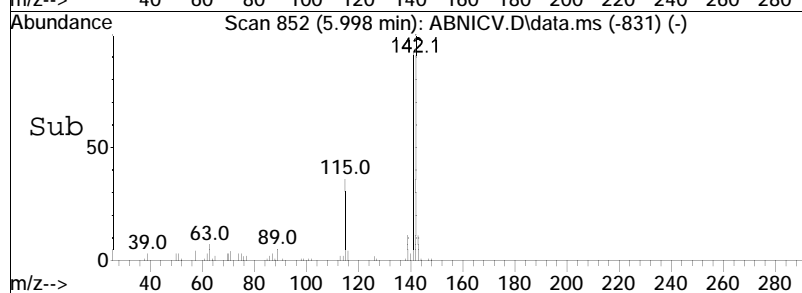
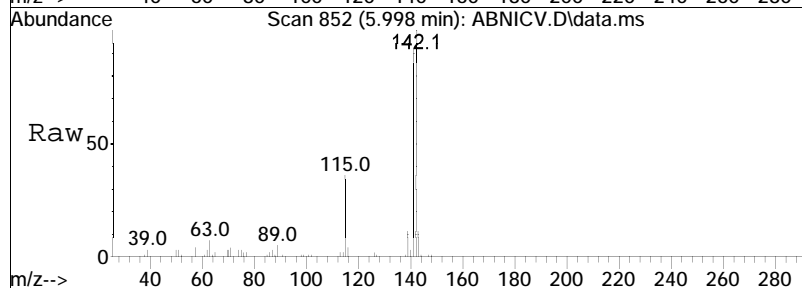
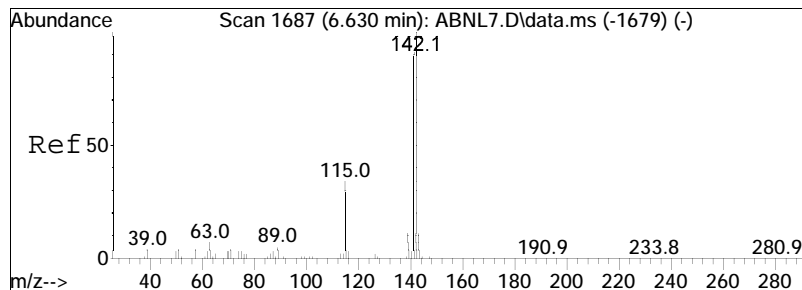




#40
 p-Chloro-m-cresol
 Concen: 47.95 ug/ml
 RT: 5.928 min Scan# 840
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

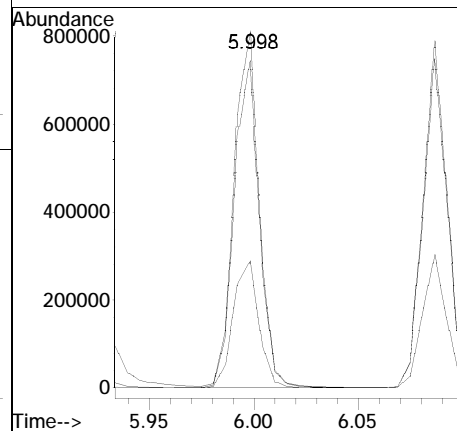
Tgt Ion	Resp	Lower	Upper
107	100		
144	26.3	21.5	32.3
142	80.4	66.8	100.2

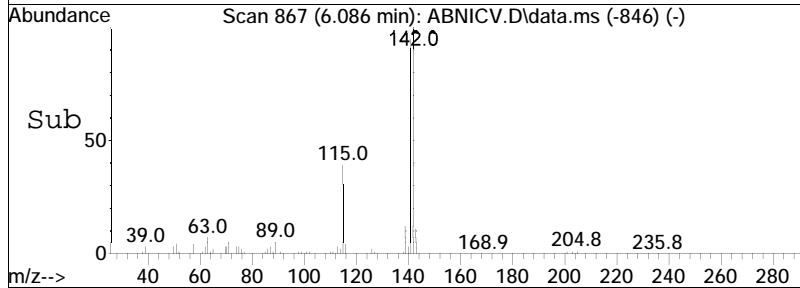
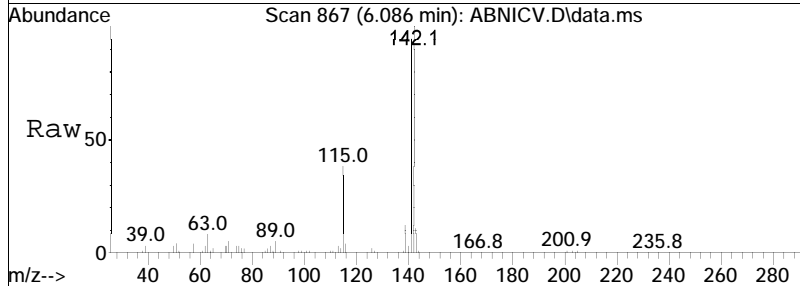
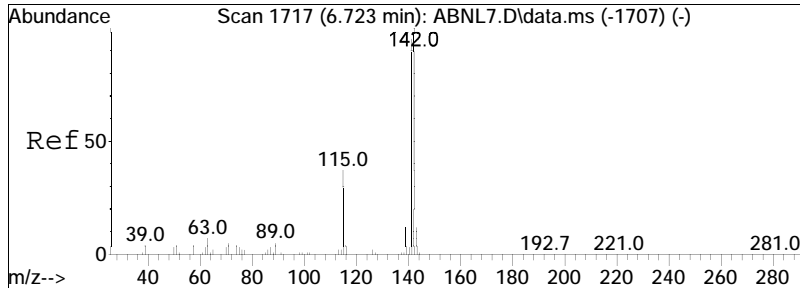




#41
 2-Methylnaphthalene
 Concen: 48.56 ug/ml
 RT: 5.998 min Scan# 852
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

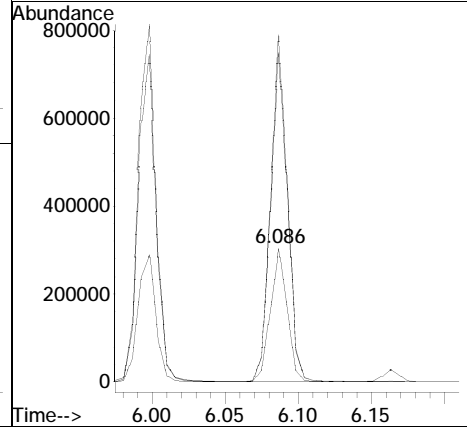
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.5	73.0	109.6
115	36.5	25.4	38.2

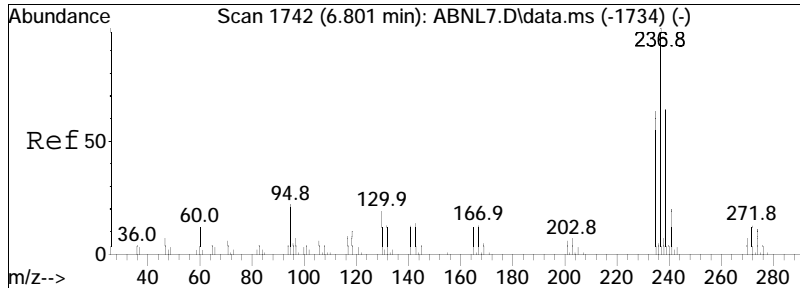




#42
 1-Methylnaphthalene
 Concen: 45.47 ug/ml
 RT: 6.086 min Scan# 867
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

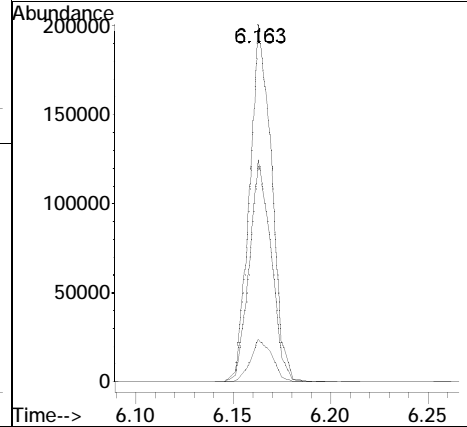
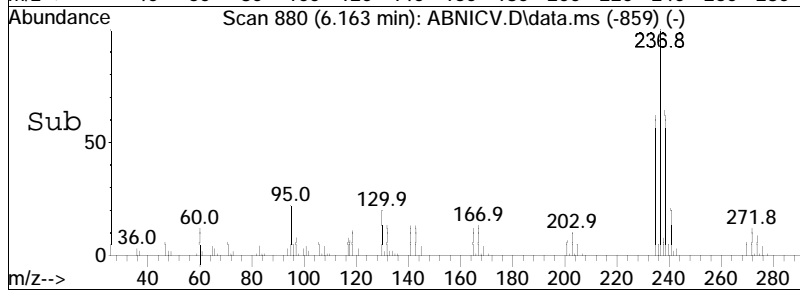
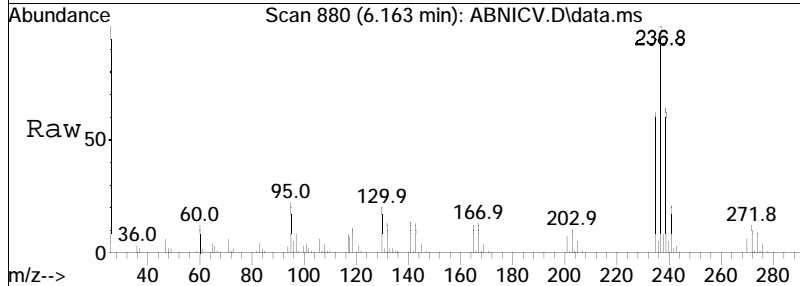
Tgt Ion	Resp	Lower	Upper
115	100		
141	247.1	226.0	339.0
142	259.2	237.6	356.4

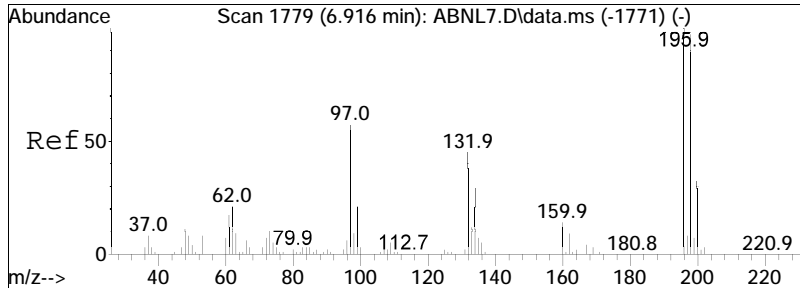




#43
 Hexachlorocyclopentadiene
 Concen: 39.89 ug/ml
 RT: 6.163 min Scan# 880
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

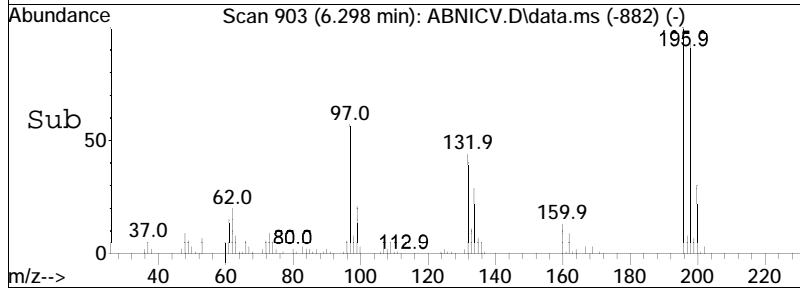
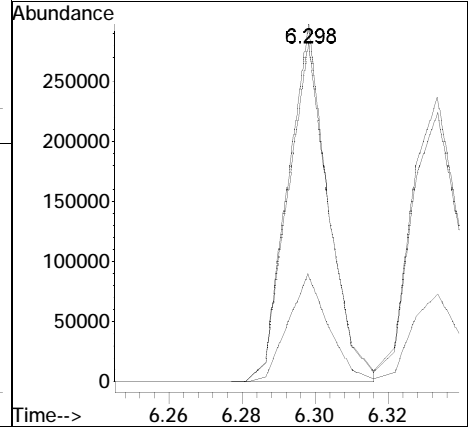
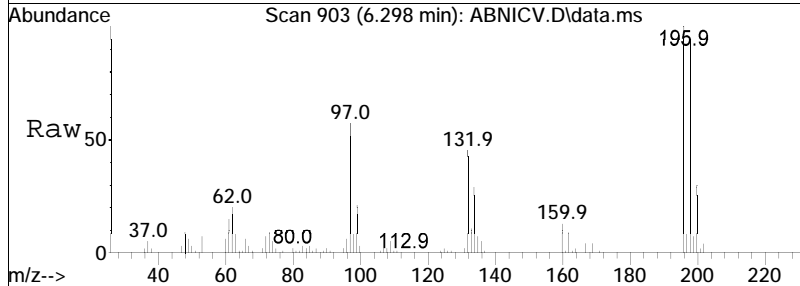
Tgt Ion	Resp	Lower	Upper
237	100		
235	61.7	49.5	74.3
272	11.9	10.2	15.4

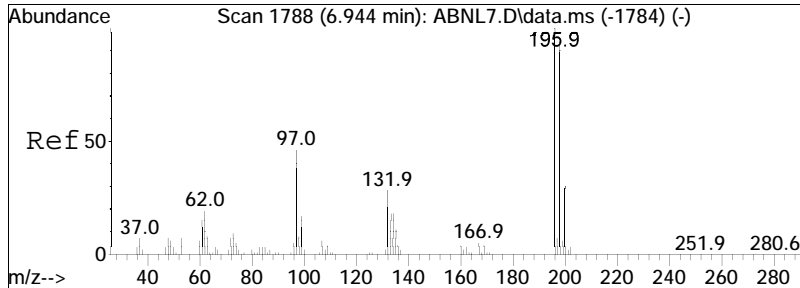




#44
 2,4,6-Trichlorophenol
 Concen: 50.21 ug/ml
 RT: 6.298 min Scan# 903
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

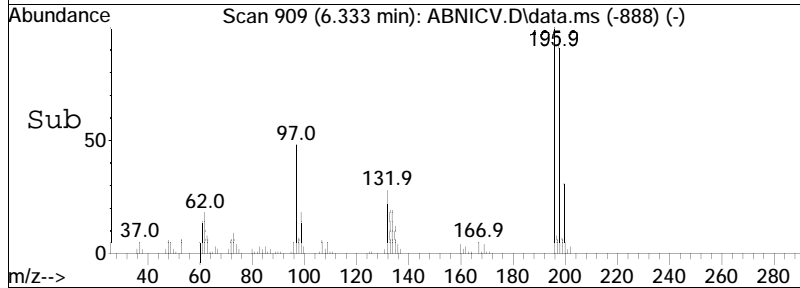
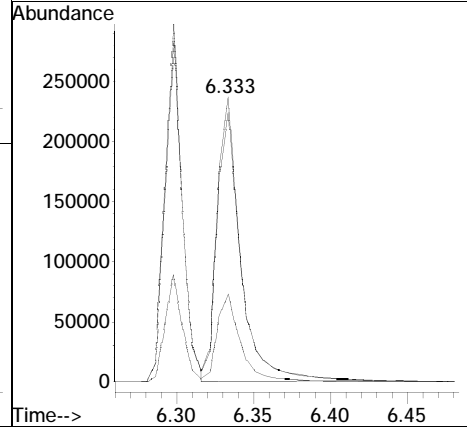
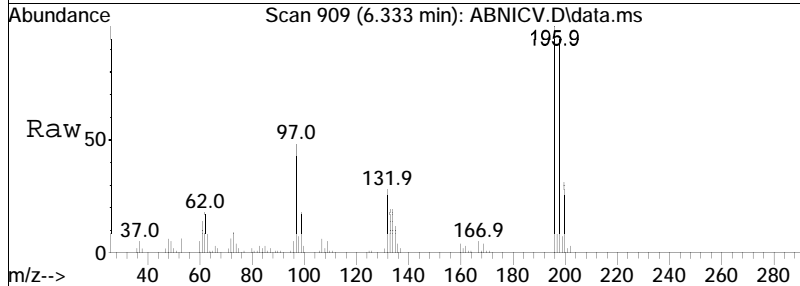
Tgt Ion	Resp	Lower	Upper
196	100		
198	95.8	76.4	114.6
200	30.2	24.4	36.6

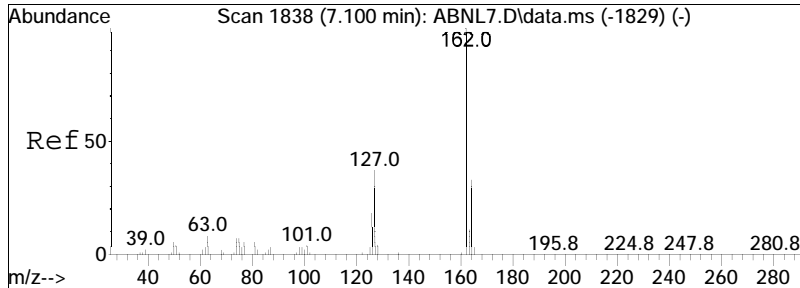




#45
 2,4,5-Trichlorophenol
 Concen: 49.53 ug/ml
 RT: 6.333 min Scan# 909
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

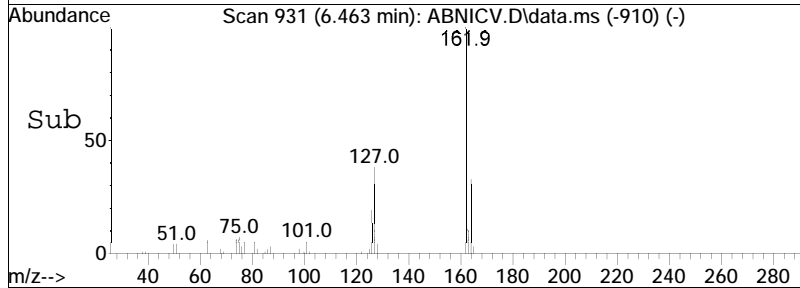
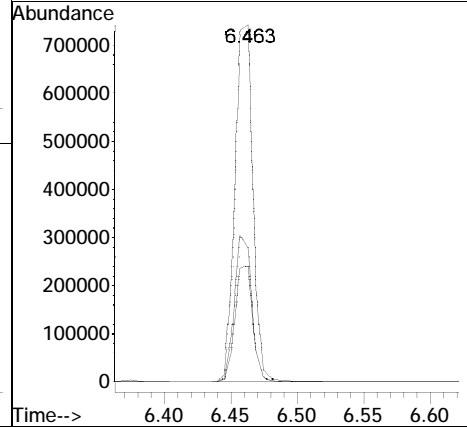
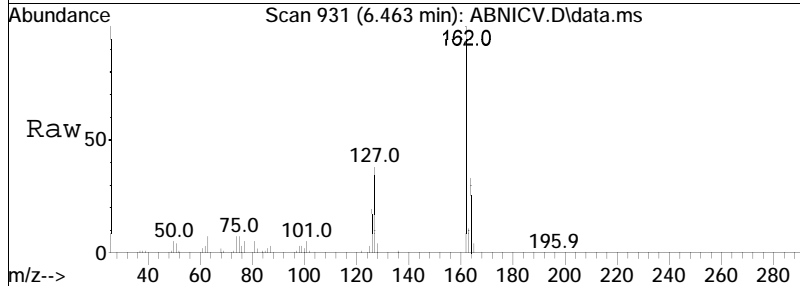
Tgt Ion	Resp	Lower	Upper
196	250296		
196	100		
200	30.7	25.2	37.8
198	95.9	77.7	116.5

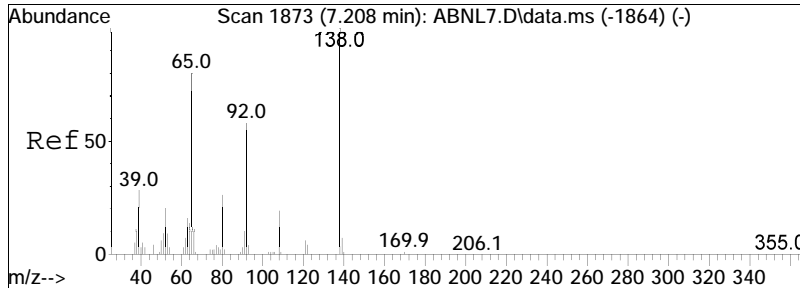




#47
 2-Chloronaphthalene
 Concen: 47.80 ug/ml
 RT: 6.463 min Scan# 931
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

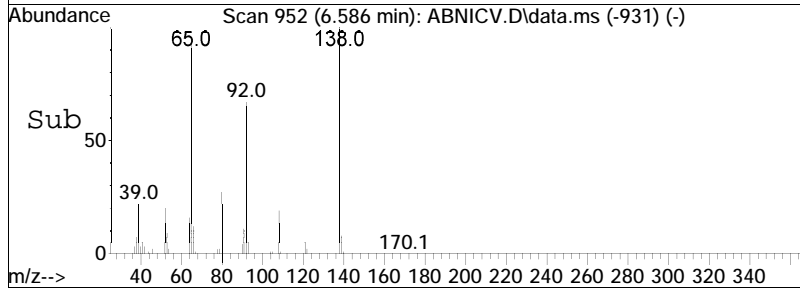
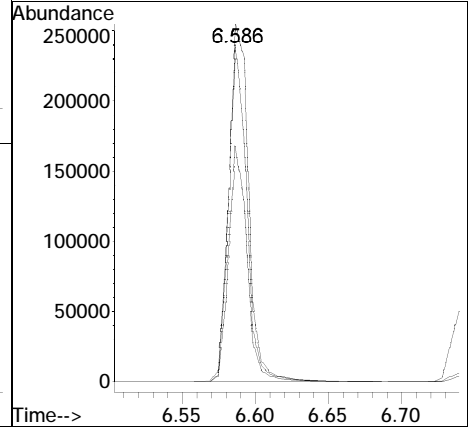
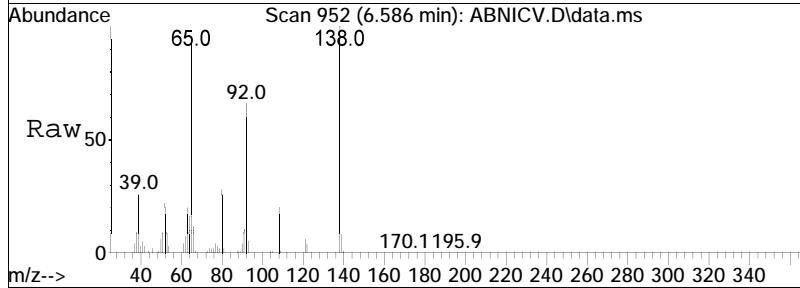
Tgt Ion	Resp	Lower	Upper
162	688438		
127	39.6	31.7	47.5
164	32.4	26.2	39.4

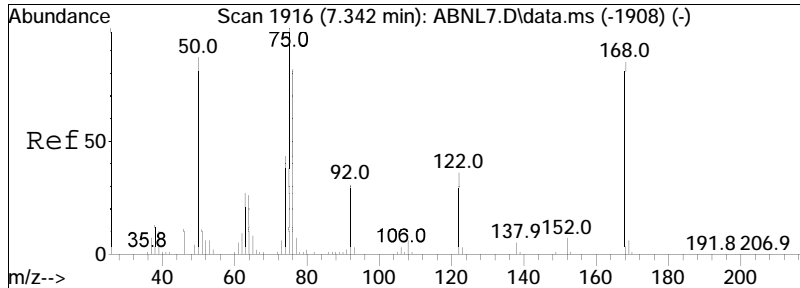




#48
 2-Nitroaniline
 Concen: 48.54 ug/ml
 RT: 6.586 min Scan# 952
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

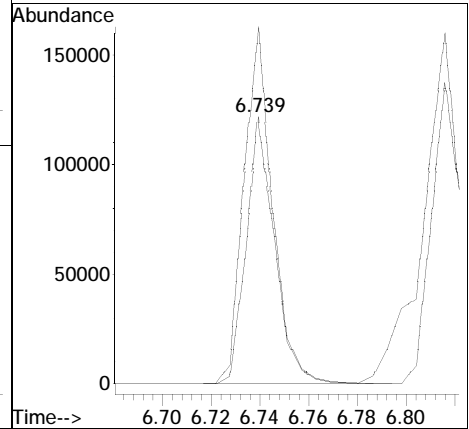
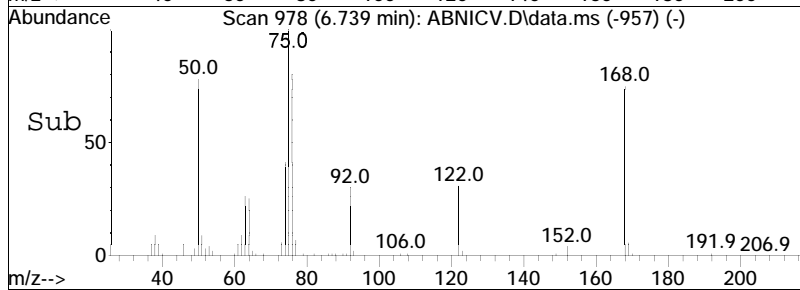
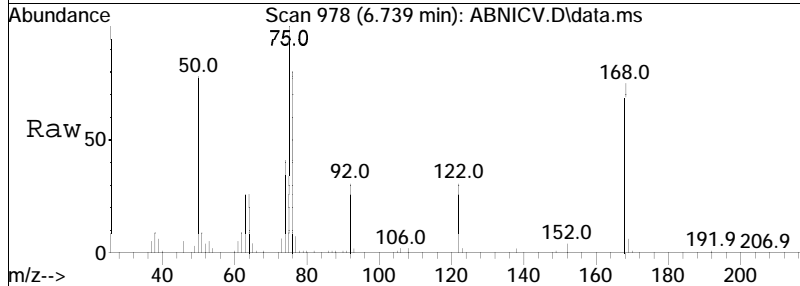
Tgt Ion	Ratio	Lower	Upper
138	100		
92	61.8	48.0	72.0
65	87.8	72.8	109.2

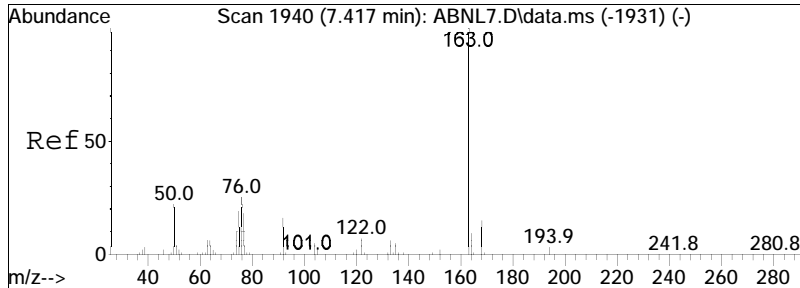




#49
 1,4-Dinitrobenzene
 Concen: 45.22 ug/ml
 RT: 6.739 min Scan# 978
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

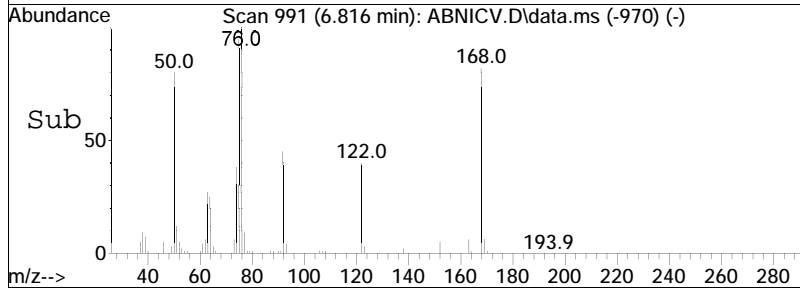
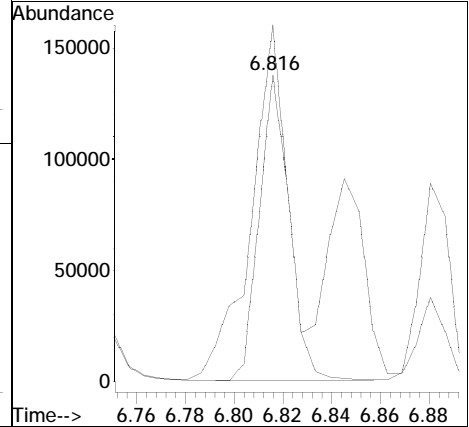
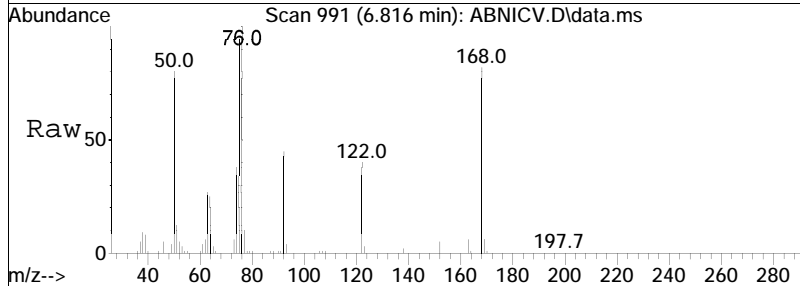
Tgt Ion	Resp	Lower	Upper
168	99150		
75	134.3	107.2	160.8

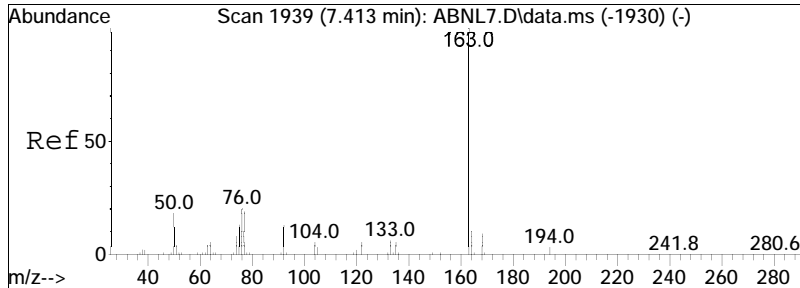




#50
 1,3-Dinitrobenzene
 Concen: 48.44 ug/ml
 RT: 6.816 min Scan# 991
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

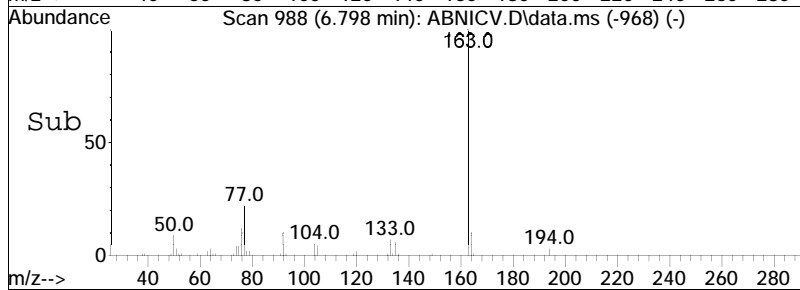
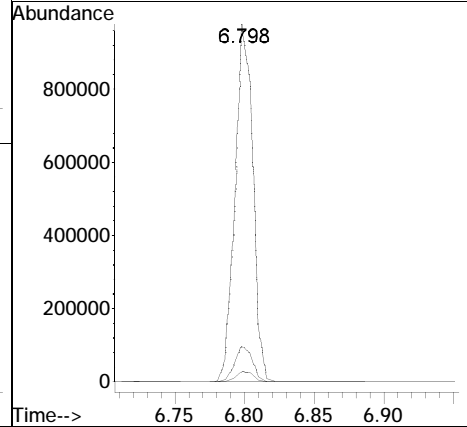
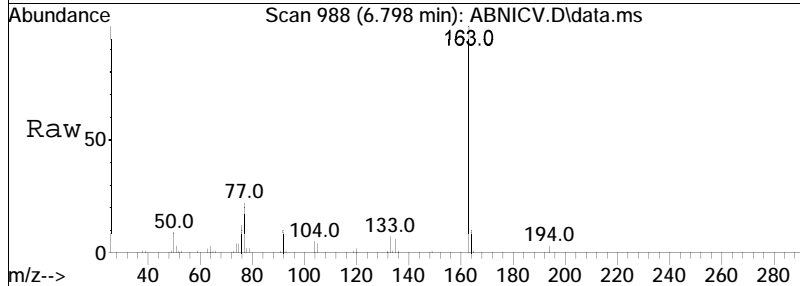
Tgt Ion	Resp	Lower	Upper
168	100		
75	138.7	112.2	168.2

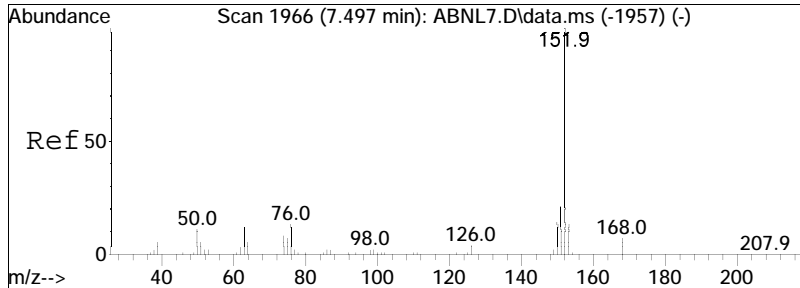




#51
 Dimethyl phthalate
 Concen: 47.30 ug/ml
 RT: 6.798 min Scan# 988
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

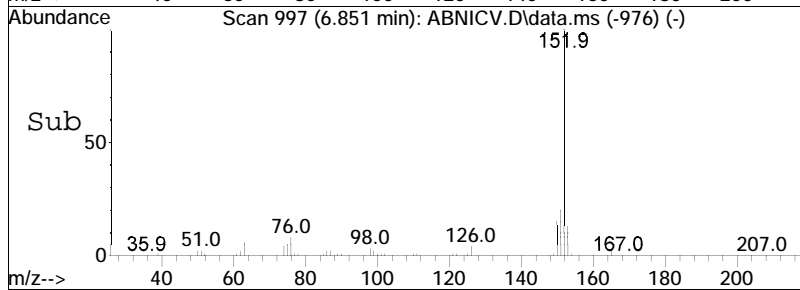
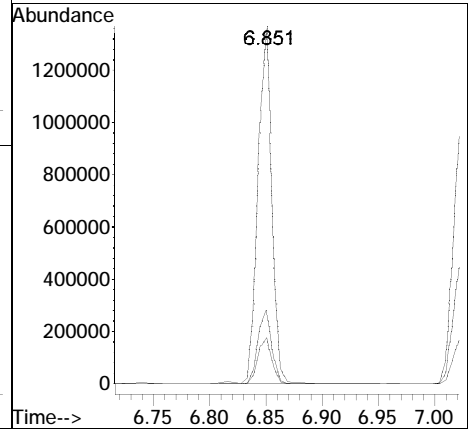
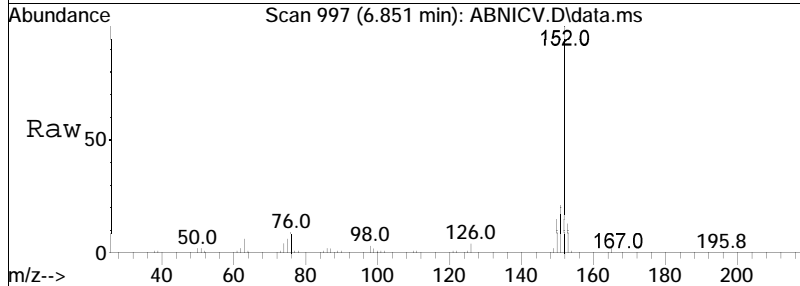
Tgt Ion	163	194	164	Resp:	853572	Lower	Upper
Ion Ratio	100	3.0	10.1				
		2.4	8.1				
		3.6	12.1				

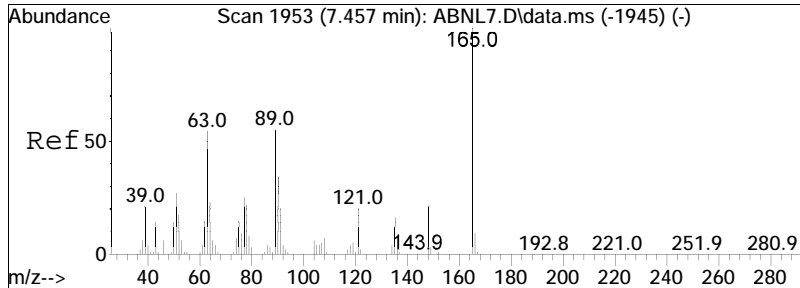




#52
 Acenaphthylene
 Concen: 51.10 ug/ml
 RT: 6.851 min Scan# 997
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

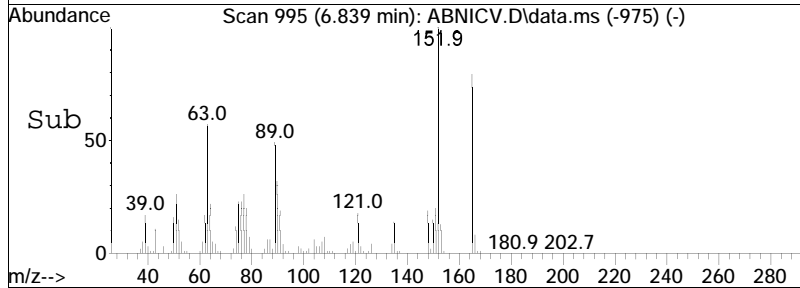
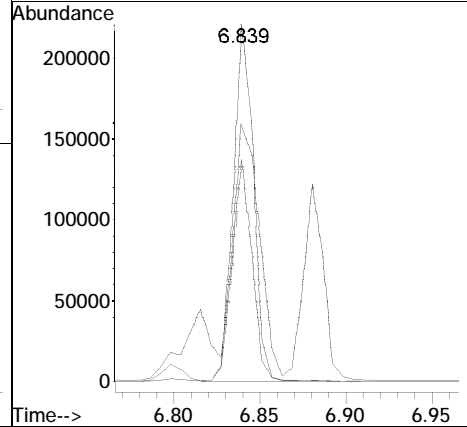
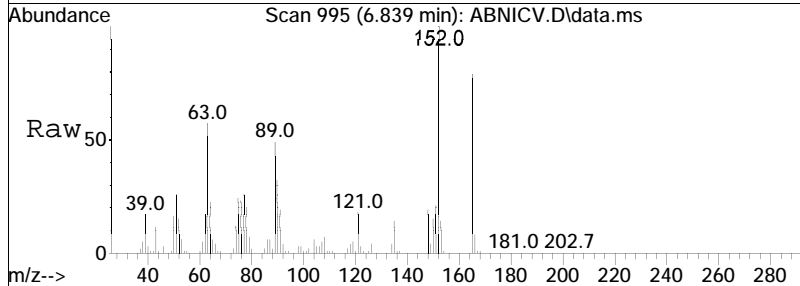
Tgt Ion	Resp	Lower	Upper
152	1177666		
152	100		
151	20.5	16.6	24.8
153	13.0	10.5	15.7

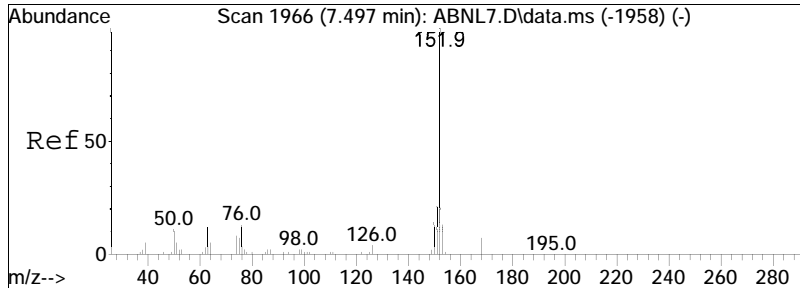




#53
 2,6-Dinitrotoluene
 Concen: 46.66 ug/ml
 RT: 6.839 min Scan# 995
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

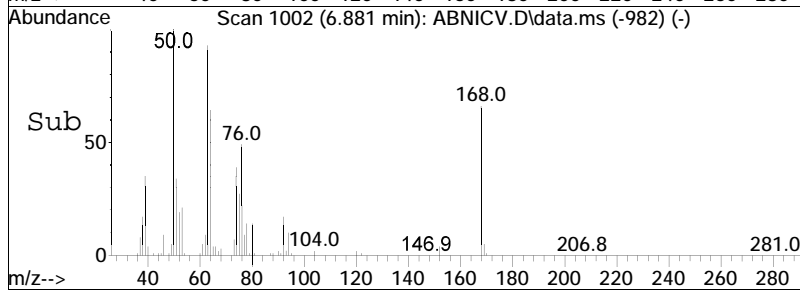
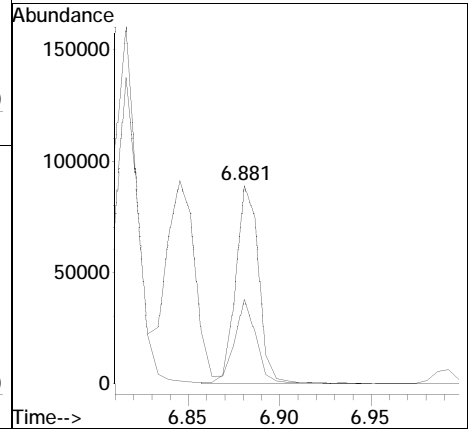
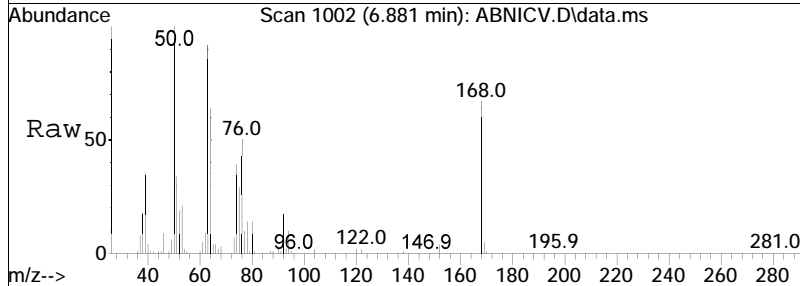
Tgt Ion	Ratio	Lower	Upper
165	100		
89	60.6	44.7	67.1
63	93.0	48.2	72.4#

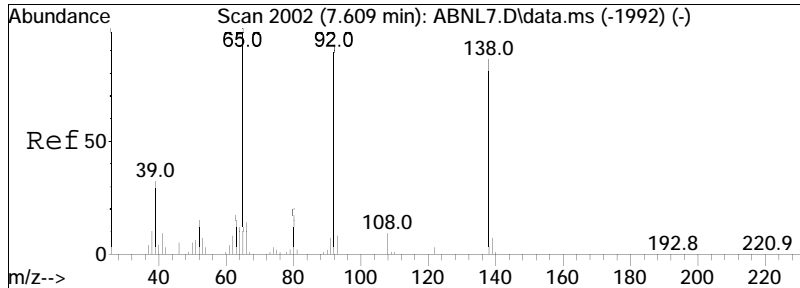




#54
 1,2-Dinitrobenzene
 Concen: 47.13 ug/ml
 RT: 6.881 min Scan# 1002
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

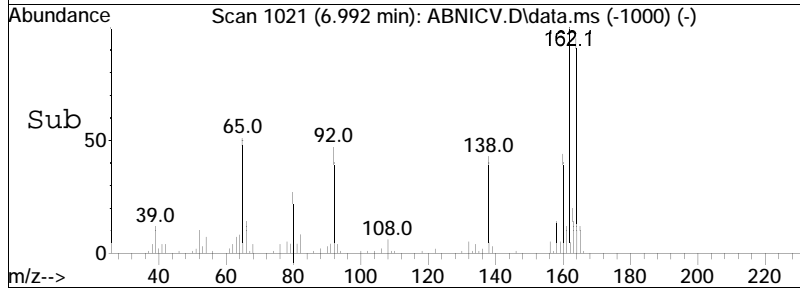
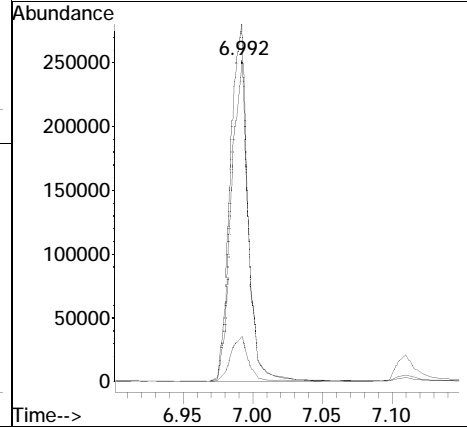
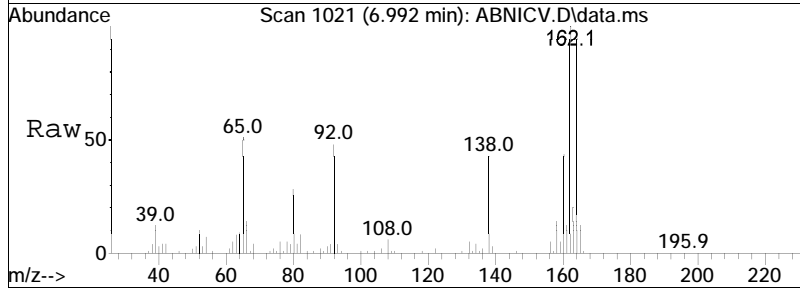
Tgt Ion: 168 Resp: 77963
 Ion Ratio Lower Upper
 168 100
 75 39.5 104.8 157.2#

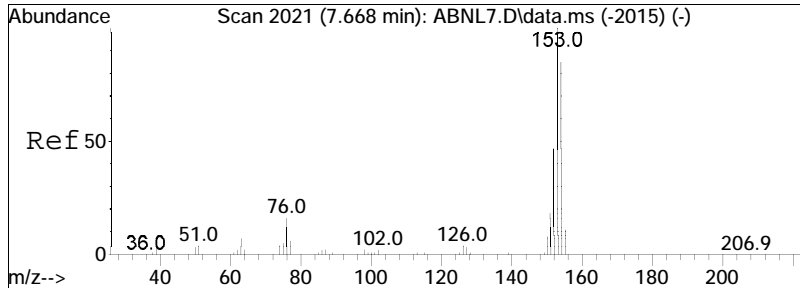




#64
 3-Nitroaniline
 Concen: 48.04 ug/ml
 RT: 6.992 min Scan# 1021
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

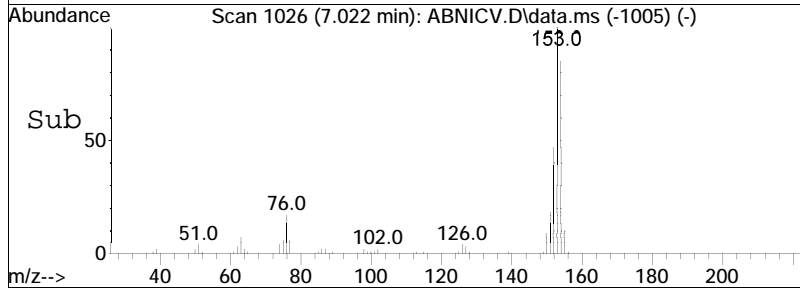
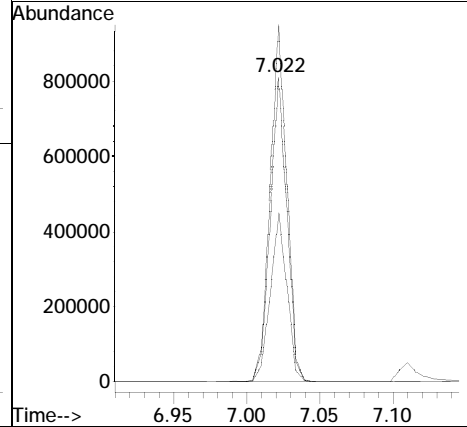
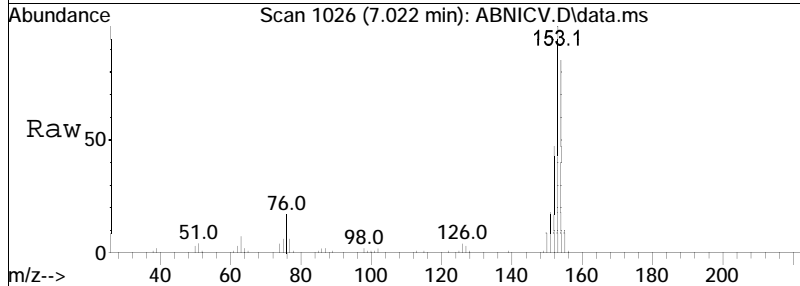
Tgt Ion	Resp	Lower	Upper
138	210663		
92	114.7	86.4	129.6
108	15.2	9.4	14.0#

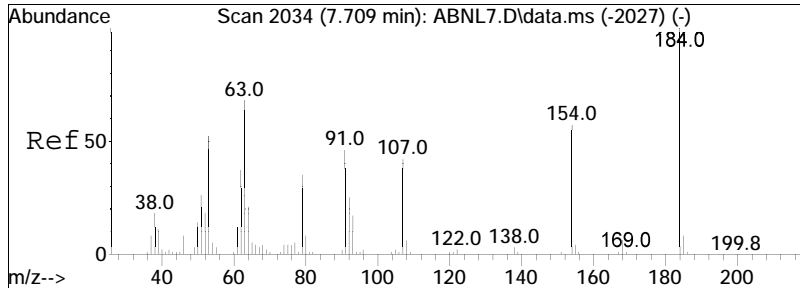




#65
 Acenaphthene
 Concen: 46.36 ug/ml
 RT: 7.022 min Scan# 1026
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

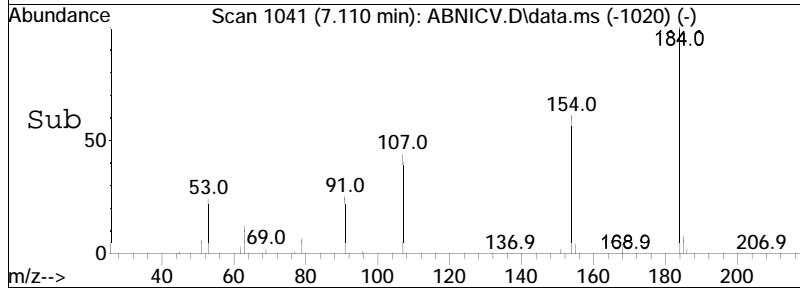
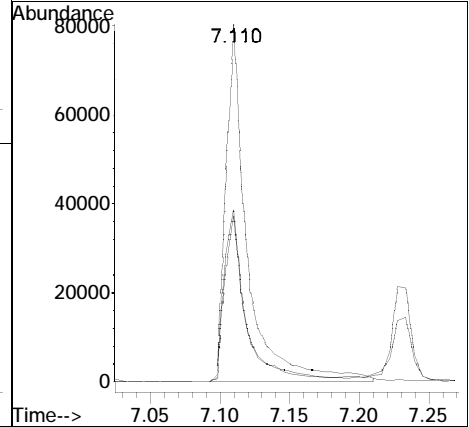
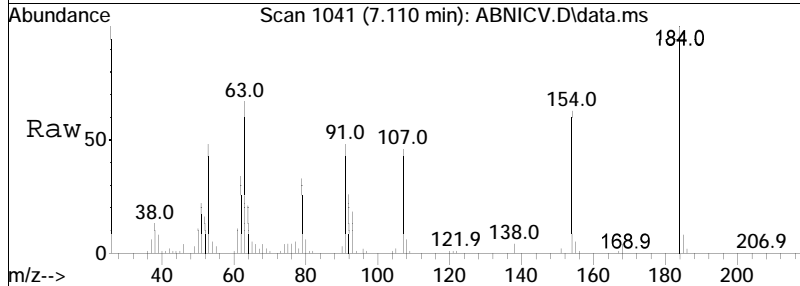
Tgt Ion	Resp	Lower	Upper
154	639767		
153	117.7	94.2	141.2
152	55.5	44.1	66.1

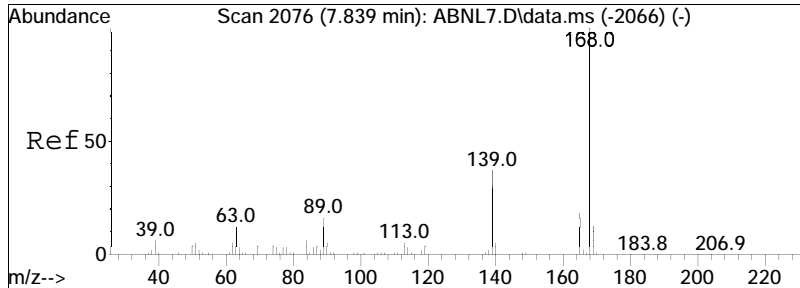




#66
 2,4-Dinitrophenol
 Concen: 41.44 ug/ml
 RT: 7.110 min Scan# 1041
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

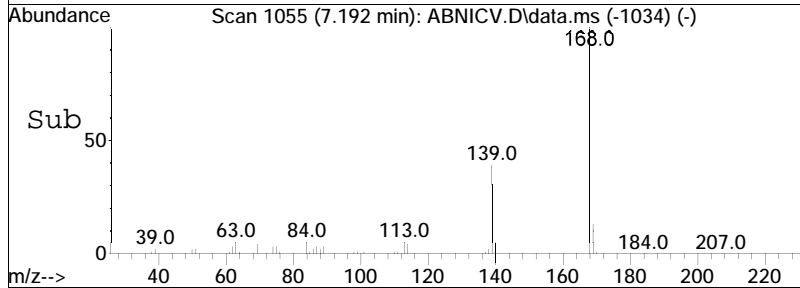
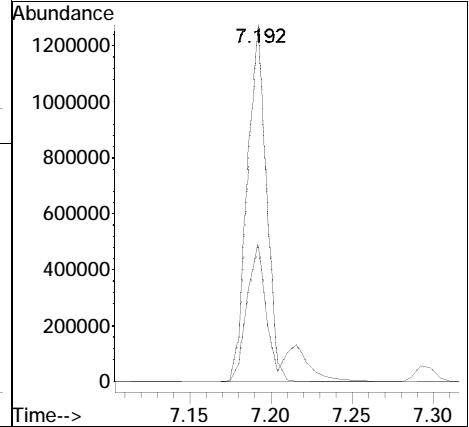
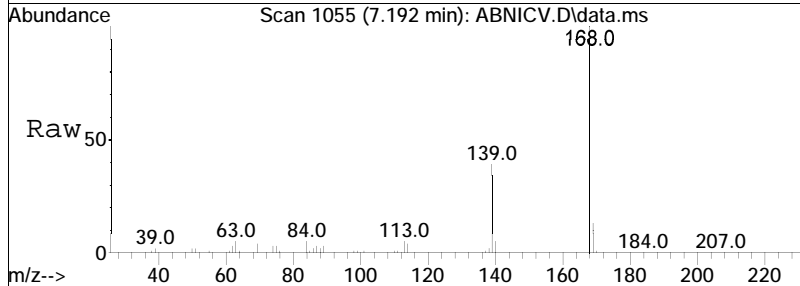
Tgt Ion	Resp	Lower	Upper
184	86267		
184	100		
107	46.8	37.3	55.9
91	50.1	43.8	65.6

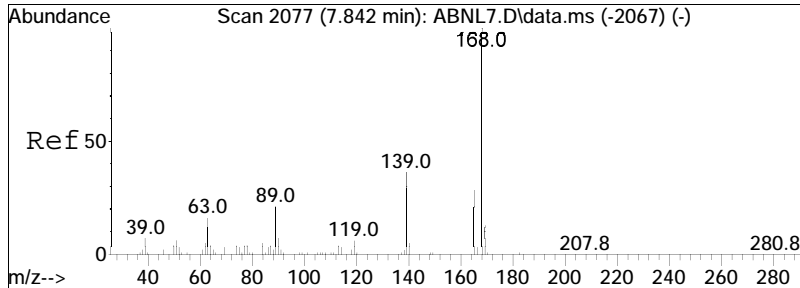




#67
 Dibenzofuran
 Concen: 48.02 ug/ml
 RT: 7.192 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

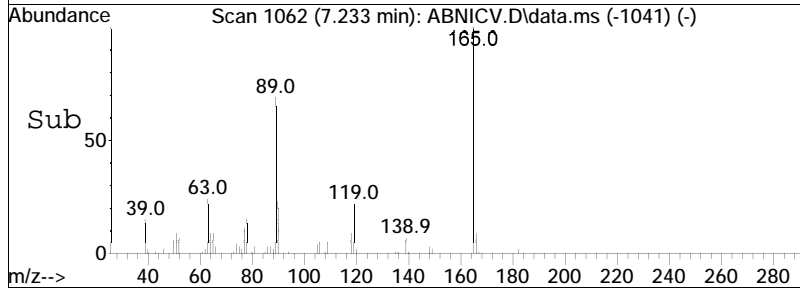
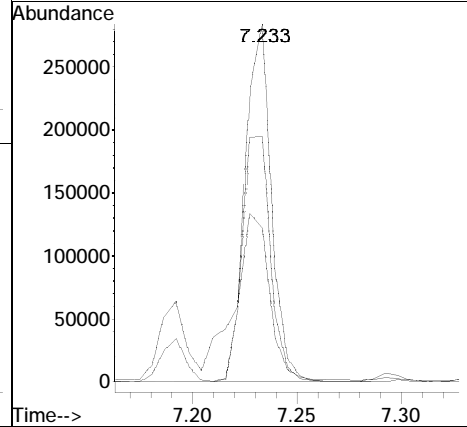
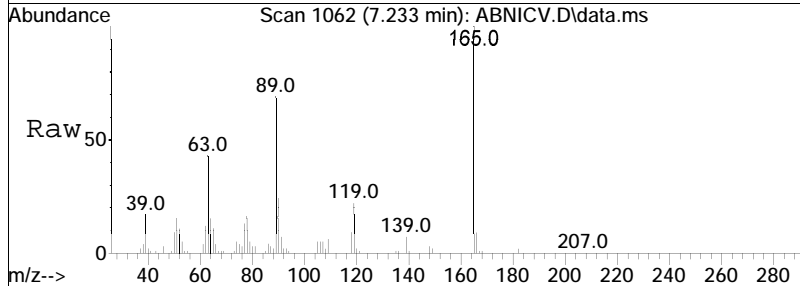
Tgt Ion:	168	Resp:	1030236
Ion Ratio	Lower	Upper	
168	100		
139	42.3	30.4	45.6

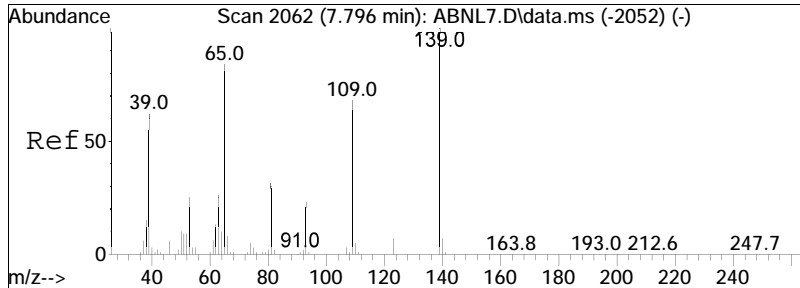




#68
 2,4-Dinitrotoluene
 Concen: 49.29 ug/ml
 RT: 7.233 min Scan# 1062
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

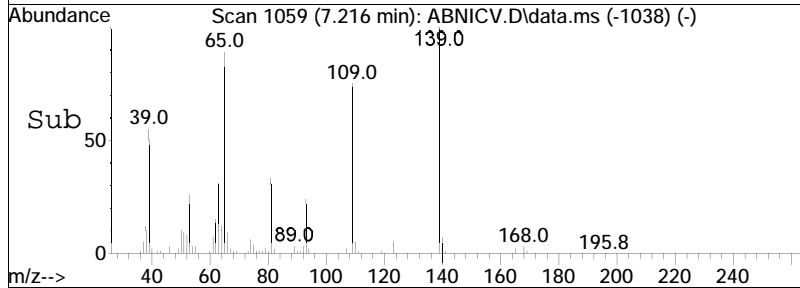
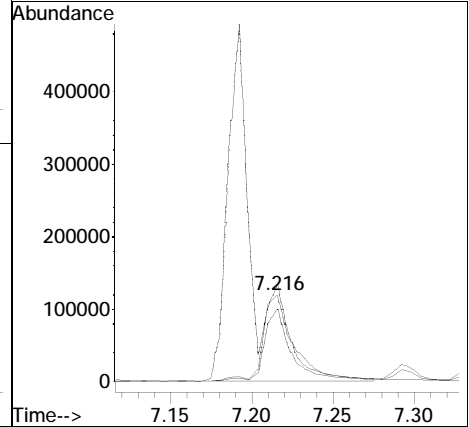
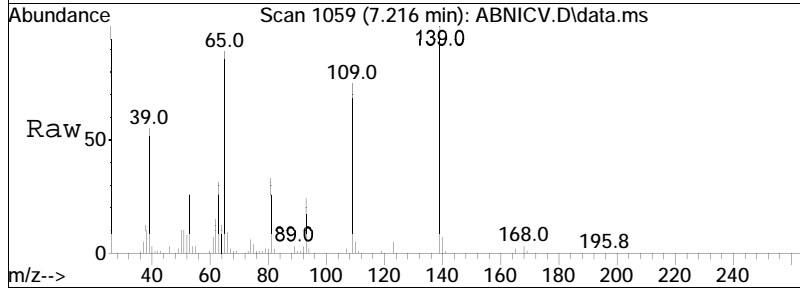
Tgt Ion	Ratio	Lower	Upper
165	100		
89	74.7	69.8	104.8
63	62.8	59.2	88.8

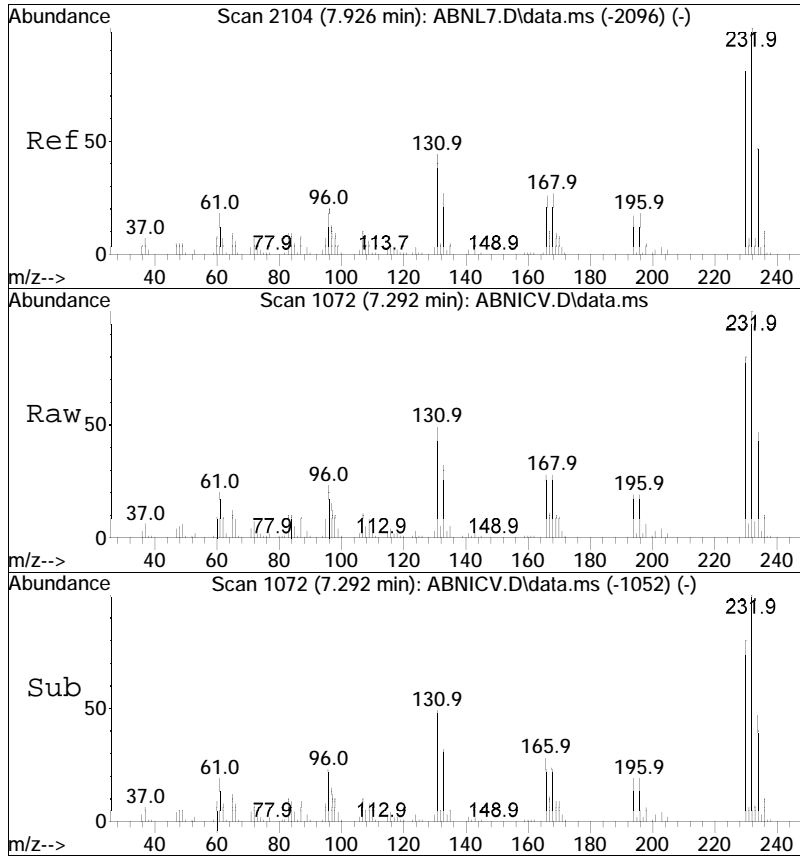




#69
 4-Nitrophenol
 Concen: 48.10 ug/ml
 RT: 7.216 min Scan# 1059
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

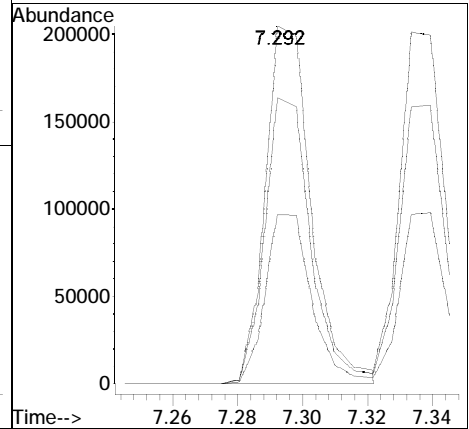
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
65	100		
109	75.4	52.8	79.2
139	279.3	84.1	126.1#

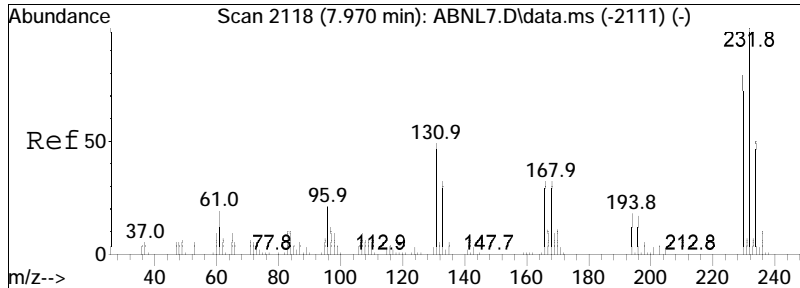




#70
 2,3,5,6-Tetrachlorophenol
 Concen: 48.83 ug/ml
 RT: 7.292 min Scan# 1072
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

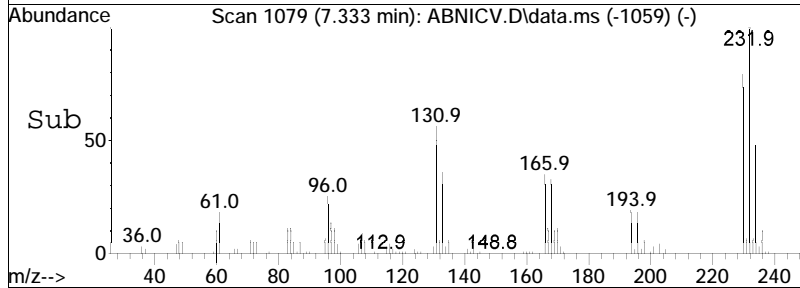
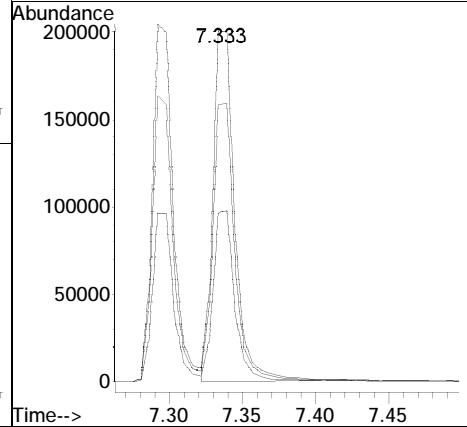
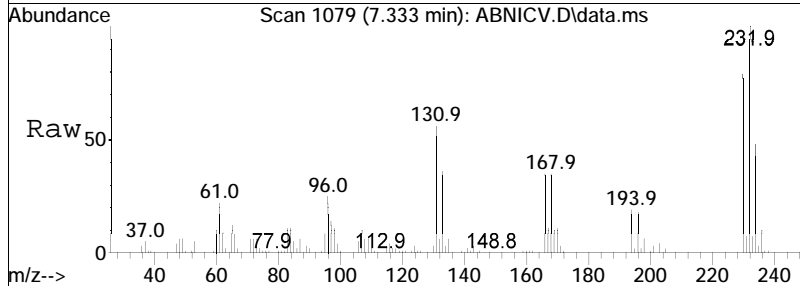
Tgt Ion	Resp	Lower	Upper
232	100		
230	79.9	63.4	95.0
234	48.0	38.0	57.0

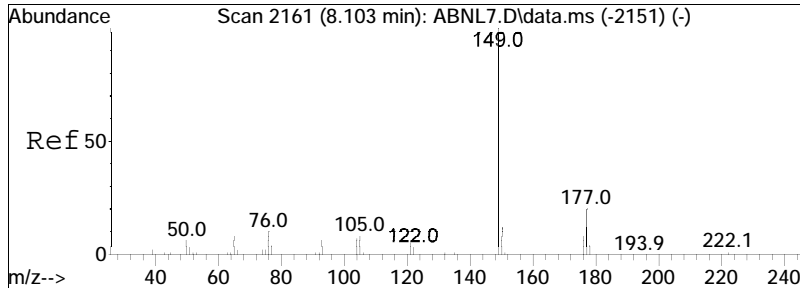




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 47.88 ug/ml
 RT: 7.333 min Scan# 1079
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

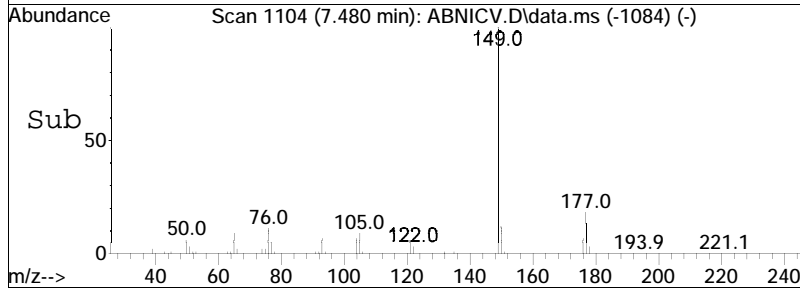
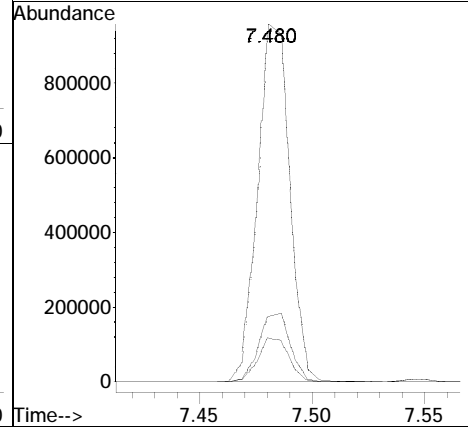
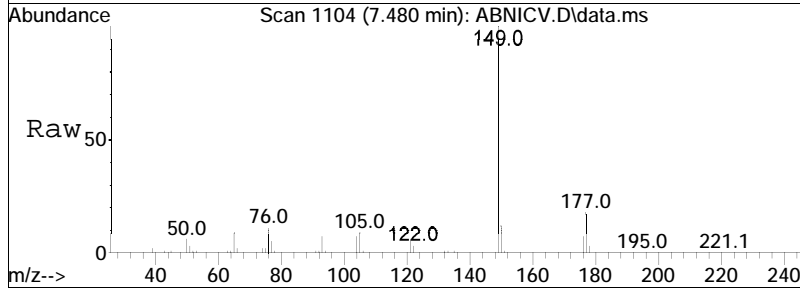
Tgt Ion	Resp	Lower	Upper
232	100		
230	78.9	62.8	94.2
234	47.8	38.3	57.5

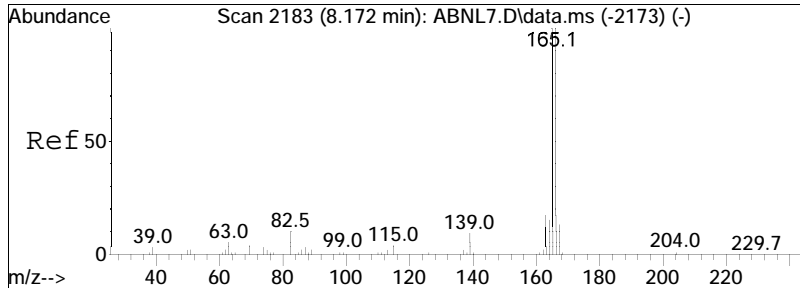




#72
 Diethyl phthalate
 Concen: 47.13 ug/ml
 RT: 7.480 min Scan# 1104
 Delta R.T. -0.007 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

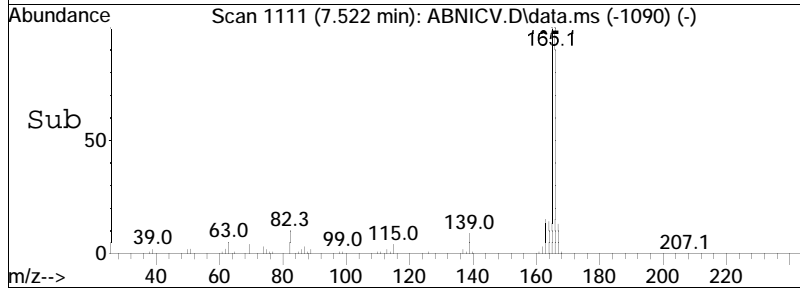
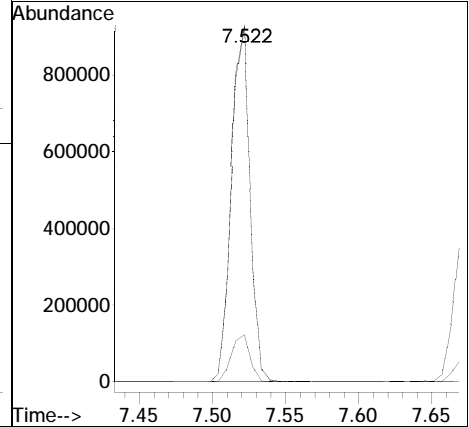
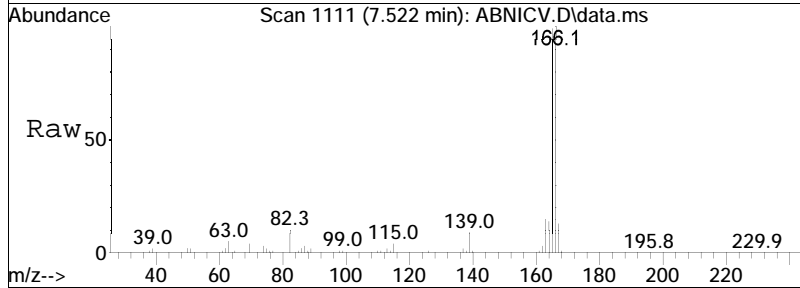
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.0	15.6	23.4
150	12.1	9.6	14.4

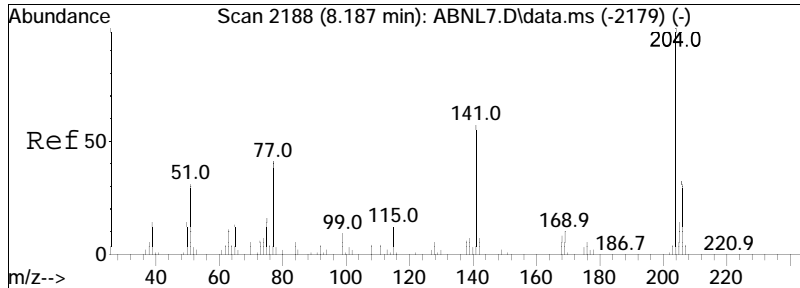




#73
 Fluorene
 Concen: 47.53 ug/ml
 RT: 7.522 min Scan# 1111
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

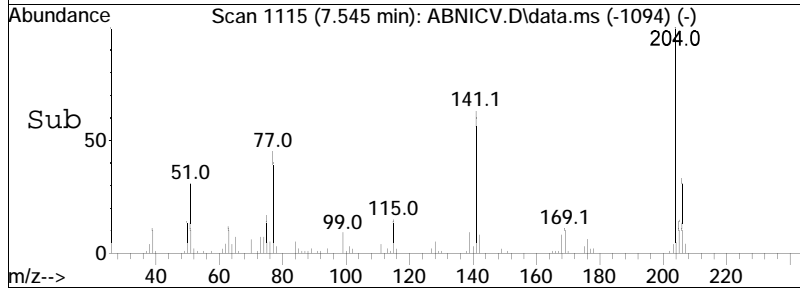
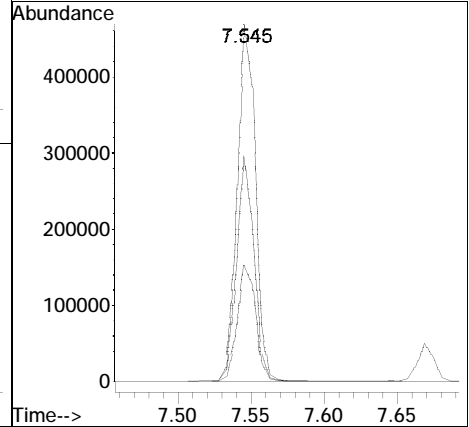
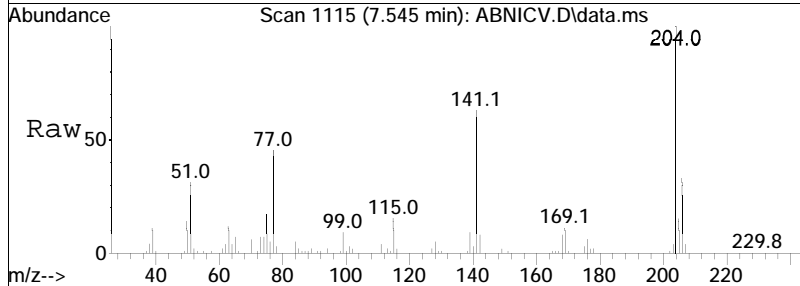
Tgt Ion	Resp	Lower	Upper
166	100		
165	99.0	80.4	120.6
167	13.6	10.7	16.1

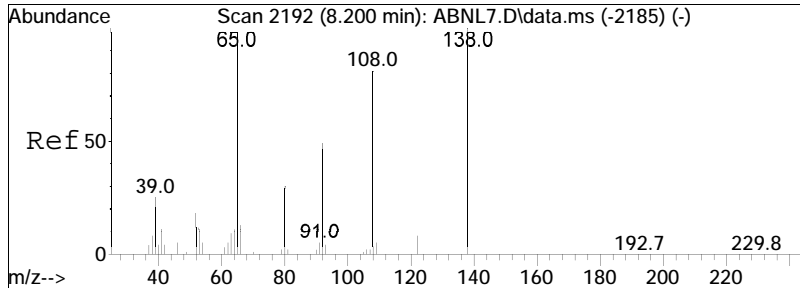




#74
 4-Chlorophenyl phenyl ether
 Concen: 47.88 ug/ml
 RT: 7.545 min Scan# 1115
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

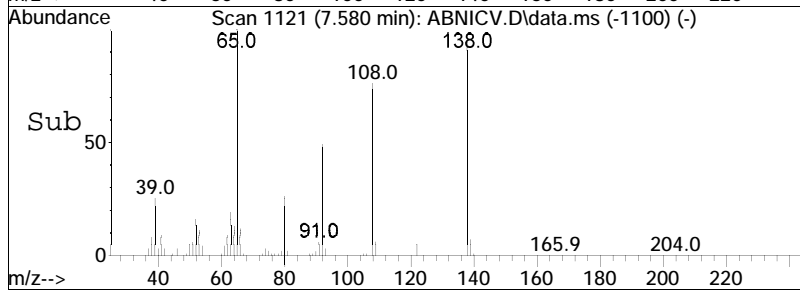
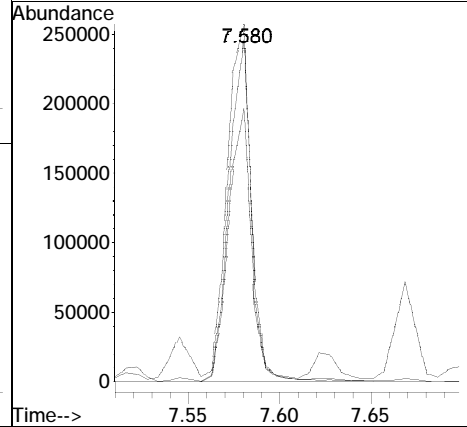
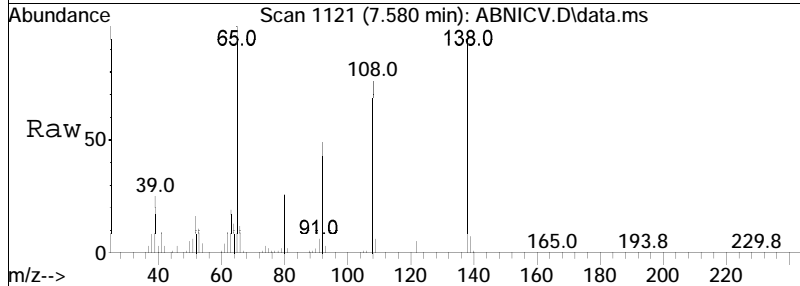
Tgt Ion	Resp	Lower	Upper
204	401641		
206	33.0	26.0	39.0
141	60.4	48.5	72.7

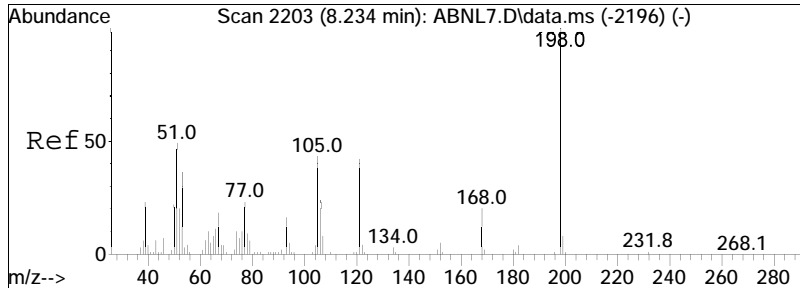




#75
 4-Nitroaniline
 Concen: 48.34 ug/ml
 RT: 7.580 min Scan# 1121
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

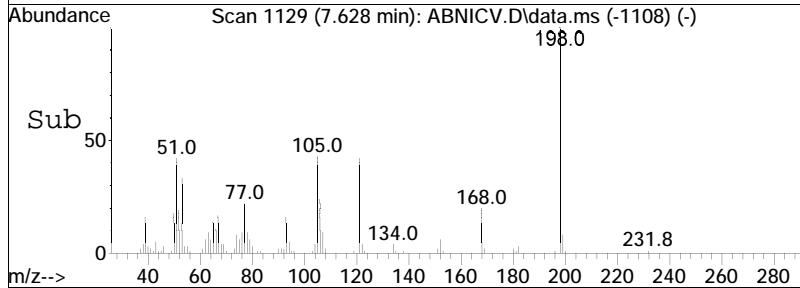
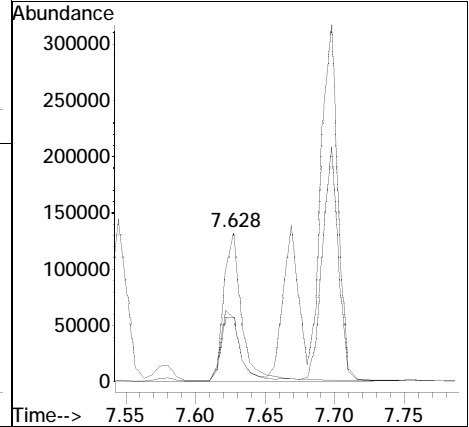
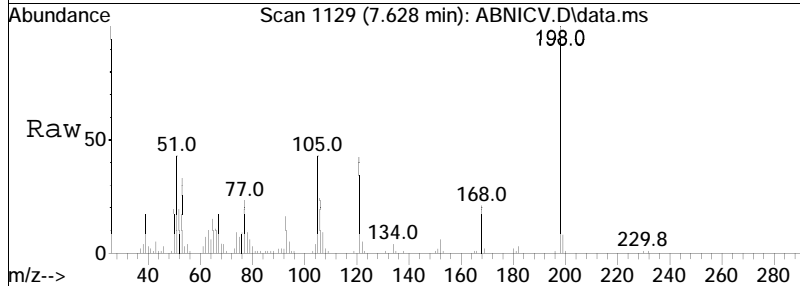
Tgt Ion	Resp	Lower	Upper
138	207545		
138	100		
108	81.3	54.4	81.6
65	106.8	100.1	150.1

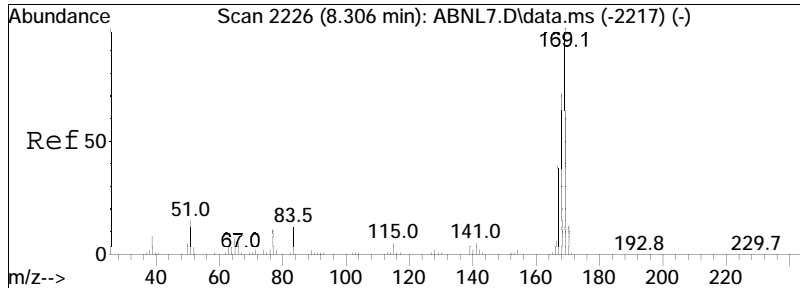




#76
 4,6-Dinitro-o-cresol
 Concen: 46.21 ug/ml
 RT: 7.628 min Scan# 1129
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

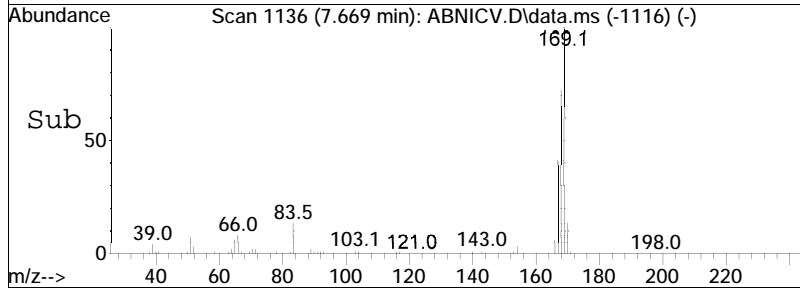
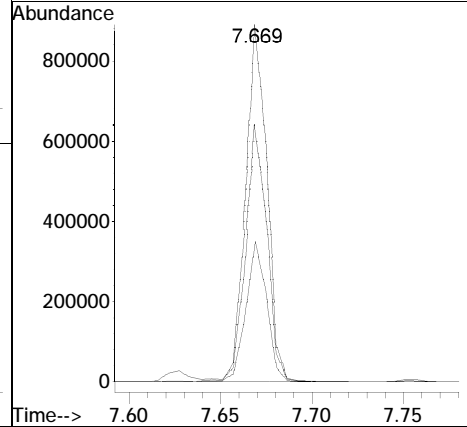
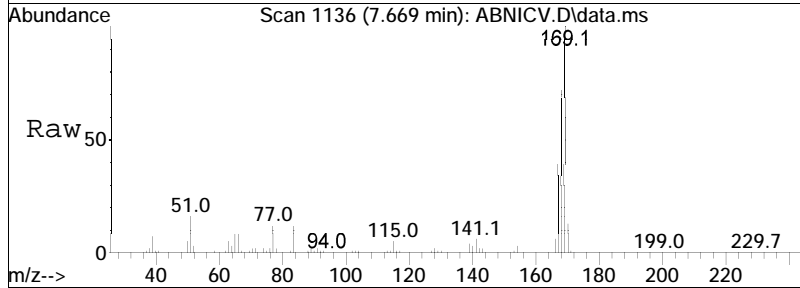
Tgt Ion	Ratio	Lower	Upper
198	100		
51	48.2	48.3	72.5#
105	46.0	38.4	57.6

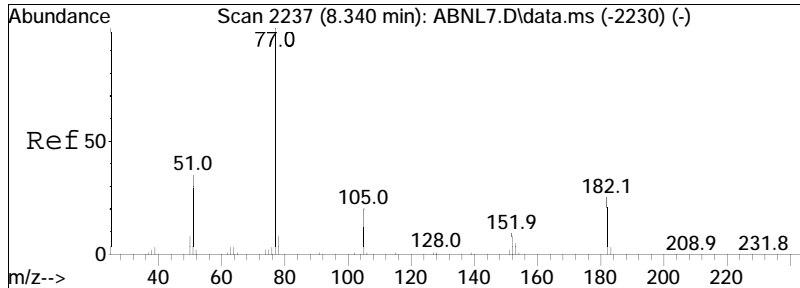




#77
 NDPA/DPA
 Concen: 47.98 ug/ml
 RT: 7.669 min Scan# 1136
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

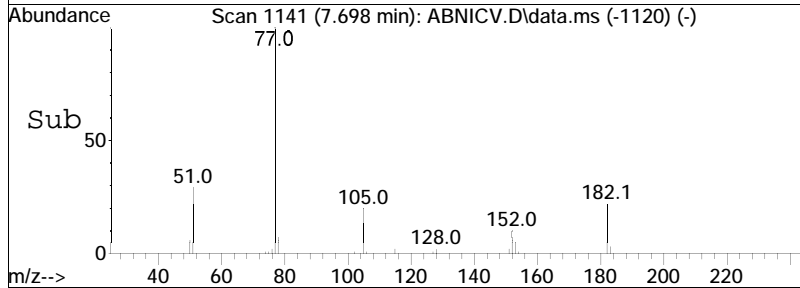
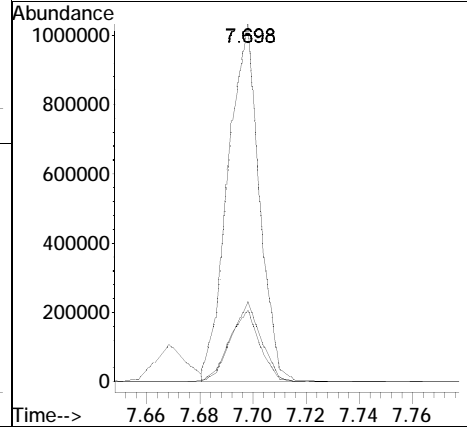
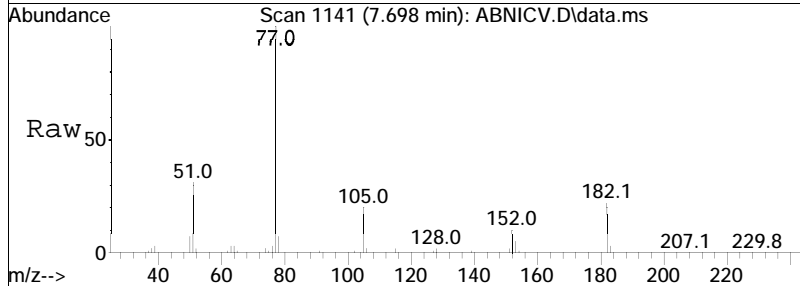
Tgt Ion	Resp	Lower	Upper
169	100		
168	72.3	57.2	85.8
167	39.3	31.0	46.4

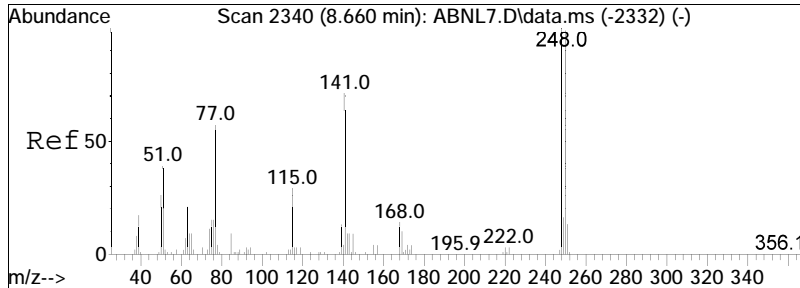




#78
 Azobenzene
 Concen: 46.86 ug/ml
 RT: 7.698 min Scan# 1141
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

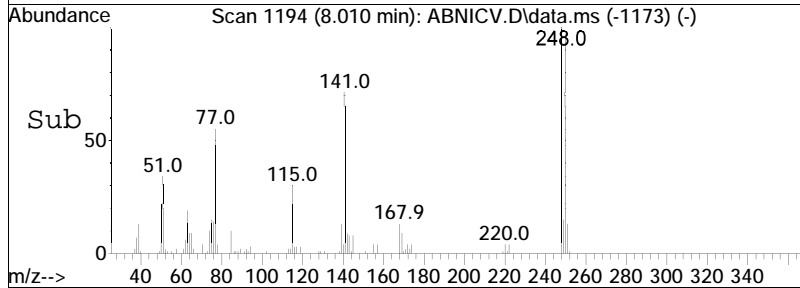
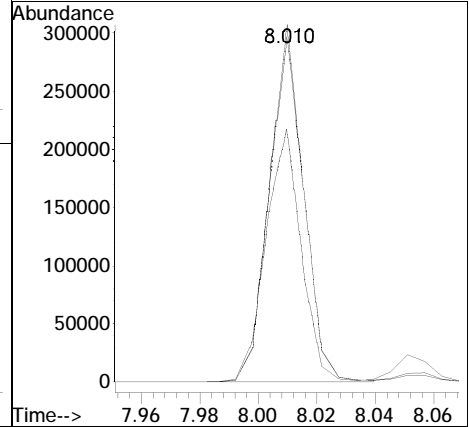
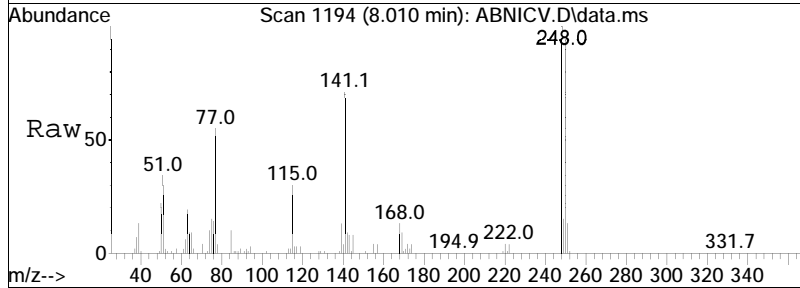
Tgt Ion	Resp	Lower	Upper
77	100		
182	21.6	17.2	25.8
105	19.9	17.1	25.7

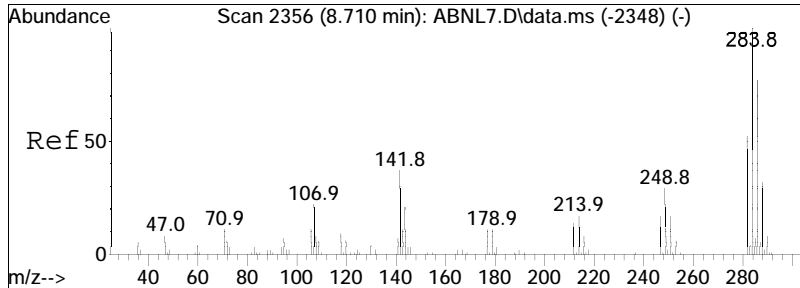




#80
 4-Bromophenyl phenyl ether
 Concen: 47.82 ug/ml
 RT: 8.010 min Scan# 1194
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

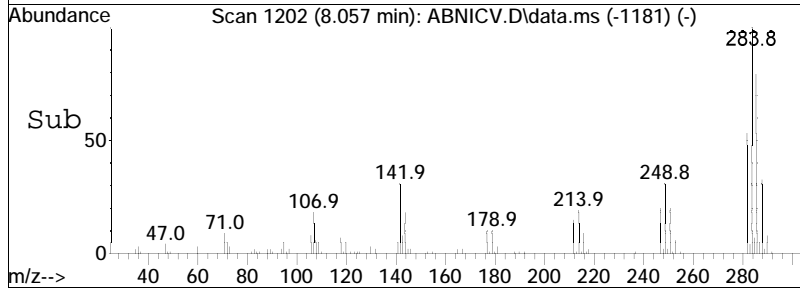
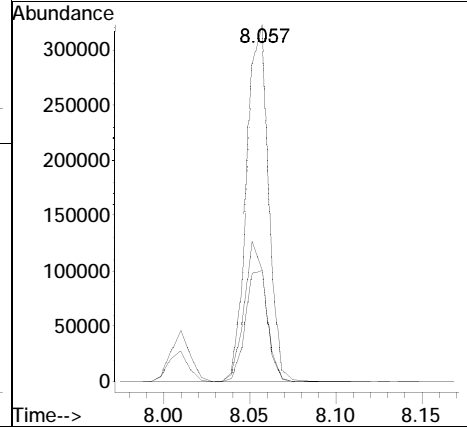
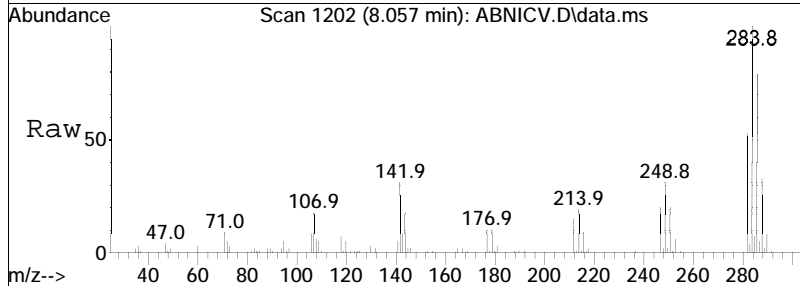
Tgt Ion	Ratio	Lower	Upper
248	100		
141	73.3	59.9	89.9
250	98.0	78.0	117.0

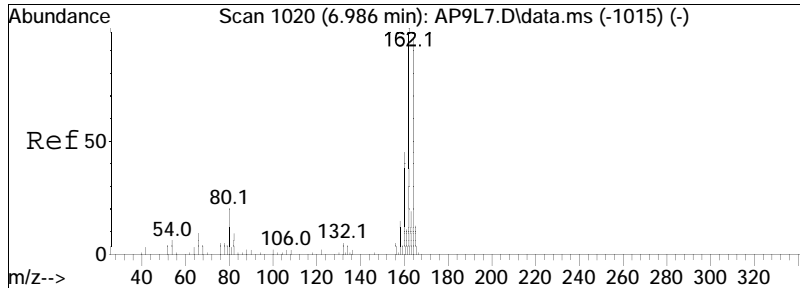




#81
 Hexachlorobenzene
 Concen: 47.72 ug/ml
 RT: 8.057 min Scan# 1202
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

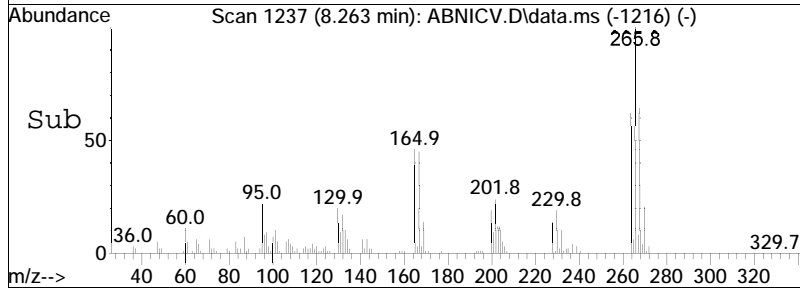
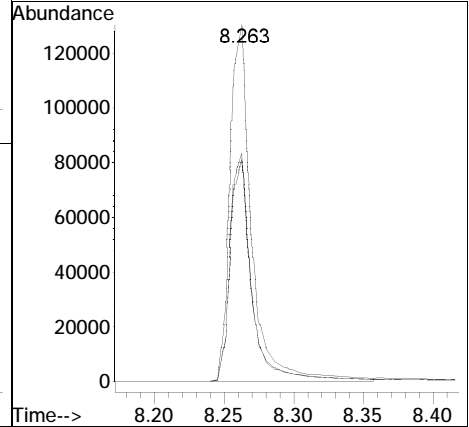
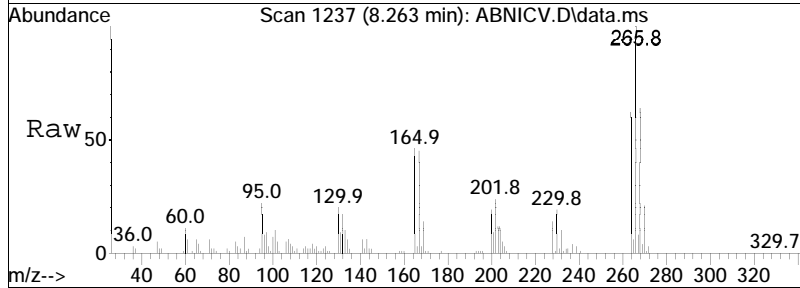
Tgt Ion	Resp	Lower	Upper
284	100		
142	38.5	30.6	46.0
249	32.5	24.2	36.2

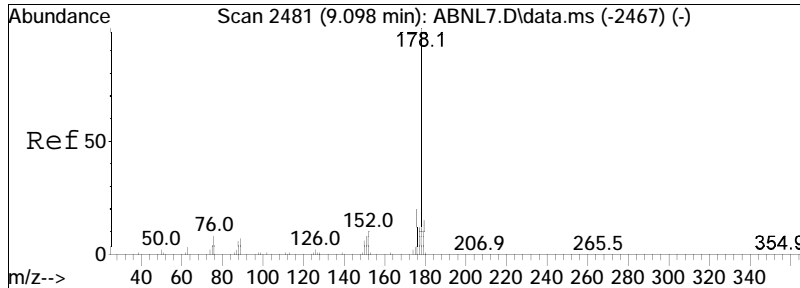




#82
 Pentachlorophenol
 Concen: 49.67 ug/ml
 RT: 8.263 min Scan# 1237
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

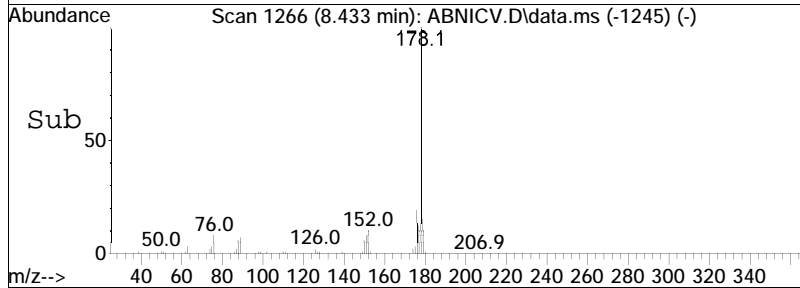
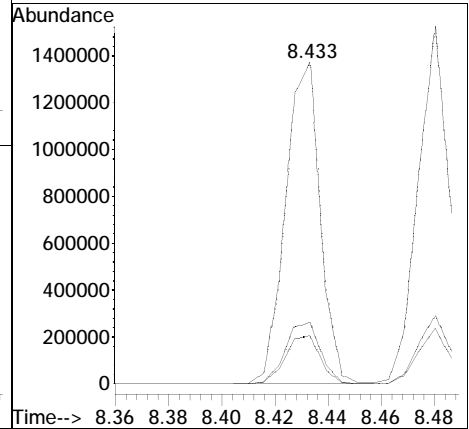
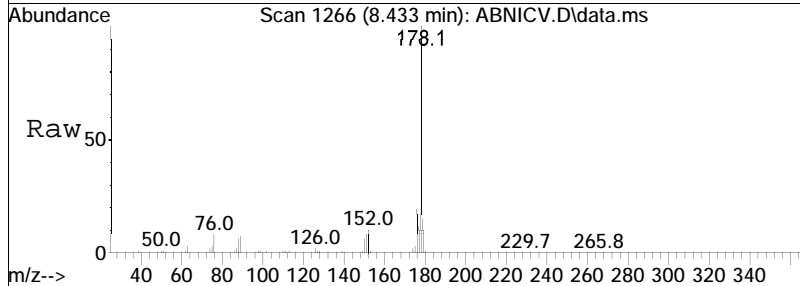
Tgt Ion	Resp	Lower	Upper
266	140889		
266	100		
264	62.3	50.2	75.4
268	64.1	50.7	76.1

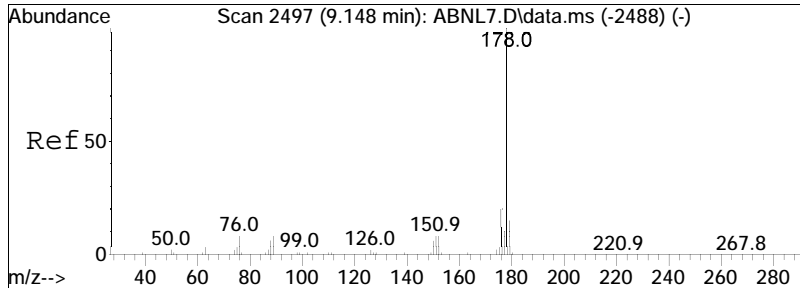




#89
 Phenanthrene
 Concen: 46.26 ug/ml
 RT: 8.433 min Scan# 1266
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

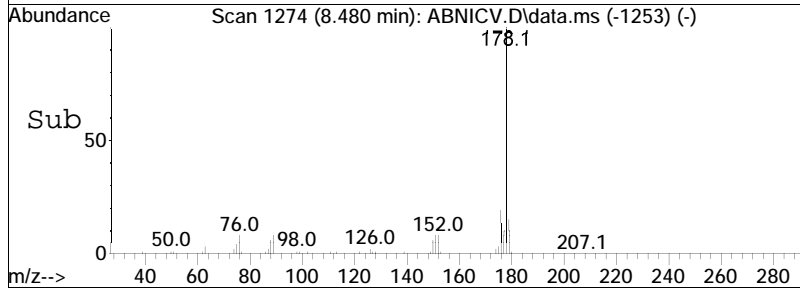
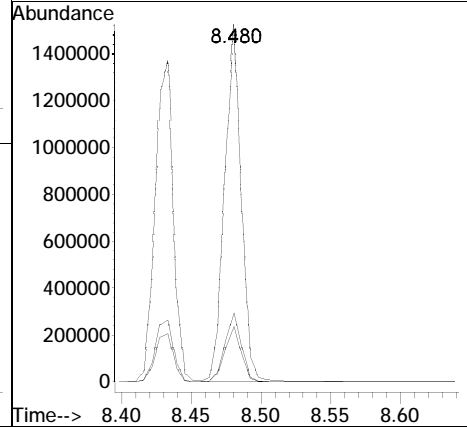
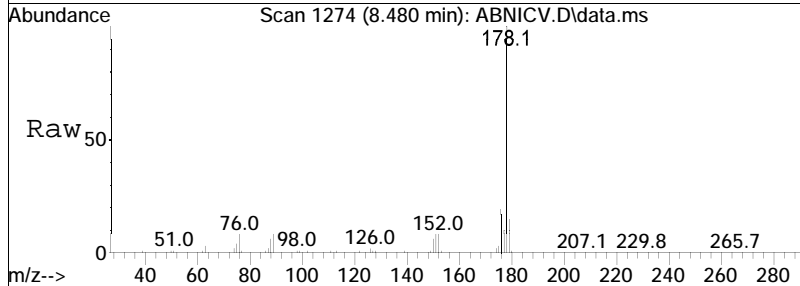
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.2	12.2	18.4
176	19.5	15.5	23.3

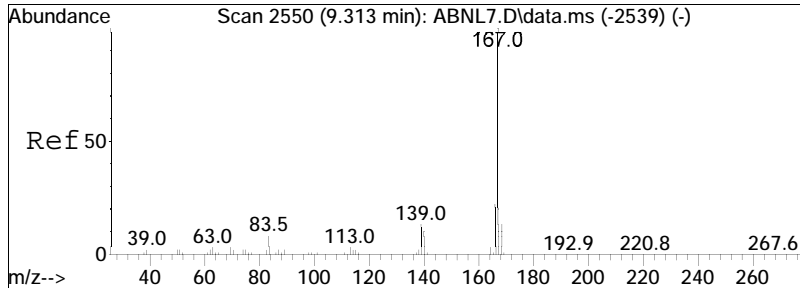




#90
 Anthracene
 Concen: 47.29 ug/ml
 RT: 8.480 min Scan# 1274
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

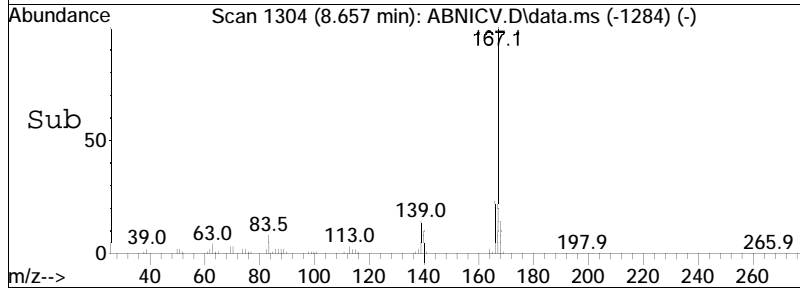
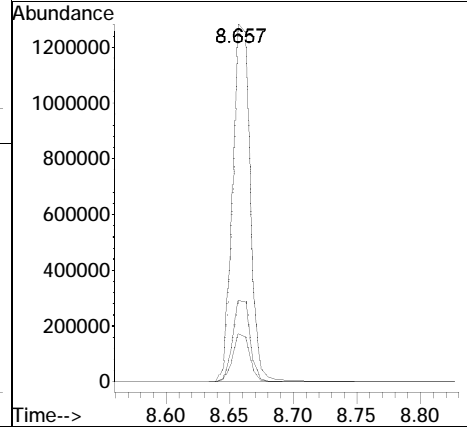
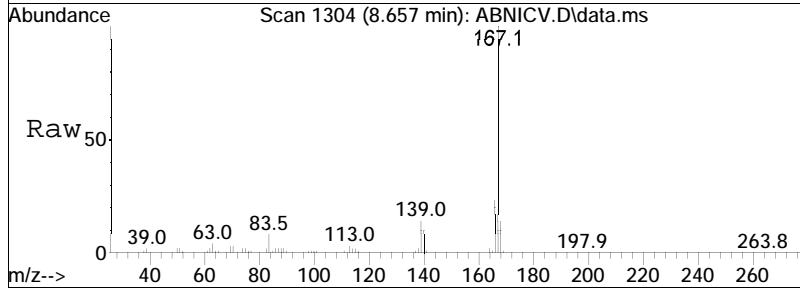
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.3	12.3	18.5
176	19.1	15.0	22.6

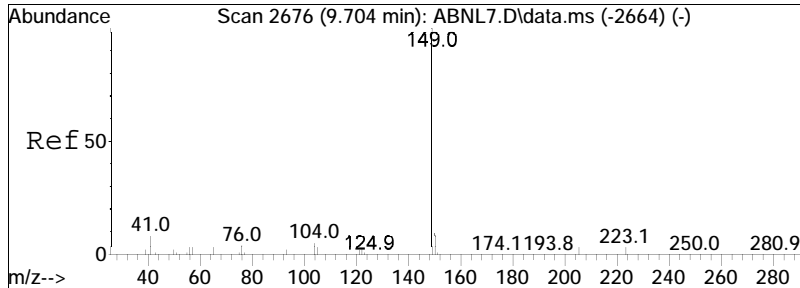




#91
 Carbazole
 Concen: 47.06 ug/ml
 RT: 8.657 min Scan# 1304
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

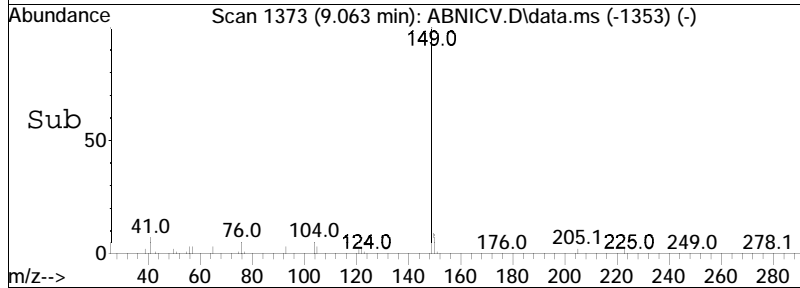
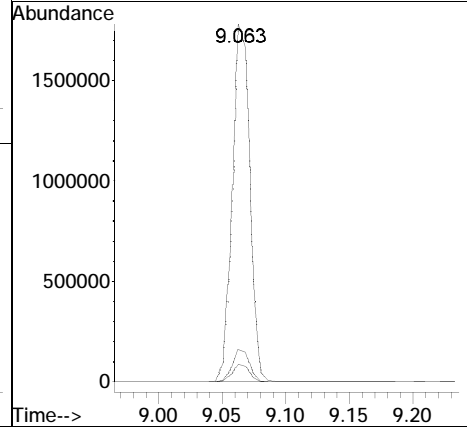
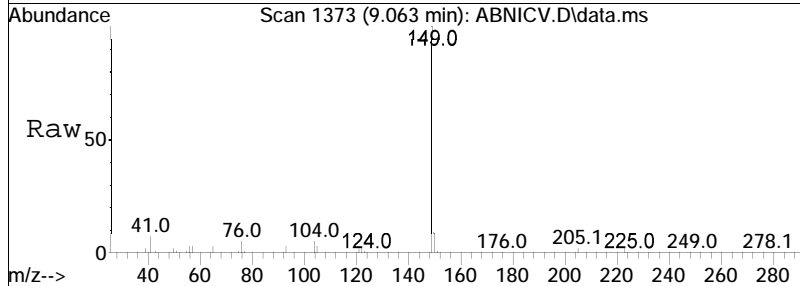
Tgt Ion	Resp	Lower	Upper
167	100		
168	13.5	10.6	16.0
166	22.9	18.0	27.0

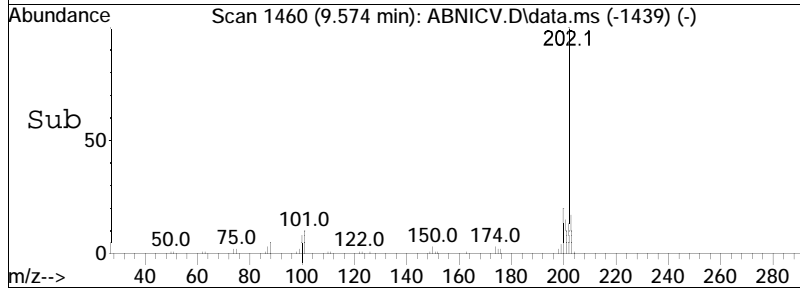
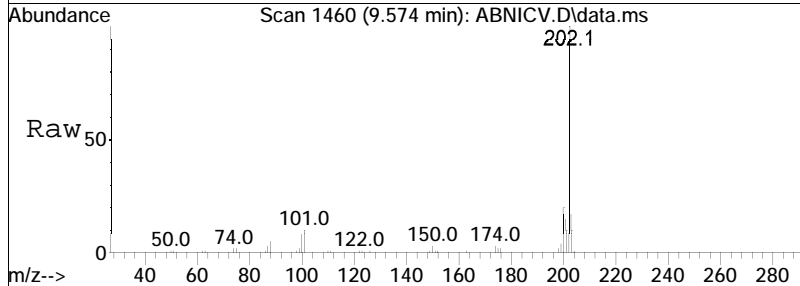
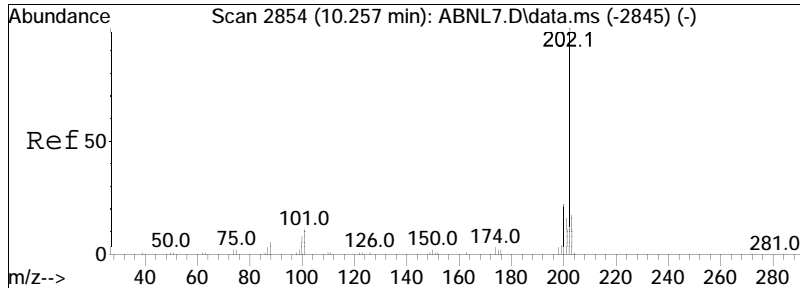




#92
 Di-n-butylphthalate
 Concen: 47.54 ug/ml
 RT: 9.063 min Scan# 1373
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

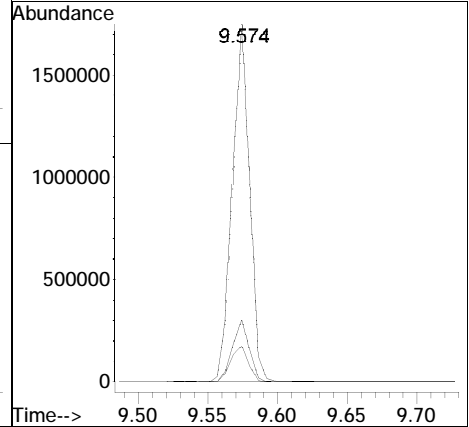
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.3	10.9
104	4.8	3.6	5.4

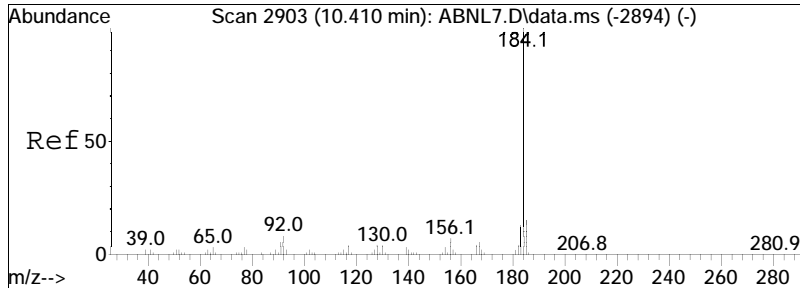




#93
 Fluoranthene
 Concen: 46.53 ug/ml
 RT: 9.574 min Scan# 1460
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

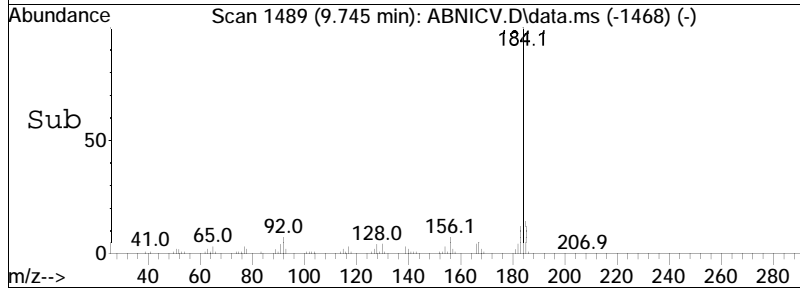
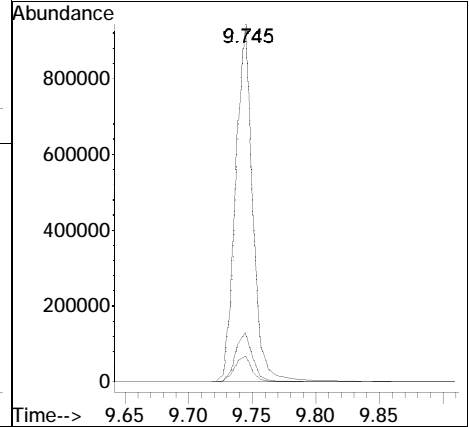
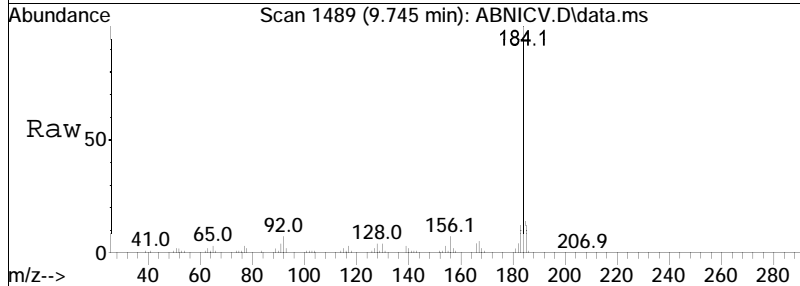
Tgt Ion	Resp	Lower	Upper
202	1481983		
101	10.6	11.2	16.8#
203	17.3	13.8	20.6

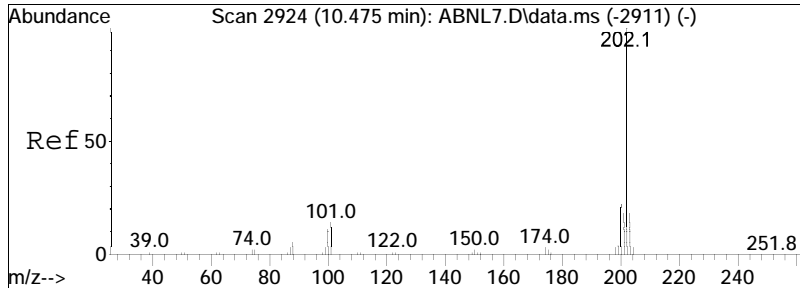




#94
 Benzidine
 Concen: 43.82 ug/ml
 RT: 9.745 min Scan# 1489
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

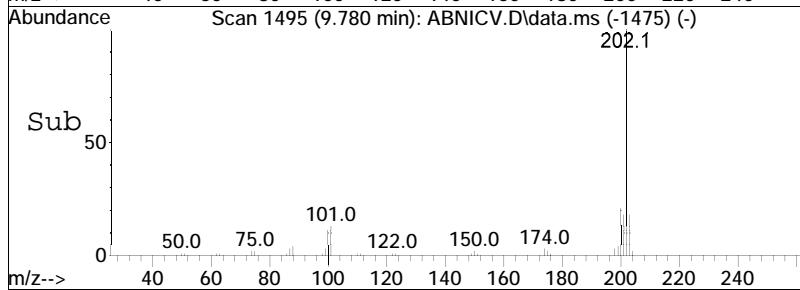
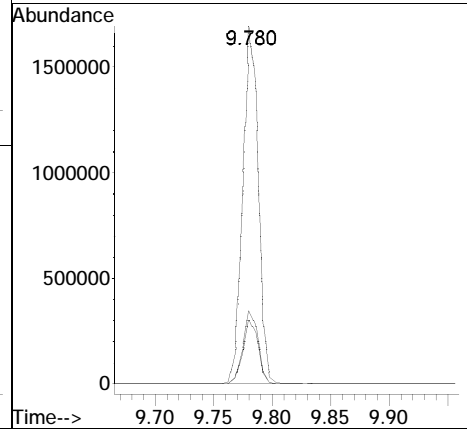
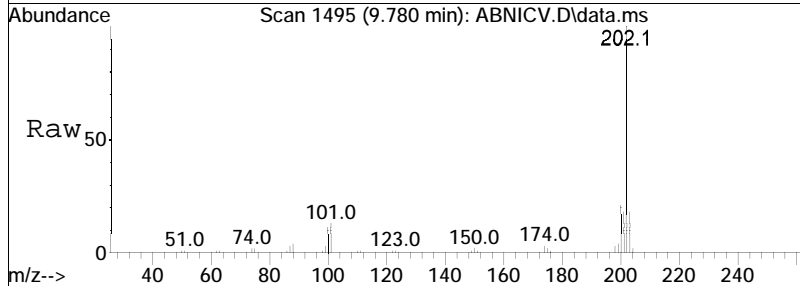
Tgt Ion	Resp	Lower	Upper
184	100		
92	7.5	7.2	10.8
185	14.2	11.3	16.9

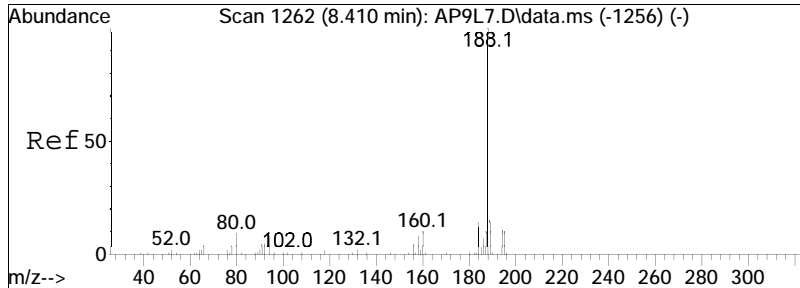




#95
 Pyrene
 Concen: 46.44 ug/ml
 RT: 9.780 min Scan# 1495
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

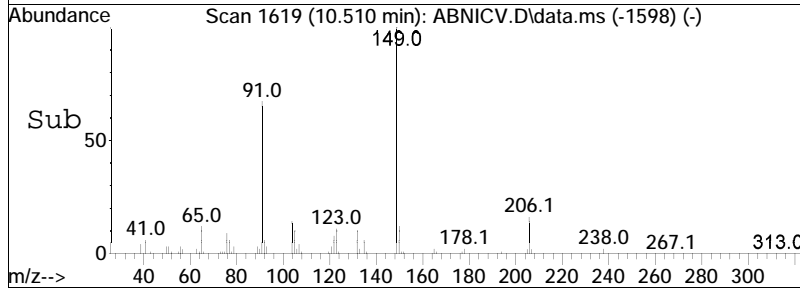
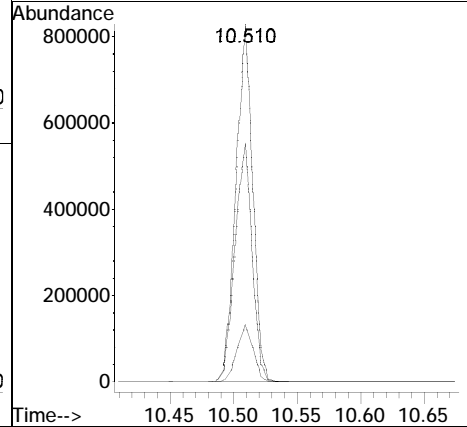
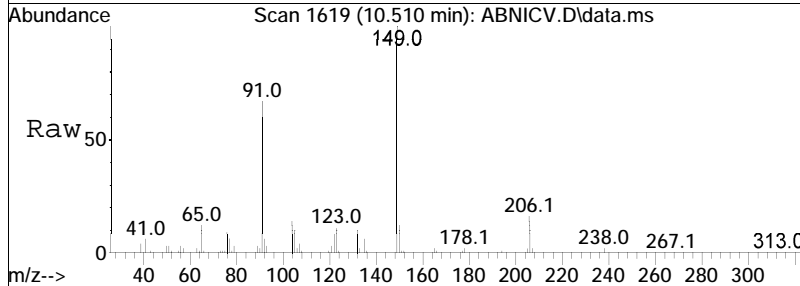
Tgt Ion	Resp	Lower	Upper
202	1534337		
200	20.4	17.0	25.4
203	17.9	14.2	21.4

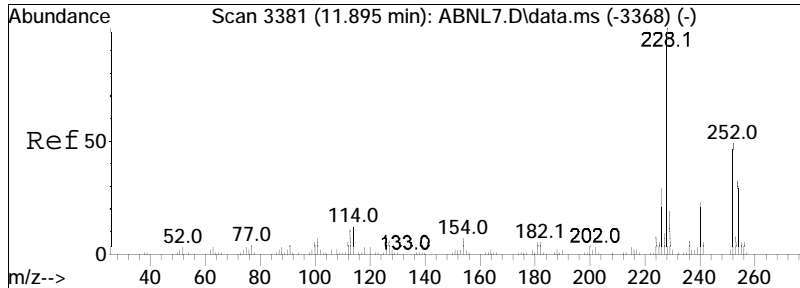




#97
 Butyl benzyl phthalate
 Concen: 46.66 ug/ml
 RT: 10.510 min Scan# 1619
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

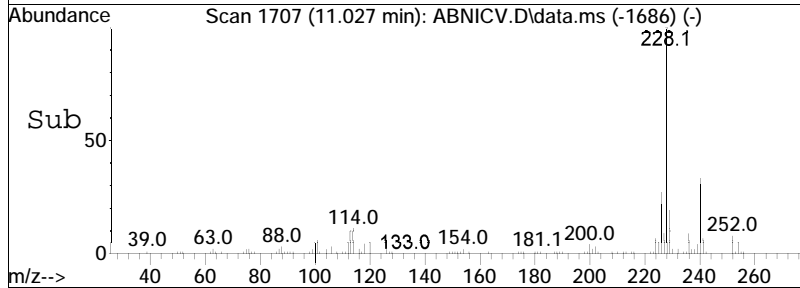
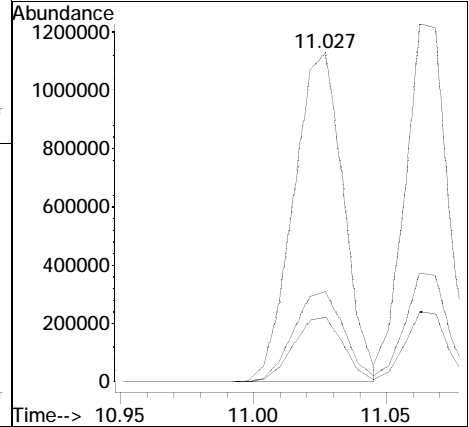
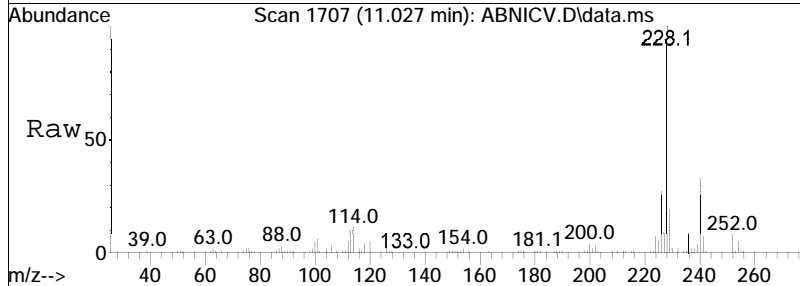
Tgt Ion	Resp	Lower	Upper
149	748400		
149	100		
91	68.4	54.6	81.8
206	15.7	12.5	18.7

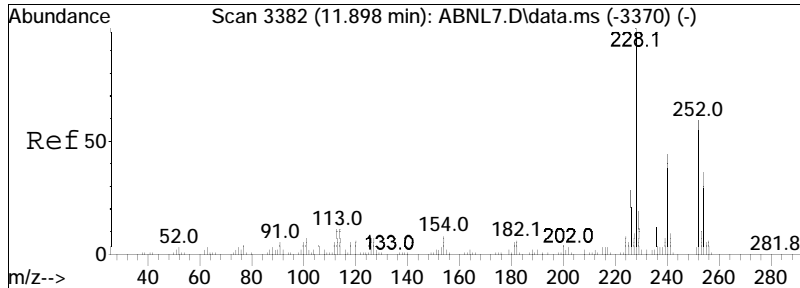




#105
 Benzo(a)anthracene
 Concen: 47.34 ug/ml
 RT: 11.027 min Scan# 1707
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

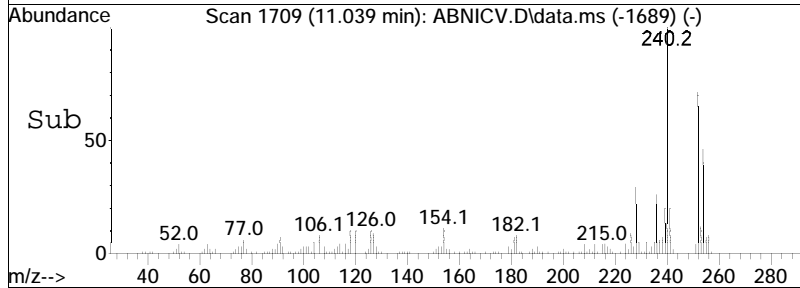
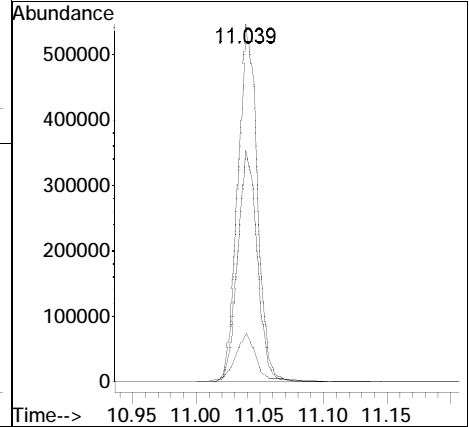
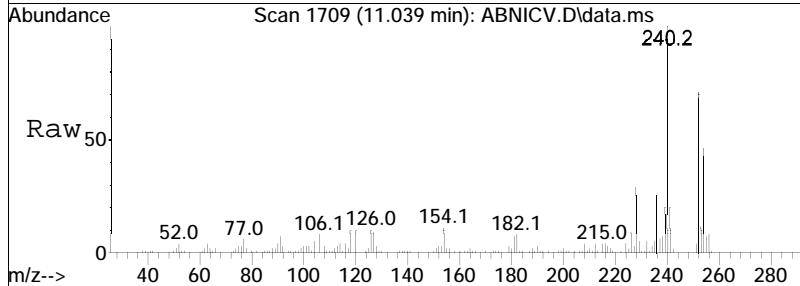
Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.4
229	19.6	15.6	23.4

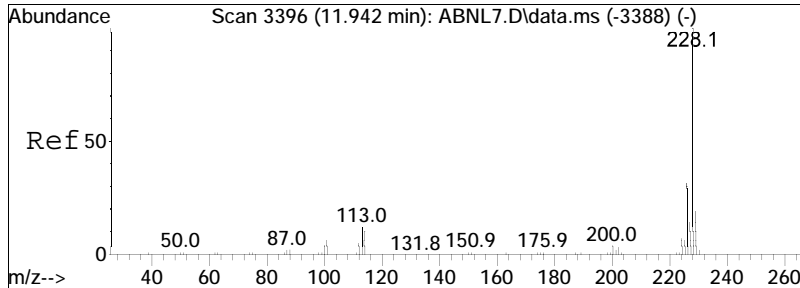




#106
 3,3'-Dichlorobenzidine
 Concen: 49.01 ug/ml
 RT: 11.039 min Scan# 1709
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

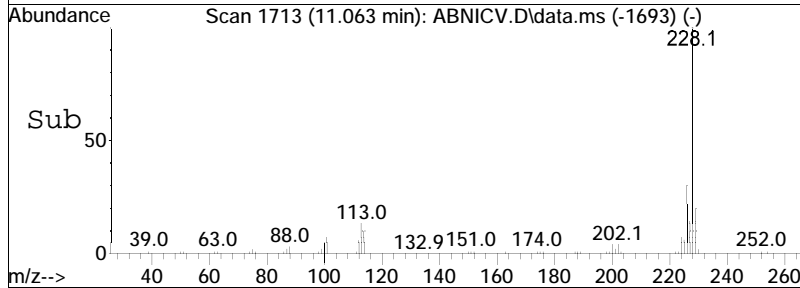
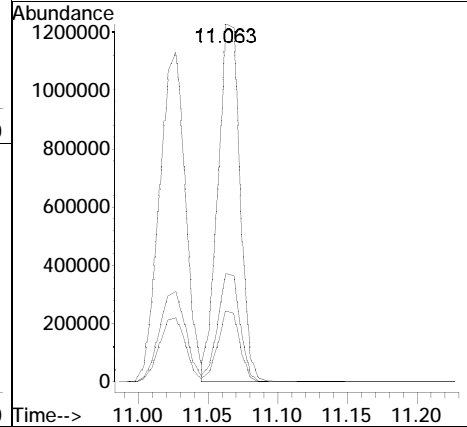
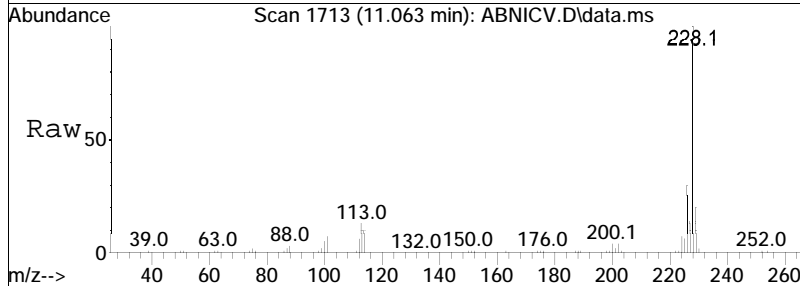
Tgt Ion	Ratio	Lower	Upper
252	100		
126	14.9	12.4	18.6
254	64.7	51.8	77.6

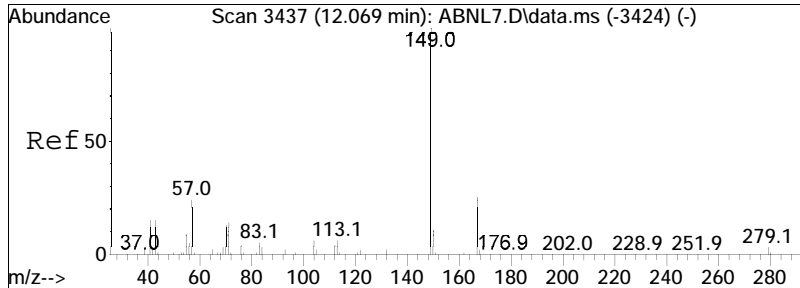




#107
 Chrysene
 Concen: 47.33 ug/ml
 RT: 11.063 min Scan# 1713
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

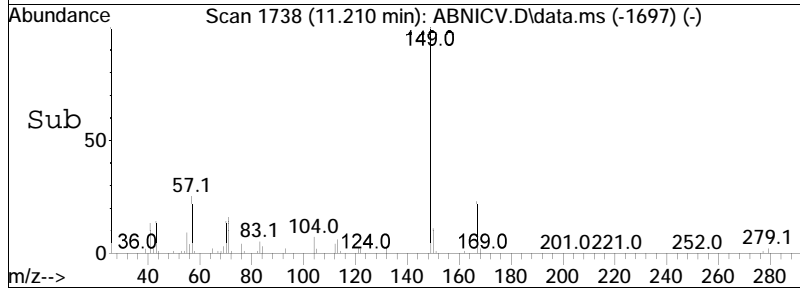
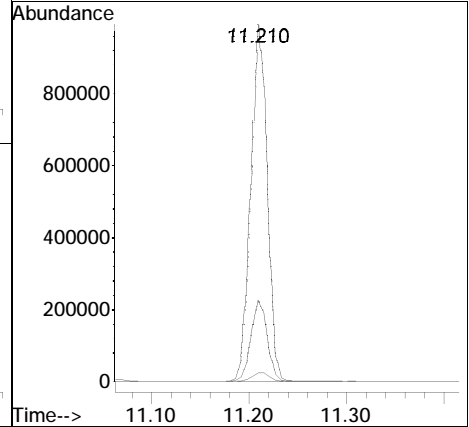
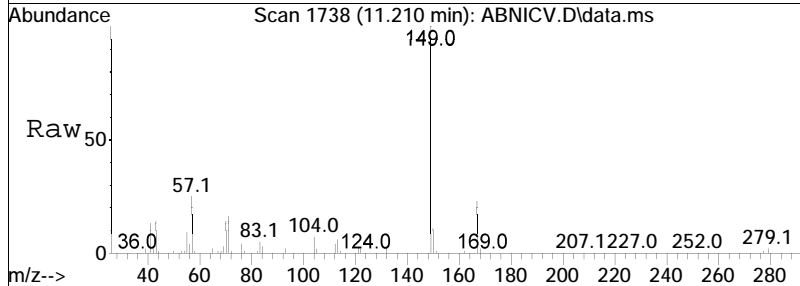
Tgt Ion	Resp	Lower	Upper
228	100		
226	30.3	24.3	36.5
229	19.4	15.5	23.3

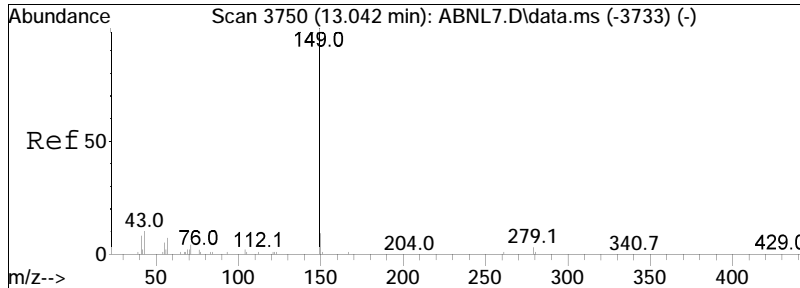




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 49.00 ug/ml
 RT: 11.210 min Scan# 1738
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

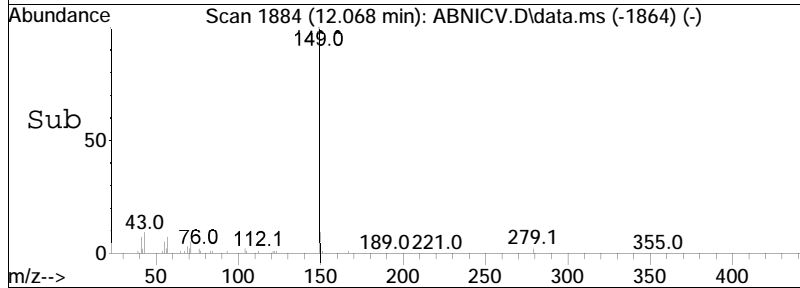
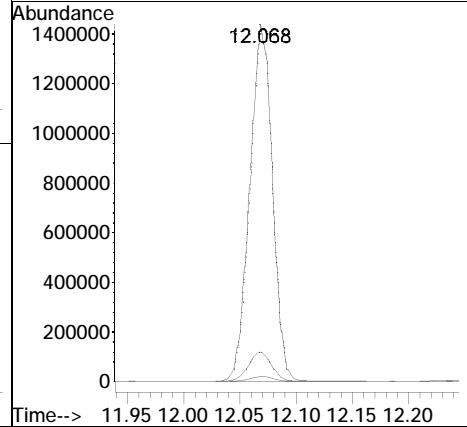
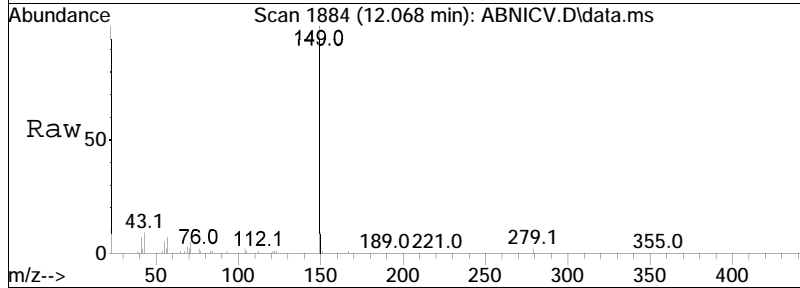
Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.8	19.0	28.6
279	2.4	2.0	3.0

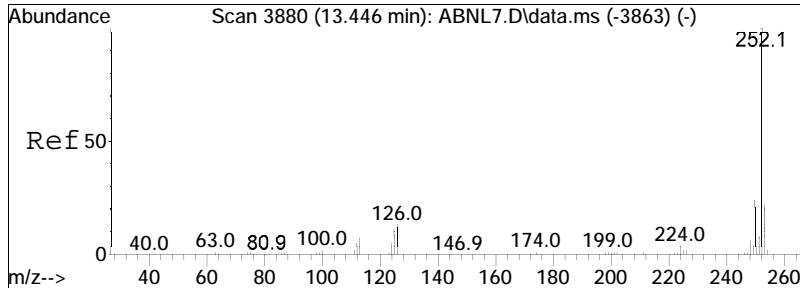




#109
 Di-n-octylphthalate
 Concen: 48.15 ug/ml
 RT: 12.068 min Scan# 1884
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

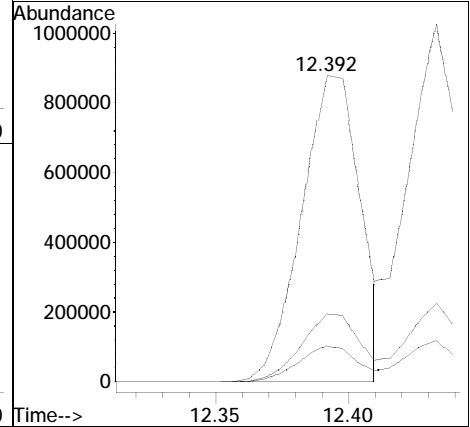
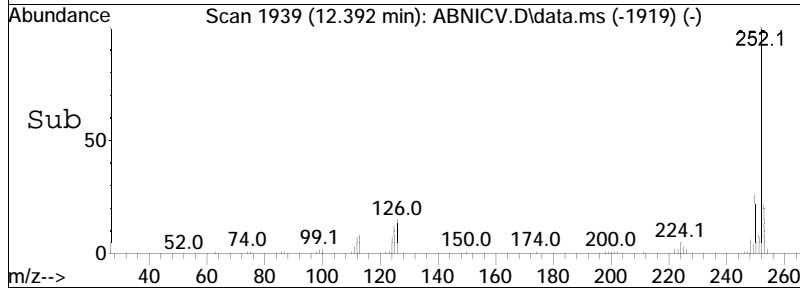
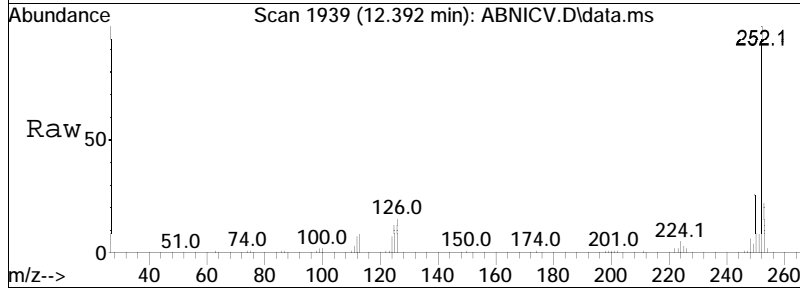
Tgt Ion	Ratio	Lower	Upper
149	100		
43	8.6	9.0	13.4#
167	1.3	1.1	1.7

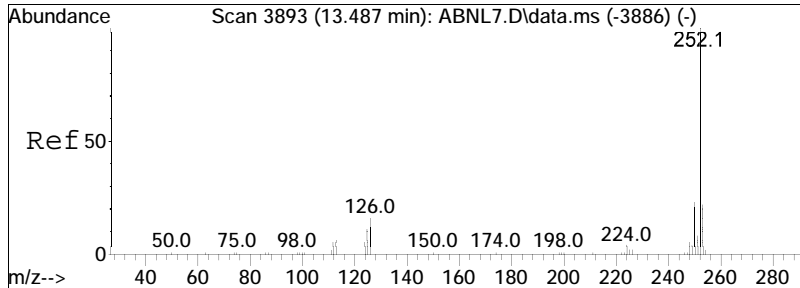




#110
 Benzo(b)fluoranthene
 Concen: 45.57 ug/ml
 RT: 12.392 min Scan# 1939
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

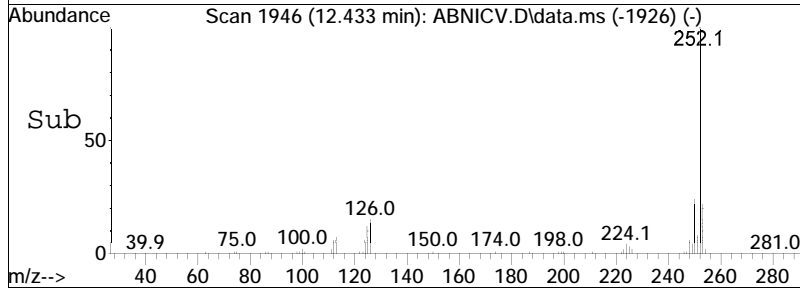
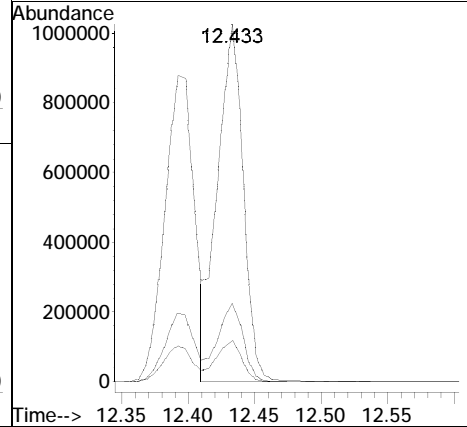
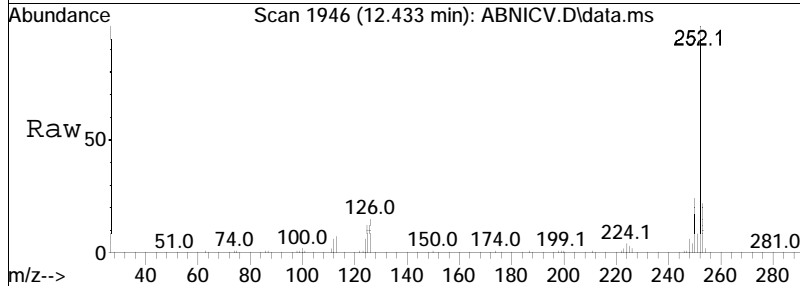
Tgt Ion	Resp	Lower	Upper
252	100		
125	11.8	11.4	17.0
253	22.1	17.5	26.3

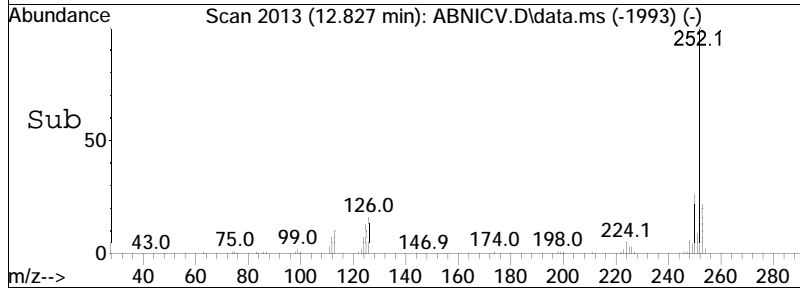
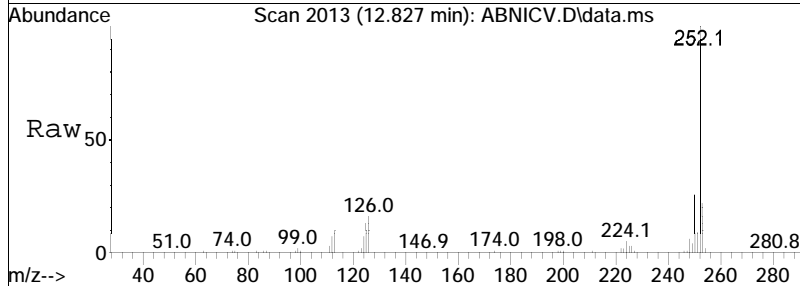
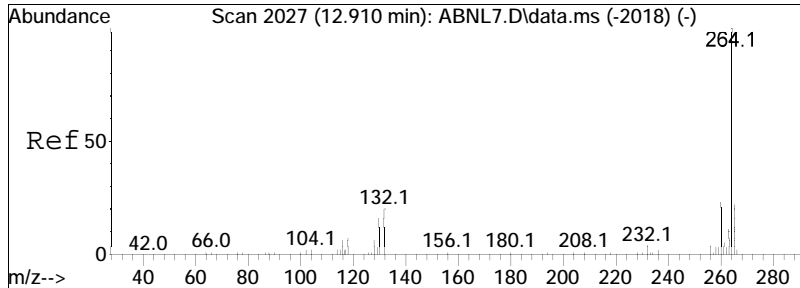




#111
 Benzo(k)fluoranthene
 Concen: 50.59 ug/ml
 RT: 12.433 min Scan# 1946
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

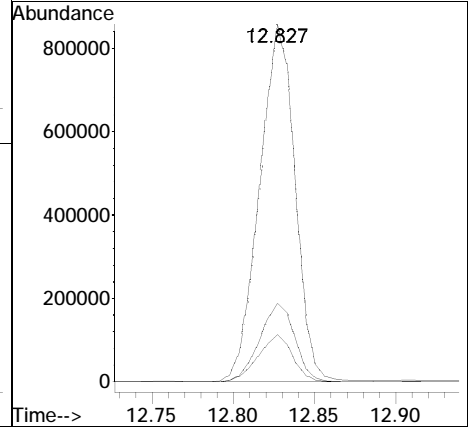
Tgt Ion	Resp	Lower	Upper
252	100		
125	11.5	11.0	16.6
253	21.8	17.4	26.0

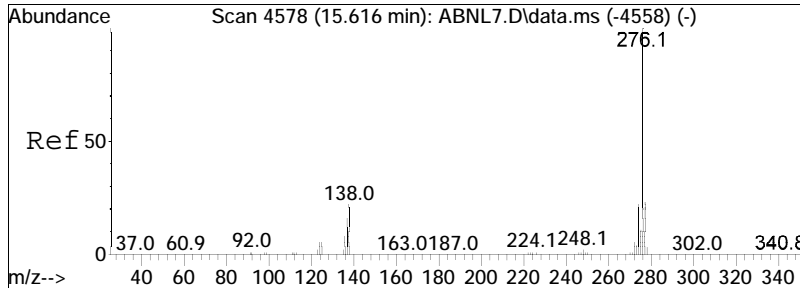




#112
 Benzo(a)pyrene
 Concen: 50.88 ug/ml
 RT: 12.827 min Scan# 2013
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

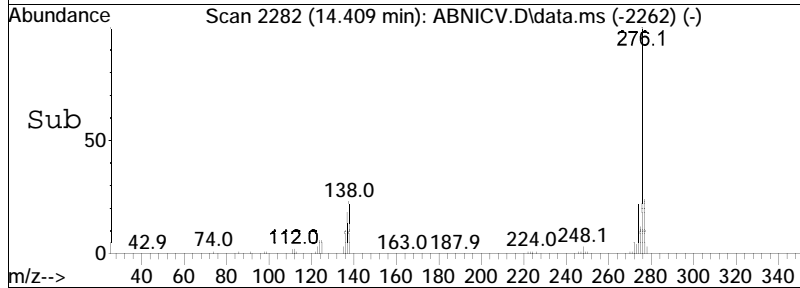
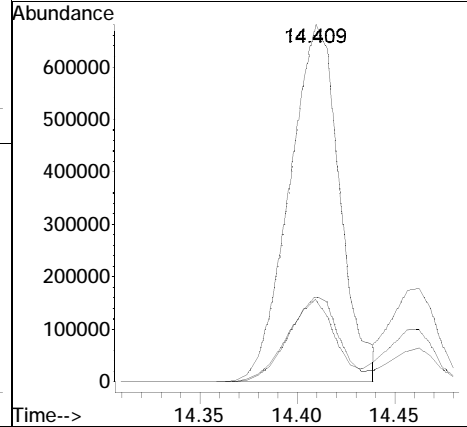
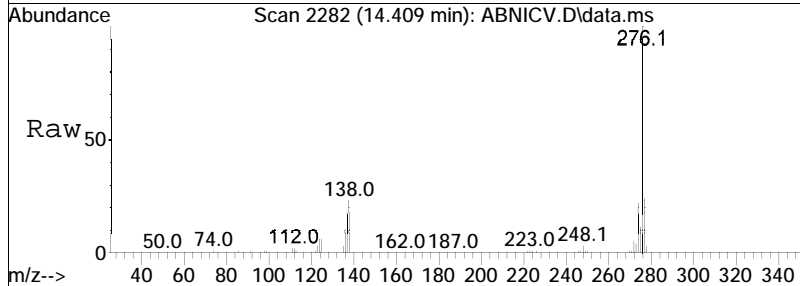
Tgt Ion	Resp	Lower	Upper
252	1289481		
125	12.9	12.4	18.6
253	22.0	17.6	26.4

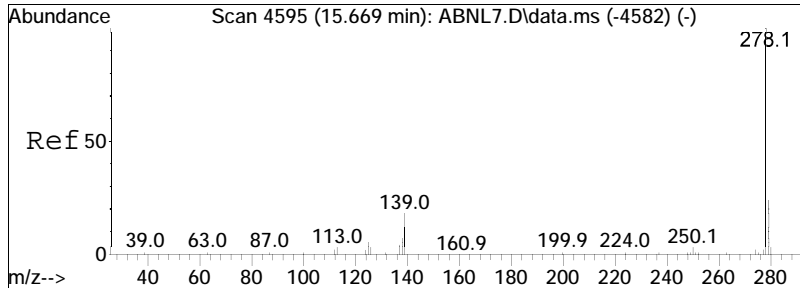




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 48.37 ug/ml
 RT: 14.409 min Scan# 2282
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

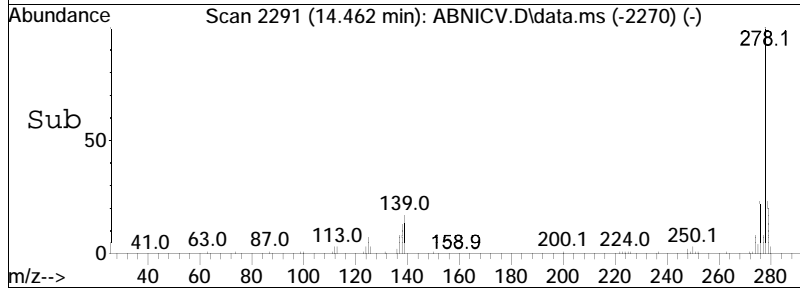
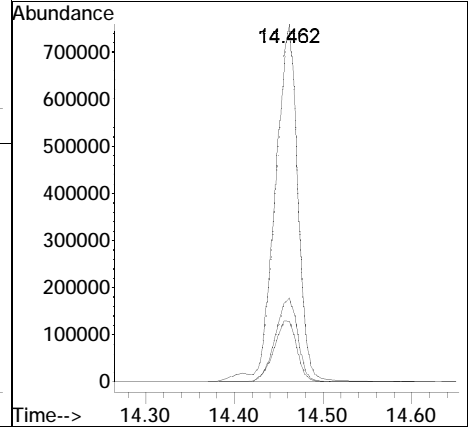
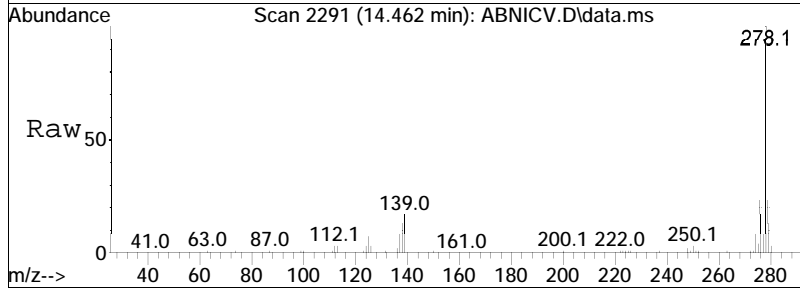
Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.5	21.0	31.6
277	23.5	19.1	28.7

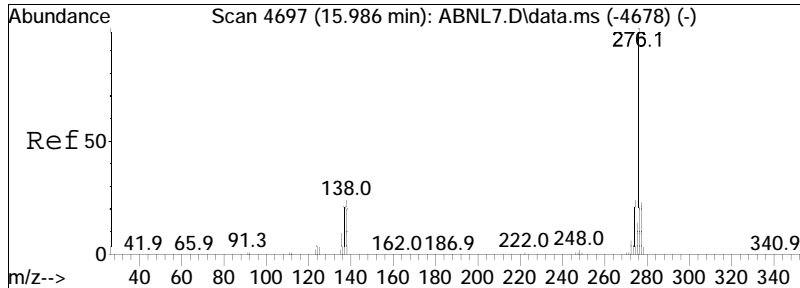




#115
 Dibenzo(a,h)anthracene
 Concen: 48.98 ug/ml
 RT: 14.462 min Scan# 2291
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

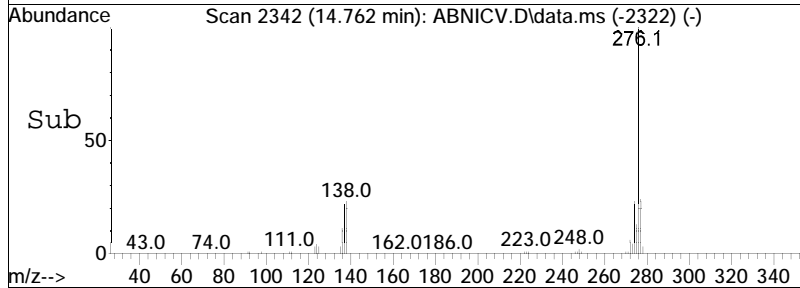
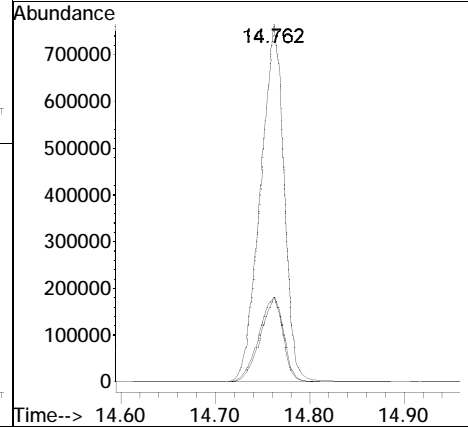
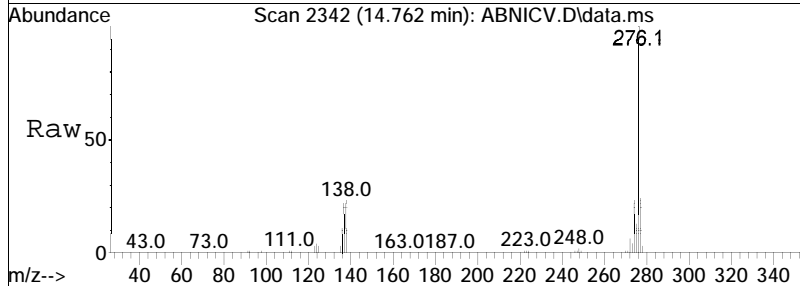
Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.5	16.9	25.3
279	23.5	19.2	28.8





#116
 Benzo(ghi)perylene
 Concen: 47.93 ug/ml
 RT: 14.762 min Scan# 2342
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 1 Jun 2023 11:45 am

Tgt Ion	Resp	Lower	Upper
276	100		
138	24.4	22.9	34.3
277	23.8	18.9	28.3



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ABNICV.D Operator : SV109:jg
Date Inj'd : 6/1/2023 11:45 am Instrument : SV109
Sample : CQICV1,32,,ABNICV Lot# 100Quant Date : 6/7/2023 2:37 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9ICV.D
 Acq On : 1 Jun 2023 12:09 pm
 Operator : SV109:jg
 Sample : CQICV2,32,,AP9ICV Lot# 10075
 Misc : WG1788374,,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 07 14:45:37 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 14:45:25 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27 I IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
28 T Benzaldehyde	0.823	0.950	-15.4	106	0.00
29 T Acetophenone	1.793	1.947	-8.6	101	0.00
30 T m-Toluidine	1.520	1.703	-12.0	103	0.00
31 T 2-Chloroaniline	1.632	1.754	-7.5	102	0.00
55 I IS2_Naphthalene-d8	1.000	1.000	0.0	97	0.00
56 T a-Terpineol	0.261	0.284	-8.8	103	0.00
57 T 3-Chloroaniline	0.131	0.143	-9.2	101	0.00
58 T 2,6-Dichlorophenol	0.269	0.292	-8.6	102	0.00
59 T 1-chloro-2-nitrobenzene	0.142	0.155	-9.2	102	0.00
60 T Caprolactam	0.149	0.159	-6.7	102	0.00
61 T 1,2,4,5-Tetrachlorobenzene	0.345	0.367	-6.4	103	0.00
62 T Biphenyl	0.819	0.878	-7.2	103	0.00
83 I IS2_Acenaphthene-d10	1.000	1.000	0.0	97	0.00
84 T Dichloran	0.186	0.209	-12.4	104	0.00
85 T Pentachloronitrobenzene	0.206	0.227	-10.2	104	0.00
98 I IS2_Phenanthrene-d10	1.000	1.000	0.0	99	0.00
99 T Diphenamid	0.512	0.548	-7.0	103	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9ICV.D
 Acq On : 1 Jun 2023 12:09 pm
 Operator : SV109:jg
 Sample : CQICV2,32,,AP9ICV Lot# 10075
 Misc : WG1788374,,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 07 14:45:37 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 14:45:25 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ABNL7.D
 : 2 - I:\8270\SV109\230531ical\ADPL7.D
 : 3 - I:\8270\SV109\230531ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.046	152	183504	40.000	ug/ml	0.00
Standard Area 3 = 188873			Recovery	=	97.16%	
55) IS2_Naphthalene-d8	5.293	136	739434	40.000	ug/ml	0.00
Standard Area 3 = 764198			Recovery	=	96.76%	
83) IS2_Acenaphthene-d10	6.987	164	413883	40.000	ug/ml	0.00
Standard Area 3 = 424819			Recovery	=	97.43%	
98) IS2_Phenanthrene-d10	8.410	188	922410	40.000	ug/ml	0.00
Standard Area 3 = 930263			Recovery	=	99.16%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.604	105	217855	57.682	ug/ml	98
29) Acetophenone	4.469	105	446549	54.277	ug/ml	95
30) m-Toluidine	4.557	106	390569	56.022	ug/ml	99
31) 2-Chloroaniline	4.910	127	402382	53.740	ug/ml	99
56) a-Terpineol	5.369	59	262626	54.338	ug/ml#	83
57) 3-Chloroaniline	5.387	65	132505	54.764	ug/ml	92
58) 2,6-Dichlorophenol	5.410	162	269471	54.265	ug/ml#	88
59) 1-chloro-2-nitrobenzene	5.663	111	143267	54.498	ug/ml	96
60) Caprolactam	5.722	55	146660	53.307	ug/ml#	83
61) 1,2,4,5-Tetrachloroben...	6.169	216	339426	53.199	ug/ml	99
62) Biphenyl	6.457	154	811705	53.600	ug/ml	100
84) Dichloran	8.128	206	108121	56.327	ug/ml	95
85) Pentachloronitrobenzene	8.269	237	117391	55.086	ug/ml	96
99) Diphenamid	9.328	167	632006	53.483	ug/ml	93

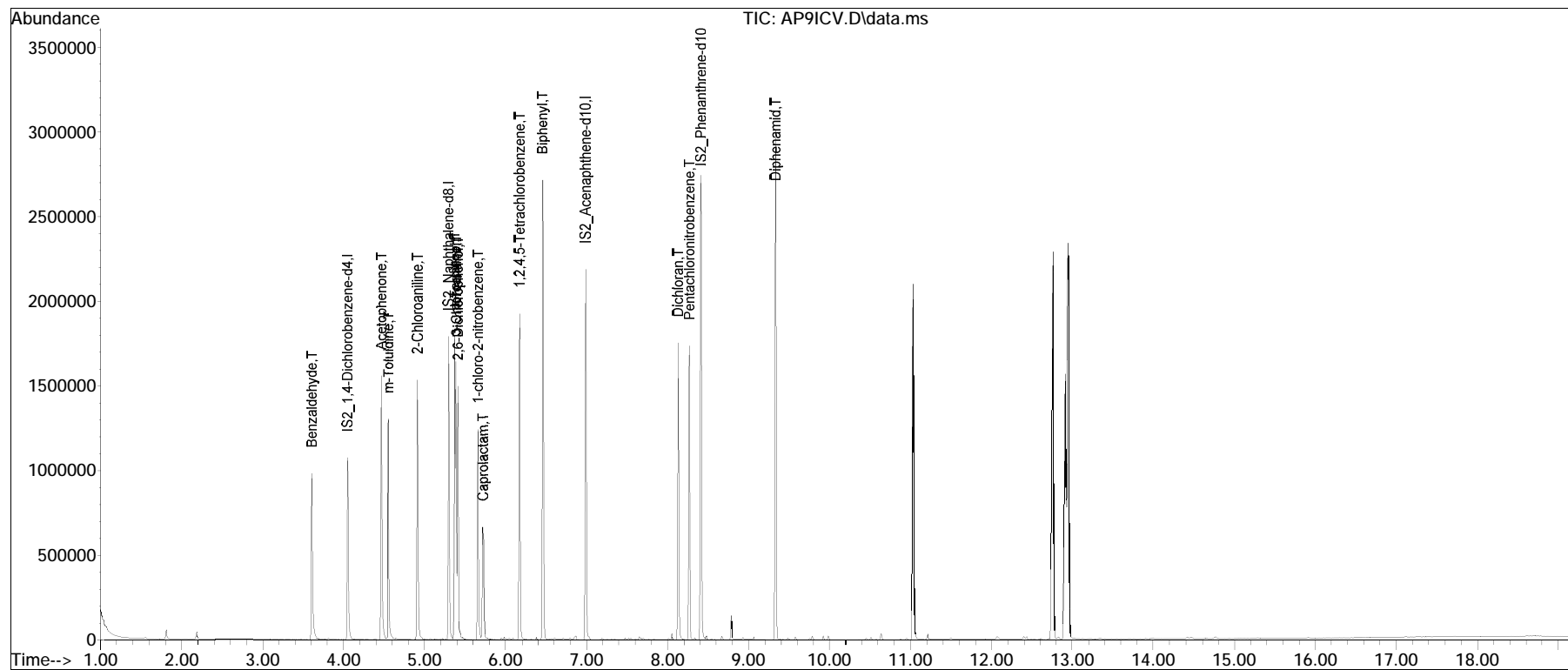
(#) = qualifier out of range (m) = manual integration (+) = signals summed

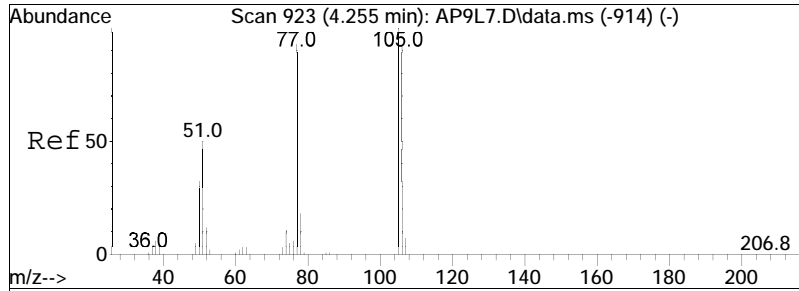
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : AP9ICV.D
 Acq On : 1 Jun 2023 12:09 pm
 Operator : SV109:jg
 Sample : CQICV2,32,,AP9ICV Lot# 10075
 Misc : WG1788374,,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 07 14:45:37 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 14:45:25 2023
 Response via : Initial Calibration

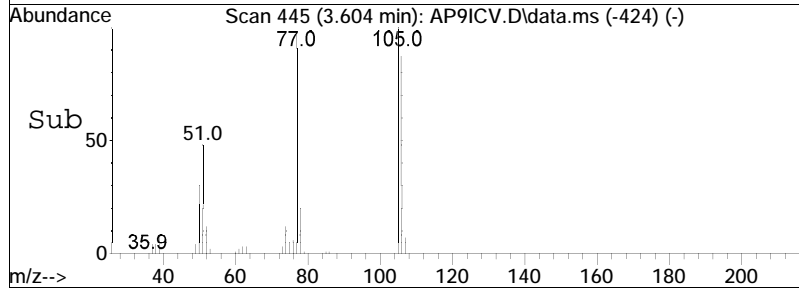
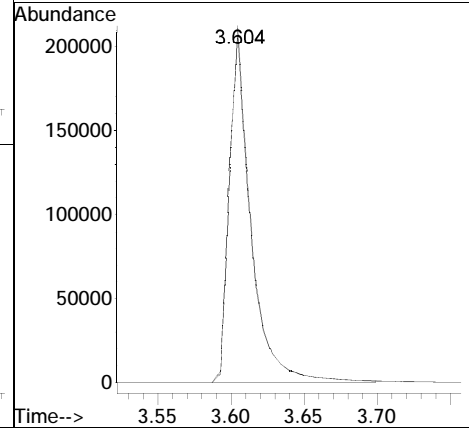
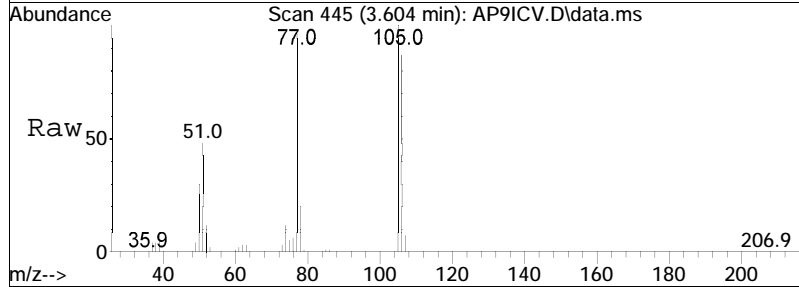
Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•

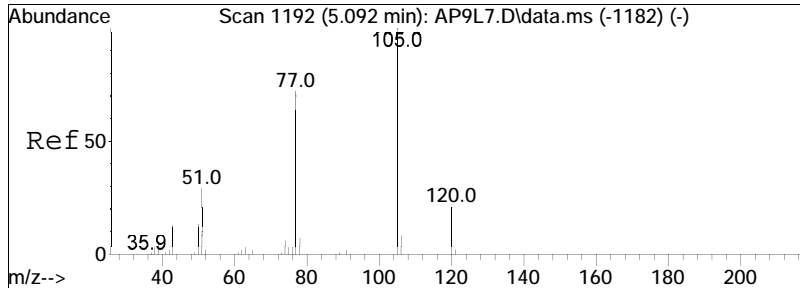




#28
 Benzaldehyde
 Concen: 57.68 ug/ml
 RT: 3.604 min Scan# 445
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 1 Jun 2023 12:09 pm

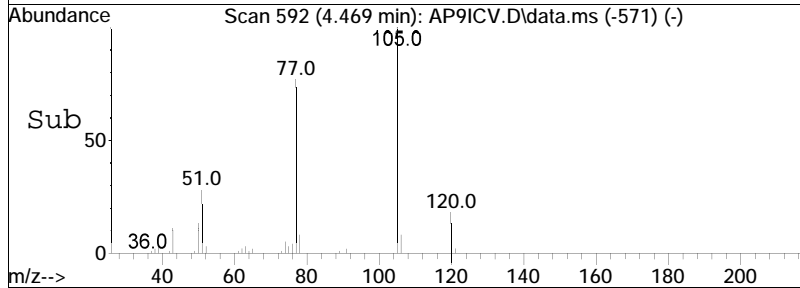
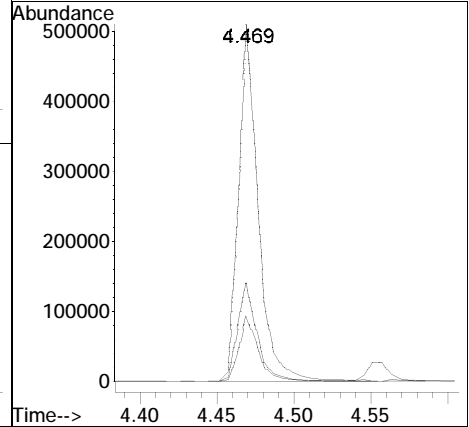
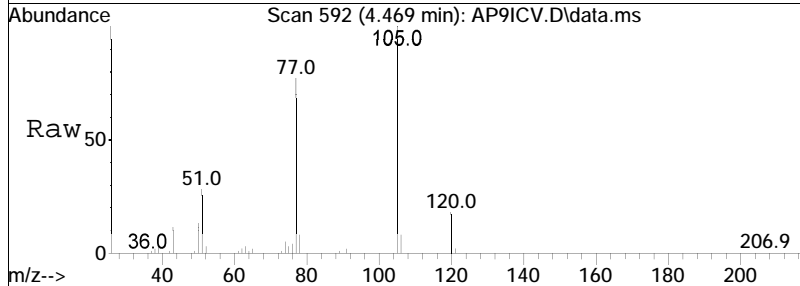
Tgt Ion:105 Resp: 217855
 Ion Ratio Lower Upper
 105 100
 77 98.5 76.9 115.3

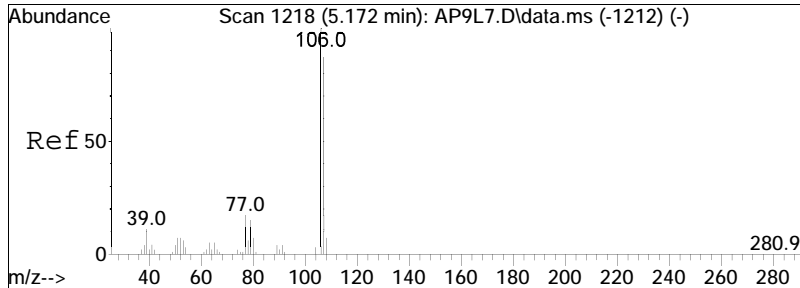




#29
 Acetophenone
 Concen: 54.28 ug/ml
 RT: 4.469 min Scan# 592
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 1 Jun 2023 12:09 pm

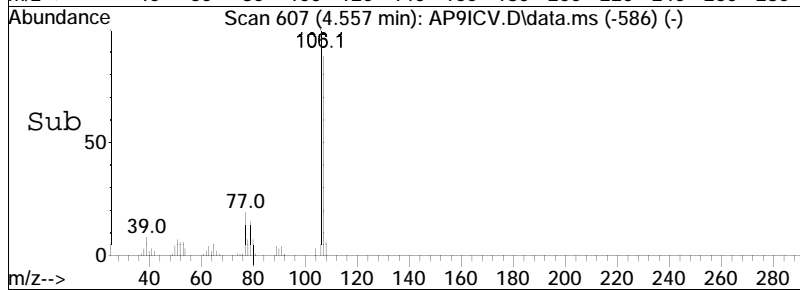
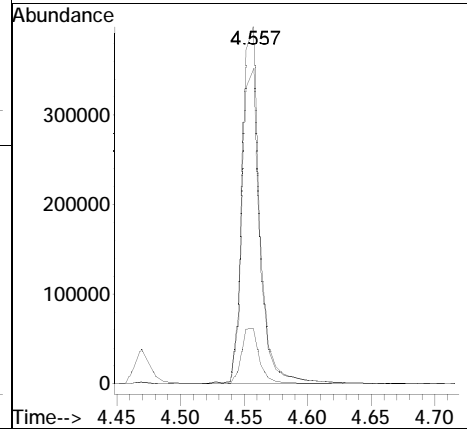
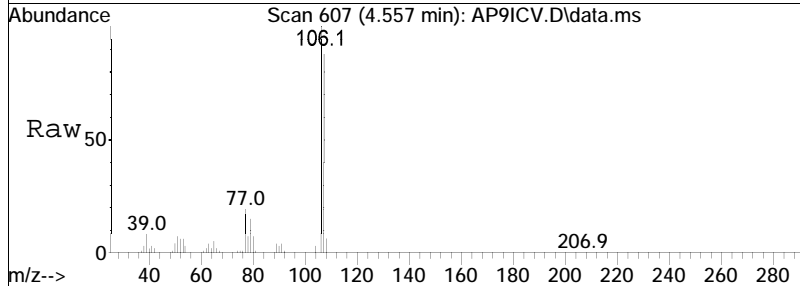
Tgt Ion	Resp	Lower	Upper
105	100		
120	18.3	15.9	23.9
51	27.8	25.2	37.8

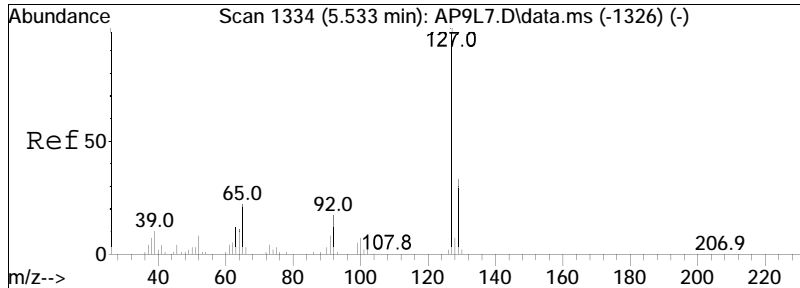




#30
 m-Toluidine
 Concen: 56.02 ug/ml
 RT: 4.557 min Scan# 607
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 1 Jun 2023 12:09 pm

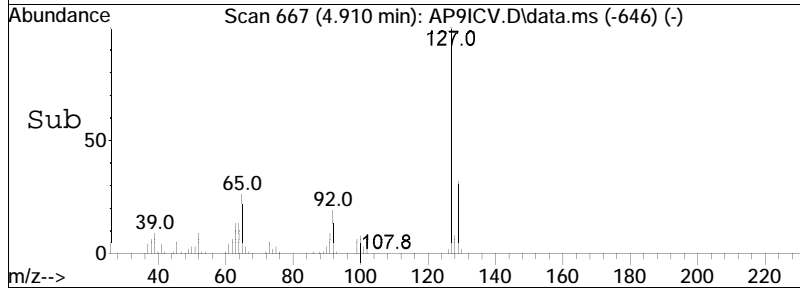
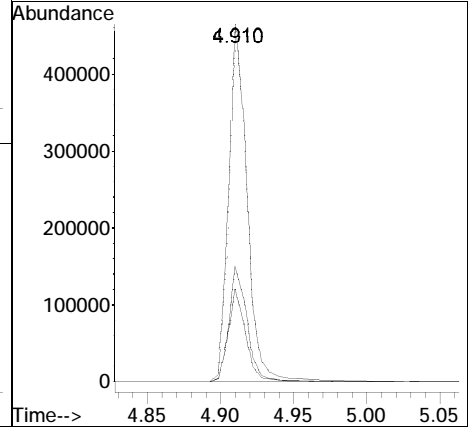
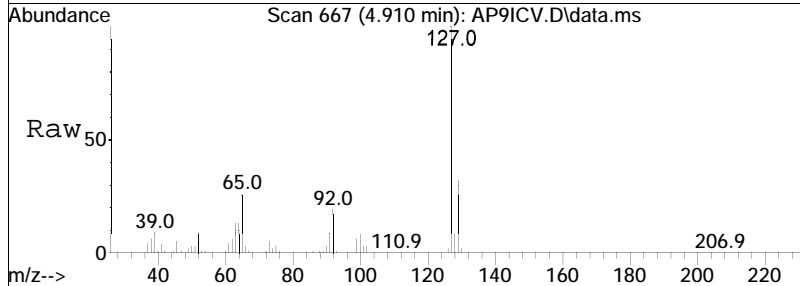
Tgt Ion	Resp	Lower	Upper
106	100		
107	89.2	71.8	107.6
79	16.0	12.0	18.0

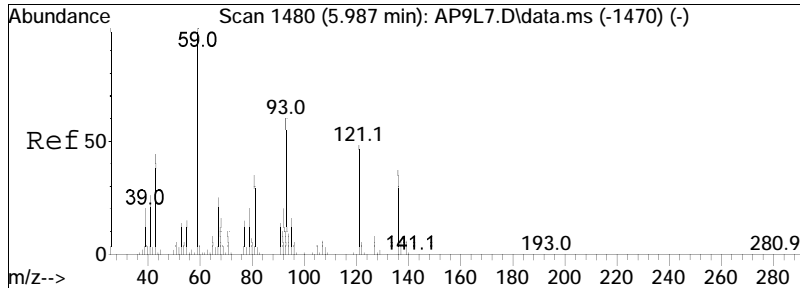




#31
 2-Chloroaniline
 Concen: 53.74 ug/ml
 RT: 4.910 min Scan# 667
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 1 Jun 2023 12:09 pm

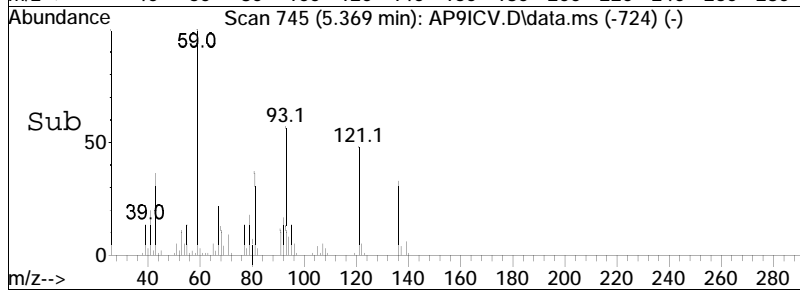
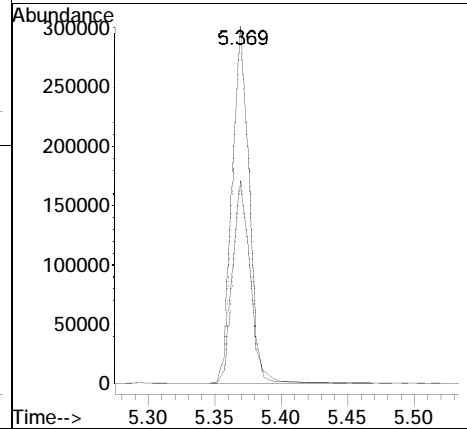
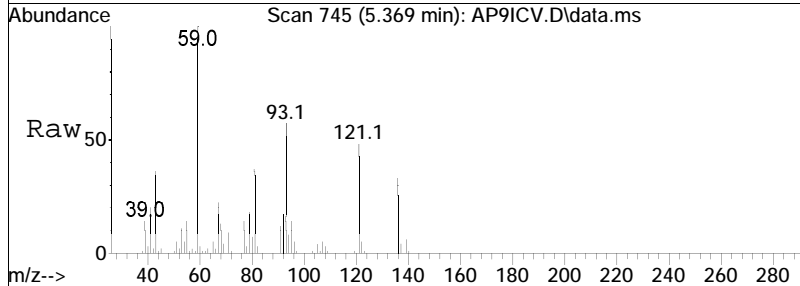
Tgt Ion	Resp	Lower	Upper
127	100		
129	32.3	25.4	38.0
65	25.1	19.4	29.2

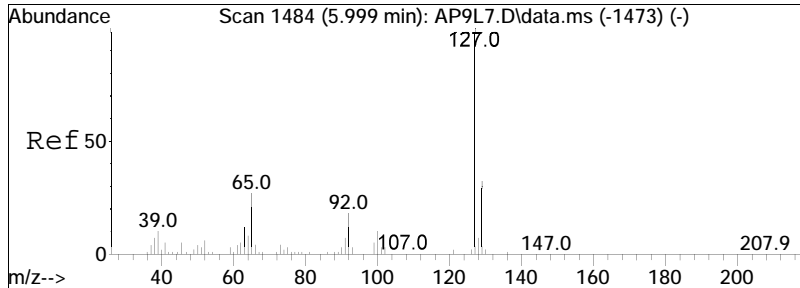




#56
 a-Terpineol
 Concen: 54.34 ug/ml
 RT: 5.369 min Scan# 745
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 1 Jun 2023 12:09 pm

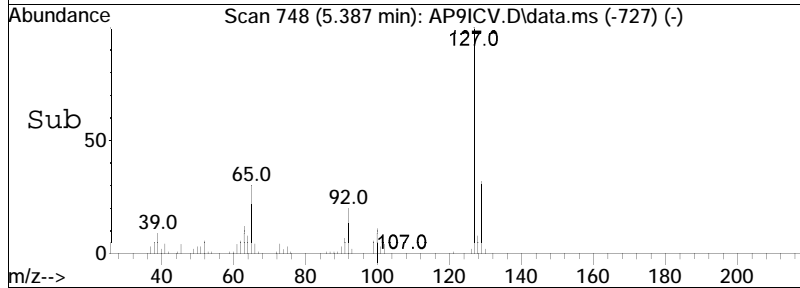
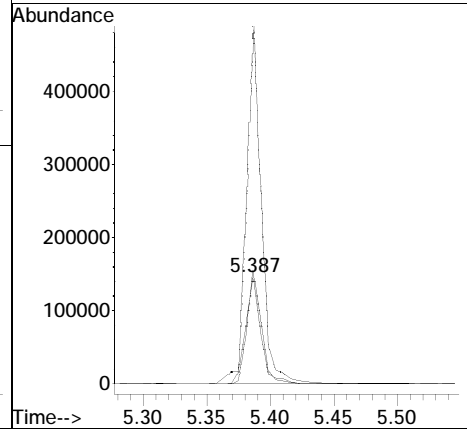
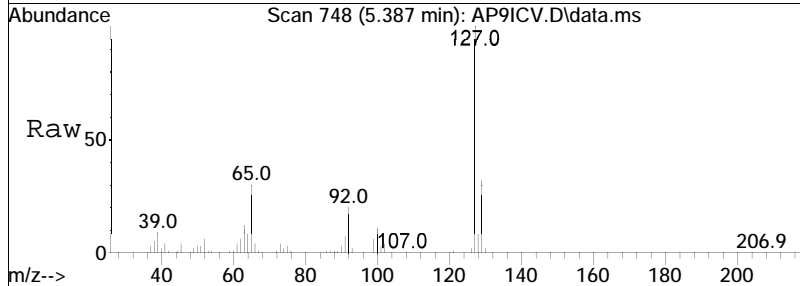
Tgt Ion: 59 Resp: 262626
 Ion Ratio Lower Upper
 59 100
 93 59.2 38.3 57.5#

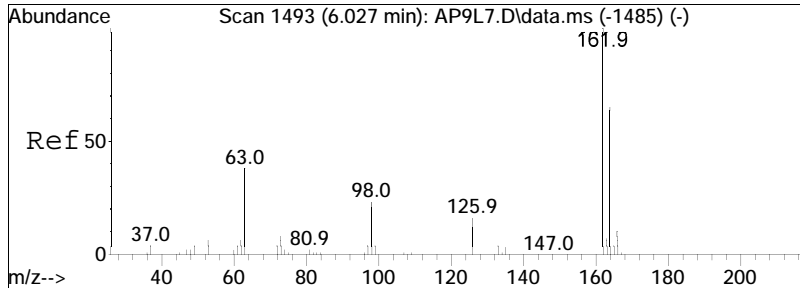




#57
 3-Chloroaniline
 Concen: 54.76 ug/ml
 RT: 5.387 min Scan# 748
 Delta R.T. 0.001 min
 Lab File: AP9ICV.D
 Acq: 1 Jun 2023 12:09 pm

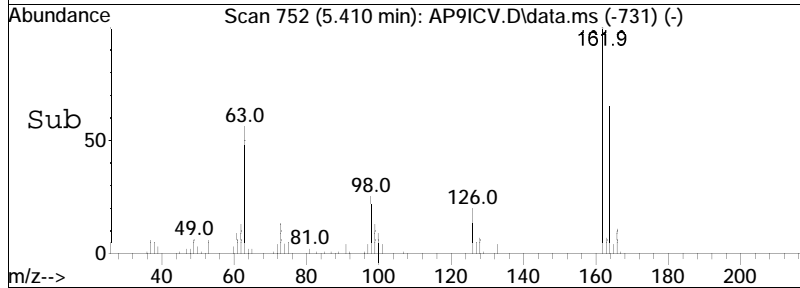
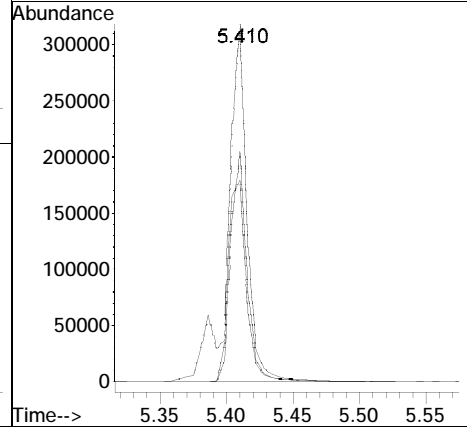
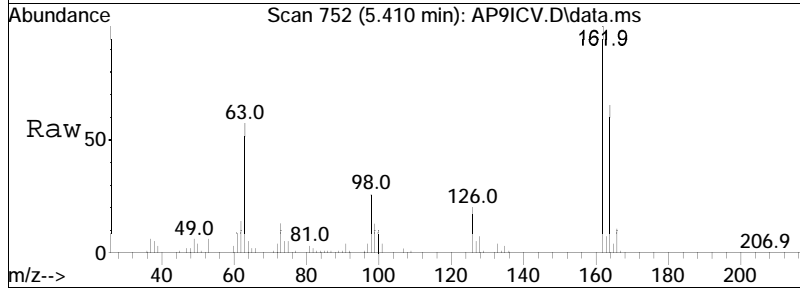
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
65	100		
127	291.6	246.5	369.7
129	93.5	80.3	120.5

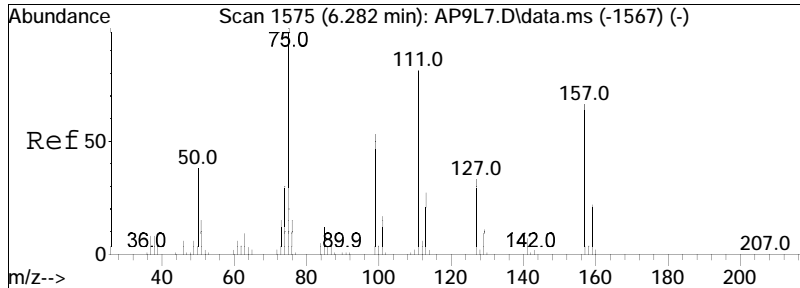




#58
 2,6-Dichlorophenol
 Concen: 54.26 ug/ml
 RT: 5.410 min Scan# 752
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 1 Jun 2023 12:09 pm

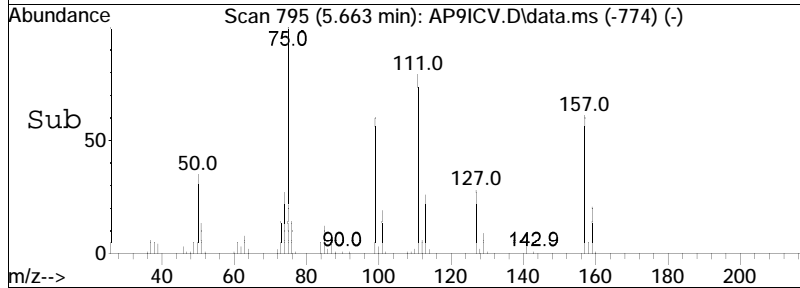
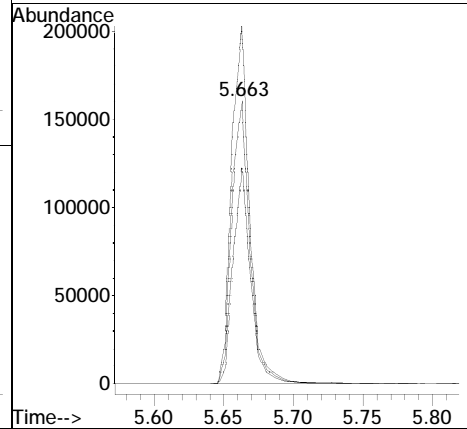
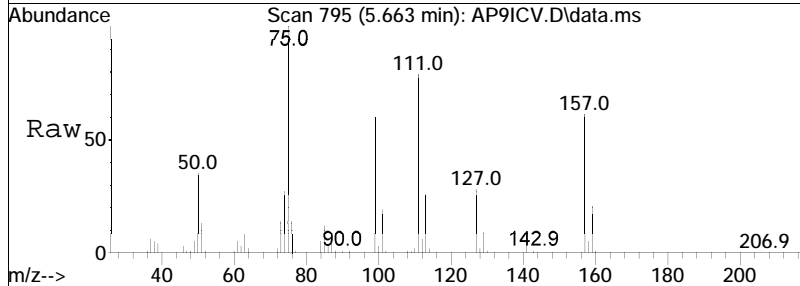
Tgt Ion	Ratio	Lower	Upper
162	100		
164	64.4	51.7	77.5
63	80.0	49.5	74.3#

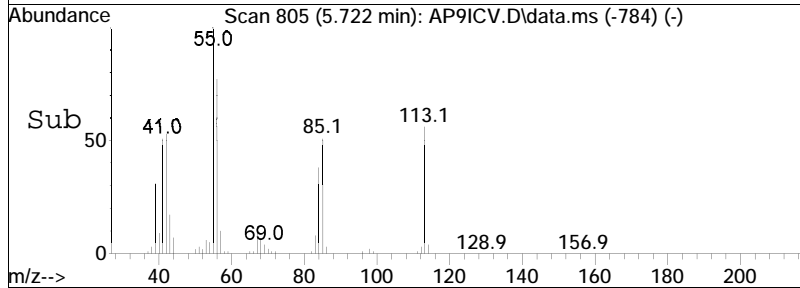
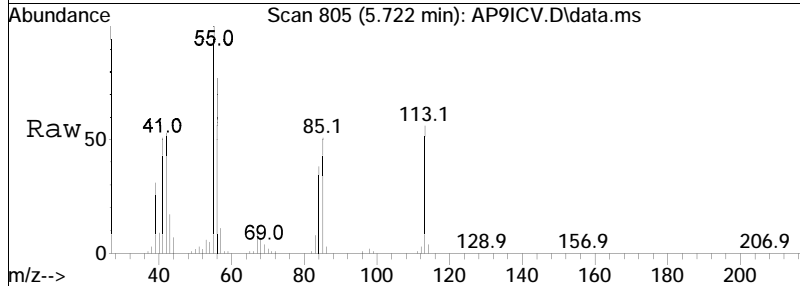
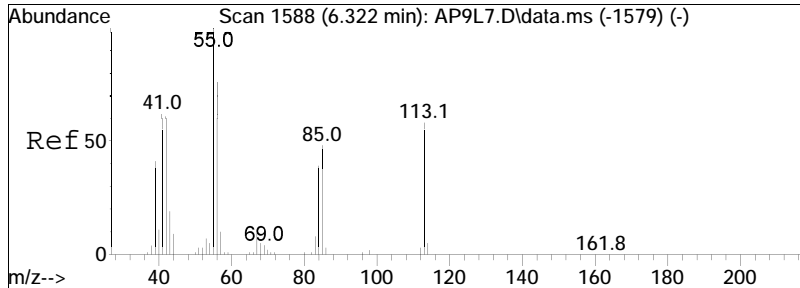




#59
 1-chloro-2-nitrobenzene
 Concen: 54.50 ug/ml
 RT: 5.663 min Scan# 795
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 1 Jun 2023 12:09 pm

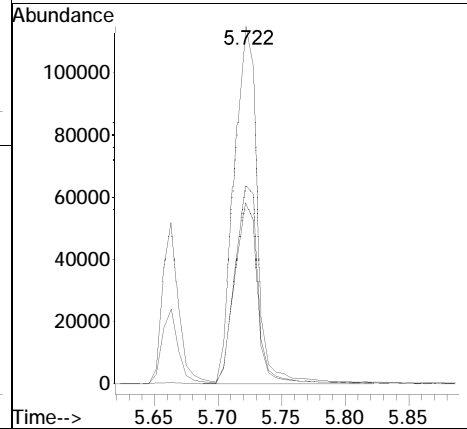
Tgt Ion	Resp	Lower	Upper
111	100		
157	74.2	61.1	91.7
75	125.8	96.3	144.5

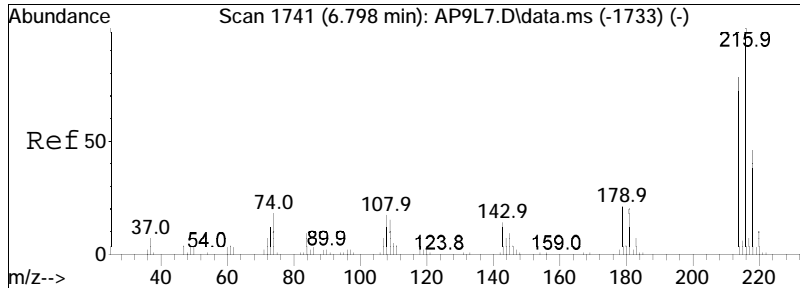




#60
 Caprolactam
 Concen: 53.31 ug/ml
 RT: 5.722 min Scan# 805
 Delta R.T. -0.000 min
 Lab File: AP9ICV.D
 Acq: 1 Jun 2023 12:09 pm

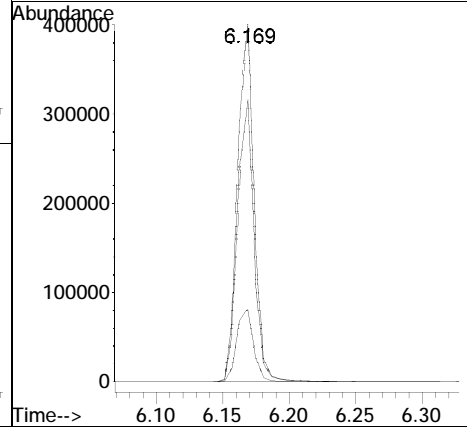
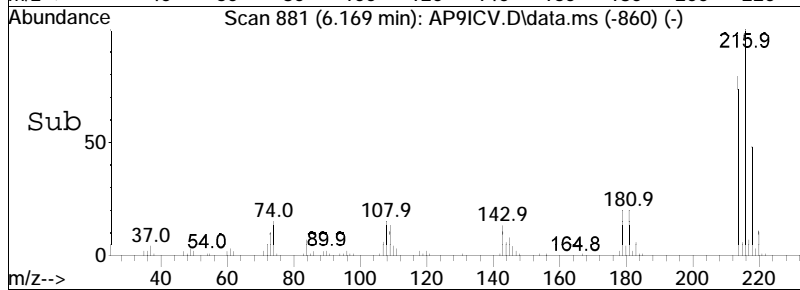
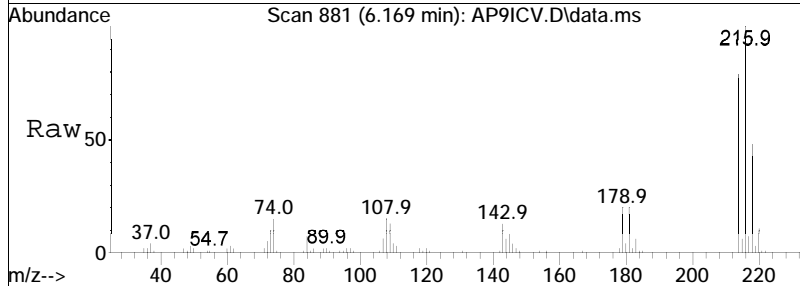
Tgt Ion:	55	Resp:	146660
Ion Ratio	Lower	Upper	
55	100		
85	49.4	30.9	46.3#
113	54.3	34.7	52.1#

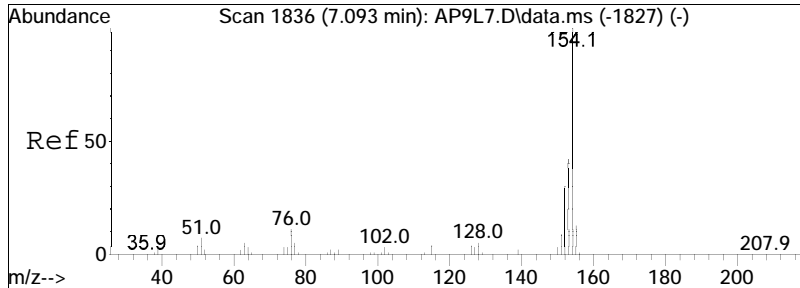




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 53.20 ug/ml
 RT: 6.169 min Scan# 881
 Delta R.T. -0.000 min
 Lab File: AP9ICV.D
 Acq: 1 Jun 2023 12:09 pm

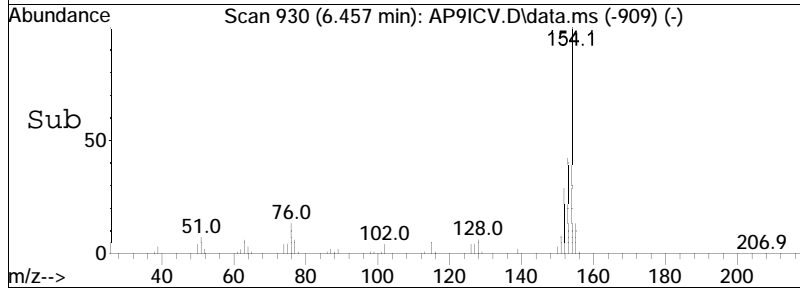
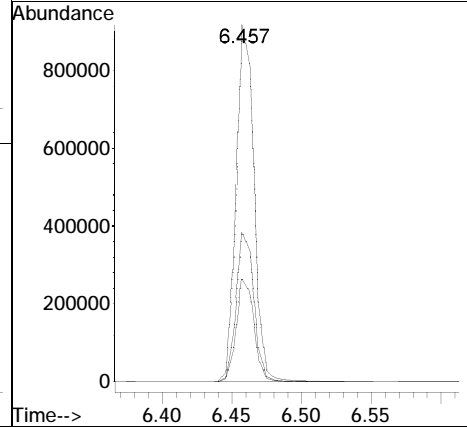
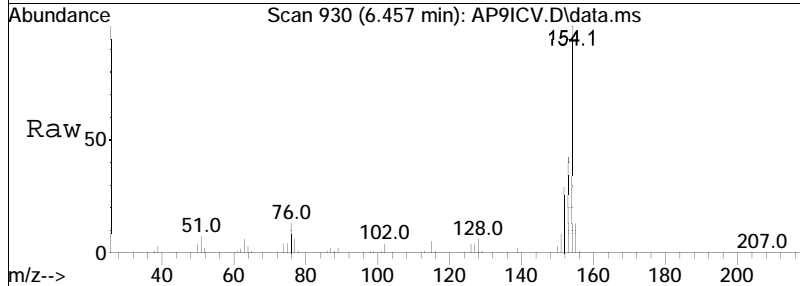
Tgt Ion	Ratio	Lower	Upper
216	100		
214	79.0	62.2	93.4
179	21.1	17.4	26.2

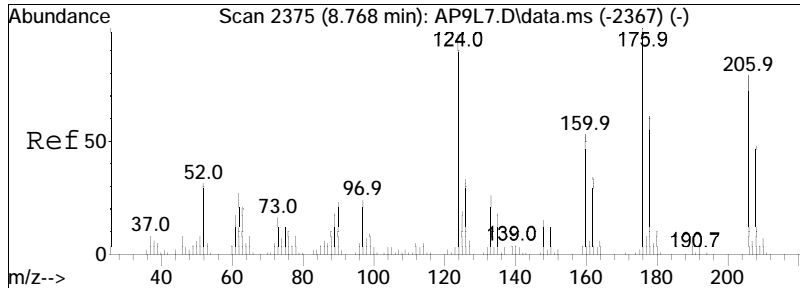




#62
 Biphenyl
 Concen: 53.60 ug/ml
 RT: 6.457 min Scan# 930
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 1 Jun 2023 12:09 pm

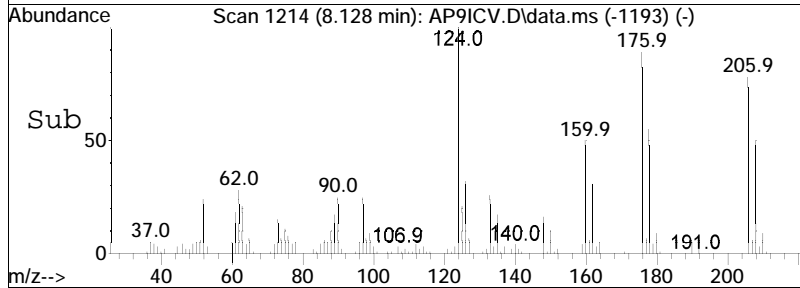
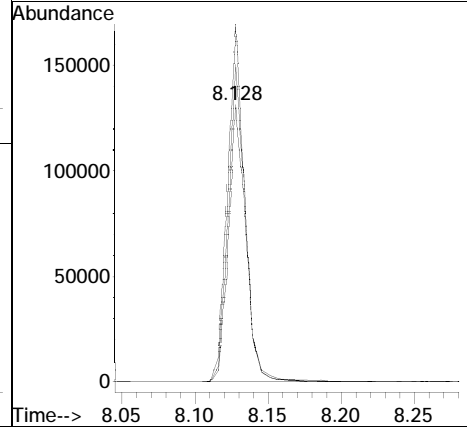
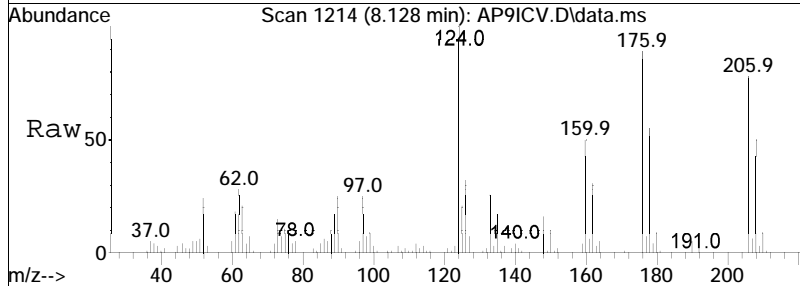
Tgt Ion	Resp	Lower	Upper
154	100		
153	42.1	33.4	50.0
152	28.9	23.0	34.6

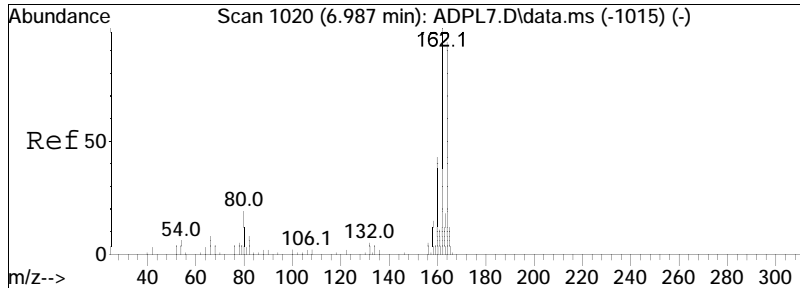




#84
 Dichloran
 Concen: 56.33 ug/ml
 RT: 8.128 min Scan# 1214
 Delta R.T. 0.001 min
 Lab File: AP9ICV.D
 Acq: 1 Jun 2023 12:09 pm

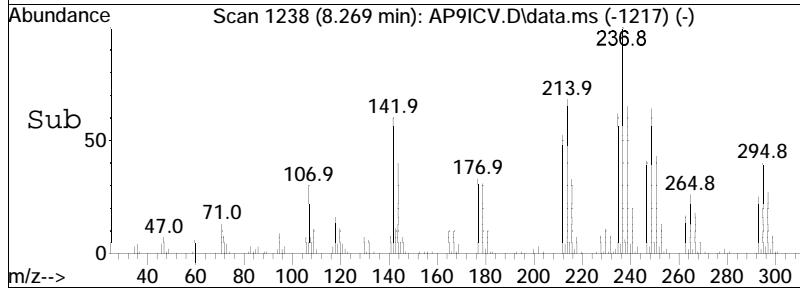
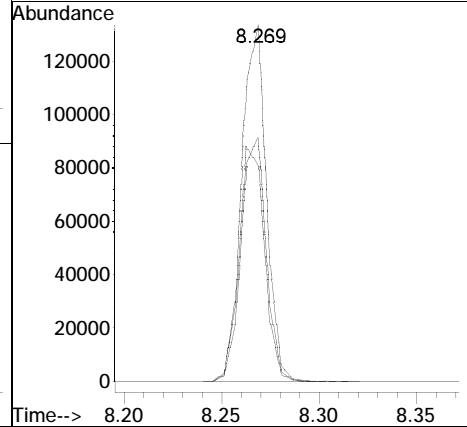
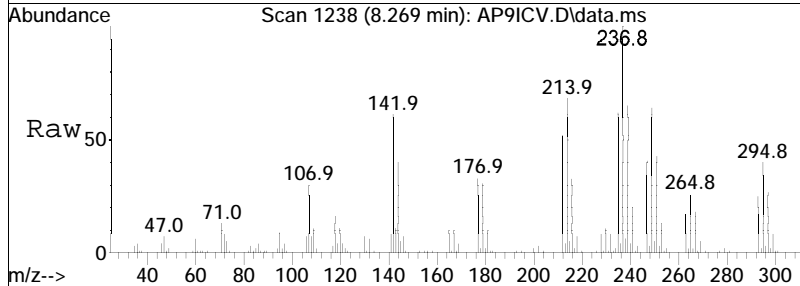
Tgt Ion	Resp	Lower	Upper
206	108121		
176	115.6	94.8	142.2
124	127.2	107.9	161.9

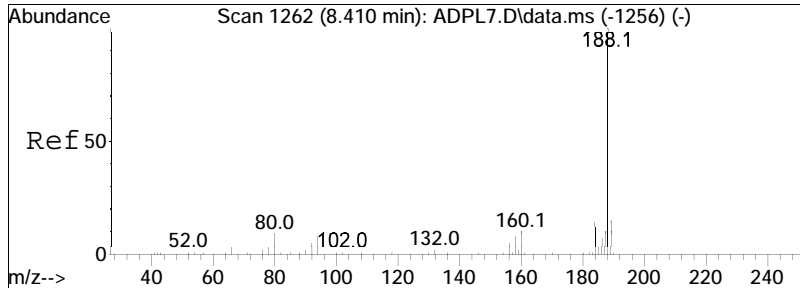




#85
 Pentachloronitrobenzene
 Concen: 55.09 ug/ml
 RT: 8.269 min Scan# 1238
 Delta R.T. -0.000 min
 Lab File: AP9ICV.D
 Acq: 1 Jun 2023 12:09 pm

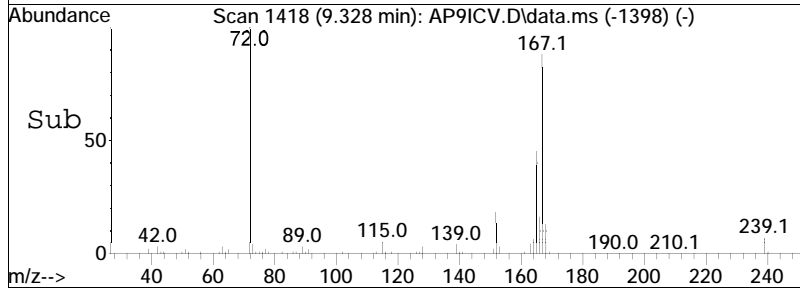
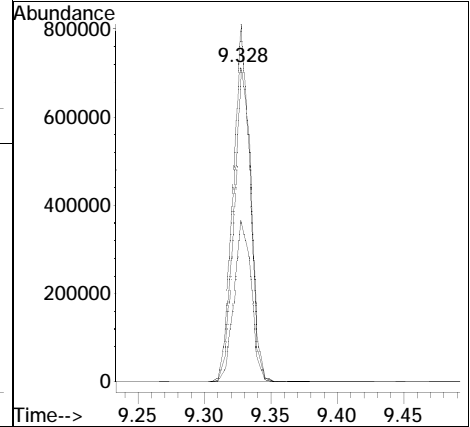
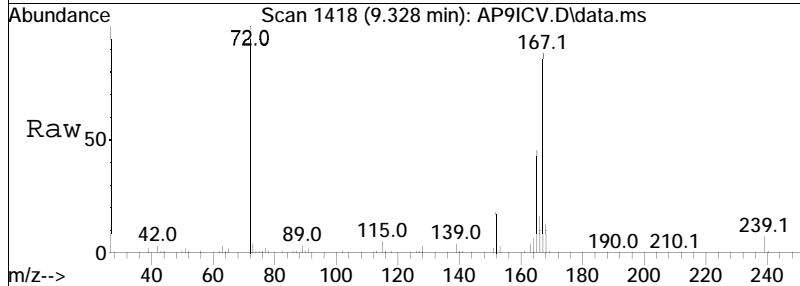
Tgt Ion	Ratio	Lower	Upper
237	100		
142	68.3	59.4	89.2
214	69.4	56.5	84.7





#99
 Diphenamid
 Concen: 53.48 ug/ml
 RT: 9.328 min Scan# 1418
 Delta R.T. -0.005 min
 Lab File: AP9ICV.D
 Acq: 1 Jun 2023 12:09 pm

Tgt Ion	Resp	Lower	Upper
167	100		
72	109.8	94.5	141.7
165	51.3	37.9	56.9



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : AP9ICV.D Operator : SV109:jg
Date Inj'd : 6/1/2023 12:09 pm Instrument : SV109
Sample : CQICV2,32,,AP9ICV Lot# 100Quant Date : 6/7/2023 2:45 pm

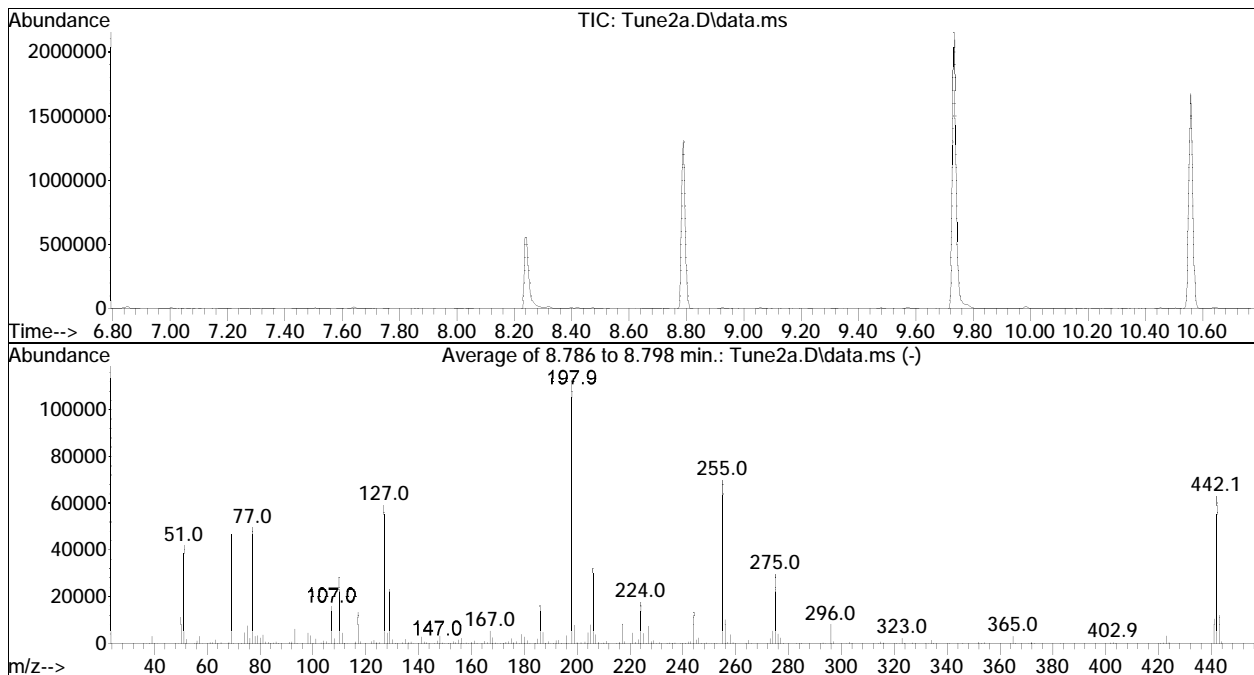
There are no manual integrations or false positives in this file.

DFTPP

Data Path : I:\8270\SV109\230531ical\
 Data File : Tune2a.D
 Acq On : 6 Jun 2023 1:37 pm
 Operator : SV109:jg
 Sample : Tune2a
 Misc : WG1788374,,
 ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Jun 07 14:45:05 2023

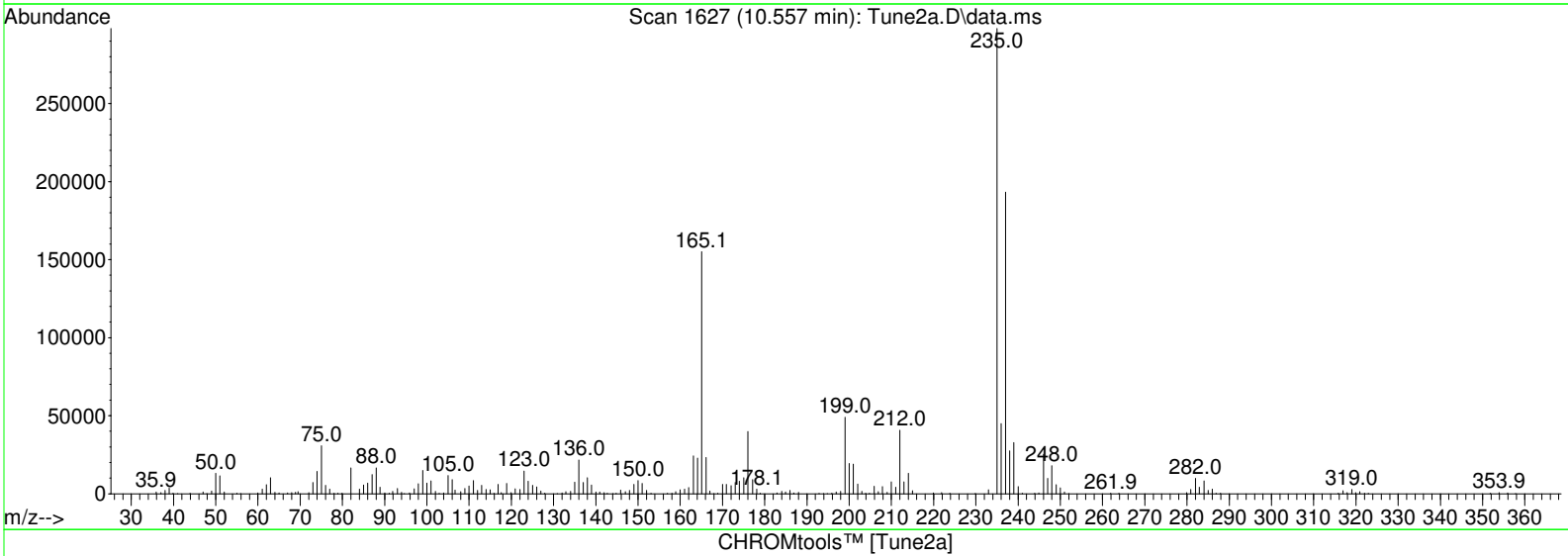
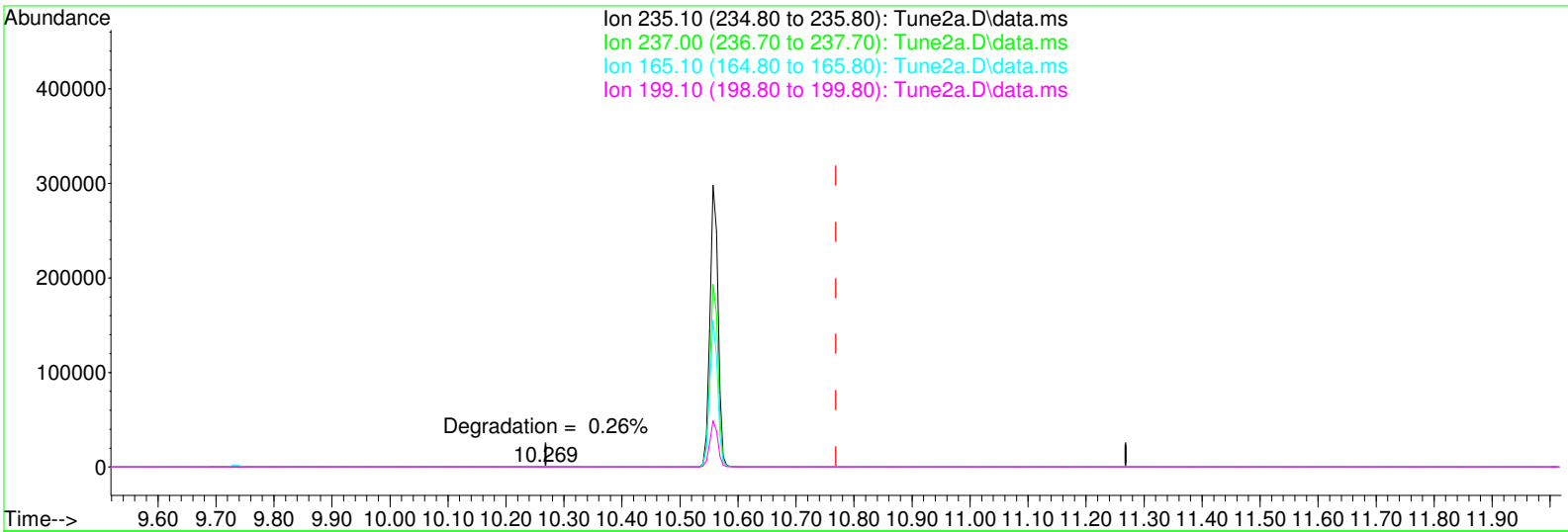


Spectrum Information: Average of 8.786 to 8.798 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.1	41936	PASS
68	69	0.00	2	1.4	655	PASS
69	69	100	100	100.0	46739	PASS
70	69	0.00	2	0.5	242	PASS
127	198	10	80	52.3	59061	PASS
197	198	0.00	2	0.1	156	PASS
198	198	100	100	100.0	112915	PASS
199	198	5	9	6.7	7559	PASS
275	198	10	60	26.2	29579	PASS
365	198	1	100	2.8	3210	PASS
441	442	0.01	24	16.2	10206	PASS
442	198	50	100	55.8	62955	PASS
443	442	15	24	18.9	11876	PASS

Data Path : I:\8270\SV109\230531ical\
 Data File : Tune2a.D
 Acq On : 6 Jun 2023 1:37 pm
 Operator : SV109:jg
 Sample : Tune2a
 Misc : WG1788374,,
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 06 15:59:19 2023
 Quant Method : I:\8270\SV109\230531ical\DftppSV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sun May 14 17:54:04 2023
 Response via : Initial Calibration



(6) DDT (T)

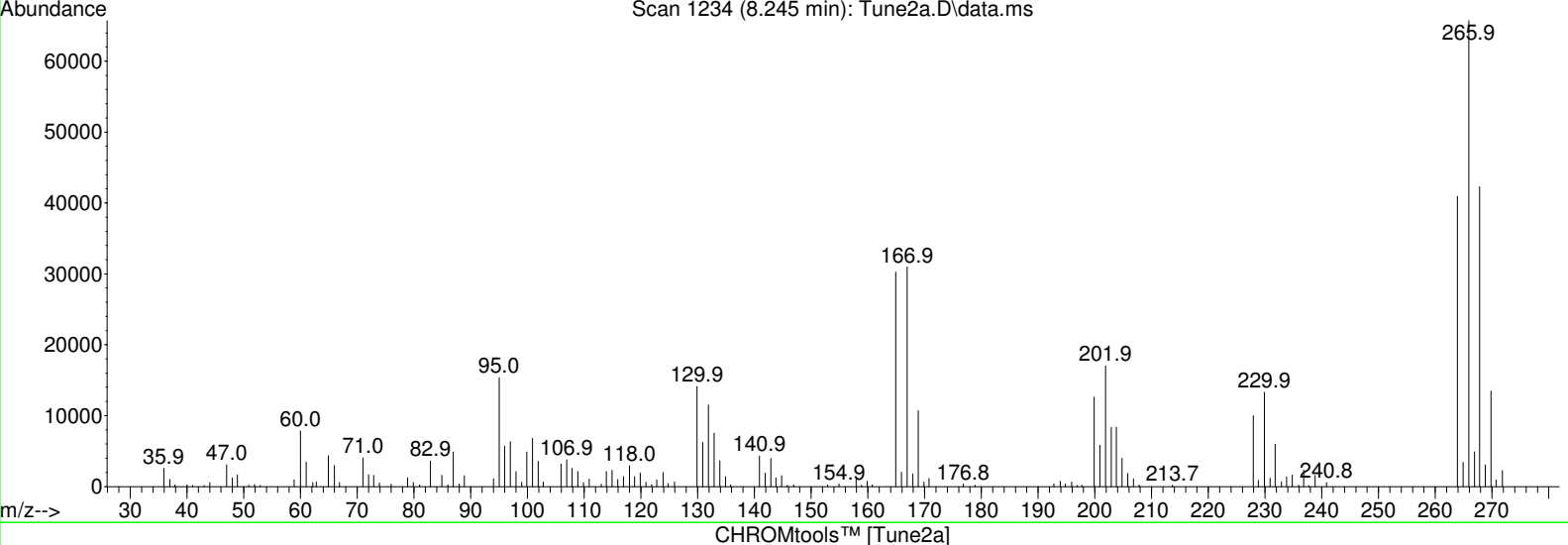
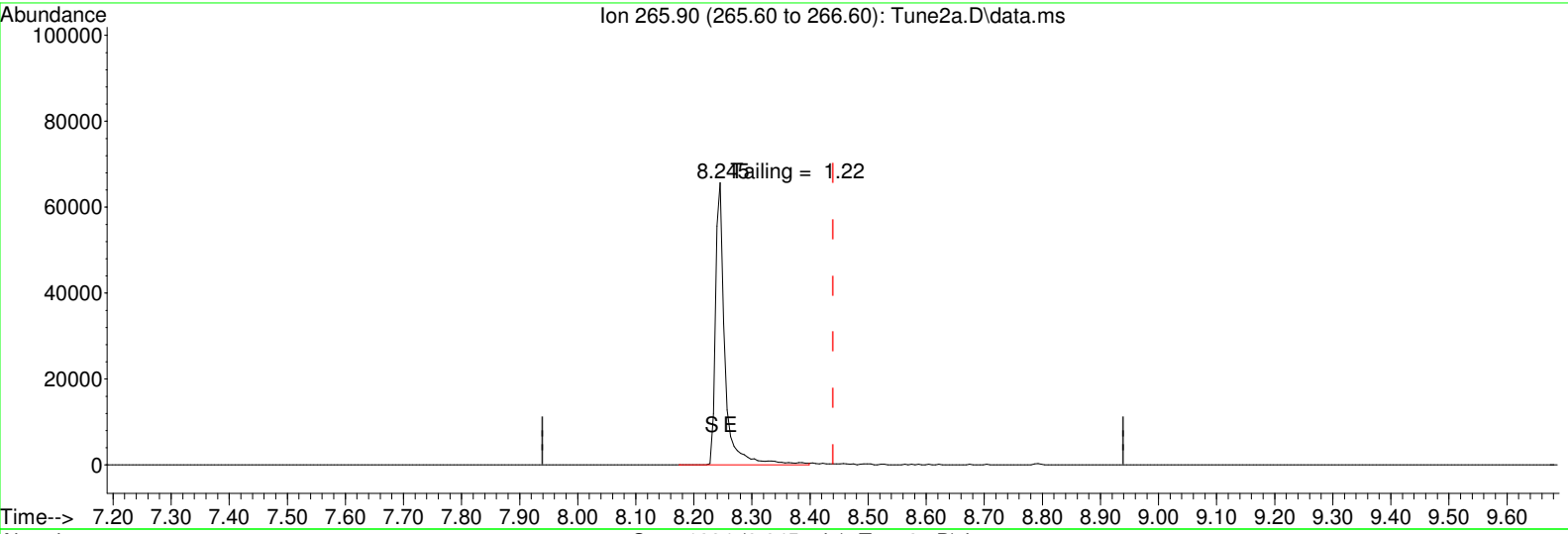
10.557min (-0.212) 47.66

response 290536

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.40	64.38
165.10	56.60	51.21
199.10	15.90	16.26

Data Path : I:\8270\SV109\230531ical\
 Data File : Tune2a.D
 Acq On : 6 Jun 2023 1:37 pm
 Operator : SV109:jg
 Sample : Tune2a
 Misc : WG1788374,,
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 06 15:59:19 2023
 Quant Method : I:\8270\SV109\230531ical\DftppSV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sun May 14 17:54:04 2023
 Response via : Initial Calibration



(1) Pentachlorophenol (T)

8.245min (-0.194) 34.60

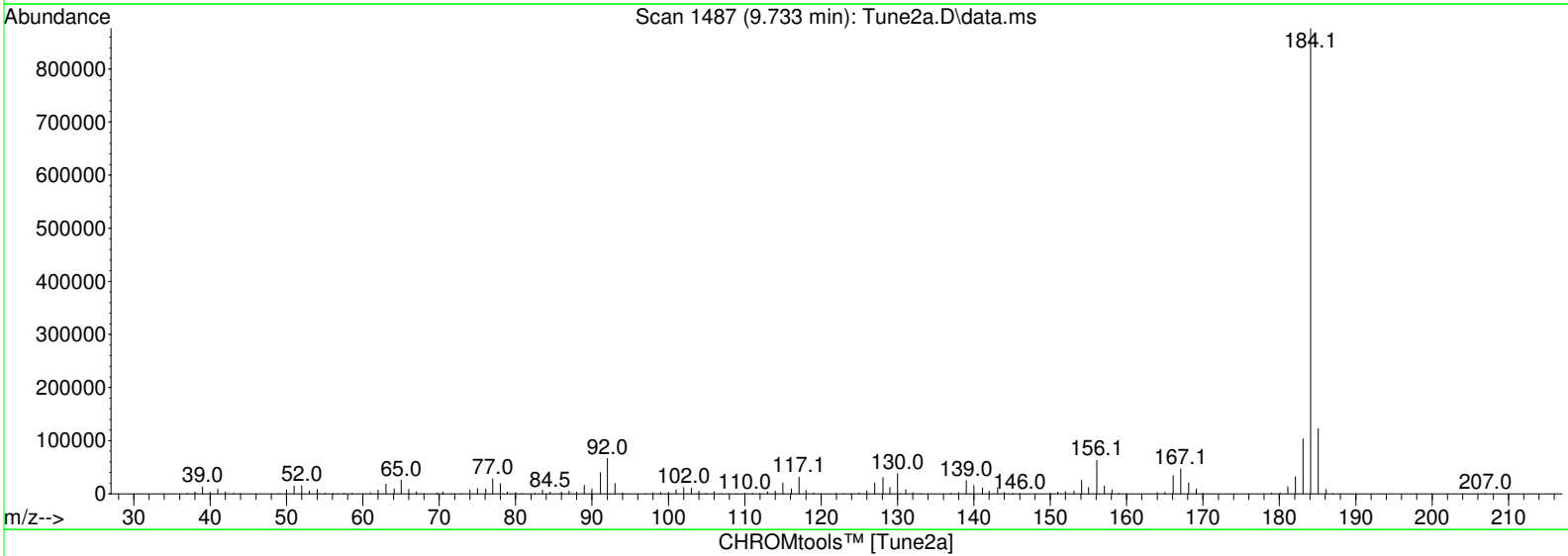
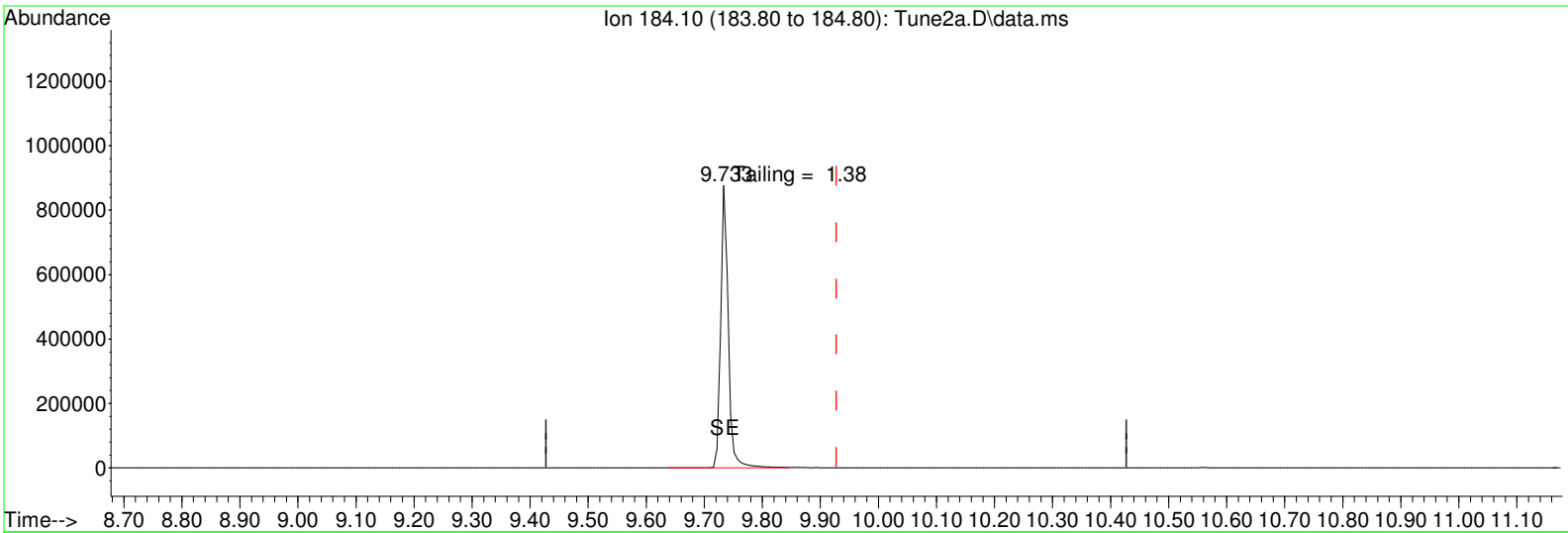
response 72669

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

CHROMtools™ [Tune2a]

Data Path : I:\8270\SV109\230531ical\
 Data File : Tune2a.D
 Acq On : 6 Jun 2023 1:37 pm
 Operator : SV109:jg
 Sample : Tune2a
 Misc : WG1788374,,
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 06 15:59:19 2023
 Quant Method : I:\8270\SV109\230531ical\DftppSV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sun May 14 17:54:04 2023
 Response via : Initial Calibration



(3) Benzidine (T)

9.733min (-0.194) 79.29

response 807164

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ADPL10a.D
 Acq On : 6 Jun 2023 3:57 pm
 Operator : SV109:jg
 Sample : IL21,32,,ADPL200 Lot# 10054
 Misc : WG1788374,,
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 07 12:49:21 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jun 05 13:52:21 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ADPL7a.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.022	152	214745	40.000	ug/ml	-0.02
Standard Area 1 = 157307			Recovery	=	136.51%	
86) IS3_Acenaphthene-d10	6.963	164	492004	40.000	ug/ml	-0.02
Standard Area 1 = 358272			Recovery	=	137.33%	
100) IS3_Phenanthrene-d10	8.380	188	1090779	40.000	ug/ml	-0.03
Standard Area 1 = 805406			Recovery	=	135.43%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.152	88	392908	166.288	ug/ml#	83
34) n-Decane	3.928	57	1227203	182.075	ug/ml	92
87) Atrazine	8.210	200	1081116	202.978	ug/ml	99
101) n-Octadecane	8.410	57	2125875	181.801	ug/ml#	90
102) Parathion	9.198	109	730511	206.271	ug/ml	96
103) 3,3'-Dimethylbenzidine	10.445	212	4428336	212.330	ug/ml	100

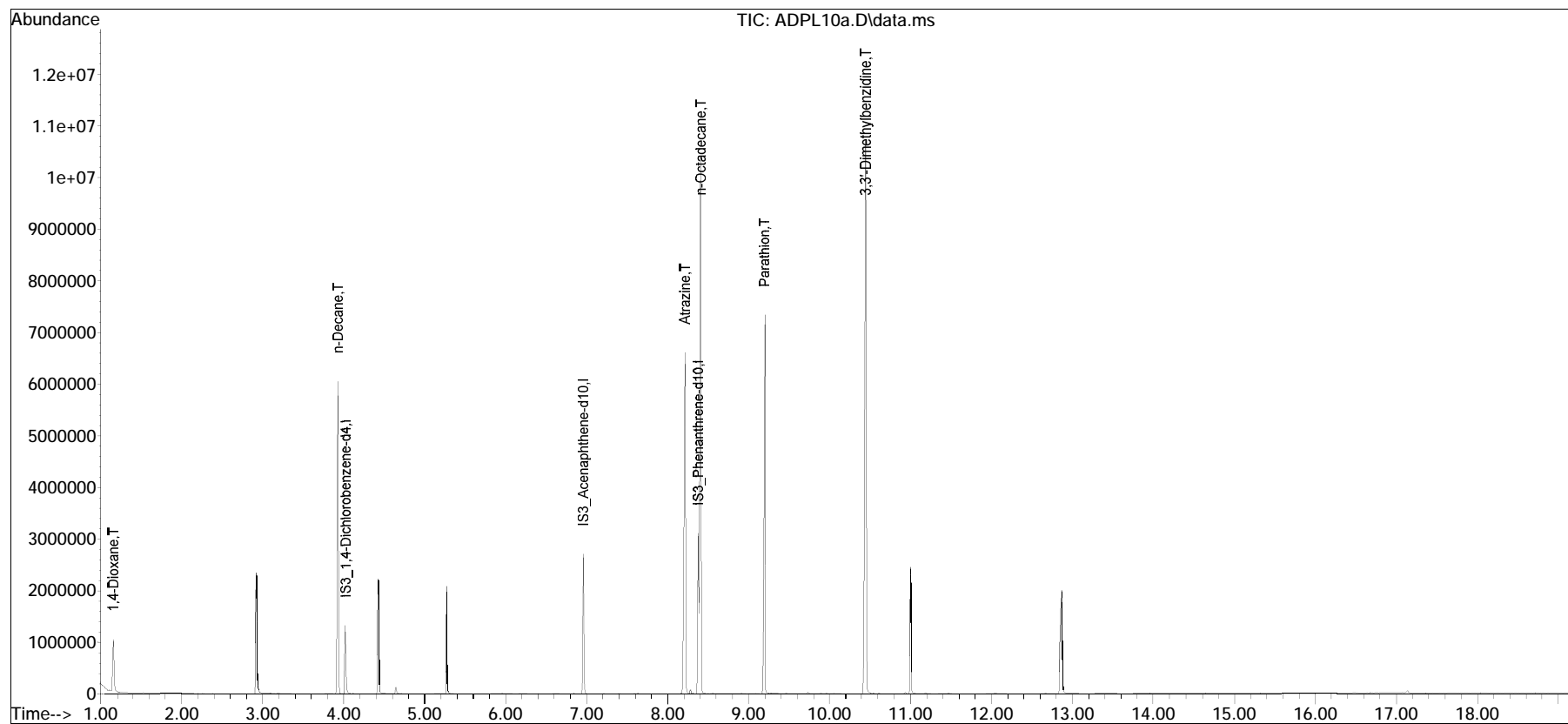
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531lical\
Data File : ADPL10a.D
Acq On : 6 Jun 2023 3:57 pm
Operator : SV109:jg
Sample : IL21,32,,ADPL200 Lot# 10054
Misc : WG1788374,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 07 12:49:21 2023
Quant Method : I:\8270\SV109\230531lical\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 05 13:52:21 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7a.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ADPL10a.D Operator : SV109:jg
Date Inj'd : 6/6/2023 3:57 pm Instrument : SV109
Sample : IL21,32,,ADPL200 Lot# 1005Quant Date : 6/7/2023 12:42 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ADPL9a.D
 Acq On : 6 Jun 2023 4:21 pm
 Operator : SV109:jg
 Sample : IL22,32,,ADPL150 Lot# 10055
 Misc : WG1788374,,
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 07 12:53:44 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jun 05 13:52:21 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ADPL7a.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.022	152	208324	40.000	ug/ml	-0.02
Standard Area 1 = 157307			Recovery	=	132.43%	
86) IS3_Acenaphthene-d10	6.963	164	477673	40.000	ug/ml	-0.02
Standard Area 1 = 358272			Recovery	=	133.33%	
100) IS3_Phenanthrene-d10	8.380	188	1054683	40.000	ug/ml	-0.03
Standard Area 1 = 805406			Recovery	=	130.95%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.152	88	303352	132.343	ug/ml#	84
34) n-Decane	3.928	57	910262	139.215	ug/ml	93
87) Atrazine	8.210	200	776768	150.213	ug/ml	99
101) n-Octadecane	8.404	57	1592049	140.809	ug/ml#	91
102) Parathion	9.192	109	528415	154.313	ug/ml	97
103) 3,3'-Dimethylbenzidine	10.445	212	3285829	162.941	ug/ml	100

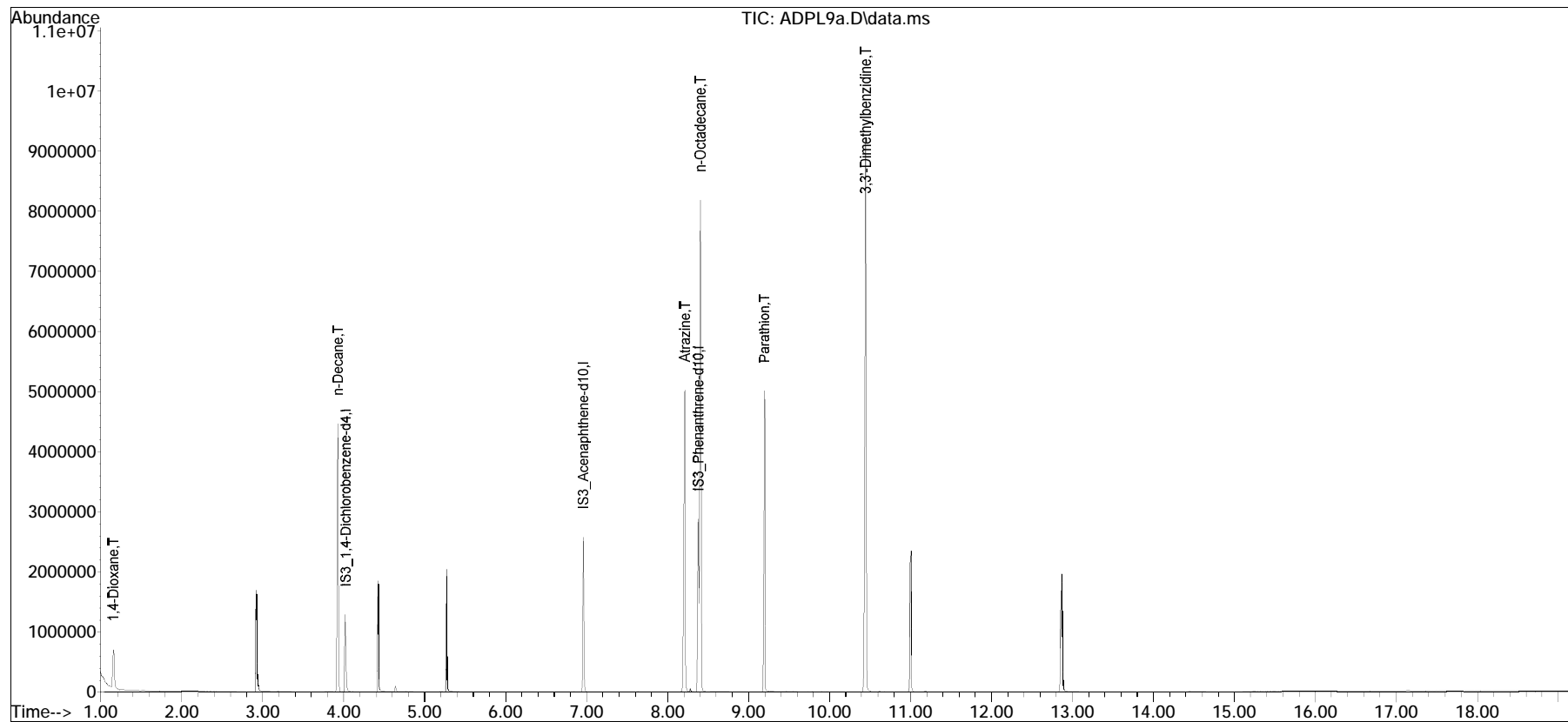
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531lical\
Data File : ADPL9a.D
Acq On : 6 Jun 2023 4:21 pm
Operator : SV109:jg
Sample : IL22,32,,ADPL150 Lot# 10055
Misc : WG1788374,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 07 12:53:44 2023
Quant Method : I:\8270\SV109\230531lical\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 05 13:52:21 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7a.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ADPL9a.D Operator : SV109:jg
Date Inj'd : 6/6/2023 4:21 pm Instrument : SV109
Sample : IL22,32,,ADPL150 Lot# 1005Quant Date : 6/7/2023 12:44 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ADPL8a.D
 Acq On : 6 Jun 2023 4:44 pm
 Operator : SV109:jg
 Sample : IL23,32,,ADPL100 Lot# 10056
 Misc : WG1788374,,
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 07 12:53:04 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jun 05 13:52:21 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ADPL7a.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.022	152	175452	40.000	ug/ml	-0.02
Standard Area 1 = 157307			Recovery	=	111.53%	
86) IS3_Acenaphthene-d10	6.963	164	418567	40.000	ug/ml	-0.02
Standard Area 1 = 358272			Recovery	=	116.83%	
100) IS3_Phenanthrene-d10	8.381	188	938901	40.000	ug/ml	-0.03
Standard Area 1 = 805406			Recovery	=	116.57%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.140	88	183476	95.041	ug/ml#	85
34) n-Decane	3.922	57	529739	96.197	ug/ml	93
87) Atrazine	8.204	200	463927	102.384	ug/ml	99
101) n-Octadecane	8.404	57	1003770	99.726	ug/ml#	92
102) Parathion	9.192	109	307932	101.014	ug/ml	94
103) 3,3'-Dimethylbenzidine	10.439	212	1973146	109.912	ug/ml	100

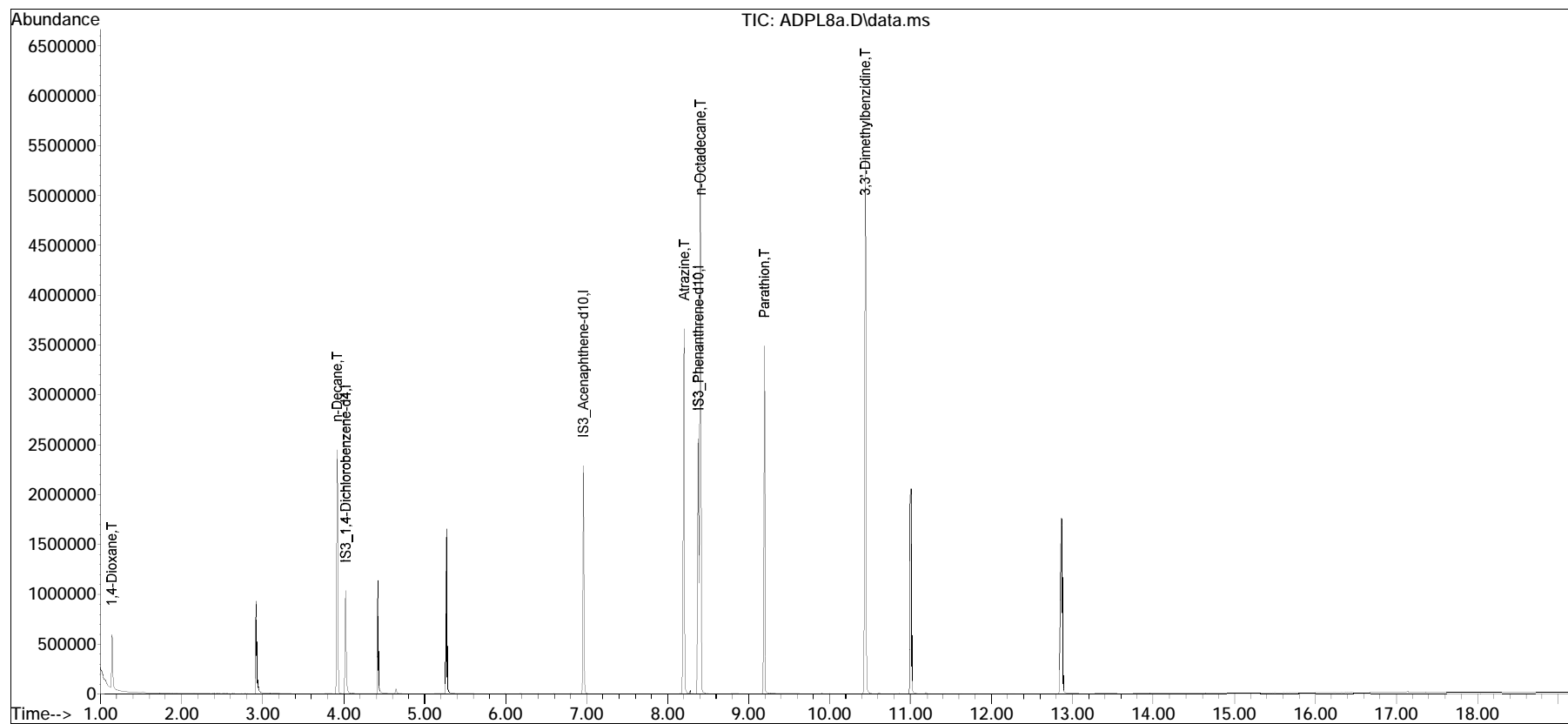
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531lical\
Data File : ADPL8a.D
Acq On : 6 Jun 2023 4:44 pm
Operator : SV109:jg
Sample : IL23,32,,ADPL100 Lot# 10056
Misc : WG1788374,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 07 12:53:04 2023
Quant Method : I:\8270\SV109\230531lical\Fs230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 05 13:52:21 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7a.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ADPL8a.D Operator : SV109:jg
Date Inj'd : 6/6/2023 4:44 pm Instrument : SV109
Sample : IL23,32,,ADPL100 Lot# 1005Quant Date : 6/7/2023 12:43 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ADPL7a.D
 Acq On : 6 Jun 2023 5:08 pm
 Operator : SV109:jg
 Sample : IL24,32,,ADPL50 Lot# 10057
 Misc : WG1788374,,
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 07 12:52:44 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jun 05 13:52:21 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ADPL7a.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.022	152	157307	40.000	ug/ml	-0.02
Standard Area 1 = 157307			Recovery	=	100.00%	
86) IS3_Acenaphthene-d10	6.963	164	358272	40.000	ug/ml	-0.02
Standard Area 1 = 358272			Recovery	=	100.00%	
100) IS3_Phenanthrene-d10	8.380	188	805406	40.000	ug/ml	-0.03
Standard Area 1 = 805406			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.152	88	85792	49.567	ug/ml#	86
34) n-Decane	3.928	57	241113	48.835	ug/ml	94
87) Atrazine	8.198	200	194009	50.021	ug/ml	99
101) n-Octadecane	8.404	57	428329	49.609	ug/ml#	93
102) Parathion	9.192	109	120454	46.063	ug/ml	94
103) 3,3'-Dimethylbenzidine	10.439	212	806080	52.344	ug/ml	99

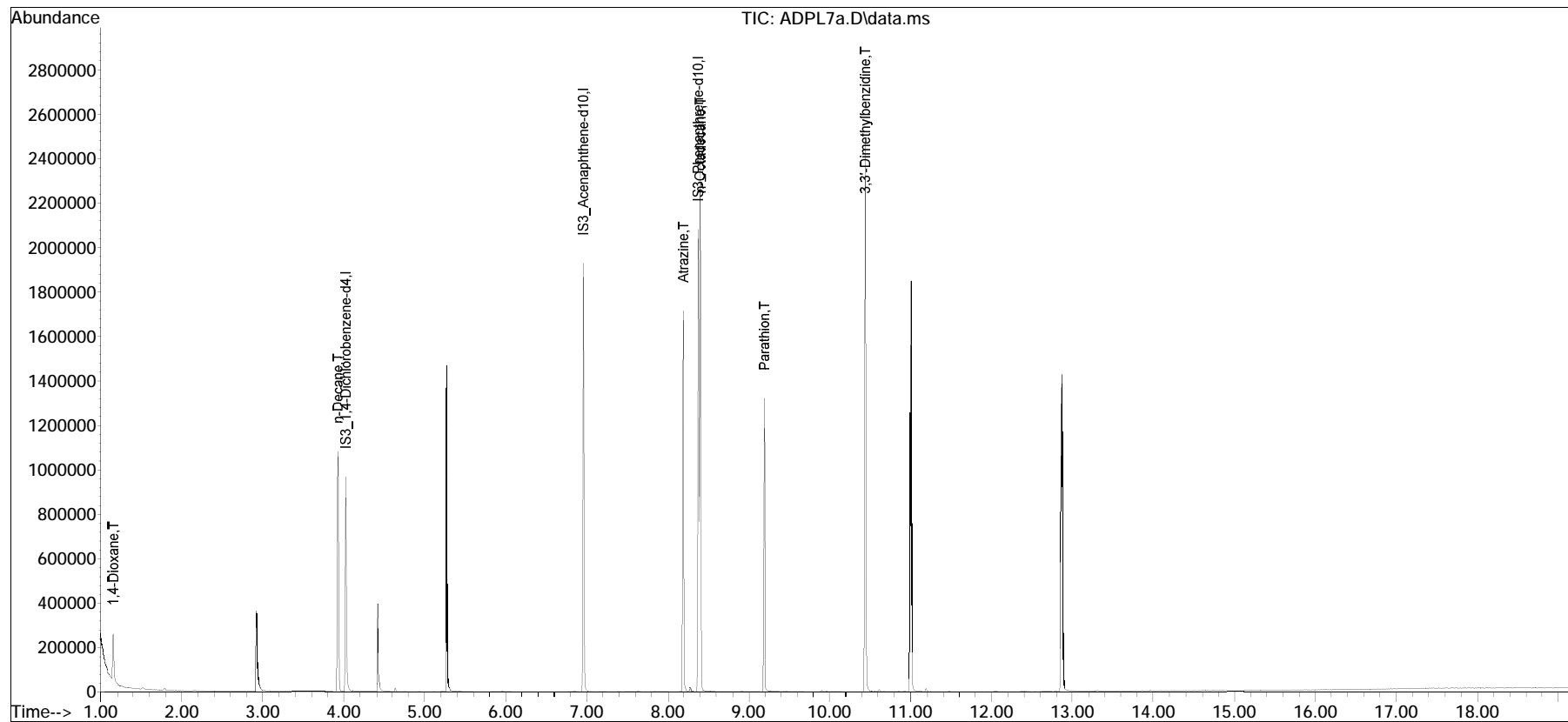
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531lical\
Data File : ADPL7a.D
Acq On : 6 Jun 2023 5:08 pm
Operator : SV109:jg
Sample : IL24,32,,ADPL50 Lot# 10057
Misc : WG1788374,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 07 12:52:44 2023
Quant Method : I:\8270\SV109\230531lical\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 05 13:52:21 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7a.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ADPL7a.D Operator : SV109:jg
Date Inj'd : 6/6/2023 5:08 pm Instrument : SV109
Sample : IL24,32,,ADPL50 Lot# 10057Quant Date : 6/7/2023 12:43 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ADPL6a.D
 Acq On : 6 Jun 2023 5:32 pm
 Operator : SV109:jg
 Sample : IL25,32,,ADPL20 Lot# 10058
 Misc : WG1788374,,
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 07 12:52:30 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jun 05 13:52:21 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ADPL7a.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.022	152	196627	40.000	ug/ml	-0.02
Standard Area 1 = 157307			Recovery	=	125.00%	
86) IS3_Acenaphthene-d10	6.963	164	458767	40.000	ug/ml	-0.02
Standard Area 1 = 358272			Recovery	=	128.05%	
100) IS3_Phenanthrene-d10	8.381	188	1044851	40.000	ug/ml	-0.03
Standard Area 1 = 805406			Recovery	=	129.73%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.146	88	41202	19.044	ug/ml#	84
34) n-Decane	3.922	57	120719	19.561	ug/ml	93
87) Atrazine	8.192	200	98702	19.874	ug/ml	99
101) n-Octadecane	8.404	57	227806	20.338	ug/ml	93
102) Parathion	9.192	109	57423	16.927	ug/ml	93
103) 3,3'-Dimethylbenzidine	10.439	212	402499	20.147	ug/ml	100

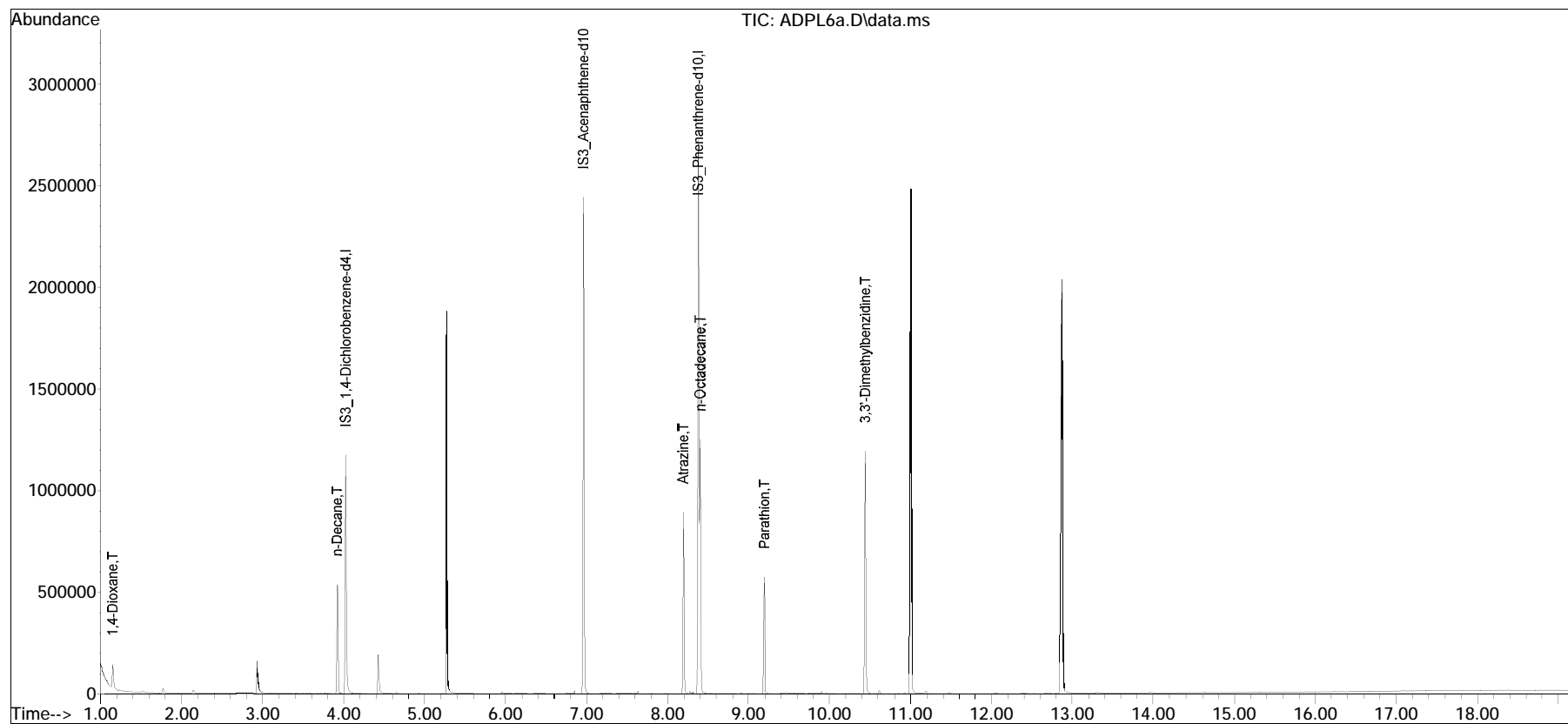
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531lical\
Data File : ADPL6a.D
Acq On : 6 Jun 2023 5:32 pm
Operator : SV109:jg
Sample : IL25,32,,ADPL20 Lot# 10058
Misc : WG1788374,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 07 12:52:30 2023
Quant Method : I:\8270\SV109\230531lical\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 05 13:52:21 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7a.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ADPL6a.D Operator : SV109:jg
Date Inj'd : 6/6/2023 5:32 pm Instrument : SV109
Sample : IL25,32,,ADPL20 Lot# 10058Quant Date : 6/7/2023 12:43 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ADPL5a.D
 Acq On : 6 Jun 2023 5:56 pm
 Operator : SV109:jg
 Sample : IL26,32,,ADPL10 Lot# 10059
 Misc : WG1788374,,
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 07 12:52:04 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jun 05 13:52:21 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ADPL7a.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.022	152	209301	40.000	ug/ml	-0.02
Standard Area 1 = 157307			Recovery	=	133.05%	
86) IS3_Acenaphthene-d10	6.963	164	496104	40.000	ug/ml	-0.02
Standard Area 1 = 358272			Recovery	=	138.47%	
100) IS3_Phenanthrene-d10	8.381	188	1144069	40.000	ug/ml	-0.03
Standard Area 1 = 805406			Recovery	=	142.05%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.146	88	21419	9.301	ug/ml#	80
34) n-Decane	3.928	57	64442	9.810	ug/ml	93
87) Atrazine	8.192	200	52672	9.807	ug/ml	99
101) n-Octadecane	8.404	57	121877	9.937	ug/ml#	93
102) Parathion	9.186	109	29338	7.898	ug/ml	92
103) 3,3'-Dimethylbenzidine	10.439	212	202641	9.264	ug/ml	99

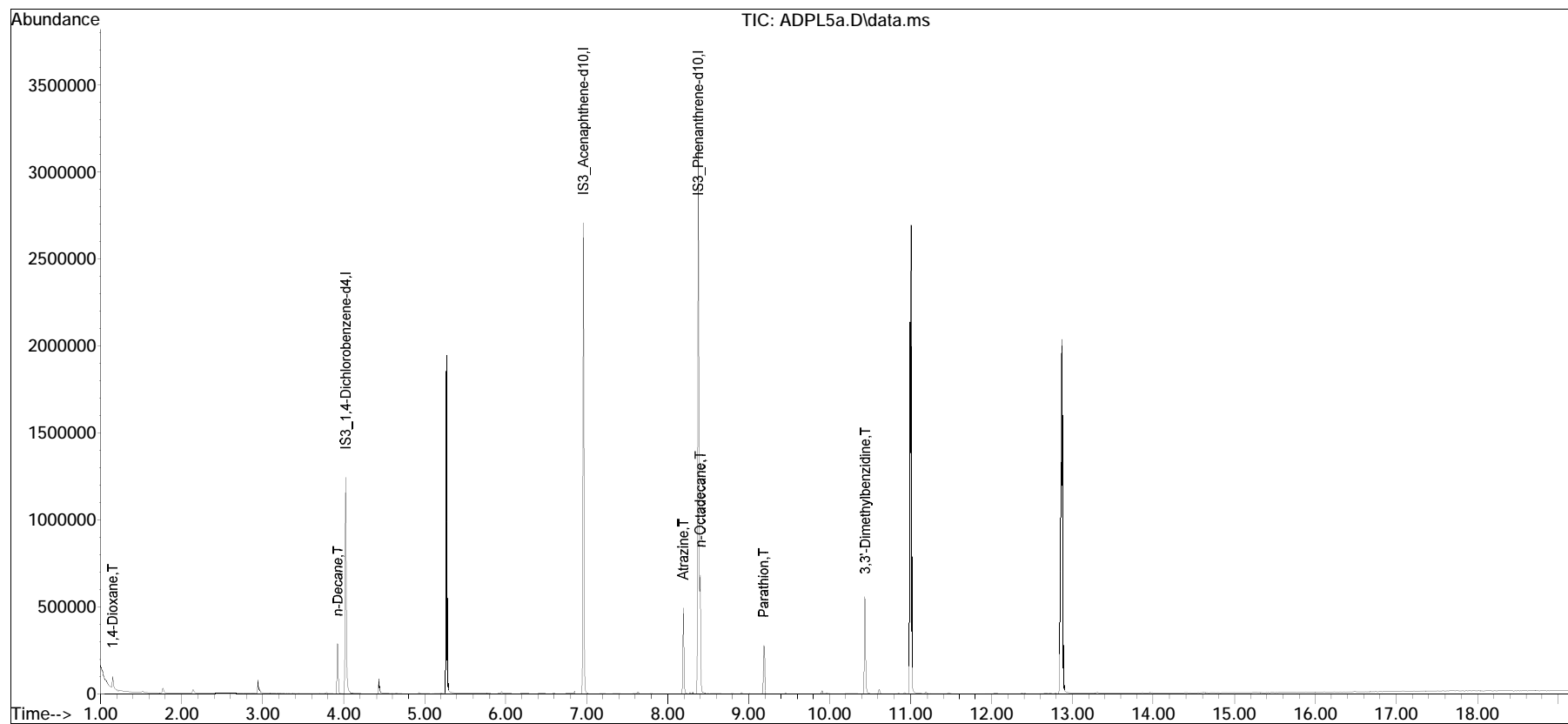
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531lical\
Data File : ADPL5a.D
Acq On : 6 Jun 2023 5:56 pm
Operator : SV109:jg
Sample : IL26,32,,ADPL10 Lot# 10059
Misc : WG1788374,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 07 12:52:04 2023
Quant Method : I:\8270\SV109\230531lical\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 05 13:52:21 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7a.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ADPL5a.D Operator : SV109:jg
Date Inj'd : 6/6/2023 5:56 pm Instrument : SV109
Sample : IL26,32,,ADPL10 Lot# 10059 Quant Date : 6/7/2023 12:43 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ADPL4a.D
 Acq On : 6 Jun 2023 6:19 pm
 Operator : SV109:jg
 Sample : IL27,32,,ADPL5 Lot# 10060
 Misc : WG1788374,,
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 07 12:51:09 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jun 05 13:52:21 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ADPL7a.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.022	152	221859	40.000	ug/ml	-0.02
Standard Area 1 = 157307			Recovery	=	141.04%	
86) IS3_Acenaphthene-d10	6.963	164	525511	40.000	ug/ml	-0.02
Standard Area 1 = 358272			Recovery	=	146.68%	
100) IS3_Phenanthrene-d10	8.381	188	1209950	40.000	ug/ml	-0.03
Standard Area 1 = 805406			Recovery	=	150.23%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.152	88	11463	4.696	ug/ml#	84
34) n-Decane	3.928	57	32610	4.683	ug/ml	94
87) Atrazine	8.192	200	27538	4.841	ug/ml	99
101) n-Octadecane	8.404	57	63874	4.924	ug/ml#	92
102) Parathion	9.186	109	14455	3.680	ug/ml	91
103) 3,3'-Dimethylbenzidine	10.439	212	97821	4.228	ug/ml	100

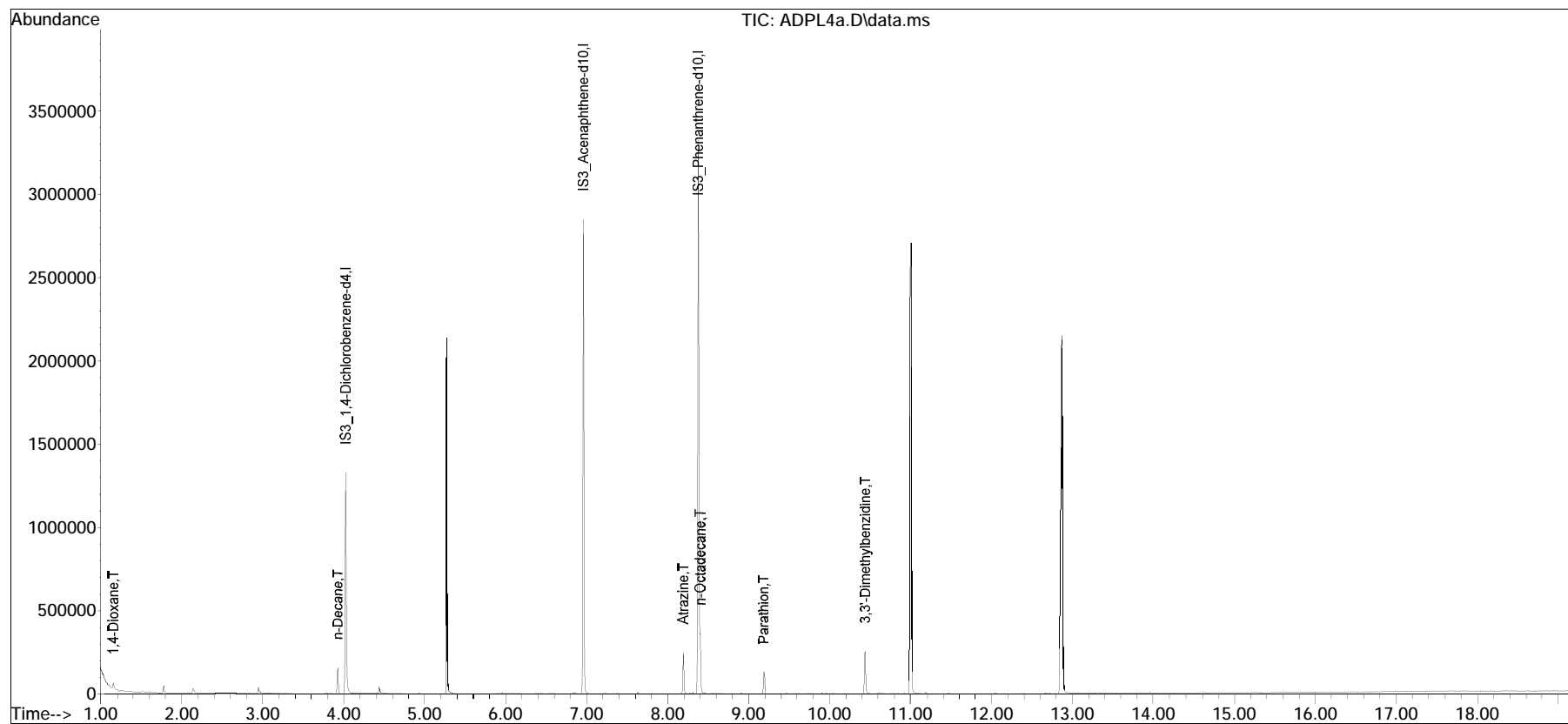
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531lical\
Data File : ADPL4a.D
Acq On : 6 Jun 2023 6:19 pm
Operator : SV109:jg
Sample : IL27,32,,ADPL5 Lot# 10060
Misc : WG1788374,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 07 12:51:09 2023
Quant Method : I:\8270\SV109\230531lical\Fs230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 05 13:52:21 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7a.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ADPL4a.D Operator : SV109:jg
Date Inj'd : 6/6/2023 6:19 pm Instrument : SV109
Sample : IL27,32,,ADPL5 Lot# 10060 Quant Date : 6/7/2023 12:43 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ADPL3a.D
 Acq On : 6 Jun 2023 6:43 pm
 Operator : SV109:jg
 Sample : IL28,32,,ADPL3 Lot# 10061
 Misc : WG1788374,,
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 07 12:50:35 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jun 05 13:52:21 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ADPL7a.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.022	152	209060	40.000	ug/ml	-0.02
Standard Area 1 = 157307			Recovery	=	132.90%	
86) IS3_Acenaphthene-d10	6.963	164	510552	40.000	ug/ml	-0.02
Standard Area 1 = 358272			Recovery	=	142.50%	
100) IS3_Phenanthrene-d10	8.380	188	1170561	40.000	ug/ml	-0.03
Standard Area 1 = 805406			Recovery	=	145.34%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.151	88	6294	2.736	ug/ml	88
34) n-Decane	3.928	57	18587	2.833	ug/ml	94
87) Atrazine	8.192	200	15032	2.720	ug/ml	98
101) n-Octadecane	8.404	57	36717	2.926	ug/ml#	92
102) Parathion	9.186	109	8129	2.139	ug/ml#	90
103) 3,3'-Dimethylbenzidine	10.439	212	51564	2.304	ug/ml	100

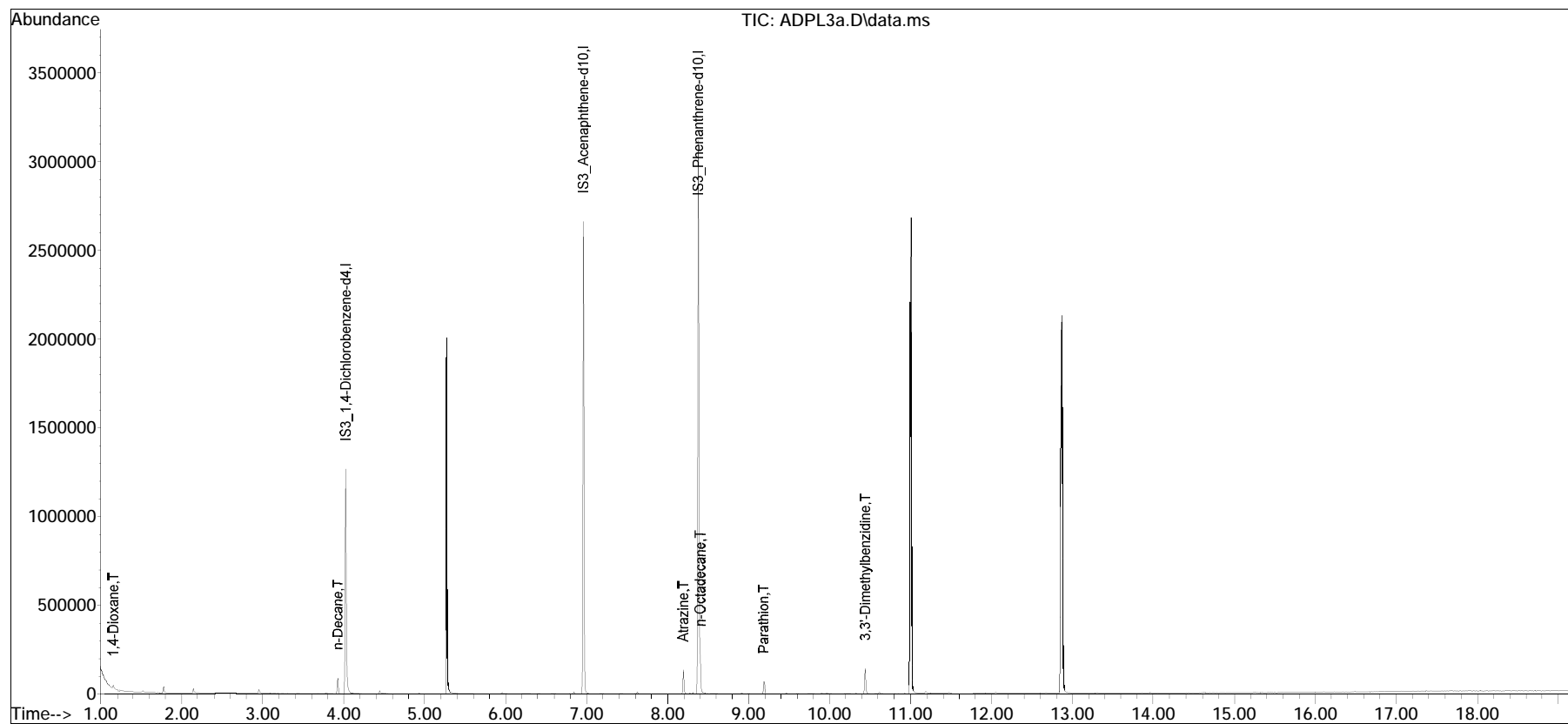
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531lical\
Data File : ADPL3a.D
Acq On : 6 Jun 2023 6:43 pm
Operator : SV109:jg
Sample : IL28,32,,ADPL3 Lot# 10061
Misc : WG1788374,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 07 12:50:35 2023
Quant Method : I:\8270\SV109\230531lical\Fs230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 05 13:52:21 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7a.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ADPL3a.D Operator : SV109:jg
Date Inj'd : 6/6/2023 6:43 pm Instrument : SV109
Sample : IL28,32,,ADPL3 Lot# 10061 Quant Date : 6/7/2023 12:42 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ADPL2a.D
 Acq On : 6 Jun 2023 7:06 pm
 Operator : SV109:jg
 Sample : IL29,32,,ADPL2 Lot# 10062
 Misc : WG1788374,,
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jun 07 12:50:06 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jun 05 13:52:21 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ADPL7a.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.022	152	212749	40.000	ug/ml	-0.02
Standard Area 1 = 157307			Recovery	=	135.24%	
86) IS3_Acenaphthene-d10	6.963	164	508220	40.000	ug/ml	-0.02
Standard Area 1 = 358272			Recovery	=	141.85%	
100) IS3_Phenanthrene-d10	8.381	188	1149371	40.000	ug/ml	-0.03
Standard Area 1 = 805406			Recovery	=	142.71%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.152	88	4692M6	2.004	ug/ml	
34) n-Decane	3.928	57	12449	1.864	ug/ml	97
87) Atrazine	8.192	200	9407	1.710	ug/ml	96
101) n-Octadecane	8.404	57	23974	1.946	ug/ml#	93
102) Parathion	9.186	109	4926	1.320	ug/ml	84
103) 3,3'-Dimethylbenzidine	10.439	212	29981	1.364	ug/ml	98

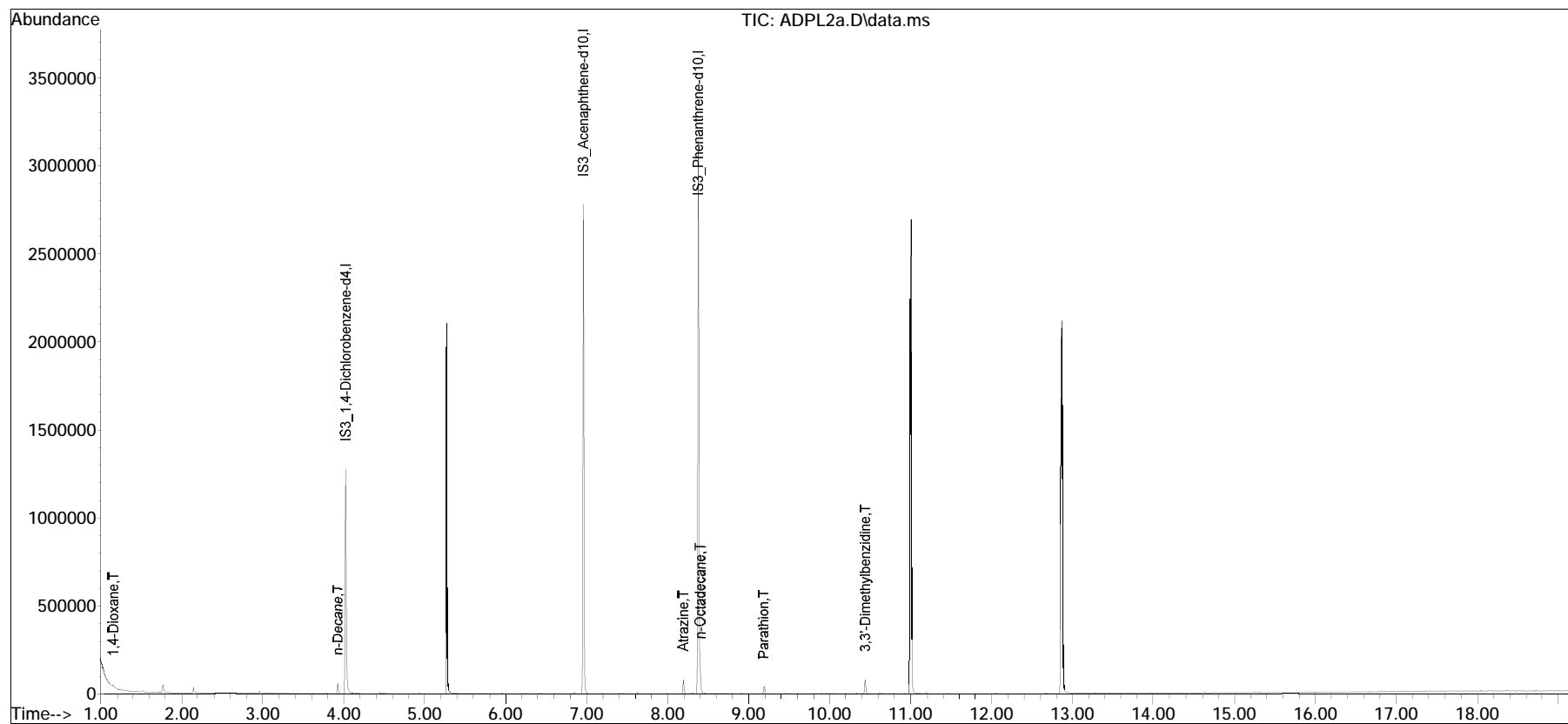
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531lical\
Data File : ADPL2a.D
Acq On : 6 Jun 2023 7:06 pm
Operator : SV109:jg
Sample : IL29,32,,ADPL2 Lot# 10062
Misc : WG1788374,,
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jun 07 12:50:06 2023
Quant Method : I:\8270\SV109\230531lical\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 05 13:52:21 2023
Response via : Initial Calibration

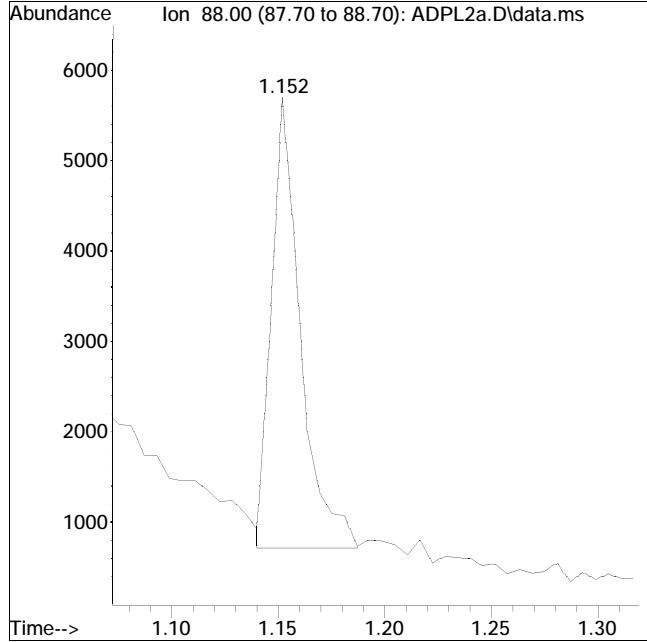
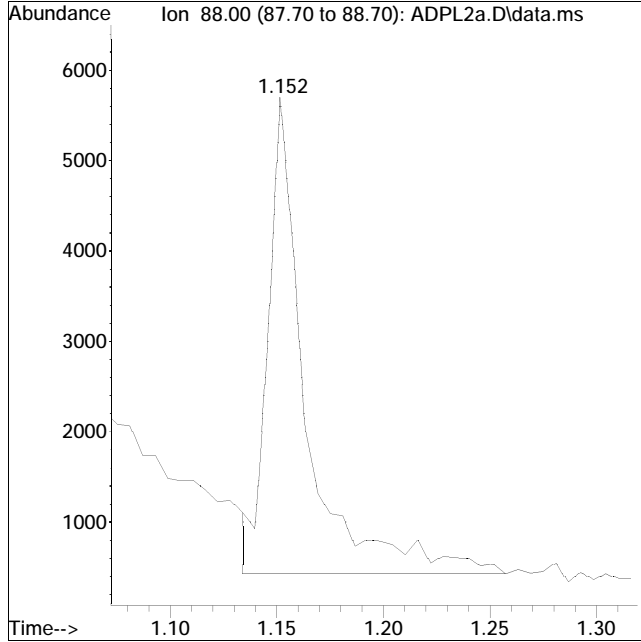
Sub List : ADPical_REV2 - ADP sublistal\ADPL7a.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ADPL2a.D Operator : SV109:jg
Date Inj'd : 6/6/2023 7:06 pm Instrument : SV109
Sample : IL29,32,,ADPL2 Lot# 10062 Quant Date : 6/7/2023 12:42 pm

Compound #33: 1,4-Dioxane



Original Peak Response = 6491

Manual Peak Response = 4692 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ADPL1a.D
 Acq On : 6 Jun 2023 7:30 pm
 Operator : SV109:jg
 Sample : IL30,32,,ADPL1 Lot# 10063
 Misc : WG1788374,,
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jun 07 13:40:26 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 13:31:08 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ADPL7a.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.022	152	208323	40.000	ug/ml	-0.02
Standard Area 1 = 157307			Recovery	=	132.43%	
86) IS3_Acenaphthene-d10	6.963	164	491533	40.000	ug/ml	-0.02
Standard Area 1 = 358272			Recovery	=	137.20%	
100) IS3_Phenanthrene-d10	8.380	188	1127241	40.000	ug/ml	-0.03
Standard Area 1 = 805406			Recovery	=	139.96%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.157	88	1155M6	0.536	ug/ml	
34) n-Decane	3.928	57	2783	0.453	ug/ml#	85
87) Atrazine	8.192	200	2282	0.441	ug/ml	96
101) n-Octadecane	8.404	57	5744	0.487	ug/ml	86
102) Parathion	9.192	109	1155	0.347	ug/ml#	78
103) 3,3'-Dimethylbenzidine	10.445	212	3570	0.169	ug/ml	97

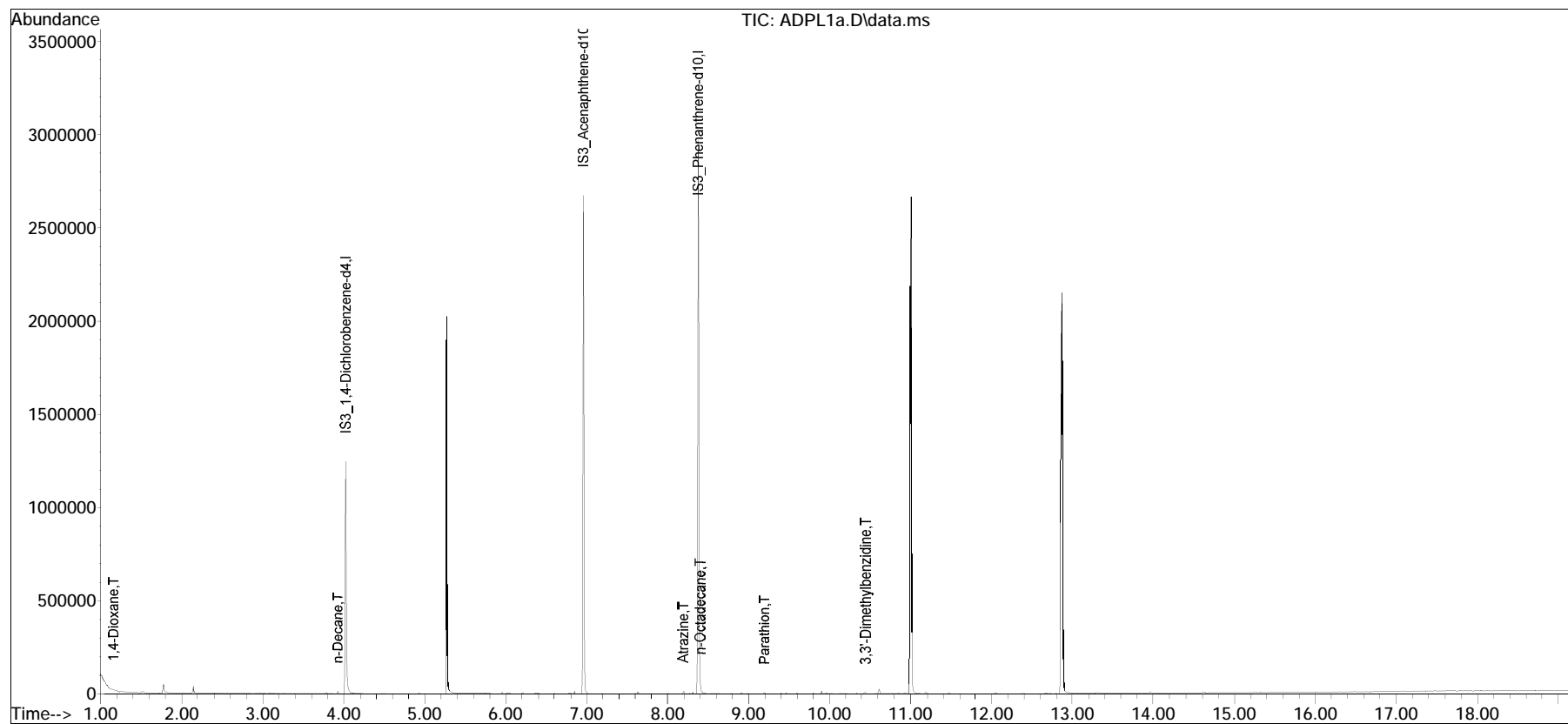
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
Data File : ADPL1a.D
Acq On : 6 Jun 2023 7:30 pm
Operator : SV109:jg
Sample : IL30,32,,ADPL1 Lot# 10063
Misc : WG1788374,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jun 07 13:40:26 2023
Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 07 13:31:08 2023
Response via : Initial Calibration

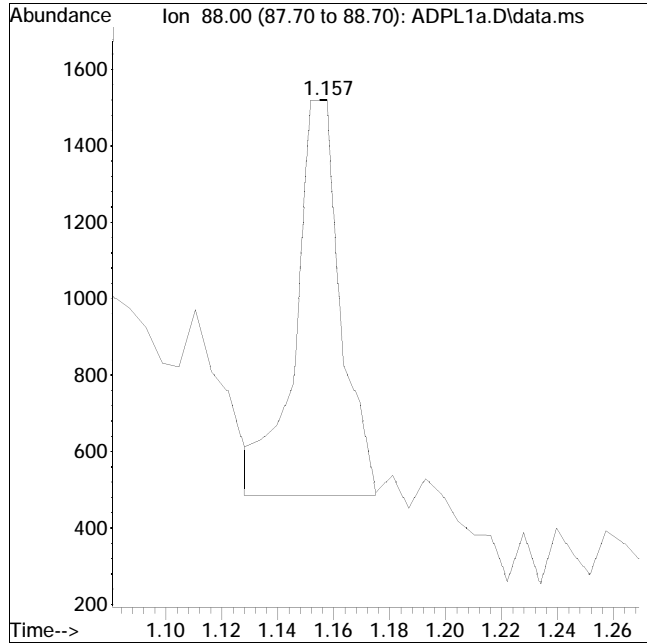
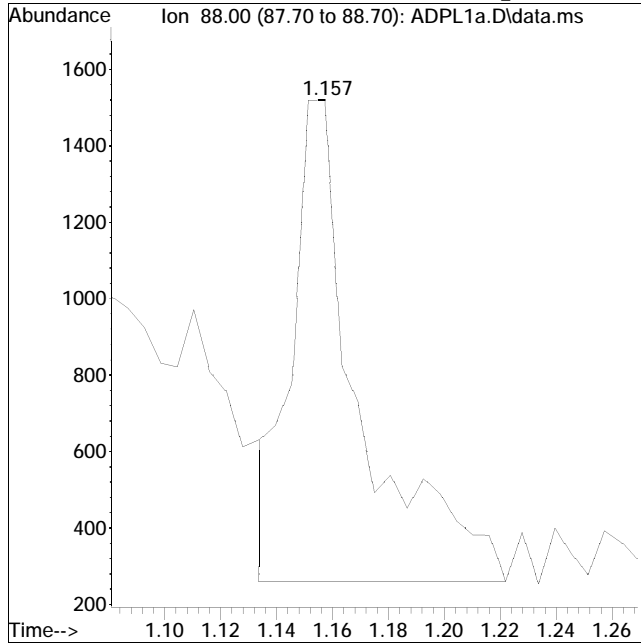
Sub List : ADPical_REV2 - ADP sublistal\ADPL7a.D•



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ADPL1a.D Operator : SV109:jg
Date Inj'd : 6/6/2023 7:30 pm Instrument : SV109
Sample : IL30,32,,ADPL1 Lot# 10063 Quant Date : 6/7/2023 1:40 pm

Compound #33: 1,4-Dioxane



Original Peak Response = 2139

Manual Peak Response = 1155 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\230531ical\
 Data File : ADPICVa.D
 Acq On : 6 Jun 2023 7:53 pm
 Operator : SV109:jg
 Sample : CQICV3,32,,ADPICV Lot# 10064
 Misc : WG1788374,,
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 07 12:56:13 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:49 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32 I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	130	-0.02
33 T	1,4-Dioxane	0.414	0.376	9.2	112	-0.02
34 T	n-Decane	1.180	1.104	6.4	117	-0.03
86 I	IS3_Acenaphthene-d10	1.000	1.000	0.0	141	-0.02
87 T	Atrazine	0.421	0.381	9.5	124	-0.02
100 I	IS3_Phenanthrene-d10	1.000	1.000	0.0	144	-0.03
101 T	n-Octadecane	0.419	0.363	13.4	123	-0.02
102 T	Parathion	0.118	0.102	13.6	123	-0.02
103 T	3,3'-Dimethylbenzidine	0.750	0.704	6.1	126	-0.03

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531ical\
 Data File : ADPICVa.D
 Acq On : 6 Jun 2023 7:53 pm
 Operator : SV109:jg
 Sample : CQICV3,32,,ADPICV Lot# 10064
 Misc : WG1788374,,
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 07 12:56:13 2023
 Quant Method : I:\8270\SV109\230531ical\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 07 12:55:49 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\230531ical\ADPL7a.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.022	152	204356	40.000	ug/ml	-0.02
Standard Area 1 = 157307			Recovery	=	129.91%	
86) IS3_Acenaphthene-d10	6.963	164	503715	40.000	ug/ml	-0.02
Standard Area 1 = 358272			Recovery	=	140.60%	
100) IS3_Phenanthrene-d10	8.380	188	1157104	40.000	ug/ml	-0.03
Standard Area 1 = 805406			Recovery	=	143.67%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.146	88	96075	45.460	ug/ml#	83
34) n-Decane	3.922	57	282070	46.782	ug/ml	93
87) Atrazine	8.198	200	240080	45.313	ug/ml	99
101) n-Octadecane	8.404	57	525589	43.409	ug/ml#	93
102) Parathion	9.192	109	147845	43.289	ug/ml	95
103) 3,3'-Dimethylbenzidine	10.439	212	1018784	46.981	ug/ml	100

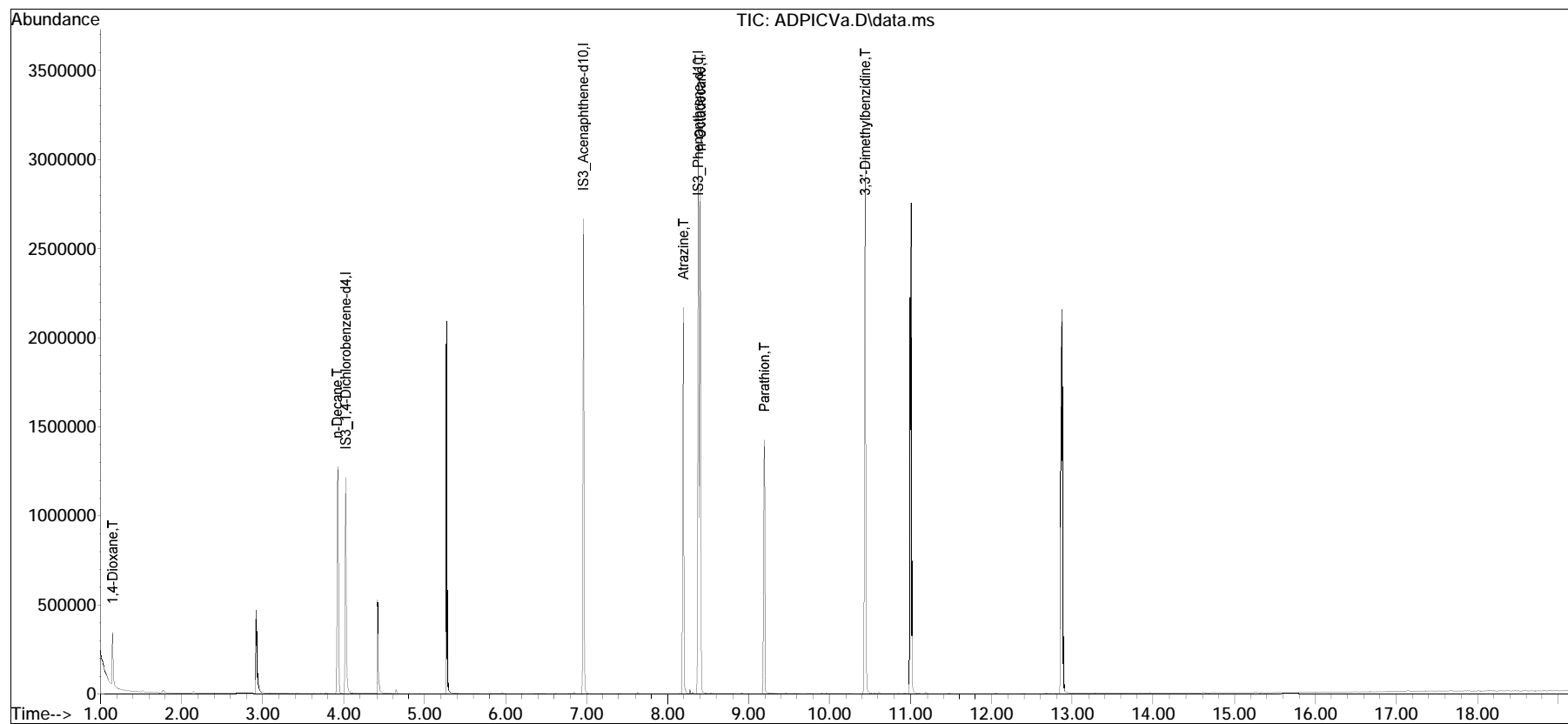
(#) = qualifier out of range (m) = manual integration (+) = signals summed

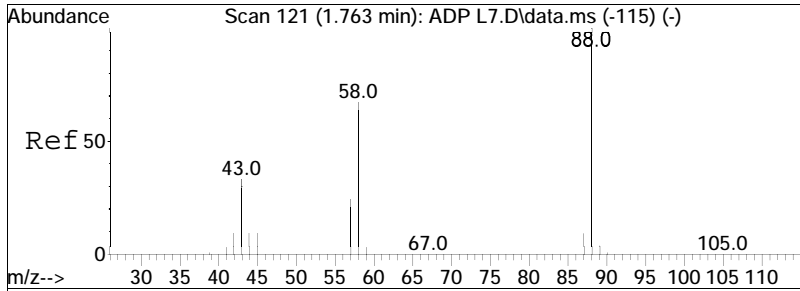
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230531lical\
Data File : ADPICVa.D
Acq On : 6 Jun 2023 7:53 pm
Operator : SV109:jg
Sample : CQICV3,32,,ADPICV Lot# 10064
Misc : WG1788374,,
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 07 12:56:13 2023
Quant Method : I:\8270\SV109\230531lical\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 07 12:55:49 2023
Response via : Initial Calibration

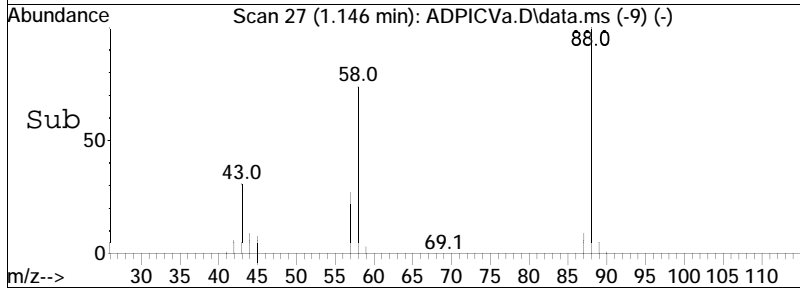
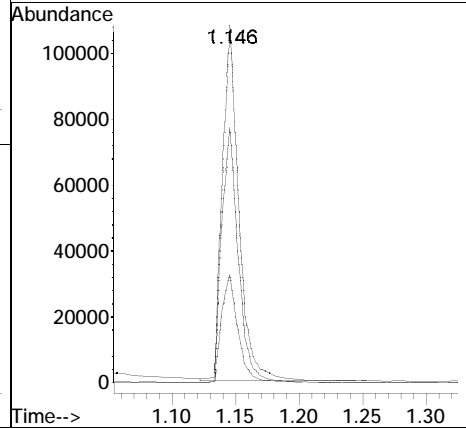
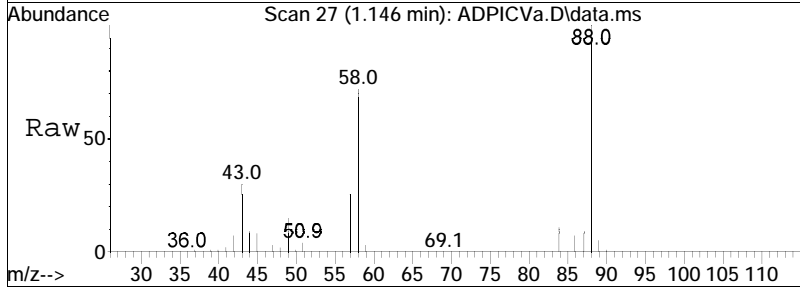
Sub List : ADPical_REV2 - ADP sublistal\ADPL7a.D•

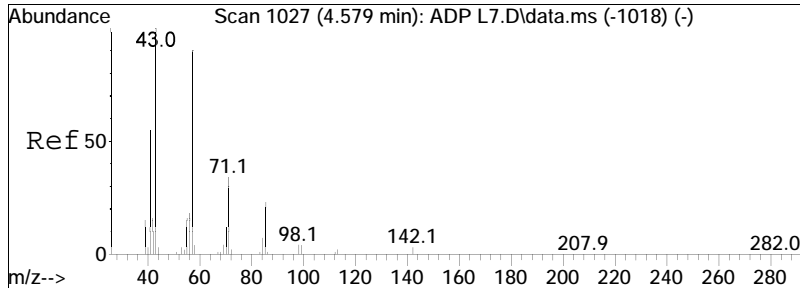




#33
 1,4-Dioxane
 Concen: 45.46 ug/ml
 RT: 1.146 min Scan# 27
 Delta R.T. -0.017 min
 Lab File: ADPICVa.D
 Acq: 6 Jun 2023 7:53 pm

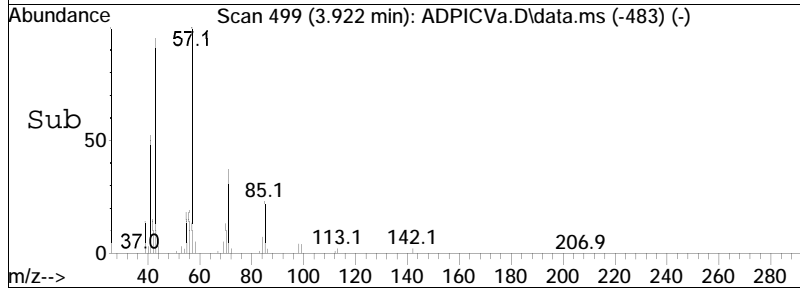
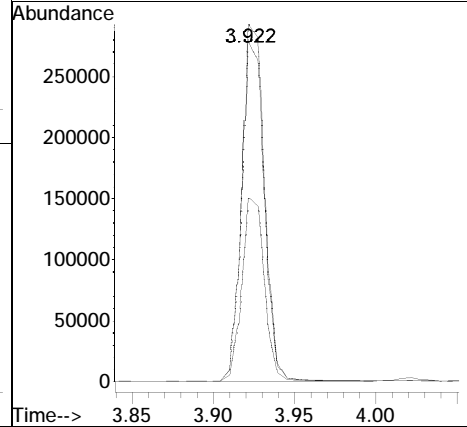
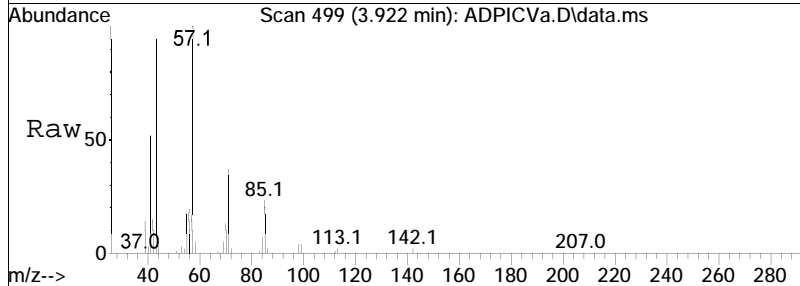
Tgt Ion	Ratio	Lower	Upper
88	100		
58	72.5	44.8	67.2#
43	31.5	22.4	33.6

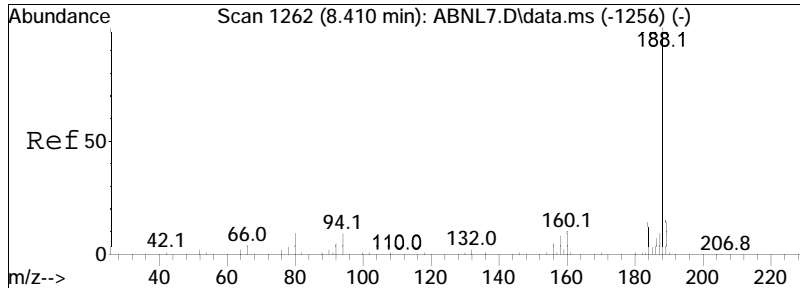




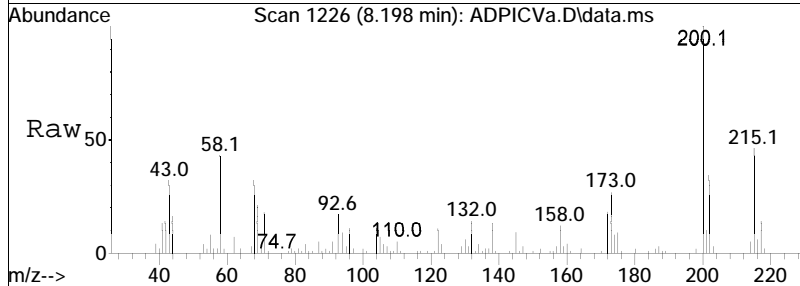
#34
 n-Decane
 Concen: 46.78 ug/ml
 RT: 3.922 min Scan# 499
 Delta R.T. -0.029 min
 Lab File: ADPICVa.D
 Acq: 6 Jun 2023 7:53 pm

Tgt Ion	Resp	Lower	Upper
57	100		
43	94.3	80.2	120.4
41	51.0	36.8	55.2

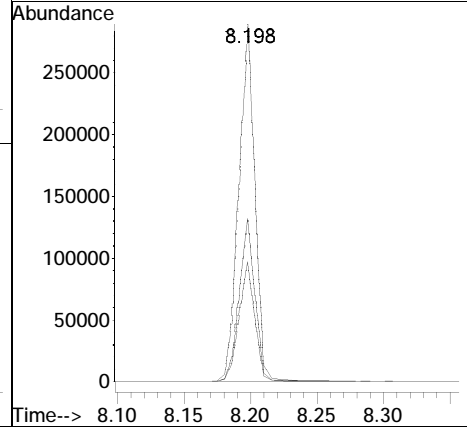
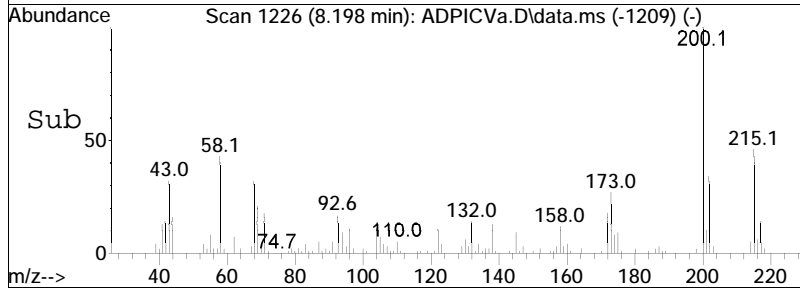


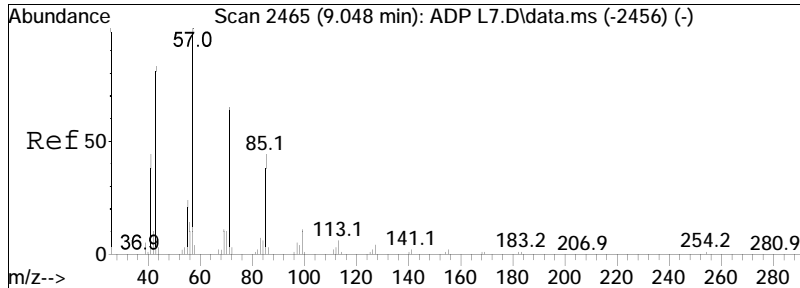


#87
 Atrazine
 Concen: 45.31 ug/ml
 RT: 8.198 min Scan# 1226
 Delta R.T. -0.024 min
 Lab File: ADPICVa.D
 Acq: 6 Jun 2023 7:53 pm



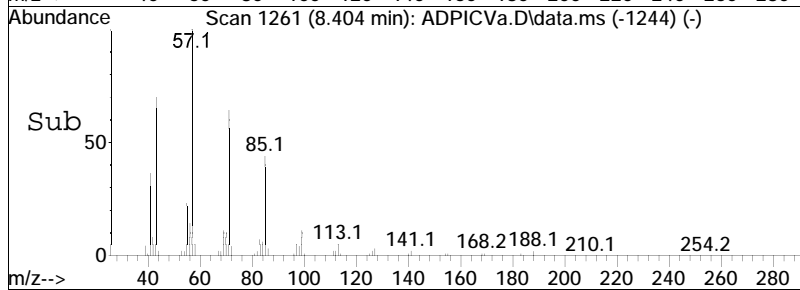
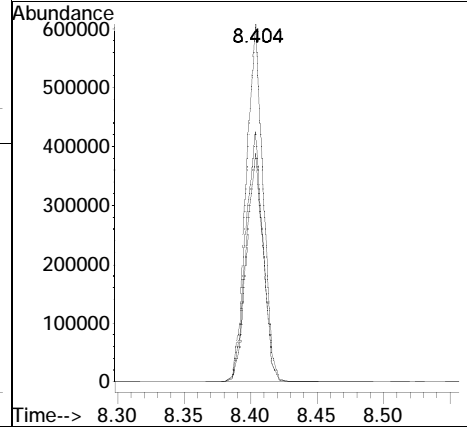
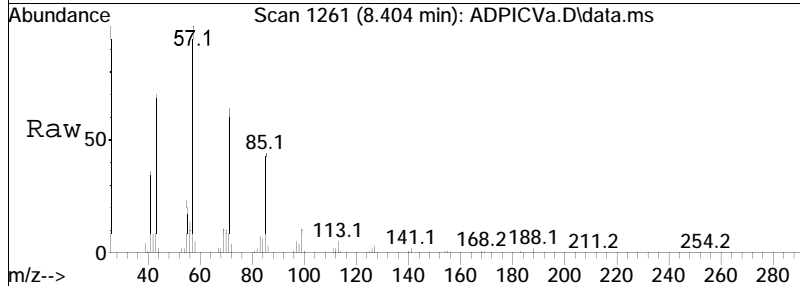
Tgt Ion	Resp	Lower	Upper
200	240080		
200	100		
202	33.1	26.1	39.1
215	45.0	36.2	54.2

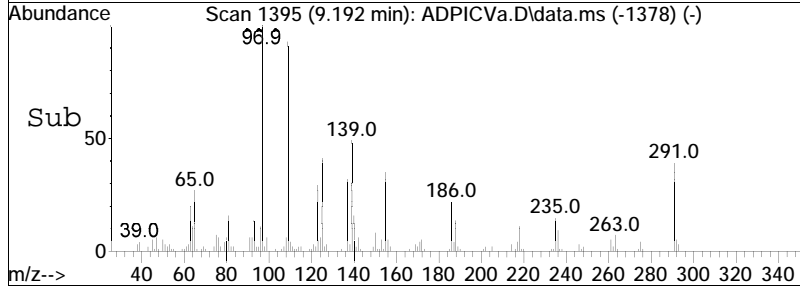
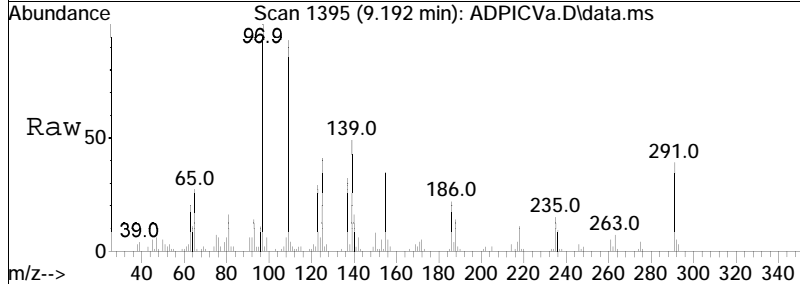
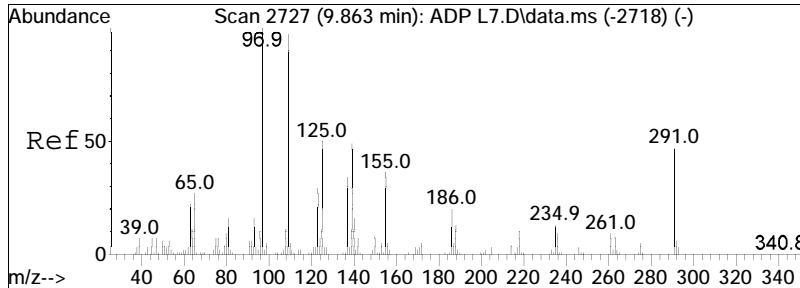




#101
 n-Octadecane
 Concen: 43.41 ug/ml
 RT: 8.404 min Scan# 1261
 Delta R.T. -0.024 min
 Lab File: ADPICVa.D
 Acq: 6 Jun 2023 7:53 pm

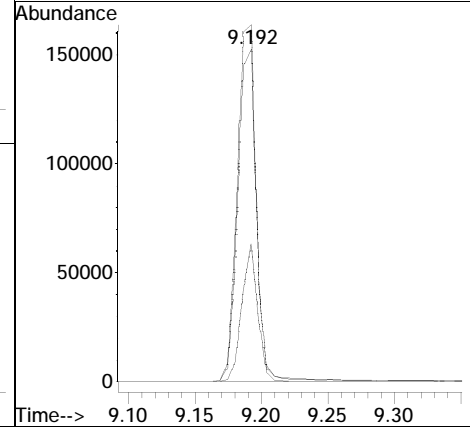
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
43	70.3	56.6	84.8
71	64.3	42.1	63.1#

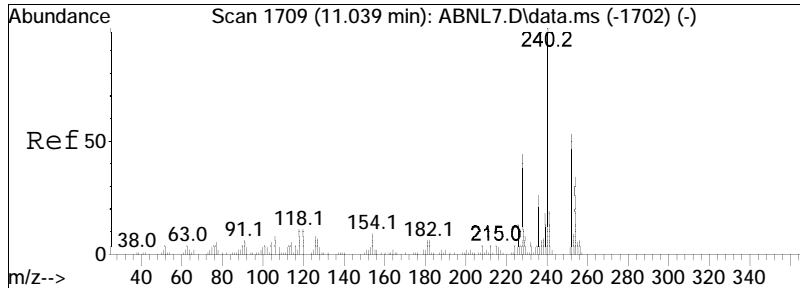




#102
 Parathion
 Concen: 43.29 ug/ml
 RT: 9.192 min Scan# 1395
 Delta R.T. -0.024 min
 Lab File: ADPICVa.D
 Acq: 6 Jun 2023 7:53 pm

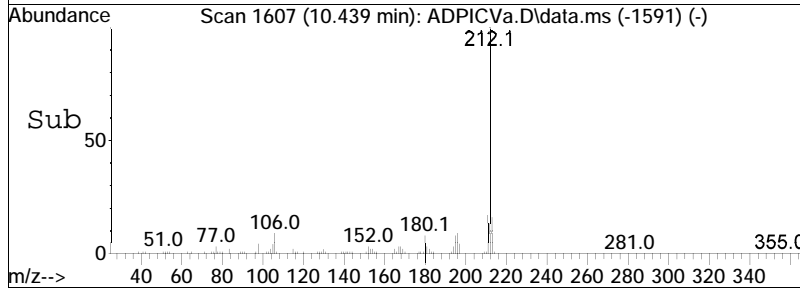
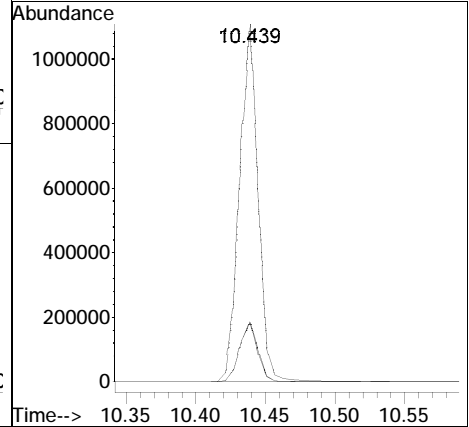
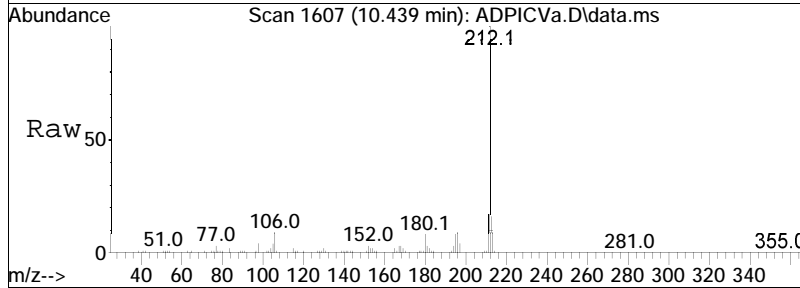
Tgt Ion	Resp	Lower	Upper
109	147845		
109	100		
97	107.6	82.5	123.7
291	35.1	30.7	46.1





#103
 3,3'-Dimethylbenzidine
 Concen: 46.98 ug/ml
 RT: 10.439 min Scan# 1607
 Delta R.T. -0.030 min
 Lab File: ADPICVa.D
 Acq: 6 Jun 2023 7:53 pm

Tgt Ion	Ratio	Lower	Upper
212	100		
211	16.9	13.5	20.3
213	16.3	12.9	19.3



Manual Integration Report

Data Path : I:\8270\SV109\230531ical\ QMethod : FS230531SV109.m
Data File : ADPICVa.D Operator : SV109:jg
Date Inj'd : 6/6/2023 7:53 pm Instrument : SV109
Sample : CQICV3,32,,ADPICV Lot# 100Quant Date : 6/7/2023 12:56 pm

There are no manual integrations or false positives in this file.

Method Path : I:\8270\SV109\230531ical\
 Method File : FS230531SV109.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Jun 07 14:45:05 2023

COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
37 T Benzoic Acid	L	ug/ml	50.0	48.969	-2.1	5.00	5.651	13.0
43 T Hexachlorocyclopentadiene	L	ug/ml	50.0	47.037	-5.9	10.00	11.456	14.6
66 T 2,4-Dinitrophenol	L	ug/ml	50.0	49.391	-1.2	5.00	5.218	4.4
76 T 4,6-Dinitro-o-cresol	L	ug/ml	50.0	49.423	-1.2	5.00	5.430	8.6
82 T Pentachlorophenol	Q	ug/ml	50.0	51.216	2.4	3.00	3.694	23.1

Calibration Correlation Report

COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
37 T Benzoic Acid	Linear	0.997524	0.000000	0.284537	-0.0201715
43 T Hexachlorocyclopentadiene	Linear	0.996459	0.000000	0.225321	-0.0387173
66 T 2,4-Dinitrophenol	Linear	0.994795	0.000000	0.193539	-0.0147785
76 T 4,6-Dinitro-o-cresol	Linear	0.998752	0.000000	0.239491	-0.0149404
82 T Pentachlorophenol	Quadratic	0.998881	0.012793	0.234619	-0.00778326

Response Factor Report Juliet

Method Path : I:\8270\Juliet\230720ical\
Method File : FS230721Juliet.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Jul 21 21:42:38 2023
Response Via : Initial Calibration

Calibration Files

1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =AP9L6.D 50 =AP9L7.D
100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
46) S 2-Fluorobiphenyl	0.999	0.871	0.871	0.846	0.837	0.834	0.822	0.813	0.781	0.732	0.841	8.27
47) T 2-Chloronaphthalene	0.833	0.734	0.730	0.722	0.692	0.698	0.692	0.680	0.668	0.648	0.710	7.21
48) T 2-Nitroaniline			0.231	0.228	0.236	0.237	0.244	0.240	0.233	0.236	0.236	2.21
49) T 1,4-Dinitrobenzene	0.112	0.089	0.098	0.097	0.104	0.109	0.111	0.115	0.116	0.114	0.106	8.57
50) T 1,3-Dinitrobenzene	0.130	0.122	0.123	0.118	0.122	0.119	0.123	0.122	0.121	0.118	0.122	2.81
51) T Dimethyl phthalate	1.012	0.900	0.892	0.879	0.872	0.857	0.837	0.840	0.820	0.797	0.871	6.80
52) T Acenaphthylene	1.409	1.219	1.195	1.200	1.177	1.162	1.131	1.098	1.044	0.976	1.161	9.97
53) T 2,6-Dinitrotoluene	0.202	0.180	0.176	0.178	0.180	0.179	0.182	0.179	0.173	0.181	0.181	4.31
54) T 1,2-Dinitrobenzene	0.090	0.081	0.074	0.072	0.074	0.074	0.070	0.071	0.069	0.068	0.074	8.80
55) I IS2_Naphthalene-d8	-----ISTD-----											
56) T a-Terpeneol	0.164	0.187	0.186	0.187	0.188	0.191	0.192	0.190	0.186	0.191	0.186	4.31
57) T 3-Chloroaniline	0.088	0.105	0.102	0.106	0.106	0.106	0.105	0.097	0.090	0.093	0.100	7.02
58) T 2,6-Dichlorophenol	0.263	0.282	0.275	0.289	0.291	0.300	0.297	0.285	0.274	0.281	0.284	3.99
59) T 1-chloro-2-nitrobenzene	0.121	0.132	0.126	0.131	0.132	0.131	0.130	0.128	0.126	0.132	0.129	2.75
60) T Caprolactam	0.124	0.104	0.111	0.108	0.109	0.108	0.108	0.107	0.102	0.107	0.109	5.28
61) T 1,2,4,5-Tetrachlorobenzene	0.372	0.363	0.360	0.373	0.362	0.377	0.368	0.367	0.354	0.361	0.366	1.92
62) T Biphenyl	0.843	0.860	0.841	0.851	0.846	0.841	0.814	0.777	0.742	0.735	0.815	5.73
63) I IS1_Acenaphthene-d10	-----ISTD-----											
64) T 3-Nitroaniline	0.371	0.337	0.350	0.347	0.353	0.349	0.359	0.349	0.349	0.337	0.350	2.81
65) T Acenaphthene	1.309	1.213	1.115	1.113	1.083	1.063	1.043	1.056	1.025	0.987	1.101	8.67
66) T 2,4-Dinitrophenol			0.089	0.121	0.162	0.186	0.201	0.210	0.205			*L 0.9991
67) T Dibenzofuran	1.971	1.776	1.737	1.756	1.690	1.680	1.670	1.670	1.608	1.509	1.707	7.07
68) T 2,4-Dinitrotoluene	0.469	0.412	0.429	0.425	0.424	0.414	0.418	0.412	0.401	0.389	0.419	5.03
69) T 4-Nitrophenol	0.199	0.155	0.193	0.214	0.219	0.223	0.226	0.238	0.238	0.225	0.213	11.74
70) T 2,3,5,6-Tetrachlorophenol	0.372	0.320	0.334	0.342	0.337	0.354	0.375	0.378	0.376	0.371	0.356	6.00
71) T 2,3,4,6-Tetrachlorophenol	0.434	0.363	0.359	0.374	0.351	0.372	0.368	0.378	0.371	0.356	0.373	6.18
72) T Diethyl phthalate	1.697	1.459	1.456	1.478	1.419	1.395	1.406	1.382	1.331	1.256	1.428	8.07
73) T Fluorene	1.640	1.407	1.387	1.403	1.368	1.380	1.367	1.343	1.303	1.231	1.383	7.58
74) T 4-Chlorophenyl-phenylether	0.797	0.667	0.680	0.678	0.662	0.676	0.670	0.646	0.627	0.596	0.670	7.76
75) T 4-Nitroaniline	0.335	0.305	0.330	0.346	0.342	0.341	0.332	0.328	0.317	0.303	0.328	4.58
76) T 4,6-Dinitro-o-cresol			0.218	0.227	0.246	0.262	0.266	0.265	0.257	0.249		7.78
77) T NDPA/DPA	1.419	1.222	1.223	1.212	1.186	1.174	1.138	1.112	1.064	1.016	1.177	9.34
78) T Azobenzene	1.230	1.119	1.100	1.135	1.084	1.070	1.051	1.005	0.965	0.875	1.063	9.23
79) S 2,4,6-Tribromophenol	0.243	0.231	0.224	0.234	0.227	0.223	0.231	0.227	0.227	0.227	0.230	2.52
80) T 4-Bromophenyl-phenylether	0.481	0.420	0.442	0.437	0.425	0.431	0.439	0.435	0.438	0.430	0.438	3.80
81) T Hexachlorobenzene	0.588	0.540	0.521	0.522	0.497	0.489	0.489	0.490	0.481	0.467	0.508	6.99
82) T Pentachlorophenol			0.165	0.205	0.216	0.243	0.276	0.290	0.291	0.290		*L 0.9993
83) I IS2_Acenaphthene-d10	-----ISTD-----											
84) T Dichloran	0.179	0.188	0.188	0.195	0.206	0.213	0.225	0.232	0.224	0.238	0.209	9.90
85) T Pentachloronitrobenzene	0.187	0.190	0.182	0.181	0.192	0.194	0.199	0.195	0.187	0.196	0.190	3.16
86) I IS3_Acenaphthene-d10	-----ISTD-----											
87) T Atrazine		0.347	0.429	0.436	0.429	0.445	0.450	0.457	0.455	0.423	0.430	7.75
88) I IS1_Phenanthrene-d10	-----ISTD-----											
89) T Phenanthrene	1.226	1.054	1.019	1.021	1.003	0.987	0.947	0.930	0.901	0.868	0.996	10.04
90) T Anthracene	1.235	1.043	1.006	1.034	1.018	0.999	0.950	0.931	0.909	0.854	0.998	10.33

Response Factor Report Juliet

Method Path : I:\8270\Juliet\230720ical\
 Method File : FS230721Juliet.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Fri Jul 21 21:42:38 2023
 Response Via : Initial Calibration

Calibration Files

1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =AP9L6.D 50 =AP9L7.D
 100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
91) T Carbazole	1.159	0.967	0.960	1.005	0.989	0.956	0.912	0.900	0.888	0.852	0.959	8.88
92) T Di-n-butylphthalate	1.386	1.137	1.142	1.164	1.181	1.171	1.145	1.143	1.126	1.069	1.167	7.12
93) T Fluoranthene	1.582	1.346	1.278	1.321	1.276	1.281	1.254	1.237	1.222	1.158	1.296	8.73
94) T Benzidine	0.977	0.824	0.837	0.883	0.873	0.881	0.812	0.836	0.832	0.790	0.855	6.13
95) T Pyrene	1.722	1.429	1.385	1.402	1.368	1.330	1.254	1.214	1.166	1.086	1.335	13.18
96) S 4-Terphenyl-d14	1.205	1.019	0.989	1.007	0.990	0.947	0.919	0.904	0.900	0.864	0.974	9.87
97) T Butyl benzyl phthalate	0.638	0.551	0.542	0.563	0.575	0.578	0.580	0.589	0.602	0.580	0.580	4.62
98) I IS2_Phenanthrene-d10	-----ISTD-----											
99) T Diphenamid	0.485	0.476	0.459	0.479	0.492	0.494	0.503	0.510	0.499	0.524	0.492	3.76
100) I IS3_Phenanthrene-d10	-----ISTD-----											
101) T n-Octadecane	0.283	0.214	0.272	0.269	0.263	0.277	0.273	0.276	0.266	0.275	0.267	7.23
102) T Parathion				0.095	0.104	0.115	0.124	0.130	0.138	0.135	*L	0.9990
103) T 3,3'-Dimethylbenzidine			0.709	0.790	0.826	0.910	0.940	0.949	0.950	0.869	0.868	10.06
104) I IS1_Chrysene-d12	-----ISTD-----											
105) T Benzo[a]anthracene	1.705	1.409	1.328	1.330	1.298	1.310	1.299	1.295	1.270	1.242	1.349	9.85
106) T 3,3'-Dichlorobenzidine	0.588	0.514	0.516	0.513	0.523	0.523	0.532	0.538	0.521	0.506	0.528	4.42
107) T Chrysene	1.466	1.210	1.189	1.165	1.137	1.091	1.053	1.013	0.974	0.951	1.125	13.30
108) T bis(2-Ethylhexyl)phthalate	0.835	0.737	0.723	0.728	0.752	0.743	0.759	0.751	0.739	0.733	0.750	4.23
109) T Di-n-octylphthalate	1.461	1.275	1.271	1.316	1.355	1.418	1.500	1.508	1.488	1.468	1.406	6.65
110) T Benzo(b)fluoranthene	1.647	1.372	1.331	1.399	1.355	1.348	1.399	1.378	1.419	1.368	1.402	6.44
111) T Benzo(k)fluoranthene	1.568	1.371	1.303	1.294	1.313	1.326	1.189	1.186	1.057	1.050	1.265	12.14
112) T Benzo(a)pyrene	1.429	1.197	1.171	1.207	1.189	1.196	1.195	1.194	1.165	1.146	1.209	6.58
113) I IS1_Perylene-d12	-----ISTD-----											
114) T Indeno(1,2,3-cd)pyrene	1.154	0.952	0.958	0.994	1.017	1.047	1.070	1.106	1.128	1.166	1.059	7.41
115) T Dibenzo[a,h]anthracene	1.245	1.070	1.011	1.069	1.070	1.080	1.091	1.086	1.048	1.044	1.082	5.75
116) T Benzo(g,h,i)perylene	1.274	1.115	1.062	1.114	1.107	1.106	1.097	1.097	1.065	1.056	1.109	5.59

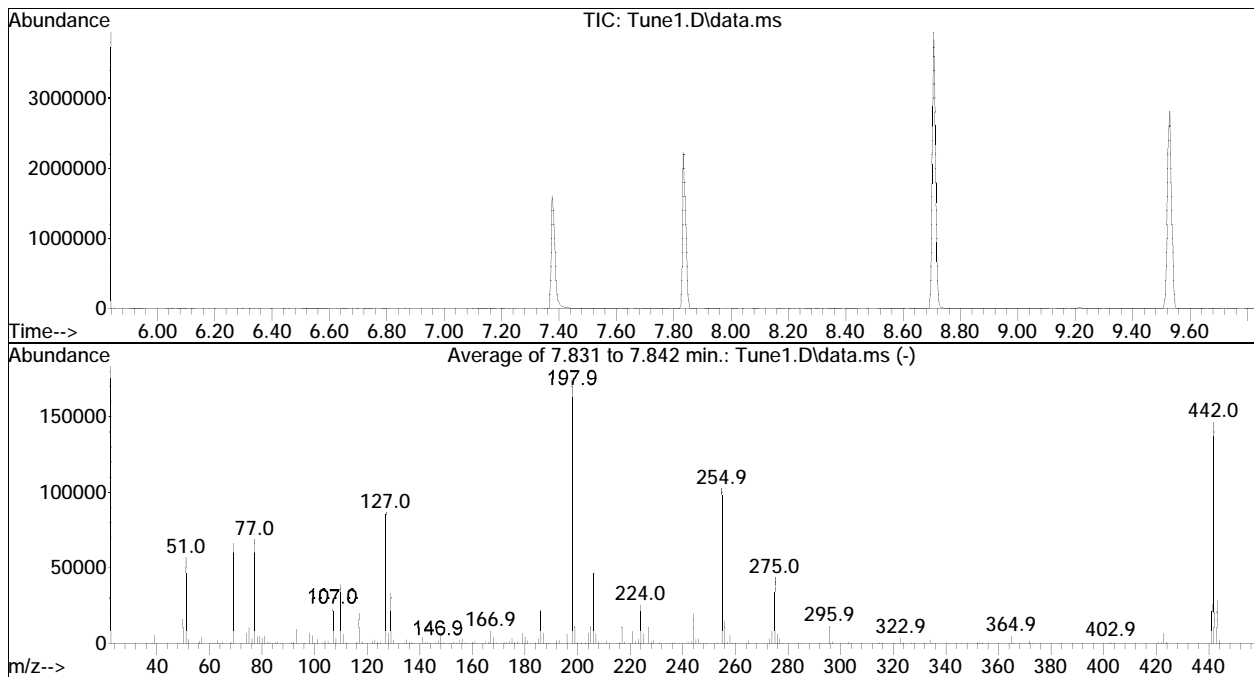
(#) = Out of Range

DFTPP

Data Path : I:\8270\Juliet\230720ical\
 Data File : Tune1.D
 Acq On : 20 Jul 2023 10:57 pm
 Operator : JULIET: jg
 Sample : Tune 1
 Misc : WG1806439,,
 ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Fri Jul 21 21:42:38 2023

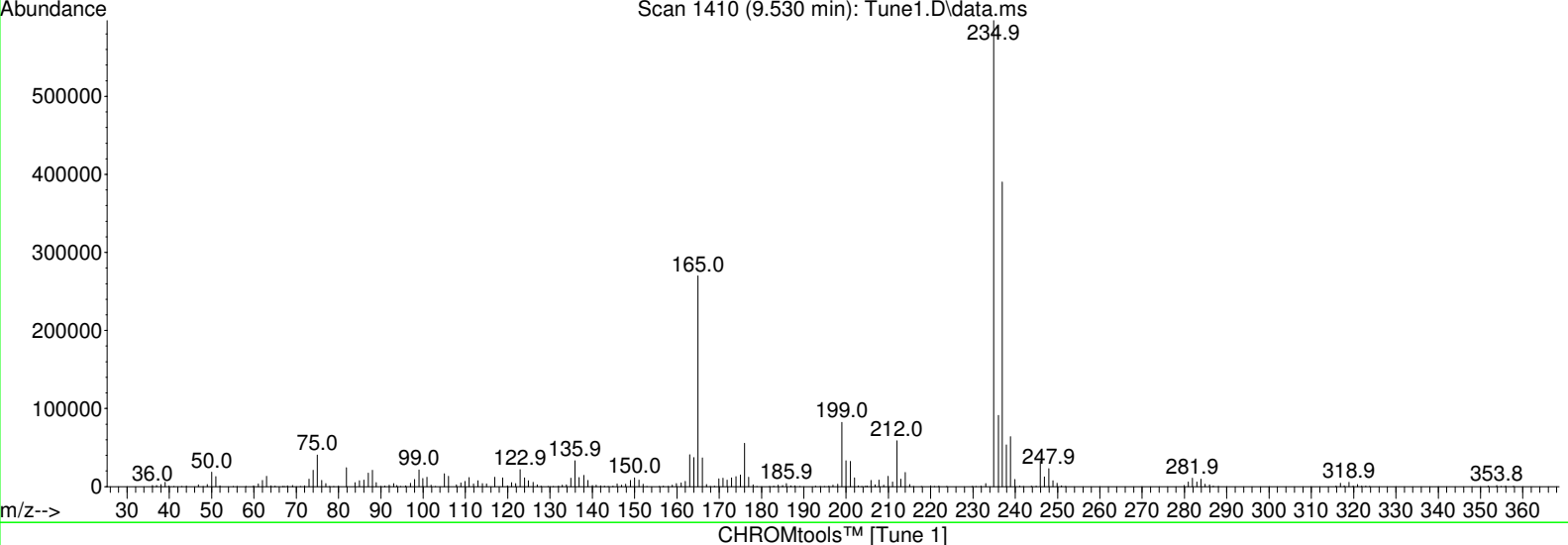
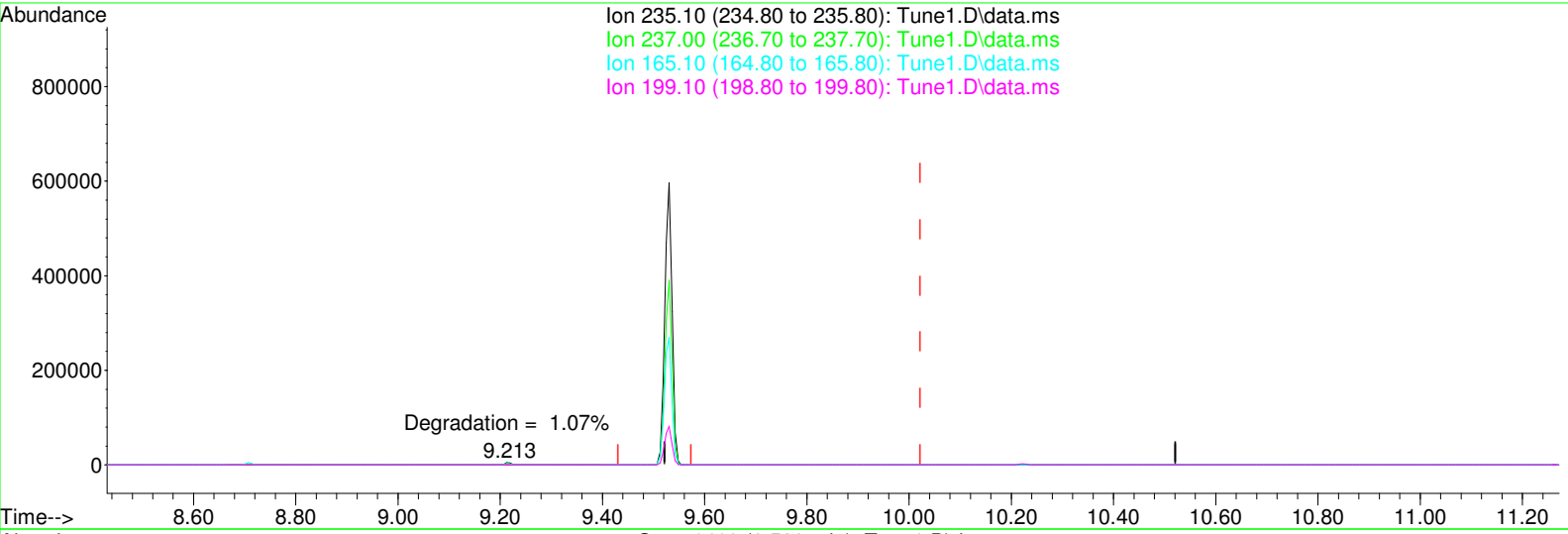


Spectrum Information: Average of 7.831 to 7.842 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	32.5	56739	PASS
68	69	0.00	2	1.5	963	PASS
69	69	100	100	100.0	65787	PASS
70	69	0.00	2	0.5	322	PASS
127	198	10	80	49.5	86341	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	174592	PASS
199	198	5	9	6.5	11401	PASS
275	198	10	60	24.9	43425	PASS
365	198	1	100	2.7	4641	PASS
441	442	0.01	24	17.8	25979	PASS
442	198	50	100	83.8	146301	PASS
443	442	15	24	19.4	28361	PASS

Data Path : I:\8270\Juliet\230720ical\
 Data File : Tune1.D
 Acq On : 20 Jul 2023 10:57 pm
 Operator : JULIET: jg
 Sample : Tune 1
 Misc : WG1806439,,
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jul 21 09:54:30 2023
 Quant Method : I:\8270\Juliet\230720ical\DftppJuliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 14 10:15:26 2023
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(6) DDT (T)

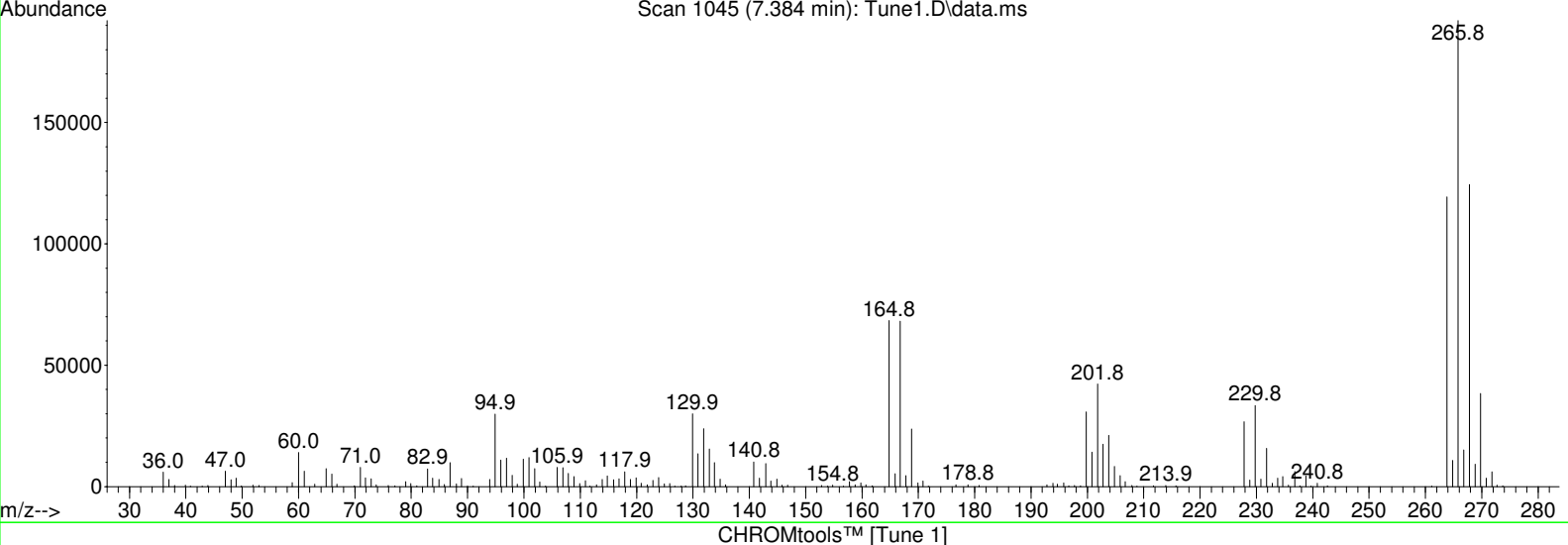
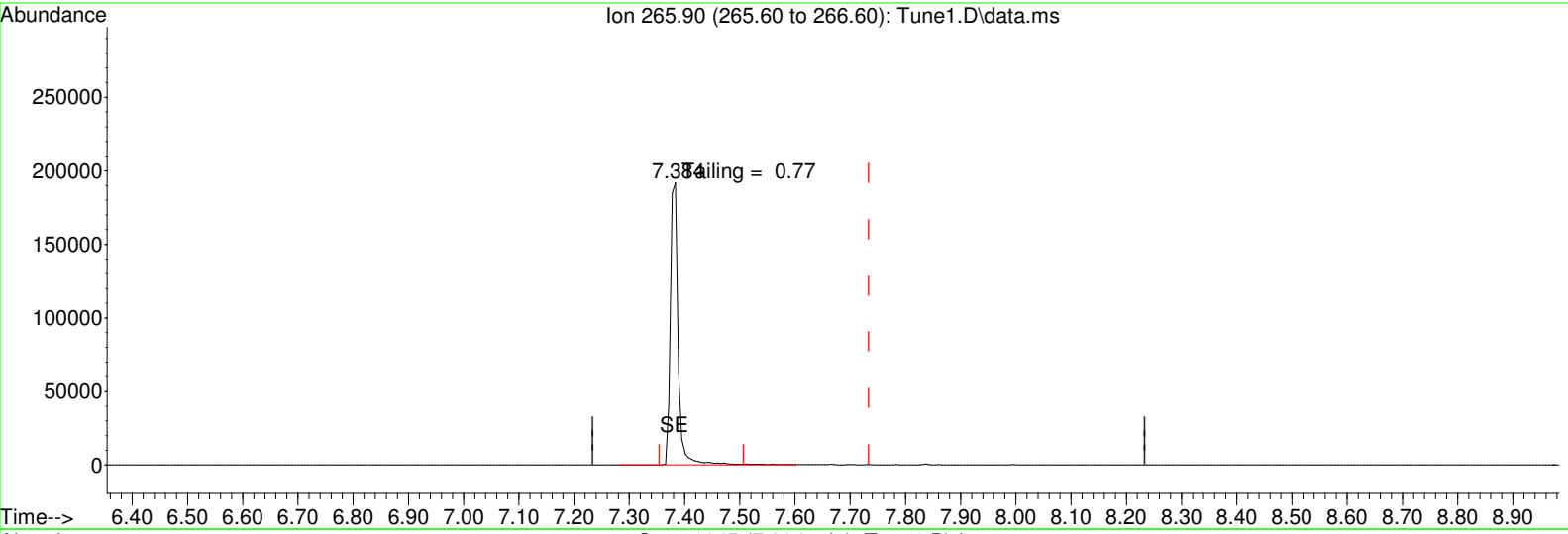
9.530min (-0.491) 96.87 M2

response 590522

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.90	0.00#
165.10	48.90	0.00#
199.10	15.00	0.00#

Data Path : I:\8270\Juliet\230720ical\
 Data File : Tune1.D
 Acq On : 20 Jul 2023 10:57 pm
 Operator : JULIET: jg
 Sample : Tune 1
 Misc : WG1806439,,
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jul 21 09:54:30 2023
 Quant Method : I:\8270\Juliet\230720ical\DftppJuliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 14 10:15:26 2023
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(1) Pentachlorophenol (T)

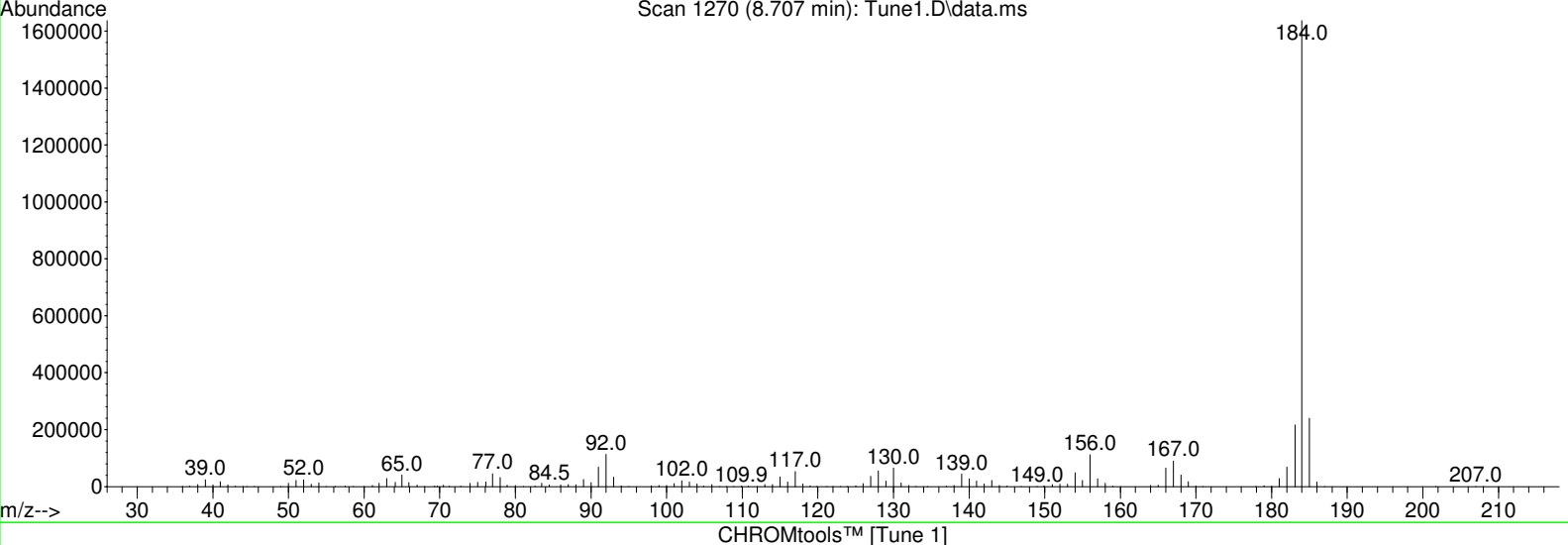
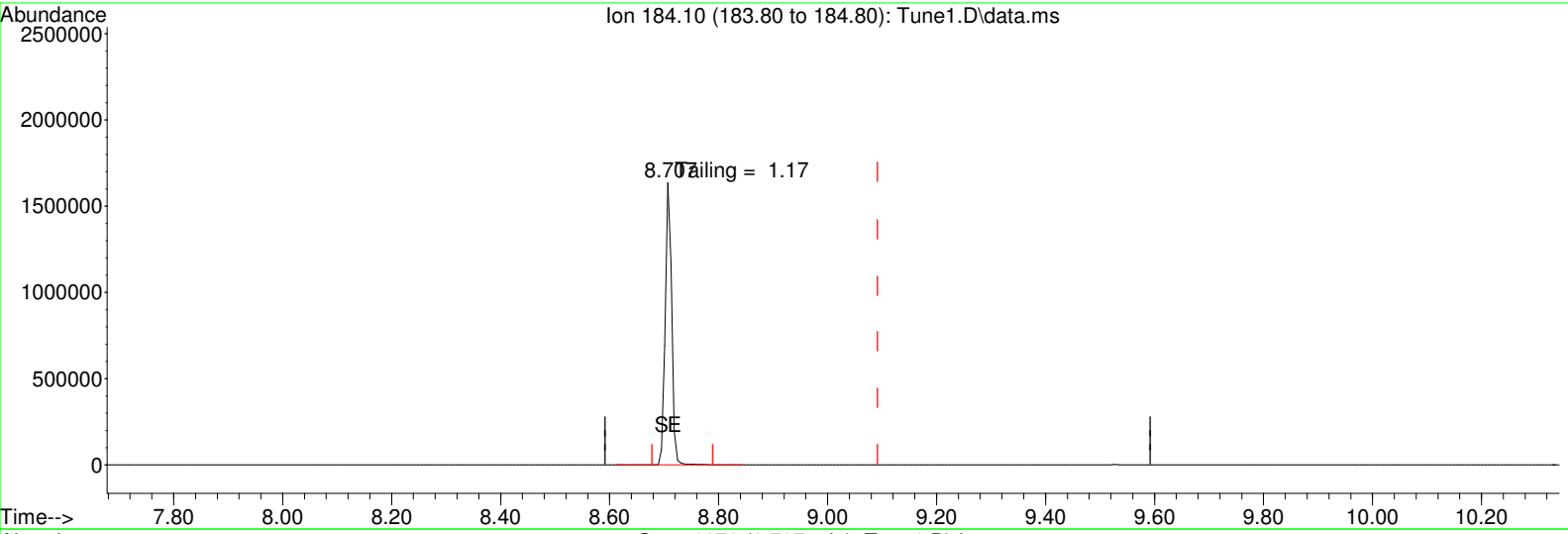
7.384min (-0.350) 90.14

response 189333

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\8270\Juliet\230720ical\
 Data File : Tune1.D
 Acq On : 20 Jul 2023 10:57 pm
 Operator : JULIET: jg
 Sample : Tune 1
 Misc : WG1806439,,
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jul 21 09:54:30 2023
 Quant Method : I:\8270\Juliet\230720ical\DftppJuliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 14 10:15:26 2023
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(3) Benzidine (T)

8.707min (-0.385) 133.87

response 1362822

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL10.D
 Acq On : 20 Jul 2023 11:20 pm
 Operator : JULIET: jg
 Sample : IL1,32,,ABNL200 Lot# 10127
 Misc : WG1806439,,
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 12:33:11 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.637	152	214560	40.000	ug/ml	# 0.00
Standard Area 1 = 239757			Recovery =	89.49%		
35) IS1_Naphthalene-d8	4.731	136	769713	40.000	ug/ml	0.00
Standard Area 1 = 875703			Recovery =	87.90%		
63) IS1_Acenaphthene-d10	6.248	164	469702	40.000	ug/ml	0.00
Standard Area 1 = 526173			Recovery =	89.27%		
88) IS1_Phenanthrene-d10	7.525	188	1006838	40.000	ug/ml	0.00
Standard Area 1 = 1184116			Recovery =	85.03%		
104) IS1_Chrysene-d12	10.066	240	1013648	40.000	ug/ml	# 0.01
Standard Area 1 = 1226984			Recovery =	82.61%		
113) IS1_Perylene-d12	12.119	264	1130334	40.000	ug/ml	0.01
Standard Area 1 = 1421285			Recovery =	79.53%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.554	112	1179581	215.965	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	431.93%#		
7) Phenol-d6	3.378	99	1412469	199.490	ug/ml	0.01
Spiked Amount 50.000	Range 15 - 110		Recovery =	398.98%#		
19) Nitrobenzene-d5	4.119	82	1183633	188.602	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	754.41%#		
46) 2-Fluorobiphenyl	5.684	172	2818877	172.100	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	688.40%#		
79) 2,4,6-Tribromophenol	6.937	330	532950	194.202	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	388.40%#		
96) 4-Terphenyl-d14	8.936	244	4350117	173.531	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	694.12%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.519	74	717904	213.214	ug/ml#	86
3) Pyridine	1.543	79	1254450	201.365	ug/ml#	78
5) Aniline	3.366	93	1814316	195.111	ug/ml#	79
6) 2-Chlorophenol	3.466	128	1288932	191.113	ug/ml	95
8) Phenol	3.390	94	1536574	195.547	ug/ml#	31
9) Bis(2-chloroethyl)ether	3.437	93	946851	179.305	ug/ml	91
10) 1,3-Dichlorobenzene	3.584	146	1444874	185.961	ug/ml	98
11) 1,4-Dichlorobenzene	3.649	146	1433518	181.911	ug/ml	99
12) 1,2-Dichlorobenzene	3.778	146	1422997	187.596	ug/ml	98
13) Benzyl alcohol	3.778	79	965391	195.303	ug/ml	96
14) Bis(2-chloroisopropyl)...	3.896	45	1151013	182.388	ug/ml#	72

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL10.D
 Acq On : 20 Jul 2023 11:20 pm
 Operator : JULIET: jg
 Sample : IL1,32,,ABNL200 Lot# 10127
 Misc : WG1806439,,
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 12:33:11 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	3.896	108	1079903	189.562	ug/ml	98
16) Hexachloroethane	4.060	117	498736	184.569	ug/ml#	81
17) n-Nitrosodi-n-propylamine	4.019	70	785257	194.726	ug/ml	97
18) 3-Methylphenol/4-Methy...	4.037	108	1134314	195.074	ug/ml	99
20) Nitrobenzene	4.137	77	1107156	183.860	ug/ml	98
21) Isophorone	4.354	82	2206198	187.214	ug/ml	97
22) 2-Nitrophenol	4.413	139	742679	200.104	ug/ml	95
23) 2,4-Dimethylphenol	4.490	107	1228750	187.727	ug/ml	98
24) Bis(2-chloroethoxy)met...	4.554	93	1236176	180.859	ug/ml	99
25) 2,4-Dichlorophenol	4.631	162	1221305	193.274	ug/ml	96
26) 1,2,4-Trichlorobenzene	4.690	180	1280892	181.861	ug/ml	99
36) Naphthalene	4.748	128	3376552	174.977	ug/ml	98
37) Benzoic Acid	4.678	105	956919	200.000	ug/ml	98
38) 4-Chloroaniline	4.813	65	388715	196.425	ug/ml	85
39) Hexachlorobutadiene	4.872	225	767553	190.391	ug/ml	99
40) p-Chloro-m-cresol	5.266	107	1146769	203.349	ug/ml	95
41) 2-Methylnaphthalene	5.348	142	2502151	191.967	ug/ml	98
42) 1-Methylnaphthalene	5.431	115	808357	190.471	ug/ml	84
43) Hexachlorocyclopentadiene	5.495	237	854869	200.000	ug/ml	100
44) 2,4,6-Trichlorophenol	5.613	196	960464	199.804	ug/ml	99
45) 2,4,5-Trichlorophenol	5.643	196	1015146	197.466	ug/ml	98
47) 2-Chloronaphthalene	5.772	162	2495337	178.947	ug/ml	98
48) 2-Nitroaniline	5.878	138	898451	198.505	ug/ml	92
49) 1,4-Dinitrobenzene	6.013	168	438436	200.842	ug/ml	91
50) 1,3-Dinitrobenzene	6.084	168	452483	198.233	ug/ml	80
51) Dimethyl phthalate	6.066	163	3067207	180.710	ug/ml	99
52) Acenaphthylene	6.125	152	3755654	166.535	ug/ml	96
53) 2,6-Dinitrotoluene	6.107	165	664240	187.092	ug/ml#	70
54) 1,2-Dinitrobenzene	6.154	168	263136	179.296	ug/ml#	26
64) 3-Nitroaniline	6.248	138	791090	197.539	ug/ml	94
65) Acenaphthene	6.278	154	2317751	177.323	ug/ml	99
66) 2,4-Dinitrophenol	6.342	184	482276	200.000	ug/ml	94
67) Dibenzofuran	6.431	168	3543877	175.789	ug/ml	98
68) 2,4-Dinitrotoluene	6.460	165	913391	197.258	ug/ml#	79
69) 4-Nitrophenol	6.431	65	529164	199.952	ug/ml#	86
70) 2,3,5,6-Tetrachlorophenol	6.513	232	871718	199.241	ug/ml	100
71) 2,3,4,6-Tetrachlorophenol	6.554	232	837075	184.608	ug/ml	98
72) Diethyl phthalate	6.672	149	2949873	172.903	ug/ml	97
73) Fluorene	6.725	166	2890361	174.242	ug/ml	98
74) 4-Chlorophenyl phenyl ...	6.737	204	1400479	173.361	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL10.D
 Acq On : 20 Jul 2023 11:20 pm
 Operator : JULIET: jg
 Sample : IL1,32,,ABNL200 Lot# 10127
 Misc : WG1806439,,
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 12:33:11 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	6.784	138	712231	187.518	ug/ml#	81
76) 4,6-Dinitro-o-cresol	6.819	198	602934	198.806	ug/ml	89
77) NDPA/DPA	6.854	169	2384951	170.559	ug/ml	98
78) Azobenzene	6.878	77	2054574M6	166.341	ug/ml	
80) 4-Bromophenyl phenyl e...	7.160	248	1010223	191.124	ug/ml	97
81) Hexachlorobenzene	7.207	284	1096435	181.380	ug/ml	98
82) Pentachlorophenol	7.384	266	682148	201.740	ug/ml	98
89) Phenanthrene	7.548	178	4367543	171.207	ug/ml	97
90) Anthracene	7.595	178	4298414	168.556	ug/ml	96
91) Carbazole	7.748	167	4288415	174.867	ug/ml	97
92) Di-n-butylphthalate	8.084	149	5381350	178.126	ug/ml#	97
93) Fluoranthene	8.578	202	5831933	174.012	ug/ml#	94
94) Benzidine	8.719	184	3978607	183.889	ug/ml#	95
95) Pyrene	8.772	202	5465564	160.403	ug/ml	96
97) Butyl benzyl phthalate	9.460	149	2919592	193.594	ug/ml	97
105) Benzo(a)anthracene	10.048	228	6292360	175.436	ug/ml	96
106) 3,3'-Dichlorobenzidine	10.060	252	2563687	186.647	ug/ml	97
107) Chrysene	10.107	228	4819925	164.437	ug/ml	96
108) Bis(2-ethylhexyl)phtha...	10.201	149	3714094	189.003	ug/ml	98
109) Di-n-octylphthalate	11.148	149	7439201	198.880	ug/ml	99
110) Benzo(b)fluoranthene	11.566	252	6933085	185.937	ug/ml	96
111) Benzo(k)fluoranthene	11.613	252	5321971M4	165.515	ug/ml	
112) Benzo(a)pyrene	12.048	252	5810094	182.415	ug/ml	96
114) Indeno(1,2,3-cd)pyrene	13.807	276	6590358	206.354	ug/mL	96
115) Dibenzo(a,h)anthracene	13.871	278	5901239	185.306	ug/ml	96
116) Benzo(ghi)perylene	14.213	276	5966365	184.842	ug/ml	95

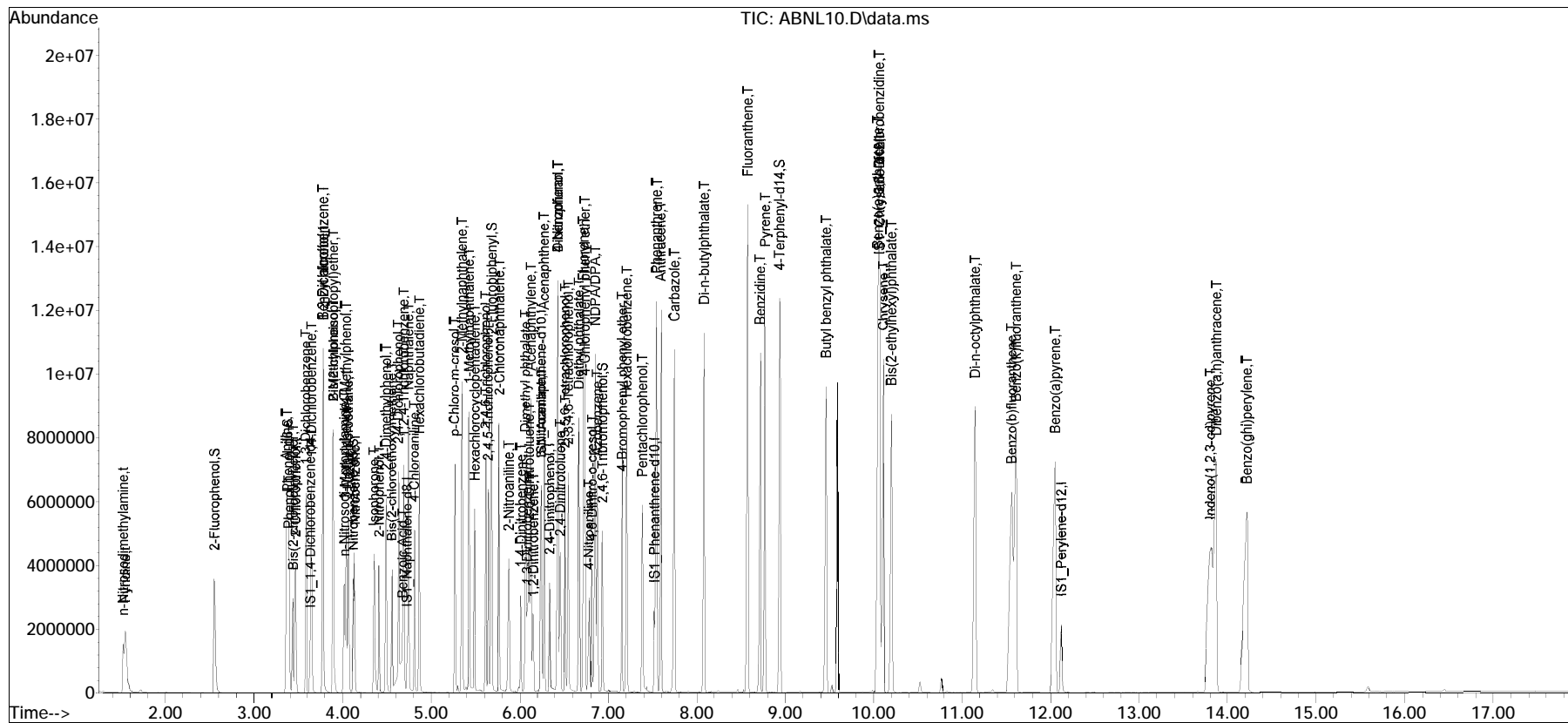
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL10.D
 Acq On : 20 Jul 2023 11:20 pm
 Operator : JULIET: jg
 Sample : IL1,32,,ABNL200 Lot# 10127
 Misc : WG1806439,,
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 12:33:11 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

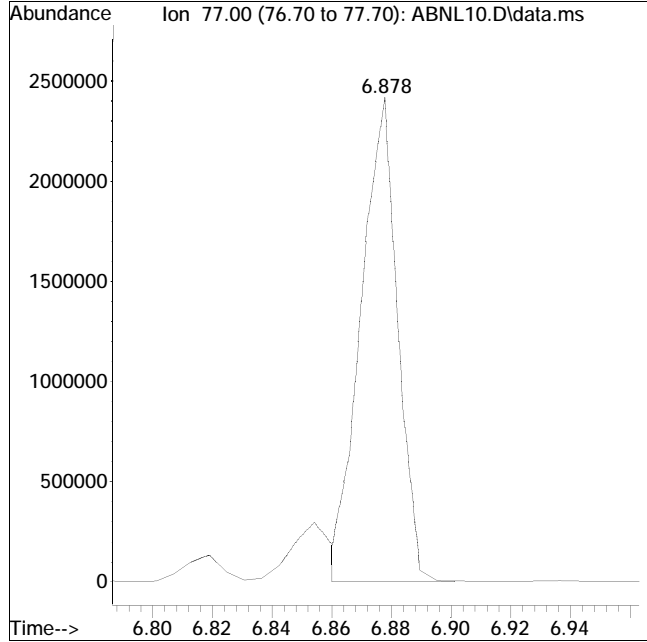
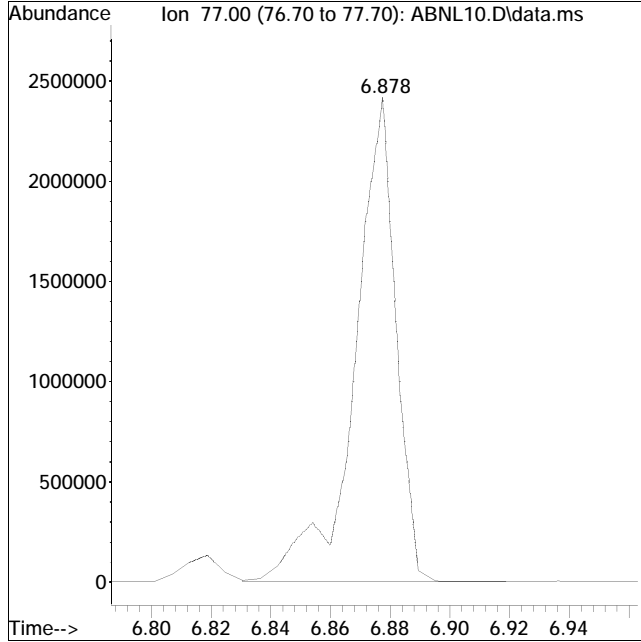
Sub List : ABNical - ABN ical sublistcal\ABNL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ABNL10.D Operator : JULIET: jg
Date Inj'd : 7/20/2023 11:20 pm Instrument : Juliet
Sample : IL1,32,,ABNL200 Lot# 10127 Quant Date : 7/21/2023 12:33 pm

Compound #78: Azobenzene



Original Peak Response = 2326762

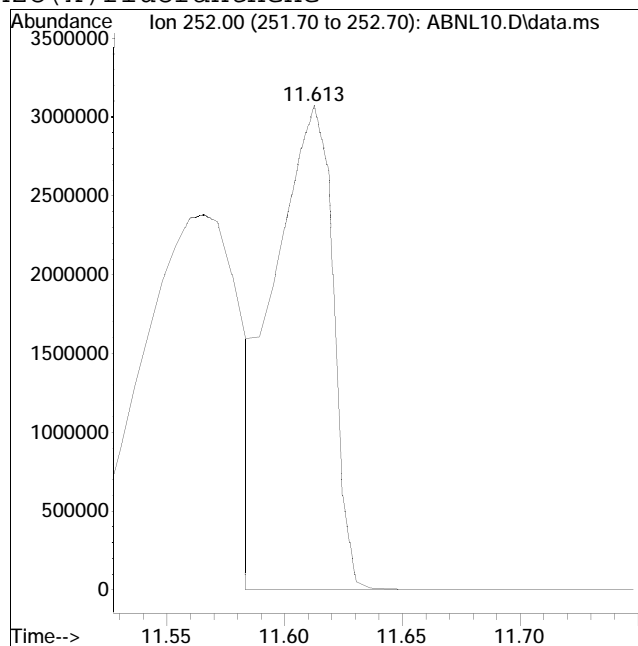
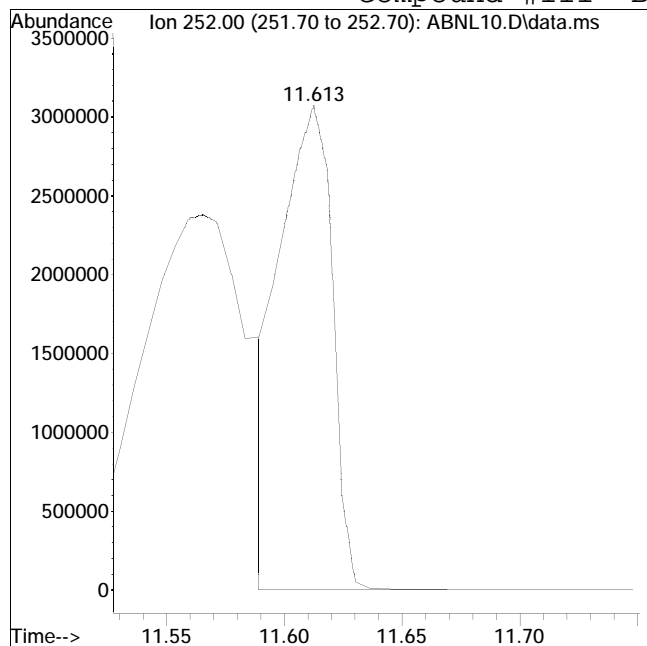
Manual Peak Response = 2054574 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ABNL10.D Operator : JULIET: jg
Date Inj'd : 7/20/2023 11:20 pm Instrument : Juliet
Sample : IL1,32,,ABNL200 Lot# 10127Quant Date : 7/21/2023 12:33 pm

Compound #111: Benzo(k)fluoranthene



Original Peak Response = 4756539

Manual Peak Response = 5321971 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL9.D
 Acq On : 20 Jul 2023 11:44 pm
 Operator : JULIET: jg
 Sample : IL2,32,,ABNL150 Lot# 10131
 Misc : WG1806439,,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 21 20:43:32 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.637	152	190316	40.000	ug/ml	# 0.00
Standard Area 1 = 239757			Recovery =	79.38%		
35) IS1_Naphthalene-d8	4.725	136	705122	40.000	ug/ml	0.00
Standard Area 1 = 875703			Recovery =	80.52%		
63) IS1_Acenaphthene-d10	6.242	164	428505	40.000	ug/ml	0.00
Standard Area 1 = 526173			Recovery =	81.44%		
88) IS1_Phenanthrene-d10	7.525	188	948660	40.000	ug/ml	0.00
Standard Area 1 = 1184116			Recovery =	80.12%		
104) IS1_Chrysene-d12	10.060	240	997151	40.000	ug/ml	# 0.00
Standard Area 1 = 1226984			Recovery =	81.27%		
113) IS1_Perylene-d12	12.113	264	1124548	40.000	ug/ml	0.00
Standard Area 1 = 1421285			Recovery =	79.12%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.554	112	804675	166.093	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	332.19%#		
7) Phenol-d6	3.372	99	988346	157.371	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	314.74%#		
19) Nitrobenzene-d5	4.119	82	810163	145.538	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	582.15%#		
46) 2-Fluorobiphenyl	5.678	172	2064799	137.609	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	550.44%#		
79) 2,4,6-Tribromophenol	6.937	330	365067	145.816	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	291.63%#		
96) 4-Terphenyl-d14	8.936	244	3200388	135.497	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	541.99%#		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	1.519	74	478598	160.249	ug/ml#	83
3) Pyridine	1.543	79	827095	149.679	ug/ml#	79
5) Aniline	3.360	93	1251379	151.716	ug/ml	96
6) 2-Chlorophenol	3.460	128	895317	149.662	ug/ml	94
8) Phenol	3.384	94	1078589	154.749	ug/ml#	32
9) Bis(2-chloroethyl)ether	3.431	93	662679	141.477	ug/ml	93
10) 1,3-Dichlorobenzene	3.584	146	987095	143.227	ug/ml	98
11) 1,4-Dichlorobenzene	3.649	146	983002	140.632	ug/ml	98
12) 1,2-Dichlorobenzene	3.778	146	965277	143.464	ug/ml	98
13) Benzyl alcohol	3.778	79	674559	153.850	ug/ml	95
14) Bis(2-chloroisopropyl)...	3.890	45	800534	143.011	ug/ml#	73

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL9.D
 Acq On : 20 Jul 2023 11:44 pm
 Operator : JULIET: jg
 Sample : IL2,32,,ABNL150 Lot# 10131
 Misc : WG1806439,,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 21 20:43:32 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	3.890	108	734190	145.294	ug/ml	98
16) Hexachloroethane	4.060	117	339538	141.660	ug/ml#	81
17) n-Nitrosodi-n-propylamine	4.013	70	545587	152.528	ug/ml	98
18) 3-Methylphenol/4-Methy...	4.037	108	786905	152.568	ug/ml	98
20) Nitrobenzene	4.137	77	774477	144.997	ug/ml	99
21) Isophorone	4.348	82	1521814	145.589	ug/ml	98
22) 2-Nitrophenol	4.407	139	509594	154.793	ug/ml	96
23) 2,4-Dimethylphenol	4.484	107	856349	147.498	ug/ml	98
24) Bis(2-chloroethoxy)met...	4.554	93	864918	142.662	ug/ml	99
25) 2,4-Dichlorophenol	4.631	162	837679	149.451	ug/ml	96
26) 1,2,4-Trichlorobenzene	4.690	180	883346	141.394	ug/ml	99
36) Naphthalene	4.743	128	2397817	135.640	ug/ml	99
37) Benzoic Acid	4.654	105	660110	150.877	ug/ml	97
38) 4-Chloroaniline	4.813	65	273805	151.033	ug/ml	88
39) Hexachlorobutadiene	4.872	225	524214	141.942	ug/ml	98
40) p-Chloro-m-cresol	5.266	107	791284	153.166	ug/ml	96
41) 2-Methylnaphthalene	5.348	142	1772127	148.413	ug/ml	98
42) 1-Methylnaphthalene	5.431	115	568181	146.142	ug/ml	86
43) Hexachlorocyclopentadiene	5.495	237	563557	146.837	ug/ml	99
44) 2,4,6-Trichlorophenol	5.613	196	673314	152.899	ug/ml	99
45) 2,4,5-Trichlorophenol	5.643	196	702222	149.109	ug/ml	99
47) 2-Chloronaphthalene	5.766	162	1766090	138.252	ug/ml	98
48) 2-Nitroaniline	5.878	138	633895	152.883	ug/ml	93
49) 1,4-Dinitrobenzene	6.007	168	306186	153.114	ug/ml	94
50) 1,3-Dinitrobenzene	6.078	168	320636	153.311	ug/ml	83
51) Dimethyl phthalate	6.060	163	2169411	139.523	ug/ml	99
52) Acenaphthylene	6.119	152	2761625	133.675	ug/ml	97
53) 2,6-Dinitrotoluene	6.101	165	473189	145.489	ug/ml#	72
54) 1,2-Dinitrobenzene	6.143	168	183108	136.195	ug/ml#	48
64) 3-Nitroaniline	6.242	138	560053	153.265	ug/ml	95
65) Acenaphthene	6.278	154	1647760	138.184	ug/ml	100
66) 2,4-Dinitrophenol	6.342	184	337039	154.639	ug/ml	95
67) Dibenzofuran	6.425	168	2583174	140.454	ug/ml	97
68) 2,4-Dinitrotoluene	6.454	165	645131	152.666	ug/ml#	80
69) 4-Nitrophenol	6.425	65	383095	158.669	ug/ml#	87
70) 2,3,5,6-Tetrachlorophenol	6.513	232	603779	151.268	ug/ml	100
71) 2,3,4,6-Tetrachlorophenol	6.548	232	595978	144.073	ug/ml	99
72) Diethyl phthalate	6.666	149	2138487	137.396	ug/ml	99
73) Fluorene	6.725	166	2093628	138.346	ug/ml	99
74) 4-Chlorophenyl phenyl ...	6.737	204	1006926	136.628	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL9.D
 Acq On : 20 Jul 2023 11:44 pm
 Operator : JULIET: jg
 Sample : IL2,32,,ABNL150 Lot# 10131
 Misc : WG1806439,,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 21 20:43:32 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	6.778	138	508985	146.890	ug/ml#	81
76) 4,6-Dinitro-o-cresol	6.813	198	425644	153.974	ug/ml	90
77) NDPA/DPA	6.848	169	1709291	133.992	ug/ml	98
78) Azobenzene	6.872	77	1550009M6	137.556	ug/ml	
80) 4-Bromophenyl phenyl e...	7.154	248	703634	145.919	ug/ml	98
81) Hexachlorobenzene	7.207	284	773132	140.193	ug/ml	99
82) Pentachlorophenol	7.384	266	468038	151.845	ug/ml	99
89) Phenanthrene	7.548	178	3206580	133.406	ug/ml	98
90) Anthracene	7.589	178	3232551	134.533	ug/ml	98
91) Carbazole	7.742	167	3160665	136.785	ug/ml	98
92) Di-n-butylphthalate	8.084	149	4007437	140.783	ug/ml	98
93) Fluoranthene	8.572	202	4345589	137.614	ug/ml#	94
94) Benzidine	8.713	184	2959557	145.178	ug/ml#	96
95) Pyrene	8.766	202	4147114	129.174	ug/ml	97
97) Butyl benzyl phthalate	9.460	149	2143179	150.827	ug/ml	98
105) Benzo(a)anthracene	10.048	228	4750043	134.626	ug/ml	98
106) 3,3'-Dichlorobenzidine	10.054	252	1948707	144.221	ug/ml	97
107) Chrysene	10.095	228	3640609	126.258	ug/ml	98
108) Bis(2-ethylhexyl)phtha...	10.195	149	2763026	142.931	ug/ml	99
109) Di-n-octylphthalate	11.142	149	5564208	151.215	ug/ml	99
110) Benzo(b)fluoranthene	11.554	252	5307716	144.702	ug/ml	95
111) Benzo(k)fluoranthene	11.601	252	3950790	124.904	ug/ml	97
112) Benzo(a)pyrene	12.042	252	4355761	139.017	ug/ml	97
114) Indeno(1,2,3-cd)pyrene	13.795	276	4755842	149.679	ug/mL	96
115) Dibenzo(a,h)anthracene	13.854	278	4421289	139.548	ug/ml	96
116) Benzo(ghi)perylene	14.201	276	4492838	139.908	ug/ml	95

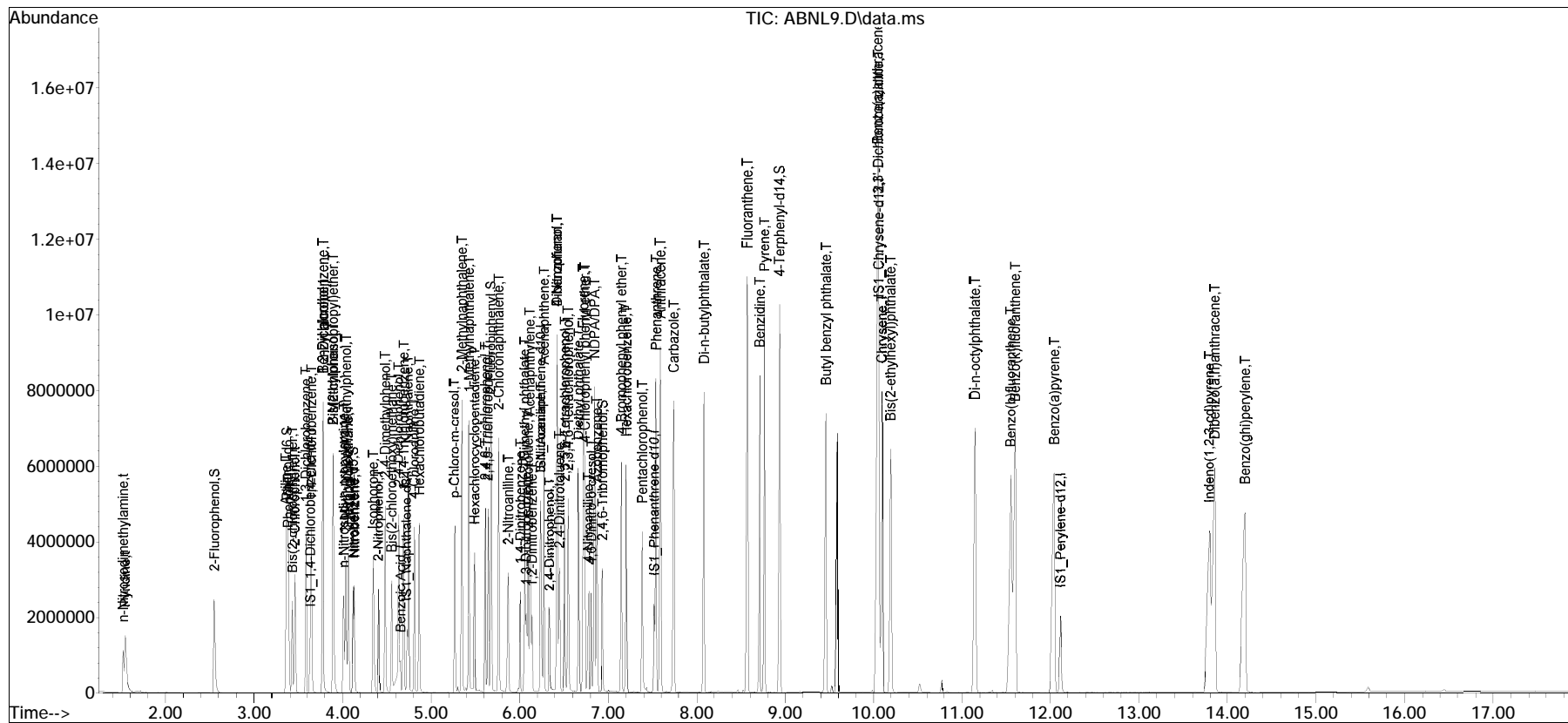
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL9.D
 Acq On : 20 Jul 2023 11:44 pm
 Operator : JULIET: jg
 Sample : IL2,32,,ABNL150 Lot# 10131
 Misc : WG1806439,,
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 21 20:43:32 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

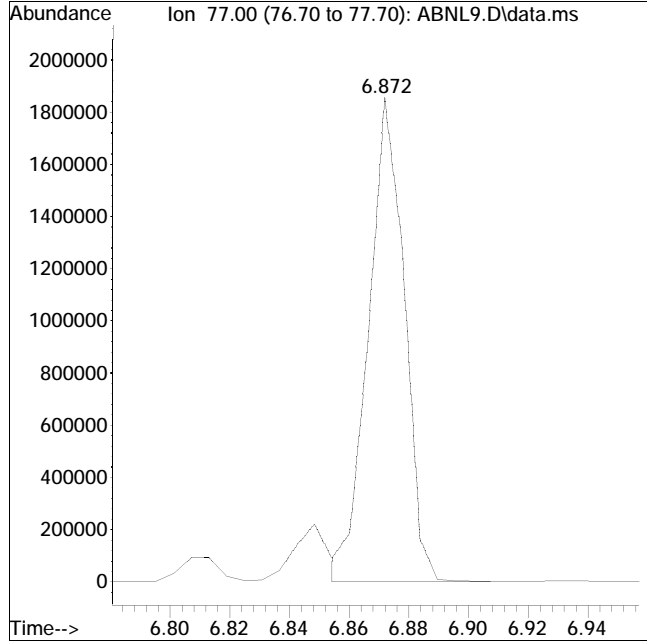
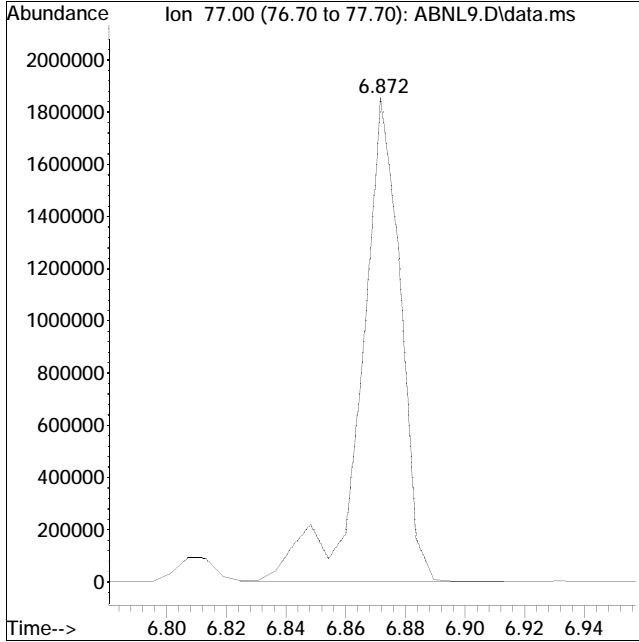
Sub List : ABNical - ABN ical sublistcal\ABNL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ABNL9.D Operator : JULIET: jg
Date Inj'd : 7/20/2023 11:44 pm Instrument : Juliet
Sample : IL2,32,,ABNL150 Lot# 10131 Quant Date : 7/21/2023 12:34 pm

Compound #78: Azobenzene



Original Peak Response = 1722011

Manual Peak Response = 1550009 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL8.D
 Acq On : 21 Jul 2023 12:08 am
 Operator : JULIET: jg
 Sample : IL3,32,,ABNL100 Lot# 10132
 Misc : WG1806439,,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 21 13:14:23 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.637	152	193599	40.000	ug/ml	# 0.00
Standard Area 1 = 239757			Recovery =	80.75%		
35) IS1_Naphthalene-d8	4.725	136	711929	40.000	ug/ml	0.00
Standard Area 1 = 875703			Recovery =	81.30%		
63) IS1_Acenaphthene-d10	6.242	164	430391	40.000	ug/ml	0.00
Standard Area 1 = 526173			Recovery =	81.80%		
88) IS1_Phenanthrene-d10	7.519	188	970085	40.000	ug/ml	0.00
Standard Area 1 = 1184116			Recovery =	81.92%		
104) IS1_Chrysene-d12	10.054	240	1016858	40.000	ug/ml	# 0.00
Standard Area 1 = 1226984			Recovery =	82.87%		
113) IS1_Perylene-d12	12.113	264	1164725	40.000	ug/ml	0.00
Standard Area 1 = 1421285			Recovery =	81.95%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.554	112	539966	109.564	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	219.13%#		
7) Phenol-d6	3.366	99	671023	105.033	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	210.07%#		
19) Nitrobenzene-d5	4.113	82	558654	98.655	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	394.62%#		
46) 2-Fluorobiphenyl	5.678	172	1447327	95.535	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	382.14%#		
79) 2,4,6-Tribromophenol	6.931	330	244718	97.318	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	194.64%#		
96) 4-Terphenyl-d14	8.936	244	2191593	90.738	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	362.95%#		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	1.519	74	324762	106.896	ug/ml#	82
3) Pyridine	1.543	79	587833	104.576	ug/ml#	79
5) Aniline	3.360	93	857393	102.187	ug/ml	95
6) 2-Chlorophenol	3.460	128	614736	101.017	ug/ml	94
8) Phenol	3.378	94	737148	103.967	ug/ml	95
9) Bis(2-chloroethyl)ether	3.431	93	454277	95.340	ug/ml	91
10) 1,3-Dichlorobenzene	3.584	146	681266	97.175	ug/ml	98
11) 1,4-Dichlorobenzene	3.648	146	683180	96.081	ug/ml	97
12) 1,2-Dichlorobenzene	3.778	146	660924	96.564	ug/ml	98
13) Benzyl alcohol	3.772	79	454652	101.937	ug/ml	95
14) Bis(2-chloroisopropyl)...	3.890	45	552843	97.088	ug/ml#	73

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL8.D
 Acq On : 21 Jul 2023 12:08 am
 Operator : JULIET: jg
 Sample : IL3,32,,ABNL100 Lot# 10132
 Misc : WG1806439,,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 21 13:14:23 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	3.890	108	500896	97.445	ug/ml	98
16) Hexachloroethane	4.060	117	230051	94.353	ug/ml#	82
17) n-Nitrosodi-n-propylamine	4.007	70	364046	100.049	ug/ml	99
18) 3-Methylphenol/4-Methy...	4.031	108	530735	101.156	ug/ml	98
20) Nitrobenzene	4.131	77	533994	98.279	ug/ml	99
21) Isophorone	4.343	82	1031187	96.979	ug/ml	98
22) 2-Nitrophenol	4.407	139	348750	104.139	ug/ml	96
23) 2,4-Dimethylphenol	4.484	107	579059	98.046	ug/ml	98
24) Bis(2-chloroethoxy)met...	4.548	93	594121	96.334	ug/ml	99
25) 2,4-Dichlorophenol	4.625	162	573358	100.559	ug/ml	96
26) 1,2,4-Trichlorobenzene	4.690	180	610377	96.044	ug/ml	99
36) Naphthalene	4.743	128	1672414	93.701	ug/ml	99
37) Benzoic Acid	4.637	105	448395	101.869	ug/ml	97
38) 4-Chloroaniline	4.813	65	184003	100.527	ug/ml	88
39) Hexachlorobutadiene	4.872	225	353995	94.935	ug/ml	99
40) p-Chloro-m-cresol	5.260	107	527476	101.126	ug/ml	96
41) 2-Methylnaphthalene	5.348	142	1217030	100.950	ug/ml	98
42) 1-Methylnaphthalene	5.431	115	385806	98.285	ug/ml	88
43) Hexachlorocyclopentadiene	5.495	237	363410	97.537	ug/ml	99
44) 2,4,6-Trichlorophenol	5.613	196	450310	101.281	ug/ml	100
45) 2,4,5-Trichlorophenol	5.642	196	489426	102.930	ug/ml	98
47) 2-Chloronaphthalene	5.766	162	1209460	93.773	ug/ml	98
48) 2-Nitroaniline	5.872	138	434043	103.682	ug/ml	92
49) 1,4-Dinitrobenzene	6.001	168	204596	101.342	ug/ml	95
50) 1,3-Dinitrobenzene	6.072	168	217275	102.855	ug/ml	79
51) Dimethyl phthalate	6.054	163	1494842	95.220	ug/ml	100
52) Acenaphthylene	6.119	152	1954909	93.721	ug/ml	99
53) 2,6-Dinitrotoluene	6.095	165	323226	98.430	ug/ml#	76
54) 1,2-Dinitrobenzene	6.137	168	126074	92.877	ug/ml	97
64) 3-Nitroaniline	6.237	138	375365	102.231	ug/ml	95
65) Acenaphthene	6.272	154	1135864	94.838	ug/ml	100
66) 2,4-Dinitrophenol	6.337	184	216361	101.042	ug/ml	95
67) Dibenzofuran	6.425	168	1797091	97.284	ug/ml	96
68) 2,4-Dinitrotoluene	6.448	165	443040	104.309	ug/ml#	81
69) 4-Nitrophenol	6.419	65	255548	105.367	ug/ml#	83
70) 2,3,5,6-Tetrachlorophenol	6.513	232	407017	101.525	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	6.548	232	406439	97.823	ug/ml	99
72) Diethyl phthalate	6.666	149	1486661	95.098	ug/ml	100
73) Fluorene	6.719	166	1445545	95.102	ug/ml	100
74) 4-Chlorophenyl phenyl ...	6.731	204	694938	93.882	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL8.D
 Acq On : 21 Jul 2023 12:08 am
 Operator : JULIET: jg
 Sample : IL3,32,,ABNL100 Lot# 10132
 Misc : WG1806439,,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 21 13:14:23 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	6.766	138	352985	101.423	ug/ml#	81
76) 4,6-Dinitro-o-cresol	6.807	198	286710	103.454	ug/ml	90
77) NDPA/DPA	6.842	169	1196060	93.348	ug/ml	98
78) Azobenzene	6.872	77	1081774	95.582	ug/ml	94
80) 4-Bromophenyl phenyl e...	7.154	248	467834	96.594	ug/ml	98
81) Hexachlorobenzene	7.201	284	526930	95.130	ug/ml	98
82) Pentachlorophenol	7.384	266	311986	100.934	ug/ml	98
89) Phenanthrene	7.542	178	2254454	91.722	ug/ml	100
90) Anthracene	7.589	178	2256700	91.846	ug/ml	99
91) Carbazole	7.742	167	2181980	92.344	ug/ml	99
92) Di-n-butylphthalate	8.078	149	2772880	95.261	ug/ml	99
93) Fluoranthene	8.572	202	3000802	92.929	ug/ml#	95
94) Benzidine	8.707	184	2027349	97.253	ug/ml#	97
95) Pyrene	8.766	202	2943956	89.673	ug/ml	99
97) Butyl benzyl phthalate	9.454	149	1427730	98.258	ug/ml	98
105) Benzo(a)anthracene	10.042	228	3291133	91.470	ug/ml	99
106) 3,3'-Dichlorobenzidine	10.048	252	1368138	99.292	ug/ml	98
107) Chrysene	10.089	228	2574274	87.547	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	10.195	149	1910062	96.893	ug/ml	100
109) Di-n-octylphthalate	11.136	149	3833874	102.171	ug/ml	98
110) Benzo(b)fluoranthene	11.548	252	3502659	93.641	ug/ml	97
111) Benzo(k)fluoranthene	11.589	252	3014928	93.470	ug/ml#	95
112) Benzo(a)pyrene	12.030	252	3035806	95.012	ug/ml	97
114) Indeno(1,2,3-cd)pyrene	13.783	276	3220499	97.861	ug/mL	96
115) Dibenzo(a,h)anthracene	13.842	278	3162381	96.371	ug/ml	97
116) Benzo(ghi)perylene	14.183	276	3193628	96.020	ug/ml	95

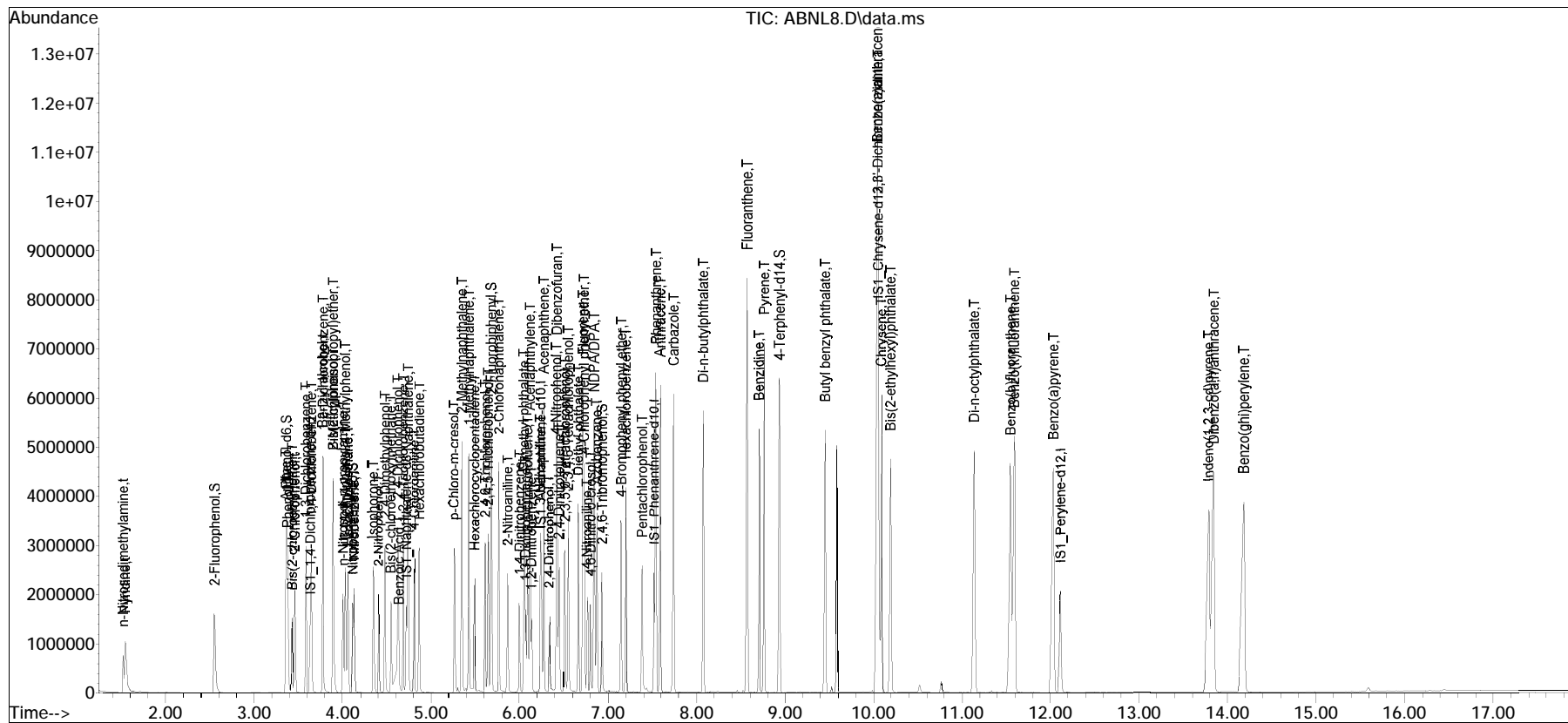
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL8.D
 Acq On : 21 Jul 2023 12:08 am
 Operator : JULIET: jg
 Sample : IL3,32,,ABNL100 Lot# 10132
 Misc : WG1806439,,
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 21 13:14:23 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistcal\ABNL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ABNL8.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 12:08 am Instrument : Juliet
Sample : IL3,32,,ABNL100 Lot# 10132Quant Date : 7/21/2023 12:33 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL7.D
 Acq On : 21 Jul 2023 12:31 am
 Operator : JULIET: jg
 Sample : IL4,32,,ABNL50 Lot# 10133
 Misc : WG1806439,,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 21 12:32:08 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.631	152	239757	40.000	ug/ml	0.00
Standard Area 1 = 239757			Recovery = 100.00%			
35) IS1_Naphthalene-d8	4.725	136	875703	40.000	ug/ml	0.00
Standard Area 1 = 875703			Recovery = 100.00%			
63) IS1_Acenaphthene-d10	6.242	164	526173	40.000	ug/ml	0.00
Standard Area 1 = 526173			Recovery = 100.00%			
88) IS1_Phenanthrene-d10	7.519	188	1184116	40.000	ug/ml	0.00
Standard Area 1 = 1184116			Recovery = 100.00%			
104) IS1_Chrysene-d12	10.054	240	1226984	40.000	ug/ml	# 0.00
Standard Area 1 = 1226984			Recovery = 100.00%			
113) IS1_Perylene-d12	12.107	264	1421285	40.000	ug/ml	0.00
Standard Area 1 = 1421285			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.560	112	313396	51.348	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 102.70%			
7) Phenol-d6	3.366	99	402680	50.895	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 101.79%			
19) Nitrobenzene-d5	4.113	82	345336	49.244	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 196.98%#			
46) 2-Fluorobiphenyl	5.678	172	899527	48.272	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 193.09%#			
79) 2,4,6-Tribromophenol	6.931	330	151978	49.436	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 98.87%			
96) 4-Terphenyl-d14	8.931	244	1360210	46.137	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 184.55%#			
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	1.525	74	185771	49.375	ug/ml#	83
3) Pyridine	1.549	79	345690	49.659	ug/ml#	78
5) Aniline	3.360	93	510584	49.138	ug/ml#	86
6) 2-Chlorophenol	3.460	128	370887	49.213	ug/ml	94
8) Phenol	3.378	94	447574	50.973	ug/ml#	87
9) Bis(2-chloroethyl)ether	3.425	93	283262	48.004	ug/ml	91
10) 1,3-Dichlorobenzene	3.584	146	418042	48.149	ug/ml	98
11) 1,4-Dichlorobenzene	3.649	146	412019	46.790	ug/ml	99
12) 1,2-Dichlorobenzene	3.778	146	402465	47.482	ug/ml	97
13) Benzyl alcohol	3.772	79	273880	49.584	ug/ml	95
14) Bis(2-chloroisopropyl)...	3.890	45	343211	48.669	ug/ml#	75

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL7.D
 Acq On : 21 Jul 2023 12:31 am
 Operator : JULIET: jg
 Sample : IL4,32,,ABNL50 Lot# 10133
 Misc : WG1806439,,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 21 12:32:08 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	3.890	108	305303M3	47.960	ug/ml	
16) Hexachloroethane	4.060	117	142075	47.052	ug/ml#	82
17) n-Nitrosodi-n-propylamine	4.001	70	224923	49.914	ug/ml	99
18) 3-Methylphenol/4-Methy...	4.031	108	325075	50.030	ug/ml	98
20) Nitrobenzene	4.131	77	328058	48.754	ug/ml	99
21) Isophorone	4.343	82	633422	48.102	ug/ml	98
22) 2-Nitrophenol	4.407	139	207259	49.974	ug/ml	96
23) 2,4-Dimethylphenol	4.478	107	349754	47.819	ug/ml	98
24) Bis(2-chloroethoxy)met...	4.548	93	364272	47.694	ug/ml	99
25) 2,4-Dichlorophenol	4.625	162	346825	49.118	ug/ml	96
26) 1,2,4-Trichlorobenzene	4.684	180	375996	47.774	ug/ml	98
36) Naphthalene	4.743	128	1051546	47.897	ug/ml	99
37) Benzoic Acid	4.613	105	267627	50.000	ug/ml	97
38) 4-Chloroaniline	4.807	65	112059	49.772	ug/ml	86
39) Hexachlorobutadiene	4.866	225	217904	47.509	ug/ml	99
40) p-Chloro-m-cresol	5.260	107	317994	49.563	ug/ml	98
41) 2-Methylnaphthalene	5.348	142	740921	49.964	ug/ml	98
42) 1-Methylnaphthalene	5.431	115	232069	48.063	ug/ml	87
43) Hexachlorocyclopentadiene	5.495	237	203173	50.000	ug/ml	98
44) 2,4,6-Trichlorophenol	5.607	196	271254	49.599	ug/ml	99
45) 2,4,5-Trichlorophenol	5.643	196	298930	51.110	ug/ml	98
47) 2-Chloronaphthalene	5.766	162	757864	47.770	ug/ml	98
48) 2-Nitroaniline	5.872	138	259391	50.374	ug/ml	93
49) 1,4-Dinitrobenzene	6.001	168	122009	49.145	ug/ml	96
50) 1,3-Dinitrobenzene	6.072	168	134739	51.794	ug/ml	85
51) Dimethyl phthalate	6.048	163	916596	47.467	ug/ml	100
52) Acenaphthylene	6.119	152	1237657	48.238	ug/ml	99
53) 2,6-Dinitrotoluene	6.090	165	196270	48.591	ug/ml#	77
54) 1,2-Dinitrobenzene	6.131	168	77024	46.131	ug/ml	100
64) 3-Nitroaniline	6.231	138	235931	52.498	ug/ml#	93
65) Acenaphthene	6.272	154	686312	46.872	ug/ml	98
66) 2,4-Dinitrophenol	6.331	184	122282	50.000	ug/ml	96
67) Dibenzofuran	6.419	168	1098373	48.636	ug/ml	95
68) 2,4-Dinitrotoluene	6.442	165	274684	52.784	ug/ml#	80
69) 4-Nitrophenol	6.419	65	148877	50.194	ug/ml#	78
70) 2,3,5,6-Tetrachlorophenol	6.507	232	246530	50.300	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	6.548	232	242304	47.702	ug/ml	99
72) Diethyl phthalate	6.660	149	924677	48.382	ug/ml	100
73) Fluorene	6.719	166	899123	48.385	ug/ml	100
74) 4-Chlorophenyl phenyl ...	6.731	204	440869	48.717	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL7.D
 Acq On : 21 Jul 2023 12:31 am
 Operator : JULIET: jg
 Sample : IL4,32,,ABNL50 Lot# 10133
 Misc : WG1806439,,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 21 12:32:08 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	6.760	138	218512	51.356	ug/ml#	80
76) 4,6-Dinitro-o-cresol	6.801	198	172505	51.212	ug/ml	88
77) NDPA/DPA	6.842	169	748445	47.780	ug/ml	98
78) Azobenzene	6.866	77	690934	49.935	ug/ml	94
80) 4-Bromophenyl phenyl e...	7.148	248	288831	48.779	ug/ml	98
81) Hexachlorobenzene	7.201	284	321884	47.533	ug/ml	97
82) Pentachlorophenol	7.378	266	181323	48.233	ug/ml	99
89) Phenanthrene	7.542	178	1401108	46.700	ug/ml	99
90) Anthracene	7.584	178	1406645	46.901	ug/ml	100
91) Carbazole	7.742	167	1349705	46.797	ug/ml	99
92) Di-n-butylphthalate	8.078	149	1695292	47.714	ug/ml	99
93) Fluoranthene	8.566	202	1856774	47.108	ug/ml#	95
94) Benzidine	8.707	184	1201647	47.224	ug/ml#	97
95) Pyrene	8.760	202	1855488	46.302	ug/ml	99
97) Butyl benzyl phthalate	9.454	149	858166	48.385	ug/ml	98
105) Benzo(a)anthracene	10.036	228	1992409	45.892	ug/ml	99
106) 3,3'-Dichlorobenzidine	10.042	252	815885	49.072	ug/ml	98
107) Chrysene	10.083	228	1615412	45.529	ug/ml	100
108) Bis(2-ethylhexyl)phtha...	10.189	149	1163746	48.924	ug/ml	99
109) Di-n-octylphthalate	11.136	149	2300338	50.805	ug/ml	97
110) Benzo(b)fluoranthene	11.536	252	2145530	47.536	ug/ml	96
111) Benzo(k)fluoranthene	11.577	252	1823530	46.852	ug/ml	95
112) Benzo(a)pyrene	12.019	252	1832813	47.538	ug/ml#	96
114) Indeno(1,2,3-cd)pyrene	13.771	276	1901097	47.341	ug/mL	95
115) Dibenzo(a,h)anthracene	13.824	278	1938685	48.415	ug/ml	96
116) Benzo(ghi)perylene	14.166	276	1948594	48.011	ug/ml	95

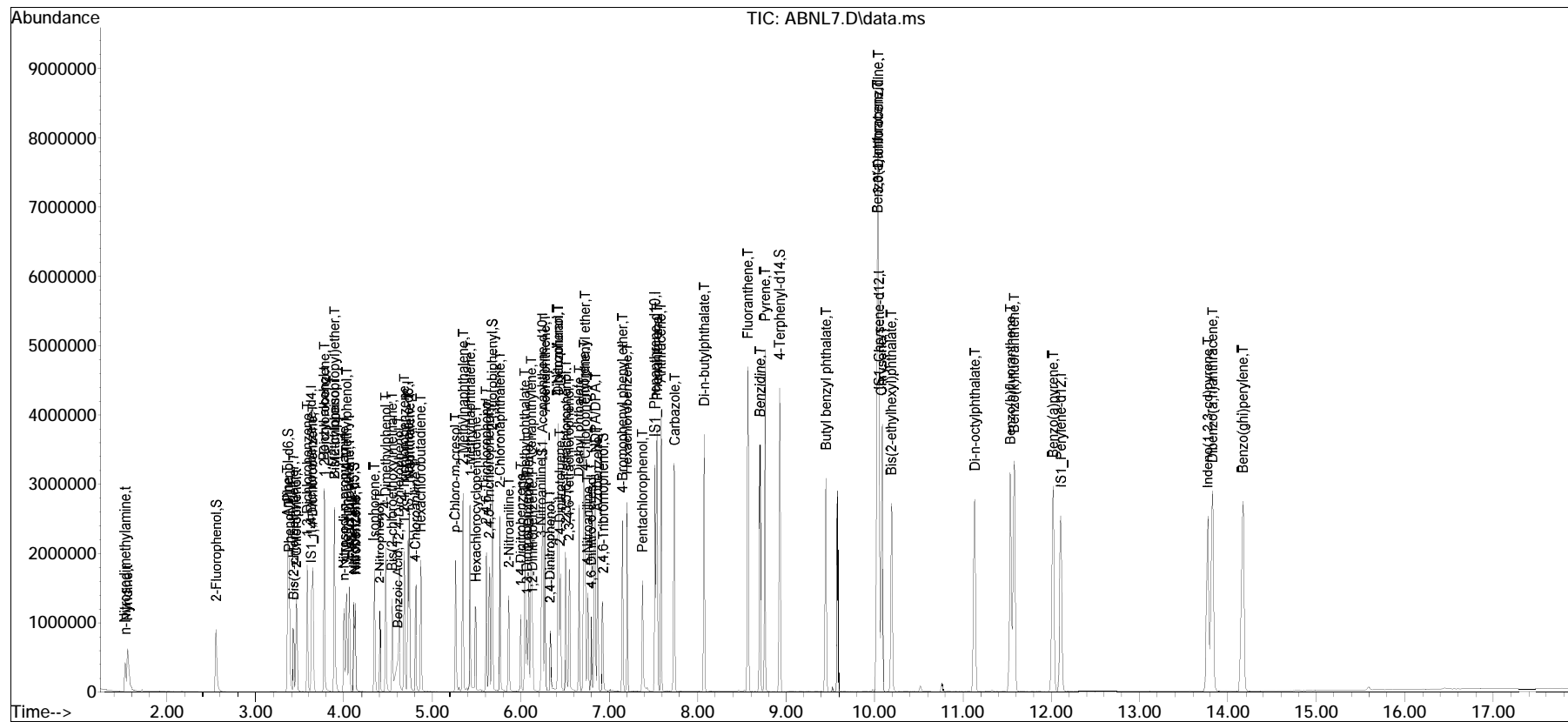
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL7.D
 Acq On : 21 Jul 2023 12:31 am
 Operator : JULIET: jg
 Sample : IL4,32,,ABNL50 Lot# 10133
 Misc : WG1806439,,
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 21 12:32:08 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

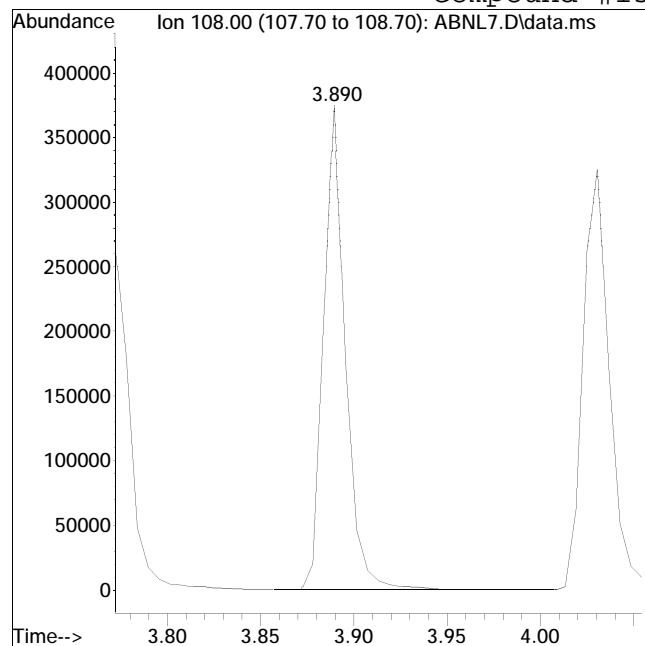
Sub List : ABNical - ABN ical sublistcal\ABNL7.D•



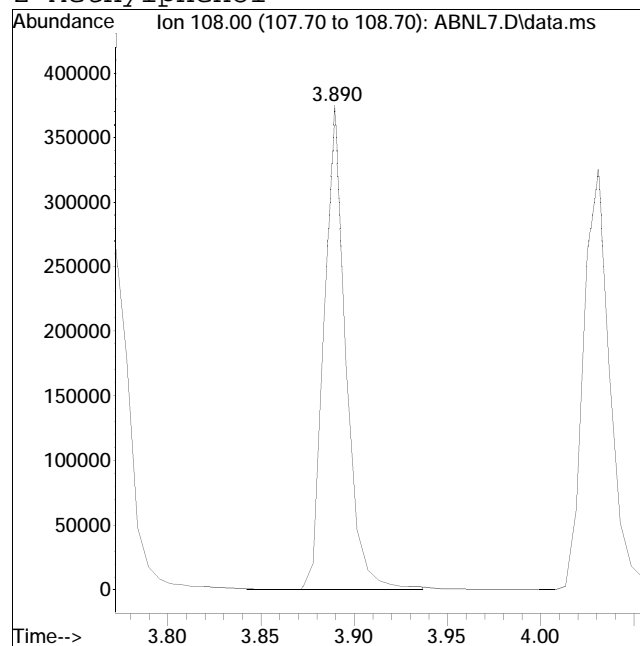
Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ABNL7.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 12:31 am Instrument : Juliet
Sample : IL4,32,,ABNL50 Lot# 10133 Quant Date : 7/21/2023 12:32 pm

Compound #15: 2-Methylphenol



Original Peak Response = 302692



Manual Peak Response = 305303 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL6.D
 Acq On : 21 Jul 2023 12:55 am
 Operator : JULIET: jg
 Sample : IL5,32,,ABNL20 Lot# 10134
 Misc : WG1806439,,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 21 13:12:56 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.631	152	214858	40.000	ug/ml	0.00
Standard Area 1 = 239757			Recovery =	89.61%		
35) IS1_Naphthalene-d8	4.725	136	793417	40.000	ug/ml	0.00
Standard Area 1 = 875703			Recovery =	90.60%		
63) IS1_Acenaphthene-d10	6.242	164	482020	40.000	ug/ml	0.00
Standard Area 1 = 526173			Recovery =	91.61%		
88) IS1_Phenanthrene-d10	7.519	188	1084866	40.000	ug/ml	0.00
Standard Area 1 = 1184116			Recovery =	91.62%		
104) IS1_Chrysene-d12	10.048	240	1181291	40.000	ug/ml	# 0.00
Standard Area 1 = 1226984			Recovery =	96.28%		
113) IS1_Perylene-d12	12.107	264	1407924	40.000	ug/ml	0.00
Standard Area 1 = 1421285			Recovery =	99.06%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.560	112	107311	19.620	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	39.24%		
7) Phenol-d6	3.366	99	135966	19.176	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	38.35%		
19) Nitrobenzene-d5	4.113	82	122348	19.468	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	77.87%		
46) 2-Fluorobiphenyl	5.678	172	331025	19.606	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	78.42%		
79) 2,4,6-Tribromophenol	6.931	330	53858	19.124	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	38.25%		
96) 4-Terphenyl-d14	8.930	244	513417	19.008	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	76.03%		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	1.525	74	63900	18.952	ug/ml#	81
3) Pyridine	1.554	79	118862	19.053	ug/ml#	78
5) Aniline	3.360	93	172728	18.549	ug/ml#	85
6) 2-Chlorophenol	3.460	128	133728	19.801	ug/ml	94
8) Phenol	3.378	94	151543	19.259	ug/ml#	87
9) Bis(2-chloroethyl)ether	3.425	93	100039	18.918	ug/ml	89
10) 1,3-Dichlorobenzene	3.584	146	151484	19.470	ug/ml	97
11) 1,4-Dichlorobenzene	3.648	146	147510	18.693	ug/ml	99
12) 1,2-Dichlorobenzene	3.778	146	145928	19.211	ug/ml	96
13) Benzyl alcohol	3.772	79	96157	19.426	ug/ml	94
14) Bis(2-chloroisopropyl)...	3.890	45	124554	19.709	ug/ml#	78

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL6.D
 Acq On : 21 Jul 2023 12:55 am
 Operator : JULIET: jg
 Sample : IL5,32,,ABNL20 Lot# 10134
 Misc : WG1806439,,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 21 13:12:56 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	3.890	108	108440	19.009	ug/ml	99
16) Hexachloroethane	4.060	117	51654	19.089	ug/ml#	82
17) n-Nitrosodi-n-propylamine	4.001	70	79560	19.702	ug/ml	99
18) 3-Methylphenol/4-Methy...	4.031	108	115492	19.834	ug/ml	99
20) Nitrobenzene	4.131	77	117679	19.515	ug/ml	99
21) Isophorone	4.342	82	224587	19.032	ug/ml	99
22) 2-Nitrophenol	4.407	139	72572	19.526	ug/ml	96
23) 2,4-Dimethylphenol	4.478	107	124961	19.065	ug/ml	96
24) Bis(2-chloroethoxy)met...	4.548	93	129797	18.964	ug/ml	99
25) 2,4-Dichlorophenol	4.625	162	121416	19.188	ug/ml	95
26) 1,2,4-Trichlorobenzene	4.684	180	134743	19.104	ug/ml	99
36) Naphthalene	4.742	128	387892	19.501	ug/ml	99
37) Benzoic Acid	4.578	105	87819	18.815	ug/ml	93
38) 4-Chloroaniline	4.807	65	38973	19.105	ug/ml	82
39) Hexachlorobutadiene	4.866	225	77434	18.634	ug/ml	99
40) p-Chloro-m-cresol	5.260	107	110370	18.987	ug/ml	97
41) 2-Methylnaphthalene	5.348	142	262304	19.523	ug/ml	97
42) 1-Methylnaphthalene	5.431	115	85827	19.619	ug/ml	86
43) Hexachlorocyclopentadiene	5.495	237	55447	22.321	ug/ml	100
44) 2,4,6-Trichlorophenol	5.607	196	95843	19.342	ug/ml	100
45) 2,4,5-Trichlorophenol	5.642	196	105654	19.938	ug/ml	97
47) 2-Chloronaphthalene	5.760	162	277037	19.274	ug/ml	96
48) 2-Nitroaniline	5.872	138	93664	20.076	ug/ml	93
49) 1,4-Dinitrobenzene	6.001	168	43165	19.205	ug/ml	94
50) 1,3-Dinitrobenzene	6.066	168	47311	19.997	ug/ml	98
51) Dimethyl phthalate	6.042	163	340106	19.439	ug/ml	99
52) Acenaphthylene	6.113	152	461004	19.831	ug/ml	99
53) 2,6-Dinitrotoluene	6.089	165	71605	19.566	ug/ml#	82
54) 1,2-Dinitrobenzene	6.131	168	29224	19.318	ug/ml	97
64) 3-Nitroaniline	6.225	138	84169	20.368	ug/ml#	95
65) Acenaphthene	6.266	154	256124	19.094	ug/ml	98
66) 2,4-Dinitrophenol	6.336	184	38935	21.369	ug/ml	93
67) Dibenzofuran	6.419	168	404825	19.568	ug/ml	94
68) 2,4-Dinitrotoluene	6.442	165	99676	20.768	ug/ml#	80
69) 4-Nitrophenol	6.419	65	53794	19.779	ug/ml#	78
70) 2,3,5,6-Tetrachlorophenol	6.507	232	85330	19.005	ug/ml	100
71) 2,3,4,6-Tetrachlorophenol	6.548	232	89695	19.276	ug/ml	99
72) Diethyl phthalate	6.654	149	336107	19.197	ug/ml	98
73) Fluorene	6.713	166	332602	19.538	ug/ml	100
74) 4-Chlorophenyl phenyl ...	6.731	204	162844	19.643	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL6.D
 Acq On : 21 Jul 2023 12:55 am
 Operator : JULIET: jg
 Sample : IL5,32,,ABNL20 Lot# 10134
 Misc : WG1806439,,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 21 13:12:56 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	6.754	138	82071	21.056	ug/ml#	88
76) 4,6-Dinitro-o-cresol	6.795	198	59323	19.591	ug/ml#	87
77) NDPA/DPA	6.836	169	282955	19.718	ug/ml	99
78) Azobenzene	6.866	77	257786	20.337	ug/ml	95
80) 4-Bromophenyl phenyl e...	7.148	248	103792	19.135	ug/ml	97
81) Hexachlorobenzene	7.201	284	117903	19.006	ug/ml	98
82) Pentachlorophenol	7.378	266	58617	17.329	ug/ml	98
89) Phenanthrene	7.536	178	535363	19.477	ug/ml	97
90) Anthracene	7.583	178	542096	19.729	ug/ml	98
91) Carbazole	7.736	167	518641	19.627	ug/ml	98
92) Di-n-butylphthalate	8.078	149	635028	19.508	ug/ml	98
93) Fluoranthene	8.566	202	694936	19.244	ug/ml#	94
94) Benzidine	8.707	184	477866	20.498	ug/ml#	96
95) Pyrene	8.760	202	721230	19.644	ug/ml	98
97) Butyl benzyl phthalate	9.448	149	313628	19.301	ug/ml	98
105) Benzo(a)anthracene	10.036	228	774017	18.518	ug/ml	99
106) 3,3'-Dichlorobenzidine	10.036	252	309139	19.313	ug/ml	98
107) Chrysene	10.077	228	644604	18.870	ug/ml	98
108) Bis(2-ethylhexyl)phtha...	10.189	149	439023	19.171	ug/ml	99
109) Di-n-octylphthalate	11.130	149	837447	19.211	ug/ml	97
110) Benzo(b)fluoranthene	11.530	252	795996	18.318	ug/ml	98
111) Benzo(k)fluoranthene	11.571	252	782911	20.893	ug/ml#	93
112) Benzo(a)pyrene	12.013	252	706698	19.039	ug/ml#	96
114) Indeno(1,2,3-cd)pyrene	13.759	276	737010	18.527	ug/mL	94
115) Dibenzo(a,h)anthracene	13.812	278	760144	19.163	ug/ml	97
116) Benzo(ghi)perylene	14.154	276	778576	19.365	ug/ml	94

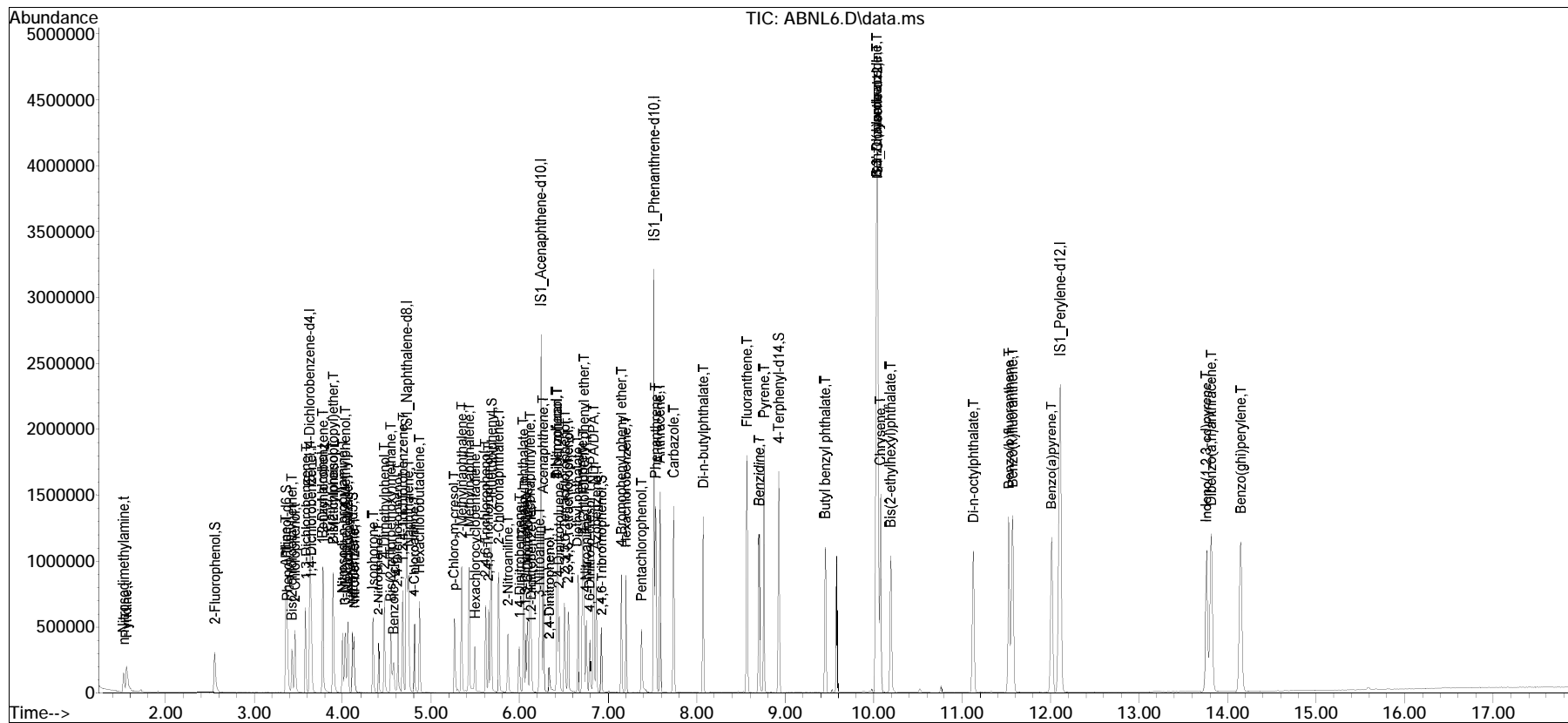
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL6.D
 Acq On : 21 Jul 2023 12:55 am
 Operator : JULIET: jg
 Sample : IL5,32,,ABNL20 Lot# 10134
 Misc : WG1806439,,
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 21 13:12:56 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistcal\ABNL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ABNL6.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 12:55 am Instrument : Juliet
Sample : IL5,32,,ABNL20 Lot# 10134 Quant Date : 7/21/2023 12:33 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL5.D
 Acq On : 21 Jul 2023 1:19 am
 Operator : JULIET: jg
 Sample : IL6,32,,ABNL10 Lot# 10135
 Misc : WG1806439,,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 21 13:11:20 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.631	152	201484	40.000	ug/ml	0.00
Standard Area 1 = 239757			Recovery =	84.04%		
35) IS1_Naphthalene-d8	4.725	136	771522	40.000	ug/ml	0.00
Standard Area 1 = 875703			Recovery =	88.10%		
63) IS1_Acenaphthene-d10	6.242	164	472188	40.000	ug/ml	0.00
Standard Area 1 = 526173			Recovery =	89.74%		
88) IS1_Phenanthrene-d10	7.519	188	1053243	40.000	ug/ml	0.00
Standard Area 1 = 1184116			Recovery =	88.95%		
104) IS1_Chrysene-d12	10.048	240	1171293	40.000	ug/ml	# 0.00
Standard Area 1 = 1226984			Recovery =	95.46%		
113) IS1_Perylene-d12	12.107	264	1393524	40.000	ug/ml	0.00
Standard Area 1 = 1421285			Recovery =	98.05%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.560	112	50167	9.781	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	19.56%		
7) Phenol-d6	3.366	99	64230	9.660	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	19.32%		
19) Nitrobenzene-d5	4.113	82	59971	10.176	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	40.70%		
46) 2-Fluorobiphenyl	5.678	172	161521	9.838	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	39.35%		
79) 2,4,6-Tribromophenol	6.931	330	26830	9.725	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	19.45%		
96) 4-Terphenyl-d14	8.930	244	260774	9.944	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	39.78%		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	1.525	74	28407	8.984	ug/ml#	81
3) Pyridine	1.560	79	51701	8.838	ug/ml#	79
5) Aniline	3.360	93	79260	9.077	ug/ml#	84
6) 2-Chlorophenol	3.460	128	64242	10.144	ug/ml	91
8) Phenol	3.378	94	70642	9.573	ug/ml#	86
9) Bis(2-chloroethyl)ether	3.431	93	46810	9.440	ug/ml	91
10) 1,3-Dichlorobenzene	3.584	146	70933	9.722	ug/ml	98
11) 1,4-Dichlorobenzene	3.648	146	72381	9.781	ug/ml	98
12) 1,2-Dichlorobenzene	3.778	146	69413	9.745	ug/ml	96
13) Benzyl alcohol	3.772	79	45165	9.730	ug/ml	92
14) Bis(2-chloroisopropyl)...	3.895	45	59979	10.121	ug/ml#	79

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL5.D
 Acq On : 21 Jul 2023 1:19 am
 Operator : JULIET: jg
 Sample : IL6,32,,ABNL10 Lot# 10135
 Misc : WG1806439,,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 21 13:11:20 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	3.890	108	50687	9.475	ug/ml	98
16) Hexachloroethane	4.060	117	24593	9.692	ug/ml	83
17) n-Nitrosodi-n-propylamine	4.001	70	38167	10.079	ug/ml	98
18) 3-Methylphenol/4-Methy...	4.031	108	54590	9.997	ug/ml	96
20) Nitrobenzene	4.131	77	56870	10.057	ug/ml	99
21) Isophorone	4.342	82	108819	9.833	ug/ml	99
22) 2-Nitrophenol	4.413	139	34025	9.762	ug/ml	96
23) 2,4-Dimethylphenol	4.478	107	56769	9.236	ug/ml	96
24) Bis(2-chloroethoxy)met...	4.548	93	63729	9.929	ug/ml#	97
25) 2,4-Dichlorophenol	4.631	162	58859	9.919	ug/ml	95
26) 1,2,4-Trichlorobenzene	4.684	180	64030	9.681	ug/ml	98
36) Naphthalene	4.742	128	189418	9.793	ug/ml	98
37) Benzoic Acid	4.566	105	35943	8.560	ug/ml	95
38) 4-Chloroaniline	4.813	65	18985	9.571	ug/ml	82
39) Hexachlorobutadiene	4.866	225	36915	9.135	ug/ml	99
40) p-Chloro-m-cresol	5.266	107	51565	9.122	ug/ml	97
41) 2-Methylnaphthalene	5.348	142	122179	9.352	ug/ml	96
42) 1-Methylnaphthalene	5.425	115	41364	9.724	ug/ml	87
43) Hexachlorocyclopentadiene	5.495	237	20087	14.835	ug/ml#	96
44) 2,4,6-Trichlorophenol	5.613	196	45751	9.495	ug/ml	98
45) 2,4,5-Trichlorophenol	5.648	196	49538	9.614	ug/ml	98
47) 2-Chloronaphthalene	5.760	162	133561	9.556	ug/ml	97
48) 2-Nitroaniline	5.872	138	44034	9.706	ug/ml	93
49) 1,4-Dinitrobenzene	6.001	168	19971	9.151	ug/ml	94
50) 1,3-Dinitrobenzene	6.066	168	23531	10.168	ug/ml	98
51) Dimethyl phthalate	6.042	163	168128	9.882	ug/ml	98
52) Acenaphthylene	6.113	152	226996	10.042	ug/ml	99
53) 2,6-Dinitrotoluene	6.089	165	34405	9.668	ug/ml#	81
54) 1,2-Dinitrobenzene	6.125	168	14228	9.672	ug/ml	100
64) 3-Nitroaniline	6.231	138	41728	10.246	ug/ml#	93
65) Acenaphthene	6.266	154	127827	9.728	ug/ml	99
66) 2,4-Dinitrophenol	6.336	184	14299	11.835	ug/ml	95
67) Dibenzofuran	6.419	168	199536	9.846	ug/ml	92
68) 2,4-Dinitrotoluene	6.442	165	50104	10.544	ug/ml#	82
69) 4-Nitrophenol	6.425	65	25882	9.698	ug/ml	79
70) 2,3,5,6-Tetrachlorophenol	6.507	232	39771	9.042	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	6.548	232	41396	9.081	ug/ml	96
72) Diethyl phthalate	6.654	149	167473	9.765	ug/ml	99
73) Fluorene	6.713	166	161537	9.687	ug/ml	99
74) 4-Chlorophenyl phenyl ...	6.731	204	78180	9.627	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL5.D
 Acq On : 21 Jul 2023 1:19 am
 Operator : JULIET: jg
 Sample : IL6,32,,ABNL10 Lot# 10135
 Misc : WG1806439,,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 21 13:11:20 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	6.754	138	40401	10.581	ug/ml#	88
76) 4,6-Dinitro-o-cresol	6.795	198	26847	9.366	ug/ml#	88
77) NDPA/DPA	6.836	169	140048	9.963	ug/ml	99
78) Azobenzene	6.866	77	127920	10.302	ug/ml	95
80) 4-Bromophenyl phenyl e...	7.148	248	50183	9.444	ug/ml	98
81) Hexachlorobenzene	7.201	284	58707	9.661	ug/ml	98
82) Pentachlorophenol	7.383	266	25516	7.965	ug/ml	97
89) Phenanthrene	7.536	178	264155	9.899	ug/ml	97
90) Anthracene	7.583	178	268088	10.049	ug/ml	98
91) Carbazole	7.736	167	260342	10.148	ug/ml	97
92) Di-n-butylphthalate	8.078	149	311031	9.842	ug/ml	98
93) Fluoranthene	8.566	202	336014	9.584	ug/ml#	94
94) Benzidine	8.701	184	229936	10.159	ug/ml#	95
95) Pyrene	8.760	202	360224	10.106	ug/ml	97
97) Butyl benzyl phthalate	9.448	149	151345	9.593	ug/ml	97
105) Benzo(a)anthracene	10.036	228	380164	9.173	ug/ml	99
106) 3,3'-Dichlorobenzidine	10.036	252	153260	9.656	ug/ml	98
107) Chrysene	10.077	228	332927	9.829	ug/ml	98
108) Bis(2-ethylhexyl)phtha...	10.189	149	220161	9.696	ug/ml	98
109) Di-n-octylphthalate	11.130	149	396698	9.178	ug/ml	96
110) Benzo(b)fluoranthene	11.530	252	396893	9.212	ug/ml	97
111) Benzo(k)fluoranthene	11.571	252	384425	10.347	ug/ml#	92
112) Benzo(a)pyrene	12.007	252	348144	9.459	ug/ml#	95
114) Indeno(1,2,3-cd)pyrene	13.760	276	354327	8.999	ug/mL	94
115) Dibenzo(a,h)anthracene	13.812	278	372861	9.497	ug/ml	96
116) Benzo(ghi)perylene	14.148	276	385793	9.695	ug/ml	94

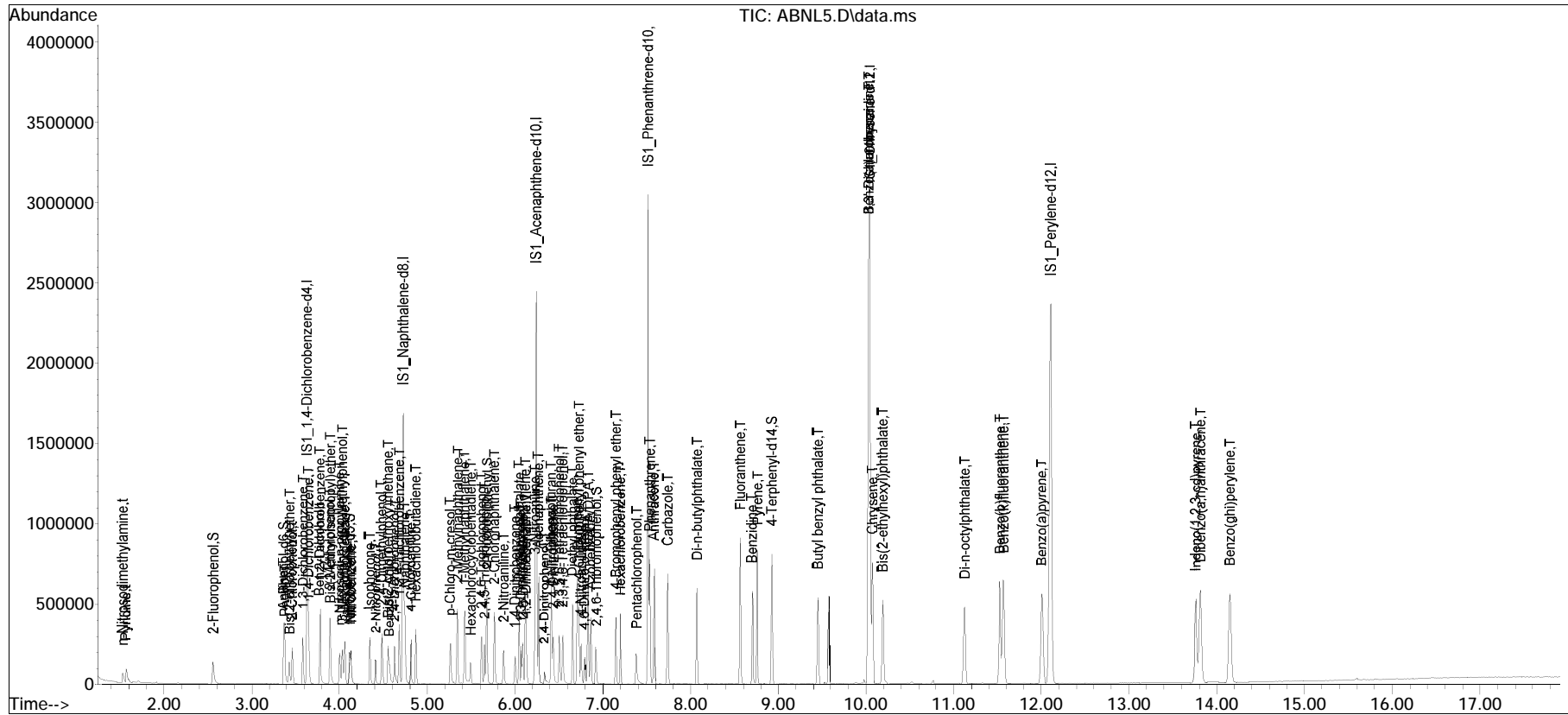
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL5.D
 Acq On : 21 Jul 2023 1:19 am
 Operator : JULIET: jg
 Sample : IL6,32,,ABNL10 Lot# 10135
 Misc : WG1806439,,
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 21 13:11:20 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistcal\ABNL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ABNL5.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 1:19 am Instrument : Juliet
Sample : IL6,32,,ABNL10 Lot# 10135 Quant Date : 7/21/2023 12:33 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL4.D
 Acq On : 21 Jul 2023 1:42 am
 Operator : JULIET: jg
 Sample : IL7,32,,ABNL5 Lot# 10136
 Misc : WG1806439,,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 21 13:09:13 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.631	152	217519	40.000	ug/ml	0.00
Standard Area 1 = 239757			Recovery =	90.72%		
35) IS1_Naphthalene-d8	4.725	136	846725	40.000	ug/ml	0.00
Standard Area 1 = 875703			Recovery =	96.69%		
63) IS1_Acenaphthene-d10	6.242	164	512648	40.000	ug/ml	0.00
Standard Area 1 = 526173			Recovery =	97.43%		
88) IS1_Phenanthrene-d10	7.519	188	1158842	40.000	ug/ml	0.00
Standard Area 1 = 1184116			Recovery =	97.87%		
104) IS1_Chrysene-d12	10.042	240	1275322	40.000	ug/ml	#-0.01
Standard Area 1 = 1226984			Recovery =	103.94%		
113) IS1_Perylene-d12	12.107	264	1529047	40.000	ug/ml	0.00
Standard Area 1 = 1421285			Recovery =	107.58%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.566	112	26341	4.757	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	9.51%#		
7) Phenol-d6	3.372	99	33303	4.640	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	9.28%#		
19) Nitrobenzene-d5	4.119	82	32552	5.116	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	20.46%#		
46) 2-Fluorobiphenyl	5.678	172	89511	4.968	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	19.87%#		
79) 2,4,6-Tribromophenol	6.931	330	14999	5.008	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	10.02%#		
96) 4-Terphenyl-d14	8.931	244	145816	5.054	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	20.22%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.531	74	15391	4.509	ug/ml#	86
3) Pyridine	1.572	79	27609	4.372	ug/ml#	68
5) Aniline	3.366	93	43993	4.667	ug/ml#	87
6) 2-Chlorophenol	3.460	128	33968	4.968	ug/ml	94
8) Phenol	3.378	94	38554	4.840	ug/ml#	88
9) Bis(2-chloroethyl)ether	3.431	93	26598	4.968	ug/ml	87
10) 1,3-Dichlorobenzene	3.584	146	40197	5.103	ug/ml	96
11) 1,4-Dichlorobenzene	3.649	146	39717	4.971	ug/ml	96
12) 1,2-Dichlorobenzene	3.778	146	37918	4.931	ug/ml	97
13) Benzyl alcohol	3.778	79	23938	4.777	ug/ml	95
14) Bis(2-chloroisopropyl)...	3.890	45	32556	5.089	ug/ml#	76

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL4.D
 Acq On : 21 Jul 2023 1:42 am
 Operator : JULIET: jg
 Sample : IL7,32,,ABNL5 Lot# 10136
 Misc : WG1806439,,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 21 13:09:13 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	3.890	108	26591	4.604	ug/ml	99
16) Hexachloroethane	4.060	117	13326	4.865	ug/ml#	77
17) n-Nitrosodi-n-propylamine	4.007	70	21457	5.248	ug/ml	97
18) 3-Methylphenol/4-Methy...	4.031	108	30019	5.092	ug/ml	100
20) Nitrobenzene	4.131	77	30974	5.074	ug/ml	99
21) Isophorone	4.343	82	58775	4.920	ug/ml	99
22) 2-Nitrophenol	4.413	139	18443	4.902	ug/ml	96
23) 2,4-Dimethylphenol	4.478	107	31278	4.714	ug/ml	99
24) Bis(2-chloroethoxy)met...	4.548	93	36059	5.204	ug/ml	97
25) 2,4-Dichlorophenol	4.631	162	31665	4.943	ug/ml	96
26) 1,2,4-Trichlorobenzene	4.684	180	36522	5.115	ug/ml	99
36) Naphthalene	4.743	128	106028	4.995	ug/ml	99
37) Benzoic Acid	4.560	105	18586	4.619	ug/ml	92
38) 4-Chloroaniline	4.813	65	10069	4.625	ug/ml	73
39) Hexachlorobutadiene	4.866	225	21007	4.737	ug/ml	97
40) p-Chloro-m-cresol	5.266	107	28556	4.603	ug/ml	100
41) 2-Methylnaphthalene	5.348	142	69261	4.830	ug/ml	98
42) 1-Methylnaphthalene	5.425	115	21721	4.653	ug/ml	95
43) Hexachlorocyclopentadiene	5.495	237	8984	12.202	ug/ml	98
44) 2,4,6-Trichlorophenol	5.613	196	24631	4.658	ug/ml	99
45) 2,4,5-Trichlorophenol	5.648	196	27368	4.839	ug/ml	99
47) 2-Chloronaphthalene	5.760	162	76395	4.980	ug/ml	96
48) 2-Nitroaniline	5.872	138	24487	4.918	ug/ml	94
49) 1,4-Dinitrobenzene	6.001	168	10285	4.307	ug/ml	99
50) 1,3-Dinitrobenzene	6.072	168	12525	4.868	ug/ml	98
51) Dimethyl phthalate	6.043	163	93014	4.982	ug/ml	98
52) Acenaphthylene	6.113	152	127045	5.121	ug/ml	99
53) 2,6-Dinitrotoluene	6.090	165	18802	4.814	ug/ml#	78
54) 1,2-Dinitrobenzene	6.131	168	7650	4.738	ug/ml	92
64) 3-Nitroaniline	6.231	138	22242	4.966	ug/ml#	86
65) Acenaphthene	6.266	154	71335	5.000	ug/ml	100
66) 2,4-Dinitrophenol	6.343	184	5719	8.223	ug/ml#	92
67) Dibenzofuran	6.419	168	112555	5.115	ug/ml	91
68) 2,4-Dinitrotoluene	6.442	165	27232	5.162	ug/ml	97
69) 4-Nitrophenol	6.425	65	13710	4.716	ug/ml#	71
70) 2,3,5,6-Tetrachlorophenol	6.507	232	21884	4.583	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	6.548	232	23987	4.847	ug/ml	97
72) Diethyl phthalate	6.654	149	94741	5.088	ug/ml	97
73) Fluorene	6.713	166	89899	4.965	ug/ml	97
74) 4-Chlorophenyl phenyl ...	6.731	204	43467	4.930	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL4.D
 Acq On : 21 Jul 2023 1:42 am
 Operator : JULIET: jg
 Sample : IL7,32,,ABNL5 Lot# 10136
 Misc : WG1806439,,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 21 13:09:13 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	6.754	138	22188	5.352	ug/ml#	76
76) 4,6-Dinitro-o-cresol	6.801	198	13950	4.788	ug/ml#	85
77) NDPA/DPA	6.837	169	77644	5.088	ug/ml	96
78) Azobenzene	6.866	77	72737	5.396	ug/ml	96
80) 4-Bromophenyl phenyl e...	7.148	248	28027	4.858	ug/ml	99
81) Hexachlorobenzene	7.201	284	33472	5.073	ug/ml	98
82) Pentachlorophenol	7.384	266	13149	4.031	ug/ml	96
89) Phenanthrene	7.537	178	147905	5.037	ug/ml	96
90) Anthracene	7.584	178	149774	5.103	ug/ml	98
91) Carbazole	7.737	167	145534	5.156	ug/ml	98
92) Di-n-butylphthalate	8.078	149	168588	4.848	ug/ml	98
93) Fluoranthene	8.566	202	191297	4.959	ug/ml#	93
94) Benzidine	8.707	184	127849	5.134	ug/ml#	95
95) Pyrene	8.760	202	203060	5.178	ug/ml	96
97) Butyl benzyl phthalate	9.448	149	81565	4.699	ug/ml	97
105) Benzo(a)anthracene	10.030	228	212006	4.698	ug/ml	98
106) 3,3'-Dichlorobenzidine	10.036	252	81754	4.731	ug/ml	100
107) Chrysene	10.078	228	185730	5.036	ug/ml	98
108) Bis(2-ethylhexyl)phtha...	10.189	149	116110	4.696	ug/ml	99
109) Di-n-octylphthalate	11.130	149	209801	4.458	ug/ml	97
110) Benzo(b)fluoranthene	11.530	252	223015	4.754	ug/ml#	97
111) Benzo(k)fluoranthene	11.566	252	206205	5.097	ug/ml	94
112) Benzo(a)pyrene	12.007	252	192460	4.803	ug/ml	96
114) Indeno(1,2,3-cd)pyrene	13.760	276	190058	4.399	ug/mL	94
115) Dibenzo(a,h)anthracene	13.807	278	204290	4.742	ug/ml	96
116) Benzo(ghi)perylene	14.148	276	212903	4.876	ug/ml	93

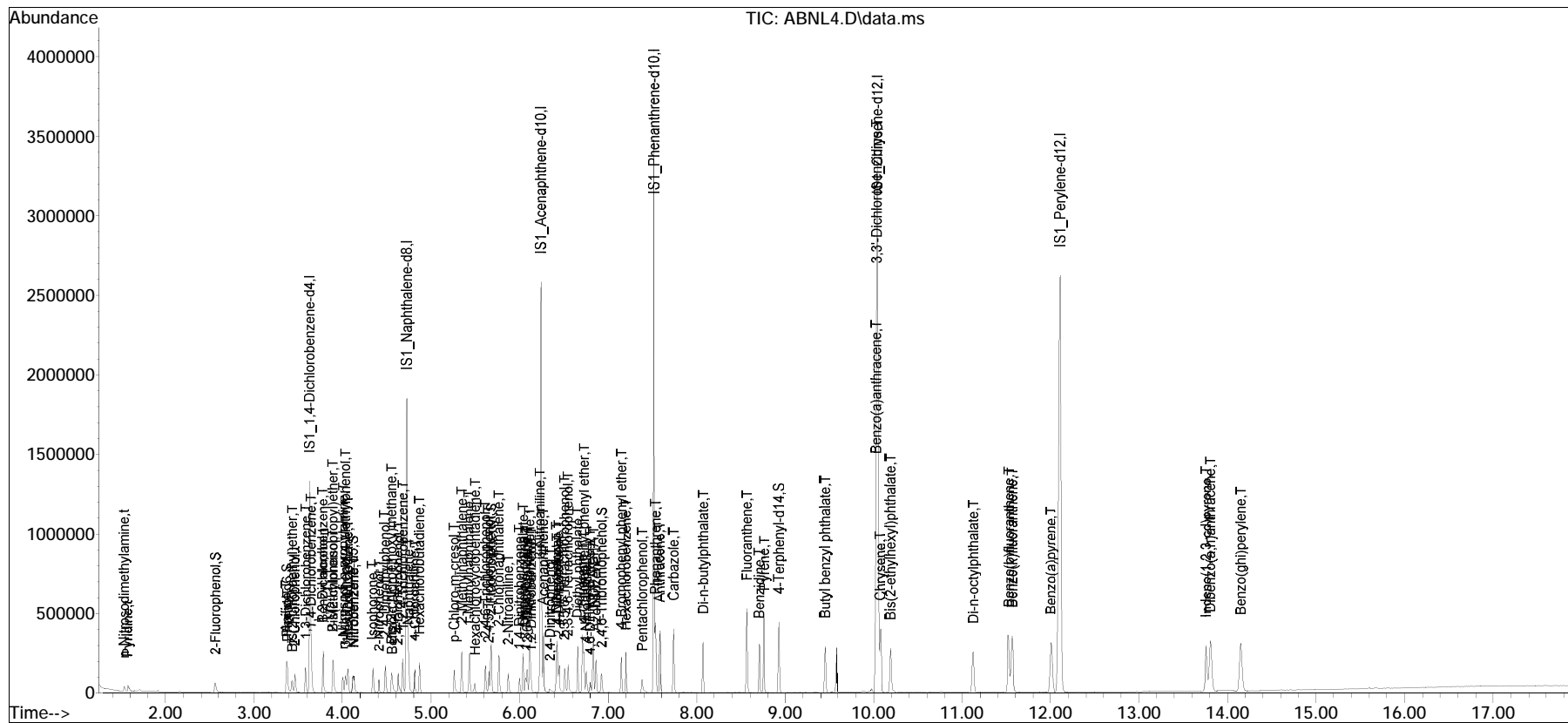
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL4.D
 Acq On : 21 Jul 2023 1:42 am
 Operator : JULIET: jg
 Sample : IL7,32,,ABNL5 Lot# 10136
 Misc : WG1806439,,
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 21 13:09:13 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistcal\ABNL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ABNL4.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 1:42 am Instrument : Juliet
Sample : IL7,32,,ABNL5 Lot# 10136 Quant Date : 7/21/2023 12:33 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL3.D
 Acq On : 21 Jul 2023 2:06 am
 Operator : JULIET: jg
 Sample : IL8,32,,ABNL3 Lot# 10137
 Misc : WG1806439,,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 21 13:03:50 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.631	152	239750	40.000	ug/ml	0.00
Standard Area 1 = 239757			Recovery =	100.00%		
35) IS1_Naphthalene-d8	4.725	136	900759	40.000	ug/ml	0.00
Standard Area 1 = 875703			Recovery =	102.86%		
63) IS1_Acenaphthene-d10	6.242	164	563621	40.000	ug/ml	0.00
Standard Area 1 = 526173			Recovery =	107.12%		
88) IS1_Phenanthrene-d10	7.519	188	1279518	40.000	ug/ml	0.00
Standard Area 1 = 1184116			Recovery =	108.06%		
104) IS1_Chrysene-d12	10.048	240	1380019	40.000	ug/ml	# 0.00
Standard Area 1 = 1226984			Recovery =	112.47%		
113) IS1_Perylene-d12	12.101	264	1656166	40.000	ug/ml	0.00
Standard Area 1 = 1421285			Recovery =	116.53%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.566	112	15894	2.604	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	5.21%#		
7) Phenol-d6	3.372	99	21687	2.741	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	5.48%#		
19) Nitrobenzene-d5	4.119	82	20176	2.877	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	11.51%#		
46) 2-Fluorobiphenyl	5.678	172	58842	3.070	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	12.28%#		
79) 2,4,6-Tribromophenol	6.931	330	9460	2.873	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	5.75%#		
96) 4-Terphenyl-d14	8.930	244	94863	2.978	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	11.91%#		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	1.537	74	10392	2.762	ug/ml#	82
3) Pyridine	1.584	79	16554	2.378	ug/ml#	73
5) Aniline	3.366	93	27557	2.652	ug/ml#	87
6) 2-Chlorophenol	3.466	128	21315	2.828	ug/ml	93
8) Phenol	3.384	94	23867	2.718	ug/ml#	88
9) Bis(2-chloroethyl)ether	3.431	93	16928	2.869	ug/ml	87
10) 1,3-Dichlorobenzene	3.584	146	25827	2.975	ug/ml	96
11) 1,4-Dichlorobenzene	3.648	146	25375	2.882	ug/ml	93
12) 1,2-Dichlorobenzene	3.778	146	24076	2.840	ug/ml	98
13) Benzyl alcohol	3.778	79	14842	2.687	ug/ml	91
14) Bis(2-chloroisopropyl)...	3.895	45	21310	3.022	ug/ml#	76

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL3.D
 Acq On : 21 Jul 2023 2:06 am
 Operator : JULIET: jg
 Sample : IL8,32,,ABNL3 Lot# 10137
 Misc : WG1806439,,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 21 13:03:50 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	3.895	108	18300	2.875	ug/ml	99
16) Hexachloroethane	4.060	117	8989	2.977	ug/ml#	82
17) n-Nitrosodi-n-propylamine	4.007	70	13129	2.914	ug/ml	99
18) 3-Methylphenol/4-Methy...	4.037	108	17926	2.759	ug/ml	94
20) Nitrobenzene	4.137	77	20314	3.019	ug/ml	94
21) Isophorone	4.343	82	37030	2.812	ug/ml	98
22) 2-Nitrophenol	4.413	139	11491	2.771	ug/ml	98
23) 2,4-Dimethylphenol	4.478	107	19893	2.720	ug/ml	97
24) Bis(2-chloroethoxy)met...	4.548	93	22128	2.897	ug/ml#	96
25) 2,4-Dichlorophenol	4.631	162	19916	2.821	ug/ml	95
26) 1,2,4-Trichlorobenzene	4.684	180	23640	3.004	ug/ml	95
36) Naphthalene	4.742	128	67889	3.006	ug/ml	98
37) Benzoic Acid	4.560	105	9583M1	2.809	ug/ml	
38) 4-Chloroaniline	4.813	65	6501	2.807	ug/ml	83
39) Hexachlorobutadiene	4.866	225	13539	2.870	ug/ml	96
40) p-Chloro-m-cresol	5.266	107	18152	2.750	ug/ml	98
41) 2-Methylnaphthalene	5.348	142	43767	2.869	ug/ml	98
42) 1-Methylnaphthalene	5.431	115	14533	2.926	ug/ml	89
43) Hexachlorocyclopentadiene	5.495	237	4354	11.216	ug/ml#	86
44) 2,4,6-Trichlorophenol	5.613	196	15117	2.687	ug/ml	99
45) 2,4,5-Trichlorophenol	5.648	196	18237	3.031	ug/ml	90
47) 2-Chloronaphthalene	5.766	162	49311	3.022	ug/ml	94
48) 2-Nitroaniline	5.872	138	15472	2.921	ug/ml	93
49) 1,4-Dinitrobenzene	6.007	168	6589	2.604	ug/ml	99
50) 1,3-Dinitrobenzene	6.072	168	8313	2.991	ug/ml	99
51) Dimethyl phthalate	6.042	163	60272	3.034	ug/ml	98
52) Acenaphthylene	6.113	152	80722	3.059	ug/ml	98
53) 2,6-Dinitrotoluene	6.089	165	11908	2.866	ug/ml#	82
54) 1,2-Dinitrobenzene	6.131	168	5000	2.911	ug/ml	95
64) 3-Nitroaniline	6.231	138	14777	2.951	ug/ml#	75
65) Acenaphthene	6.266	154	47120	3.004	ug/ml	97
66) 2,4-Dinitrophenol	6.354	184	2936	7.100	ug/ml	97
67) Dibenzofuran	6.419	168	73440	3.036	ug/ml	87
68) 2,4-Dinitrotoluene	6.442	165	18114	3.031	ug/ml	94
69) 4-Nitrophenol	6.431	65	8168	2.541	ug/ml#	67
70) 2,3,5,6-Tetrachlorophenol	6.513	232	14117	2.689	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	6.548	232	15182	2.790	ug/ml	99
72) Diethyl phthalate	6.654	149	61552	3.007	ug/ml	98
73) Fluorene	6.713	166	58619	2.945	ug/ml	99
74) 4-Chlorophenyl phenyl ...	6.731	204	28725	2.963	ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL3.D
 Acq On : 21 Jul 2023 2:06 am
 Operator : JULIET: jg
 Sample : IL8,32,,ABNL3 Lot# 10137
 Misc : WG1806439,,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 21 13:03:50 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	6.754	138	13936	3.058	ug/ml#	80
76) 4,6-Dinitro-o-cresol	6.801	198	7237	2.569	ug/ml#	89
77) NDPA/DPA	6.836	169	51719	3.082	ug/ml	98
78) Azobenzene	6.866	77	46488	3.137	ug/ml	96
80) 4-Bromophenyl phenyl e...	7.148	248	18668	2.943	ug/ml	96
81) Hexachlorobenzene	7.201	284	22005	3.034	ug/ml	98
82) Pentachlorophenol	7.383	266	6964	2.189	ug/ml	91
89) Phenanthrene	7.536	178	97793	3.017	ug/ml	97
90) Anthracene	7.583	178	96545	2.979	ug/ml	97
91) Carbazole	7.736	167	92154	2.957	ug/ml	98
92) Di-n-butylphthalate	8.078	149	109584	2.854	ug/ml	98
93) Fluoranthene	8.566	202	122656	2.880	ug/ml#	92
94) Benzidine	8.707	184	80362	2.923	ug/ml#	96
95) Pyrene	8.760	202	132918	3.070	ug/ml	95
97) Butyl benzyl phthalate	9.448	149	52055	2.716	ug/ml	98
105) Benzo(a)anthracene	10.036	228	137480	2.815	ug/ml	98
106) 3,3'-Dichlorobenzidine	10.036	252	53388	2.855	ug/ml	95
107) Chrysene	10.077	228	123085	3.084	ug/ml	96
108) Bis(2-ethylhexyl)phtha...	10.189	149	74871	2.799	ug/ml	99
109) Di-n-octylphthalate	11.124	149	131600	2.584	ug/ml	97
110) Benzo(b)fluoranthene	11.524	252	137784	2.714	ug/ml	98
111) Benzo(k)fluoranthene	11.566	252	134835	3.080	ug/ml#	92
112) Benzo(a)pyrene	12.013	252	121213	2.795	ug/ml	96
114) Indeno(1,2,3-cd)pyrene	13.760	276	118980	2.543	ug/mL	96
115) Dibenzo(a,h)anthracene	13.812	278	125634	2.693	ug/ml	97
116) Benzo(ghi)perylene	14.148	276	131889	2.789	ug/ml	95

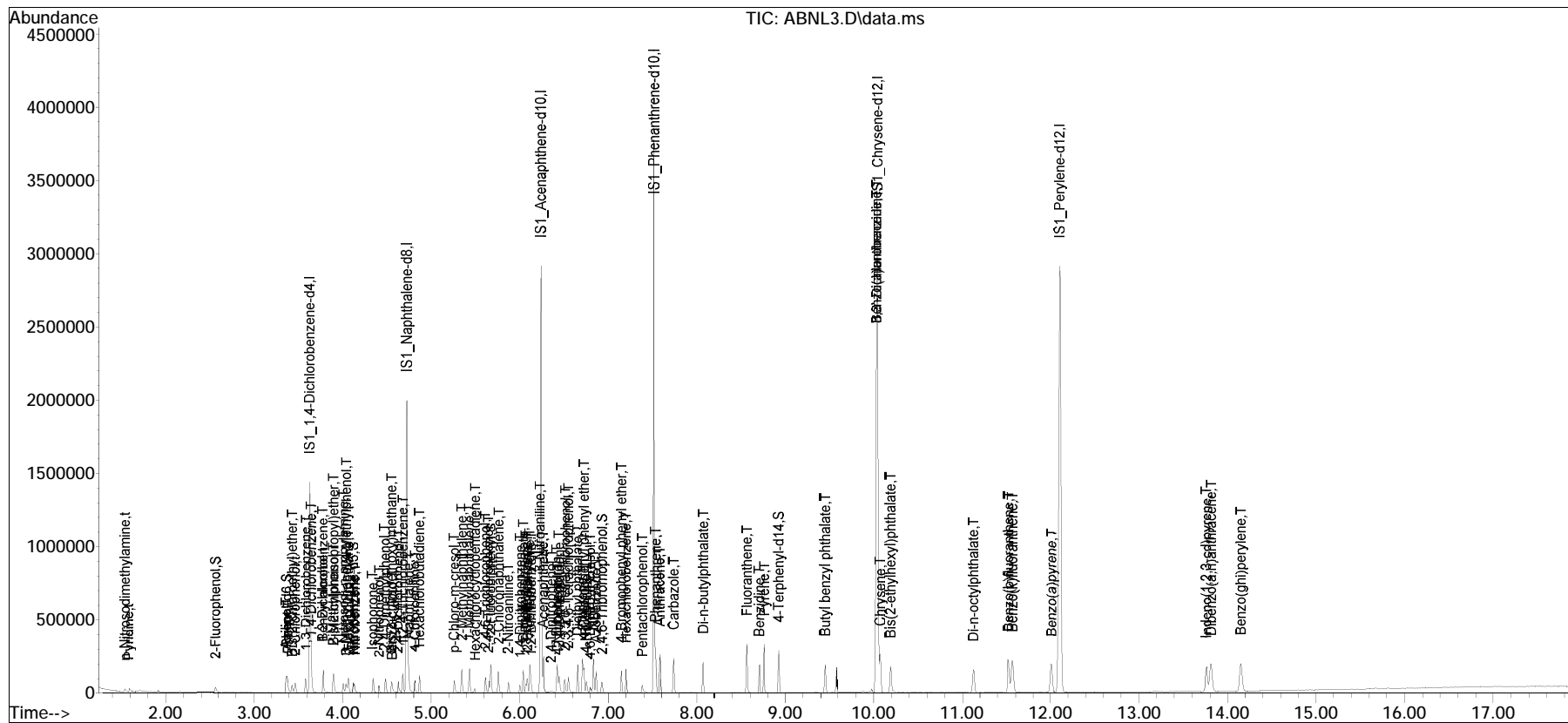
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL3.D
 Acq On : 21 Jul 2023 2:06 am
 Operator : JULIET: jg
 Sample : IL8,32,,ABNL3 Lot# 10137
 Misc : WG1806439,,
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 21 13:03:50 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

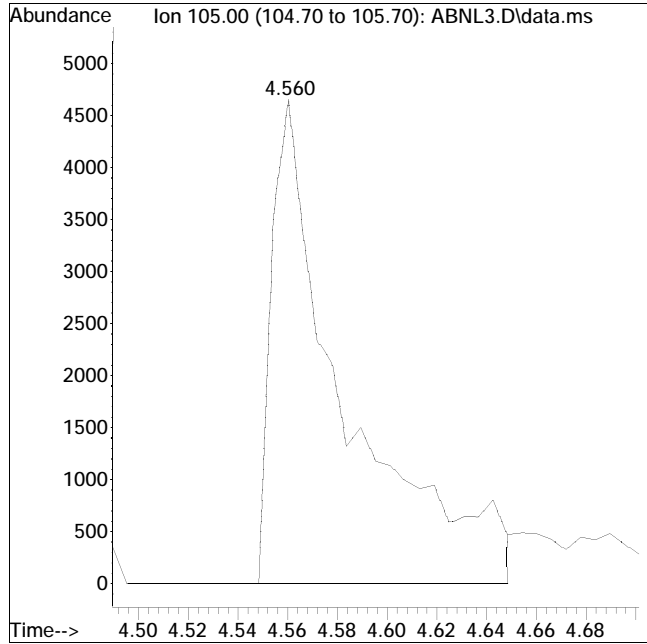
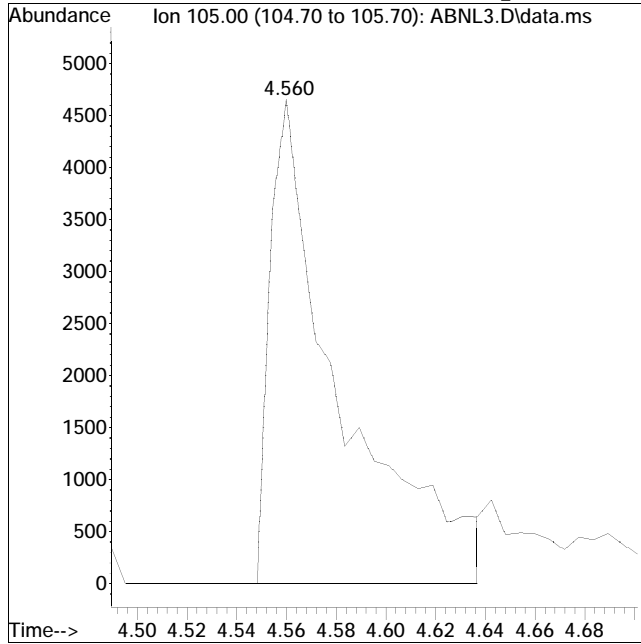
Sub List : ABNical - ABN ical sublistcal\ABNL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ABNL3.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 2:06 am Instrument : Juliet
Sample : IL8,32,,ABNL3 Lot# 10137 Quant Date : 7/21/2023 12:33 pm

Compound #37: Benzoic Acid



Original Peak Response = 9135

Manual Peak Response = 9583 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL2.D
 Acq On : 21 Jul 2023 2:30 am
 Operator : JULIET: jg
 Sample : IL9,32,,ABNL2 Lot# 10138
 Misc : WG1806439,,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 21 21:20:37 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) IS1_1,4-Dichlorobenzen...	3.631	152	233945	40.000	ug/ml	0.00	
Standard Area 1 = 239757			Recovery =	97.58%			
35) IS1_Naphthalene-d8	4.725	136	885665	40.000	ug/ml	0.00	
Standard Area 1 = 875703			Recovery =	101.14%			
63) IS1_Acenaphthene-d10	6.243	164	546774	40.000	ug/ml	0.00	
Standard Area 1 = 526173			Recovery =	103.92%			
88) IS1_Phenanthrene-d10	7.519	188	1232376	40.000	ug/ml	0.00	
Standard Area 1 = 1184116			Recovery =	104.08%			
104) IS1_Chrysene-d12	10.042	240	1321821	40.000	ug/ml	#-0.01	
Standard Area 1 = 1226984			Recovery =	107.73%			
113) IS1_Perylene-d12	12.107	264	1606716	40.000	ug/ml	0.00	
Standard Area 1 = 1421285			Recovery =	113.05%			
System Monitoring Compounds							
4) 2-Fluorophenol	2.572	112	10957	1.840	ug/ml	0.01	
Spiked Amount 50.000	Range 15 - 110		Recovery =	3.68%#			
7) Phenol-d6	3.372	99	14104	1.827	ug/ml	0.00	
Spiked Amount 50.000	Range 15 - 110		Recovery =	3.65%#			
19) Nitrobenzene-d5	4.119	82	13448	1.965	ug/ml	0.00	
Spiked Amount 25.000	Range 30 - 130		Recovery =	7.86%#			
46) 2-Fluorobiphenyl	5.678	172	38571	2.047	ug/ml	0.00	
Spiked Amount 25.000	Range 30 - 130		Recovery =	8.19%#			
79) 2,4,6-Tribromophenol	6.931	330	6311	1.976	ug/ml	0.00	
Spiked Amount 50.000	Range 15 - 110		Recovery =	3.95%#			
96) 4-Terphenyl-d14	8.931	244	62805	2.047	ug/ml	0.00	
Spiked Amount 25.000	Range 30 - 130		Recovery =	8.19%#			
Target Compounds							
							Qvalue
2) n-Nitrosodimethylamine	1.537	74	6681	1.820	ug/ml#		80
3) Pyridine	1.590	79	11671	1.718	ug/ml#		75
5) Aniline	3.366	93	17552	1.731	ug/ml#		86
6) 2-Chlorophenol	3.466	128	14433	1.963	ug/ml		94
8) Phenol	3.384	94	16798	1.961	ug/ml#		87
9) Bis(2-chloroethyl)ether	3.431	93	11721	2.036	ug/ml#		84
10) 1,3-Dichlorobenzene	3.584	146	16720	1.974	ug/ml		97
11) 1,4-Dichlorobenzene	3.649	146	17480	2.034	ug/ml#		94
12) 1,2-Dichlorobenzene	3.778	146	16902	2.044	ug/ml		95
13) Benzyl alcohol	3.784	79	9585	1.778	ug/ml		92
14) Bis(2-chloroisopropyl)...	3.896	45	13842	2.012	ug/ml#		72

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL2.D
 Acq On : 21 Jul 2023 2:30 am
 Operator : JULIET: jg
 Sample : IL9,32,,ABNL2 Lot# 10138
 Misc : WG1806439,,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 21 21:20:37 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	3.896	108	11974	1.928	ug/ml	97
16) Hexachloroethane	4.060	117	5772	1.959	ug/ml#	81
17) n-Nitrosodi-n-propylamine	4.007	70	8836	2.010	ug/ml#	92
18) 3-Methylphenol/4-Methy...	4.037	108	12239	1.930	ug/ml#	96
20) Nitrobenzene	4.137	77	13996	2.132	ug/ml	96
21) Isophorone	4.343	82	25214	1.962	ug/ml	98
22) 2-Nitrophenol	4.413	139	7594	1.877	ug/ml#	96
23) 2,4-Dimethylphenol	4.484	107	12419	1.740	ug/ml	96
24) Bis(2-chloroethoxy)met...	4.549	93	15474	2.076	ug/ml	99
25) 2,4-Dichlorophenol	4.631	162	13000	1.887	ug/ml#	94
26) 1,2,4-Trichlorobenzene	4.684	180	15441	2.011	ug/ml	97
36) Naphthalene	4.743	128	45732	2.060	ug/ml	99
37) Benzoic Acid	4.566	105	7247M1	2.416	ug/ml	
38) 4-Chloroaniline	4.813	65	4194	1.842	ug/ml	76
39) Hexachlorobutadiene	4.866	225	8931	1.925	ug/ml	98
40) p-Chloro-m-cresol	5.272	107	11727	1.807	ug/ml	98
41) 2-Methylnaphthalene	5.348	142	29578	1.972	ug/ml	98
42) 1-Methylnaphthalene	5.431	115	9765	2.000	ug/ml	86
43) Hexachlorocyclopentadiene	5.495	237	2148	10.805	ug/ml#	84
44) 2,4,6-Trichlorophenol	5.613	196	10450	1.889	ug/ml	95
45) 2,4,5-Trichlorophenol	5.654	196	11202	1.894	ug/ml	99
47) 2-Chloronaphthalene	5.766	162	32521	2.027	ug/ml	95
48) 2-Nitroaniline	5.872	138	9630	1.849	ug/ml	99
49) 1,4-Dinitrobenzene	6.007	168	3950	1.597	ug/ml	91
50) 1,3-Dinitrobenzene	6.072	168	5403	1.935	ug/ml	98
51) Dimethyl phthalate	6.043	163	39869	2.041	ug/ml#	97
52) Acenaphthylene	6.113	152	53995	2.081	ug/ml	97
53) 2,6-Dinitrotoluene	6.090	165	7949	1.946	ug/ml#	85
54) 1,2-Dinitrobenzene	6.131	168	3582	2.121	ug/ml	96
64) 3-Nitroaniline	6.231	138	9218	1.853	ug/ml#	58
65) Acenaphthene	6.266	154	33163	2.180	ug/ml	92
66) 2,4-Dinitrophenol	0.000		0	N.D.	d	
67) Dibenzofuran	6.419	168	48546	2.069	ug/ml	89
68) 2,4-Dinitrotoluene	6.442	165	11252	1.857	ug/ml#	86
69) 4-Nitrophenol	6.442	65	4243M2	1.346	ug/ml	
70) 2,3,5,6-Tetrachlorophenol	6.513	232	8741	1.716	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	6.548	232	9935	1.882	ug/ml	95
72) Diethyl phthalate	6.654	149	39885	2.008	ug/ml	98
73) Fluorene	6.713	166	38468	1.992	ug/ml	100
74) 4-Chlorophenyl phenyl ...	6.731	204	18222	1.938	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL2.D
 Acq On : 21 Jul 2023 2:30 am
 Operator : JULIET: jg
 Sample : IL9,32,,ABNL2 Lot# 10138
 Misc : WG1806439,,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 21 21:20:37 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	6.760	138	8337	1.886	ug/ml#	76
76) 4,6-Dinitro-o-cresol	6.801	198	4532	1.866	ug/ml#	88
77) NDPA/DPA	6.837	169	33409	2.052	ug/ml	97
78) Azobenzene	6.866	77	30598	2.128	ug/ml	95
80) 4-Bromophenyl phenyl e...	7.148	248	11478	1.865	ug/ml	96
81) Hexachlorobenzene	7.201	284	14757	2.097	ug/ml	100
82) Pentachlorophenol	7.384	266	4527	1.624	ug/ml	86
89) Phenanthrene	7.537	178	64916	2.079	ug/ml	98
90) Anthracene	7.584	178	64299	2.060	ug/ml	97
91) Carbazole	7.737	167	59587	1.985	ug/ml	98
92) Di-n-butylphthalate	8.078	149	70069	1.895	ug/ml	98
93) Fluoranthene	8.566	202	82938	2.022	ug/ml#	92
94) Benzidine	8.707	184	50799	1.918	ug/ml#	97
95) Pyrene	8.760	202	88066	2.112	ug/ml	95
97) Butyl benzyl phthalate	9.448	149	33961	1.840	ug/ml	97
105) Benzo(a)anthracene	10.036	228	93107	1.991	ug/ml	99
106) 3,3'-Dichlorobenzidine	10.036	252	33993	1.898	ug/ml#	97
107) Chrysene	10.078	228	79960	2.092	ug/ml	98
108) Bis(2-ethylhexyl)phtha...	10.189	149	48724	1.901	ug/ml#	98
109) Di-n-octylphthalate	11.125	149	84299	1.728	ug/ml	98
110) Benzo(b)fluoranthene	11.530	252	90685	1.865	ug/ml	98
111) Benzo(k)fluoranthene	11.566	252	90599	2.161	ug/ml#	93
112) Benzo(a)pyrene	12.013	252	79109	1.905	ug/ml	97
114) Indeno(1,2,3-cd)pyrene	13.760	276	76467	1.684	ug/mL	95
115) Dibenzo(a,h)anthracene	13.813	278	85984	1.899	ug/ml	95
116) Benzo(ghi)perylene	14.148	276	89563	1.952	ug/ml	94

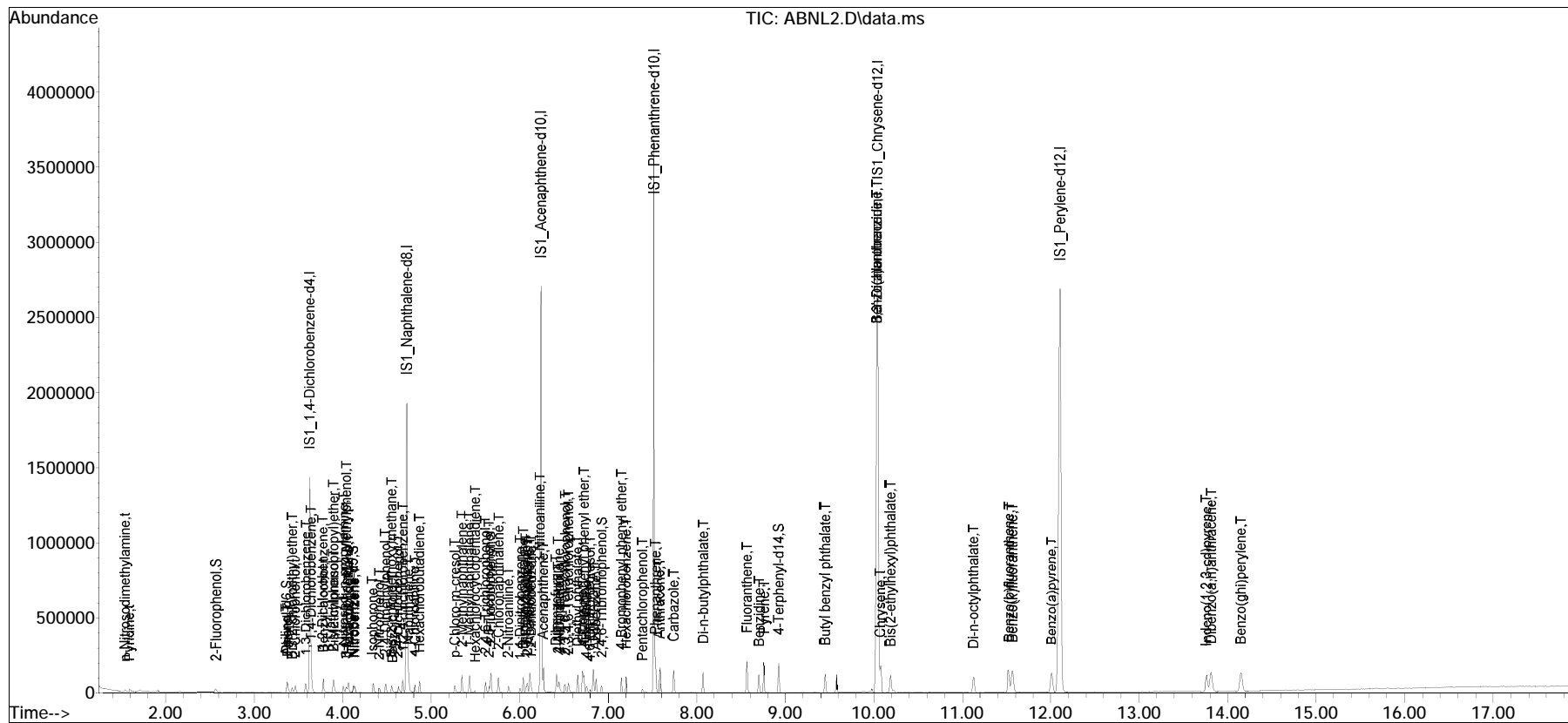
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL2.D
 Acq On : 21 Jul 2023 2:30 am
 Operator : JULIET: jg
 Sample : IL9,32,,ABNL2 Lot# 10138
 Misc : WG1806439,,
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 21 21:20:37 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

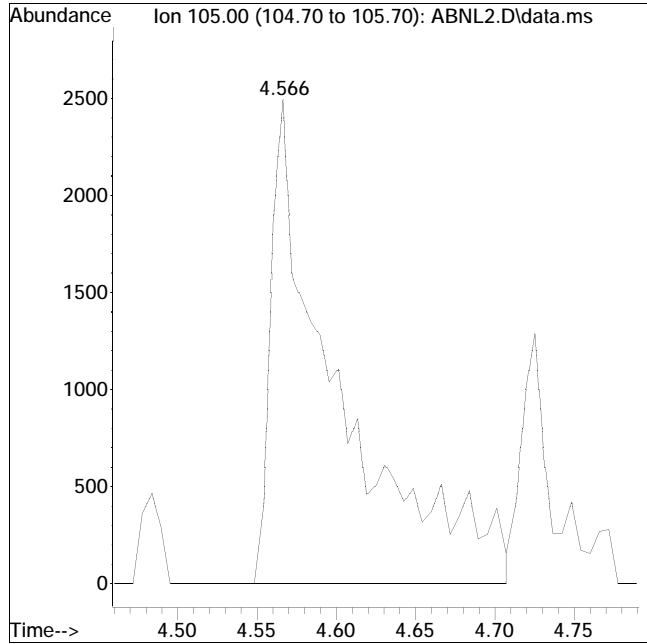
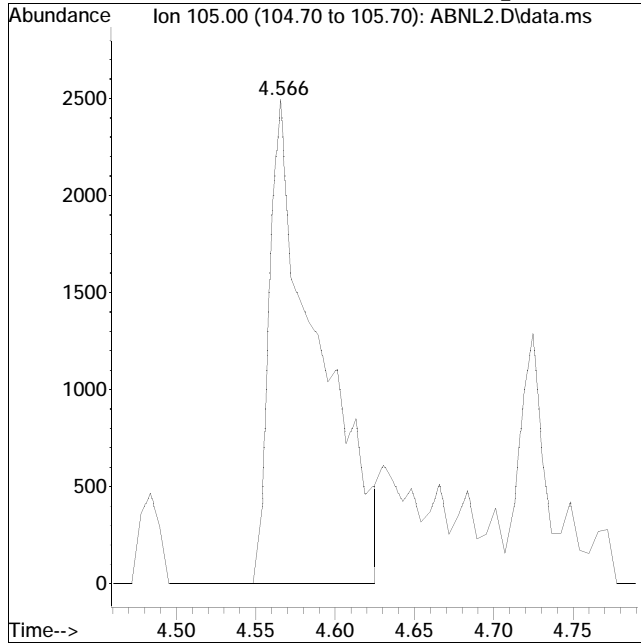
Sub List : ABNical - ABN ical sublistcal\ABNL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ABNL2.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 2:30 am Instrument : Juliet
Sample : IL9,32,,ABNL2 Lot# 10138 Quant Date : 7/21/2023 12:33 pm

Compound #37: Benzoic Acid



Original Peak Response = 5347

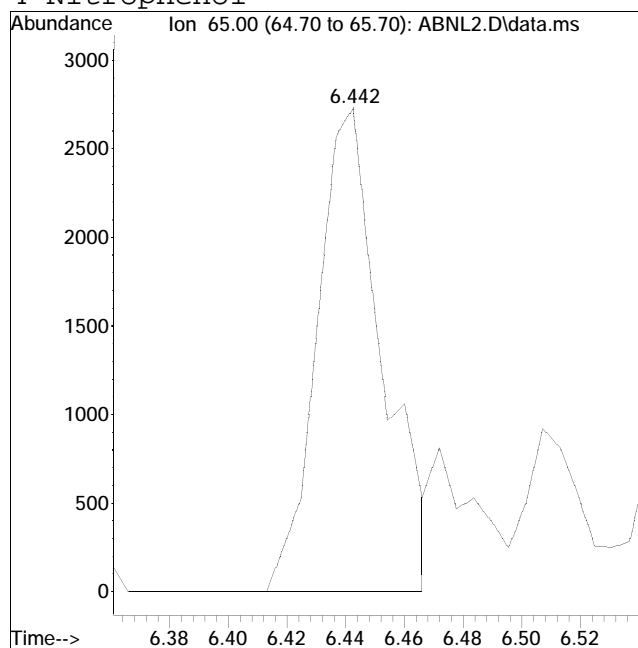
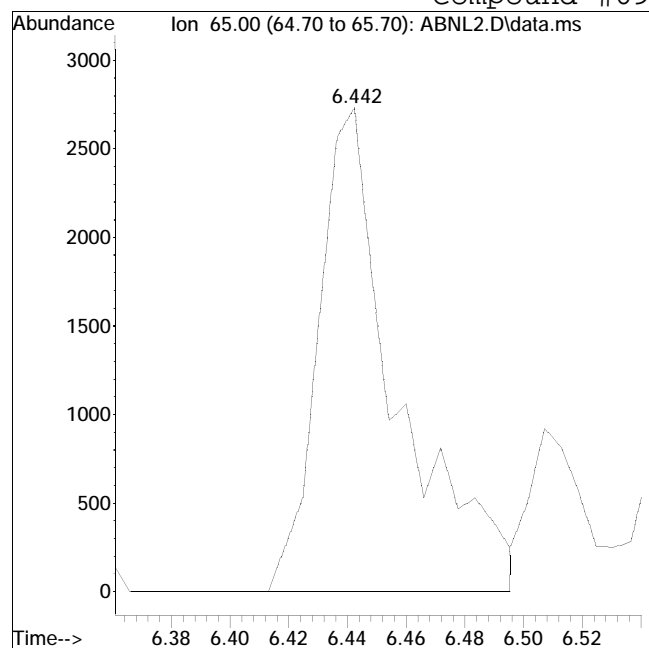
Manual Peak Response = 7247 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ABNL2.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 2:30 am Instrument : Juliet
Sample : IL9,32,,ABNL2 Lot# 10138 Quant Date : 7/21/2023 12:33 pm

Compound #69: 4-Nitrophenol



Original Peak Response = 5112

Manual Peak Response = 4243 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL1.D
 Acq On : 21 Jul 2023 2:53 am
 Operator : JULIET: jg
 Sample : IL10,32,,ABNL1 Lot# 10139
 Misc : WG1806439,,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 21 20:30:14 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.631	152	218756	40.000	ug/ml	0.00
Standard Area 1 = 239757			Recovery =	91.24%		
35) IS1_Naphthalene-d8	4.725	136	838060	40.000	ug/ml	0.00
Standard Area 1 = 875703			Recovery =	95.70%		
63) IS1_Acenaphthene-d10	6.242	164	521393	40.000	ug/ml	0.00
Standard Area 1 = 526173			Recovery =	99.09%		
88) IS1_Phenanthrene-d10	7.519	188	1169786	40.000	ug/ml	0.00
Standard Area 1 = 1184116			Recovery =	98.79%		
104) IS1_Chrysene-d12	10.042	240	1291454	40.000	ug/ml	#-0.01
Standard Area 1 = 1226984			Recovery =	105.25%		
113) IS1_Perylene-d12	12.101	264	1571671	40.000	ug/ml	0.00
Standard Area 1 = 1421285			Recovery =	110.58%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.572	112	4974	0.893	ug/ml	0.01
Spiked Amount 50.000	Range 15 - 110		Recovery =	1.79%#		
7) Phenol-d6	3.378	99	7108	0.985	ug/ml	0.01
Spiked Amount 50.000	Range 15 - 110		Recovery =	1.97%#		
19) Nitrobenzene-d5	4.125	82	6860	1.072	ug/ml	0.01
Spiked Amount 25.000	Range 30 - 130		Recovery =	4.29%#		
46) 2-Fluorobiphenyl	5.678	172	20938	1.174	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	4.70%#		
79) 2,4,6-Tribromophenol	6.931	330	3169	1.040	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	2.08%#		
96) 4-Terphenyl-d14	8.930	244	35230	1.210	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	4.84%#		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	1.543	74	3249	0.946	ug/ml#	58
3) Pyridine	1.607	79	5757	0.906	ug/ml#	58
5) Aniline	3.372	93	9876	1.042	ug/ml#	92
6) 2-Chlorophenol	3.466	128	7290	1.060	ug/ml	95
8) Phenol	3.390	94	8034	1.003	ug/ml#	86
9) Bis(2-chloroethyl)ether	3.437	93	6156	1.143	ug/ml#	81
10) 1,3-Dichlorobenzene	3.590	146	8771	1.107	ug/ml	95
11) 1,4-Dichlorobenzene	3.648	146	9277	1.155	ug/ml#	82
12) 1,2-Dichlorobenzene	3.778	146	8603	1.112	ug/ml	95
13) Benzyl alcohol	3.784	79	5200	1.032	ug/ml	94
14) Bis(2-chloroisopropyl)...	3.896	45	7172	1.115	ug/ml#	73

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL1.D
 Acq On : 21 Jul 2023 2:53 am
 Operator : JULIET: jg
 Sample : IL10,32,,ABNL1 Lot# 10139
 Misc : WG1806439,,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 21 20:30:14 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	3.896	108	5771	0.994	ug/ml#	90
16) Hexachloroethane	4.060	117	3130	1.136	ug/ml#	81
17) n-Nitrosodi-n-propylamine	4.013	70	4227	1.028	ug/ml#	63
18) 3-Methylphenol/4-Methy...	4.037	108	6071	1.024	ug/ml#	96
20) Nitrobenzene	4.137	77	6788	1.106	ug/ml#	92
21) Isophorone	4.348	82	13239	1.102	ug/ml#	94
22) 2-Nitrophenol	4.419	139	4034	1.066	ug/ml#	83
23) 2,4-Dimethylphenol	4.484	107	7374	1.105	ug/ml	91
24) Bis(2-chloroethoxy)met...	4.554	93	7957	1.142	ug/ml#	93
25) 2,4-Dichlorophenol	4.637	162	6773	1.051	ug/ml	96
26) 1,2,4-Trichlorobenzene	4.684	180	8152	1.135	ug/ml	94
36) Naphthalene	4.742	128	24523	1.167	ug/ml	98
37) Benzoic Acid	4.590	105	2001	1.489	ug/ml#	42
38) 4-Chloroaniline	4.819	65	2203	1.022	ug/ml	78
39) Hexachlorobutadiene	4.866	225	4819	1.098	ug/ml	98
40) p-Chloro-m-cresol	5.272	107	6091	0.992	ug/ml	94
41) 2-Methylnaphthalene	5.348	142	14772	1.041	ug/ml	92
42) 1-Methylnaphthalene	5.431	115	5020	1.086	ug/ml	92
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	5.613	196	5281	1.009	ug/ml	98
45) 2,4,5-Trichlorophenol	5.654	196	5544	0.990	ug/ml	87
47) 2-Chloronaphthalene	5.766	162	17458	1.150	ug/ml	98
48) 2-Nitroaniline	5.878	138	5308	1.077	ug/ml	94
49) 1,4-Dinitrobenzene	6.007	168	2349	1.013	ug/ml	91
50) 1,3-Dinitrobenzene	6.072	168	2722	0.973	ug/ml	99
51) Dimethyl phthalate	6.042	163	21199	1.147	ug/ml#	96
52) Acenaphthylene	6.113	152	29528	1.203	ug/ml	97
53) 2,6-Dinitrotoluene	6.089	165	4224	1.093	ug/ml#	80
54) 1,2-Dinitrobenzene	6.131	168	1887	1.181	ug/ml	91
64) 3-Nitroaniline	6.237	138	4834	0.962	ug/ml#	21
65) Acenaphthene	6.266	154	17062	1.176	ug/ml	98
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	6.419	168	25698	1.148	ug/ml#	73
68) 2,4-Dinitrotoluene	6.448	165	6113	0.958	ug/ml#	85
69) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,5,6-Tetrachlorophenol	6.513	232	4846	0.998	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	6.548	232	5652	1.123	ug/ml	95
72) Diethyl phthalate	6.654	149	22117	1.168	ug/ml	96
73) Fluorene	6.713	166	21380	1.161	ug/ml	97
74) 4-Chlorophenyl phenyl ...	6.731	204	10392	1.159	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL1.D
 Acq On : 21 Jul 2023 2:53 am
 Operator : JULIET: jg
 Sample : IL10,32,,ABNL1 Lot# 10139
 Misc : WG1806439,,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 21 20:30:14 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	6.760	138	4365	1.035	ug/ml#	89
76) 4,6-Dinitro-o-cresol	6.807	198	1336M6	0.982	ug/ml	
77) NDPA/DPA	6.836	169	18496	1.192	ug/ml	99
78) Azobenzene	6.866	77	16036	1.170	ug/ml	98
80) 4-Bromophenyl phenyl e...	7.148	248	6271	1.069	ug/ml	95
81) Hexachlorobenzene	7.201	284	7666	1.142	ug/ml	94
82) Pentachlorophenol	7.389	266	2070	1.027	ug/ml	90
89) Phenanthrene	7.536	178	35862	1.210	ug/ml	98
90) Anthracene	7.583	178	36123	1.219	ug/ml	97
91) Carbazole	7.736	167	33899	1.190	ug/ml	97
92) Di-n-butylphthalate	8.078	149	40544	1.155	ug/ml	98
93) Fluoranthene	8.566	202	46251	1.188	ug/ml#	93
94) Benzidine	8.707	184	28558	1.136	ug/ml#	97
95) Pyrene	8.760	202	50354	1.272	ug/ml	96
97) Butyl benzyl phthalate	9.448	149	18649	1.064	ug/ml	98
105) Benzo(a)anthracene	10.030	228	55064	1.205	ug/ml	98
106) 3,3'-Dichlorobenzidine	10.036	252	18993	1.085	ug/ml#	93
107) Chrysene	10.077	228	47325	1.267	ug/ml	97
108) Bis(2-ethylhexyl)phtha...	10.189	149	26952	1.077	ug/ml#	98
109) Di-n-octylphthalate	11.124	149	47157	0.990	ug/ml#	99
110) Benzo(b)fluoranthene	11.530	252	53188	1.120	ug/ml	98
111) Benzo(k)fluoranthene	11.571	252	50609	1.235	ug/ml#	94
112) Benzo(a)pyrene	12.007	252	46146	1.137	ug/ml	96
114) Indeno(1,2,3-cd)pyrene	13.760	276	45358	1.021	ug/mL	94
115) Dibenzo(a,h)anthracene	13.813	278	48937	1.105	ug/ml	94
116) Benzo(ghi)perylene	14.154	276	50068	1.116	ug/ml	95

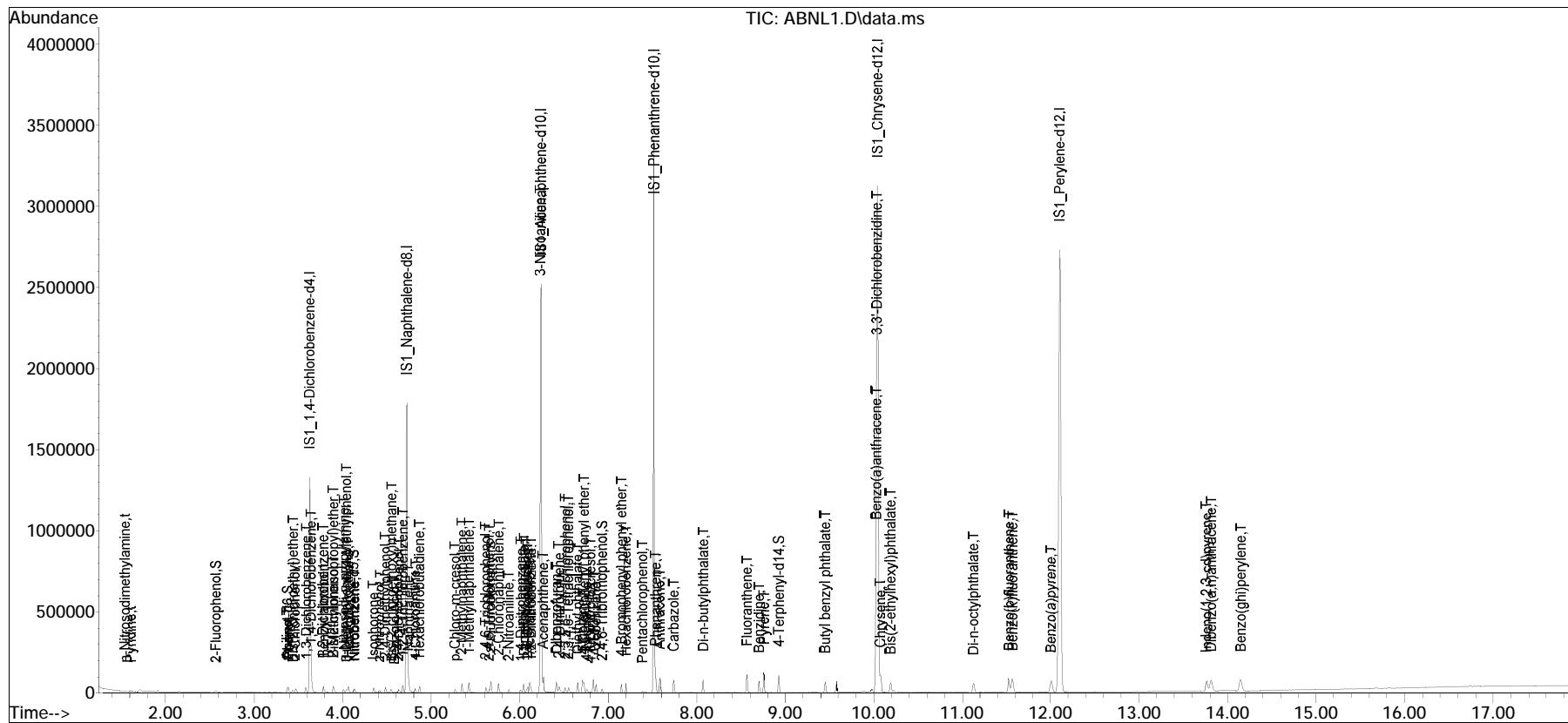
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNL1.D
 Acq On : 21 Jul 2023 2:53 am
 Operator : JULIET: jg
 Sample : IL10,32,,ABNL1 Lot# 10139
 Misc : WG1806439,,
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 21 20:30:14 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 12:31:52 2023
 Response via : Initial Calibration

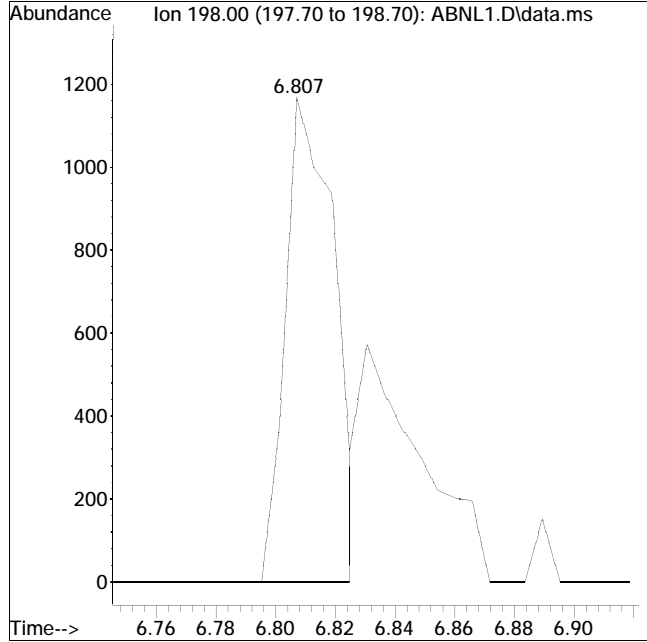
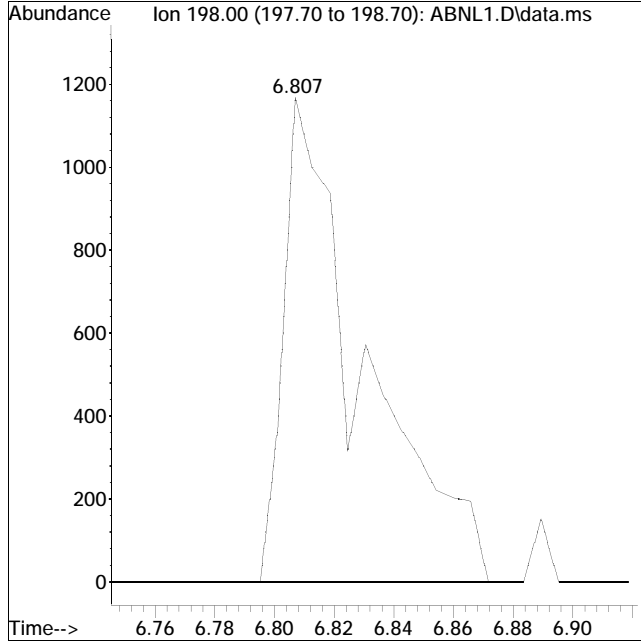
Sub List : ABNical - ABN ical sublistcal\ABNL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ABNL1.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 2:53 am Instrument : Juliet
Sample : IL10,32,,ABNL1 Lot# 10139 Quant Date : 7/21/2023 12:32 pm

Compound #76: 4,6-Dinitro-o-cresol



Original Peak Response = 2155

Manual Peak Response = 1336 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : AP9L10.D
 Acq On : 21 Jul 2023 3:17 am
 Operator : JULIET: jg
 Sample : IL11,32,,AP9L200 Lot# 10065
 Misc : WG1806439,,
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 21 14:03:01 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:58:44 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.631	152	255683	40.000	ug/ml	0.00
Standard Area 1 = 234375			Recovery	=	109.09%	
55) IS2_Naphthalene-d8	4.725	136	955464	40.000	ug/ml	0.00
Standard Area 1 = 865859			Recovery	=	110.35%	
83) IS2_Acenaphthene-d10	6.242	164	586048	40.000	ug/ml	0.00
Standard Area 1 = 524605			Recovery	=	111.71%	
98) IS2_Phenanthrene-d10	7.519	188	1165556	40.000	ug/ml	# 0.00
Standard Area 1 = 1149682			Recovery	=	101.38%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.260	105	743656	176.121	ug/ml	95
29) Acetophenone	3.990	105	2042391	204.010	ug/ml	96
30) m-Toluidine	4.060	106	1505866	188.600	ug/ml	99
31) 2-Chloroaniline	4.378	127	1903060	196.211	ug/ml	98
56) a-Terpineol	4.784	59	911957	198.902	ug/ml	90
57) 3-Chloroaniline	4.795	65	445958	178.379	ug/ml	91
58) 2,6-Dichlorophenol	4.819	162	1340852	188.788	ug/ml	95
59) 1-chloro-2-nitrobenzene	5.048	111	631207	202.815	ug/ml	94
60) Caprolactam	5.119	55	513337	198.844	ug/ml	89
61) 1,2,4,5-Tetrachloroben...	5.501	216	1723659	196.006	ug/ml	100
62) Biphenyl	5.760	154	3509480	180.591	ug/ml	95
84) Dichloran	7.266	206	697751	211.764	ug/ml	83
85) Pentachloronitrobenzene	7.389	237	573318	196.591	ug/ml	95
99) Diphenamid	8.331	167	3050961	208.138	ug/ml	87

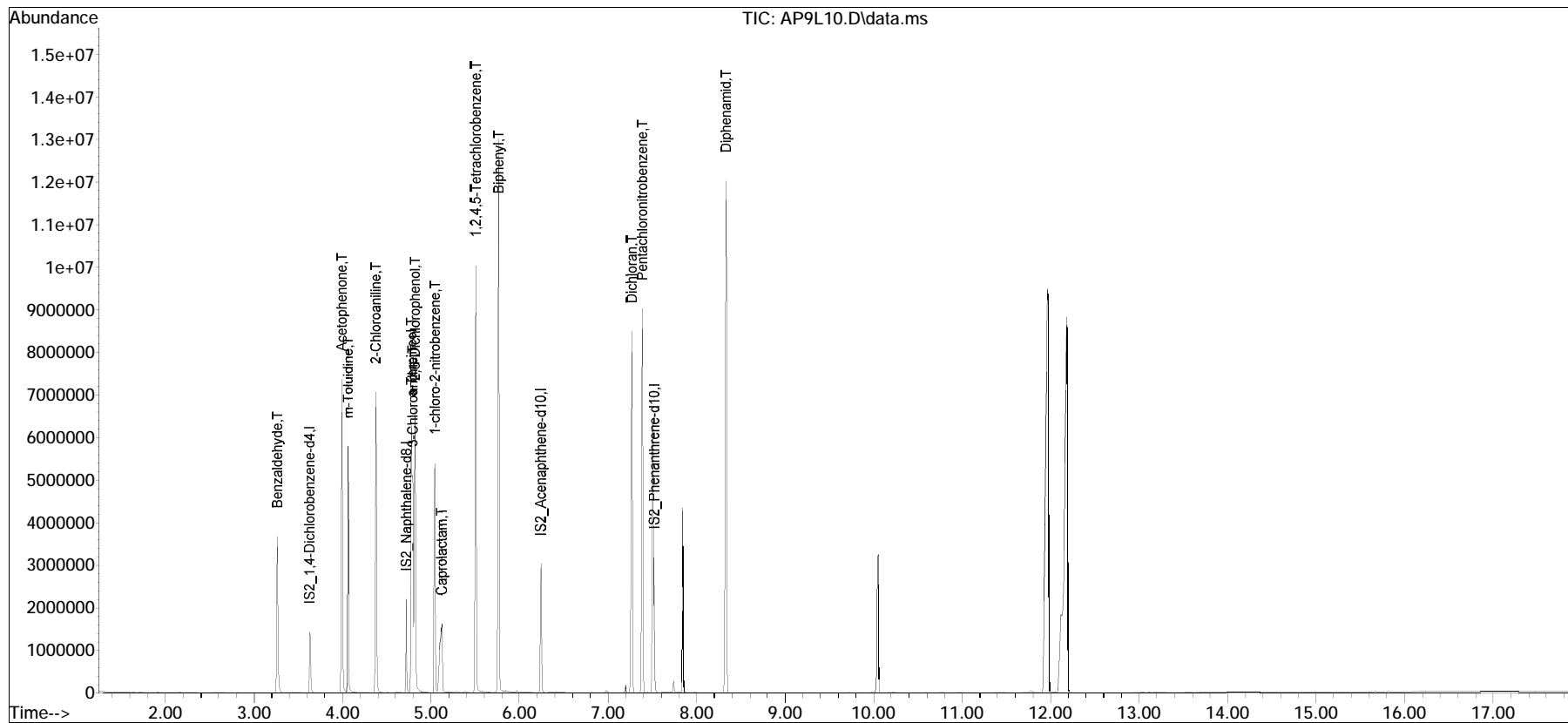
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : AP9L10.D
 Acq On : 21 Jul 2023 3:17 am
 Operator : JULIET: jg
 Sample : IL11,32,,AP9L200 Lot# 10065
 Misc : WG1806439,,
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 21 14:03:01 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:58:44 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : AP9L10.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 3:17 am Instrument : Juliet
Sample : IL11,32,,AP9L200 Lot# 1006Quant Date : 7/21/2023 1:59 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : AP9L9.D
 Acq On : 21 Jul 2023 3:41 am
 Operator : JULIET: jg
 Sample : IL12,32,,AP9L150 Lot# 10066
 Misc : WG1806439,,
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 21 14:09:33 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:58:44 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.631	152	264703	40.000	ug/ml	0.00
Standard Area 1 = 234375			Recovery	=	112.94%	
55) IS2_Naphthalene-d8	4.725	136	959430	40.000	ug/ml	0.00
Standard Area 1 = 865859			Recovery	=	110.81%	
83) IS2_Acenaphthene-d10	6.242	164	590909	40.000	ug/ml	0.00
Standard Area 1 = 524605			Recovery	=	112.64%	
98) IS2_Phenanthrene-d10	7.519	188	1196574	40.000	ug/ml	# 0.00
Standard Area 1 = 1149682			Recovery	=	104.08%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.260	105	515381	117.899	ug/ml	94
29) Acetophenone	3.990	105	1508133	145.511	ug/ml	95
30) m-Toluidine	4.060	106	1069803	129.421	ug/ml	99
31) 2-Chloroaniline	4.378	127	1410107	140.432	ug/ml	97
56) a-Terpineol	4.778	59	668055	145.103	ug/ml	92
57) 3-Chloroaniline	4.795	65	324107	129.104	ug/ml	89
58) 2,6-Dichlorophenol	4.819	162	984639	138.061	ug/ml	94
59) 1-chloro-2-nitrobenzene	5.042	111	451906	144.603	ug/ml	94
60) Caprolactam	5.113	55	367825	141.890	ug/ml	89
61) 1,2,4,5-Tetrachloroben...	5.501	216	1273669	144.237	ug/ml	99
62) Biphenyl	5.760	154	2668110	136.728	ug/ml	97
84) Dichloran	7.266	206	495827	149.243	ug/ml	84
85) Pentachloronitrobenzene	7.389	237	414491	140.960	ug/ml	95
99) Diphenamid	8.330	167	2238782	148.772	ug/ml	87

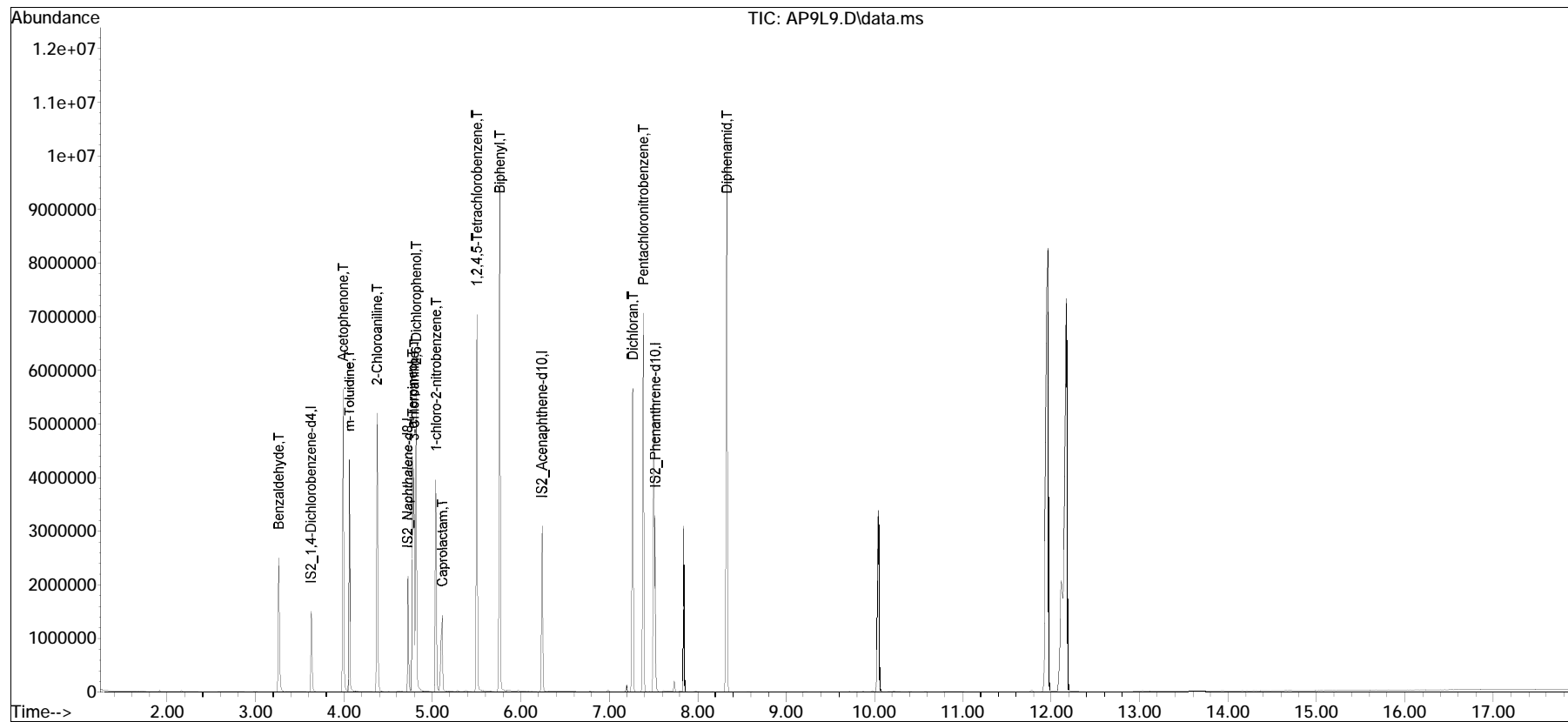
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : AP9L9.D
 Acq On : 21 Jul 2023 3:41 am
 Operator : JULIET: jg
 Sample : IL12,32,,AP9L150 Lot# 10066
 Misc : WG1806439,,
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 21 14:09:33 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:58:44 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : AP9L9.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 3:41 am Instrument : Juliet
Sample : IL12,32,,AP9L150 Lot# 1006Quant Date : 7/21/2023 2:00 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : AP9L8.D
 Acq On : 21 Jul 2023 4:04 am
 Operator : JULIET: jg
 Sample : IL13,32,,AP9L100 Lot# 10067
 Misc : WG1806439,,
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 21 14:08:37 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:58:44 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.631	152	253389	40.000	ug/ml	0.00
Standard Area 1 = 234375			Recovery	=	108.11%	
55) IS2_Naphthalene-d8	4.725	136	945184	40.000	ug/ml	0.00
Standard Area 1 = 865859			Recovery	=	109.16%	
83) IS2_Acenaphthene-d10	6.242	164	569569	40.000	ug/ml	0.00
Standard Area 1 = 524605			Recovery	=	108.57%	
98) IS2_Phenanthrene-d10	7.519	188	1210583	40.000	ug/ml	# 0.00
Standard Area 1 = 1149682			Recovery	=	105.30%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.260	105	381252	91.110	ug/ml	94
29) Acetophenone	3.990	105	1004637	101.259	ug/ml	95
30) m-Toluidine	4.060	106	751750	95.004	ug/ml	98
31) 2-Chloroaniline	4.378	127	965812	100.479	ug/ml	98
56) a-Terpineol	4.778	59	450086	99.233	ug/ml	91
57) 3-Chloroaniline	4.795	65	228331	92.324	ug/ml	86
58) 2,6-Dichlorophenol	4.819	162	672812	95.760	ug/ml	95
59) 1-chloro-2-nitrobenzene	5.042	111	302839	98.364	ug/ml	94
60) Caprolactam	5.101	55	252866	99.014	ug/ml	90
61) 1,2,4,5-Tetrachloroben...	5.501	216	866223	99.574	ug/ml	99
62) Biphenyl	5.760	154	1836512	95.531	ug/ml	98
84) Dichloran	7.260	206	329730	102.967	ug/ml	83
85) Pentachloronitrobenzene	7.389	237	277948	98.066	ug/ml	97
99) Diphenamid	8.325	167	1543717	101.396	ug/ml	87

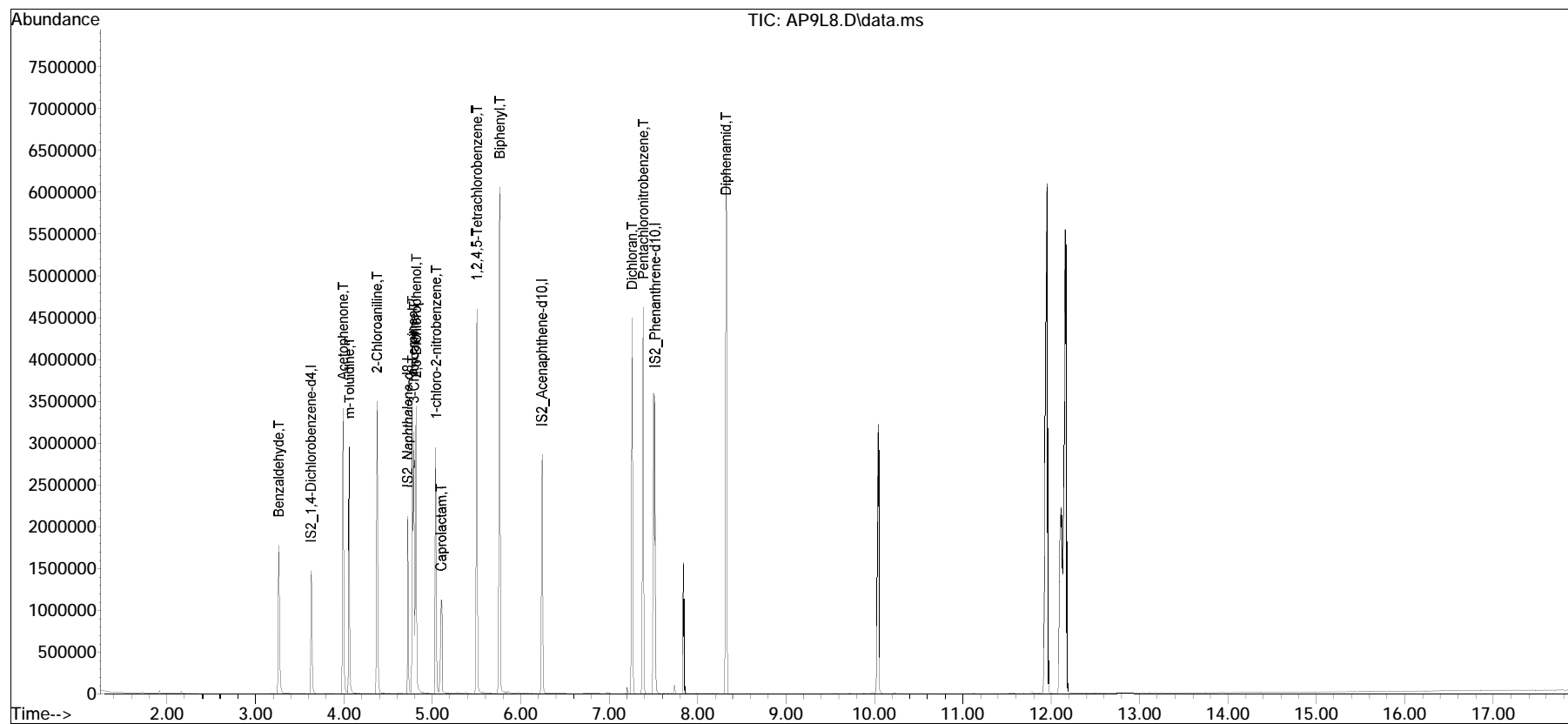
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : AP9L8.D
 Acq On : 21 Jul 2023 4:04 am
 Operator : JULIET: jg
 Sample : IL13,32,,AP9L100 Lot# 10067
 Misc : WG1806439,,
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 21 14:08:37 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:58:44 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : AP9L8.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 4:04 am Instrument : Juliet
Sample : IL13,32,,AP9L100 Lot# 1006Quant Date : 7/21/2023 2:00 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : AP9L7.D
 Acq On : 21 Jul 2023 4:28 am
 Operator : JULIET: jg
 Sample : IL14,32,,AP9L50 Lot# 10068
 Misc : WG1806439,,
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 21 13:58:18 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:58:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.631	152	234375	40.000	ug/ml	0.00
Standard Area 1 = 234375			Recovery	=	100.00%	
55) IS2_Naphthalene-d8	4.725	136	865859	40.000	ug/ml	0.00
Standard Area 1 = 865859			Recovery	=	100.00%	
83) IS2_Acenaphthene-d10	6.242	164	524605	40.000	ug/ml	0.00
Standard Area 1 = 524605			Recovery	=	100.00%	
98) IS2_Phenanthrene-d10	7.519	188	1149682	40.000	ug/ml	# 0.00
Standard Area 1 = 1149682			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.266	105	193527	50.080	ug/ml	95
29) Acetophenone	3.990	105	458846	50.080	ug/ml	95
30) m-Toluidine	4.060	106	365951	50.080	ug/ml	97
31) 2-Chloroaniline	4.378	127	444538	50.103	ug/ml	97
56) a-Terpineol	4.772	59	207749	50.000	ug/ml	92
57) 3-Chloroaniline	4.795	65	113280	50.000	ug/ml	86
58) 2,6-Dichlorophenol	4.813	162	321817	50.000	ug/ml	95
59) 1-chloro-2-nitrobenzene	5.042	111	141018	50.000	ug/ml	94
60) Caprolactam	5.089	55	116975	50.000	ug/ml	92
61) 1,2,4,5-Tetrachloroben...	5.501	216	398460	50.000	ug/ml	99
62) Biphenyl	5.754	154	880540	50.000	ug/ml	100
84) Dichloran	7.260	206	147475	50.000	ug/ml	84
85) Pentachloronitrobenzene	7.389	237	130527	50.000	ug/ml	95
99) Diphenamid	8.325	167	722935	50.000	ug/ml	87

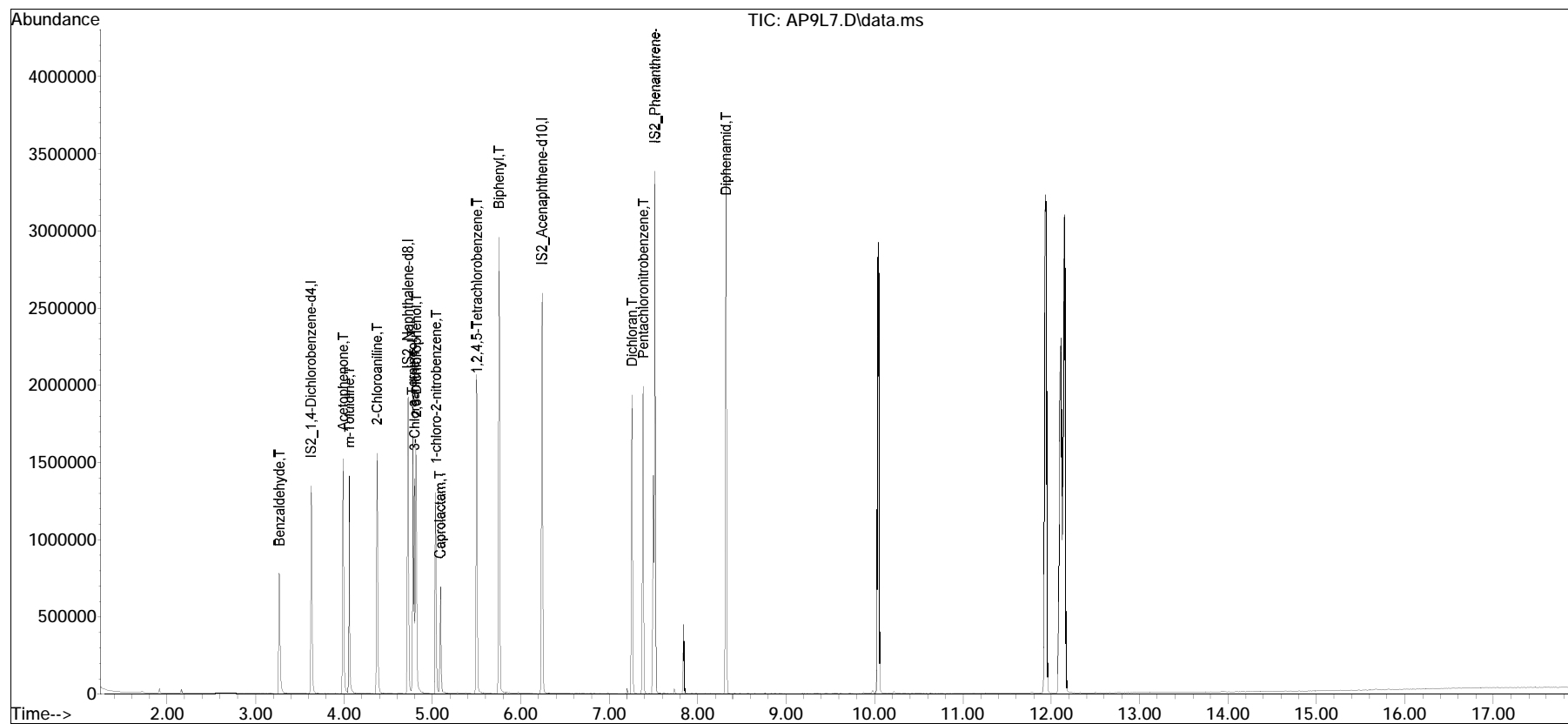
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : AP9L7.D
Acq On : 21 Jul 2023 4:28 am
Operator : JULIET: jg
Sample : IL14,32,,AP9L50 Lot# 10068
Misc : WG1806439,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 21 13:58:18 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 13:58:01 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : AP9L7.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 4:28 am Instrument : Juliet
Sample : IL14,32,,AP9L50 Lot# 10068Quant Date : 7/21/2023 1:58 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : AP9L6.D
 Acq On : 21 Jul 2023 4:52 am
 Operator : JULIET: jg
 Sample : IL15,32,,AP9L20 Lot# 10069
 Misc : WG1806439,,
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 21 14:07:04 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:58:44 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.631	152	247977	40.000	ug/ml	0.00
Standard Area 1 = 234375			Recovery	=	105.80%	
55) IS2_Naphthalene-d8	4.725	136	916217	40.000	ug/ml	0.00
Standard Area 1 = 865859			Recovery	=	105.82%	
83) IS2_Acenaphthene-d10	6.242	164	565037	40.000	ug/ml	0.00
Standard Area 1 = 524605			Recovery	=	107.71%	
98) IS2_Phenanthrene-d10	7.519	188	1263015	40.000	ug/ml	# 0.00
Standard Area 1 = 1149682			Recovery	=	109.86%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.266	105	94917	23.178	ug/ml	93
29) Acetophenone	3.990	105	190700	19.641	ug/ml	94
30) m-Toluidine	4.060	106	170267	21.988	ug/ml	97
31) 2-Chloroaniline	4.378	127	187319	19.913	ug/ml	97
56) a-Terpineol	4.772	59	87496	19.901	ug/ml	92
57) 3-Chloroaniline	4.795	65	48372	20.177	ug/ml	79
58) 2,6-Dichlorophenol	4.813	162	137419	20.177	ug/ml	94
59) 1-chloro-2-nitrobenzene	5.042	111	59947	20.087	ug/ml	94
60) Caprolactam	5.084	55	49280	19.907	ug/ml#	89
61) 1,2,4,5-Tetrachloroben...	5.501	216	172763	20.487	ug/ml	98
62) Biphenyl	5.754	154	385456	20.684	ug/ml	99
84) Dichloran	7.260	206	60096	18.917	ug/ml	87
85) Pentachloronitrobenzene	7.389	237	54889	19.521	ug/ml	97
99) Diphenamid	8.325	167	311743	19.626	ug/ml	88

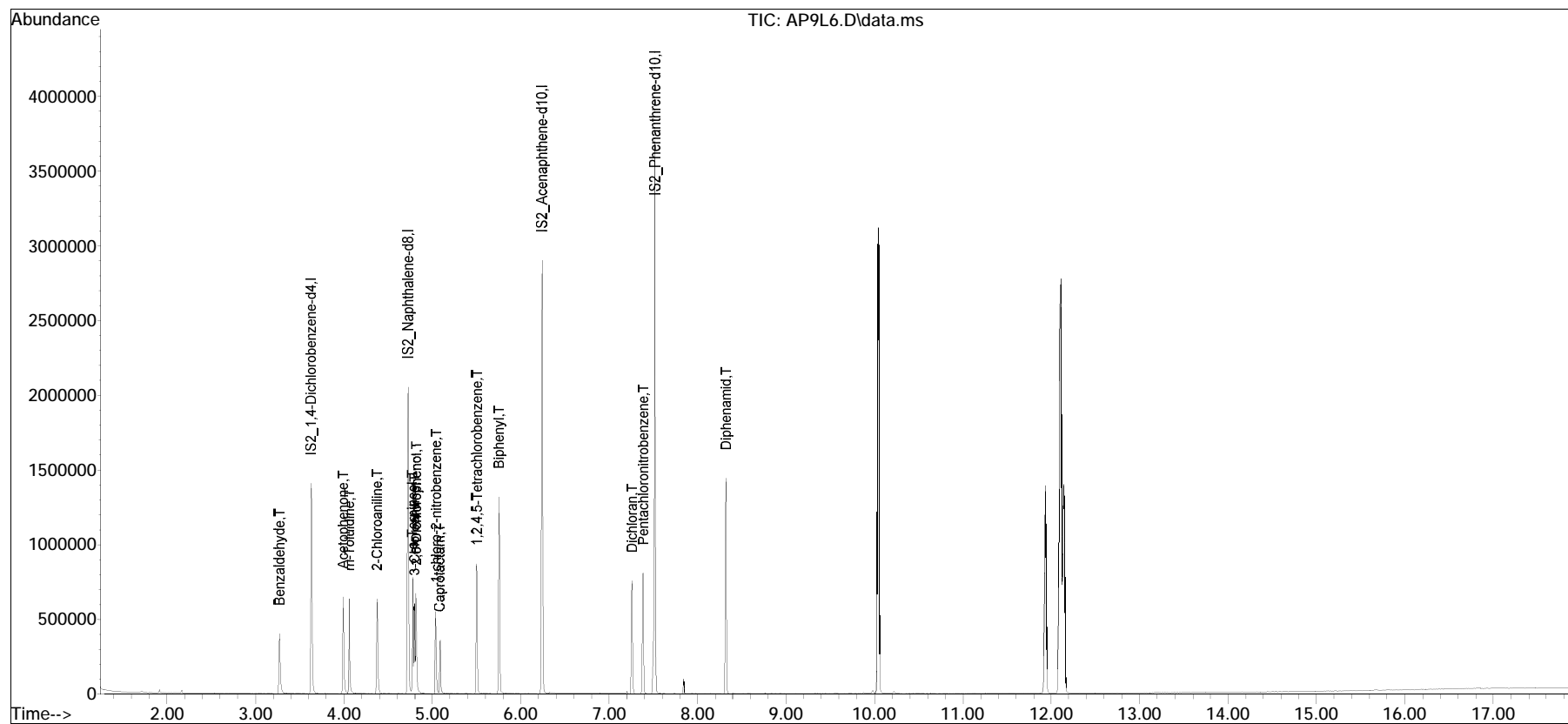
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : AP9L6.D
Acq On : 21 Jul 2023 4:52 am
Operator : JULIET: jg
Sample : IL15,32,,AP9L20 Lot# 10069
Misc : WG1806439,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 21 14:07:04 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 13:58:44 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : AP9L6.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 4:52 am Instrument : Juliet
Sample : IL15,32,,AP9L20 Lot# 10069 Quant Date : 7/21/2023 2:00 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : AP9L5.D
 Acq On : 21 Jul 2023 5:16 am
 Operator : JULIET: jg
 Sample : IL16,32,,AP9L10 Lot# 10070
 Misc : WG1806439,,
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 21 14:06:28 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:58:44 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.631	152	229359	40.000	ug/ml	0.00
Standard Area 1 = 234375			Recovery =	97.86%		
55) IS2_Naphthalene-d8	4.725	136	854631	40.000	ug/ml	0.00
Standard Area 1 = 865859			Recovery =	98.70%		
83) IS2_Acenaphthene-d10	6.242	164	520473	40.000	ug/ml	0.00
Standard Area 1 = 524605			Recovery =	99.21%		
98) IS2_Phenanthrene-d10	7.519	188	1177224	40.000	ug/ml	# 0.00
Standard Area 1 = 1149682			Recovery =	102.40%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.266	105	46445	12.262	ug/ml	95
29) Acetophenone	3.990	105	86927	9.680	ug/ml	95
30) m-Toluidine	4.060	106	79354	11.079	ug/ml	97
31) 2-Chloroaniline	4.378	127	87388	10.044	ug/ml	97
56) a-Terpineol	4.772	59	40116	9.782	ug/ml	91
57) 3-Chloroaniline	4.795	65	22618	10.114	ug/ml	84
58) 2,6-Dichlorophenol	4.813	162	62206	9.792	ug/ml	95
59) 1-chloro-2-nitrobenzene	5.042	111	28200	10.130	ug/ml	95
60) Caprolactam	5.084	55	23395	10.131	ug/ml	95
61) 1,2,4,5-Tetrachloroben...	5.501	216	77305	9.828	ug/ml	99
62) Biphenyl	5.754	154	180736	10.398	ug/ml	99
84) Dichloran	7.260	206	26782	9.152	ug/ml	90
85) Pentachloronitrobenzene	7.389	237	24981	9.645	ug/ml	98
99) Diphenamid	8.325	167	144698	9.774	ug/ml	89

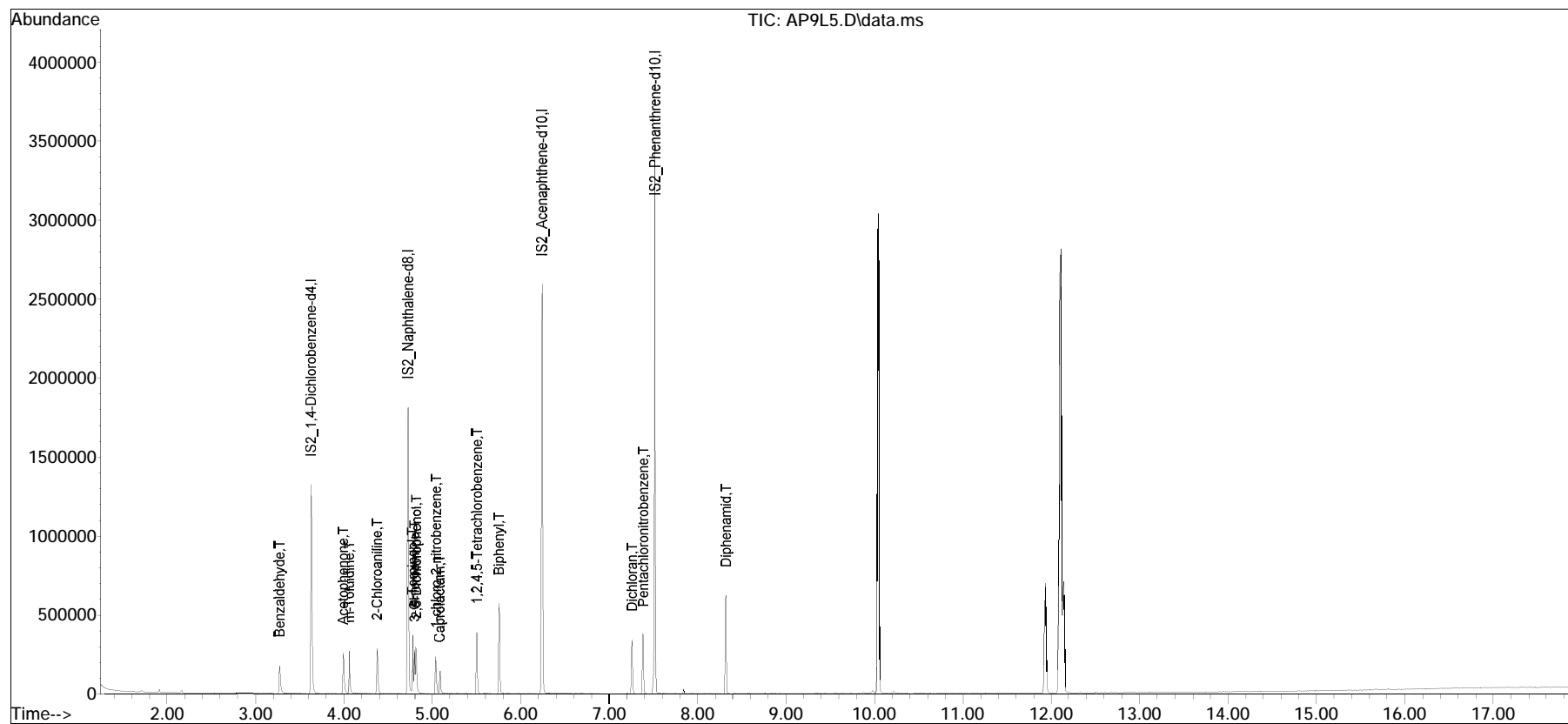
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : AP9L5.D
Acq On : 21 Jul 2023 5:16 am
Operator : JULIET: jg
Sample : IL16,32,,AP9L10 Lot# 10070
Misc : WG1806439,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 21 14:06:28 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 13:58:44 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : AP9L5.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 5:16 am Instrument : Juliet
Sample : IL16,32,,AP9L10 Lot# 10070Quant Date : 7/21/2023 2:00 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : AP9L4.D
 Acq On : 21 Jul 2023 5:39 am
 Operator : JULIET: jg
 Sample : IL17,32,,AP9L5 Lot# 10071
 Misc : WG1806439,,
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 21 14:05:41 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:58:44 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.631	152	237409	40.000	ug/ml	0.00
Standard Area 1 = 234375			Recovery	=	101.29%	
55) IS2_Naphthalene-d8	4.725	136	891160	40.000	ug/ml	0.00
Standard Area 1 = 865859			Recovery	=	102.92%	
83) IS2_Acenaphthene-d10	6.242	164	546622	40.000	ug/ml	0.00
Standard Area 1 = 524605			Recovery	=	104.20%	
98) IS2_Phenanthrene-d10	7.519	188	1226614	40.000	ug/ml	# 0.00
Standard Area 1 = 1149682			Recovery	=	106.69%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.272	105	23799	6.070	ug/ml	94
29) Acetophenone	3.995	105	44035	4.737	ug/ml	96
30) m-Toluidine	4.066	106	43417	5.856	ug/ml	92
31) 2-Chloroaniline	4.378	127	45517	5.054	ug/ml	96
56) a-Terpineol	4.772	59	20881	4.883	ug/ml	87
57) 3-Chloroaniline	4.795	65	11806	5.063	ug/ml	81
58) 2,6-Dichlorophenol	4.819	162	32200	4.861	ug/ml#	92
59) 1-chloro-2-nitrobenzene	5.042	111	14553	5.013	ug/ml	96
60) Caprolactam	5.084	55	12076	5.015	ug/ml	92
61) 1,2,4,5-Tetrachloroben...	5.501	216	41558	5.067	ug/ml	97
62) Biphenyl	5.754	154	94755	5.228	ug/ml	99
84) Dichloran	7.260	206	13329	4.337	ug/ml	90
85) Pentachloronitrobenzene	7.389	237	12355	4.542	ug/ml	98
99) Diphenamid	8.325	167	73397	4.758	ug/ml	88

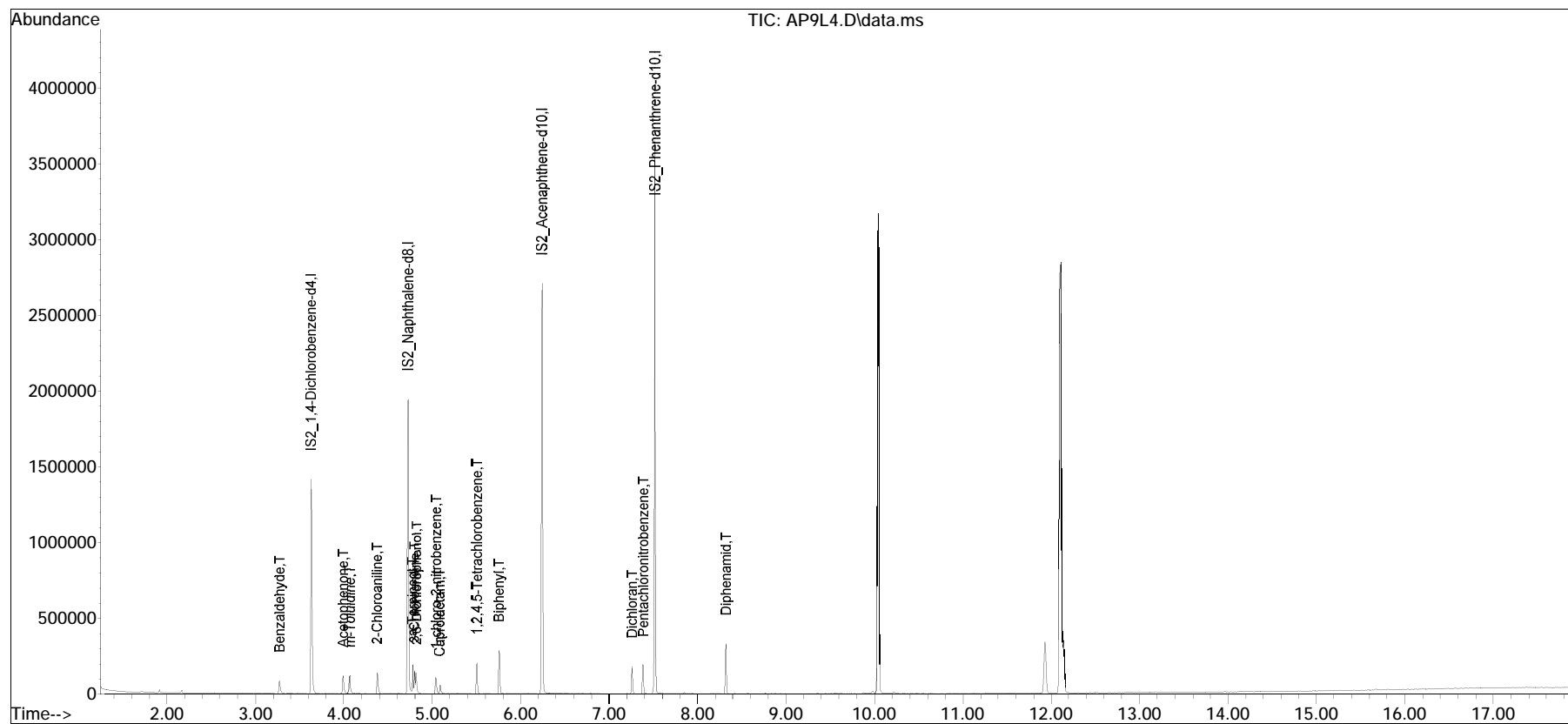
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : AP9L4.D
Acq On : 21 Jul 2023 5:39 am
Operator : JULIET: jg
Sample : IL17,32,,AP9L5 Lot# 10071
Misc : WG1806439,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 21 14:05:41 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 13:58:44 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : AP9L4.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 5:39 am Instrument : Juliet
Sample : IL17,32,,AP9L5 Lot# 10071 Quant Date : 7/21/2023 1:59 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : AP9L3.D
 Acq On : 21 Jul 2023 6:03 am
 Operator : JULIET: jg
 Sample : IL18,32,,AP9L3 Lot# 10072
 Misc : WG1806439,,
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 21 14:04:51 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:58:44 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.631	152	229736	40.000	ug/ml	0.00
Standard Area 1 = 234375			Recovery	=	98.02%	
55) IS2_Naphthalene-d8	4.725	136	880246	40.000	ug/ml	0.00
Standard Area 1 = 865859			Recovery	=	101.66%	
83) IS2_Acenaphthene-d10	6.242	164	542358	40.000	ug/ml	0.00
Standard Area 1 = 524605			Recovery	=	103.38%	
98) IS2_Phenanthrene-d10	7.519	188	1232033	40.000	ug/ml	# 0.00
Standard Area 1 = 1149682			Recovery	=	107.16%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.272	105	13770	3.629	ug/ml	100
29) Acetophenone	3.996	105	24528	2.727	ug/ml#	92
30) m-Toluidine	4.066	106	24157	3.367	ug/ml	95
31) 2-Chloroaniline	4.378	127	26309	3.019	ug/ml	94
56) a-Terpineol	4.772	59	12248	2.900	ug/ml	97
57) 3-Chloroaniline	4.796	65	6765	2.937	ug/ml	83
58) 2,6-Dichlorophenol	4.819	162	18169	2.777	ug/ml	92
59) 1-chloro-2-nitrobenzene	5.048	111	8312	2.899	ug/ml	99
60) Caprolactam	5.090	55	7348	3.090	ug/ml	97
61) 1,2,4,5-Tetrachloroben...	5.501	216	23743	2.931	ug/ml	98
62) Biphenyl	5.760	154	55531	3.102	ug/ml	99
84) Dichloran	7.260	206	7638	2.505	ug/ml	93
85) Pentachloronitrobenzene	7.384	237	7410	2.746	ug/ml	97
99) Diphenamid	8.325	167	42392	2.736	ug/ml	88

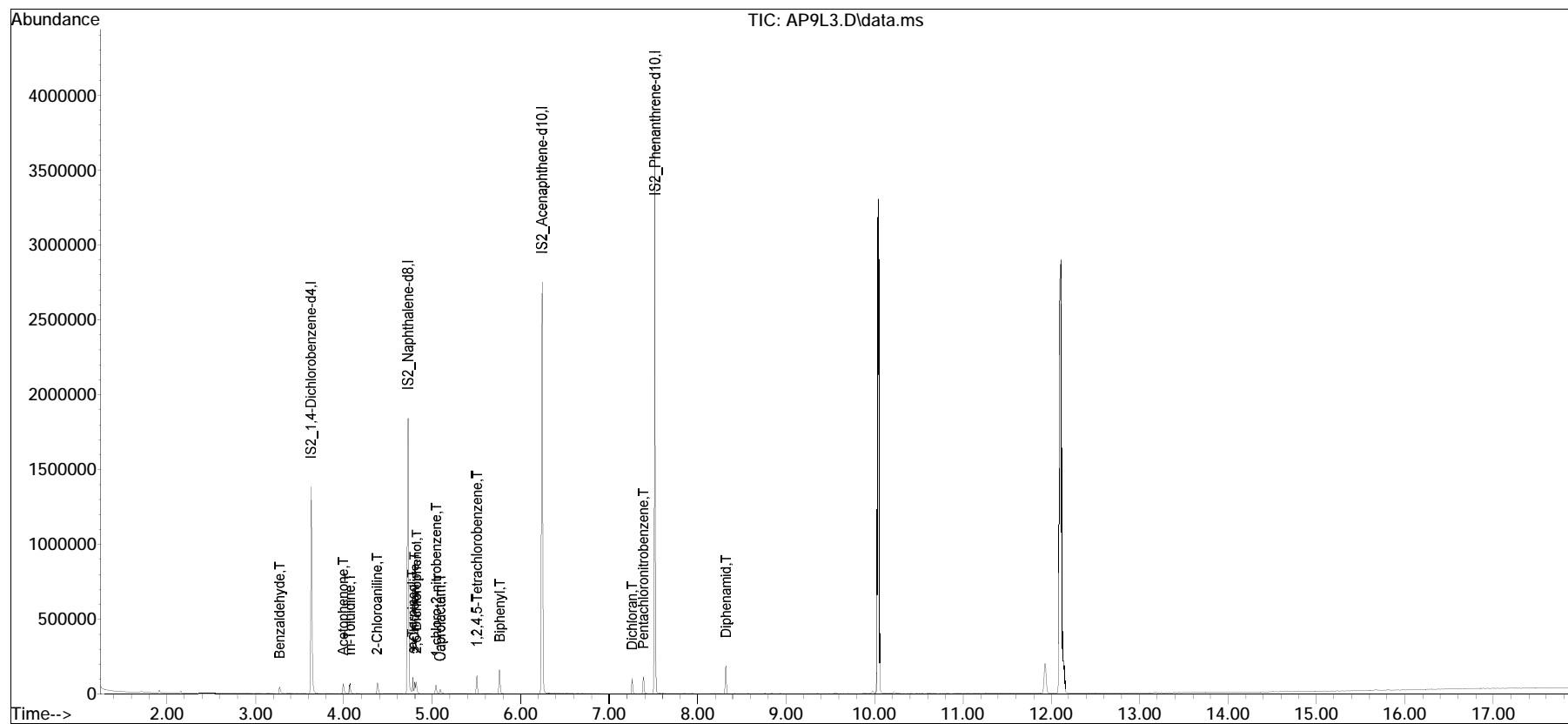
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : AP9L3.D
Acq On : 21 Jul 2023 6:03 am
Operator : JULIET: jg
Sample : IL18,32,,AP9L3 Lot# 10072
Misc : WG1806439,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 21 14:04:51 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 13:58:44 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : AP9L3.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 6:03 am Instrument : Juliet
Sample : IL18,32,,AP9L3 Lot# 10072 Quant Date : 7/21/2023 1:59 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : AP9L2.D
 Acq On : 21 Jul 2023 6:27 am
 Operator : JULIET: jg
 Sample : IL19,32,,AP9L2 Lot# 10073
 Misc : WG1806439,,
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 21 14:03:52 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:58:44 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.631	152	245551	40.000	ug/ml	0.00
Standard Area 1 = 234375			Recovery	=	104.77%	
55) IS2_Naphthalene-d8	4.725	136	929675	40.000	ug/ml	0.00
Standard Area 1 = 865859			Recovery	=	107.37%	
83) IS2_Acenaphthene-d10	6.242	164	585110	40.000	ug/ml	0.00
Standard Area 1 = 524605			Recovery	=	111.53%	
98) IS2_Phenanthrene-d10	7.519	188	1336702	40.000	ug/ml	# 0.00
Standard Area 1 = 1149682			Recovery	=	116.27%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.272	105	9667	2.384	ug/ml	99
29) Acetophenone	3.995	105	17774	1.849	ug/ml	99
30) m-Toluidine	4.066	106	16649	2.171	ug/ml	96
31) 2-Chloroaniline	4.384	127	19554	2.099	ug/ml	93
56) a-Terpineol	4.772	59	8703	1.951	ug/ml	89
57) 3-Chloroaniline	4.795	65	4875	2.004	ug/ml	82
58) 2,6-Dichlorophenol	4.819	162	13113	1.897	ug/ml	96
59) 1-chloro-2-nitrobenzene	5.048	111	6119	2.021	ug/ml	93
60) Caprolactam	5.090	55	4852	1.932	ug/ml#	89
61) 1,2,4,5-Tetrachloroben...	5.501	216	16895	1.975	ug/ml	94
62) Biphenyl	5.760	154	39962	2.113	ug/ml	99
84) Dichloran	7.260	206	5514	1.676	ug/ml	87
85) Pentachloronitrobenzene	7.389	237	5546	1.905	ug/ml	92
99) Diphenamid	8.325	167	31828	1.893	ug/ml	89

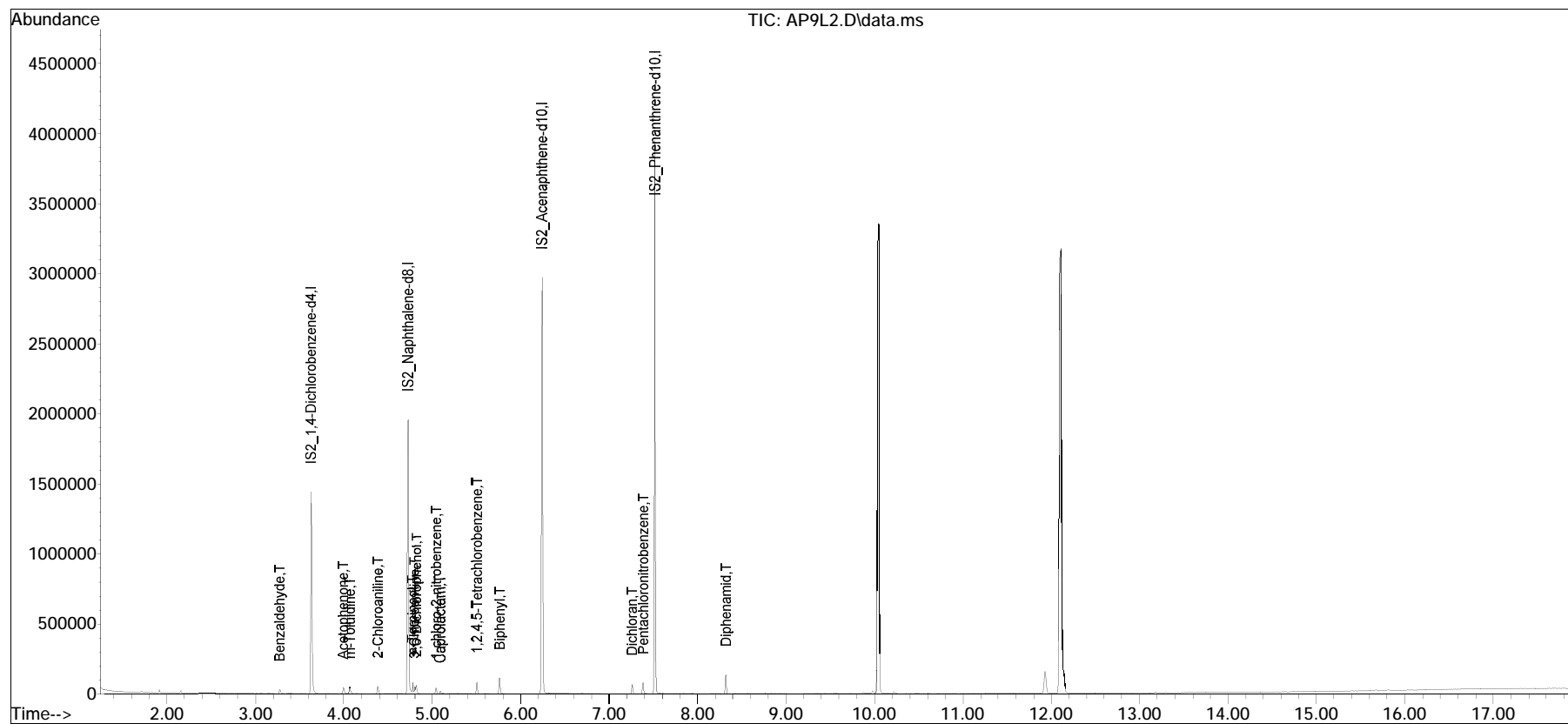
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : AP9L2.D
Acq On : 21 Jul 2023 6:27 am
Operator : JULIET: jg
Sample : IL19,32,,AP9L2 Lot# 10073
Misc : WG1806439,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 21 14:03:52 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 13:58:44 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : AP9L2.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 6:27 am Instrument : Juliet
Sample : IL19,32,,AP9L2 Lot# 10073 Quant Date : 7/21/2023 1:59 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : AP9L1.D
 Acq On : 21 Jul 2023 6:51 am
 Operator : JULIET: jg
 Sample : IL20,32,,AP9L1 Lot# 10074
 Misc : WG1806439,,
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 21 14:02:17 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:58:44 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.631	152	256625	40.000	ug/ml	0.00
Standard Area 1 = 234375			Recovery	=	109.49%	
55) IS2_Naphthalene-d8	4.725	136	984207	40.000	ug/ml	0.00
Standard Area 1 = 865859			Recovery	=	113.67%	
83) IS2_Acenaphthene-d10	6.242	164	600138	40.000	ug/ml	0.00
Standard Area 1 = 524605			Recovery	=	114.40%	
98) IS2_Phenanthrene-d10	7.519	188	1345290	40.000	ug/ml	# 0.00
Standard Area 1 = 1149682			Recovery	=	117.01%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.278	105	4916	1.160	ug/ml	100
29) Acetophenone	4.001	105	8957	0.891	ug/ml	94
30) m-Toluidine	4.066	106	8296	1.035	ug/ml	97
31) 2-Chloroaniline	4.384	127	9865	1.013	ug/ml	95
56) a-Terpineol	4.778	59	4043	0.856	ug/ml#	83
57) 3-Chloroaniline	4.801	65	2174	0.844	ug/ml#	58
58) 2,6-Dichlorophenol	4.819	162	6469	0.884	ug/ml#	91
59) 1-chloro-2-nitrobenzene	5.048	111	2987	0.932	ug/ml	93
60) Caprolactam	5.101	55	3043	1.144	ug/ml#	91
61) 1,2,4,5-Tetrachloroben...	5.501	216	9145	1.010	ug/ml	98
62) Biphenyl	5.760	154	20730	1.036	ug/ml	99
84) Dichloran	7.260	206	2680	0.794	ug/ml	94
85) Pentachloronitrobenzene	7.389	237	2807	0.940	ug/ml	86
99) Diphenamid	8.325	167	16311	0.964	ug/ml	91

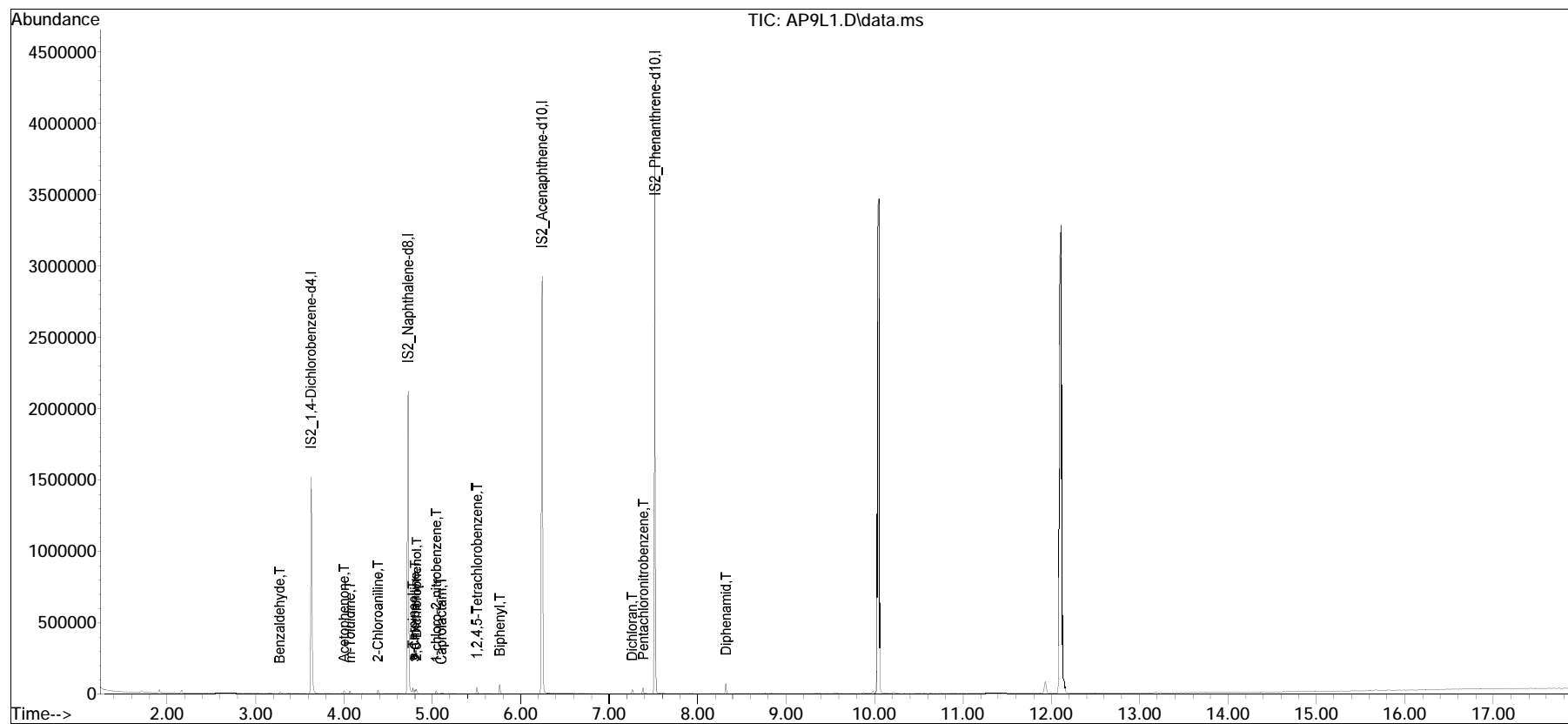
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : AP9L1.D
 Acq On : 21 Jul 2023 6:51 am
 Operator : JULIET: jg
 Sample : IL20,32,,AP9L1 Lot# 10074
 Misc : WG1806439,,
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 21 14:02:17 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:58:44 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : AP9L1.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 6:51 am Instrument : Juliet
Sample : IL20,32,,AP9L1 Lot# 10074 Quant Date : 7/21/2023 1:59 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNICV.D
 Acq On : 21 Jul 2023 7:14 am
 Operator : JULIET: jg
 Sample : CQICV1,32,,ABNICV Lot# 10006
 Misc : WG1806439,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 21 21:29:02 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 21:28:28 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	IS1_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	0.00
2 t	n-Nitrosodimethylamine	0.610	0.619	-1.5	111	0.00
3 t	Pyridine	1.085	1.081	0.4	104	0.00
4 S	2-Fluorophenol	1.008	1.040	-3.2	110	0.00
5 T	Aniline	1.656	1.628	1.7	106	0.00
6 t	2-Chlorophenol	1.249	1.193	4.5	107	0.00
7 S	Phenol-d6	1.291	1.317	-2.0	109	0.00
8 T	Phenol	1.442	1.447	-0.3	108	0.00
9 T	Bis(2-chloroethyl)ether	0.960	0.927	3.4	109	0.00
10 T	1,3-Dichlorobenzene	1.430	1.323	7.5	105	0.00
11 T	1,4-Dichlorobenzene	1.437	1.352	5.9	109	0.00
12 T	1,2-Dichlorobenzene	1.388	1.294	6.8	107	0.00
13 t	Benzyl alcohol	0.897	0.874	2.6	106	0.00
14 T	Bis(2-chloroisopropyl)ether	1.171	1.097	6.3	106	0.00
15 T	2-Methylphenol	1.018	0.978	3.9	107	0.00
16 T	Hexachloroethane	0.491	0.453	7.7	106	0.00
17 T	n-Nitrosodi-n-propylamine	0.755	0.720	4.6	107	0.00
18 T	3-Methylphenol/4-Methylphen	1.076	1.037	3.6	106	0.00
19 S	Nitrobenzene-d5	1.160	1.069	7.8	103	0.00
20 T	Nitrobenzene	1.125	1.035	8.0	105	0.00
21 T	Isophorone	2.148	2.005	6.7	105	0.00
22 T	2-Nitrophenol	0.682	0.658	3.5	106	0.00
23 T	2,4-Dimethylphenol	1.167	1.125	3.6	107	0.00
24 T	Bis(2-chloroethoxy)methane	1.262	1.184	6.2	108	0.00
25 T	2,4-Dichlorophenol	1.157	1.118	3.4	107	0.00
26 T	1,2,4-Trichlorobenzene	1.294	1.209	6.6	107	0.00
35 I	IS1_Naphthalene-d8	1.000	1.000	0.0	113	0.00
36 T	Naphthalene	0.985	0.918	6.8	108	0.00
37 T	Benzoic Acid	0.234	0.232	0.9	107	0.00
38 T	4-Chloroaniline	0.100	0.096	4.0	106	0.00
39 T	Hexachlorobutadiene	0.201	0.189	6.0	107	0.00
40 T	p-Chloro-m-cresol	0.282	0.280	0.7	109	0.00
41 T	2-Methylnaphthalene	0.665	0.660	0.8	110	0.00
42 T	1-Methylnaphthalene	0.216	0.206	4.6	110	0.00
43 T	Hexachlorocyclopentadiene	* 50.000	45.864	8.3	110	0.00
44 T	2,4,6-Trichlorophenol	0.243	0.238	2.1	109	0.00
45 T	2,4,5-Trichlorophenol	0.265	0.262	1.1	108	0.00
46 S	2-Fluorobiphenyl	0.841	0.786	6.5	108	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNICV.D
 Acq On : 21 Jul 2023 7:14 am
 Operator : JULIET: jg
 Sample : CQICV1,32,,ABNICV Lot# 10006
 Misc : WG1806439,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 21 21:29:02 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 21:28:28 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47 T	2-Chloronaphthalene	0.710	0.661	6.9	108	0.00
48 T	2-Nitroaniline	0.236	0.235	0.4	112	0.00
49 T	1,4-Dinitrobenzene	0.106	0.106	0.0	108	0.00
50 T	1,3-Dinitrobenzene	0.122	0.116	4.9	106	0.00
51 T	Dimethyl phthalate	0.871	0.803	7.8	108	0.00
52 T	Acenaphthylene	1.161	1.094	5.8	109	0.00
53 T	2,6-Dinitrotoluene	0.181	0.173	4.4	109	0.00
54 T	1,2-Dinitrobenzene	0.074	0.069	6.8	110	0.00
63 I	IS1_Acenaphthene-d10	1.000	1.000	0.0	116	0.00
64 T	3-Nitroaniline	0.350	0.337	3.7	109	0.00
65 T	Acenaphthene	1.101	0.927	15.8	103	0.00
66 T	2,4-Dinitrophenol	* 50.000	43.205	13.6	104	0.00
67 T	Dibenzofuran	1.707	1.567	8.2	109	0.00
68 T	2,4-Dinitrotoluene	0.419	0.384	8.4	107	0.00
69 T	4-Nitrophenol	0.213	0.206	3.3	106	0.00
70 T	2,3,5,6-Tetrachlorophenol	0.356	0.355	0.3	110	0.00
71 T	2,3,4,6-Tetrachlorophenol	0.373	0.351	5.9	111	0.00
72 T	Diethyl phthalate	1.428	1.313	8.1	109	0.00
73 T	Fluorene	1.383	1.260	8.9	107	0.00
74 T	4-Chlorophenyl phenyl ether	0.670	0.602	10.1	104	0.00
75 T	4-Nitroaniline	0.328	0.319	2.7	112	0.00
76 T	4,6-Dinitro-o-cresol	0.249	0.244	2.0	108	0.00
77 T	NDPA/DPA	1.177	1.074	8.8	110	0.00
78 T	Azobenzene	1.063	0.973	8.5	108	0.00
79 S	2,4,6-Tribromophenol	0.230	0.226	1.7	114	0.00
80 T	4-Bromophenyl phenyl ether	0.438	0.413	5.7	109	0.00
81 T	Hexachlorobenzene	0.508	0.476	6.3	113	0.00
82 T	Pentachlorophenol	* 50.000	49.617	0.8	118	0.00
88 I	IS1_Phenanthrene-d10	1.000	1.000	0.0	114	0.00
89 T	Phenanthrene	0.996	0.890	10.6	107	0.00
90 T	Anthracene	0.998	0.906	9.2	109	0.00
91 T	Carbazole	0.959	0.875	8.8	110	0.00
92 T	Di-n-butylphthalate	1.167	1.094	6.3	109	0.00
93 T	Fluoranthene	1.296	1.181	8.9	107	0.00
94 T	Benzidine	0.855	0.818	4.3	115	0.00
95 T	Pyrene	1.335	1.164	12.8	106	0.00
96 S	4-Terphenyl-d14	0.974	0.893	8.3	111	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNICV.D
 Acq On : 21 Jul 2023 7:14 am
 Operator : JULIET: jg
 Sample : CQICV1,32,,ABNICV Lot# 10006
 Misc : WG1806439,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 21 21:29:02 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 21:28:28 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97 T	Butyl benzyl phthalate	0.580	0.549	5.3	108	0.00
104 I	IS1_Chrysene-d12	1.000	1.000	0.0	115	0.00
105 T	Benzo(a)anthracene	1.349	1.238	8.2	110	0.00
106 T	3,3'-Dichlorobenzidine	0.528	0.512	3.0	111	0.00
107 T	Chrysene	1.125	1.036	7.9	113	0.00
108 T	Bis(2-ethylhexyl)phthalate	0.750	0.721	3.9	109	0.00
109 T	Di-n-octylphthalate	1.406	1.407	-0.1	108	0.00
110 T	Benzo(b)fluoranthene	1.402	1.327	5.3	109	0.00
111 T	Benzo(k)fluoranthene	1.265	1.152	8.9	112	0.00
112 T	Benzo(a)pyrene	1.209	1.210	-0.1	117	0.00
113 I	IS1_Perylene-d12	1.000	1.000	0.0	116	0.00
114 T	Indeno(1,2,3-cd)pyrene	1.059	1.038	2.0	112	0.00
115 T	Dibenzo(a,h)anthracene	1.082	1.049	3.0	111	0.00
116 T	Benzo(ghi)perylene	1.109	1.054	5.0	111	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNICV.D
 Acq On : 21 Jul 2023 7:14 am
 Operator : JULIET: jg
 Sample : CQICV1,32,,ABNICV Lot# 10006
 Misc : WG1806439,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 21 21:29:02 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 21:28:28 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.631	152	266328	40.000	ug/ml	0.00
Standard Area 1 = 239757			Recovery =	111.08%		
35) IS1_Naphthalene-d8	4.725	136	988874	40.000	ug/ml	0.00
Standard Area 1 = 875703			Recovery =	112.92%		
63) IS1_Acenaphthene-d10	6.243	164	611692	40.000	ug/ml	0.00
Standard Area 1 = 526173			Recovery =	116.25%		
88) IS1_Phenanthrene-d10	7.519	188	1351173	40.000	ug/ml	0.00
Standard Area 1 = 1184116			Recovery =	114.11%		
104) IS1_Chrysene-d12	10.054	240	1412766	40.000	ug/ml	# 0.00
Standard Area 1 = 1226984			Recovery =	115.14%		
113) IS1_Perylene-d12	12.113	264	1642419	40.000	ug/ml	0.00
Standard Area 1 = 1421285			Recovery =	115.56%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.560	112	346275	51.584	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	103.17%		
7) Phenol-d6	3.366	99	438457	51.014	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	102.03%		
19) Nitrobenzene-d5	4.113	82	355953	46.096	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	184.38%#		
46) 2-Fluorobiphenyl	5.678	172	971960	46.764	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	187.06%#		
79) 2,4,6-Tribromophenol	6.931	330	173030	49.298	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	98.60%		
96) 4-Terphenyl-d14	8.931	244	1507928	45.821	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	183.28%#		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	1.519	74	206200	50.781	ug/ml#	88
3) Pyridine	1.549	79	359878	49.827	ug/ml#	77
5) Aniline	3.360	93	542077	49.169	ug/ml#	87
6) 2-Chlorophenol	3.460	128	397153	47.775	ug/ml	93
8) Phenol	3.378	94	481676	50.156	ug/ml#	89
9) Bis(2-chloroethyl)ether	3.425	93	308493	48.250	ug/ml	89
10) 1,3-Dichlorobenzene	3.584	146	440571	46.277	ug/ml	98
11) 1,4-Dichlorobenzene	3.649	146	449953	47.019	ug/ml	98
12) 1,2-Dichlorobenzene	3.778	146	430762	46.627	ug/ml	98
13) Benzyl alcohol	3.772	79	290845	48.719	ug/ml	96
14) Bis(2-chloroisopropyl)...	3.890	45	365278	46.852	ug/ml#	76

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNICV.D
 Acq On : 21 Jul 2023 7:14 am
 Operator : JULIET: jg
 Sample : CQICV1,32,,ABNICV Lot# 10006
 Misc : WG1806439,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 21 21:29:02 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 21:28:28 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	3.890	108	325650	48.048	ug/ml	99
16) Hexachloroethane	4.060	117	150829	46.091	ug/ml	82
17) n-Nitrosodi-n-propylamine	4.001	70	239603	47.695	ug/ml	99
18) 3-Methylphenol/4-Methy...	4.031	108	345294	48.209	ug/ml	98
20) Nitrobenzene	4.131	77	344470	46.003	ug/ml	99
21) Isophorone	4.343	82	667382	46.662	ug/ml	98
22) 2-Nitrophenol	4.407	139	219044	48.254	ug/ml	95
23) 2,4-Dimethylphenol	4.478	107	374387	48.201	ug/ml	98
24) Bis(2-chloroethoxy)met...	4.548	93	394209	46.933	ug/ml	99
25) 2,4-Dichlorophenol	4.625	162	372158	48.290	ug/ml	96
26) 1,2,4-Trichlorobenzene	4.684	180	402468	46.708	ug/ml	99
36) Naphthalene	4.743	128	1134989	46.590	ug/ml	99
37) Benzoic Acid	4.613	105	286616	49.601	ug/ml	97
38) 4-Chloroaniline	4.807	65	118293	47.936	ug/ml	82
39) Hexachlorobutadiene	4.866	225	234140	47.054	ug/ml	99
40) p-Chloro-m-cresol	5.260	107	345491	49.493	ug/ml	97
41) 2-Methylnaphthalene	5.348	142	815513	49.599	ug/ml	99
42) 1-Methylnaphthalene	5.431	115	254917	47.629	ug/ml	87
43) Hexachlorocyclopentadiene	5.495	237	224324	45.864	ug/ml	98
44) 2,4,6-Trichlorophenol	5.607	196	294454	49.049	ug/ml	100
45) 2,4,5-Trichlorophenol	5.643	196	323651	49.465	ug/ml	98
47) 2-Chloronaphthalene	5.766	162	817155	46.566	ug/ml	97
48) 2-Nitroaniline	5.872	138	291048	49.953	ug/ml	90
49) 1,4-Dinitrobenzene	6.001	168	131207	49.857	ug/ml	92
50) 1,3-Dinitrobenzene	6.072	168	143275	47.559	ug/ml	86
51) Dimethyl phthalate	6.048	163	993105	46.138	ug/ml	99
52) Acenaphthylene	6.119	152	1351939	47.094	ug/ml	99
53) 2,6-Dinitrotoluene	6.090	165	214179	47.962	ug/ml#	81
54) 1,2-Dinitrobenzene	6.137	168	84687	46.074	ug/ml	99
64) 3-Nitroaniline	6.231	138	257846	48.170	ug/ml#	92
65) Acenaphthene	6.272	154	709023	42.123	ug/ml	99
66) 2,4-Dinitrophenol	6.337	184	126969	43.205	ug/ml	94
67) Dibenzofuran	6.425	168	1198133	45.905	ug/ml	94
68) 2,4-Dinitrotoluene	6.442	165	293257	45.748	ug/ml#	80
69) 4-Nitrophenol	6.419	65	157654	48.358	ug/ml#	75
70) 2,3,5,6-Tetrachlorophenol	6.507	232	271460	49.892	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	6.548	232	268446	47.103	ug/ml	99
72) Diethyl phthalate	6.660	149	1004128	45.989	ug/ml	100
73) Fluorene	6.719	166	963515	45.559	ug/ml	100
74) 4-Chlorophenyl phenyl ...	6.731	204	460525	44.956	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNICV.D
 Acq On : 21 Jul 2023 7:14 am
 Operator : JULIET: jg
 Sample : CQICV1,32,,ABNICV Lot# 10006
 Misc : WG1806439,,
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 21 21:29:02 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 21:28:28 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ABNL7.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4-Nitroaniline	6.760	138	244102	48.683	ug/ml#	80
76) 4,6-Dinitro-o-cresol	6.801	198	186490	49.015	ug/ml#	87
77) NDPA/DPA	6.842	169	821363	45.652	ug/ml	100
78) Azobenzene	6.866	77	744089	45.762	ug/ml	94
80) 4-Bromophenyl phenyl e...	7.148	248	315555	47.137	ug/ml	98
81) Hexachlorobenzene	7.201	284	363705	46.777	ug/ml	99
82) Pentachlorophenol	7.384	266	213946	49.617	ug/ml	98
89) Phenanthrene	7.542	178	1503823	44.719	ug/ml	99
90) Anthracene	7.584	178	1529757	45.379	ug/ml	99
91) Carbazole	7.742	167	1477928	45.633	ug/ml	99
92) Di-n-butylphthalate	8.078	149	1847353	46.881	ug/ml	99
93) Fluoranthene	8.572	202	1994400	45.574	ug/ml#	95
94) Benzidine	8.707	184	1381064	47.845	ug/ml#	97
95) Pyrene	8.760	202	1966404	43.591	ug/ml	99
97) Butyl benzyl phthalate	9.454	149	927977	47.380	ug/ml	97
105) Benzo(a)anthracene	10.042	228	2185416	45.879	ug/ml	99
106) 3,3'-Dichlorobenzidine	10.042	252	903851	48.512	ug/ml	99
107) Chrysene	10.083	228	1829293	46.044	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	10.189	149	1273201	48.060	ug/ml	100
109) Di-n-octylphthalate	11.136	149	2483919	50.020	ug/ml	97
110) Benzo(b)fluoranthene	11.536	252	2343499	47.337	ug/ml	97
111) Benzo(k)fluoranthene	11.583	252	2034441	45.519	ug/ml#	94
112) Benzo(a)pyrene	12.019	252	2136282	50.027	ug/ml	97
114) Indeno(1,2,3-cd)pyrene	13.771	276	2131788	49.014	ug/mL	95
115) Dibenzo(a,h)anthracene	13.824	278	2154432	48.511	ug/ml	96
116) Benzo(ghi)perylene	14.166	276	2164432	47.520	ug/ml	95

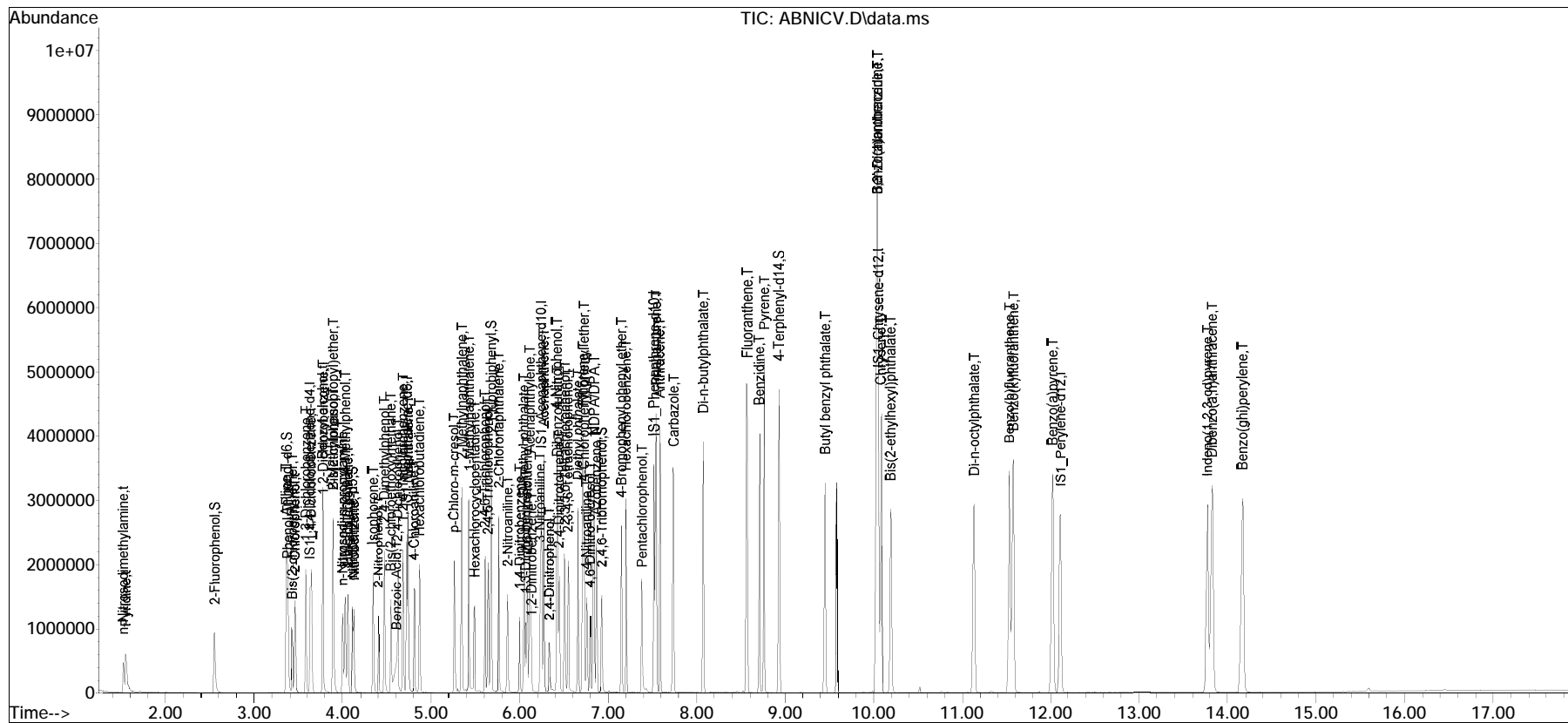
(#) = qualifier out of range (m) = manual integration (+) = signals summed

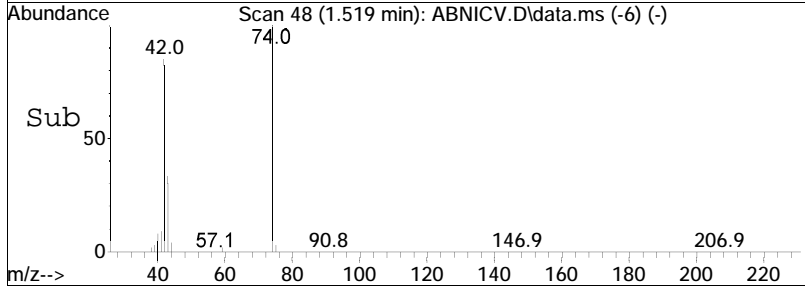
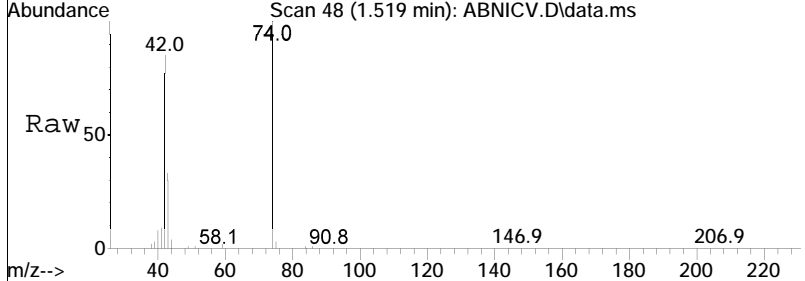
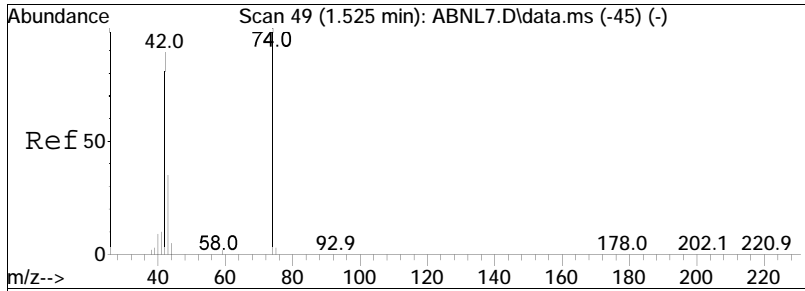
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ABNICV.D
 Acq On : 21 Jul 2023 7:14 am
 Operator : JULIET: jg
 Sample : CQICV1,32,,ABNICV Lot# 10006
 Misc : WG1806439,,
 ALS Vial : 21 Sample Multiplier: 1

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 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 21:28:28 2023
 Response via : Initial Calibration

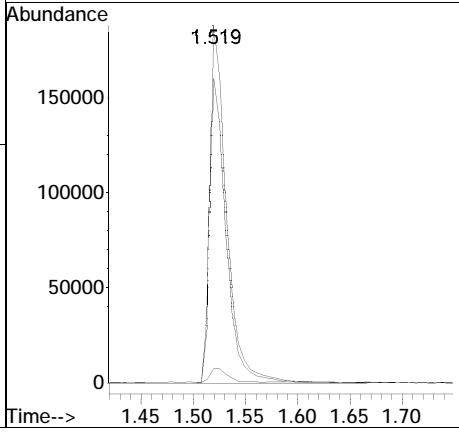
Sub List : ABNical - ABN ical sublistcal\ABNL7.D•

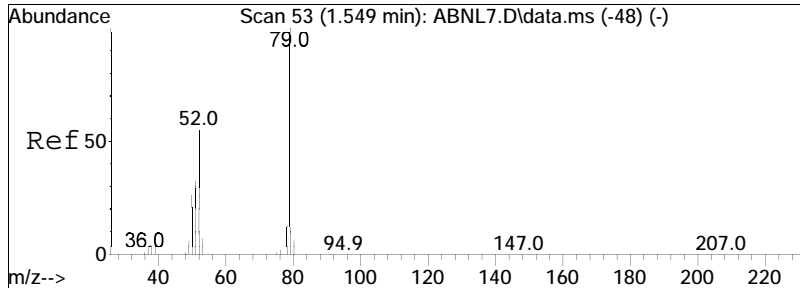




#2
 n-Nitrosodimethylamine
 Concen: 50.78 ug/ml
 RT: 1.519 min Scan# 48
 Delta R.T. -0.006 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

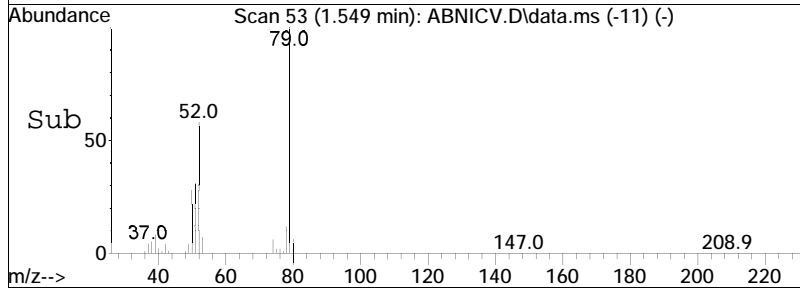
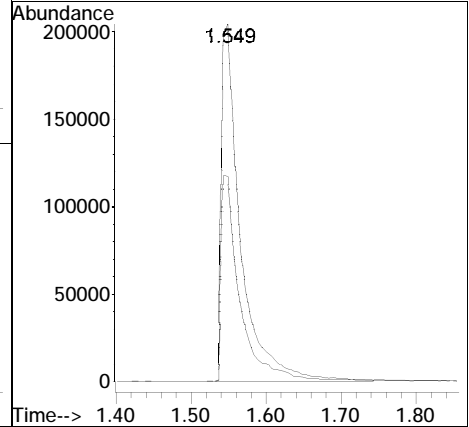
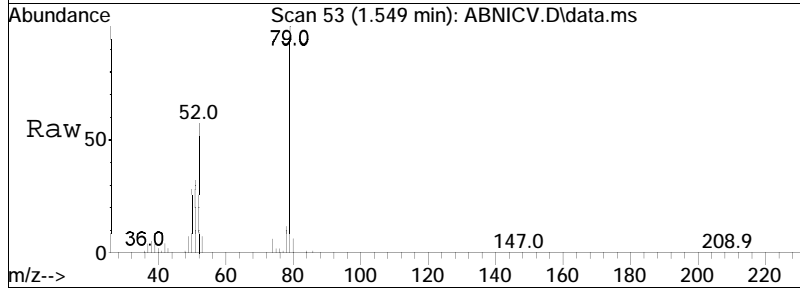
Tgt Ion	Ratio	Lower	Upper
74	100		
42	86.0	60.1	90.1
44	4.3	4.6	6.8#

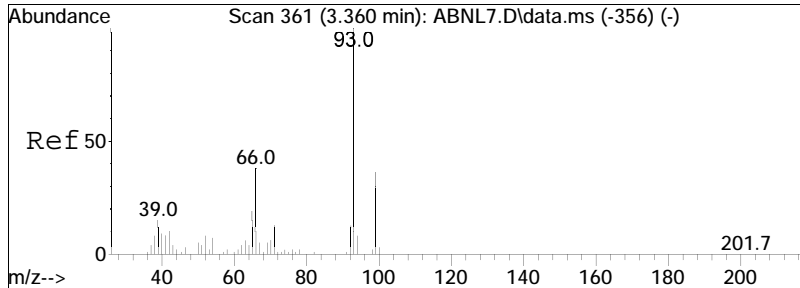




#3
 Pyridine
 Concen: 49.83 ug/ml
 RT: 1.549 min Scan# 53
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

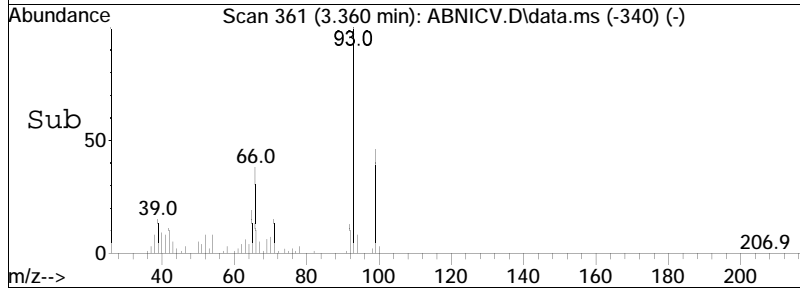
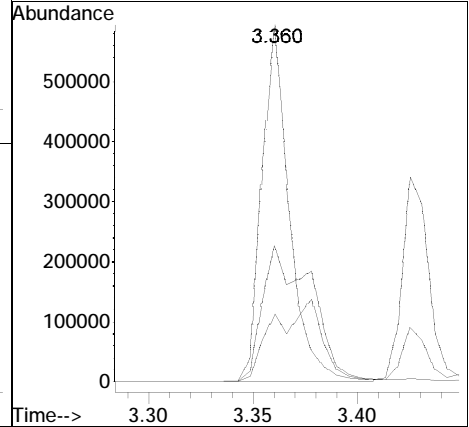
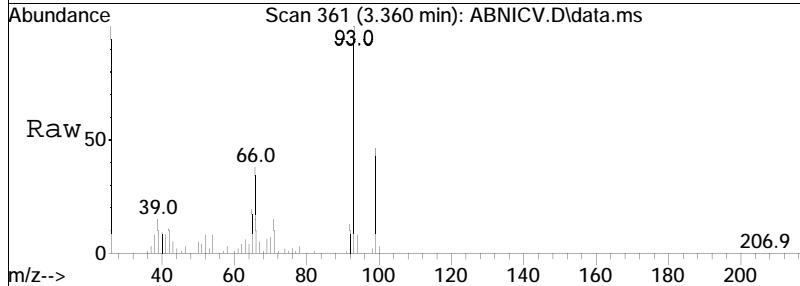
Tgt Ion	Resp	Lower	Upper
79	100		
52	56.3	60.9	91.3#

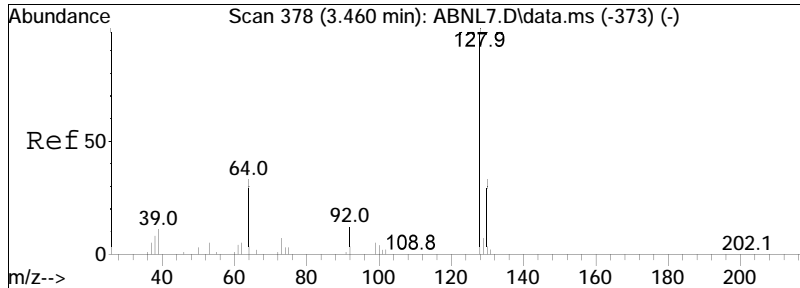




#5
 Aniline
 Concen: 49.17 ug/ml
 RT: 3.360 min Scan# 361
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

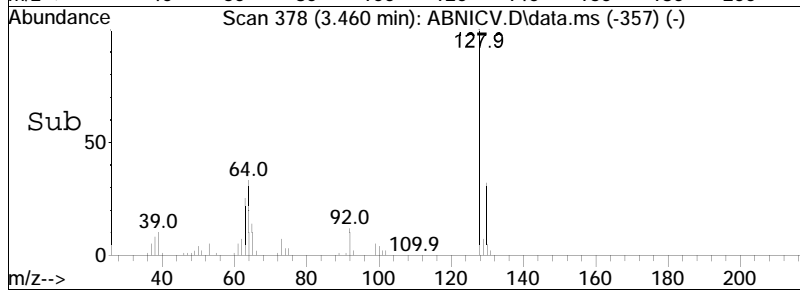
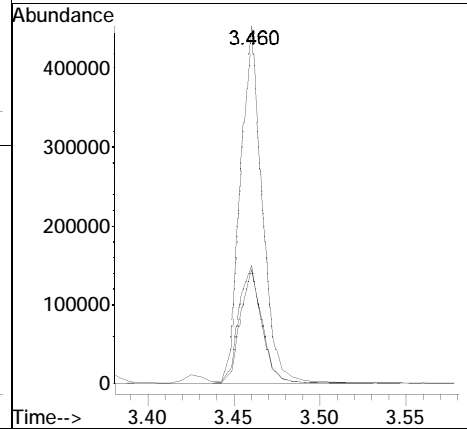
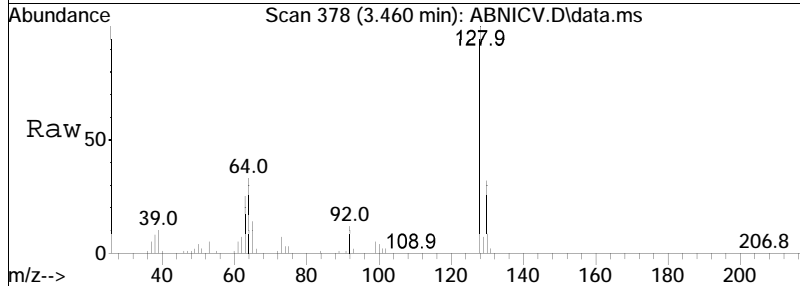
Tgt Ion	Resp	Lower	Upper
93	100		
66	67.4	51.5	77.3
65	40.3	16.6	24.8#

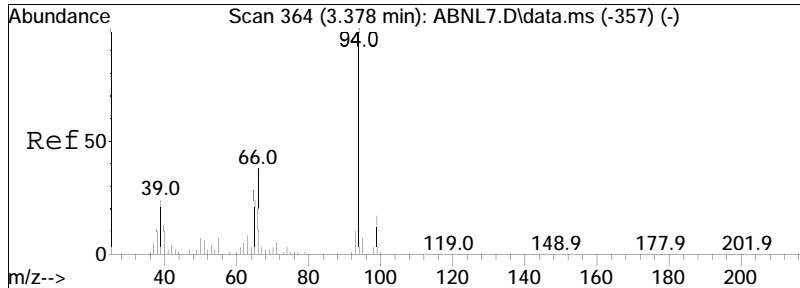




#6
 2-Chlorophenol
 Concen: 47.77 ug/ml
 RT: 3.460 min Scan# 378
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

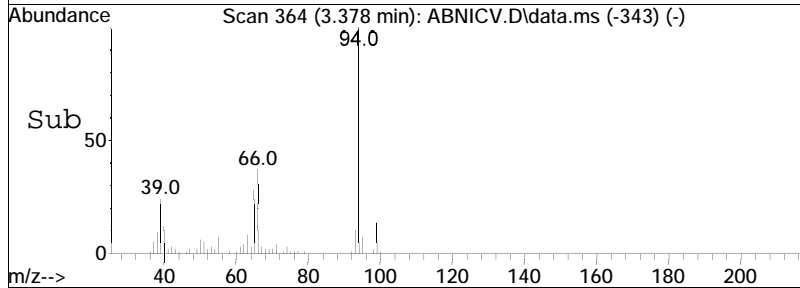
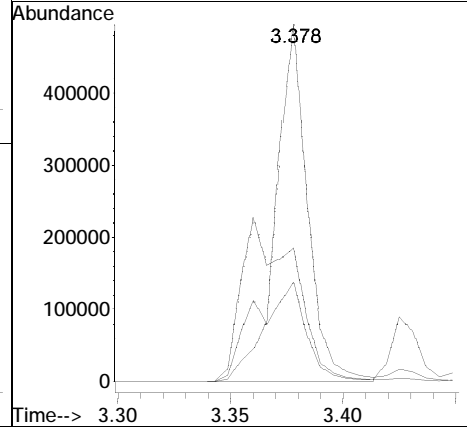
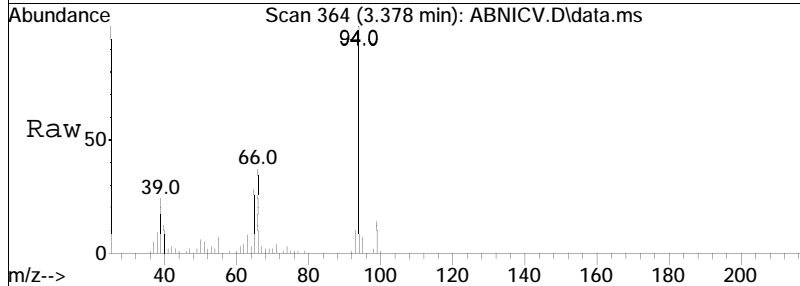
Tgt Ion	Ratio	Lower	Upper
128	100		
64	34.6	33.4	50.0
130	32.4	26.2	39.2

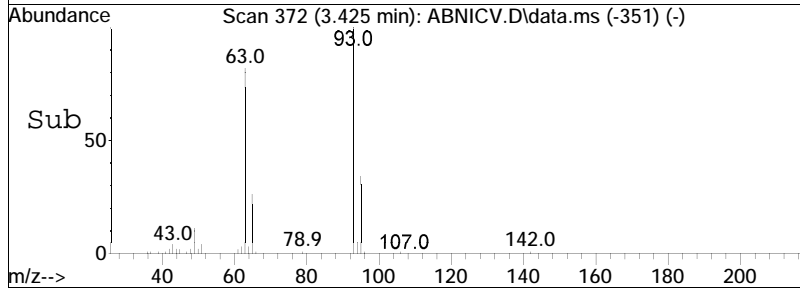
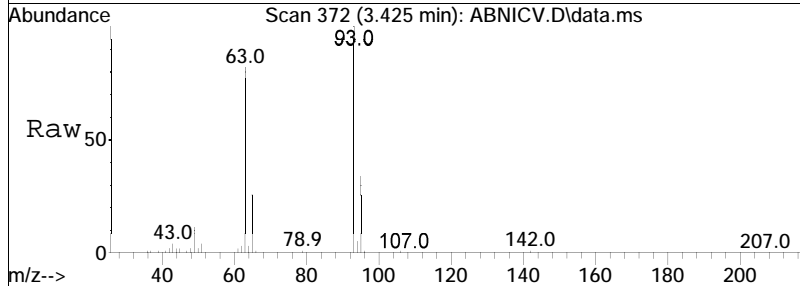
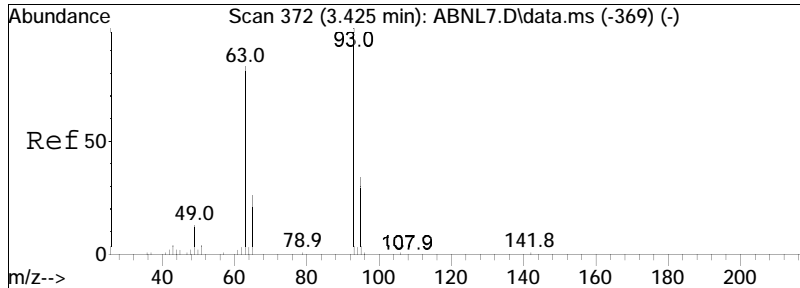




#8
 Phenol
 Concen: 50.16 ug/ml
 RT: 3.378 min Scan# 364
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

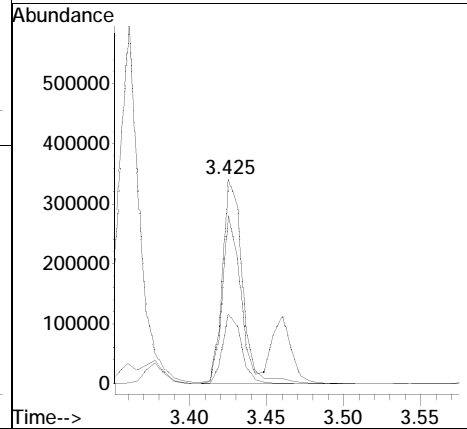
Tgt Ion	Ratio	Lower	Upper
94	100		
65	45.3	19.4	29.0#
66	75.9	60.4	90.6

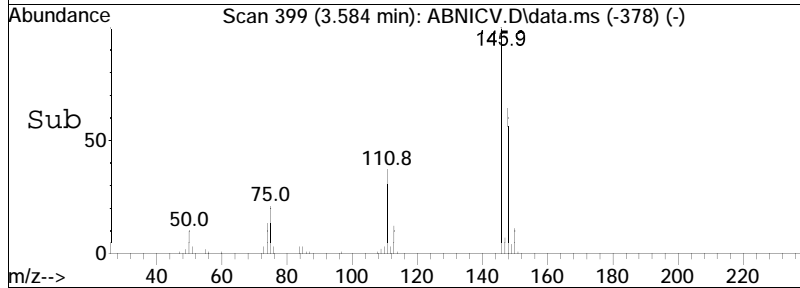
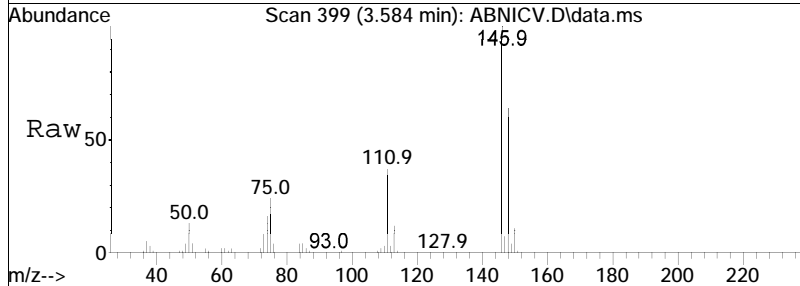
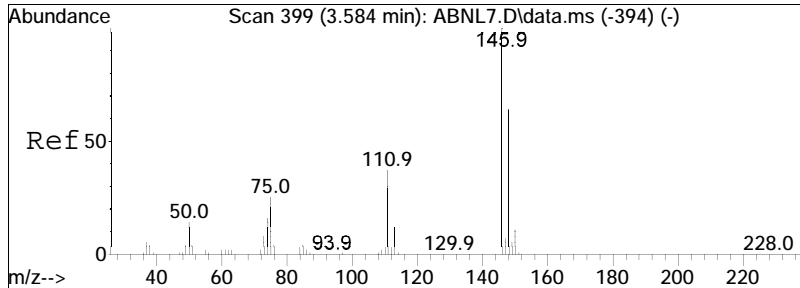




#9
 Bis(2-chloroethyl)ether
 Concen: 48.25 ug/ml
 RT: 3.425 min Scan# 372
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

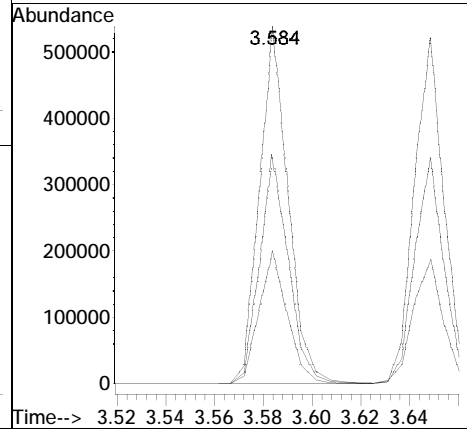
Tgt Ion	Resp	Lower	Upper
93	308493		
93	100		
63	74.3	70.4	105.6
95	32.9	26.6	39.8

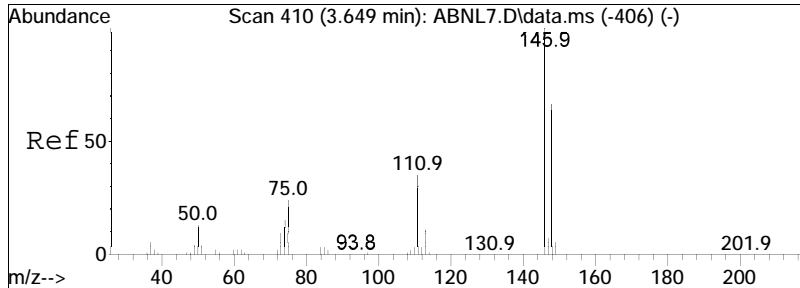




#10
 1,3-Dichlorobenzene
 Concen: 46.28 ug/ml
 RT: 3.584 min Scan# 399
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

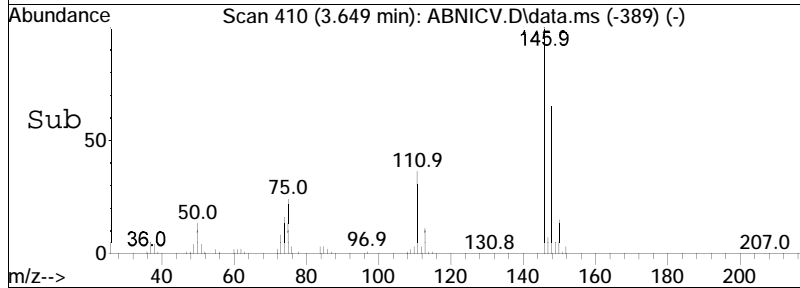
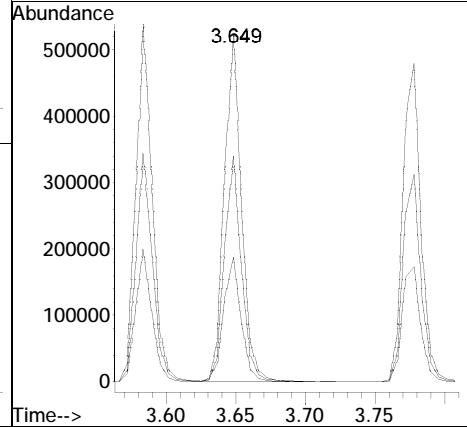
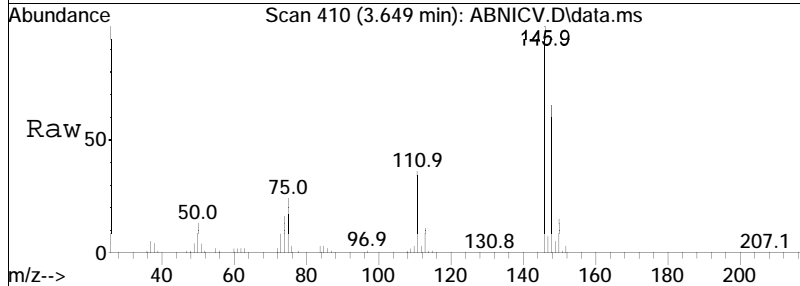
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.8	31.4	47.0
148	64.3	51.8	77.6

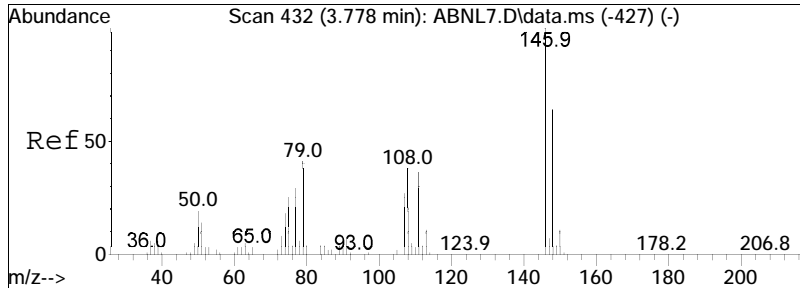




#11
 1,4-Dichlorobenzene
 Concen: 47.02 ug/ml
 RT: 3.649 min Scan# 410
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

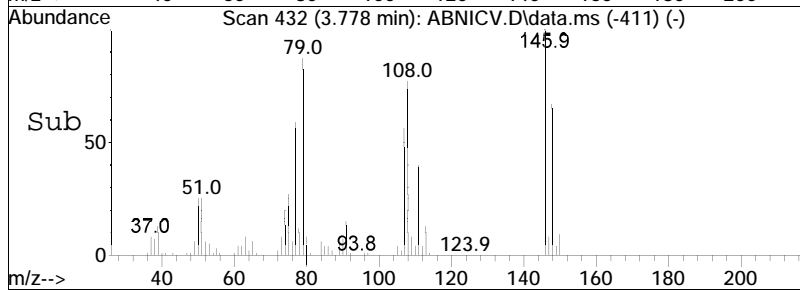
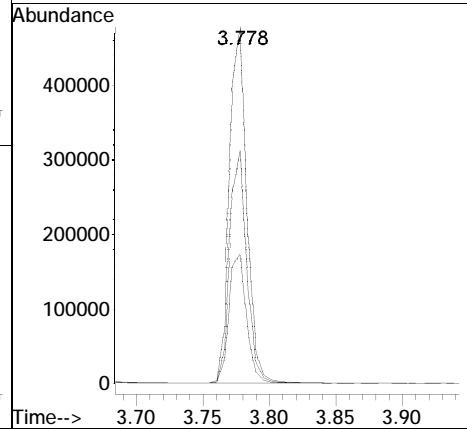
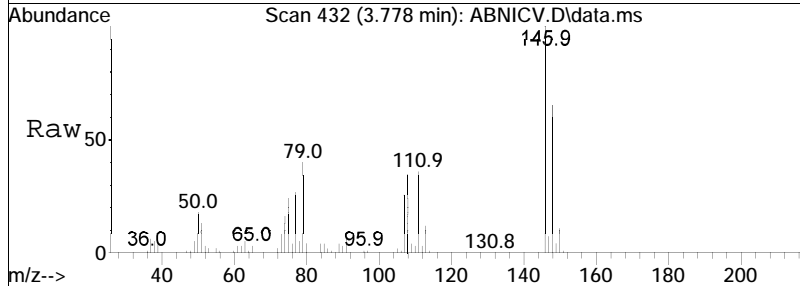
Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.5	52.4	78.6
111	36.6	30.6	46.0

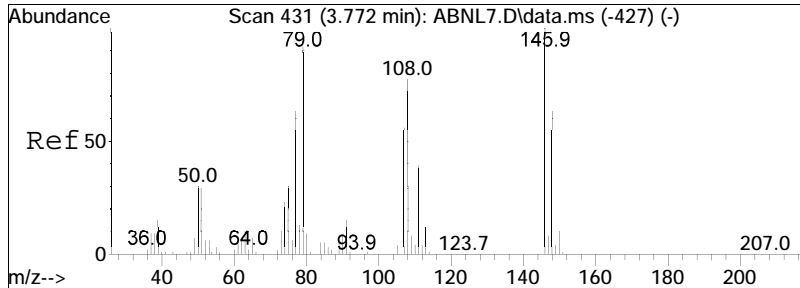




#12
 1,2-Dichlorobenzene
 Concen: 46.63 ug/ml
 RT: 3.778 min Scan# 432
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

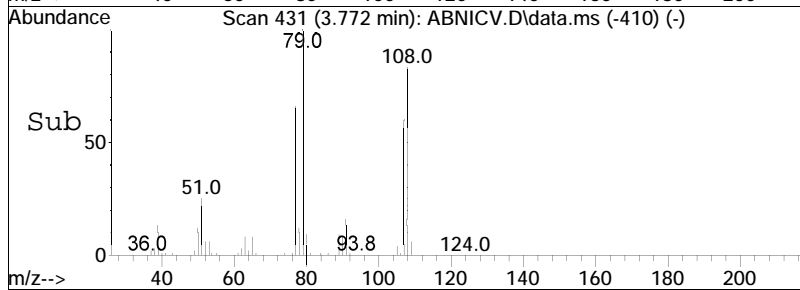
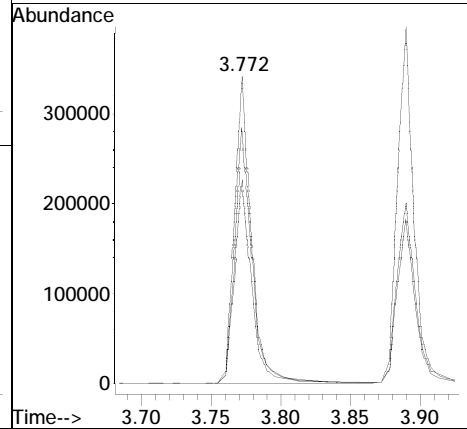
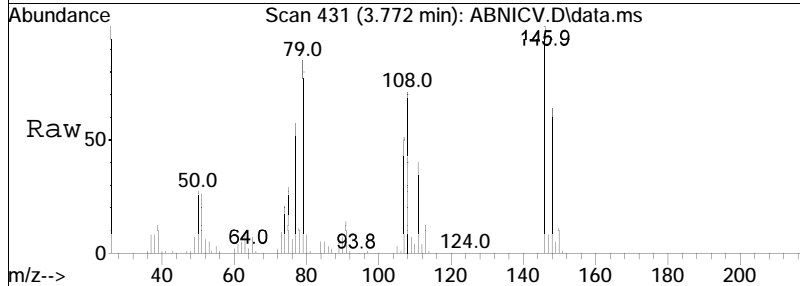
Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.4	32.1	48.1
148	64.2	51.9	77.9

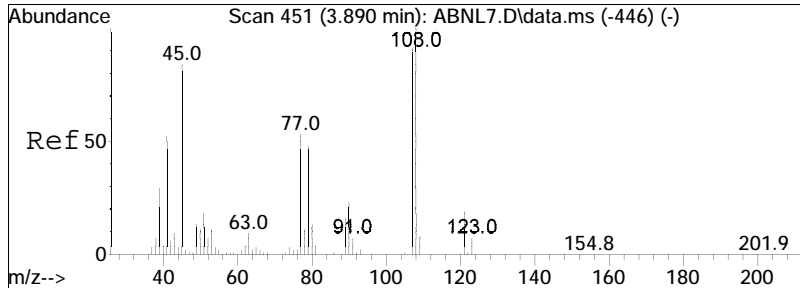




#13
 Benzyl alcohol
 Concen: 48.72 ug/ml
 RT: 3.772 min Scan# 431
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

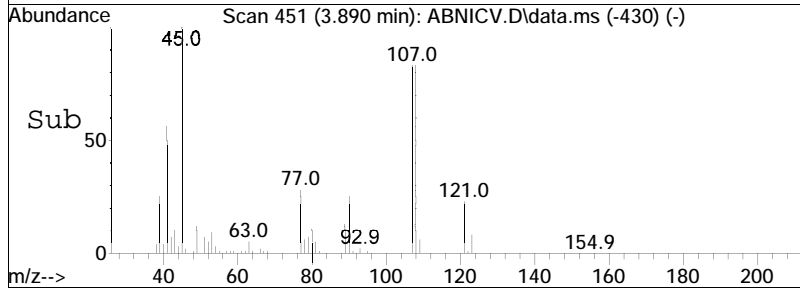
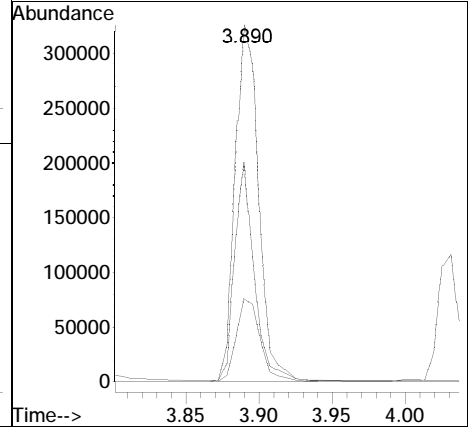
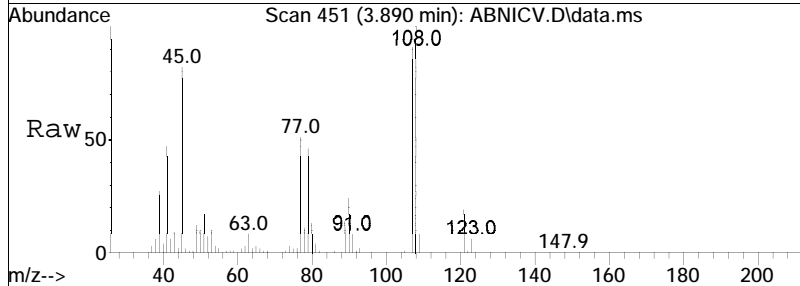
Tgt Ion	Resp	Lower	Upper
79	100		
77	67.1	50.5	75.7
108	84.0	70.1	105.1

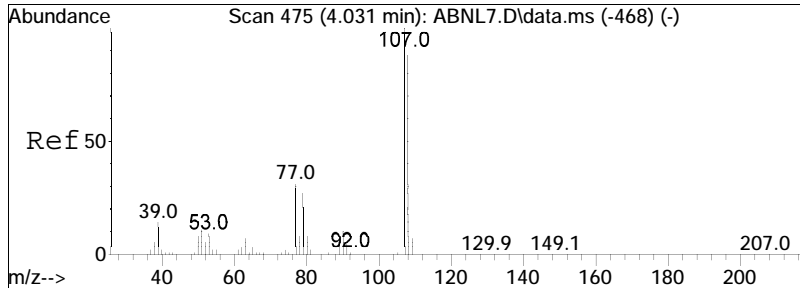




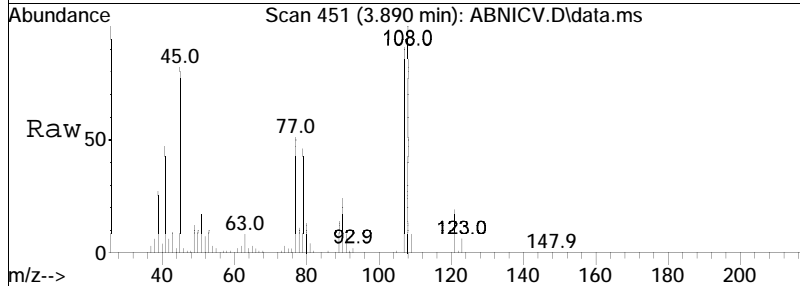
#14
 Bis(2-chloroisopropyl) ether
 Concen: 46.85 ug/ml
 RT: 3.890 min Scan# 451
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

Tgt Ion:	45	Resp:	365278
Ion Ratio	Lower	Upper	
45	100		
121	23.5	13.7	20.5#
77	51.4	28.2	42.2#

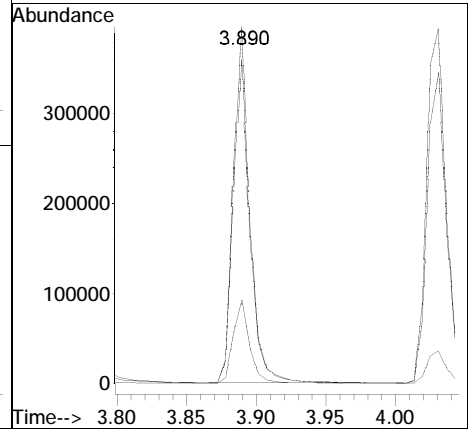
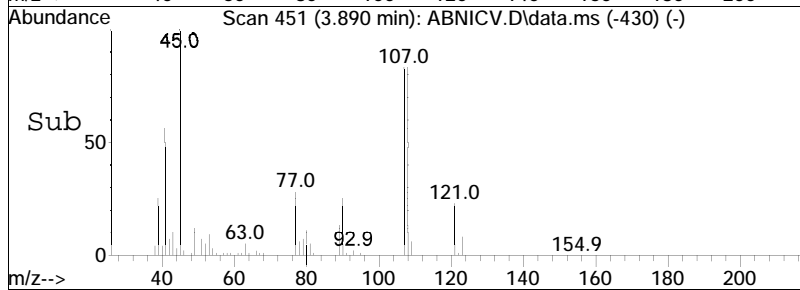


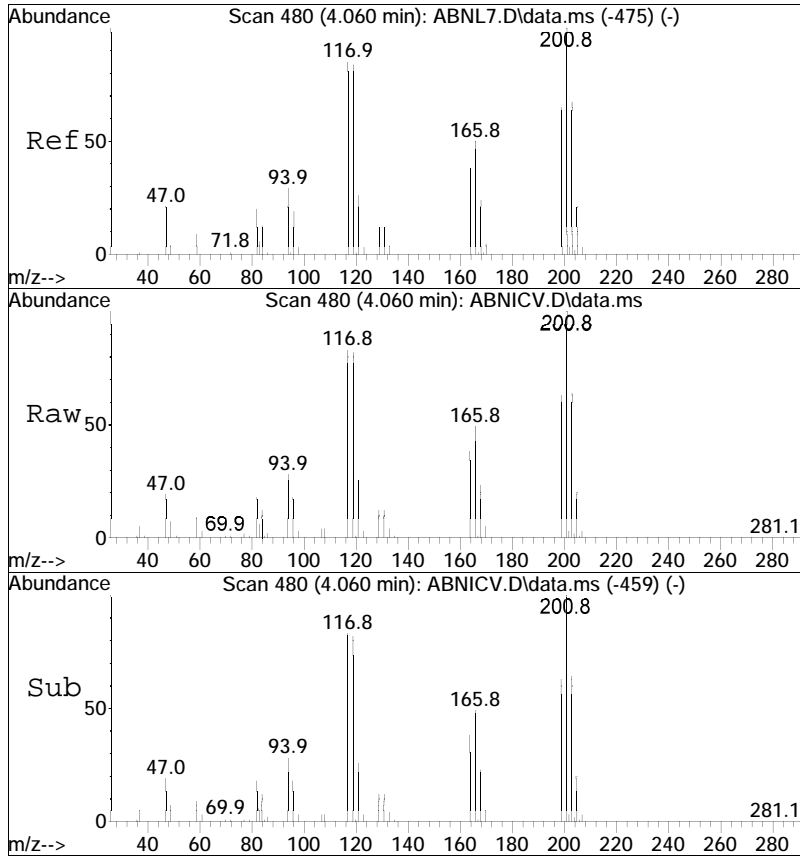


#15
 2-Methylphenol
 Concen: 48.05 ug/ml
 RT: 3.890 min Scan# 451
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am



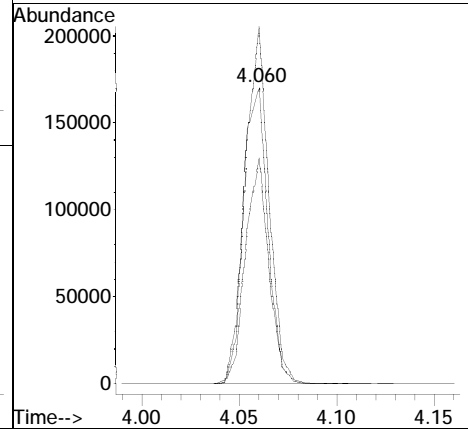
Tgt Ion	Ratio	Lower	Upper
108	100		
107	92.0	72.6	108.8
90	23.5	18.6	27.8

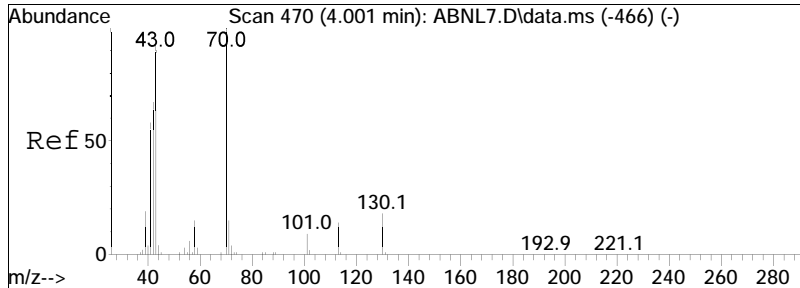




#16
 Hexachloroethane
 Concen: 46.09 ug/ml
 RT: 4.060 min Scan# 480
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

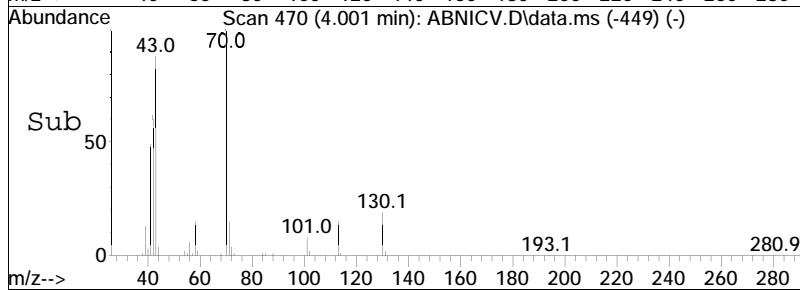
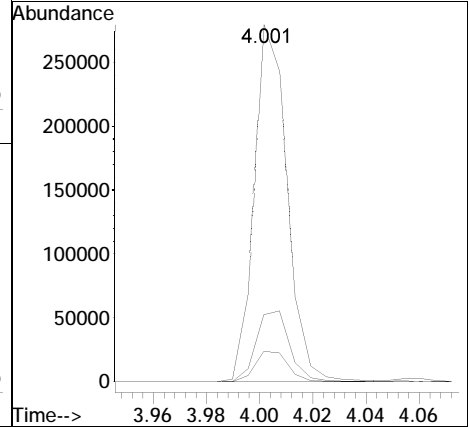
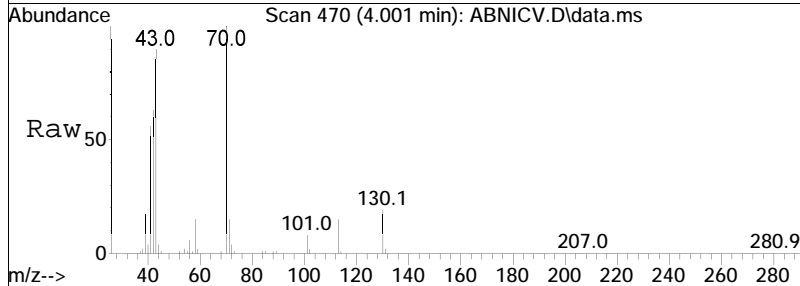
Tgt Ion	Resp	Lower	Upper
117	150829		
117	100		
201	112.8	75.4	113.0
199	71.3	48.0	72.0

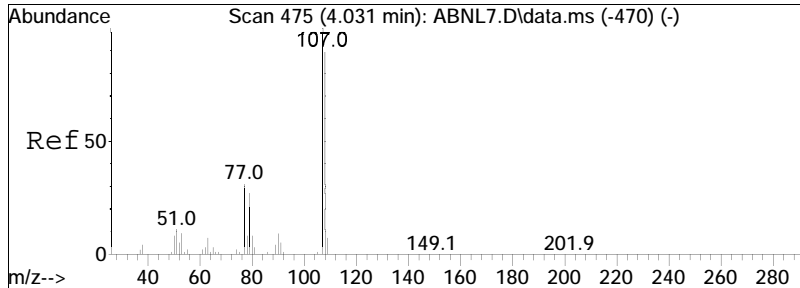




#17
 n-Nitrosodi-n-propylamine
 Concen: 47.70 ug/ml
 RT: 4.001 min Scan# 470
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

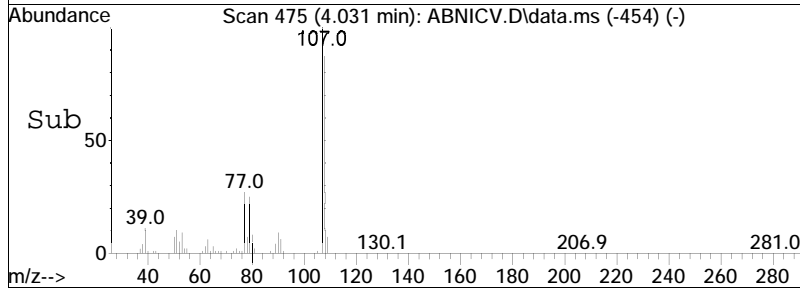
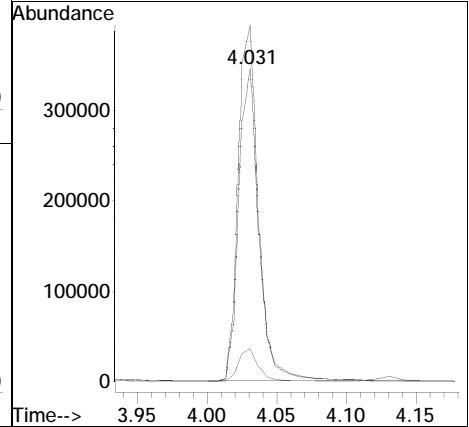
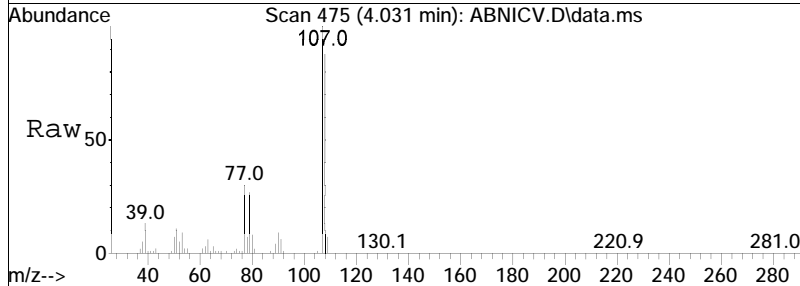
Tgt Ion	Resp	Lower	Upper
70	239603		
70	100		
130	20.3	15.7	23.5
101	8.6	6.7	10.1

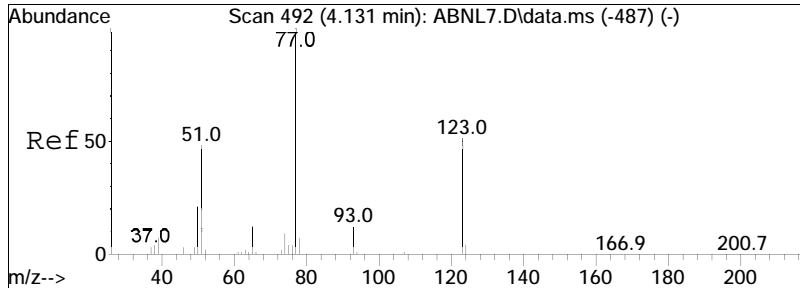




#18
 3-Methylphenol/4-Methylphenol
 Concen: 48.21 ug/ml
 RT: 4.031 min Scan# 475
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

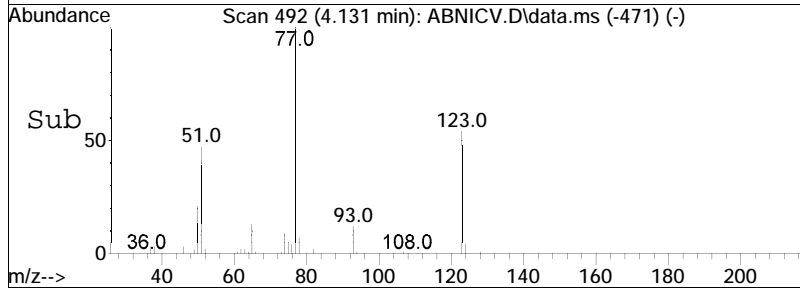
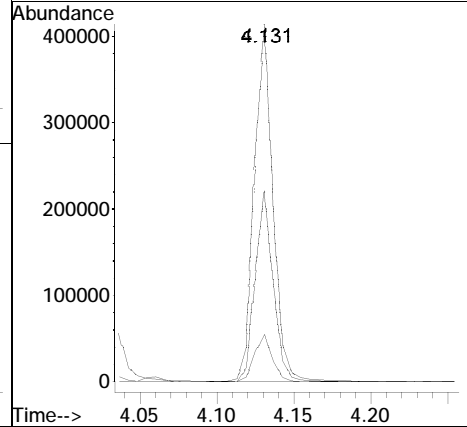
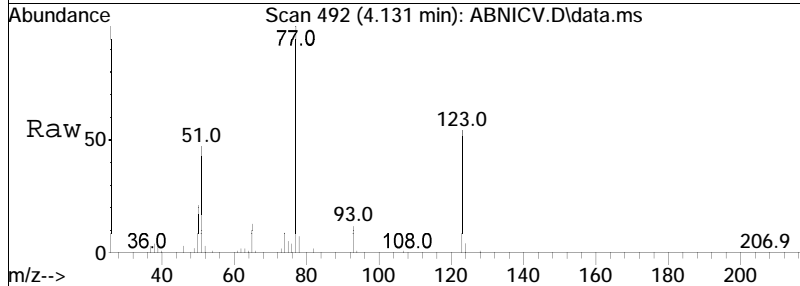
Tgt Ion	Ratio	Lower	Upper
108	100		
107	116.0	90.7	136.1
90	10.5	8.6	13.0

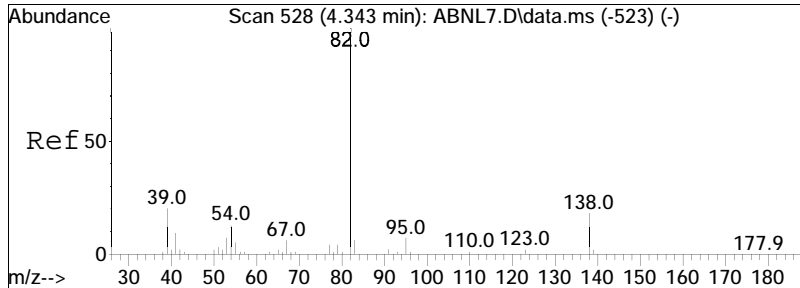




#20
 Nitrobenzene
 Concen: 46.00 ug/ml
 RT: 4.131 min Scan# 492
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

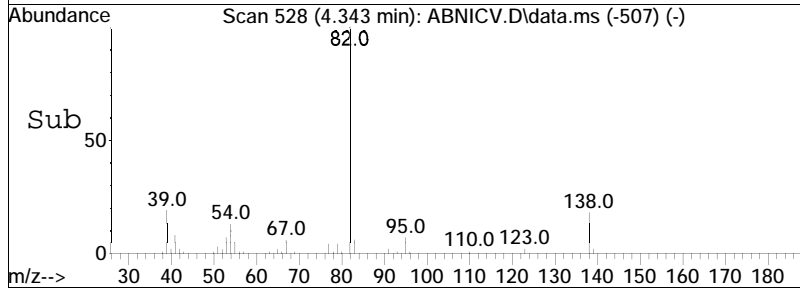
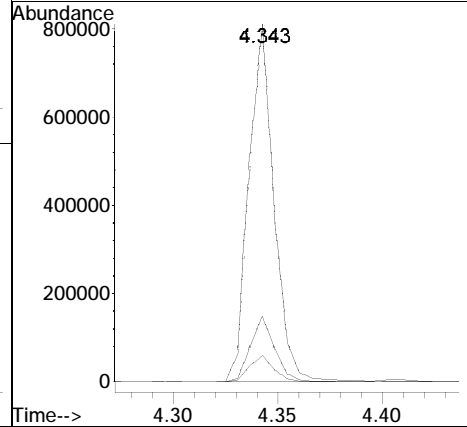
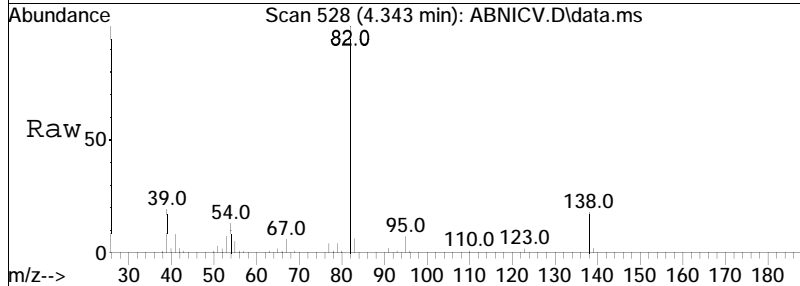
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
77	100		
123	52.3	41.4	62.0
65	13.2	11.0	16.4

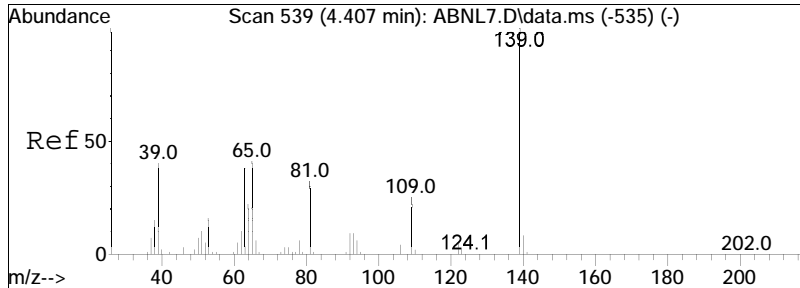




#21
 Isophorone
 Concen: 46.66 ug/ml
 RT: 4.343 min Scan# 528
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

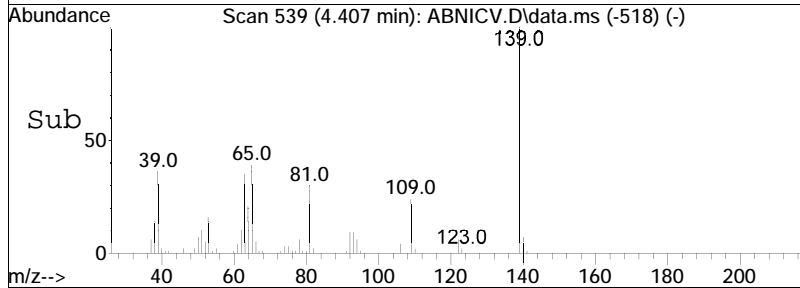
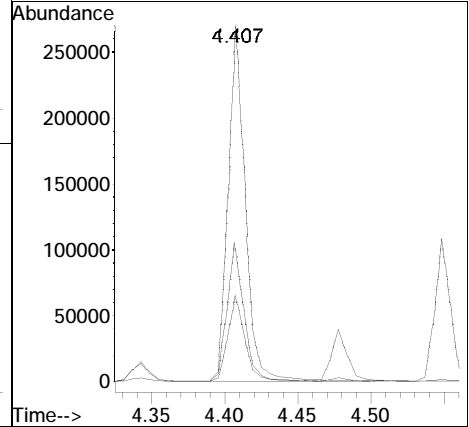
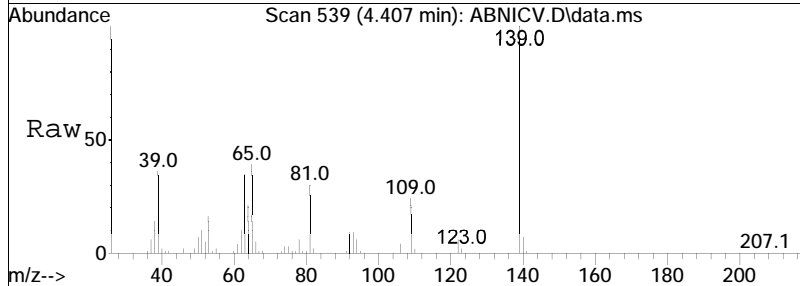
Tgt Ion	Resp	Lower	Upper
82	100		
138	18.0	13.9	20.9
95	7.4	5.3	7.9

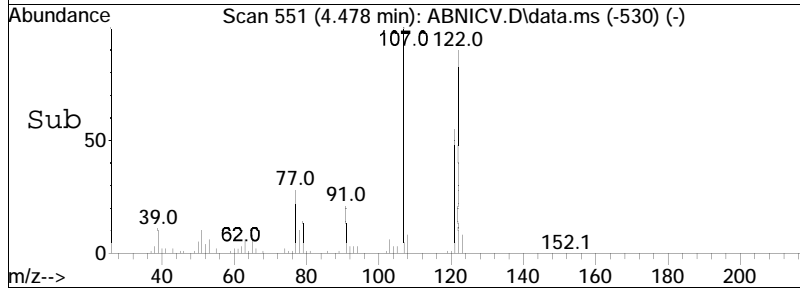
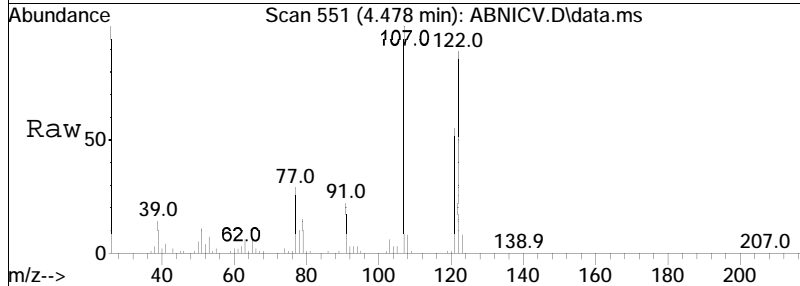
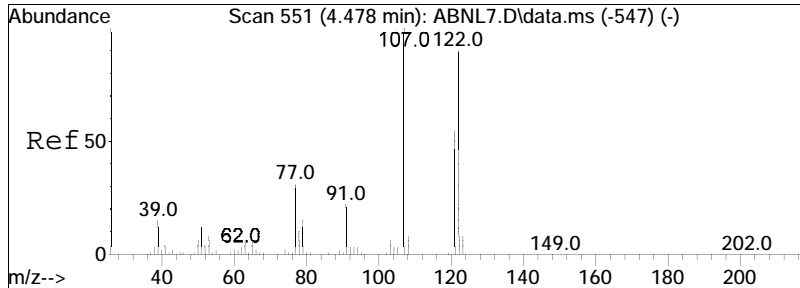




#22
 2-Nitrophenol
 Concen: 48.25 ug/ml
 RT: 4.407 min Scan# 539
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

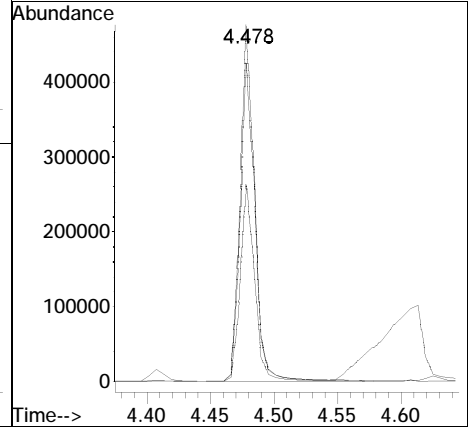
Tgt Ion	Ratio	Lower	Upper
139	100		
109	24.2	17.5	26.3
65	38.4	33.2	49.8

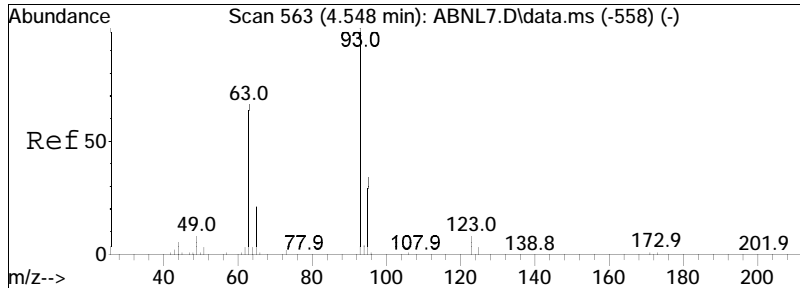




#23
 2,4-Dimethylphenol
 Concen: 48.20 ug/ml
 RT: 4.478 min Scan# 551
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

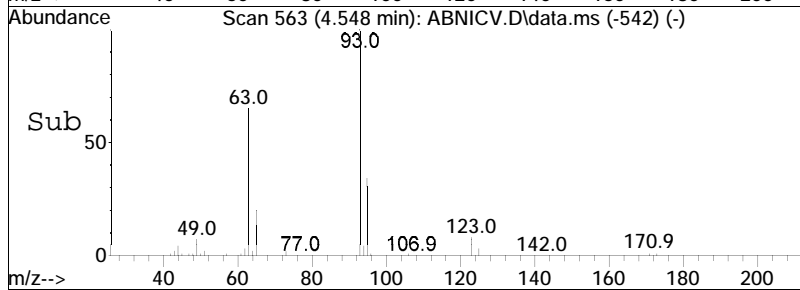
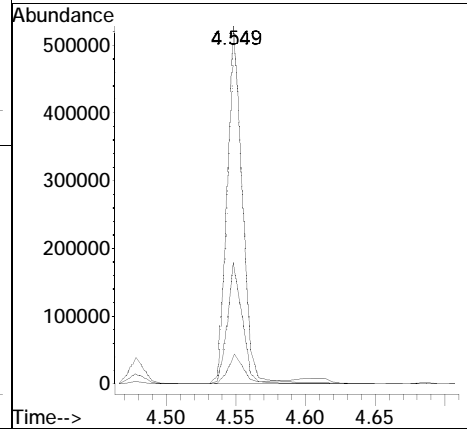
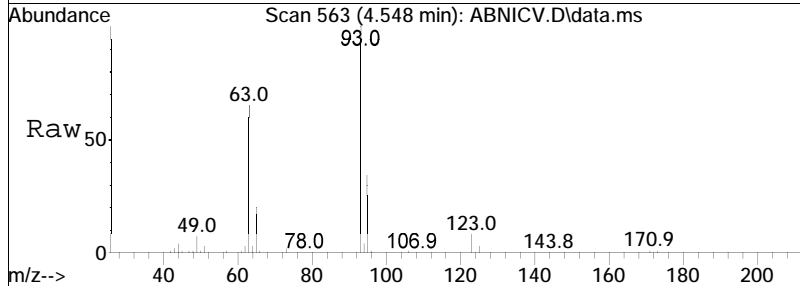
Tgt Ion	Resp	Lower	Upper
107	100		
121	54.9	43.4	65.2
122	89.6	73.7	110.5

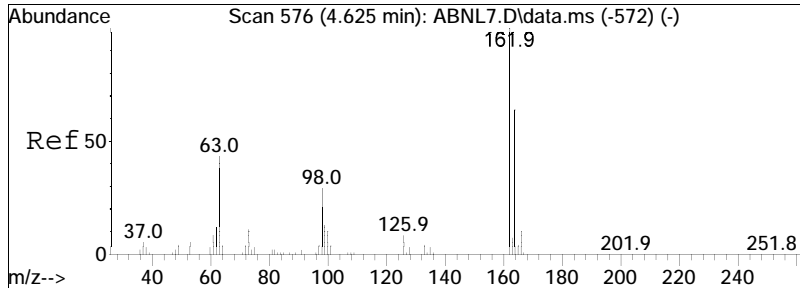




#24
 Bis(2-chloroethoxy)methane
 Concen: 46.93 ug/ml
 RT: 4.548 min Scan# 563
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

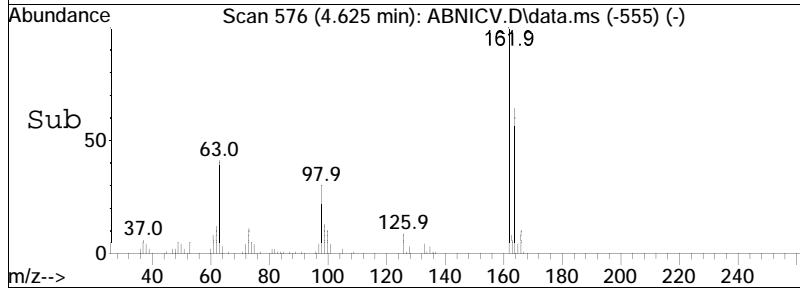
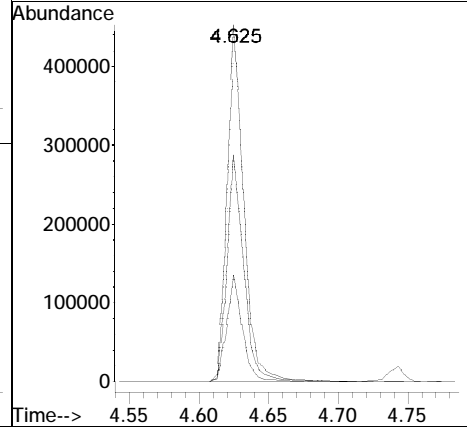
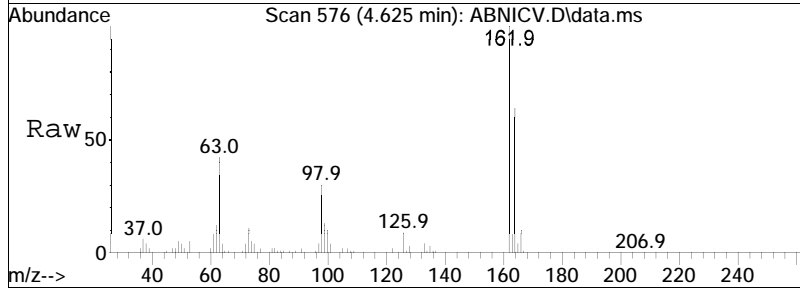
Tgt Ion:	93	Resp:	394209
Ion Ratio	Lower	Upper	
93	100		
95	33.8	27.2	40.8
123	8.8	7.6	11.4

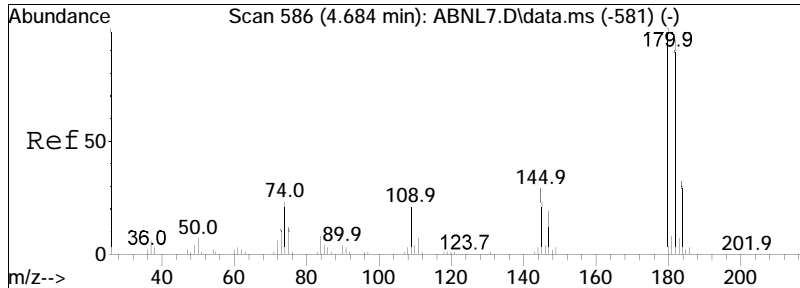




#25
 2,4-Dichlorophenol
 Concen: 48.29 ug/ml
 RT: 4.625 min Scan# 576
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

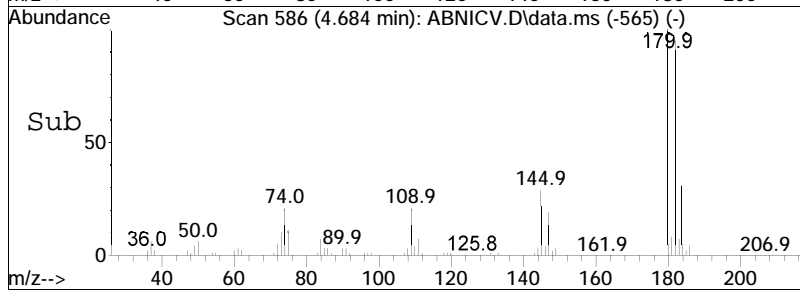
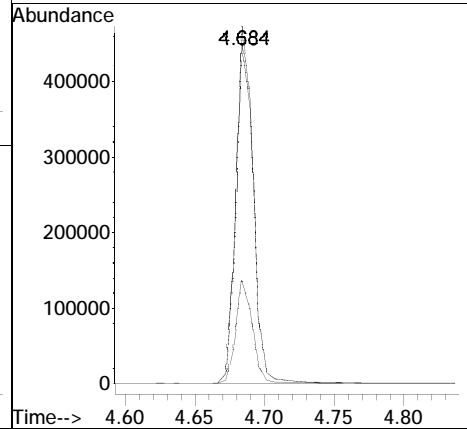
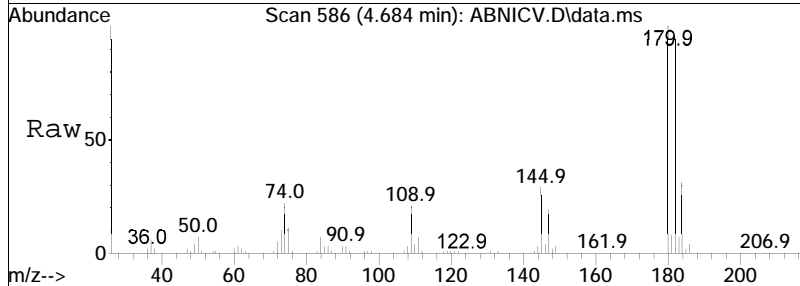
Tgt Ion	Resp	Lower	Upper
162	372158		
162	100		
164	63.9	51.5	77.3
98	28.7	27.5	41.3

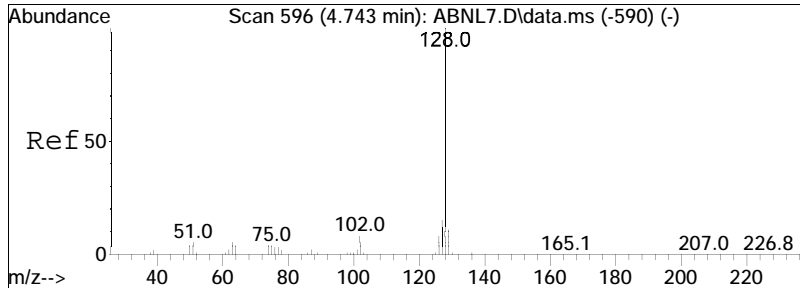




#26
 1,2,4-Trichlorobenzene
 Concen: 46.71 ug/ml
 RT: 4.684 min Scan# 586
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

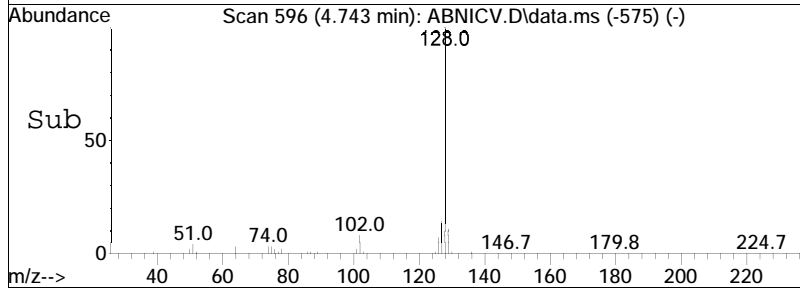
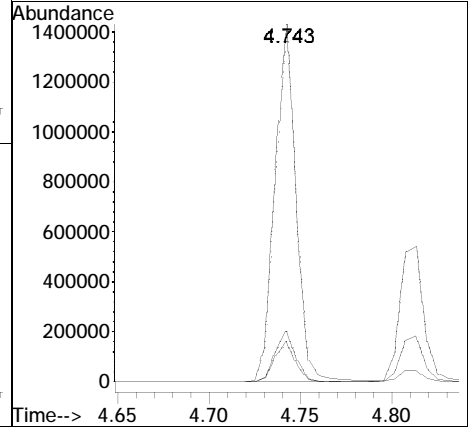
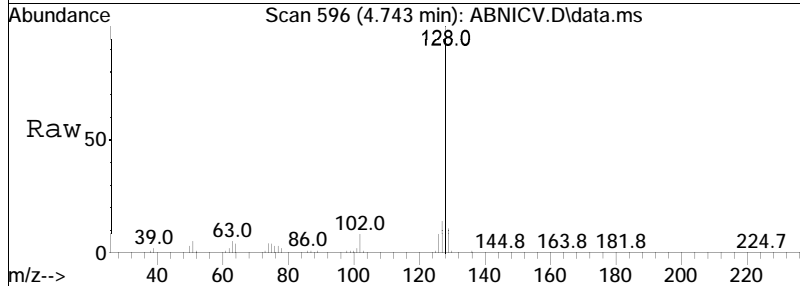
Tgt Ion	Resp	Lower	Upper
180	402468		
180	100		
182	96.1	77.0	115.4
145	28.5	24.2	36.4

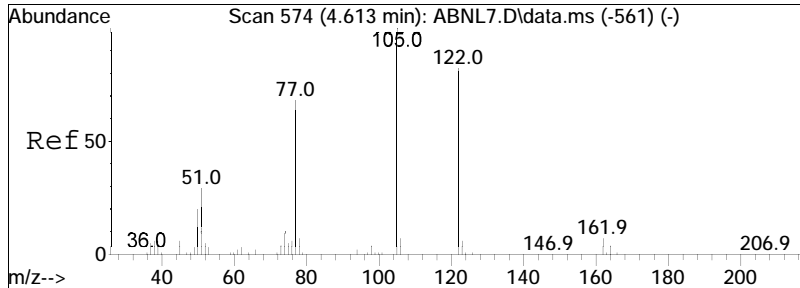




#36
 Naphthalene
 Concen: 46.59 ug/ml
 RT: 4.743 min Scan# 596
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

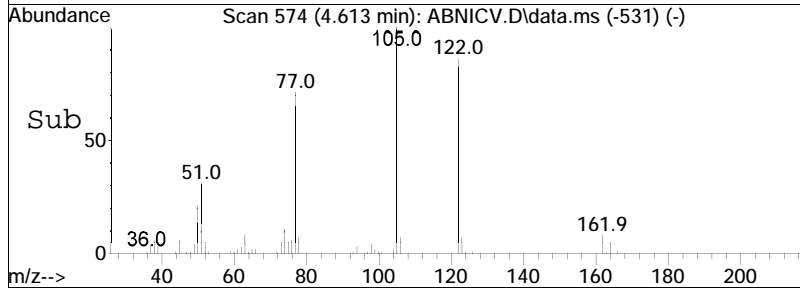
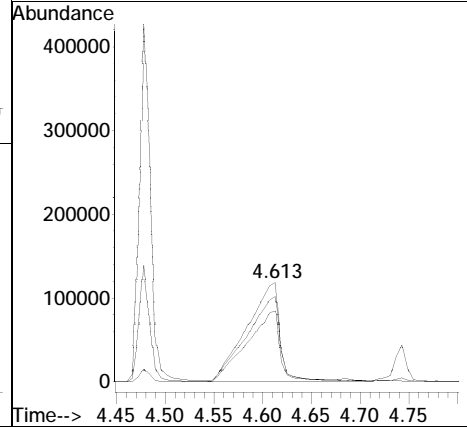
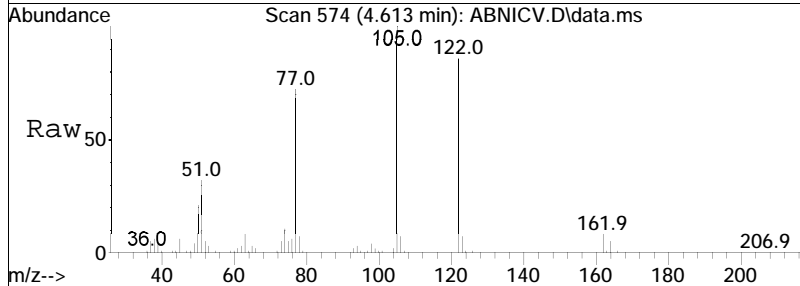
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.4	14.2
127	14.0	11.6	17.4

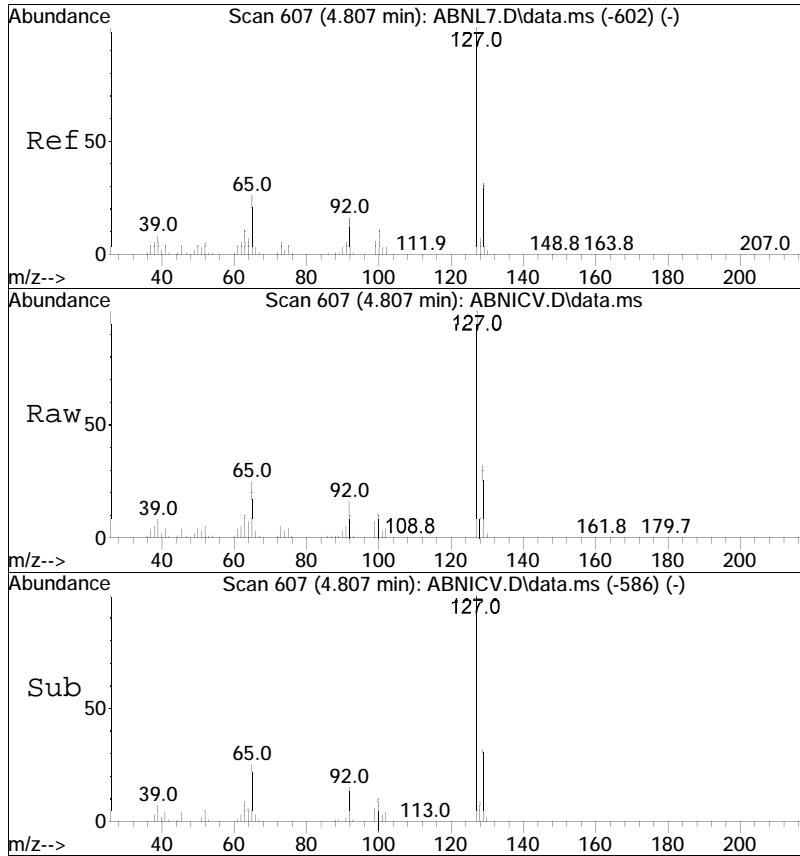




#37
 Benzoic Acid
 Concen: 49.60 ug/ml
 RT: 4.613 min Scan# 574
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

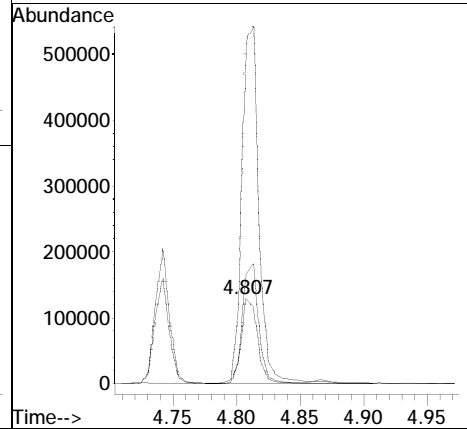
Tgt Ion	Resp	Lower	Upper
105	100		
122	84.9	70.9	106.3
77	70.8	55.9	83.9

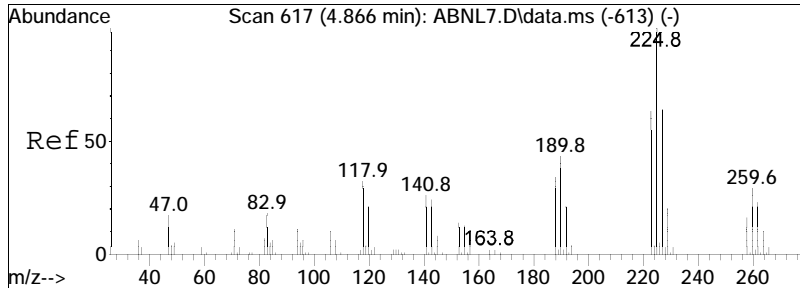




#38
 4-Chloroaniline
 Concen: 47.94 ug/ml
 RT: 4.807 min Scan# 607
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

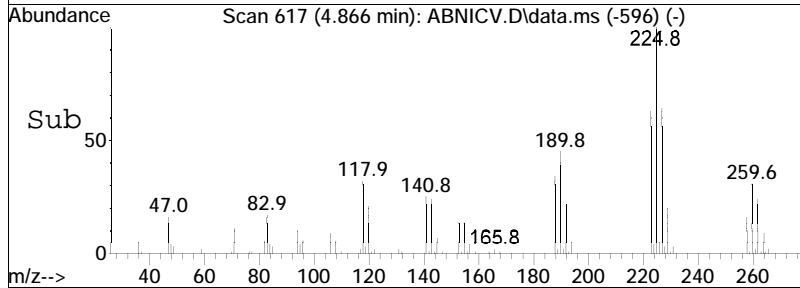
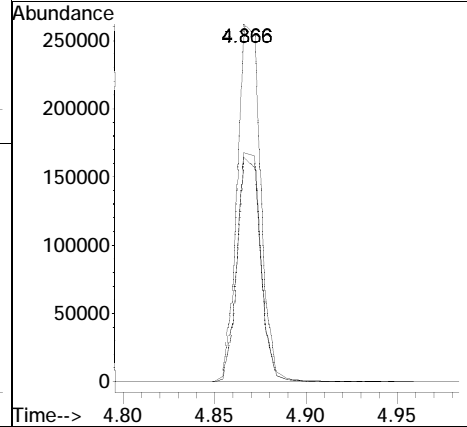
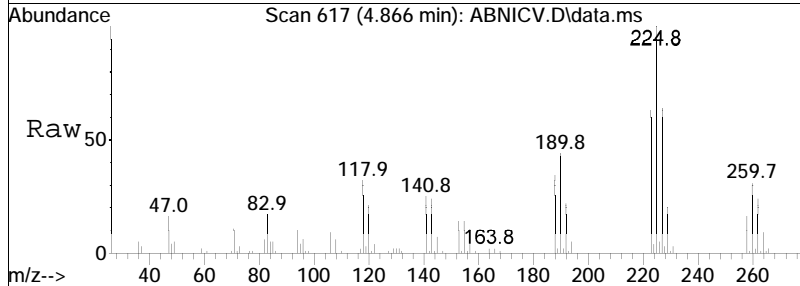
Tgt Ion:	Resp:	Lower	Upper
65	118293		
127	423.4	303.0	454.6
129	137.3	99.3	148.9

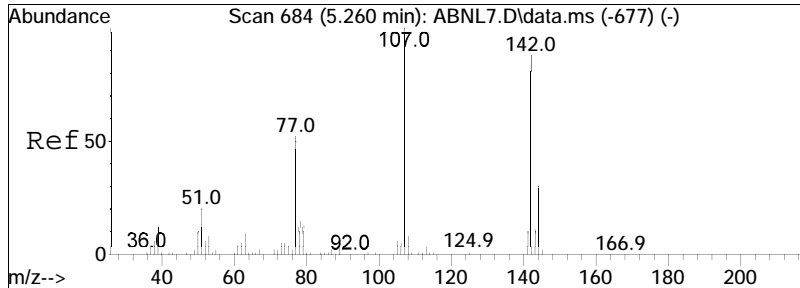




#39
 Hexachlorobutadiene
 Concen: 47.05 ug/ml
 RT: 4.866 min Scan# 617
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

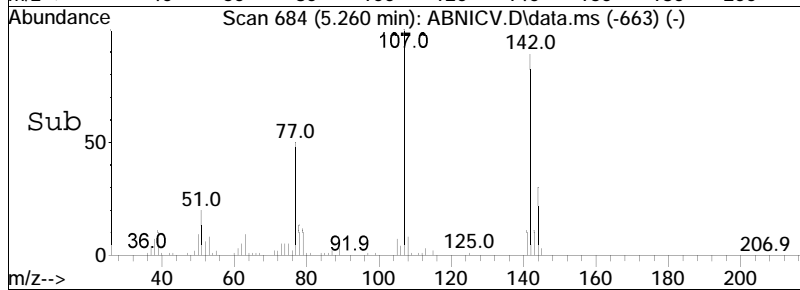
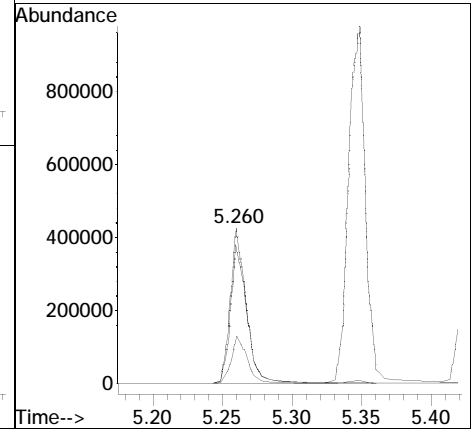
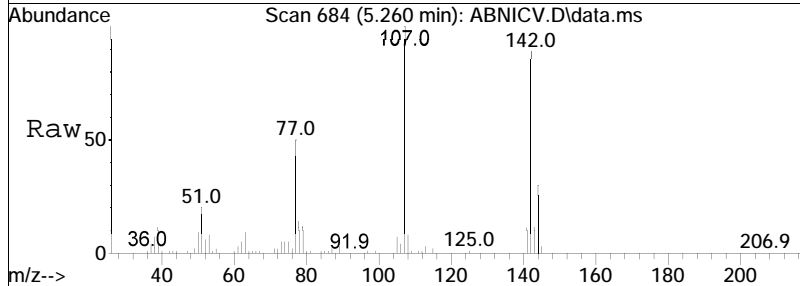
Tgt Ion	Resp	Lower	Upper
225	100		
223	62.5	50.9	76.3
227	64.4	50.6	75.8

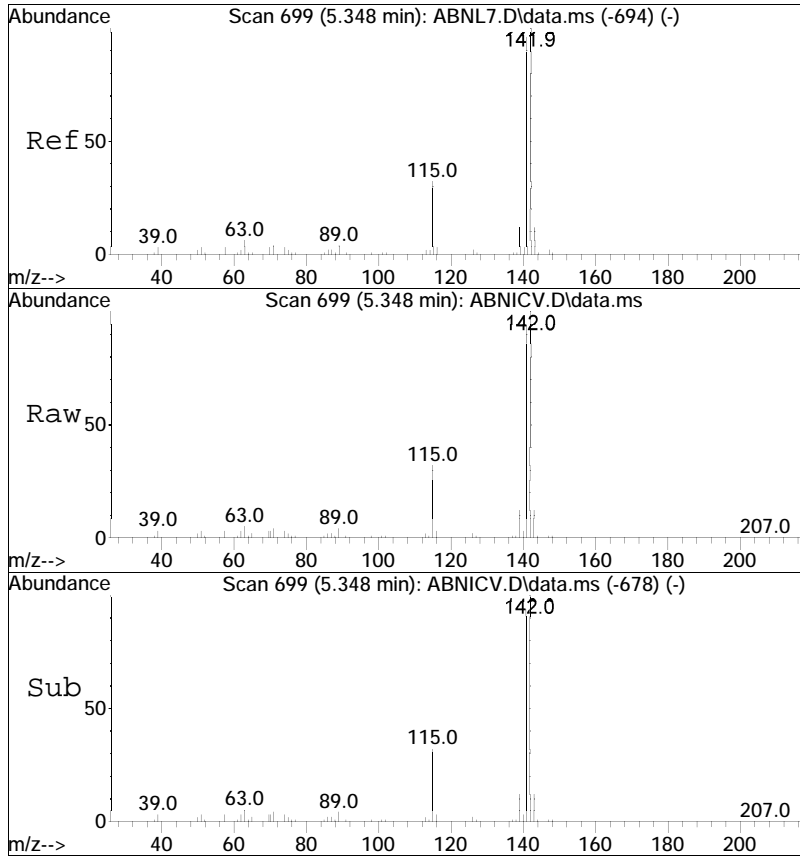




#40
 p-Chloro-m-cresol
 Concen: 49.49 ug/ml
 RT: 5.260 min Scan# 684
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

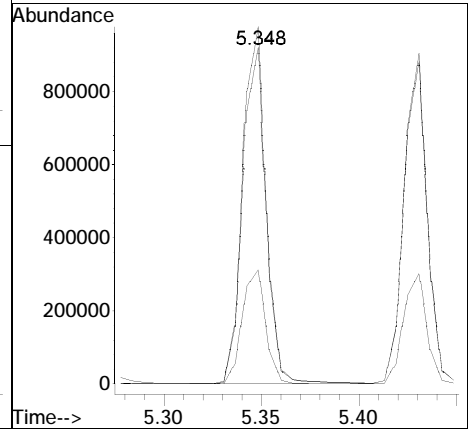
Tgt Ion	Resp	Lower	Upper
107	100		
144	30.4	22.6	33.8
142	89.6	69.7	104.5

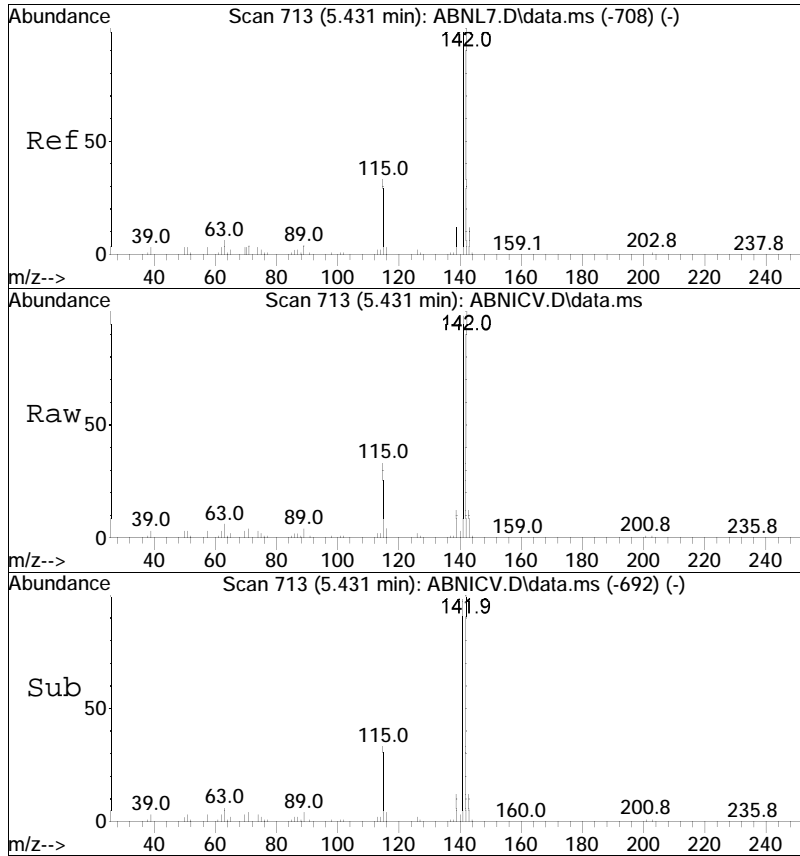




#41
 2-Methylnaphthalene
 Concen: 49.60 ug/ml
 RT: 5.348 min Scan# 699
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

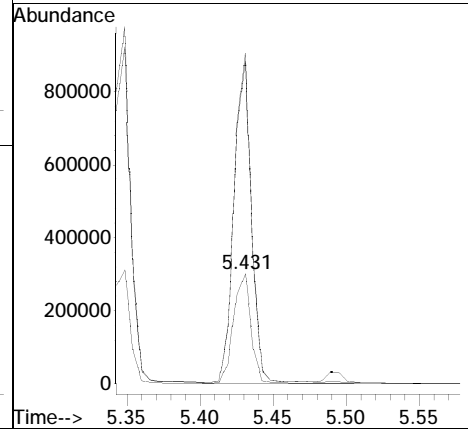
Tgt Ion	Ratio	Resp	Lower	Upper
142	100	815513		
141	94.5		75.7	113.5
115	32.4		24.4	36.6

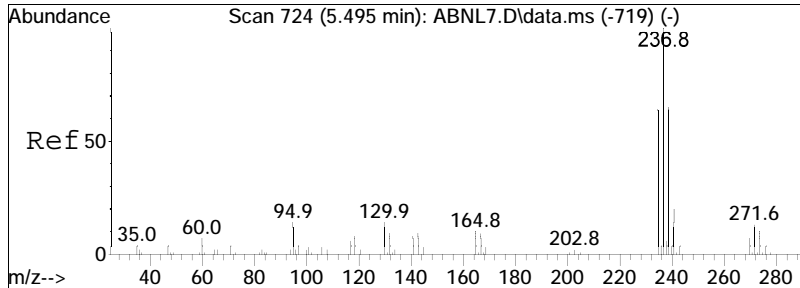




#42
 1-Methylnaphthalene
 Concen: 47.63 ug/ml
 RT: 5.431 min Scan# 713
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

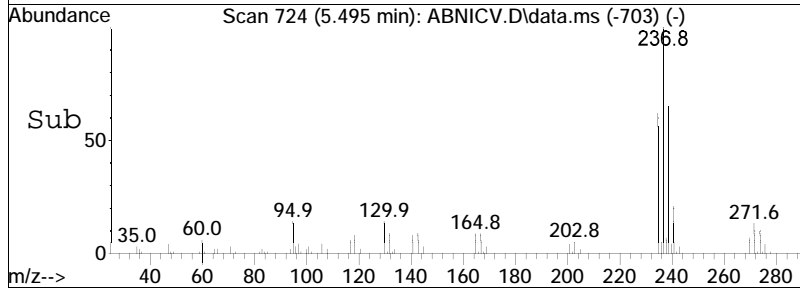
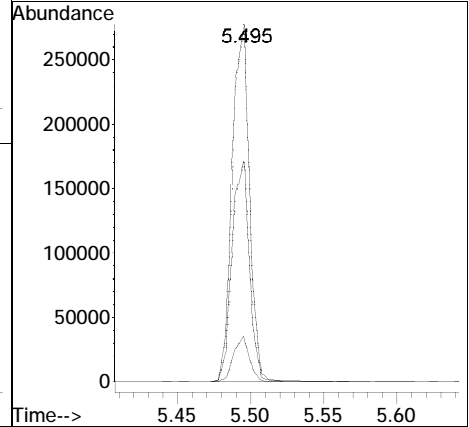
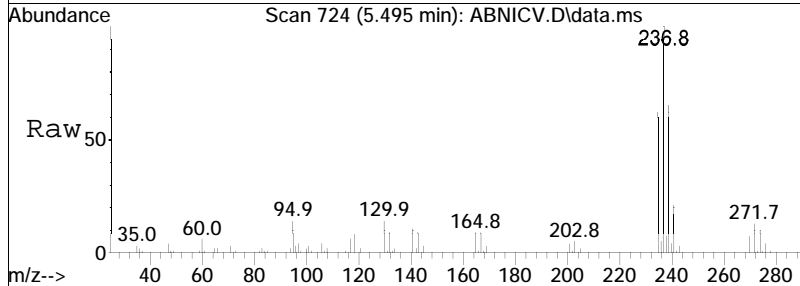
Tgt Ion	Resp	Lower	Upper
115	100		
141	287.8	248.3	372.5
142	291.0	258.0	387.0

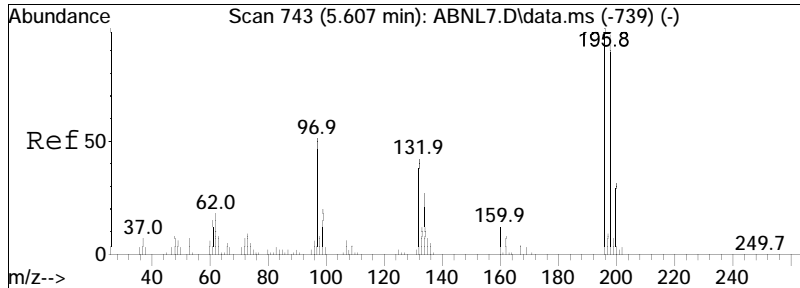




#43
 Hexachlorocyclopentadiene
 Concen: 45.86 ug/ml
 RT: 5.495 min Scan# 724
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

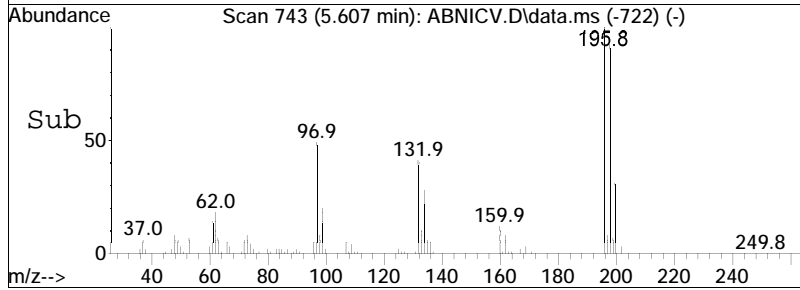
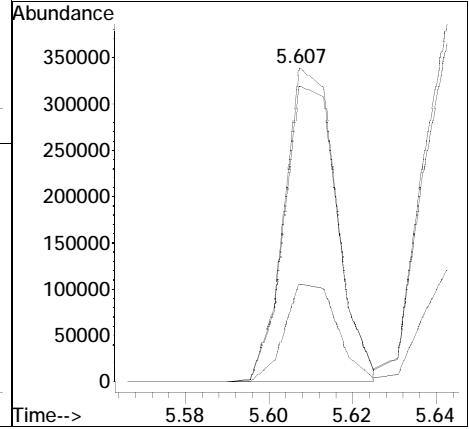
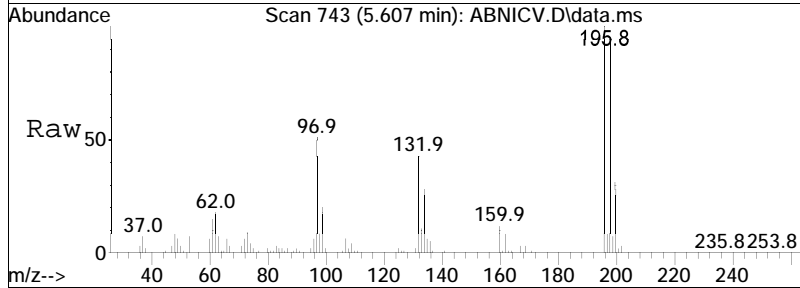
Tgt Ion	Resp	Lower	Upper
237	100		
235	62.0	50.8	76.2
272	11.9	10.4	15.6

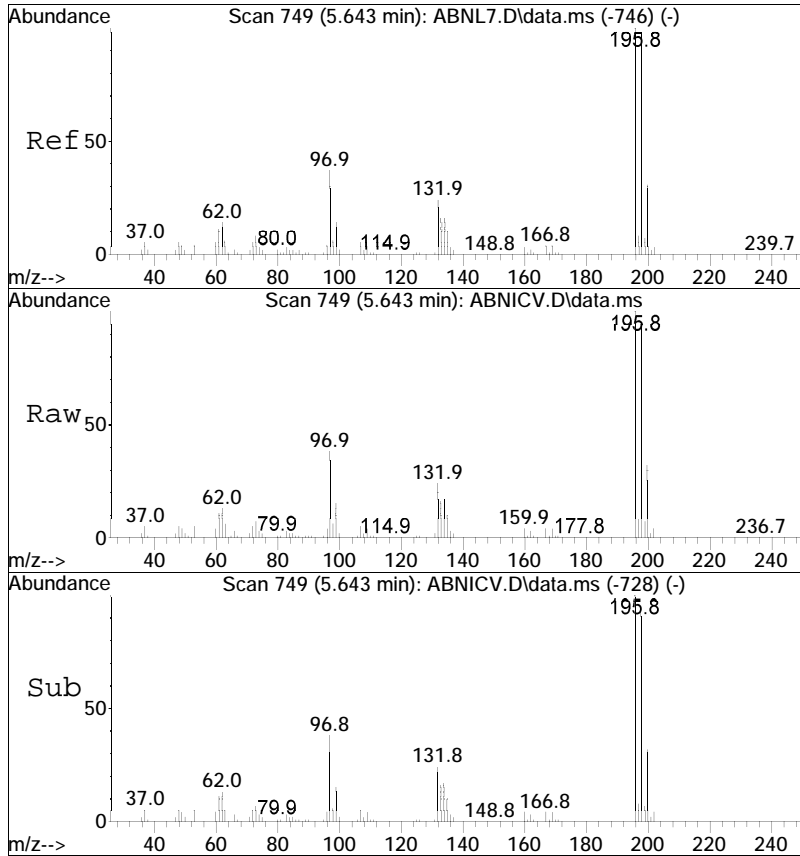




#44
 2,4,6-Trichlorophenol
 Concen: 49.05 ug/ml
 RT: 5.607 min Scan# 743
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

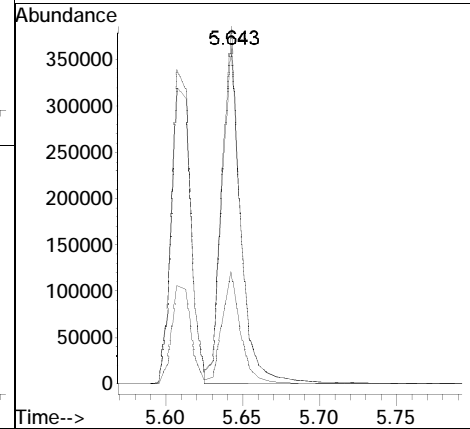
Tgt Ion	Resp	Lower	Upper
196	100		
198	95.6	76.8	115.2
200	31.4	25.0	37.4

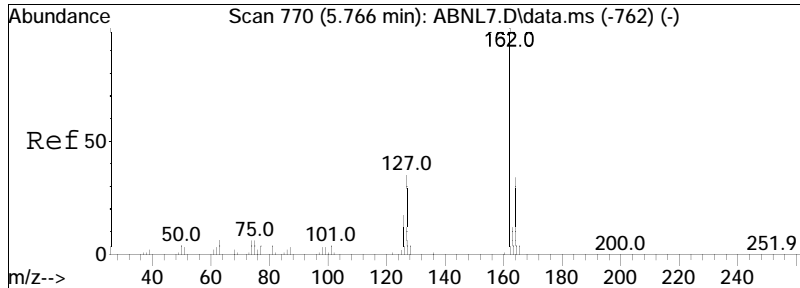




#45
 2,4,5-Trichlorophenol
 Concen: 49.46 ug/ml
 RT: 5.643 min Scan# 749
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

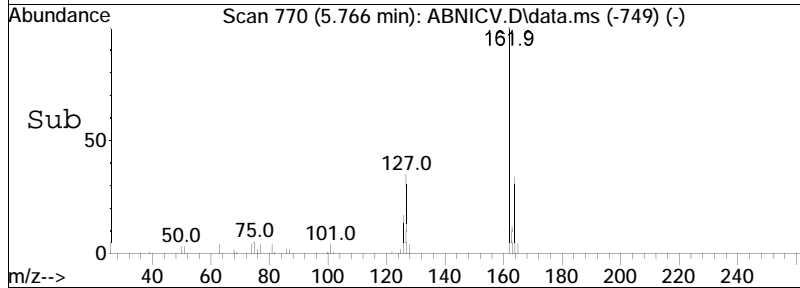
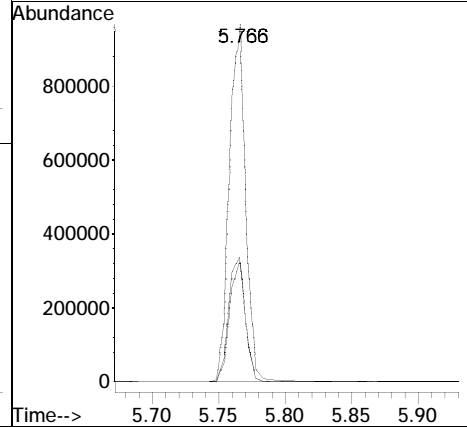
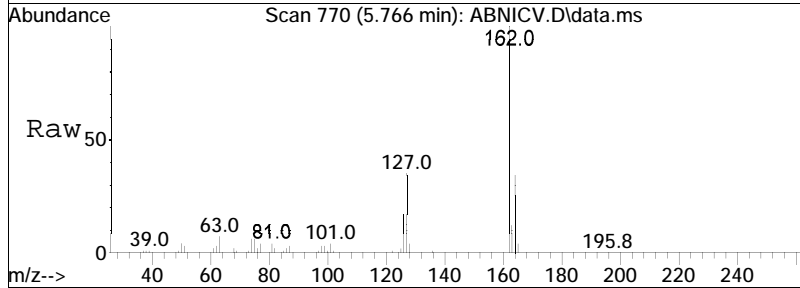
Tgt Ion	Resp	Lower	Upper
196	100		
200	31.5	25.4	38.0
198	96.0	79.1	118.7

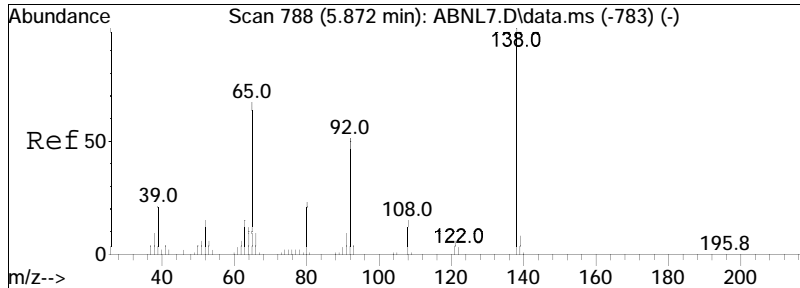




#47
 2-Chloronaphthalene
 Concen: 46.57 ug/ml
 RT: 5.766 min Scan# 770
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

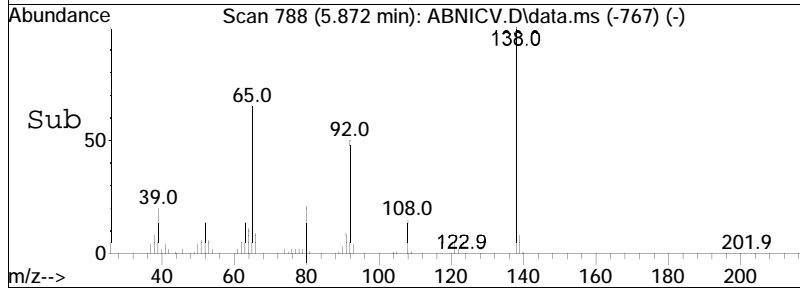
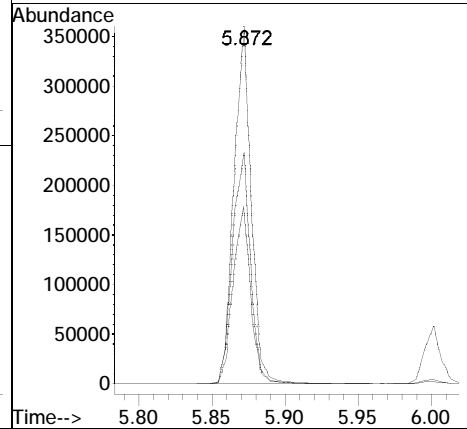
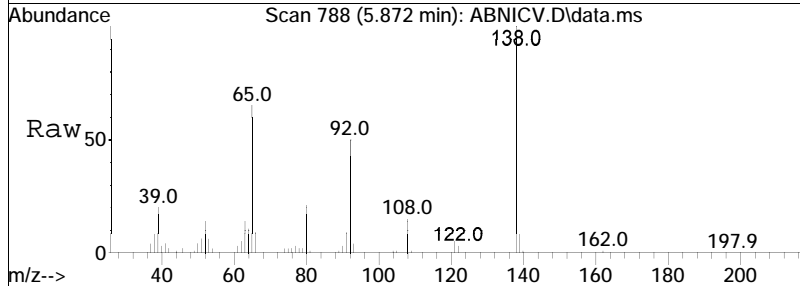
Tgt Ion	Ratio	Lower	Upper
162	100		
127	35.9	31.0	46.6
164	33.2	27.0	40.6

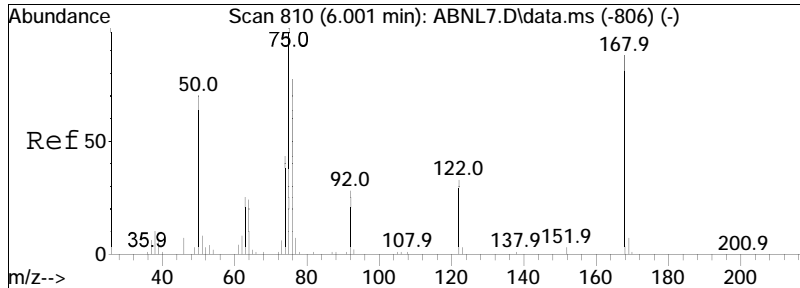




#48
 2-Nitroaniline
 Concen: 49.95 ug/ml
 RT: 5.872 min Scan# 788
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

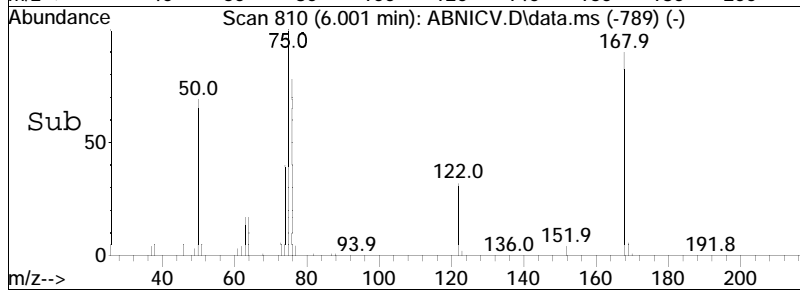
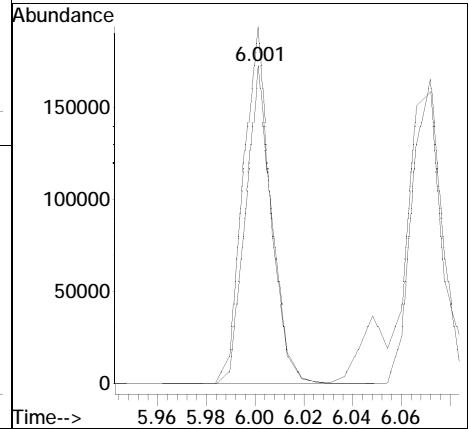
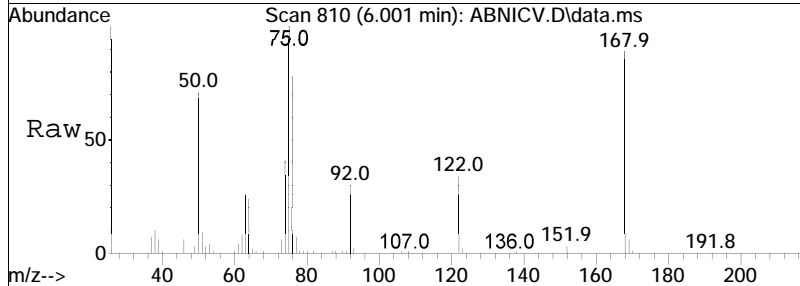
Tgt Ion	Ratio	Lower	Upper
138	100		
92	50.8	44.7	67.1
65	68.1	62.6	94.0

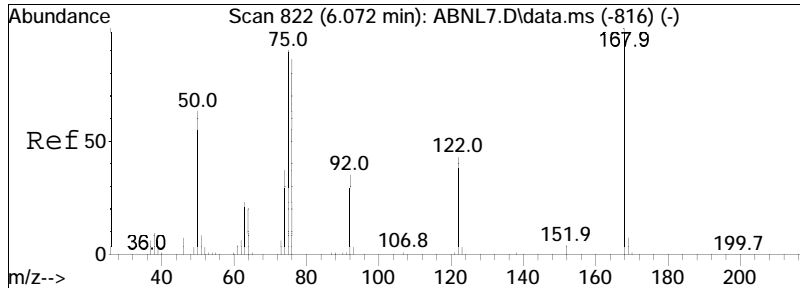




#49
 1,4-Dinitrobenzene
 Concen: 49.86 ug/ml
 RT: 6.001 min Scan# 810
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

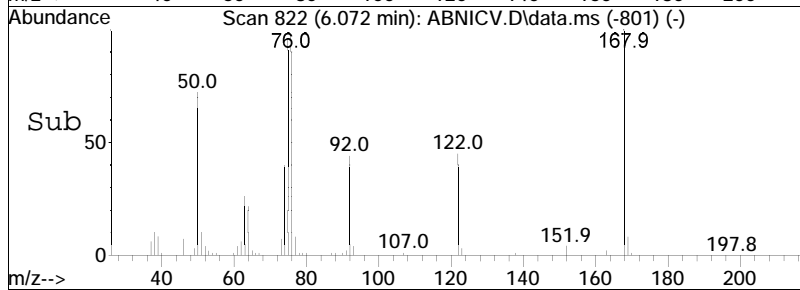
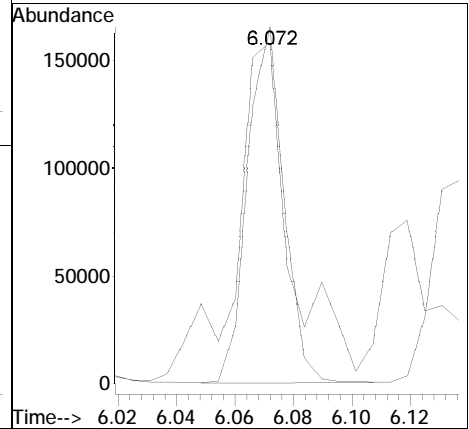
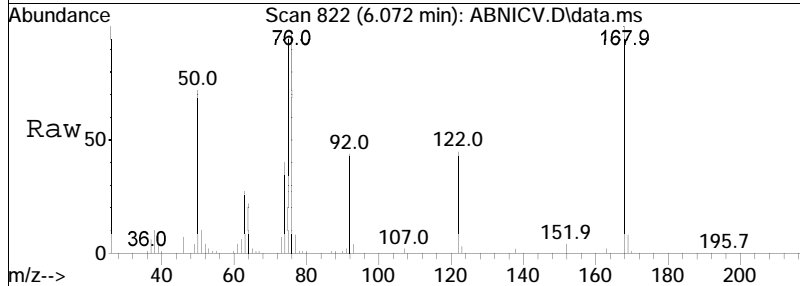
Tgt Ion	Resp	Lower	Upper
168	131207		
168	100		
75	115.7	99.9	149.9

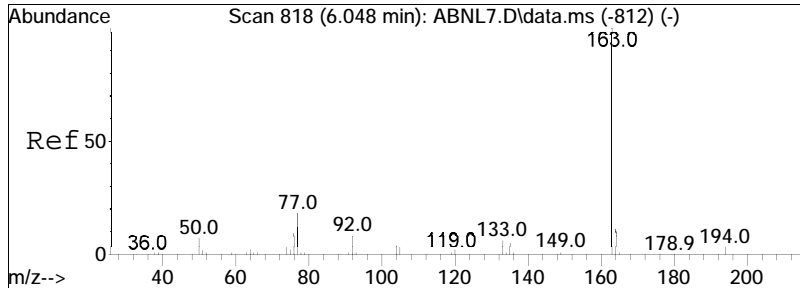




#50
 1,3-Dinitrobenzene
 Concen: 47.56 ug/ml
 RT: 6.072 min Scan# 822
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

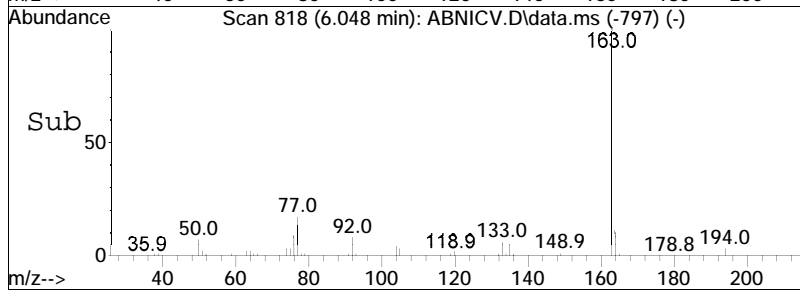
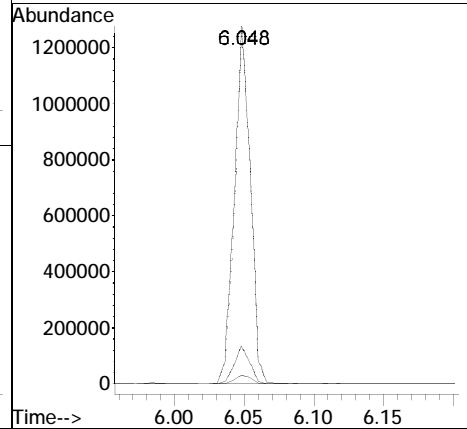
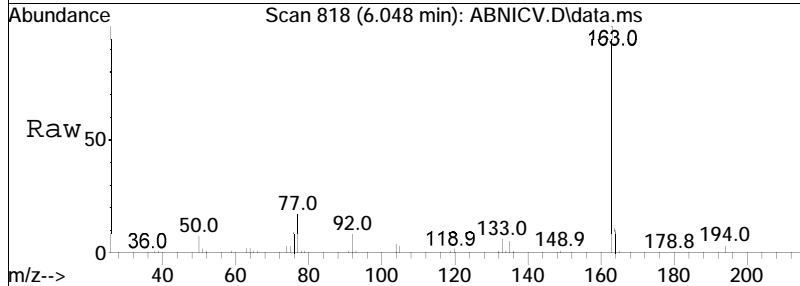
Tgt Ion: 168 Resp: 143275
 Ion Ratio Lower Upper
 168 100
 75 144.8 102.7 154.1

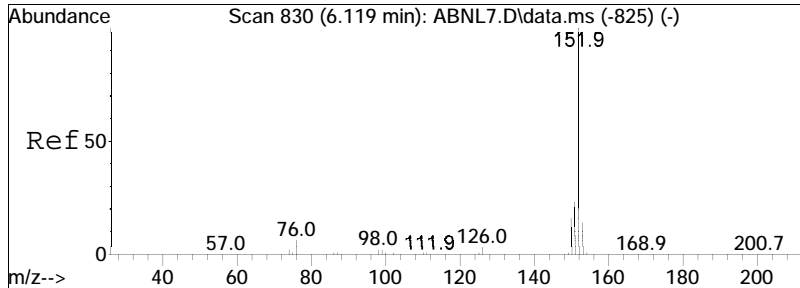




#51
 Dimethyl phthalate
 Concen: 46.14 ug/ml
 RT: 6.048 min Scan# 818
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

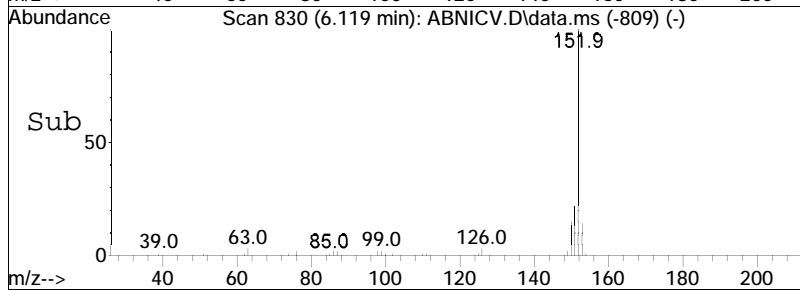
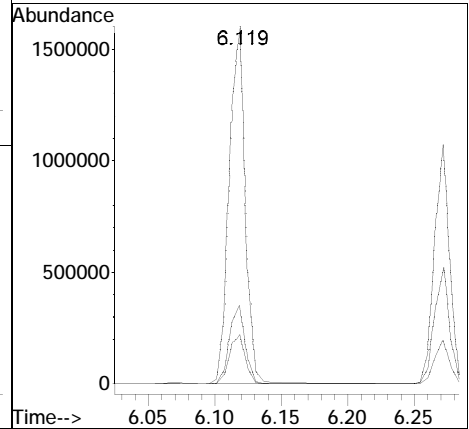
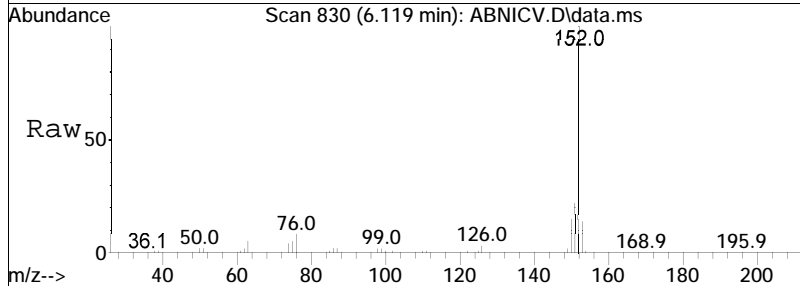
Tgt Ion	Ratio	Lower	Upper
163	100		
194	2.5	2.0	3.0
164	10.5	8.6	12.8

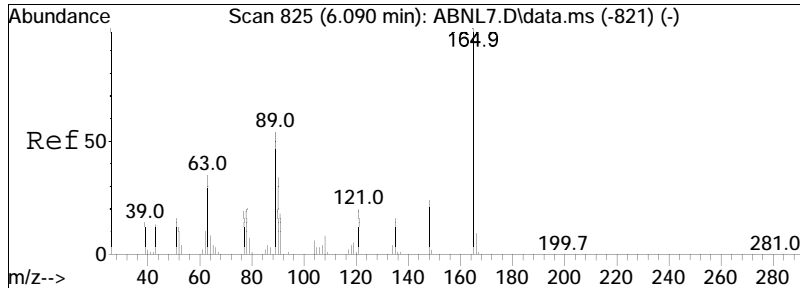




#52
 Acenaphthylene
 Concen: 47.09 ug/ml
 RT: 6.119 min Scan# 830
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

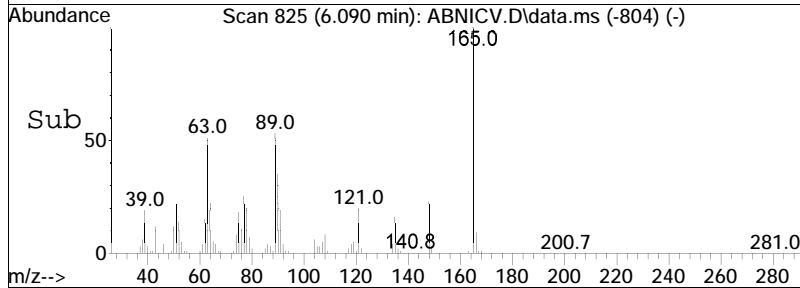
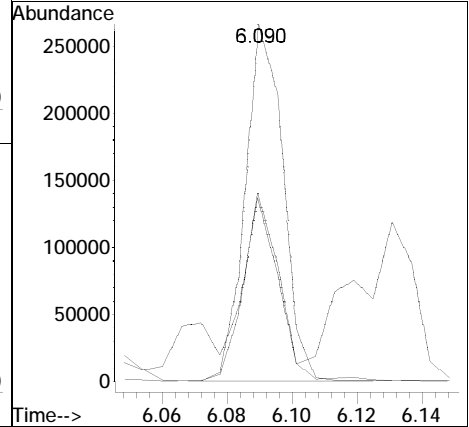
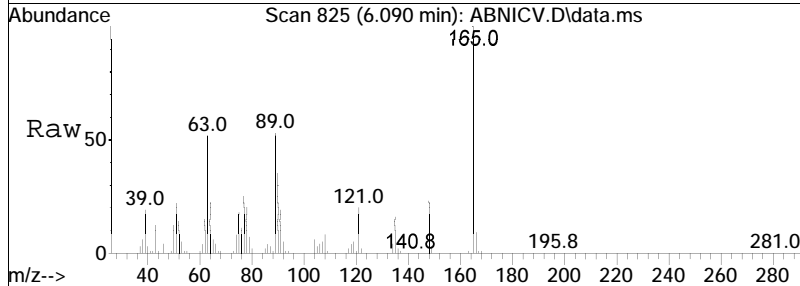
Tgt Ion	Resp	Lower	Upper
152	100		
151	21.6	17.5	26.3
153	13.6	11.3	16.9

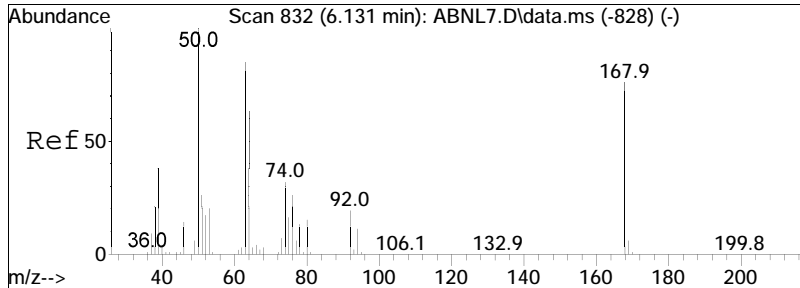




#53
 2,6-Dinitrotoluene
 Concen: 47.96 ug/ml
 RT: 6.090 min Scan# 825
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

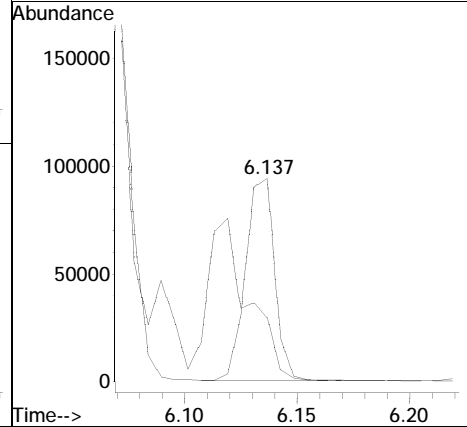
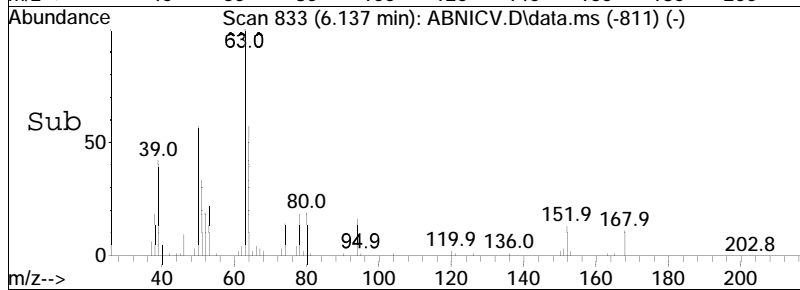
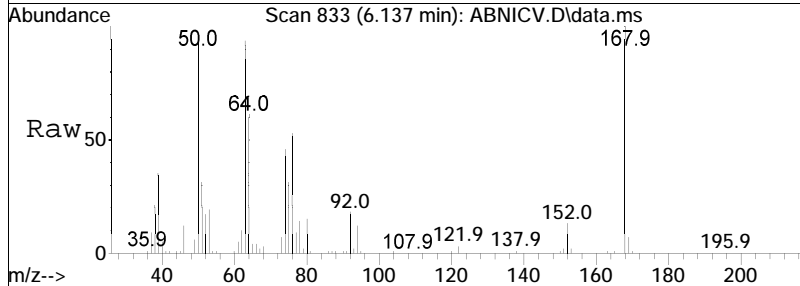
Tgt Ion	Ratio	Lower	Upper
165	100		
89	50.8	39.0	58.6
63	72.4	38.5	57.7#

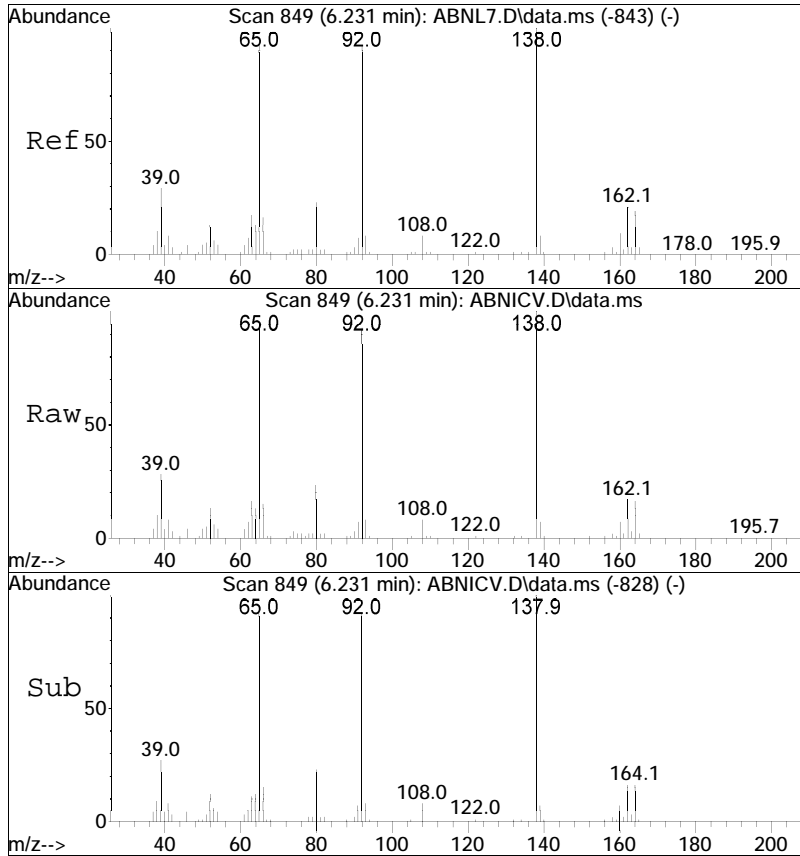




#54
 1,2-Dinitrobenzene
 Concen: 46.07 ug/ml
 RT: 6.137 min Scan# 833
 Delta R.T. 0.006 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

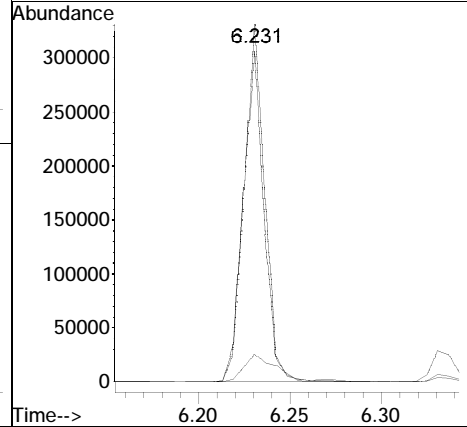
Tgt Ion: 168 Resp: 84687
 Ion Ratio Lower Upper
 168 100
 75 111.9 90.4 135.6

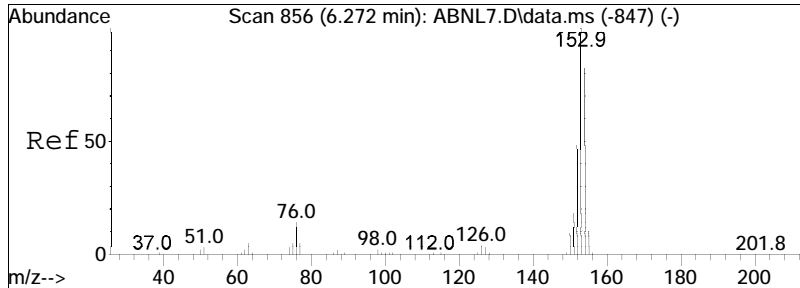




#64
 3-Nitroaniline
 Concen: 48.17 ug/ml
 RT: 6.231 min Scan# 849
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

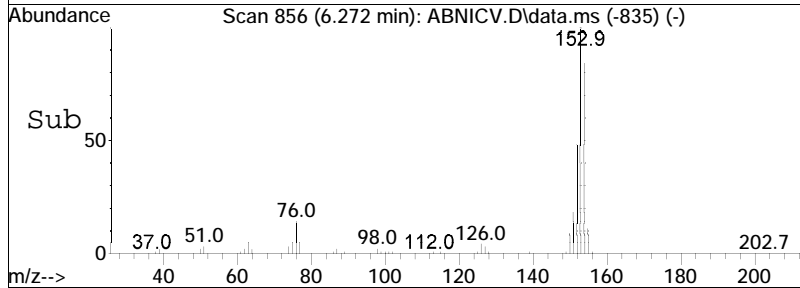
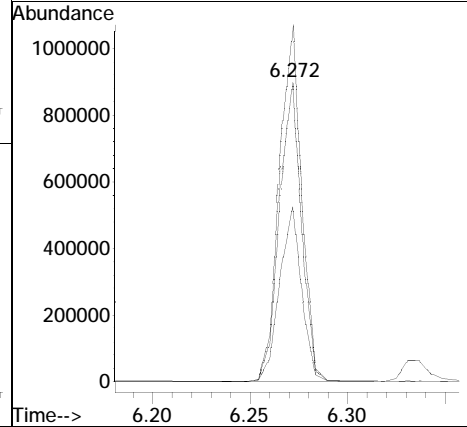
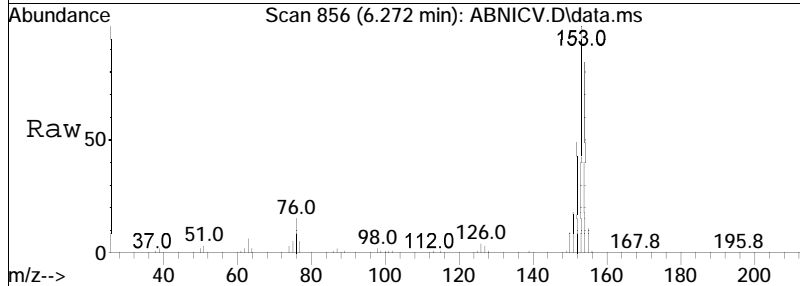
Tgt Ion	Ratio	Lower	Upper
138	100		
92	92.5	80.2	120.4
108	11.6	7.2	10.8#

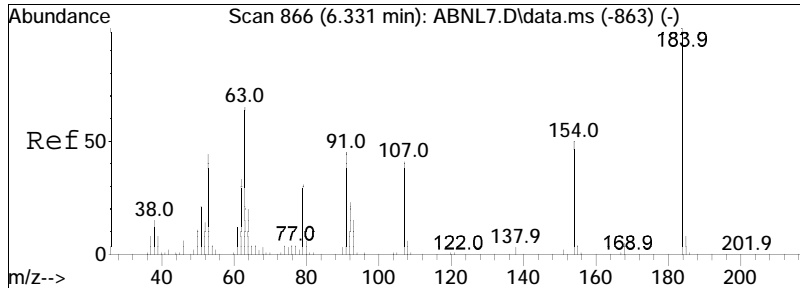




#65
 Acenaphthene
 Concen: 42.12 ug/ml
 RT: 6.272 min Scan# 856
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

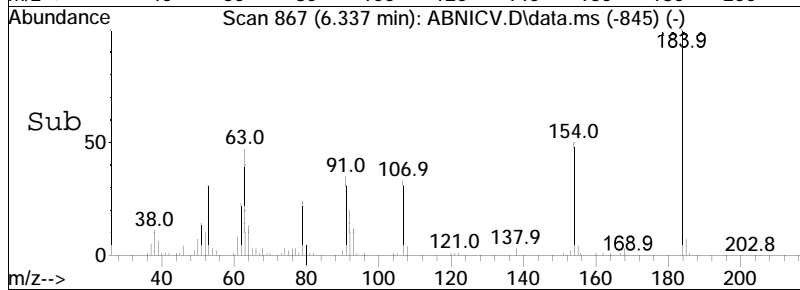
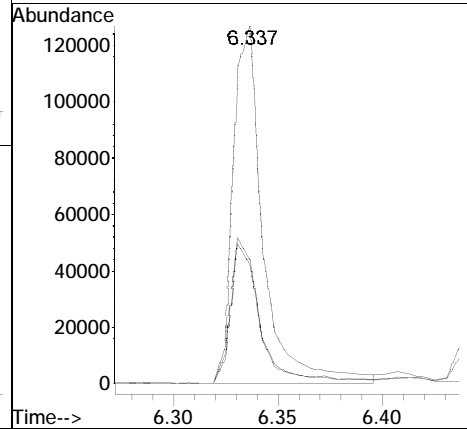
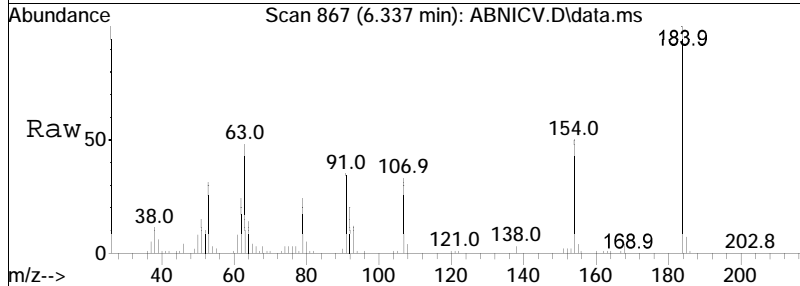
Tgt Ion	Resp	Lower	Upper
154	100		
153	120.3	95.8	143.8
152	57.5	46.3	69.5

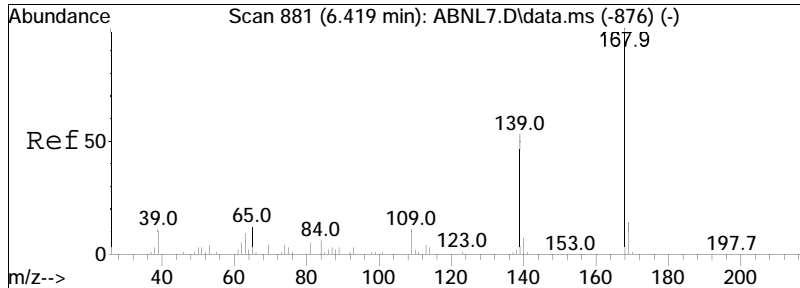




#66
 2,4-Dinitrophenol
 Concen: 43.20 ug/ml
 RT: 6.337 min Scan# 867
 Delta R.T. 0.006 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

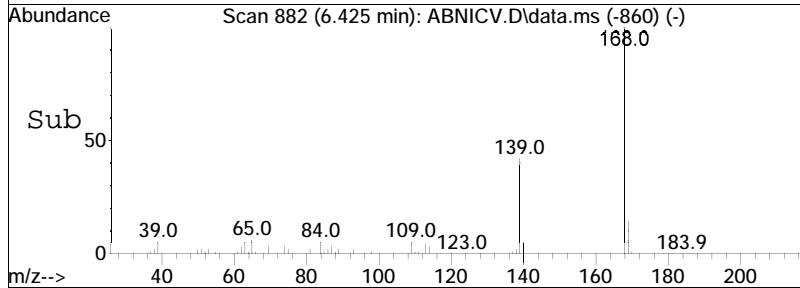
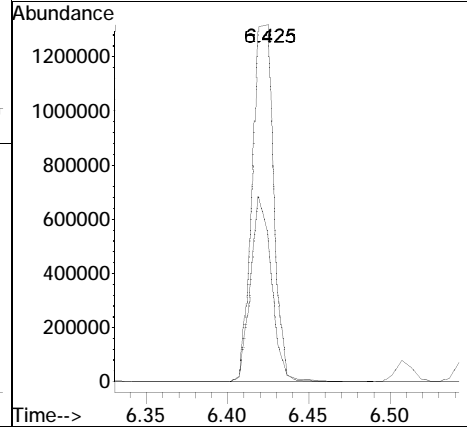
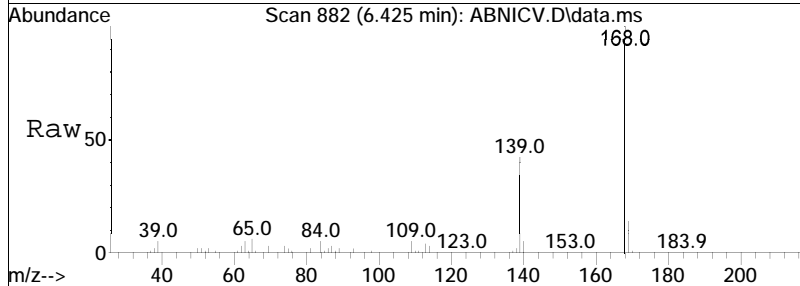
Tgt Ion	Ratio	Lower	Upper
184	100		
107	37.8	32.2	48.2
91	40.5	36.4	54.6

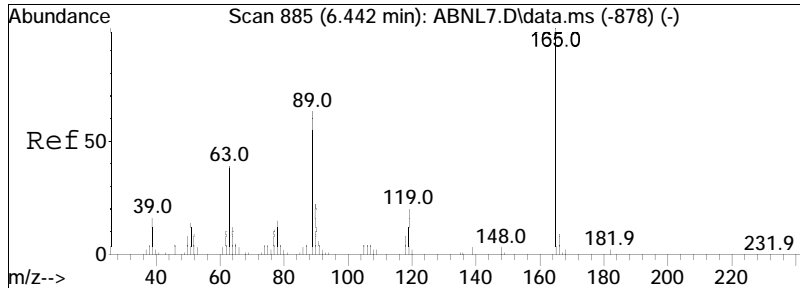




#67
 Dibenzofuran
 Concen: 45.90 ug/ml
 RT: 6.425 min Scan# 882
 Delta R.T. 0.006 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

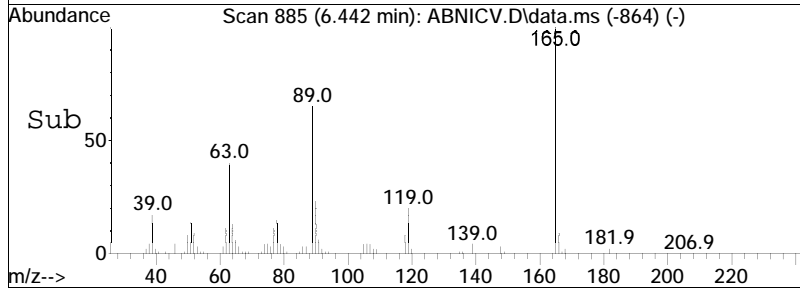
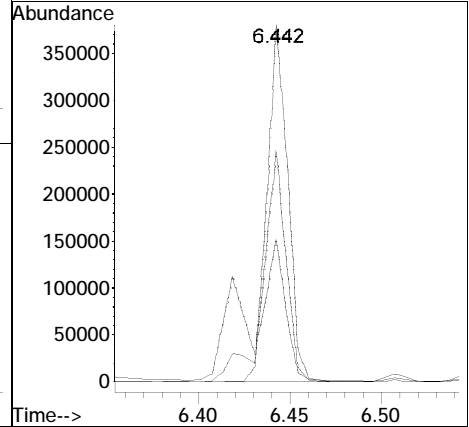
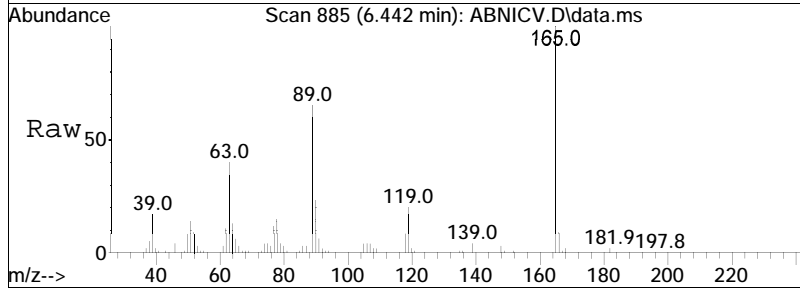
Tgt Ion: 168 Resp: 1198133
 Ion Ratio Lower Upper
 168 100
 139 51.3 44.5 66.7

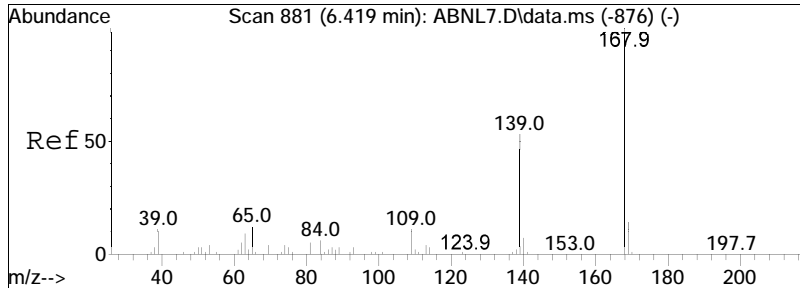




#68
 2,4-Dinitrotoluene
 Concen: 45.75 ug/ml
 RT: 6.442 min Scan# 885
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

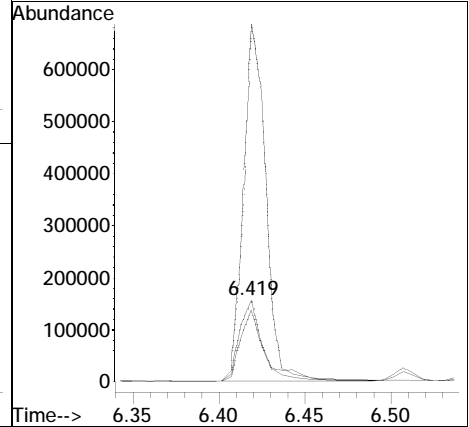
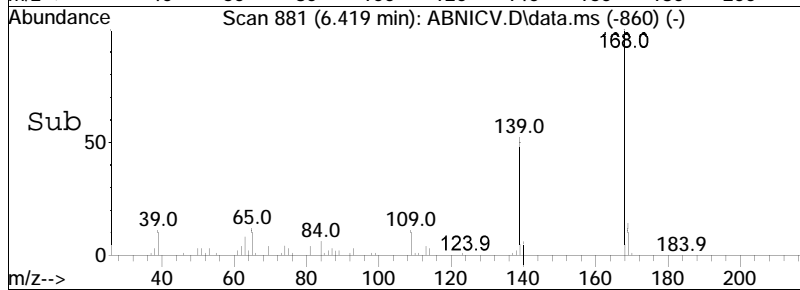
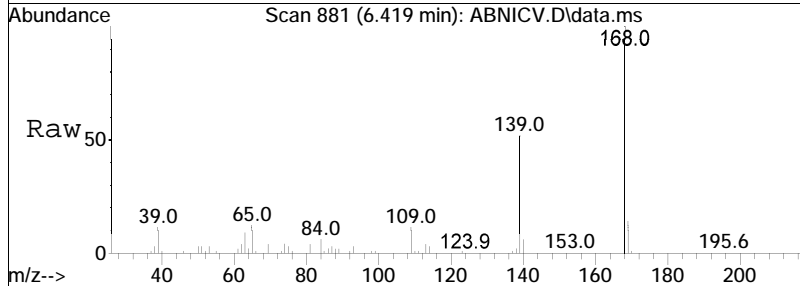
Tgt Ion	Ratio	Lower	Upper
165	100		
89	72.2	58.8	88.2
63	38.1	56.5	84.7#

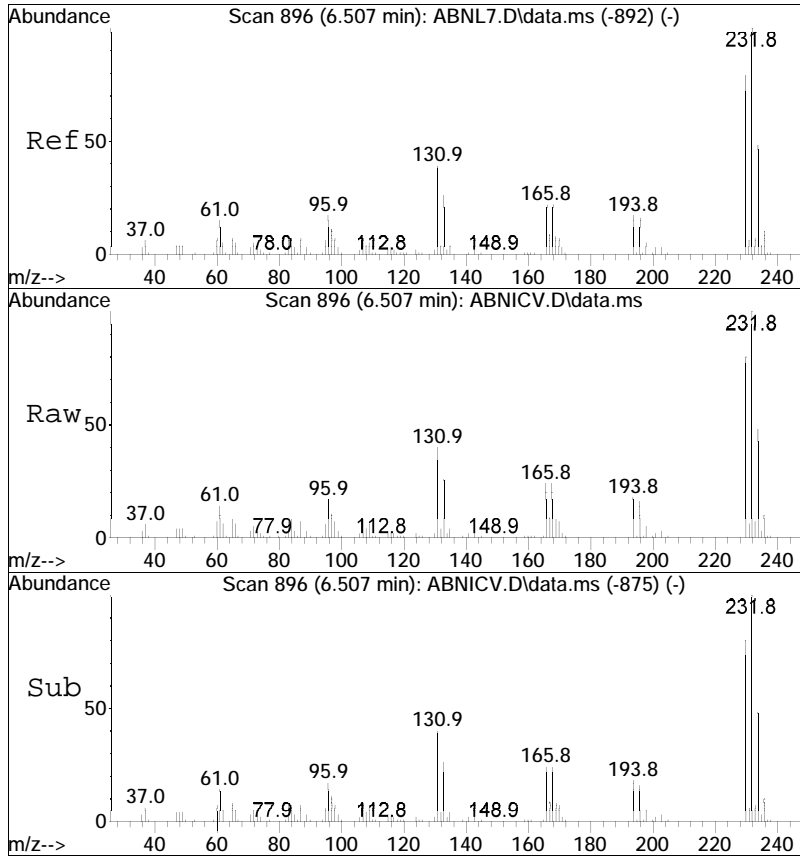




#69
 4-Nitrophenol
 Concen: 48.36 ug/ml
 RT: 6.419 min Scan# 881
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

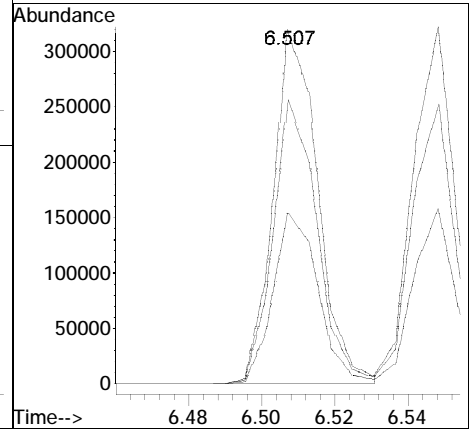
Tgt Ion	Resp	Lower	Upper
65	157654		
109	82.0	52.0	78.0#
139	389.8	268.1	402.1

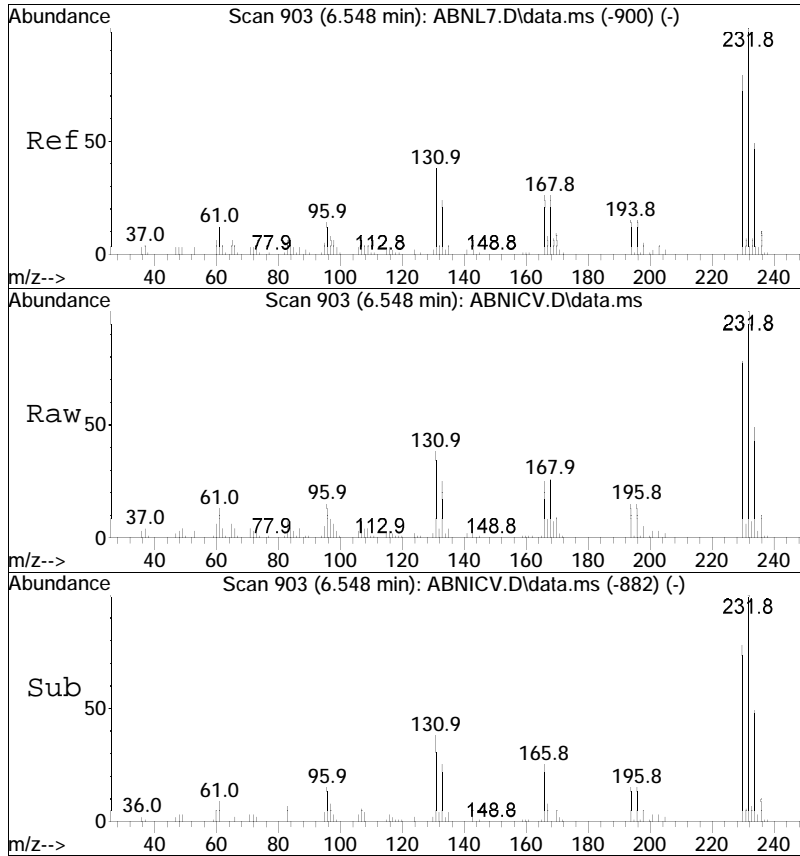




#70
 2,3,5,6-Tetrachlorophenol
 Concen: 49.89 ug/ml
 RT: 6.507 min Scan# 896
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

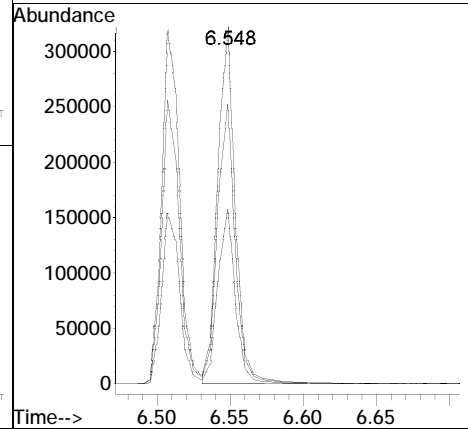
Tgt Ion	Resp	Lower	Upper
232	271460		
232	100		
230	79.1	62.8	94.2
234	48.8	38.6	58.0

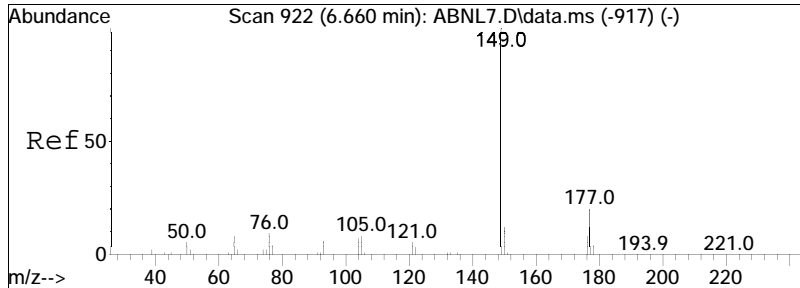




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 47.10 ug/ml
 RT: 6.548 min Scan# 903
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

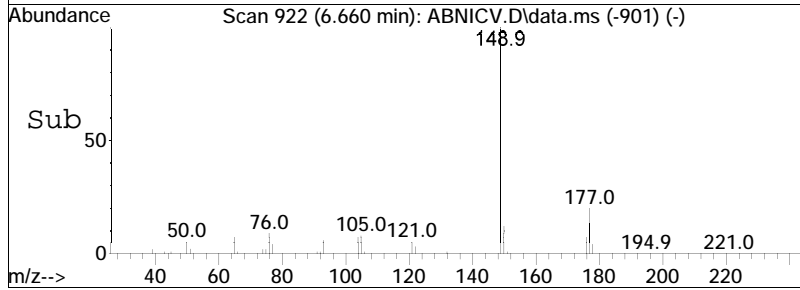
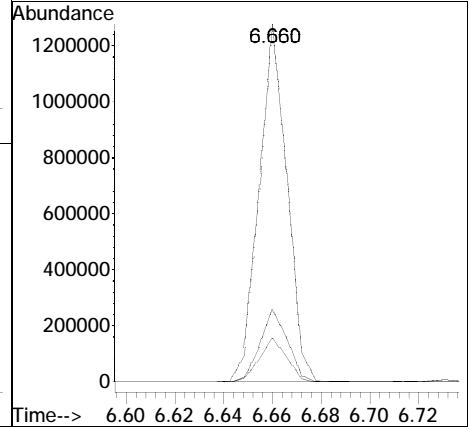
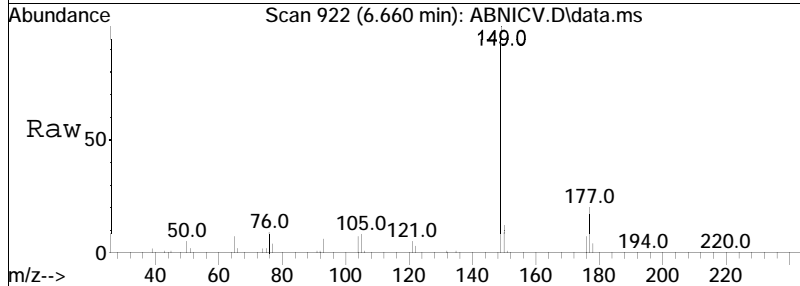
Tgt Ion	Resp	Lower	Upper
232	100		
230	79.3	62.9	94.3
234	49.0	38.1	57.1

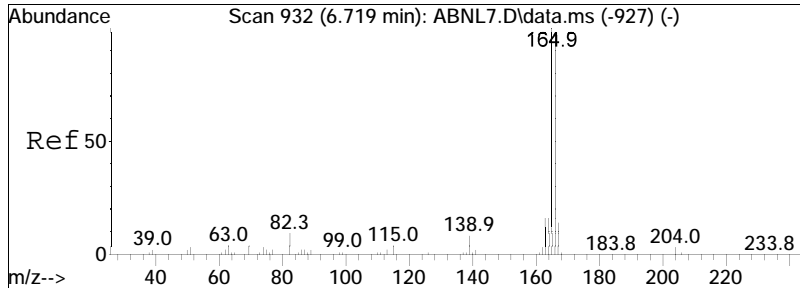




#72
 Diethyl phthalate
 Concen: 45.99 ug/ml
 RT: 6.660 min Scan# 922
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

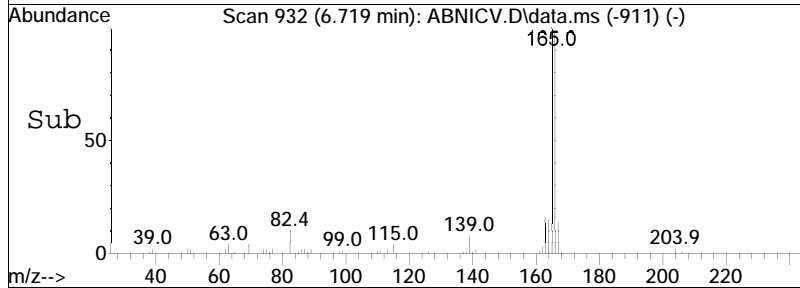
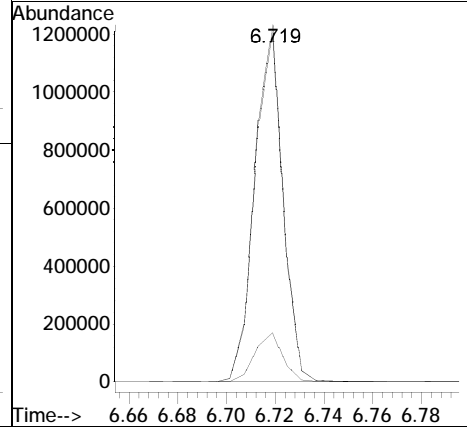
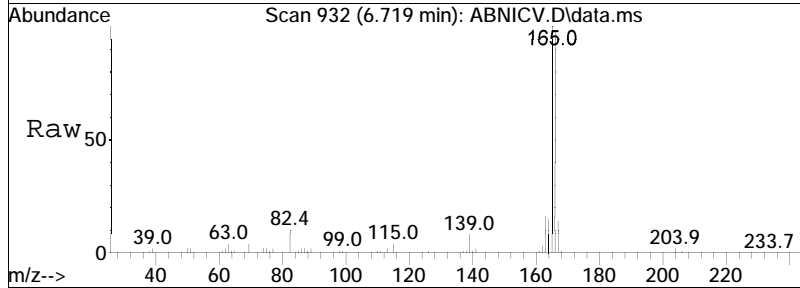
Tgt Ion	Ratio	Lower	Upper
149	100		
177	20.1	16.2	24.4
150	12.2	9.9	14.9

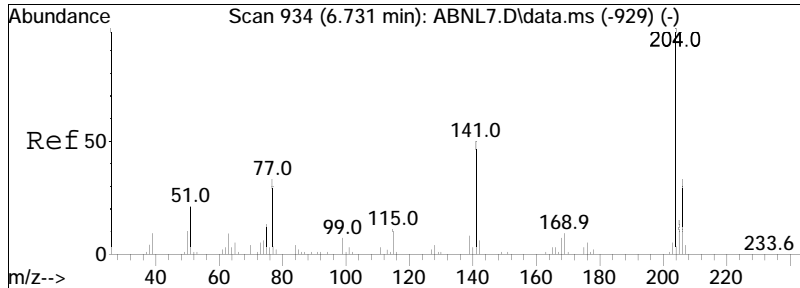




#73
 Fluorene
 Concen: 45.56 ug/ml
 RT: 6.719 min Scan# 932
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

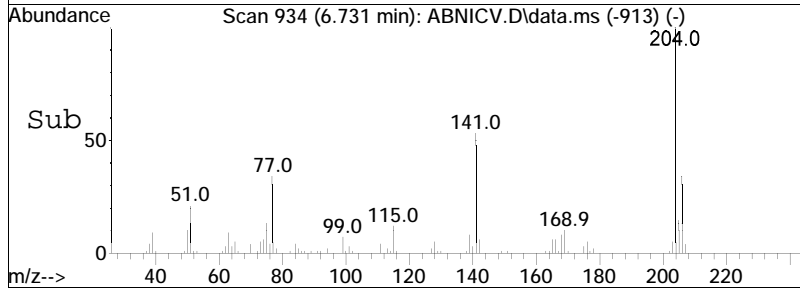
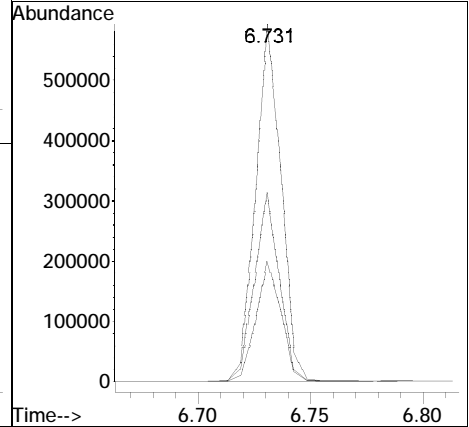
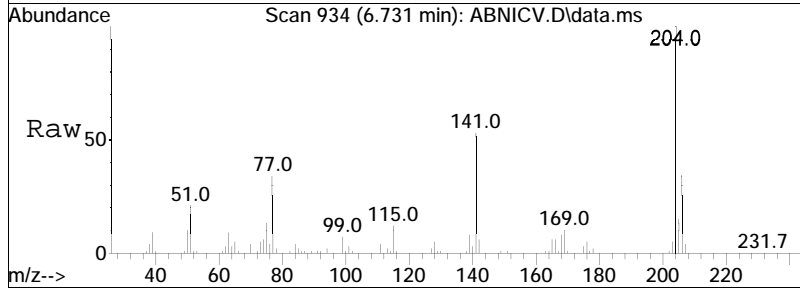
Tgt Ion	Ratio	Lower	Upper
166	100		
165	103.1	82.5	123.7
167	14.2	11.3	16.9

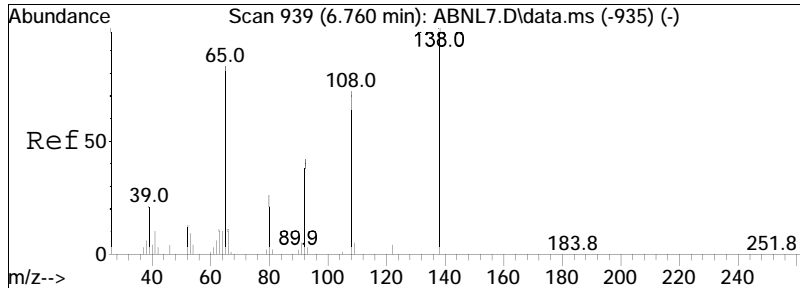




#74
 4-Chlorophenyl phenyl ether
 Concen: 44.96 ug/ml
 RT: 6.731 min Scan# 934
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

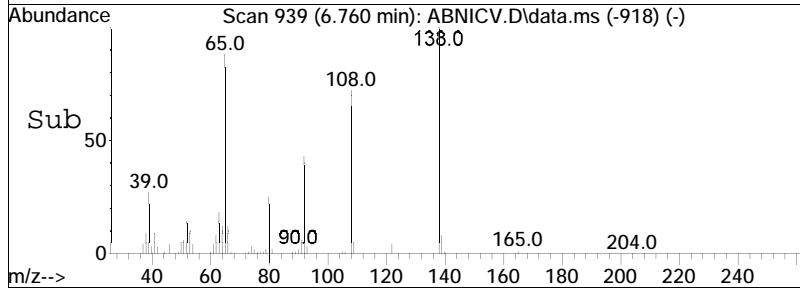
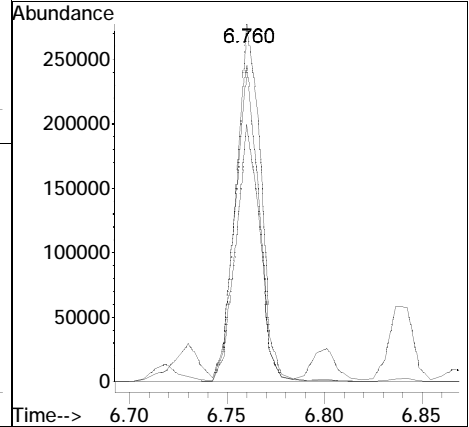
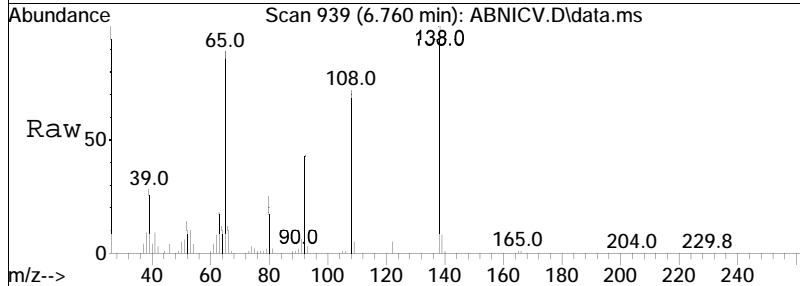
Tgt Ion	Ratio	Lower	Upper
204	100		
206	33.3	27.1	40.7
141	51.8	46.6	70.0

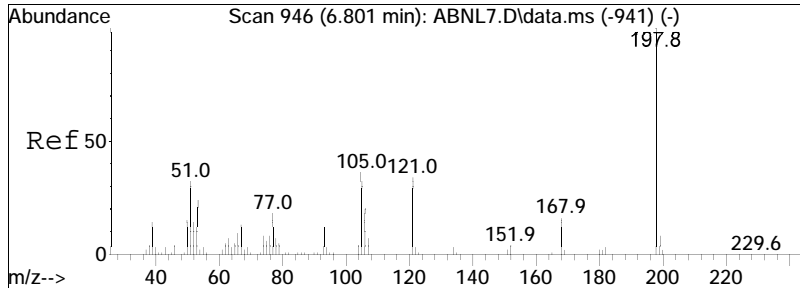




#75
 4-Nitroaniline
 Concen: 48.68 ug/ml
 RT: 6.760 min Scan# 939
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

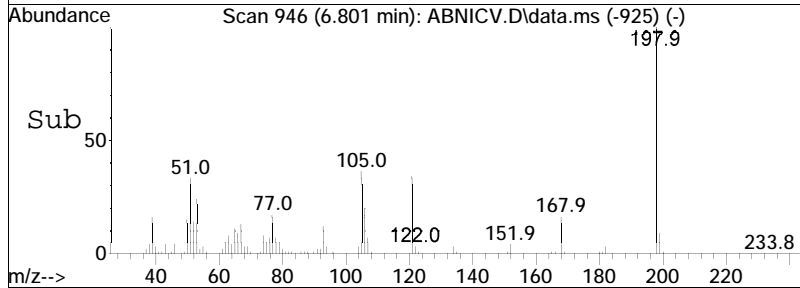
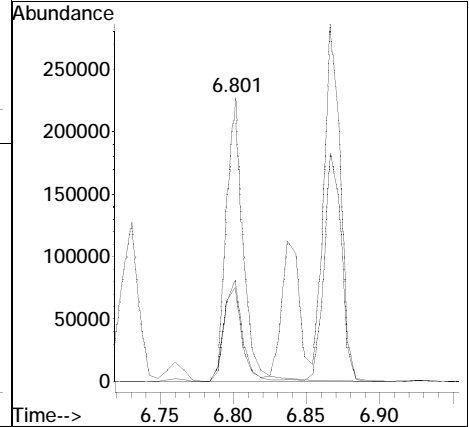
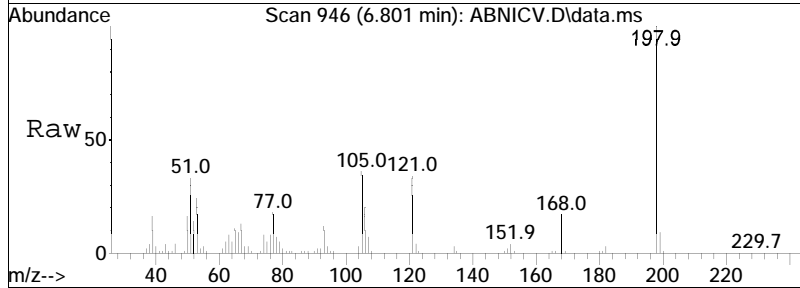
Tgt Ion	Ratio	Lower	Upper
138	100		
108	69.5	45.8	68.8#
65	83.3	84.2	126.4#

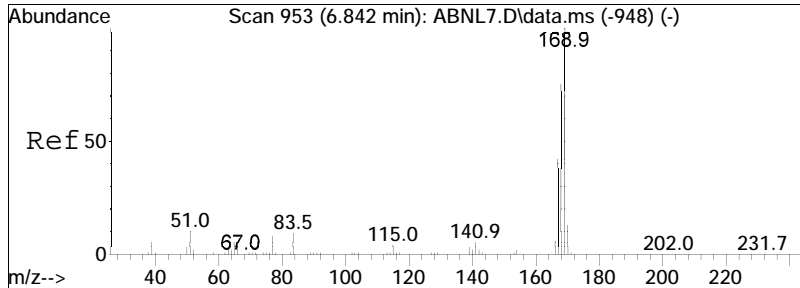




#76
 4,6-Dinitro-o-cresol
 Concen: 49.01 ug/ml
 RT: 6.801 min Scan# 946
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

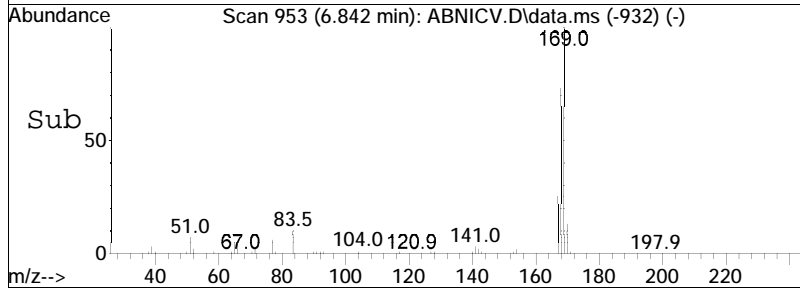
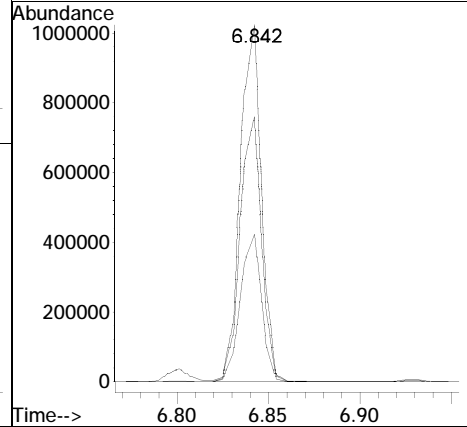
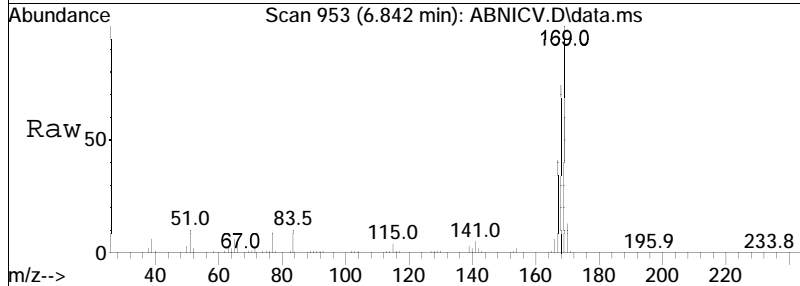
Tgt Ion	Ratio	Lower	Upper
198	100		
51	34.6	35.5	53.3#
105	37.5	35.8	53.6

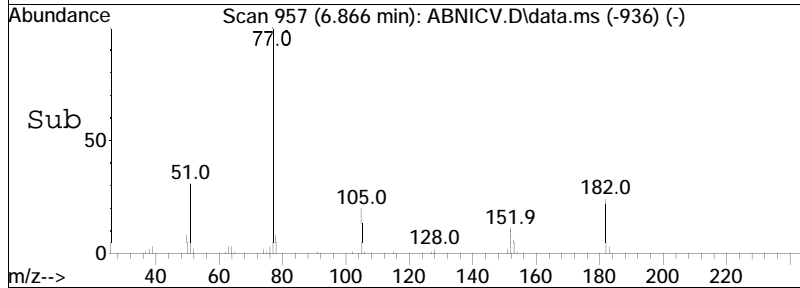
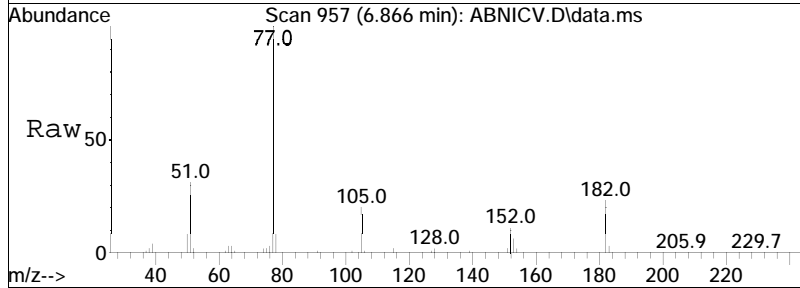
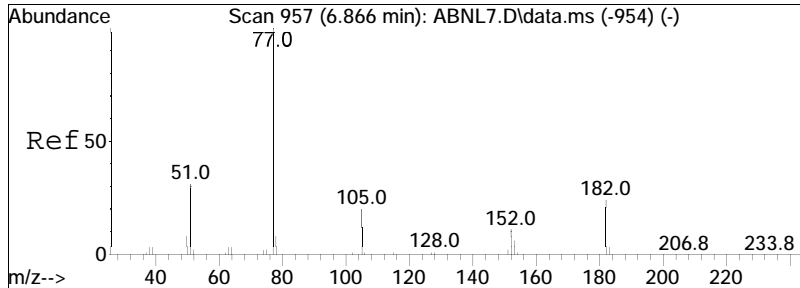




#77
 NDPA/DPA
 Concen: 45.65 ug/ml
 RT: 6.842 min Scan# 953
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

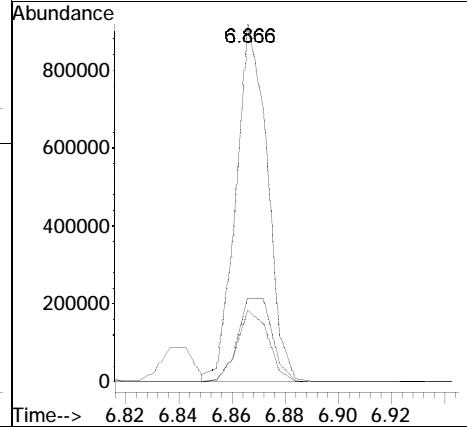
Tgt Ion	Resp	Lower	Upper
169	100		
168	75.0	59.7	89.5
167	41.7	33.6	50.4

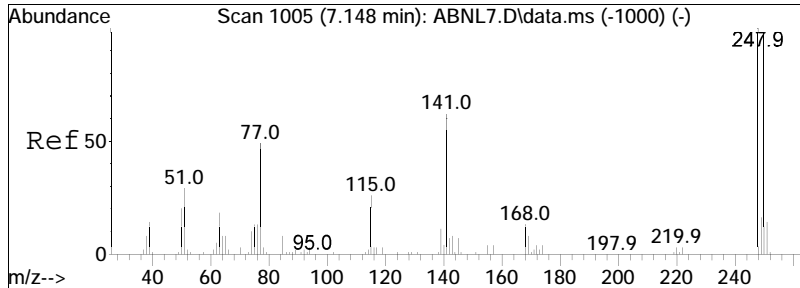




#78
 Azobenzene
 Concen: 45.76 ug/ml
 RT: 6.866 min Scan# 957
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

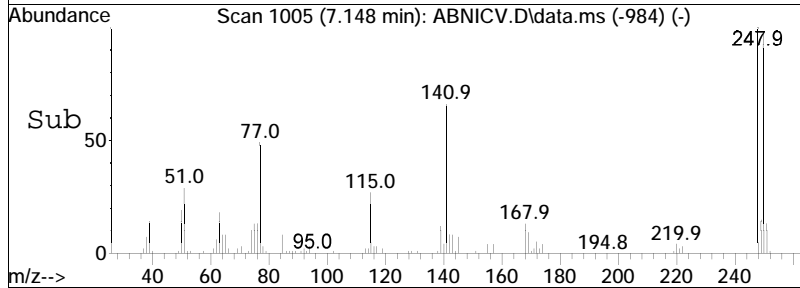
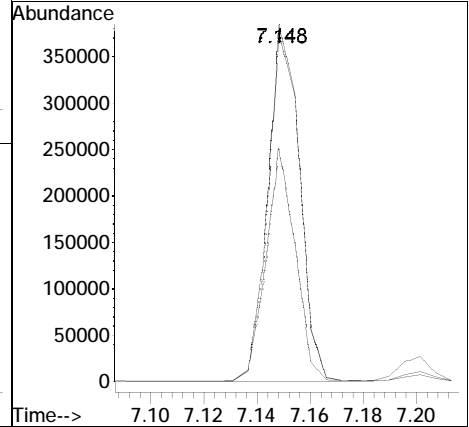
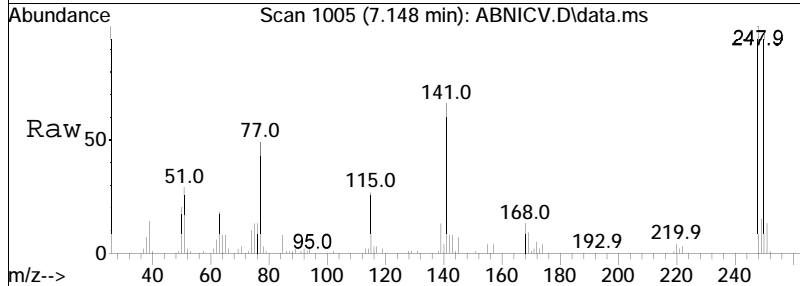
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
77	100		
182	25.9	19.0	28.6
105	20.1	18.9	28.3

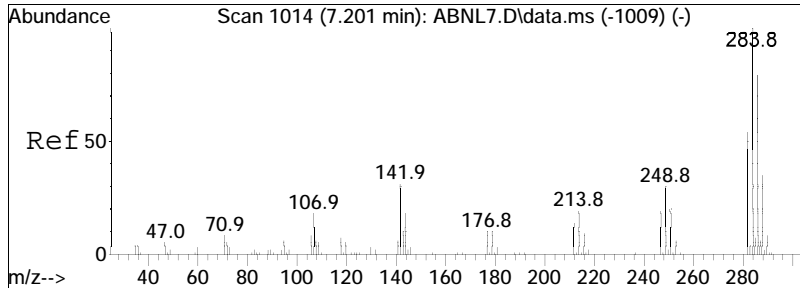




#80
 4-Bromophenyl phenyl ether
 Concen: 47.14 ug/ml
 RT: 7.148 min Scan# 1005
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

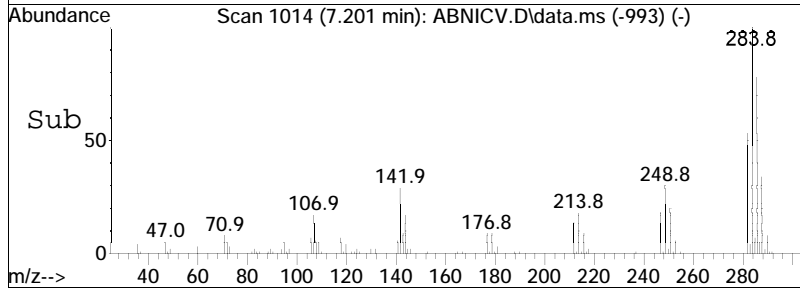
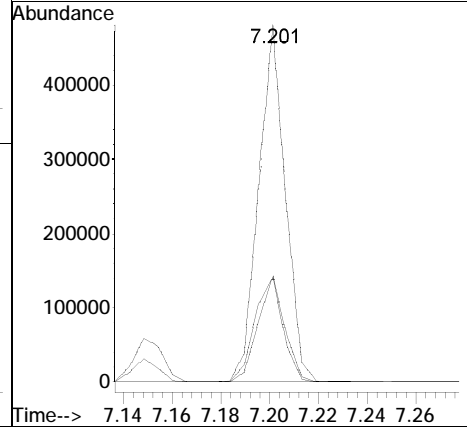
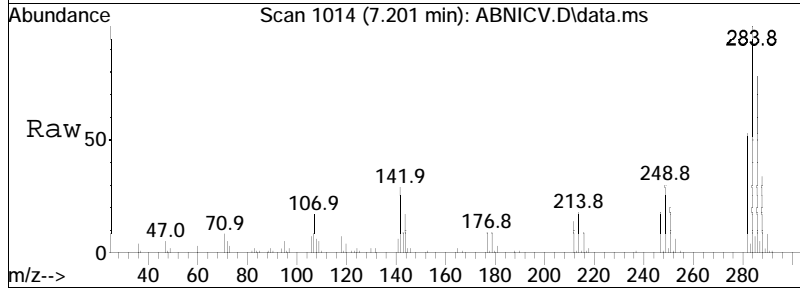
Tgt Ion	Ratio	Lower	Upper
248	100		
141	60.3	50.8	76.2
250	98.4	78.1	117.1

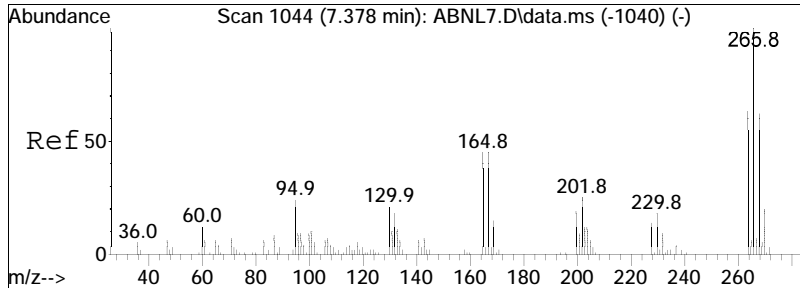




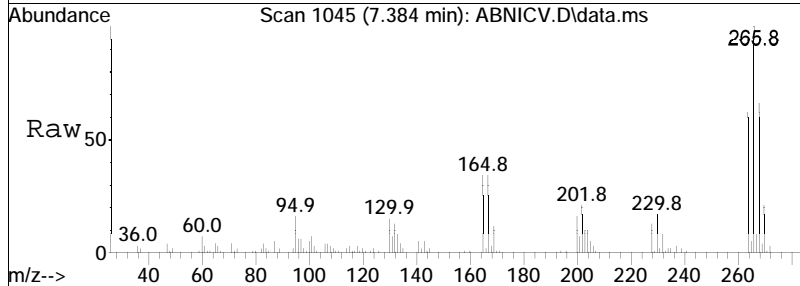
#81
 Hexachlorobenzene
 Concen: 46.78 ug/ml
 RT: 7.201 min Scan# 1014
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

Tgt Ion	Ratio	Lower	Upper
284	100		
142	31.2	25.7	38.5
249	29.8	23.3	34.9

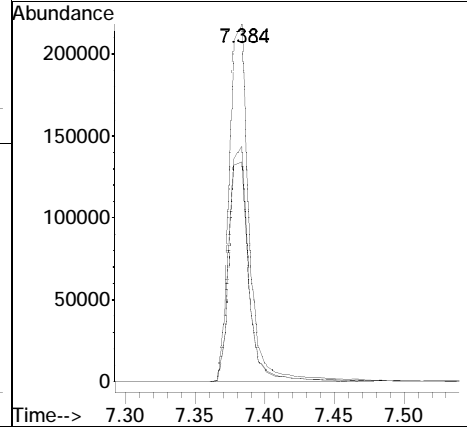
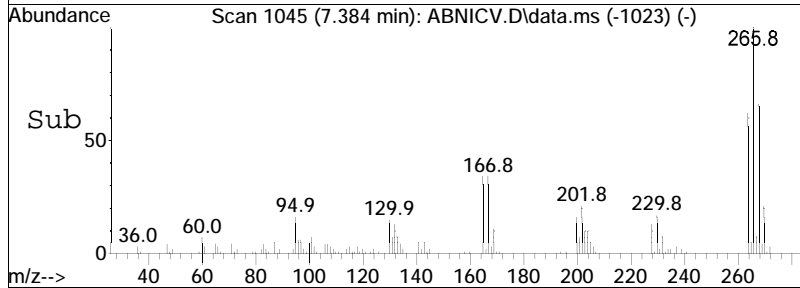


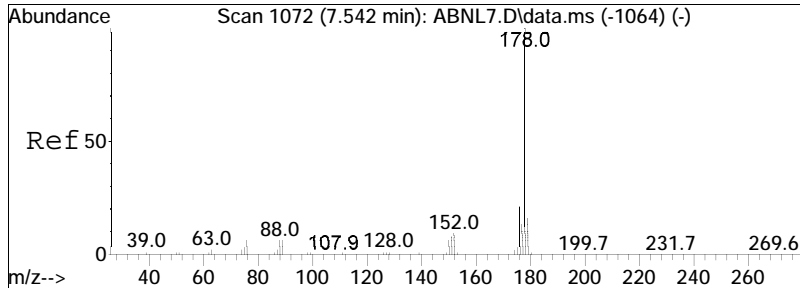


#82
 Pentachlorophenol
 Concen: 49.62 ug/ml
 RT: 7.384 min Scan# 1045
 Delta R.T. 0.006 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am



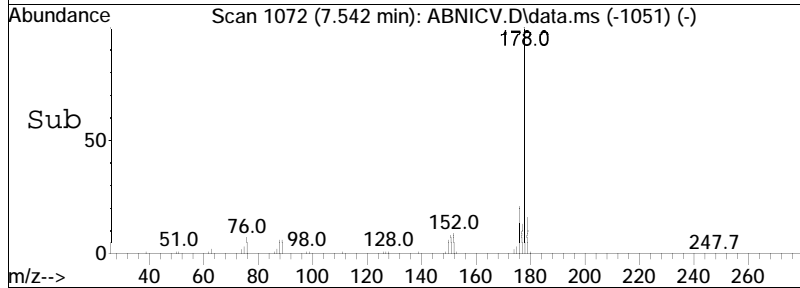
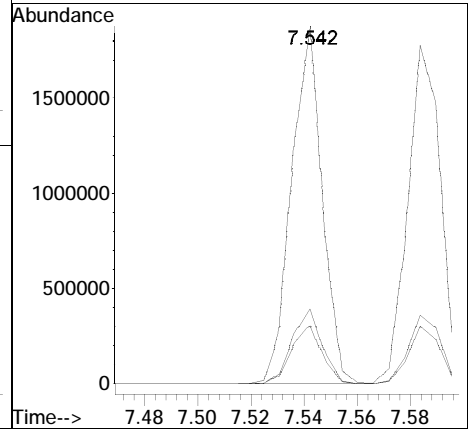
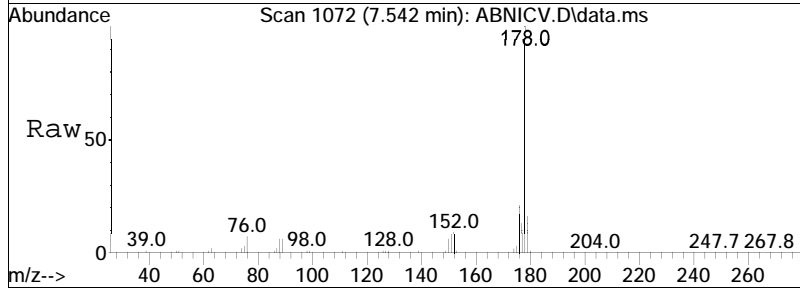
Tgt Ion	Resp	Lower	Upper
266	100		
264	62.4	50.4	75.6
268	64.5	49.9	74.9

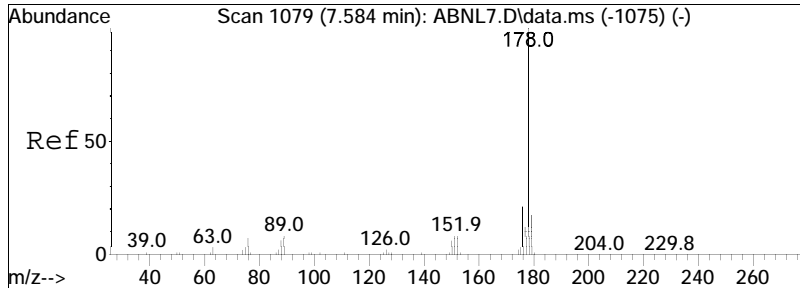




#89
 Phenanthrene
 Concen: 44.72 ug/ml
 RT: 7.542 min Scan# 1072
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

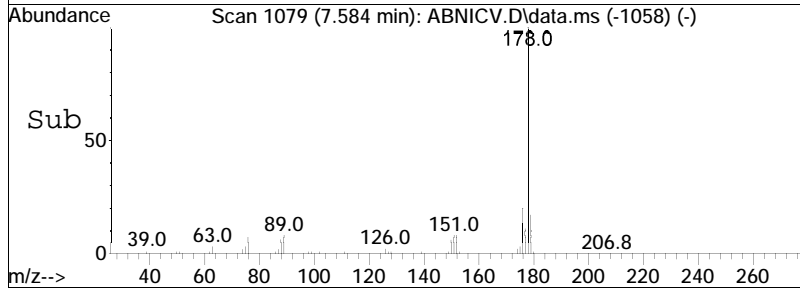
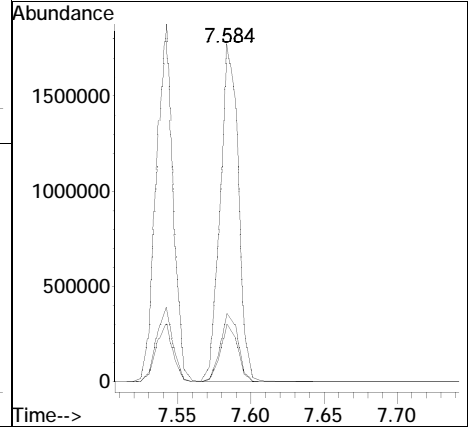
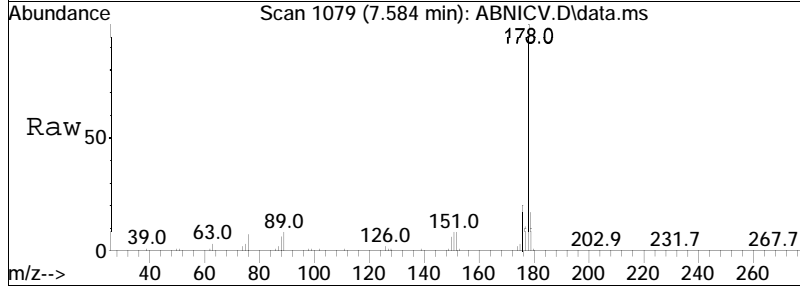
Tgt Ion	Ratio	Lower	Upper
178	100		
179	16.2	13.3	19.9
176	20.5	16.9	25.3

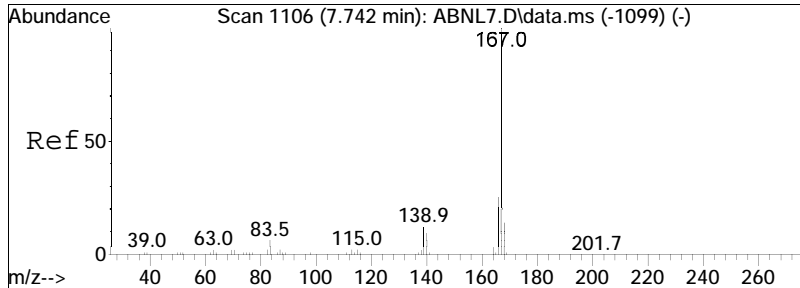




#90
 Anthracene
 Concen: 45.38 ug/ml
 RT: 7.584 min Scan# 1079
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

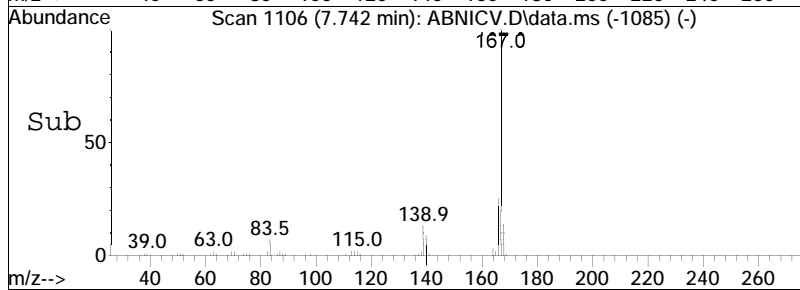
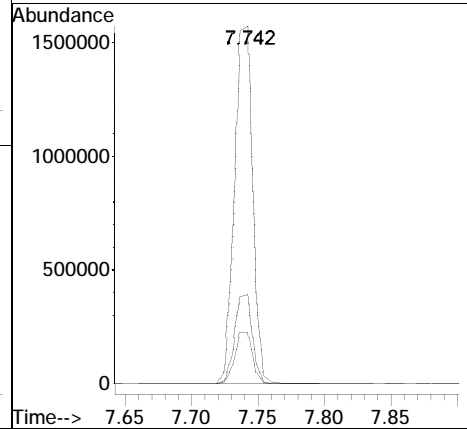
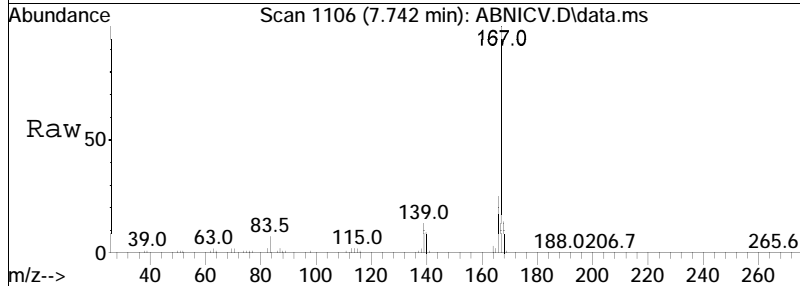
Tgt Ion	Resp	Lower	Upper
178	100		
179	16.3	13.1	19.7
176	19.9	16.3	24.5

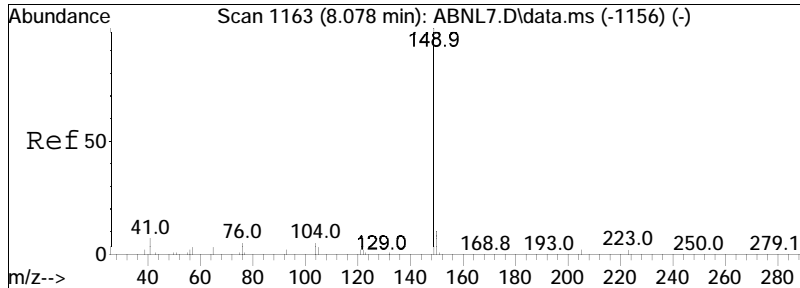




#91
 Carbazole
 Concen: 45.63 ug/ml
 RT: 7.742 min Scan# 1106
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

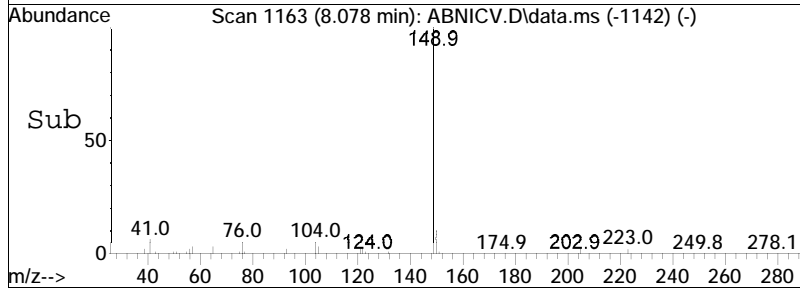
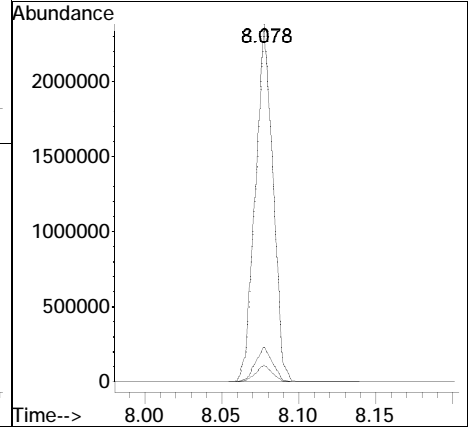
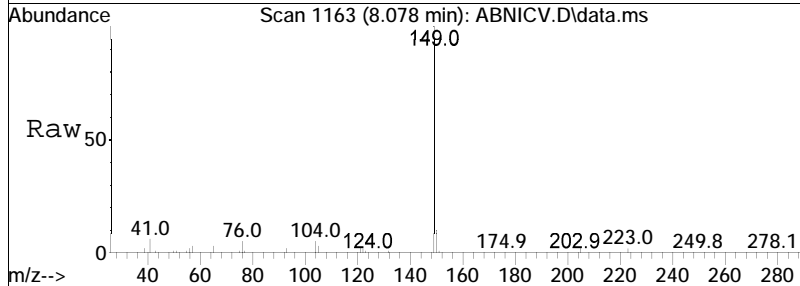
Tgt Ion	Resp	Lower	Upper
167	100		
168	14.1	11.6	17.4
166	24.4	19.9	29.9

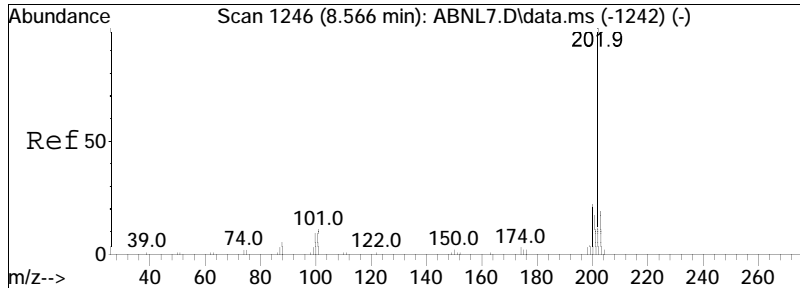




#92
 Di-n-butylphthalate
 Concen: 46.88 ug/ml
 RT: 8.078 min Scan# 1163
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

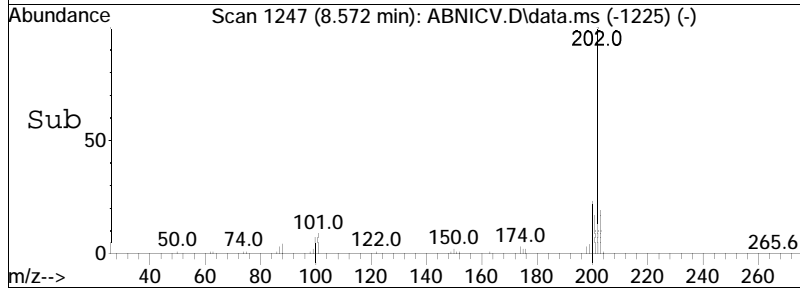
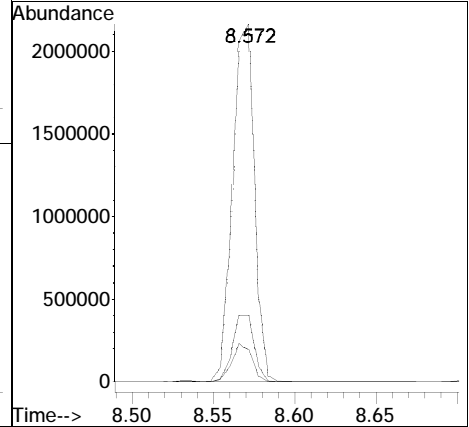
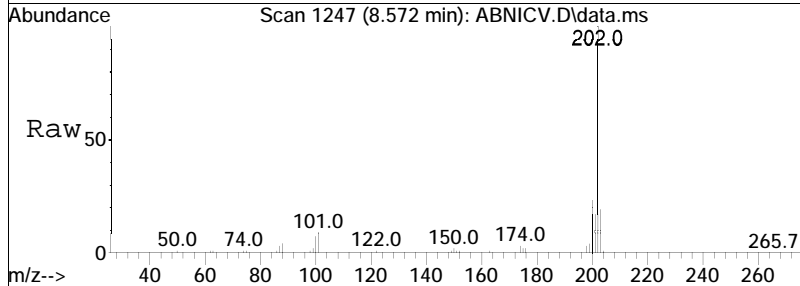
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.7	8.1	12.1
104	4.6	3.4	5.2

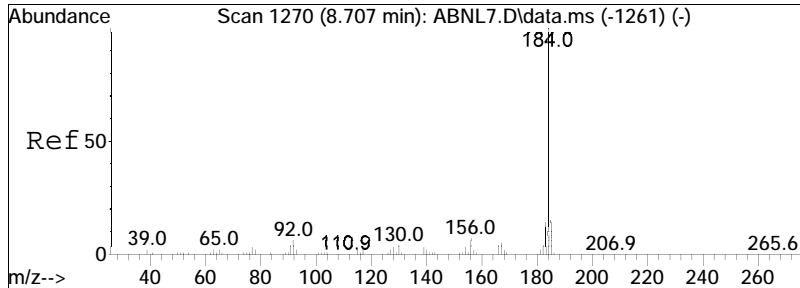




#93
 Fluoranthene
 Concen: 45.57 ug/ml
 RT: 8.572 min Scan# 1247
 Delta R.T. 0.006 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

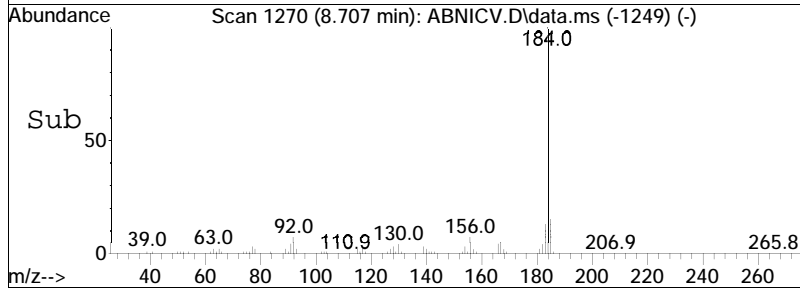
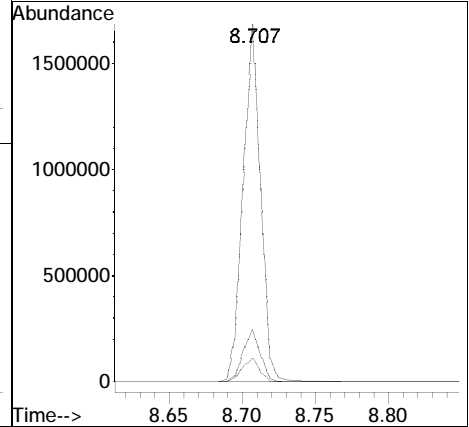
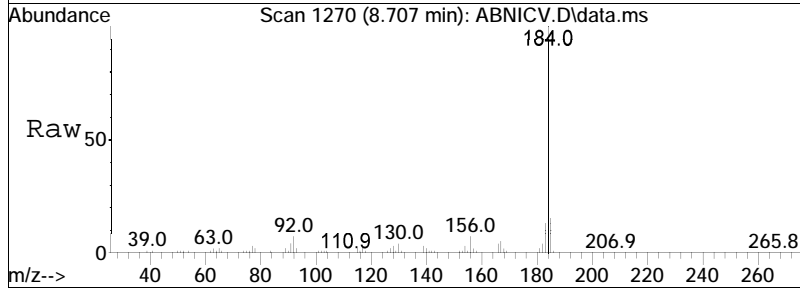
Tgt Ion	Resp	Lower	Upper
202	1994400		
202	100		
101	10.1	11.5	17.3#
203	18.8	15.0	22.6

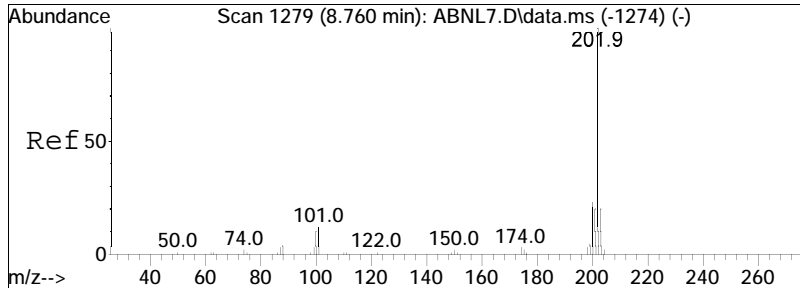




#94
 Benzidine
 Concen: 47.85 ug/ml
 RT: 8.707 min Scan# 1270
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

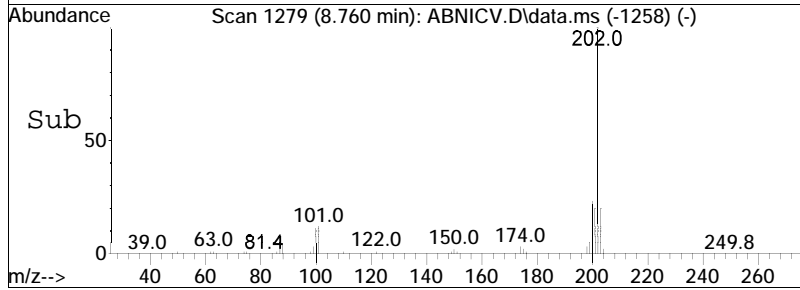
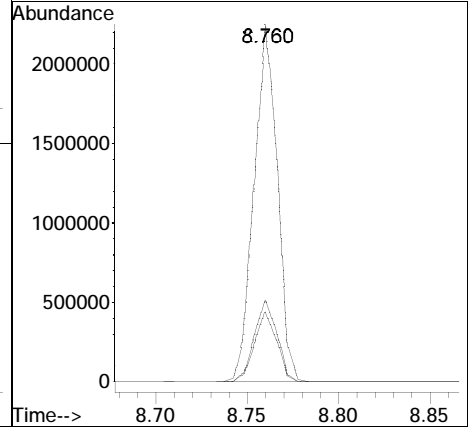
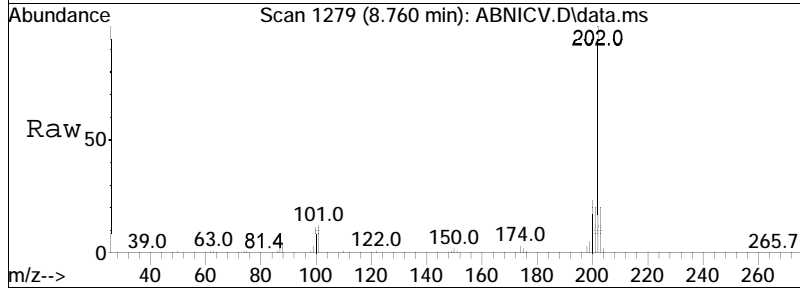
Tgt Ion	Ratio	Lower	Upper
184	100		
92	6.7	7.4	11.2#
185	14.6	11.8	17.6

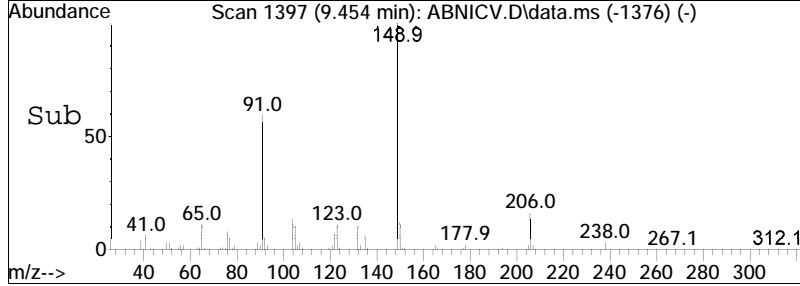
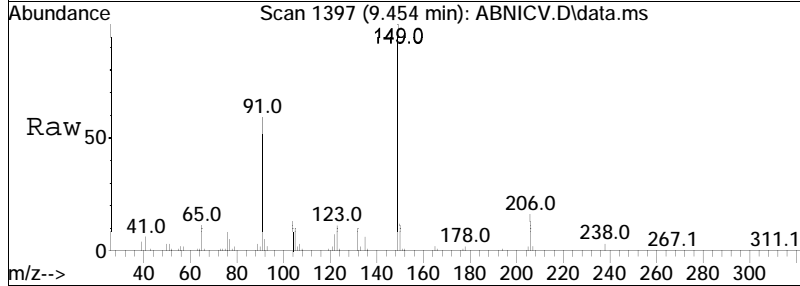
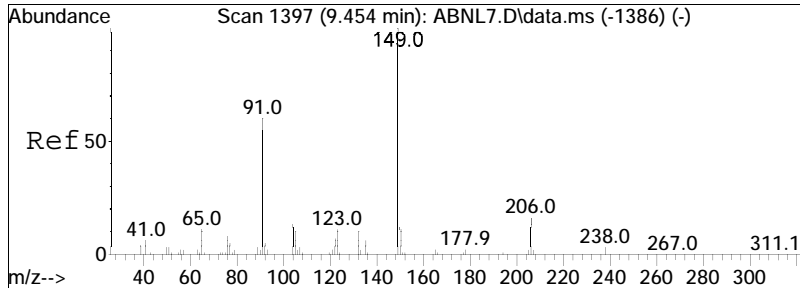




#95
 Pyrene
 Concen: 43.59 ug/ml
 RT: 8.760 min Scan# 1279
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

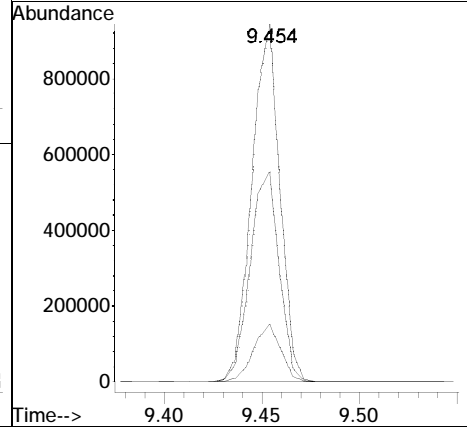
Tgt Ion	Resp	Lower	Upper
202	1966404		
202	100		
200	22.6	18.5	27.7
203	19.0	15.5	23.3

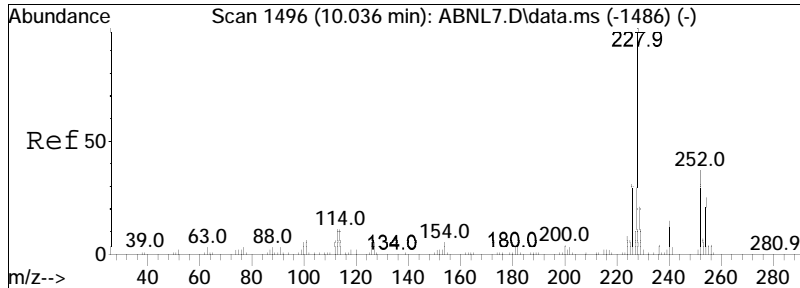




#97
 Butyl benzyl phthalate
 Concen: 47.38 ug/ml
 RT: 9.454 min Scan# 1397
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

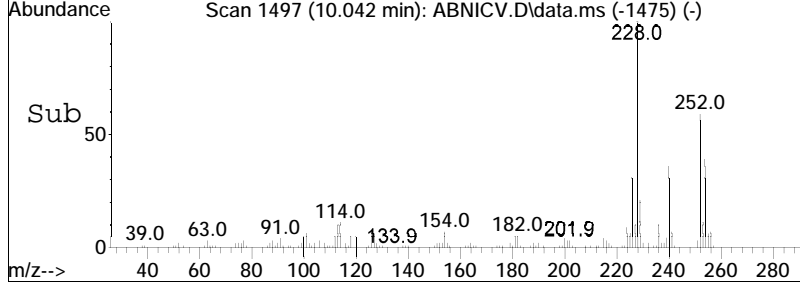
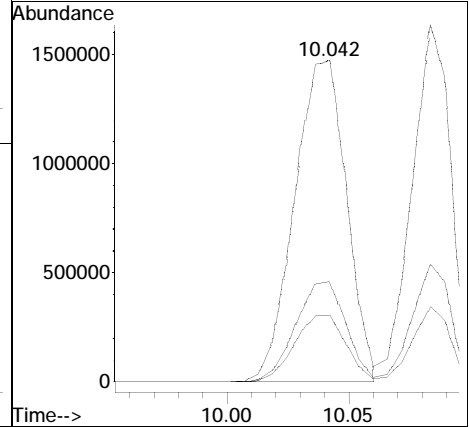
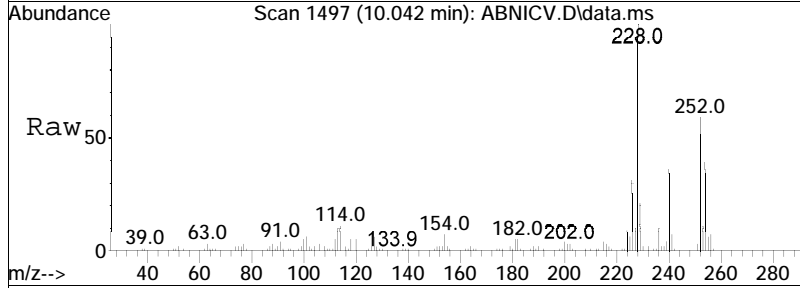
Tgt Ion	Ratio	Lower	Upper
149	100		
91	61.1	51.2	76.8
206	15.8	12.1	18.1

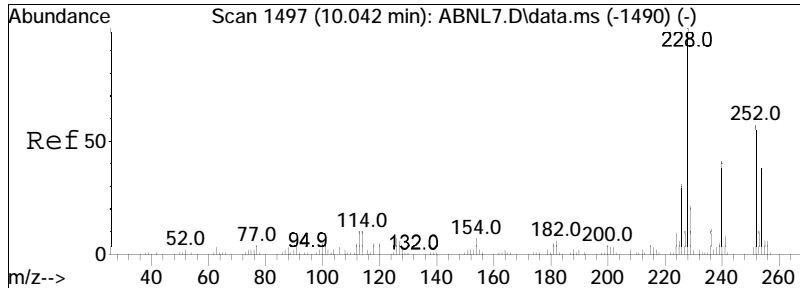




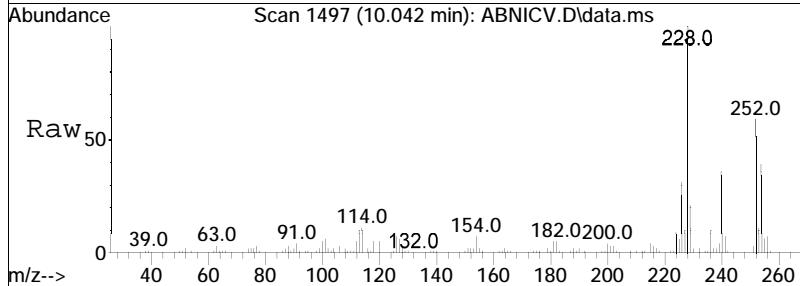
#105
 Benzo(a)anthracene
 Concen: 45.88 ug/ml
 RT: 10.042 min Scan# 1497
 Delta R.T. 0.006 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.8	35.8
229	20.5	16.6	24.8

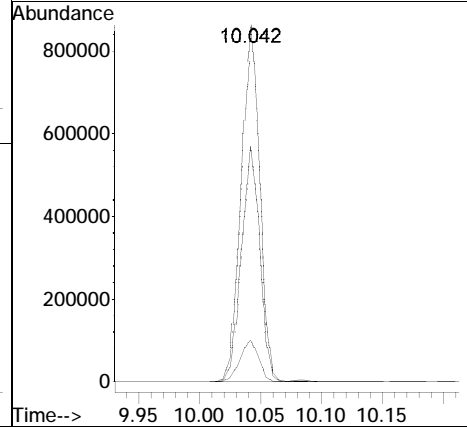
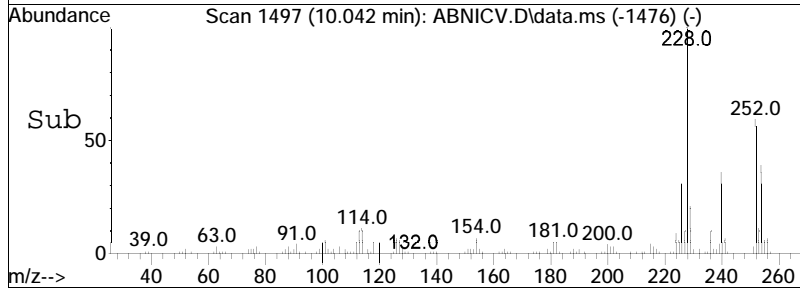


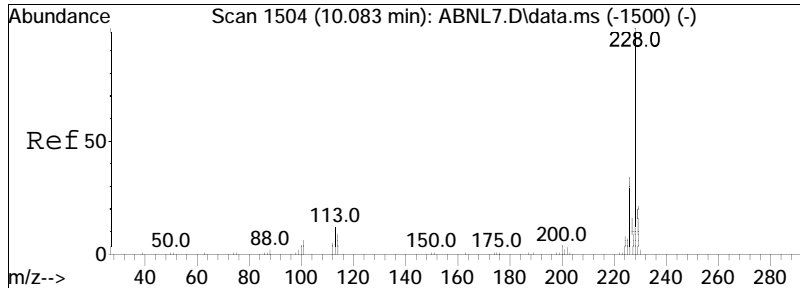


#106
 3,3'-Dichlorobenzidine
 Concen: 48.51 ug/ml
 RT: 10.042 min Scan# 1497
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am



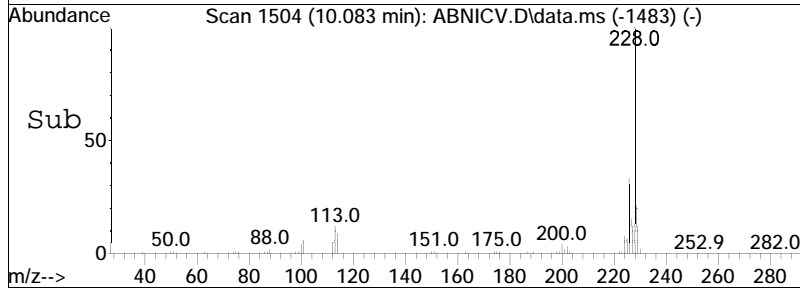
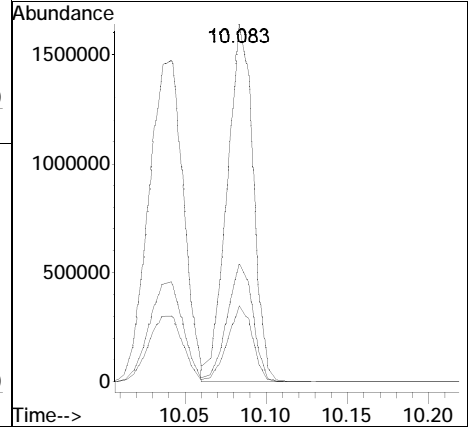
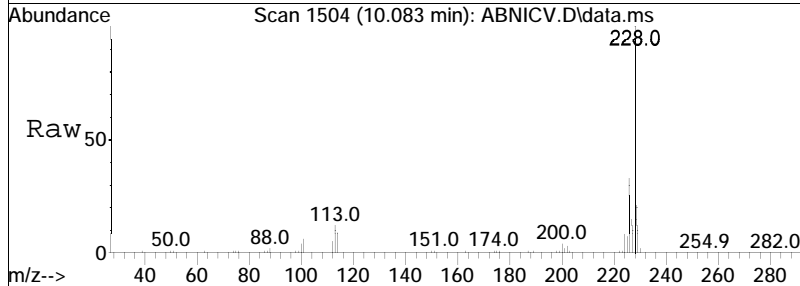
Tgt Ion	Ratio	Lower	Upper
252	100		
126	12.0	11.6	17.4
254	65.4	52.2	78.2

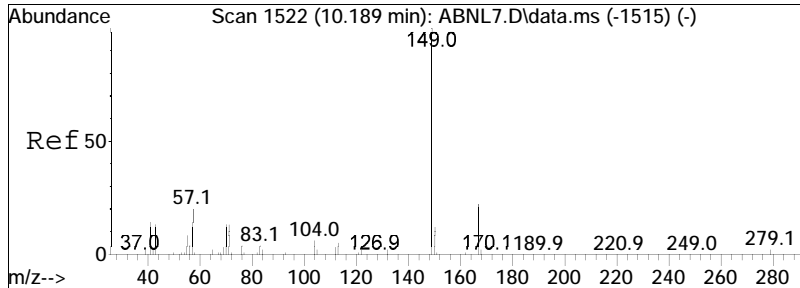




#107
 Chrysene
 Concen: 46.04 ug/ml
 RT: 10.083 min Scan# 1504
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

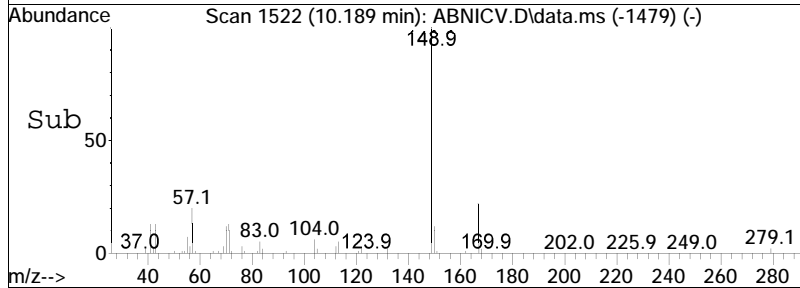
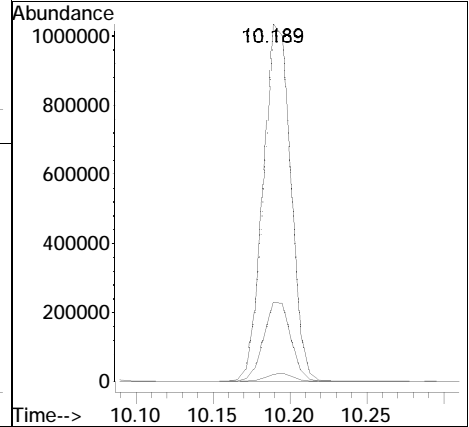
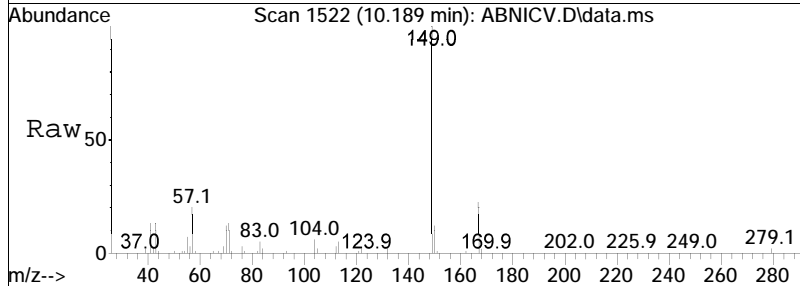
Tgt Ion	Resp	Lower	Upper
228	100		
226	32.5	26.2	39.4
229	20.5	16.7	25.1

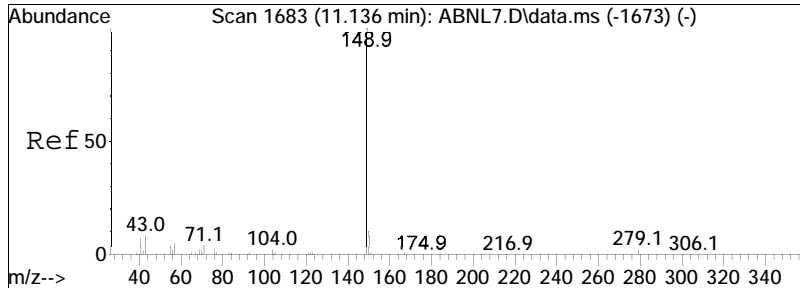




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 48.06 ug/ml
 RT: 10.189 min Scan# 1522
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

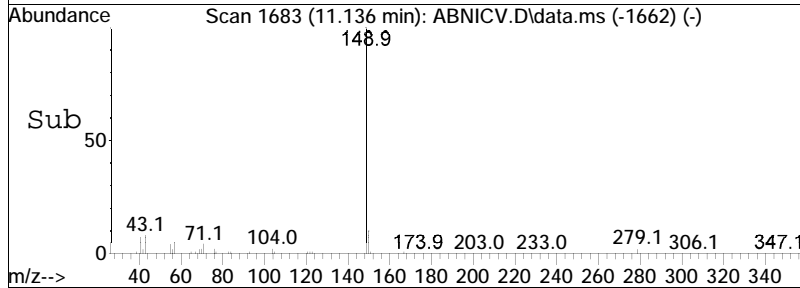
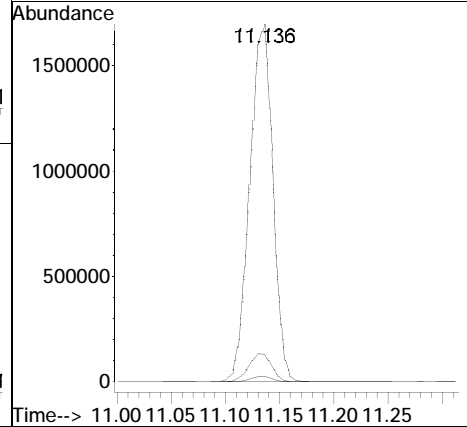
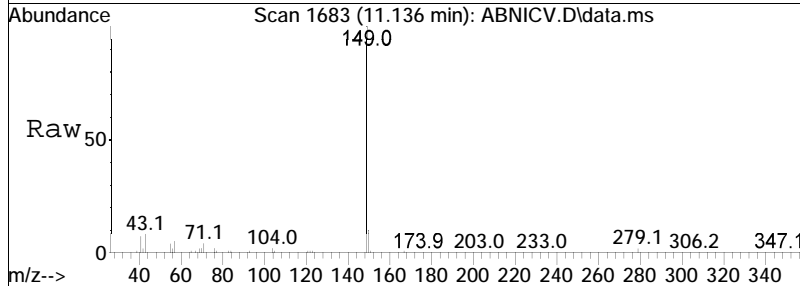
Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.1	17.8	26.8
279	2.1	1.8	2.6

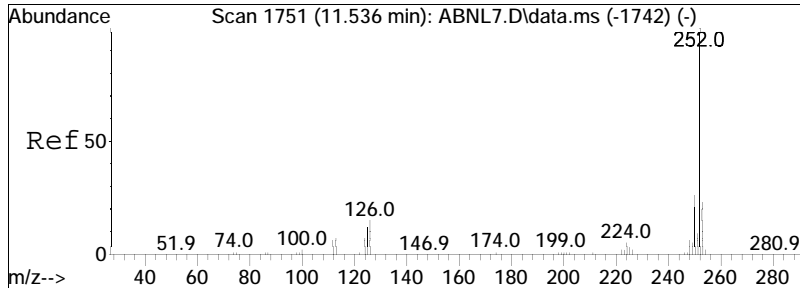




#109
 Di-n-octylphthalate
 Concen: 50.02 ug/ml
 RT: 11.136 min Scan# 1683
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

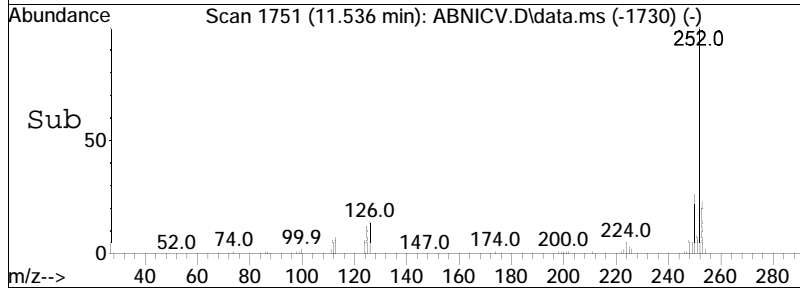
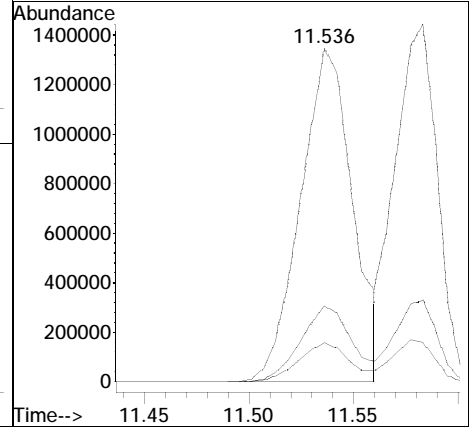
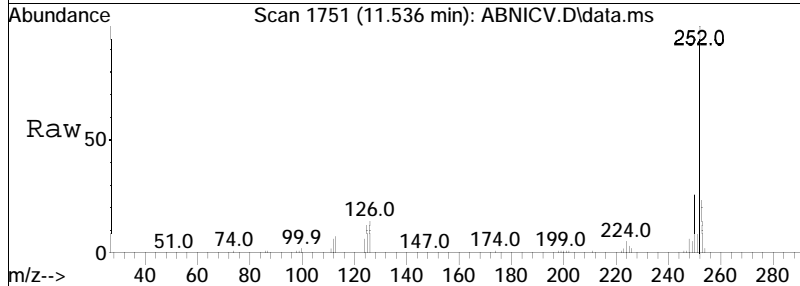
Tgt Ion	Ratio	Lower	Upper
149	100		
43	8.0	7.4	11.2
167	1.4	1.1	1.7

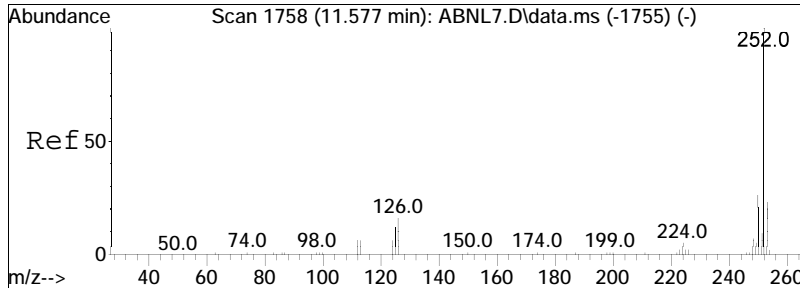




#110
 Benzo(b)fluoranthene
 Concen: 47.34 ug/ml
 RT: 11.536 min Scan# 1751
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

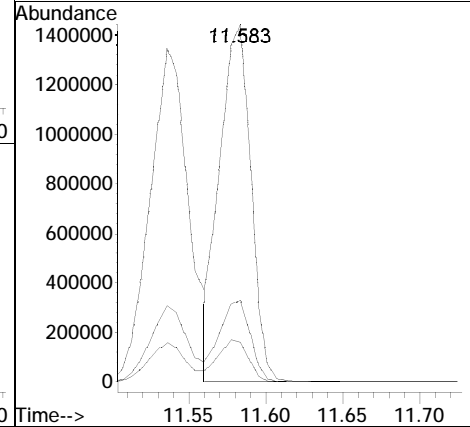
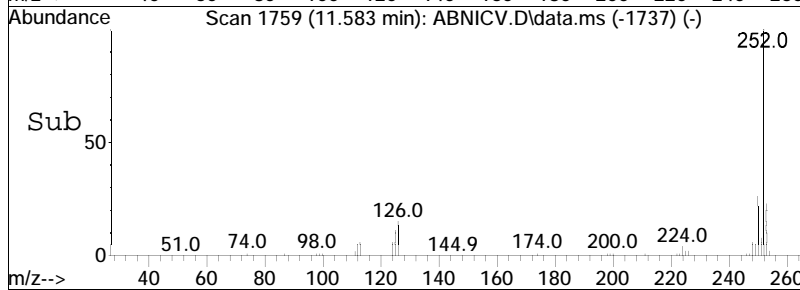
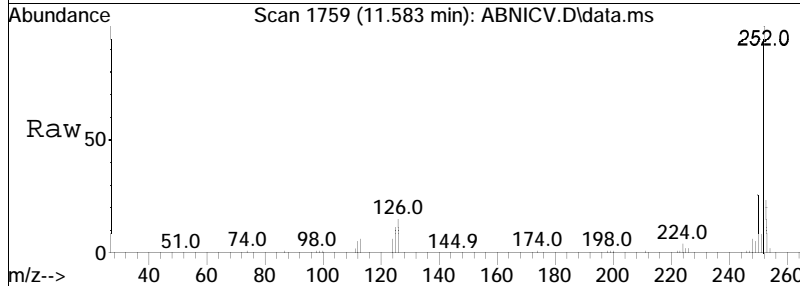
Tgt Ion	Resp	Lower	Upper
252	100		
125	11.7	11.1	16.7
253	22.5	17.4	26.2

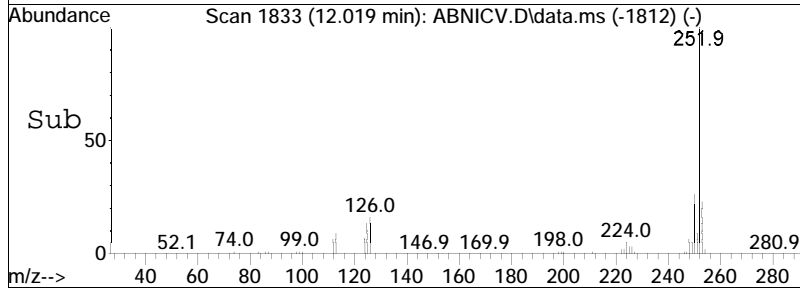
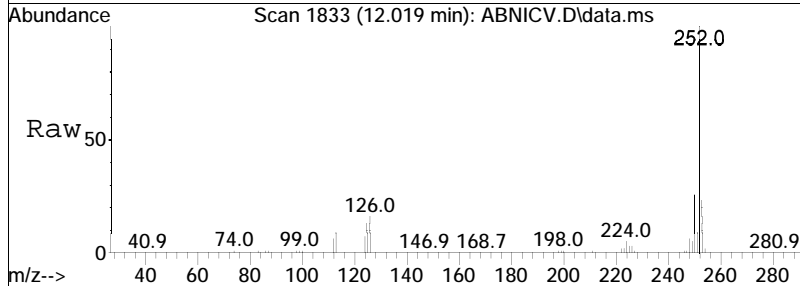
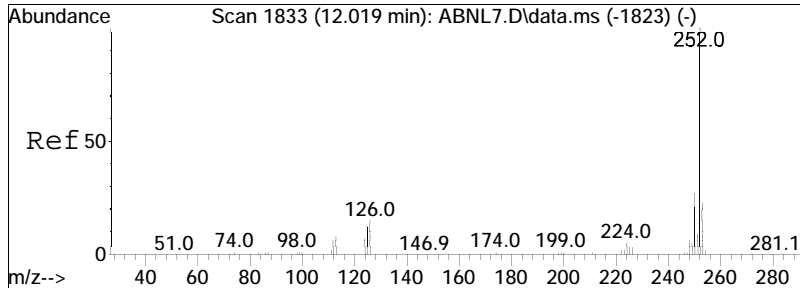




#111
 Benzo(k)fluoranthene
 Concen: 45.52 ug/ml
 RT: 11.583 min Scan# 1759
 Delta R.T. 0.006 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

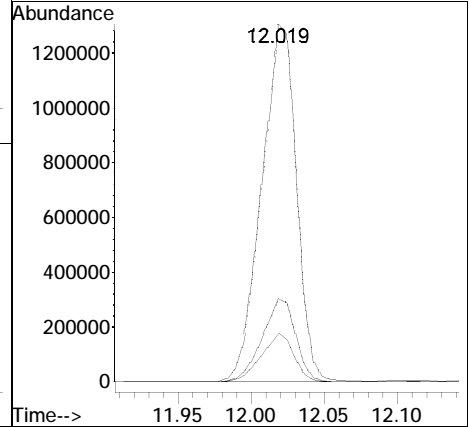
Tgt Ion	Ratio	Lower	Upper
252	100		
125	11.4	12.3	18.5#
253	22.5	19.5	29.3

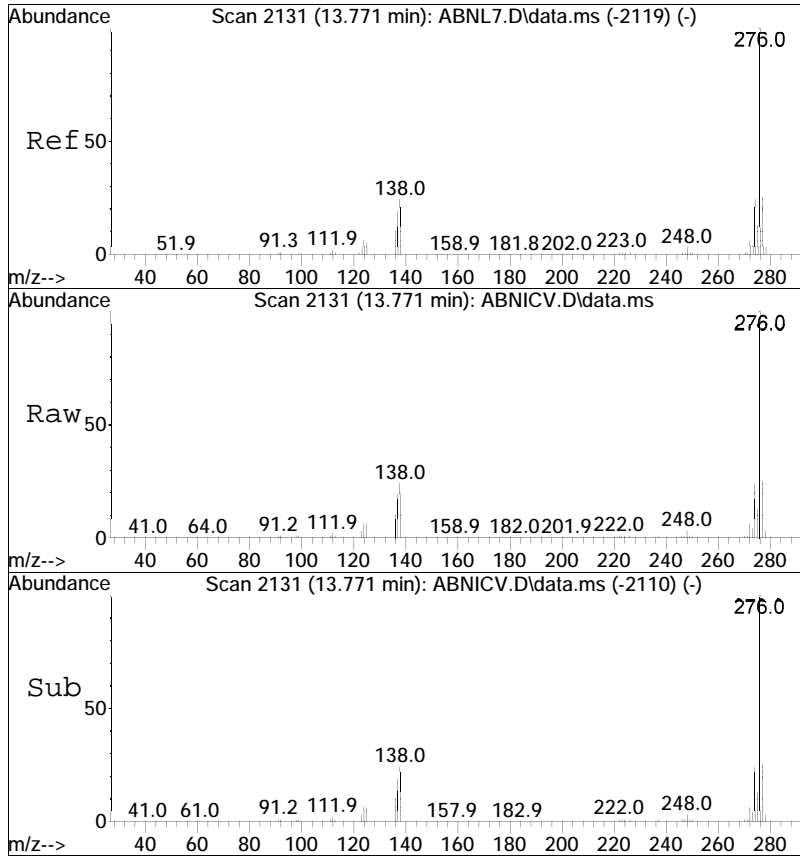




#112
 Benzo(a)pyrene
 Concen: 50.03 ug/ml
 RT: 12.019 min Scan# 1833
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

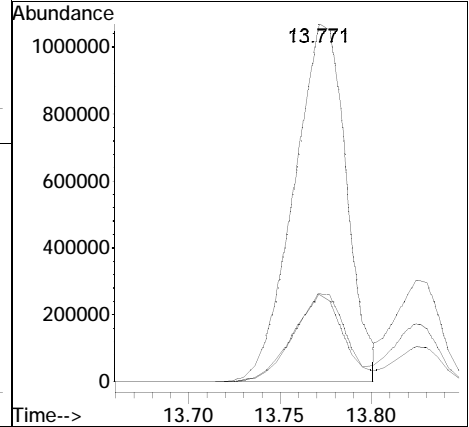
Tgt Ion	Ratio	Lower	Upper
252	100		
125	12.7	12.6	19.0
253	22.6	18.2	27.4

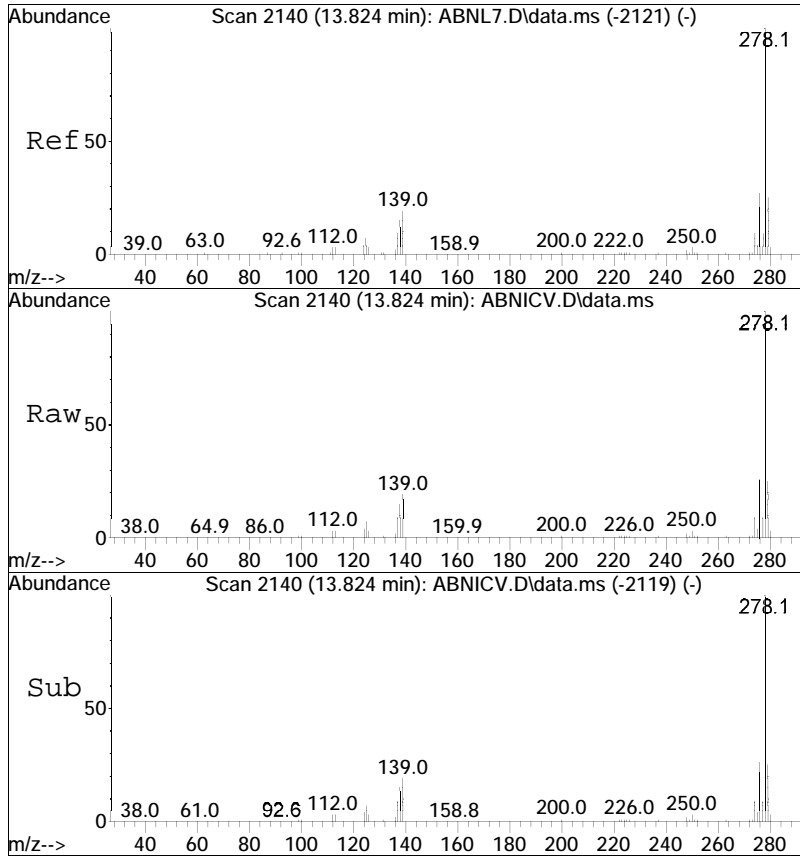




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 49.01 ug/mL
 RT: 13.771 min Scan# 2131
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

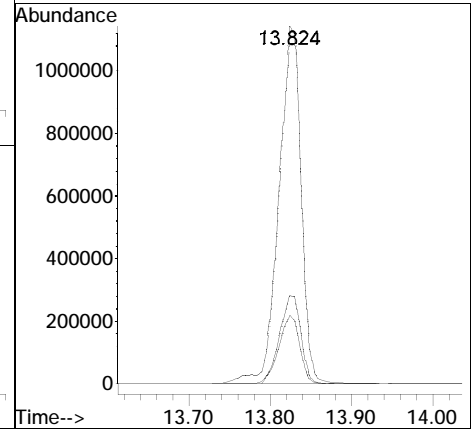
Tgt Ion	Resp	Lower	Upper
276	100		
138	23.2	22.2	33.2
277	24.5	20.1	30.1

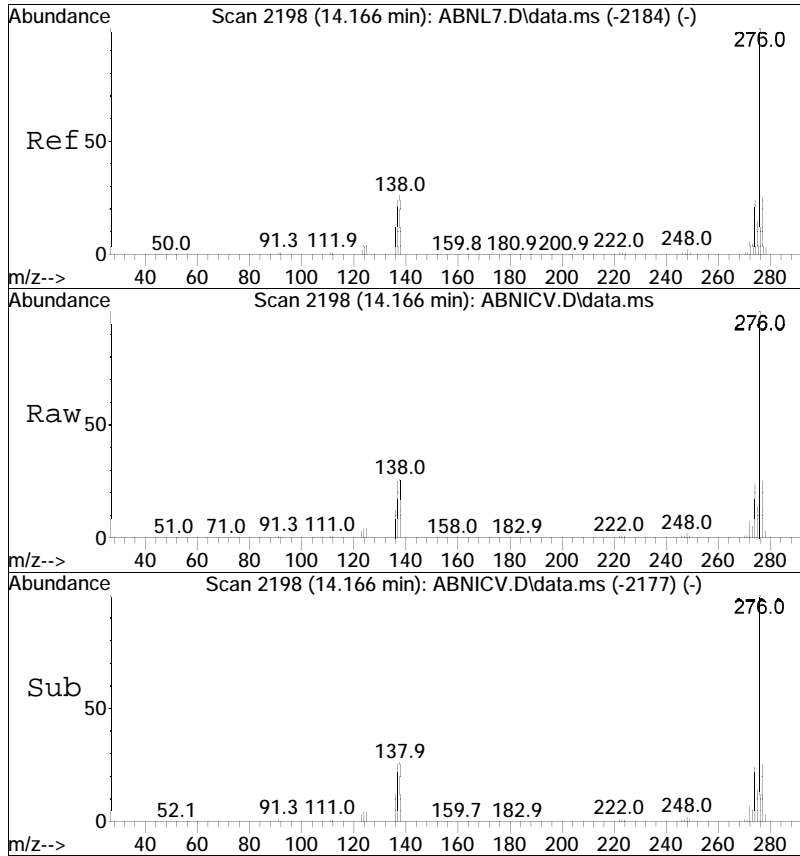




#115
 Dibenzo(a,h)anthracene
 Concen: 48.51 ug/ml
 RT: 13.824 min Scan# 2140
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

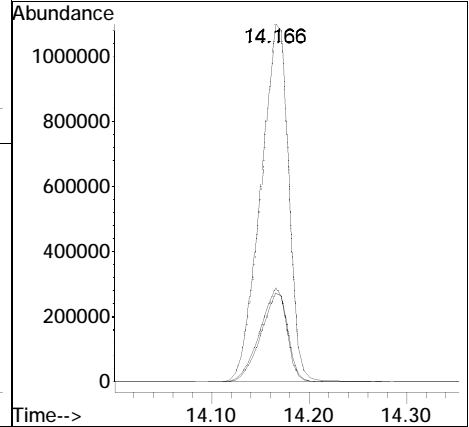
Tgt Ion	Resp	Lower	Upper
278	100		
139	18.0	17.4	26.2
279	24.2	19.7	29.5





#116
 Benzo(ghi)perylene
 Concen: 47.52 ug/ml
 RT: 14.166 min Scan# 2198
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 21 Jul 2023 7:14 am

Tgt Ion	Resp	Lower	Upper
276	100		
138	25.5	24.2	36.4
277	24.5	19.8	29.6



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ABNICV.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 7:14 am Instrument : Juliet
Sample : CQICV1,32,,ABNICV Lot# 100Quant Date : 7/21/2023 9:28 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Juliet\230720ical\
 Data File : AP9ICV.D
 Acq On : 21 Jul 2023 7:38 am
 Operator : JULIET: jg
 Sample : CQICV2,32,,AP9ICV Lot# 10075
 Misc : WG1806439,,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 21 21:34:21 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 21:32:16 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27 I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	119	0.00
28 T	Benzaldehyde	0.709	0.675	4.8	122	0.00
29 T	Acetophenone	1.507	1.624	-7.8	124	0.00
30 T	m-Toluidine	1.296	1.284	0.9	123	0.00
31 T	2-Chloroaniline	1.518	1.581	-4.2	124	0.00
55 I	IS2_Naphthalene-d8	1.000	1.000	0.0	123	0.00
56 T	a-Terpineol	0.186	0.197	-5.9	126	0.00
57 T	3-Chloroaniline	0.100	0.100	0.0	117	0.00
58 T	2,6-Dichlorophenol	0.284	0.293	-3.2	121	0.00
59 T	1-chloro-2-nitrobenzene	0.129	0.128	0.8	120	0.00
60 T	Caprolactam	0.109	0.110	-0.9	125	0.00
61 T	1,2,4,5-Tetrachlorobenzene	0.366	0.369	-0.8	123	0.00
62 T	Biphenyl	0.815	0.807	1.0	122	0.00
83 I	IS2_Acenaphthene-d10	1.000	1.000	0.0	124	0.00
84 T	Dichloran	0.209	0.226	-8.1	124	0.00
85 T	Pentachloronitrobenzene	0.190	0.196	-3.2	122	0.00
98 I	IS2_Phenanthrene-d10	1.000	1.000	0.0	123	0.00
99 T	Diphenamid	0.492	0.505	-2.6	123	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : AP9ICV.D
 Acq On : 21 Jul 2023 7:38 am
 Operator : JULIET: jg
 Sample : CQICV2,32,,AP9ICV Lot# 10075
 Misc : WG1806439,,
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 21 21:34:21 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 21:32:16 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\AP9L7.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.631	152	279531	40.000	ug/ml	0.00
Standard Area 1 = 234375			Recovery	=	119.27%	
55) IS2_Naphthalene-d8	4.725	136	1061090	40.000	ug/ml	0.00
Standard Area 1 = 865859			Recovery	=	122.55%	
83) IS2_Acenaphthene-d10	6.242	164	648990	40.000	ug/ml	0.00
Standard Area 1 = 524605			Recovery	=	123.71%	
98) IS2_Phenanthrene-d10	7.519	188	1408709	40.000	ug/ml	# 0.00
Standard Area 1 = 1149682			Recovery	=	122.53%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.266	105	235744	47.556	ug/ml	95
29) Acetophenone	3.990	105	567504	53.872	ug/ml	94
30) m-Toluidine	4.060	106	448819	49.545	ug/ml	97
31) 2-Chloroaniline	4.378	127	552428	52.086	ug/ml	97
56) a-Terpineol	4.772	59	260998	52.833	ug/ml	92
57) 3-Chloroaniline	4.795	65	132894	50.204	ug/ml	85
58) 2,6-Dichlorophenol	4.813	162	388430	51.617	ug/ml	95
59) 1-chloro-2-nitrobenzene	5.042	111	169579	49.609	ug/ml	95
60) Caprolactam	5.095	55	146321	50.622	ug/ml	90
61) 1,2,4,5-Tetrachloroben...	5.501	216	489290	50.446	ug/ml	99
62) Biphenyl	5.760	154	1070512	49.526	ug/ml	99
84) Dichloran	7.260	206	183083	54.073	ug/ml	85
85) Pentachloronitrobenzene	7.389	237	159204	51.566	ug/ml	96
99) Diphenamid	8.325	167	890005	51.370	ug/ml	89

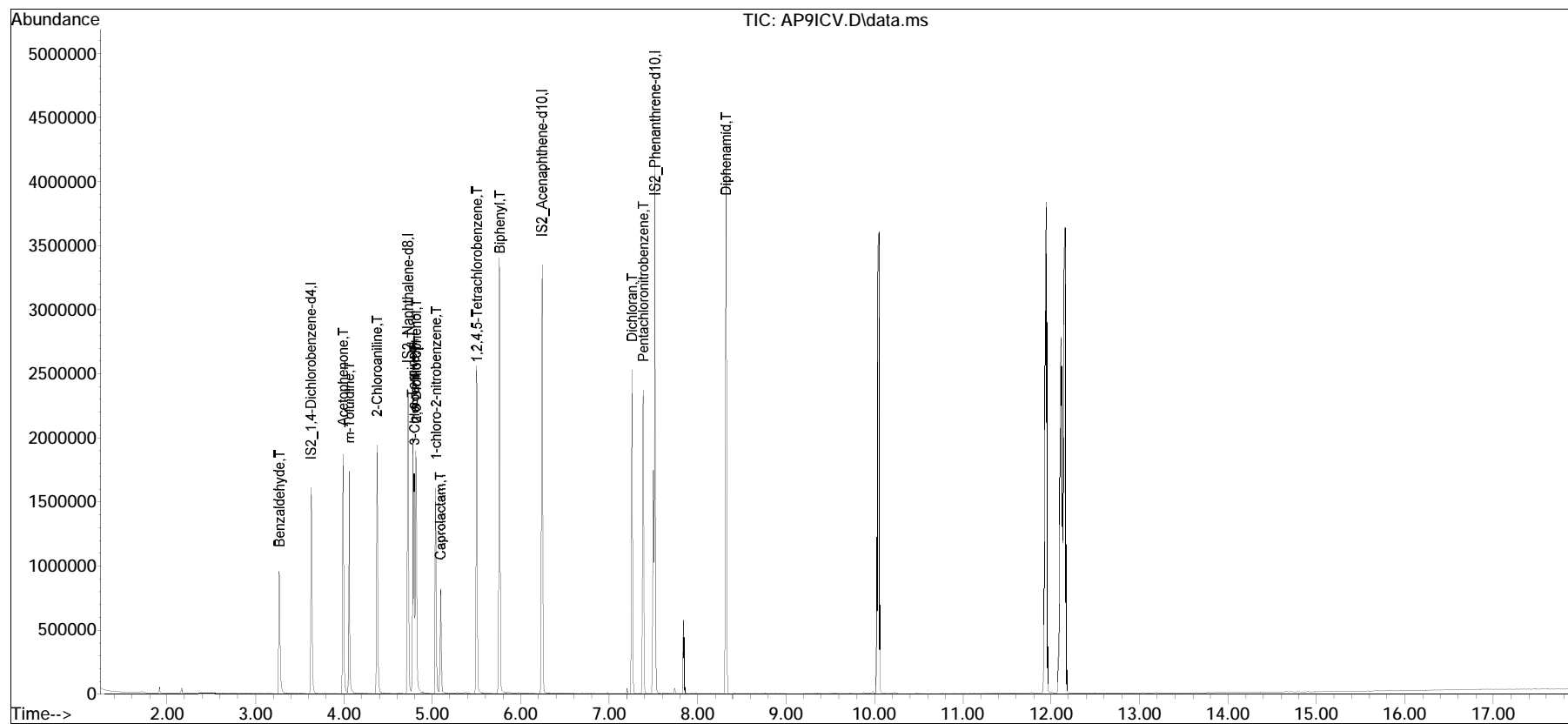
(#) = qualifier out of range (m) = manual integration (+) = signals summed

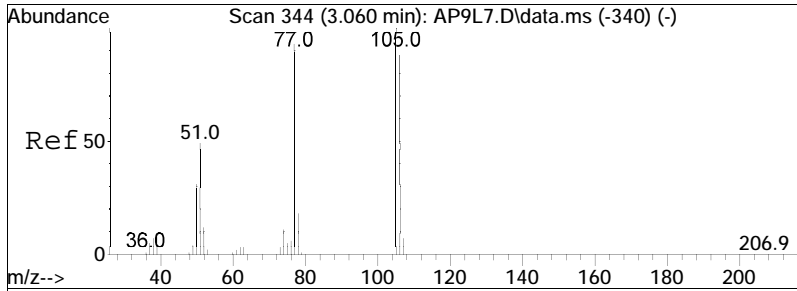
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : AP9ICV.D
Acq On : 21 Jul 2023 7:38 am
Operator : JULIET: jg
Sample : CQICV2,32,,AP9ICV Lot# 10075
Misc : WG1806439,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 21 21:34:21 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 21:32:16 2023
Response via : Initial Calibration

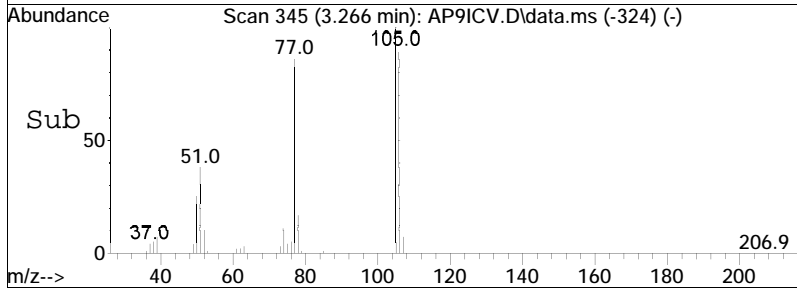
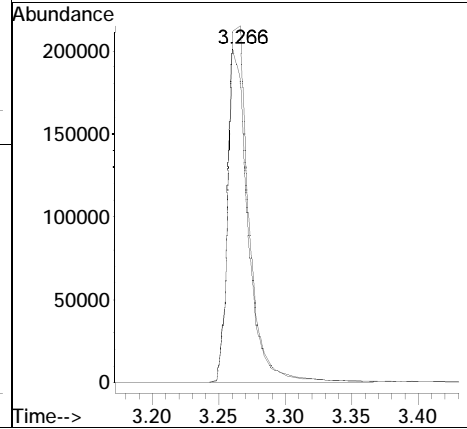
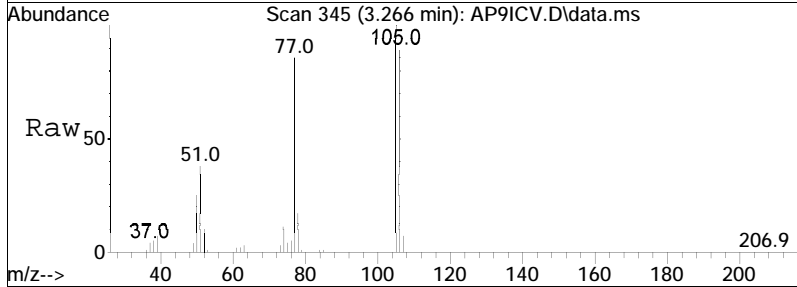
Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•

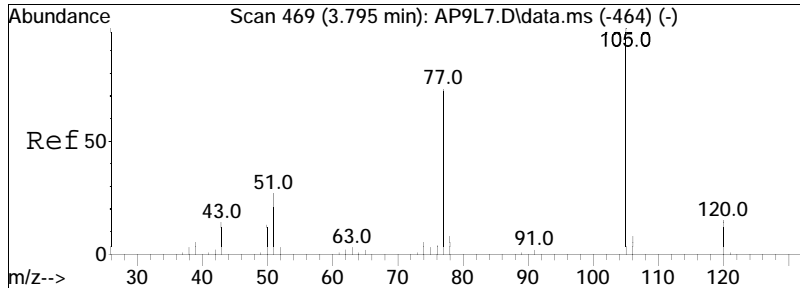




#28
 Benzaldehyde
 Concen: 47.56 ug/ml
 RT: 3.266 min Scan# 345
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 21 Jul 2023 7:38 am

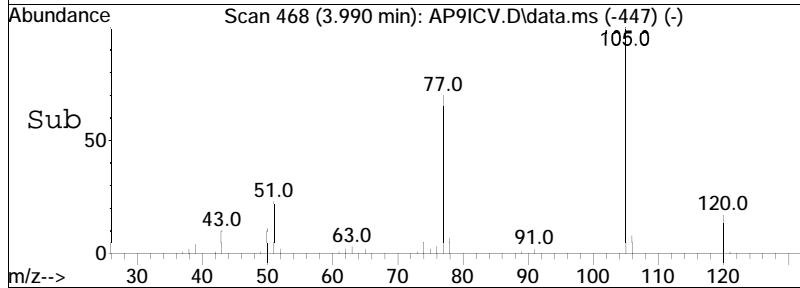
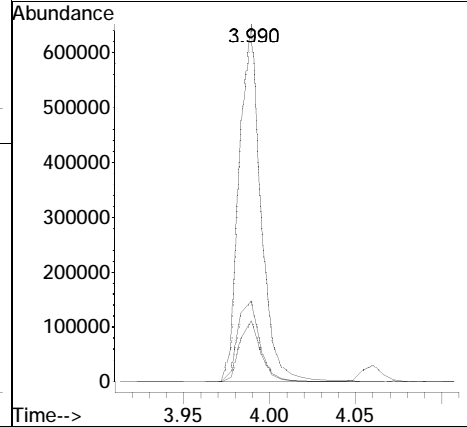
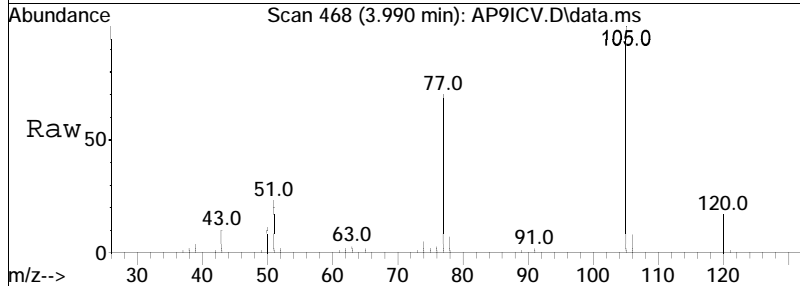
Tgt Ion:105 Resp: 235744
 Ion Ratio Lower Upper
 105 100
 77 90.4 76.4 114.6

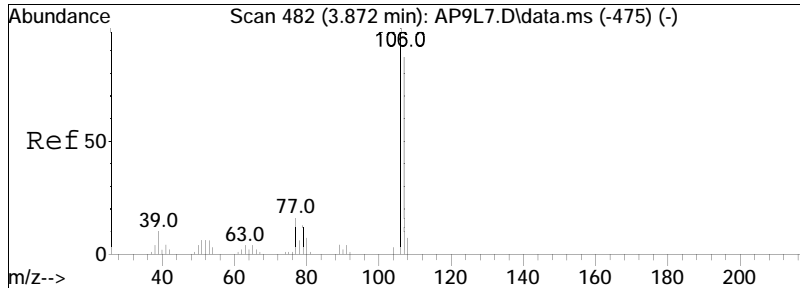




#29
 Acetophenone
 Concen: 53.87 ug/ml
 RT: 3.990 min Scan# 468
 Delta R.T. -0.000 min
 Lab File: AP9ICV.D
 Acq: 21 Jul 2023 7:38 am

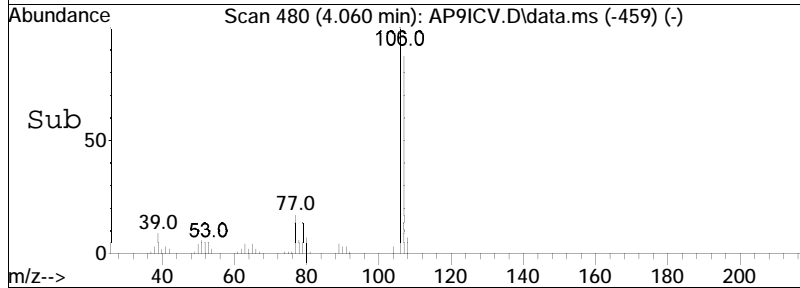
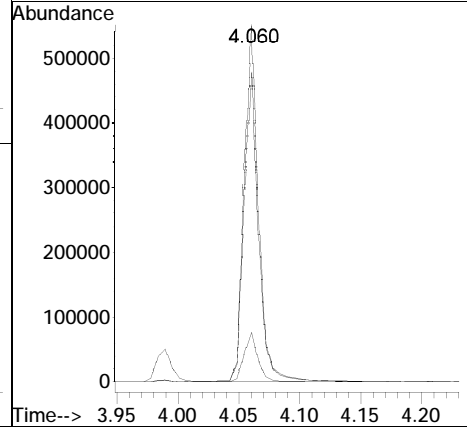
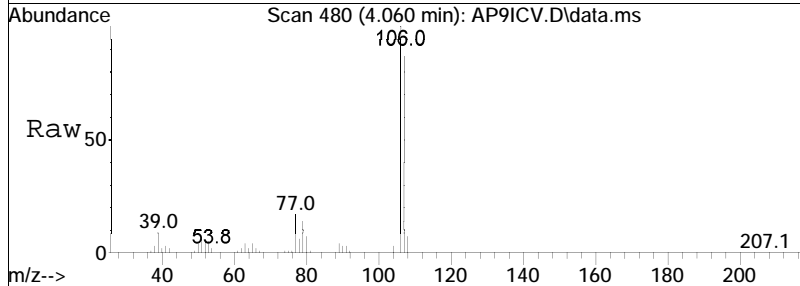
Tgt Ion	Ratio	Lower	Upper
105	100		
120	17.1	14.5	21.7
51	23.4	22.2	33.4

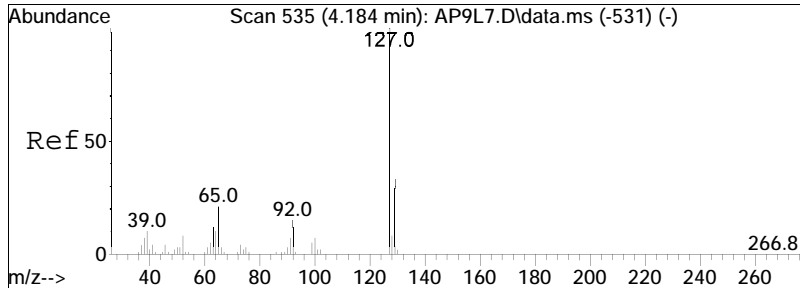




#30
 m-Toluidine
 Concen: 49.55 ug/ml
 RT: 4.060 min Scan# 480
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 21 Jul 2023 7:38 am

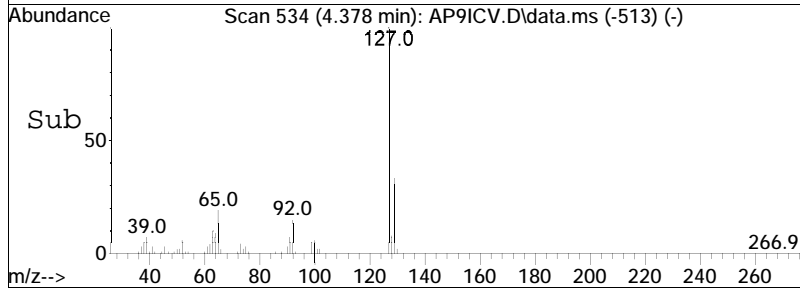
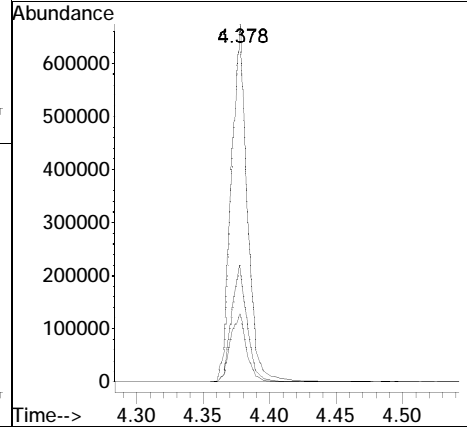
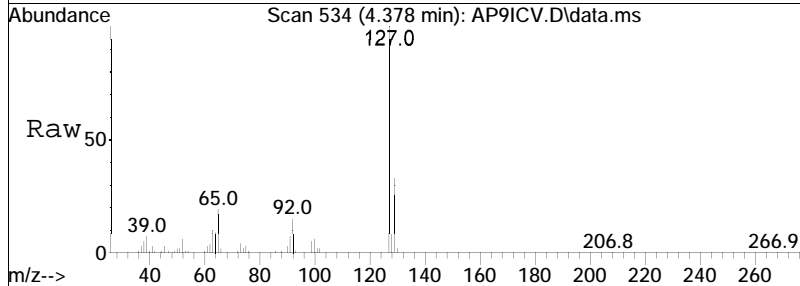
Tgt Ion	Resp	Lower	Upper
106	100		
107	87.9	72.6	108.8
79	13.7	12.1	18.1

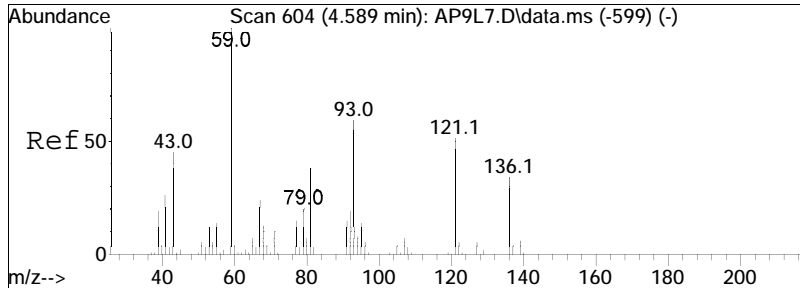




#31
 2-Chloroaniline
 Concen: 52.09 ug/ml
 RT: 4.378 min Scan# 534
 Delta R.T. -0.000 min
 Lab File: AP9ICV.D
 Acq: 21 Jul 2023 7:38 am

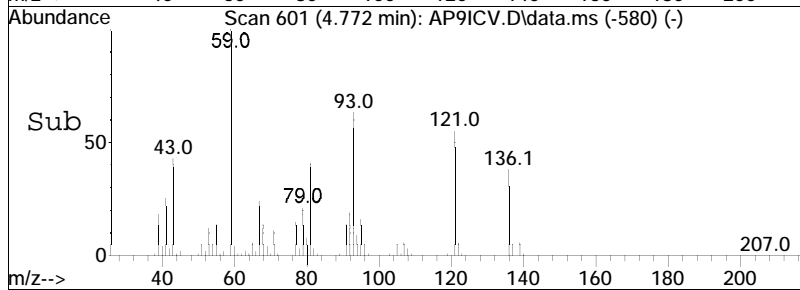
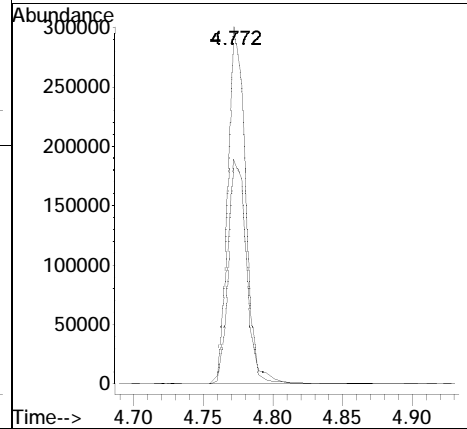
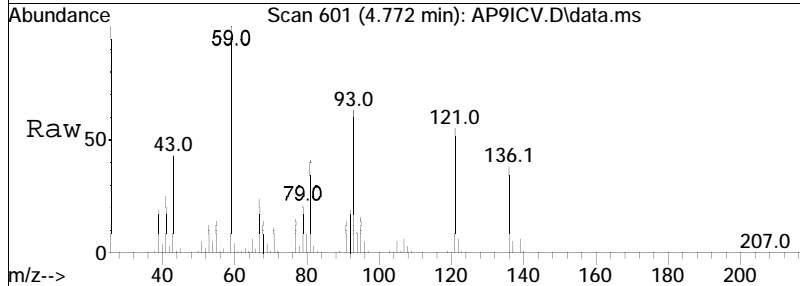
Tgt Ion	Resp	Lower	Upper
127	100		
129	32.3	26.2	39.4
65	19.7	17.8	26.8

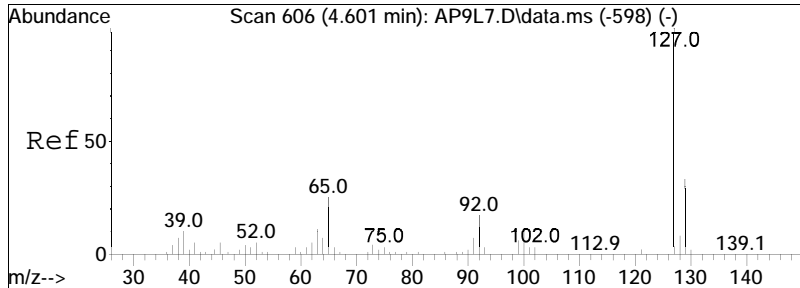




#56
 a-Terpineol
 Concen: 52.83 ug/ml
 RT: 4.772 min Scan# 601
 Delta R.T. -0.000 min
 Lab File: AP9ICV.D
 Acq: 21 Jul 2023 7:38 am

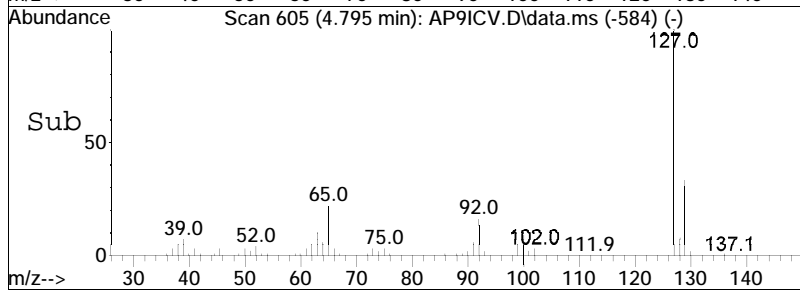
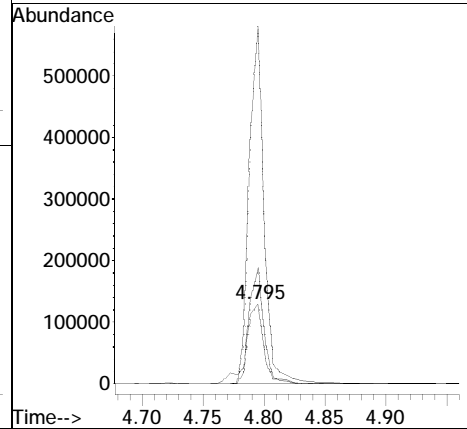
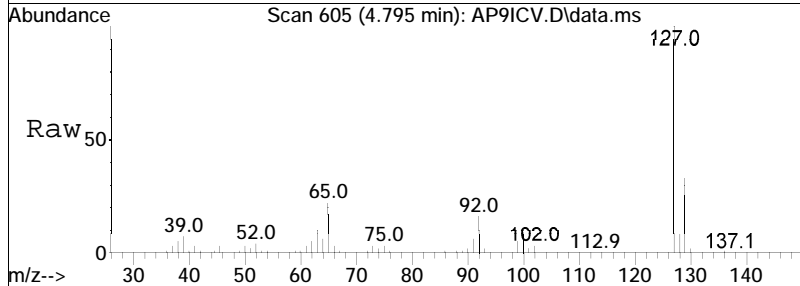
Tgt Ion: 59 Resp: 260998
 Ion Ratio Lower Upper
 59 100
 93 66.6 48.6 73.0

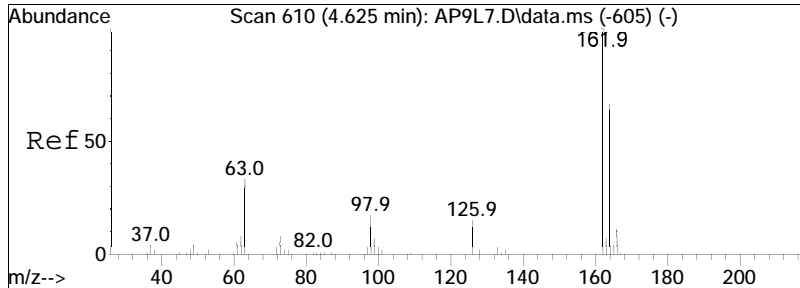




#57
 3-Chloroaniline
 Concen: 50.20 ug/ml
 RT: 4.795 min Scan# 605
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 21 Jul 2023 7:38 am

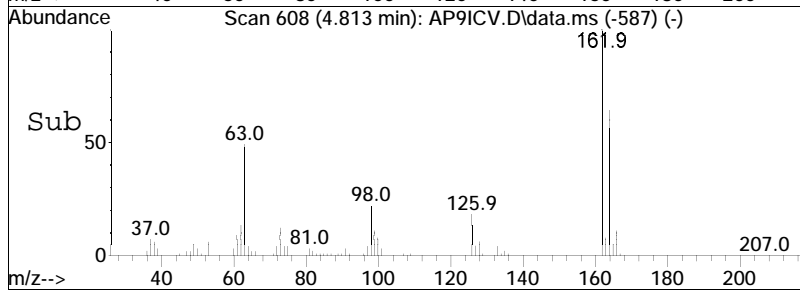
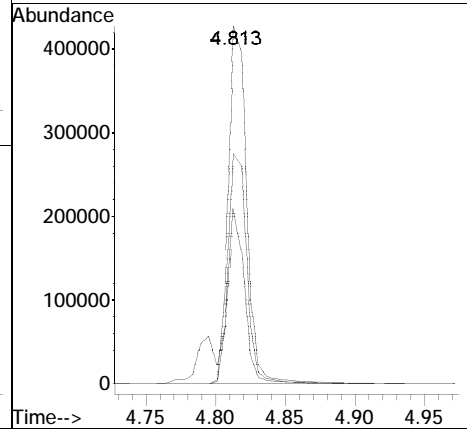
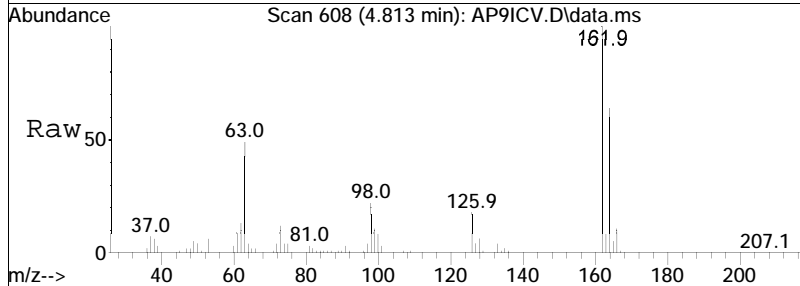
Tgt Ion:	Resp:	Lower	Upper
65	100		
127	366.1	266.4	399.6
129	118.1	84.9	127.3

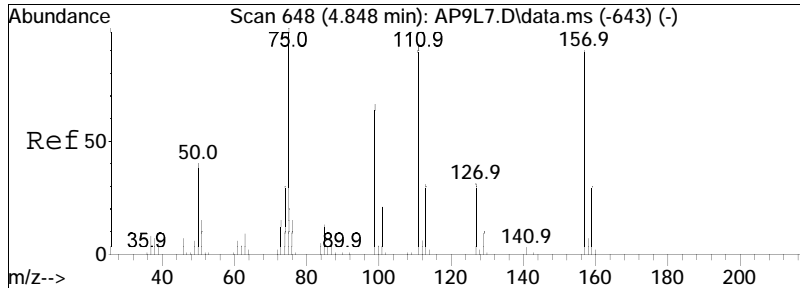




#58
 2,6-Dichlorophenol
 Concen: 51.62 ug/ml
 RT: 4.813 min Scan# 608
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 21 Jul 2023 7:38 am

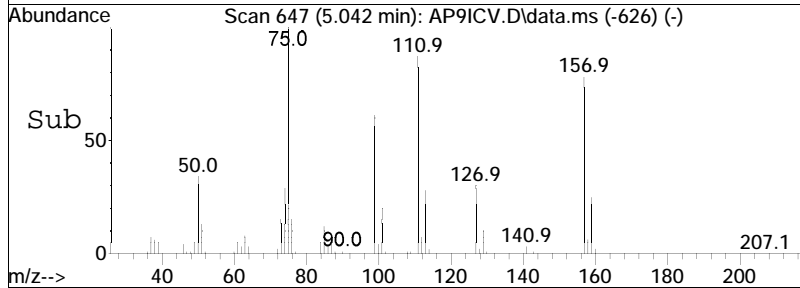
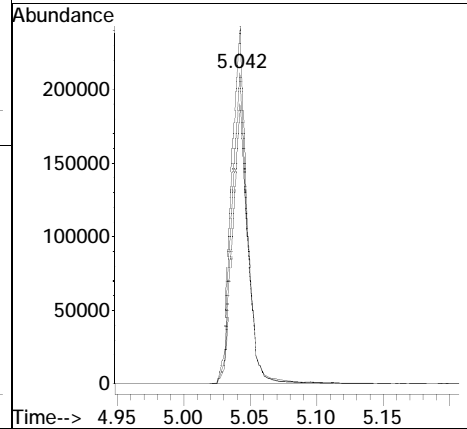
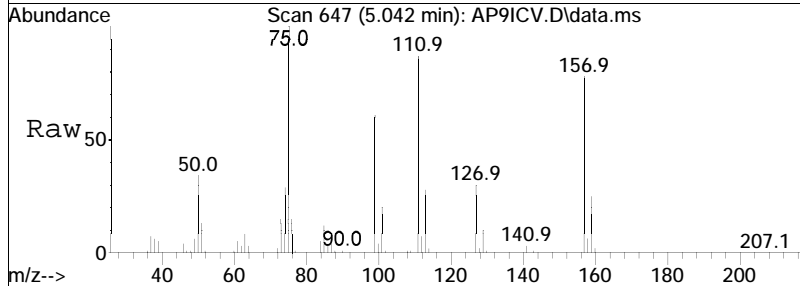
Tgt Ion	Ratio	Lower	Upper
162	100		
164	64.8	51.4	77.2
63	58.6	40.9	61.3

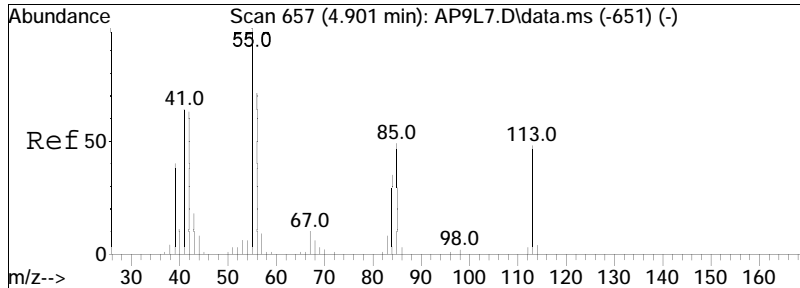




#59
 1-chloro-2-nitrobenzene
 Concen: 49.61 ug/ml
 RT: 5.042 min Scan# 647
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 21 Jul 2023 7:38 am

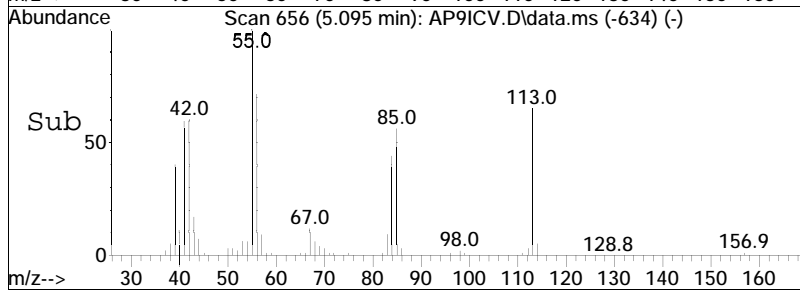
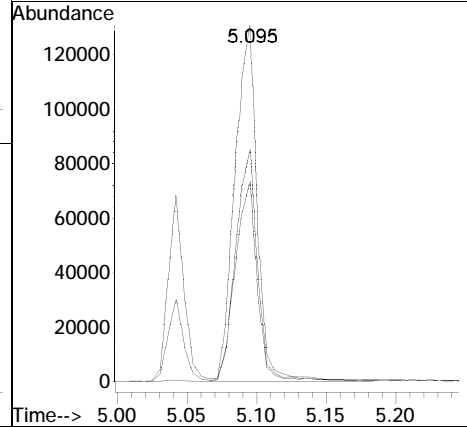
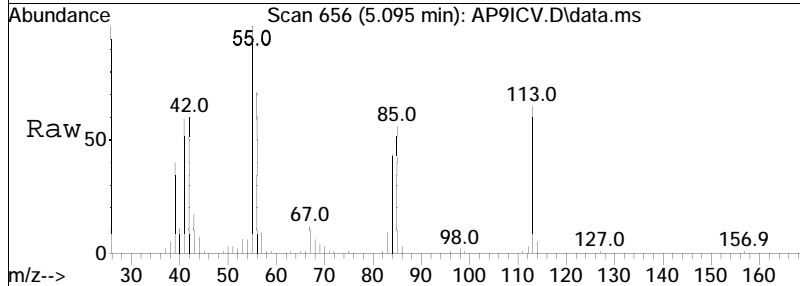
Tgt Ion	Resp	Lower	Upper
111	100		
157	88.0	61.9	92.9
75	116.5	93.6	140.4

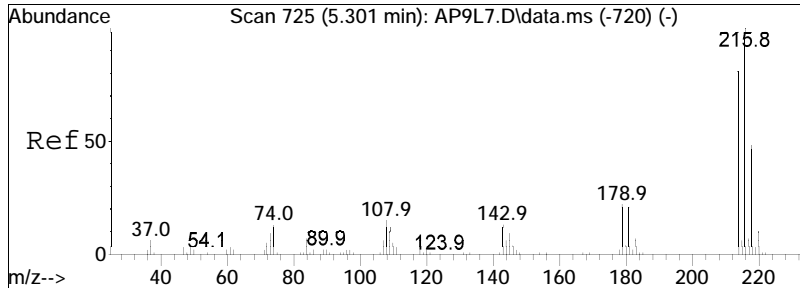




#60
 Caprolactam
 Concen: 50.62 ug/ml
 RT: 5.095 min Scan# 656
 Delta R.T. 0.006 min
 Lab File: AP9ICV.D
 Acq: 21 Jul 2023 7:38 am

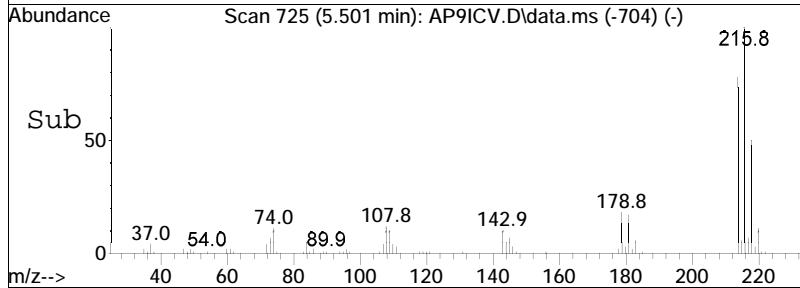
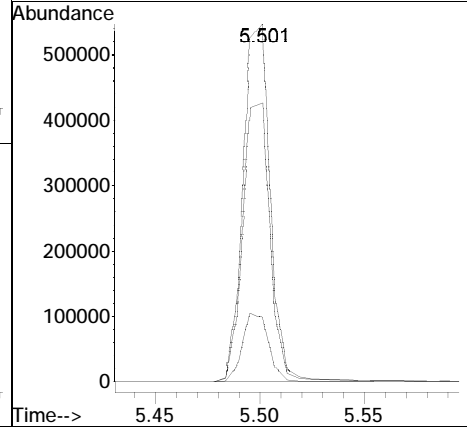
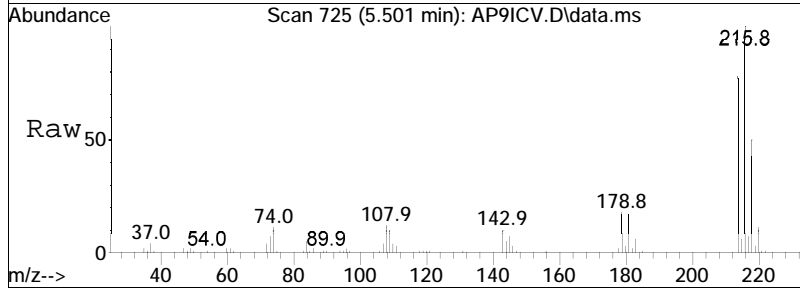
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
55	100		
85	54.7	40.2	60.2
113	63.2	42.8	64.2

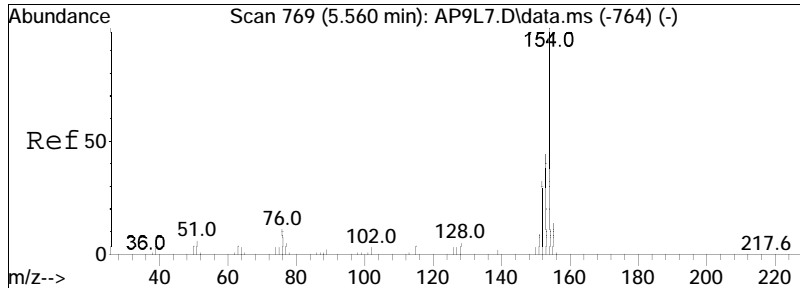




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 50.45 ug/ml
 RT: 5.501 min Scan# 725
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 21 Jul 2023 7:38 am

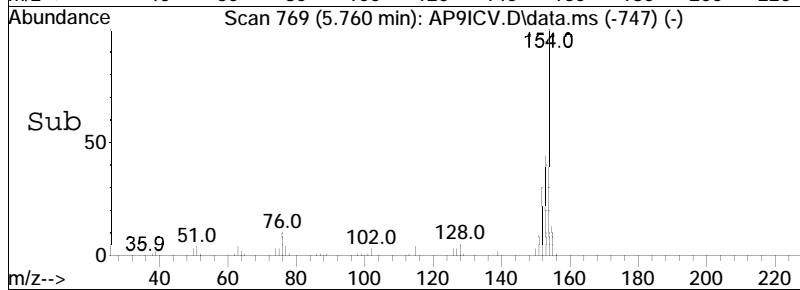
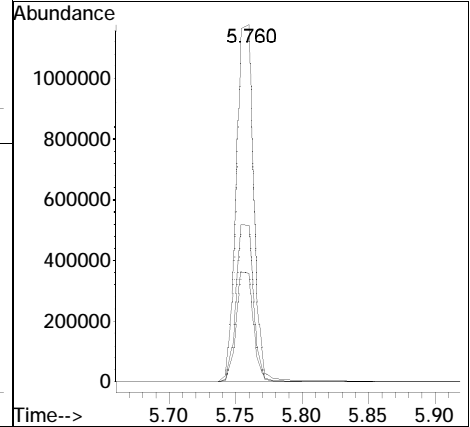
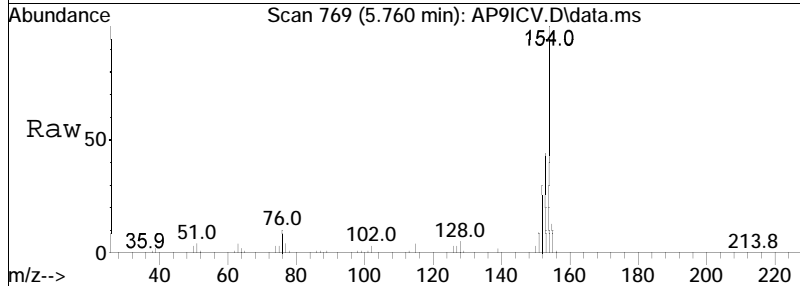
Tgt Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.4	95.2
179	19.0	16.4	24.6

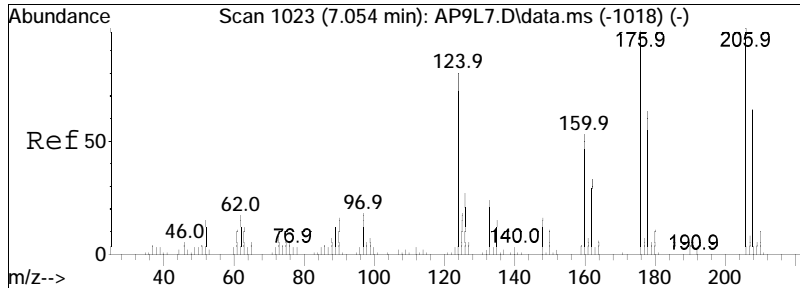




#62
 Biphenyl
 Concen: 49.53 ug/ml
 RT: 5.760 min Scan# 769
 Delta R.T. 0.006 min
 Lab File: AP9ICV.D
 Acq: 21 Jul 2023 7:38 am

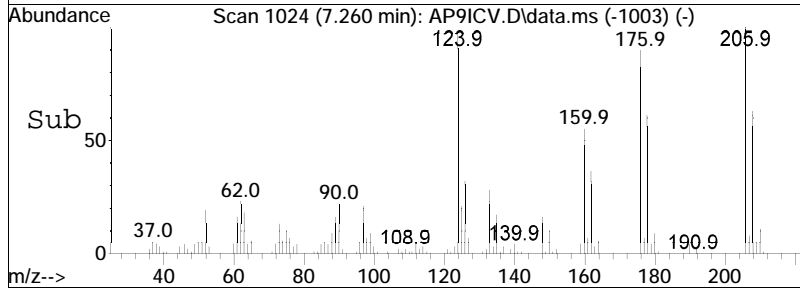
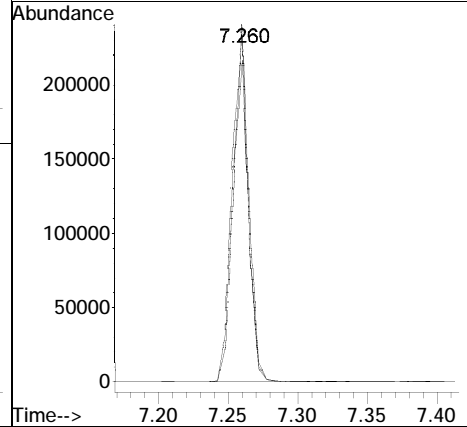
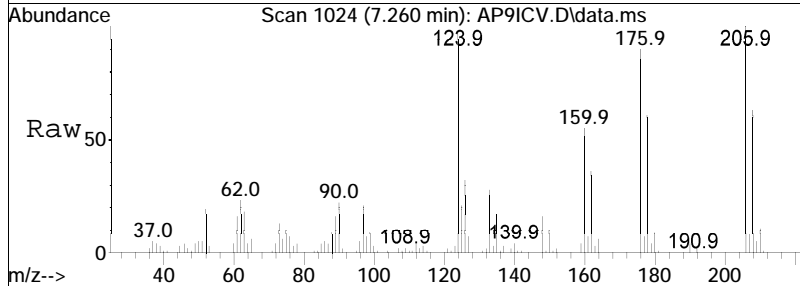
Tgt Ion	Resp	Lower	Upper
154	100		
153	43.9	34.7	52.1
152	30.7	24.0	36.0

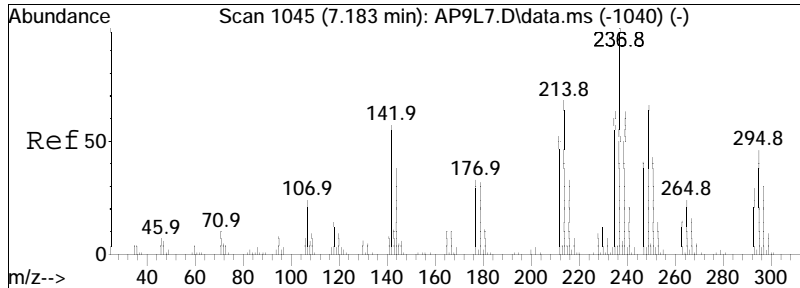




#84
 Dichloran
 Concen: 54.07 ug/ml
 RT: 7.260 min Scan# 1024
 Delta R.T. -0.000 min
 Lab File: AP9ICV.D
 Acq: 21 Jul 2023 7:38 am

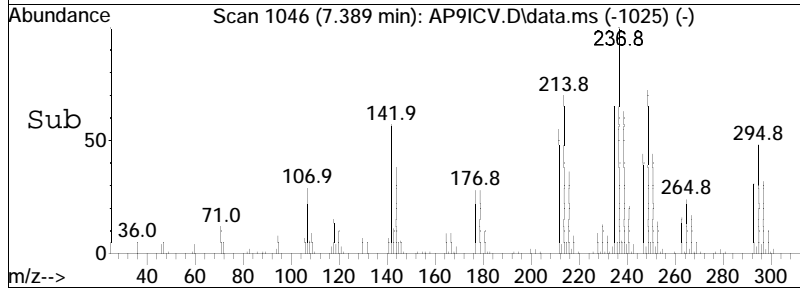
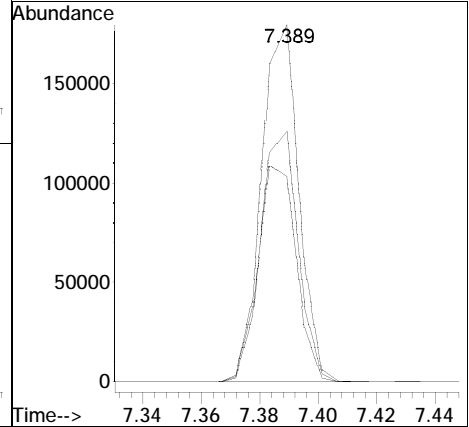
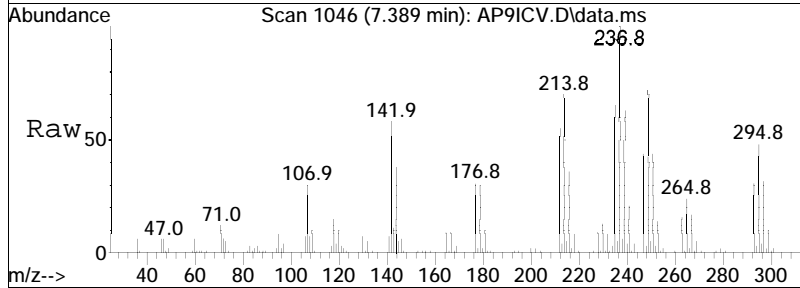
Tgt Ion	Resp	Lower	Upper
206	100		
176	91.9	83.1	124.7
124	101.4	97.8	146.8

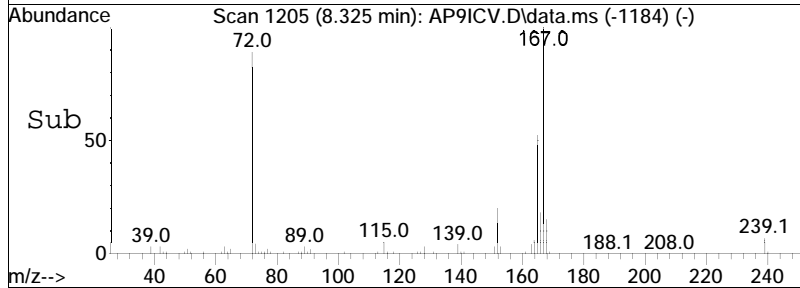
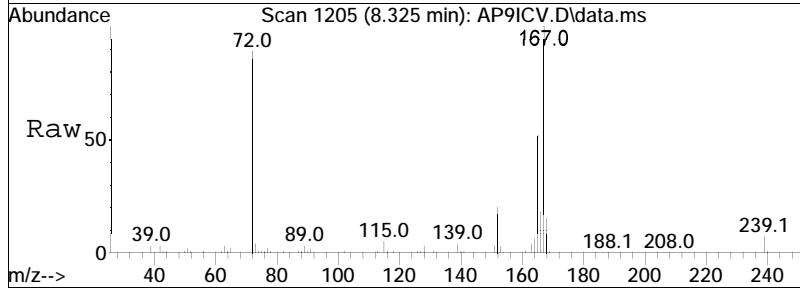
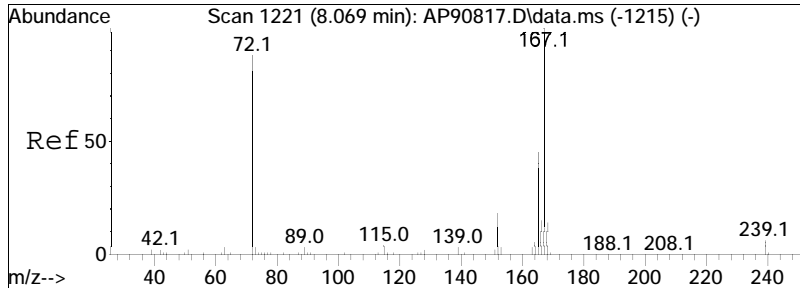




#85
 Pentachloronitrobenzene
 Concen: 51.57 ug/ml
 RT: 7.389 min Scan# 1046
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 21 Jul 2023 7:38 am

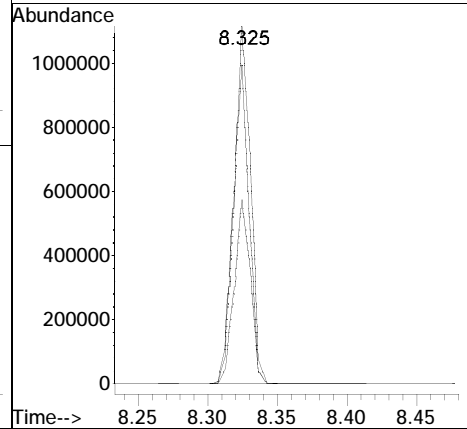
Tgt Ion	Resp	Lower	Upper
237	159204		
237	100		
142	62.8	53.6	80.4
214	70.7	58.6	87.8





#99
 Diphenamid
 Concen: 51.37 ug/ml
 RT: 8.325 min Scan# 1205
 Delta R.T. -0.000 min
 Lab File: AP9ICV.D
 Acq: 21 Jul 2023 7:38 am

Tgt Ion	Resp	Lower	Upper
167	100		
72	87.0	82.6	124.0
165	51.2	39.8	59.8



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : AP9ICV.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 7:38 am Instrument : Juliet
Sample : CQICV2,32,,AP9ICV Lot# 100Quant Date : 7/21/2023 9:32 pm

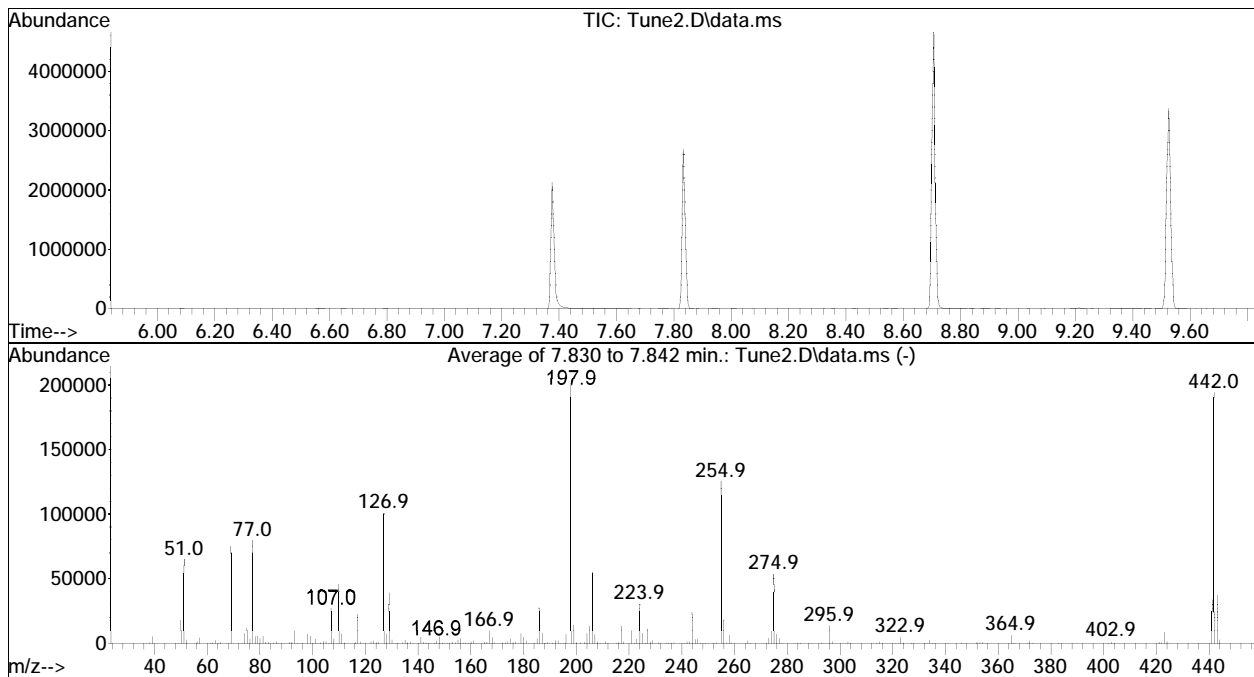
There are no manual integrations or false positives in this file.

DFTPP

Data Path : I:\8270\Juliet\230720ical\
 Data File : Tune2.D
 Acq On : 21 Jul 2023 8:02 am
 Operator : JULIET: jg
 Sample : Tune 2
 Misc : WG1806439,,
 ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Fri Jul 21 21:42:38 2023

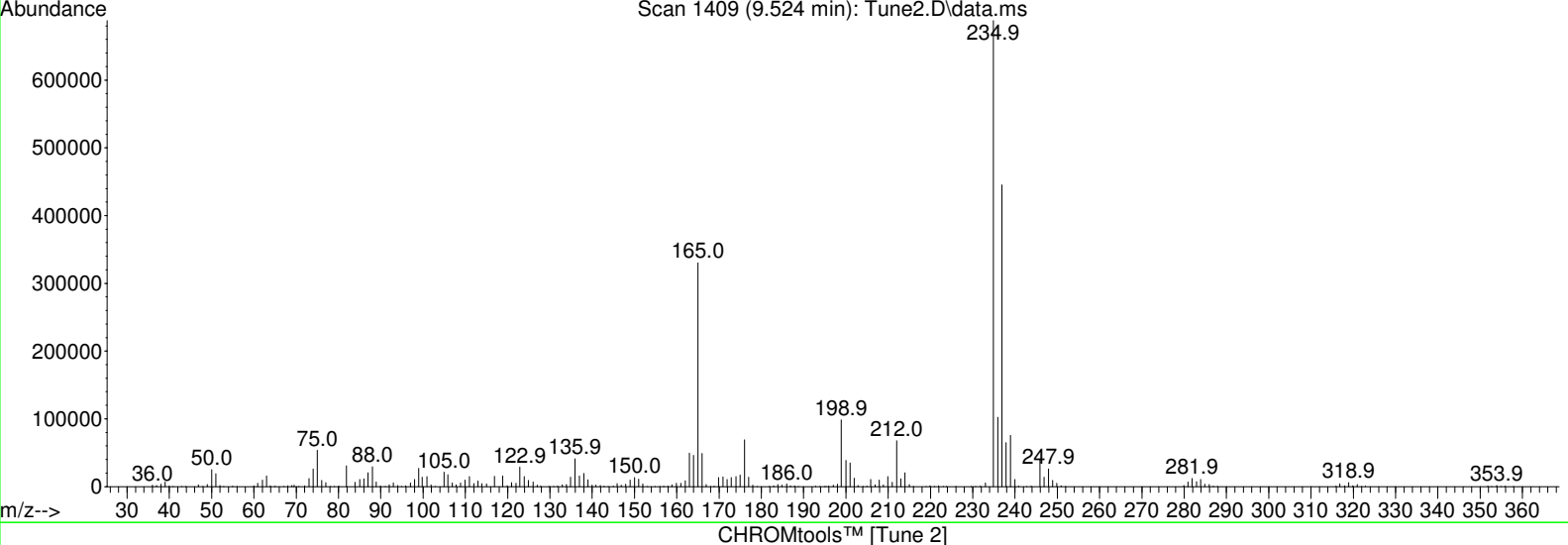
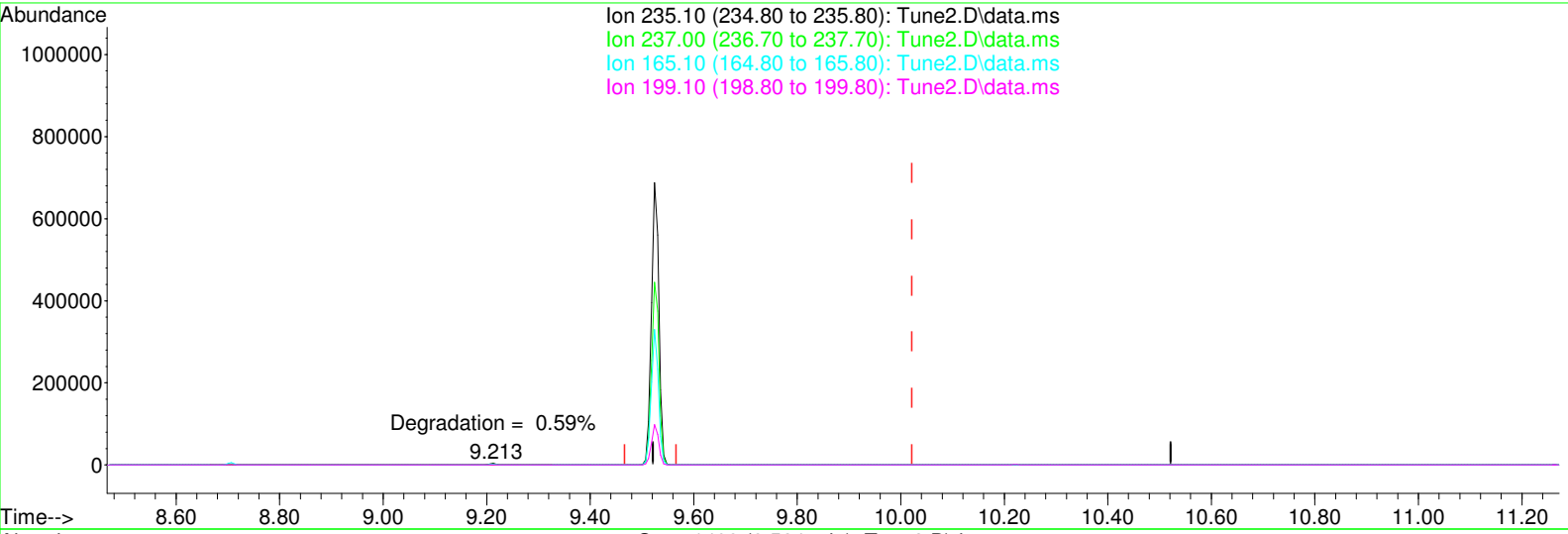


Spectrum Information: Average of 7.830 to 7.842 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	31.6	64600	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	74768	PASS
70	69	0.00	2	0.4	299	PASS
127	198	10	80	49.3	100717	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	204168	PASS
199	198	5	9	7.0	14291	PASS
275	198	10	60	26.1	53275	PASS
365	198	1	100	3.1	6246	PASS
441	442	0.01	24	17.5	34091	PASS
442	198	50	100	95.2	194277	PASS
443	442	15	24	19.1	37088	PASS

Data Path : I:\8270\Juliet\230720ical\
 Data File : Tune2.D
 Acq On : 21 Jul 2023 8:02 am
 Operator : JULIET: jg
 Sample : Tune 2
 Misc : WG1806439,,
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jul 21 09:55:27 2023
 Quant Method : I:\8270\Juliet\230720ical\DftppJuliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 14 10:15:26 2023
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(6) DDT (T)

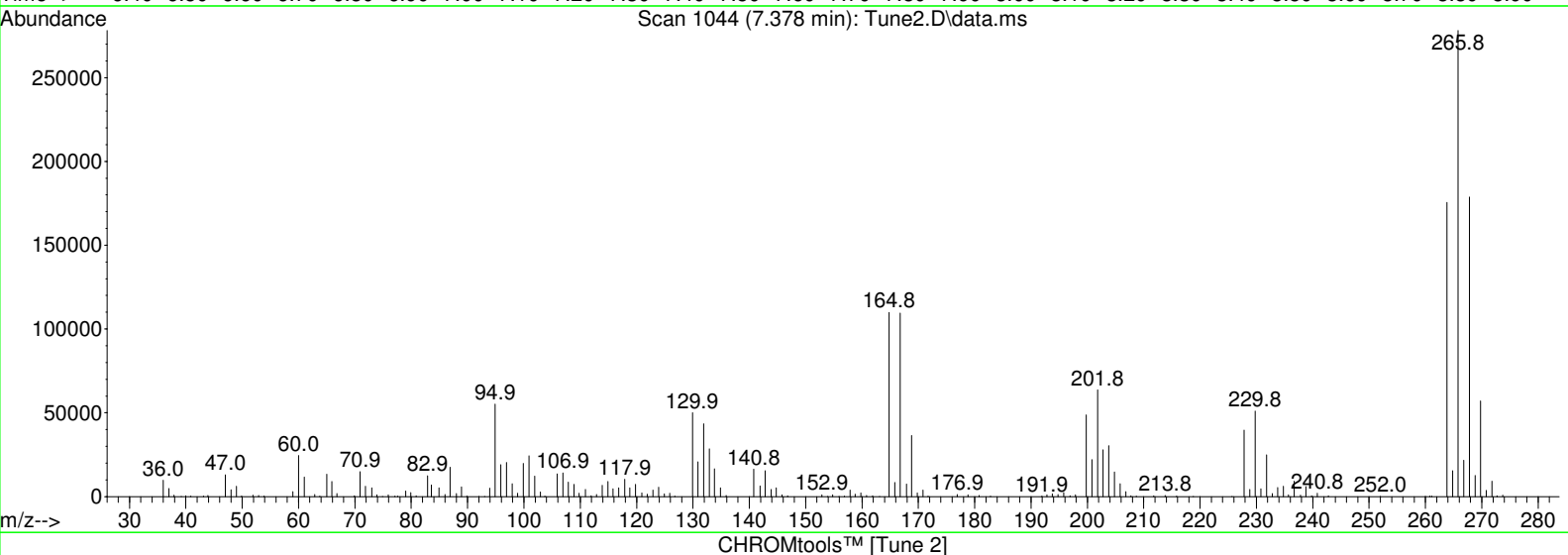
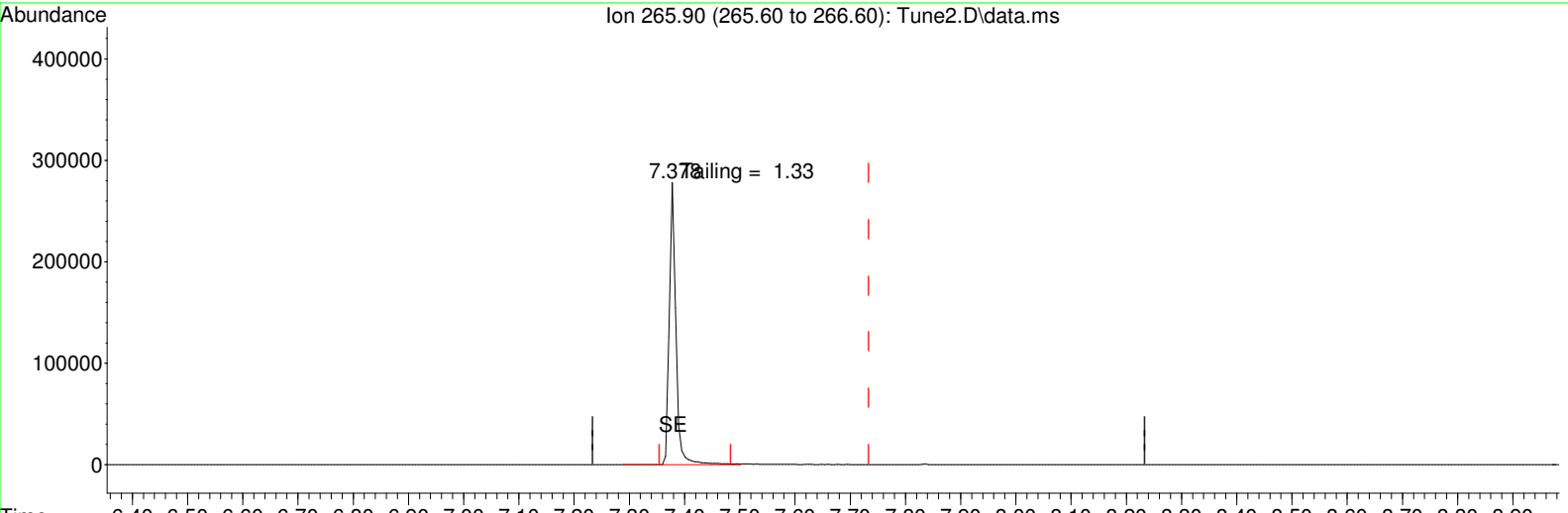
9.524min (-0.497) 114.24 M2

response 696399

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.90	0.00#
165.10	48.90	0.00#
199.10	15.00	0.00#

Data Path : I:\8270\Juliet\230720ical\
 Data File : Tune2.D
 Acq On : 21 Jul 2023 8:02 am
 Operator : JULIET: jg
 Sample : Tune 2
 Misc : WG1806439,,
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jul 21 09:55:27 2023
 Quant Method : I:\8270\Juliet\230720ical\DftppJuliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 14 10:15:26 2023
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(1) Pentachlorophenol (T)

7.378min (-0.356) 110.25

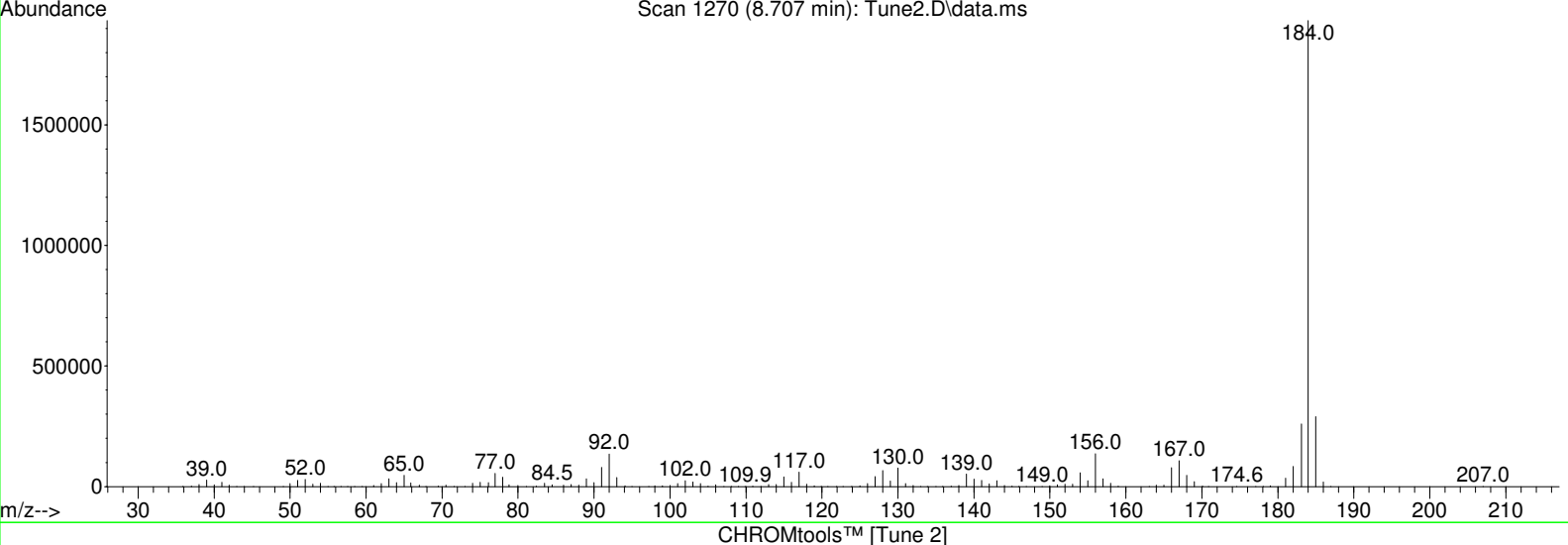
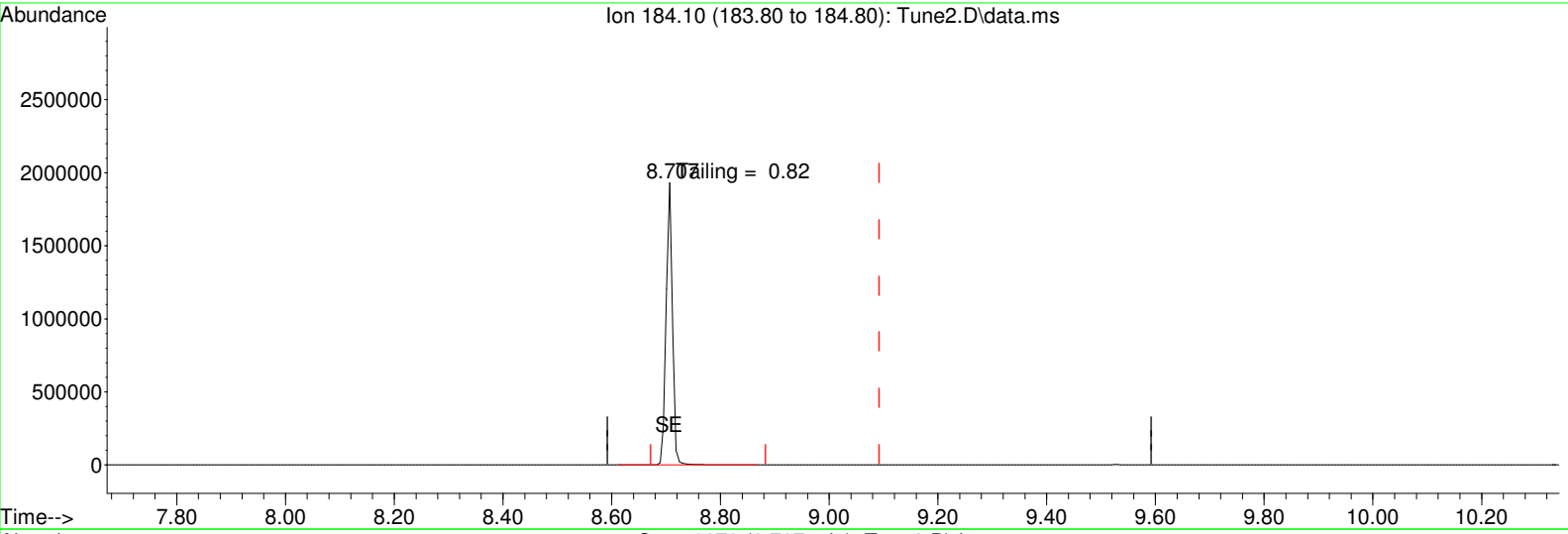
response 231560

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

CHROMtools™ [Tune 2]

Data Path : I:\8270\Juliet\230720ical\
 Data File : Tune2.D
 Acq On : 21 Jul 2023 8:02 am
 Operator : JULIET: jg
 Sample : Tune 2
 Misc : WG1806439,,
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jul 21 09:55:27 2023
 Quant Method : I:\8270\Juliet\230720ical\DftppJuliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 14 10:15:26 2023
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(3) Benzidine (T)

8.707min (-0.385) 155.17

response 1579632

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ADPL10.D
 Acq On : 21 Jul 2023 8:26 am
 Operator : JULIET: jg
 Sample : IL21,32,,ADPL200 Lot# 10054
 Misc : WG1806439,,
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 21 13:50:06 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:46:56 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ADPL7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.637	152	231993	40.000	ug/ml	0.00
Standard Area 1 = 252893			Recovery	=	91.74%	
86) IS3_Acenaphthene-d10	6.242	164	565878	40.000	ug/ml	0.00
Standard Area 1 = 595414			Recovery	=	95.04%	
100) IS3_Phenanthrene-d10	7.519	188	1130713	40.000	ug/ml	0.00
Standard Area 1 = 1311694			Recovery	=	86.20%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.343	88	473171M2	224.755	ug/ml	
34) n-Decane	3.525	57	991518	207.596	ug/ml	96
87) Atrazine	7.336	200	1196901	196.684	ug/ml	99
101) n-Octadecane	7.501	57	1556117	206.306	ug/ml	95
102) Parathion	8.225	109	760660	239.488	ug/ml	95
103) 3,3'-Dimethylbenzidine	9.430	212	4915700	209.352	ug/ml	99

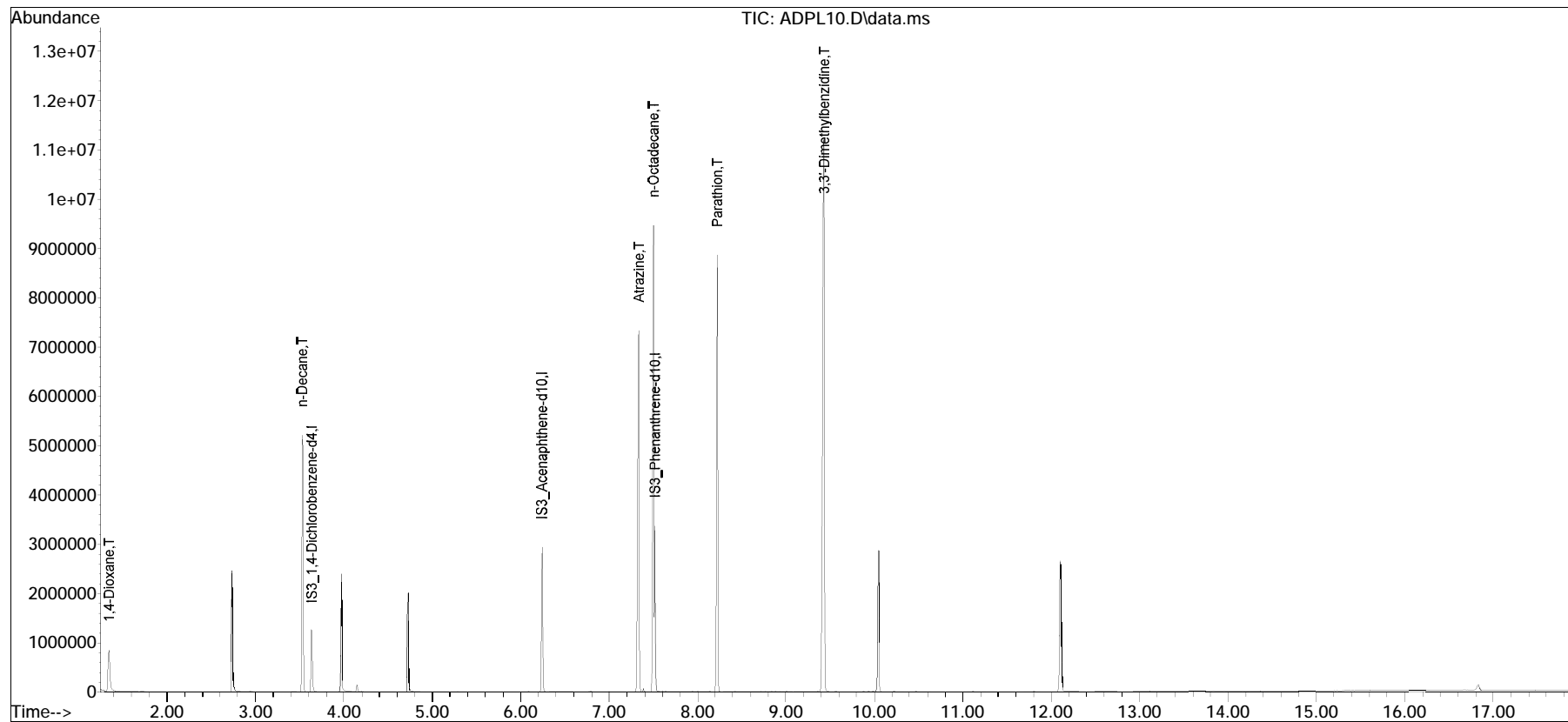
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : ADPL10.D
Acq On : 21 Jul 2023 8:26 am
Operator : JULIET: jg
Sample : IL21,32,,ADPL200 Lot# 10054
Misc : WG1806439,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 21 13:50:06 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 13:46:56 2023
Response via : Initial Calibration

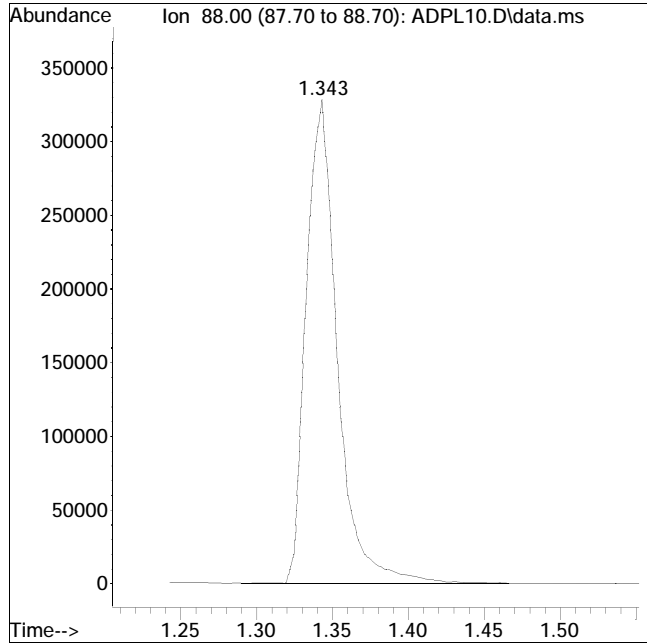
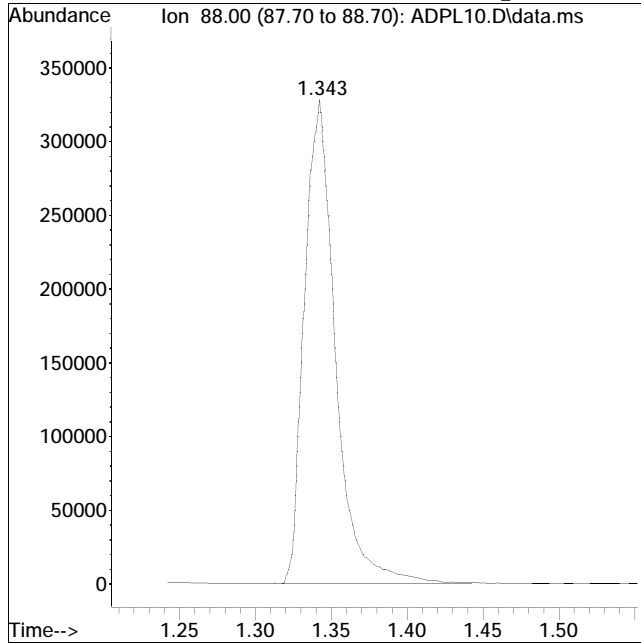
Sub List : ADPical_REV2 - ADP sublistcal\ADPL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ADPL10.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 8:26 am Instrument : Juliet
Sample : IL21,32,,ADPL200 Lot# 1005Quant Date : 7/21/2023 1:47 pm

Compound #33: 1,4-Dioxane



Original Peak Response = 466536

Manual Peak Response = 473171 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ADPL9.D
 Acq On : 21 Jul 2023 8:50 am
 Operator : JULIET: jg
 Sample : IL22,32,,ADPL150 Lot# 10055
 Misc : WG1806439,,
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 21 13:55:21 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:46:56 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ADPL7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.631	152	227188	40.000	ug/ml	0.00
Standard Area 1 = 252893			Recovery	=	89.84%	
86) IS3_Acenaphthene-d10	6.242	164	559498	40.000	ug/ml	0.00
Standard Area 1 = 595414			Recovery	=	93.97%	
100) IS3_Phenanthrene-d10	7.519	188	1164717	40.000	ug/ml	0.00
Standard Area 1 = 1311694			Recovery	=	88.79%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.337	88	319200M2	154.826	ug/ml	
34) n-Decane	3.525	57	704981	150.725	ug/ml	96
87) Atrazine	7.330	200	954873	158.701	ug/ml	98
101) n-Octadecane	7.495	57	1162483	149.620	ug/ml	94
102) Parathion	8.224	109	601932	183.981	ug/ml	95
103) 3,3'-Dimethylbenzidine	9.424	212	4149390	171.557	ug/ml	99

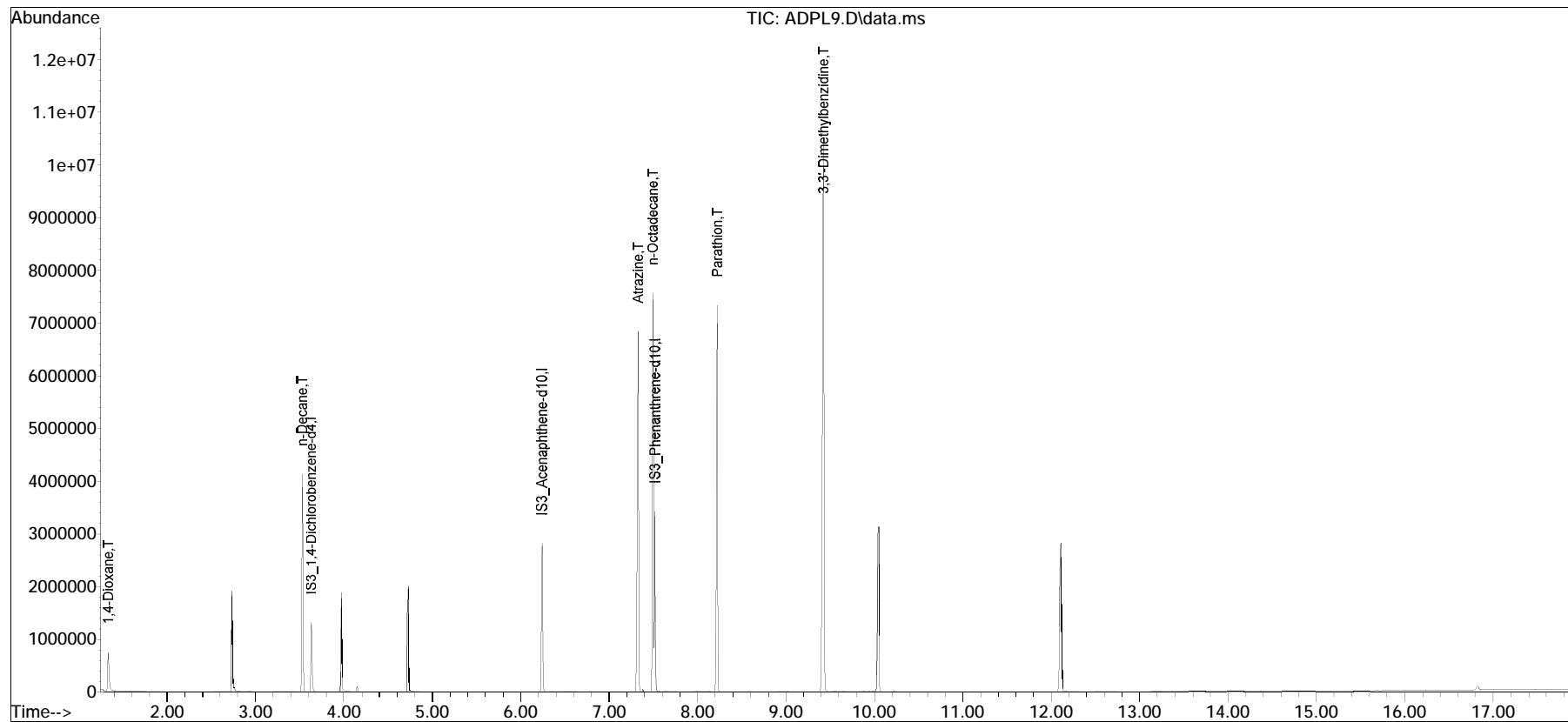
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : ADPL9.D
Acq On : 21 Jul 2023 8:50 am
Operator : JULIET: jg
Sample : IL22,32,,ADPL150 Lot# 10055
Misc : WG1806439,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 21 13:55:21 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 13:46:56 2023
Response via : Initial Calibration

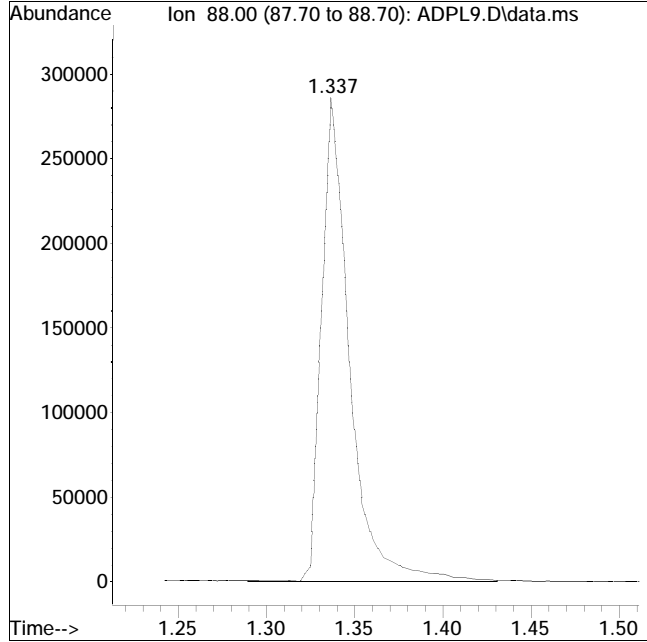
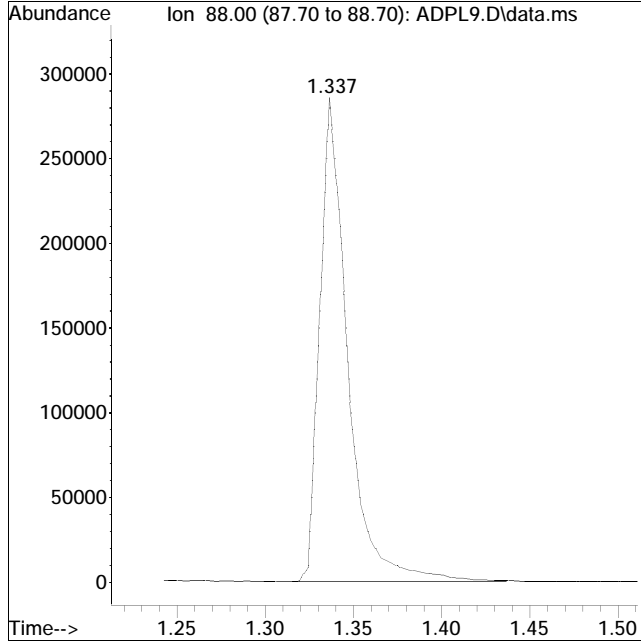
Sub List : ADPical_REV2 - ADP sublistcal\ADPL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ADPL9.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 8:50 am Instrument : Juliet
Sample : IL22,32,,ADPL150 Lot# 1005Quant Date : 7/21/2023 1:48 pm

Compound #33: 1,4-Dioxane



Original Peak Response = 314372

Manual Peak Response = 319200 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ADPL8.D
 Acq On : 21 Jul 2023 9:13 am
 Operator : JULIET: jg
 Sample : IL23,32,,ADPL100 Lot# 10056
 Misc : WG1806439,,
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 21 13:54:54 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:46:56 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ADPL7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.631	152	224358	40.000	ug/ml	0.00
Standard Area 1 = 252893			Recovery =	88.72%		
86) IS3_Acenaphthene-d10	6.242	164	536381	40.000	ug/ml	0.00
Standard Area 1 = 595414			Recovery =	90.09%		
100) IS3_Phenanthrene-d10	7.519	188	1140611	40.000	ug/ml	0.00
Standard Area 1 = 1311694			Recovery =	86.96%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.337	88	215448M2	105.820	ug/ml	
34) n-Decane	3.525	57	470179	101.792	ug/ml	96
87) Atrazine	7.325	200	612650	106.212	ug/ml	98
101) n-Octadecane	7.495	57	786585	103.379	ug/ml	95
102) Parathion	8.219	109	370600	115.668	ug/ml	93
103) 3,3'-Dimethylbenzidine	9.419	212	2707108	114.291	ug/ml	99

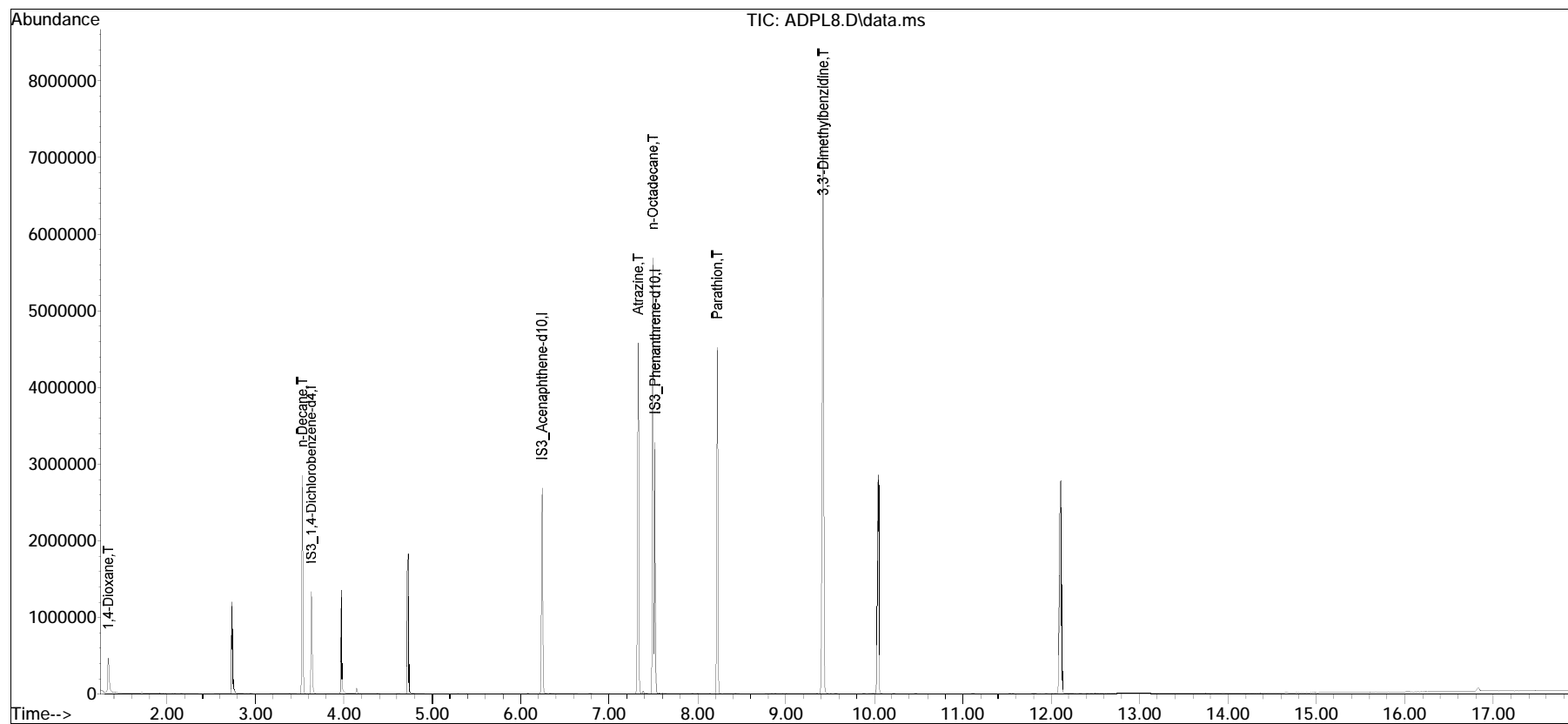
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : ADPL8.D
Acq On : 21 Jul 2023 9:13 am
Operator : JULIET: jg
Sample : IL23,32,,ADPL100 Lot# 10056
Misc : WG1806439,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 21 13:54:54 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 13:46:56 2023
Response via : Initial Calibration

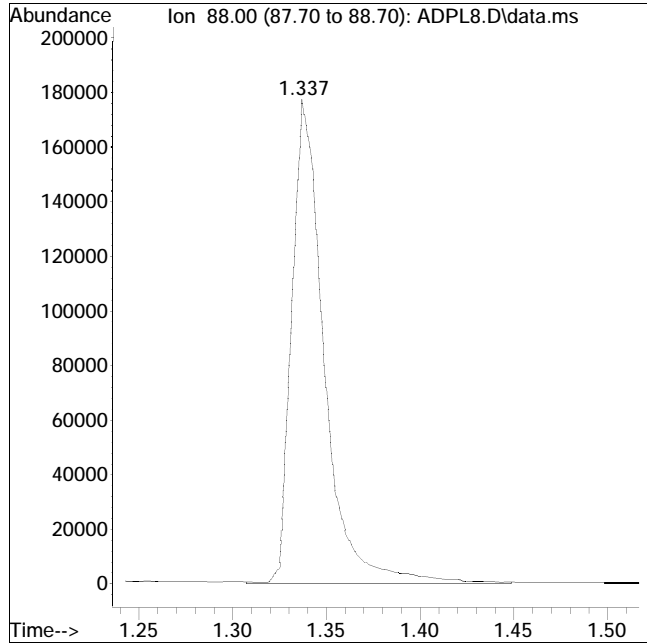
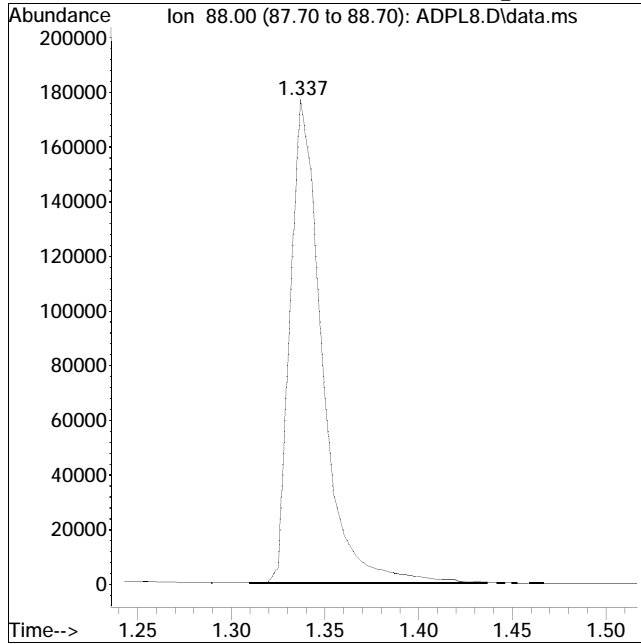
Sub List : ADPical_REV2 - ADP sublistcal\ADPL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ADPL8.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 9:13 am Instrument : Juliet
Sample : IL23,32,,ADPL100 Lot# 1005Quant Date : 7/21/2023 1:48 pm

Compound #33: 1,4-Dioxane



Original Peak Response = 211424

Manual Peak Response = 215448 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ADPL7.D
 Acq On : 21 Jul 2023 9:37 am
 Operator : JULIET: jg
 Sample : IL24,32,,ADPL50 Lot# 10057
 Misc : WG1806439,,
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 21 13:28:01 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:27:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ADPL7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.631	152	252893	40.000	ug/ml	0.00
Standard Area 1 = 252893			Recovery	=	100.00%	
86) IS3_Acenaphthene-d10	6.242	164	595414	40.000	ug/ml	0.00
Standard Area 1 = 595414			Recovery	=	100.00%	
100) IS3_Phenanthrene-d10	7.519	188	1311694	40.000	ug/ml	0.00
Standard Area 1 = 1311694			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.337	88	114747	49.649	ug/ml	97
34) n-Decane	3.525	57	262944	50.108	ug/ml	97
87) Atrazine	7.325	200	335143	50.000	ug/ml	99
101) n-Octadecane	7.495	57	447220	50.000	ug/ml	95
102) Parathion	8.219	109	202895	50.000	ug/ml	95
103) 3,3'-Dimethylbenzidine	9.419	212	1540532	50.000	ug/ml	98

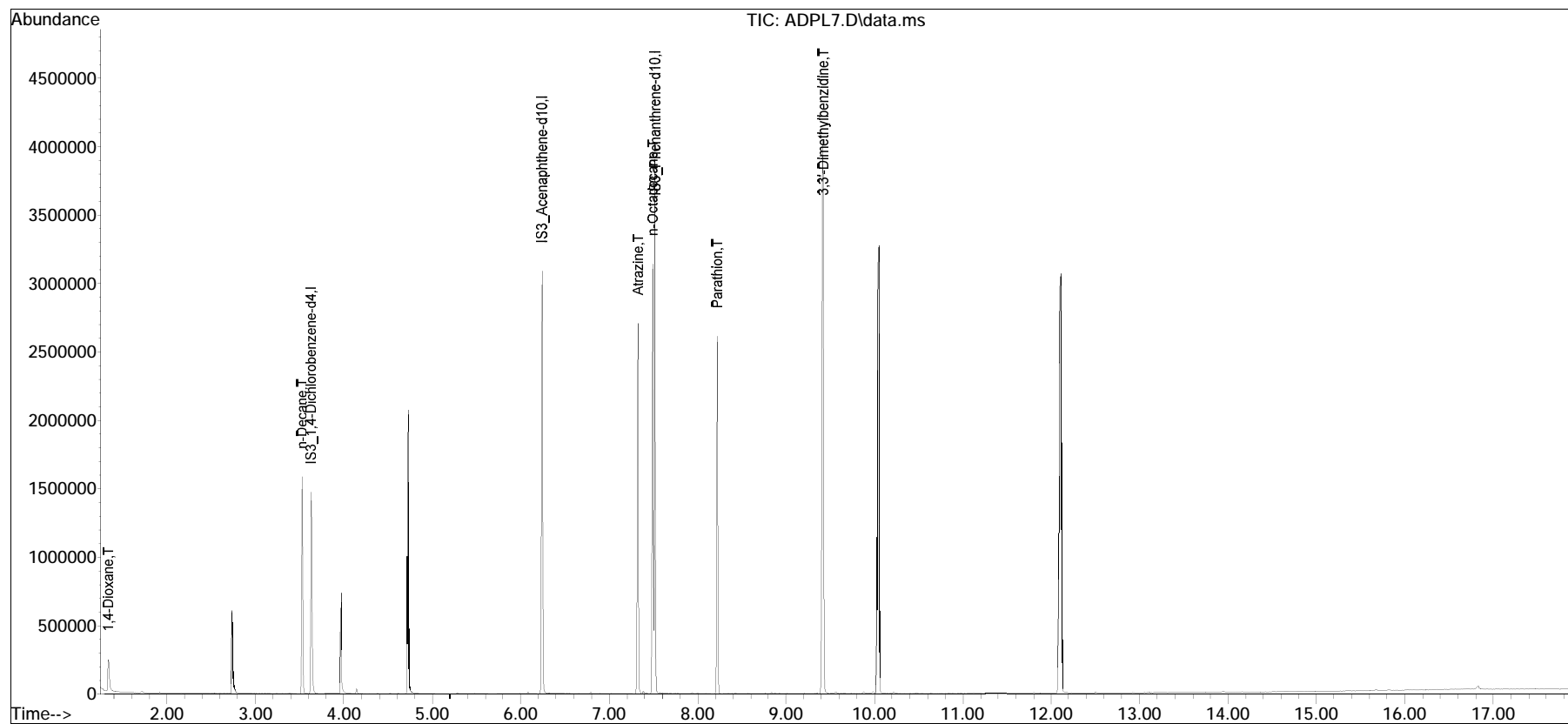
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : ADPL7.D
Acq On : 21 Jul 2023 9:37 am
Operator : JULIET: jg
Sample : IL24,32,,ADPL50 Lot# 10057
Misc : WG1806439,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 21 13:28:01 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 13:27:43 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ADPL7.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 9:37 am Instrument : Juliet
Sample : IL24,32,,ADPL50 Lot# 10057 Quant Date : 7/21/2023 1:27 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ADPL6.D
 Acq On : 21 Jul 2023 10:01 am
 Operator : JULIET: jg
 Sample : IL25,32,,ADPL20 Lot# 10058
 Misc : WG1806439,,
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 21 13:54:25 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:46:56 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ADPL7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.631	152	238123	40.000	ug/ml	0.00
Standard Area 1 = 252893			Recovery	=	94.16%	
86) IS3_Acenaphthene-d10	6.242	164	540597	40.000	ug/ml	0.00
Standard Area 1 = 595414			Recovery	=	90.79%	
100) IS3_Phenanthrene-d10	7.519	188	1211445	40.000	ug/ml	0.00
Standard Area 1 = 1311694			Recovery	=	92.36%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.343	88	47860M2	22.148	ug/ml	
34) n-Decane	3.525	57	101079	20.618	ug/ml	97
87) Atrazine	7.319	200	120254	20.685	ug/ml	98
101) n-Octadecane	7.495	57	167970	20.785	ug/ml	95
102) Parathion	8.219	109	69579	20.447	ug/ml	96
103) 3,3'-Dimethylbenzidine	9.413	212	551006	21.903	ug/ml	98

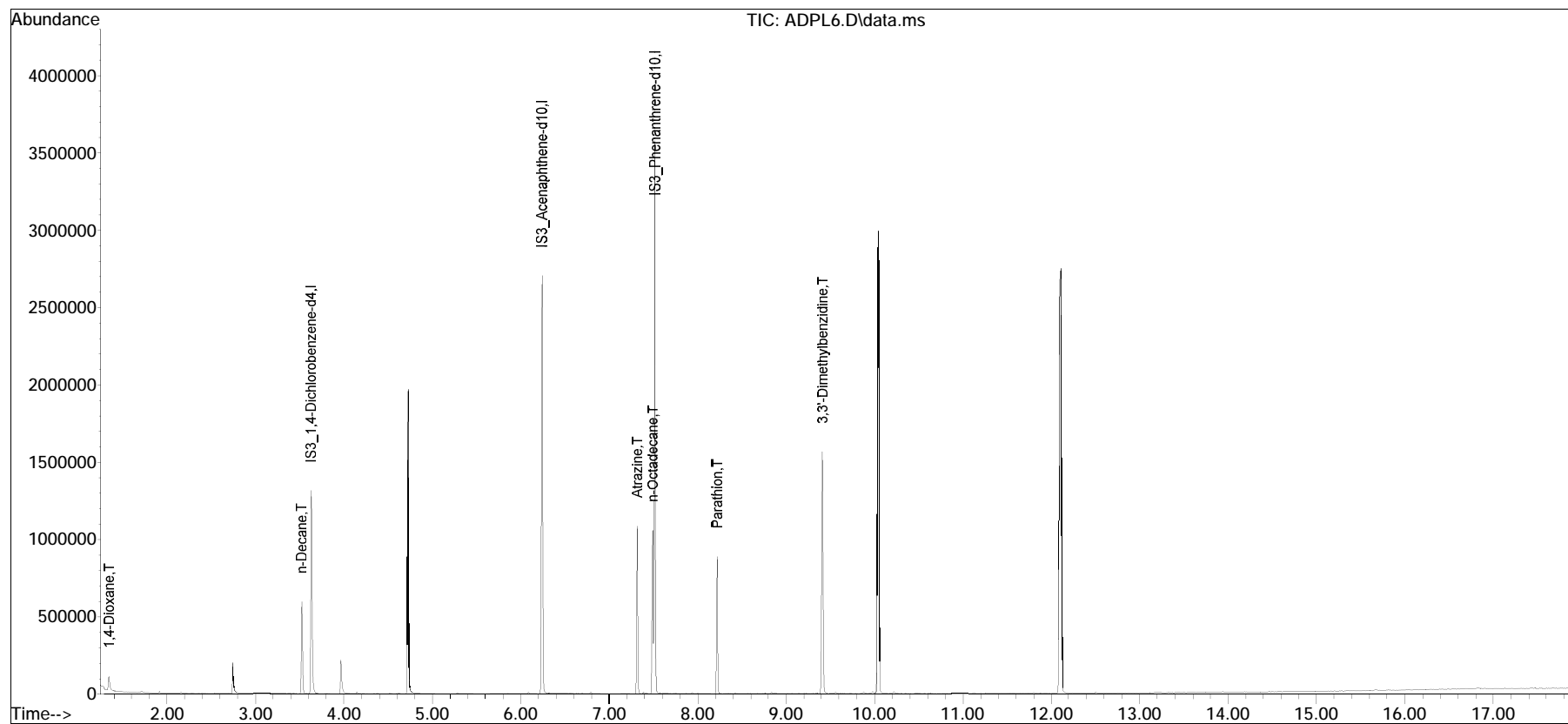
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : ADPL6.D
Acq On : 21 Jul 2023 10:01 am
Operator : JULIET: jg
Sample : IL25,32,,ADPL20 Lot# 10058
Misc : WG1806439,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 21 13:54:25 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 13:46:56 2023
Response via : Initial Calibration

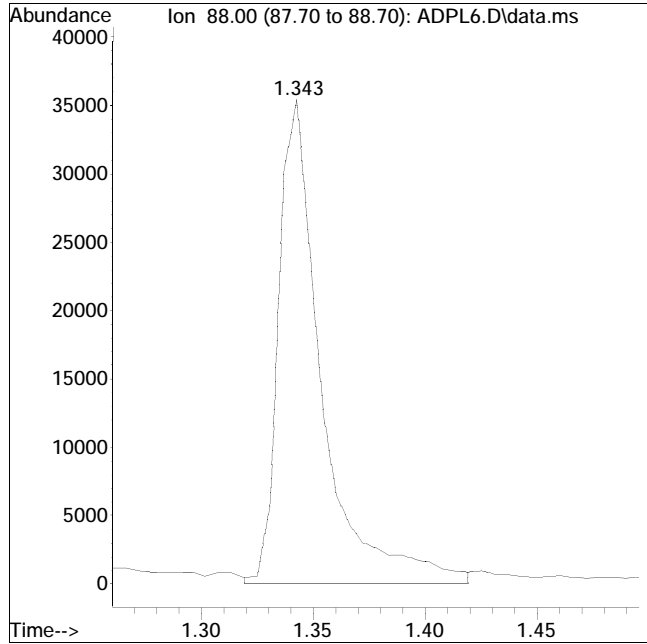
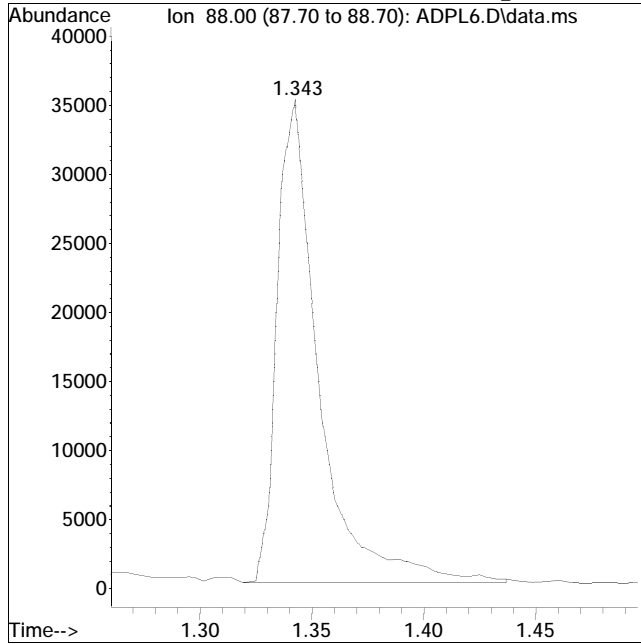
Sub List : ADPical_REV2 - ADP sublistcal\ADPL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ADPL6.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 10:01 am Instrument : Juliet
Sample : IL25,32,,ADPL20 Lot# 10058 Quant Date : 7/21/2023 1:48 pm

Compound #33: 1,4-Dioxane



Original Peak Response = 45431

Manual Peak Response = 47860 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ADPL5.D
 Acq On : 21 Jul 2023 10:25 am
 Operator : JULIET: jg
 Sample : IL26,32,,ADPL10 Lot# 10059
 Misc : WG1806439,,
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 21 13:53:47 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:46:56 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ADPL7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.631	152	216544	40.000	ug/ml	0.00
Standard Area 1 = 252893			Recovery	=	85.63%	
86) IS3_Acenaphthene-d10	6.242	164	505335	40.000	ug/ml	0.00
Standard Area 1 = 595414			Recovery	=	84.87%	
100) IS3_Phenanthrene-d10	7.519	188	1139600	40.000	ug/ml	# 0.00
Standard Area 1 = 1311694			Recovery	=	86.88%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.343	88	20556M2	10.461	ug/ml	
34) n-Decane	3.525	57	46328	10.392	ug/ml	96
87) Atrazine	7.319	200	54135	9.962	ug/ml	98
101) n-Octadecane	7.495	57	75049	9.872	ug/ml	95
102) Parathion	8.219	109	29548	9.230	ug/ml	95
103) 3,3'-Dimethylbenzidine	9.413	212	235462	9.950	ug/ml	97

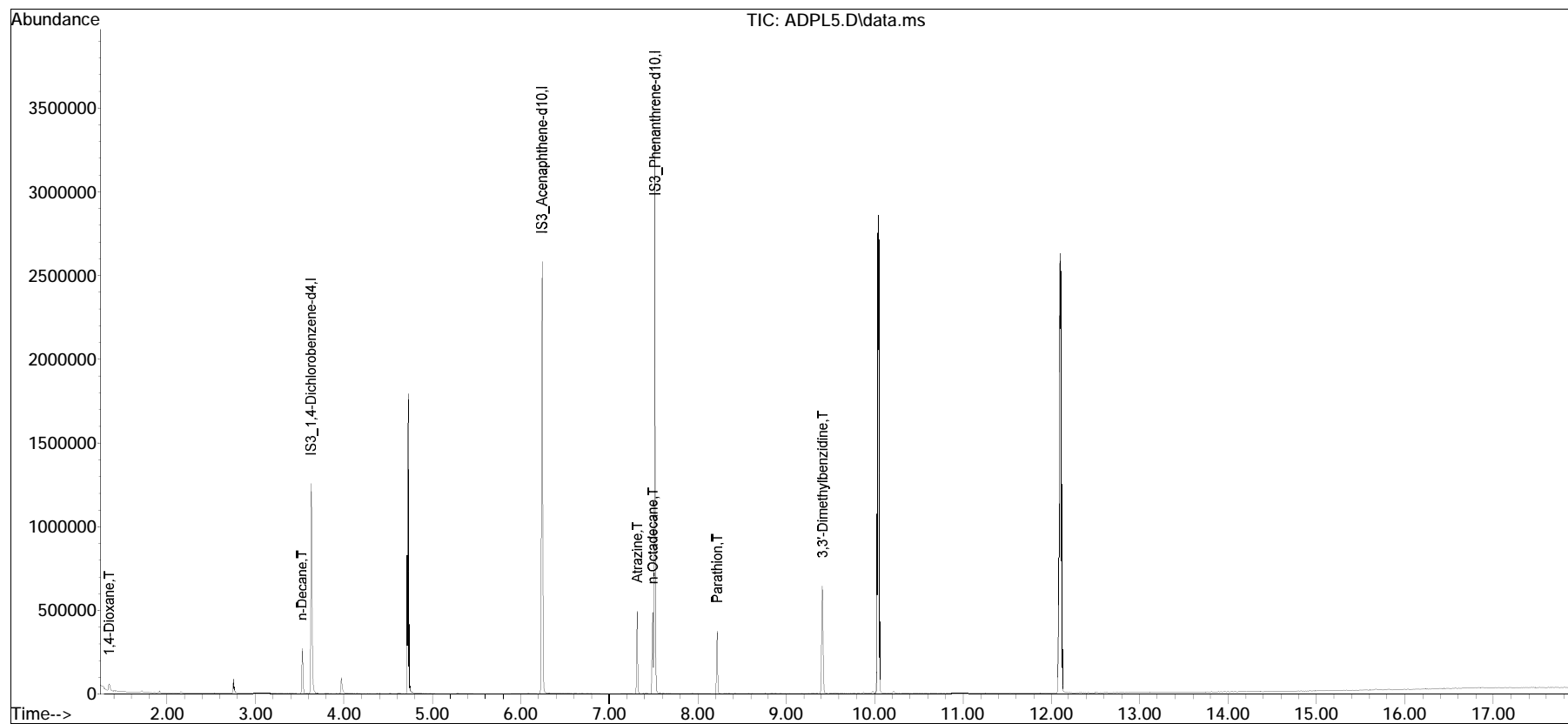
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : ADPL5.D
Acq On : 21 Jul 2023 10:25 am
Operator : JULIET: jg
Sample : IL26,32,,ADPL10 Lot# 10059
Misc : WG1806439,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 21 13:53:47 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 13:46:56 2023
Response via : Initial Calibration

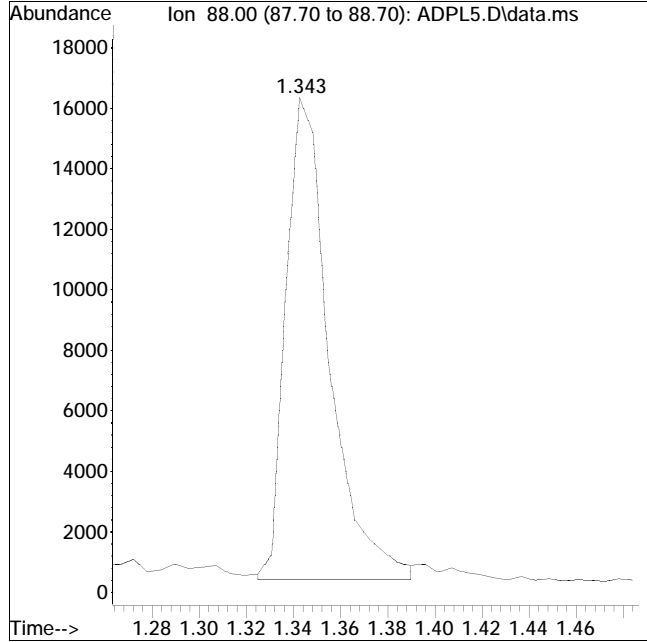
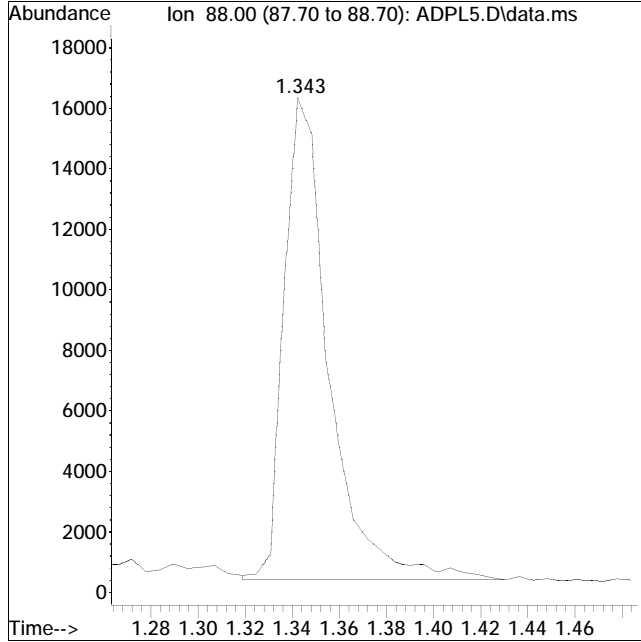
Sub List : ADPical_REV2 - ADP sublistcal\ADPL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ADPL5.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 10:25 am Instrument : Juliet
Sample : IL26,32,,ADPL10 Lot# 10059 Quant Date : 7/21/2023 1:48 pm

Compound #33: 1,4-Dioxane



Original Peak Response = 21049

Manual Peak Response = 20556 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ADPL4.D
 Acq On : 21 Jul 2023 10:49 am
 Operator : JULIET: jg
 Sample : IL27,32,,ADPL5 Lot# 10060
 Misc : WG1806439,,
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 21 13:52:17 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:46:56 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ADPL7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.631	152	208882	40.000	ug/ml	0.00
Standard Area 1 = 252893			Recovery	=	82.60%	
86) IS3_Acenaphthene-d10	6.242	164	488532	40.000	ug/ml	0.00
Standard Area 1 = 595414			Recovery	=	82.05%	
100) IS3_Phenanthrene-d10	7.519	188	1124977	40.000	ug/ml	0.00
Standard Area 1 = 1311694			Recovery	=	85.77%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.343	88	9499M2	5.011	ug/ml	
34) n-Decane	3.525	57	21600	5.023	ug/ml	93
87) Atrazine	7.319	200	26643	5.071	ug/ml	96
101) n-Octadecane	7.495	57	37870	5.046	ug/ml	95
102) Parathion	8.219	109	13316	4.214	ug/ml	91
103) 3,3'-Dimethylbenzidine	9.413	212	111129	4.757	ug/ml	97

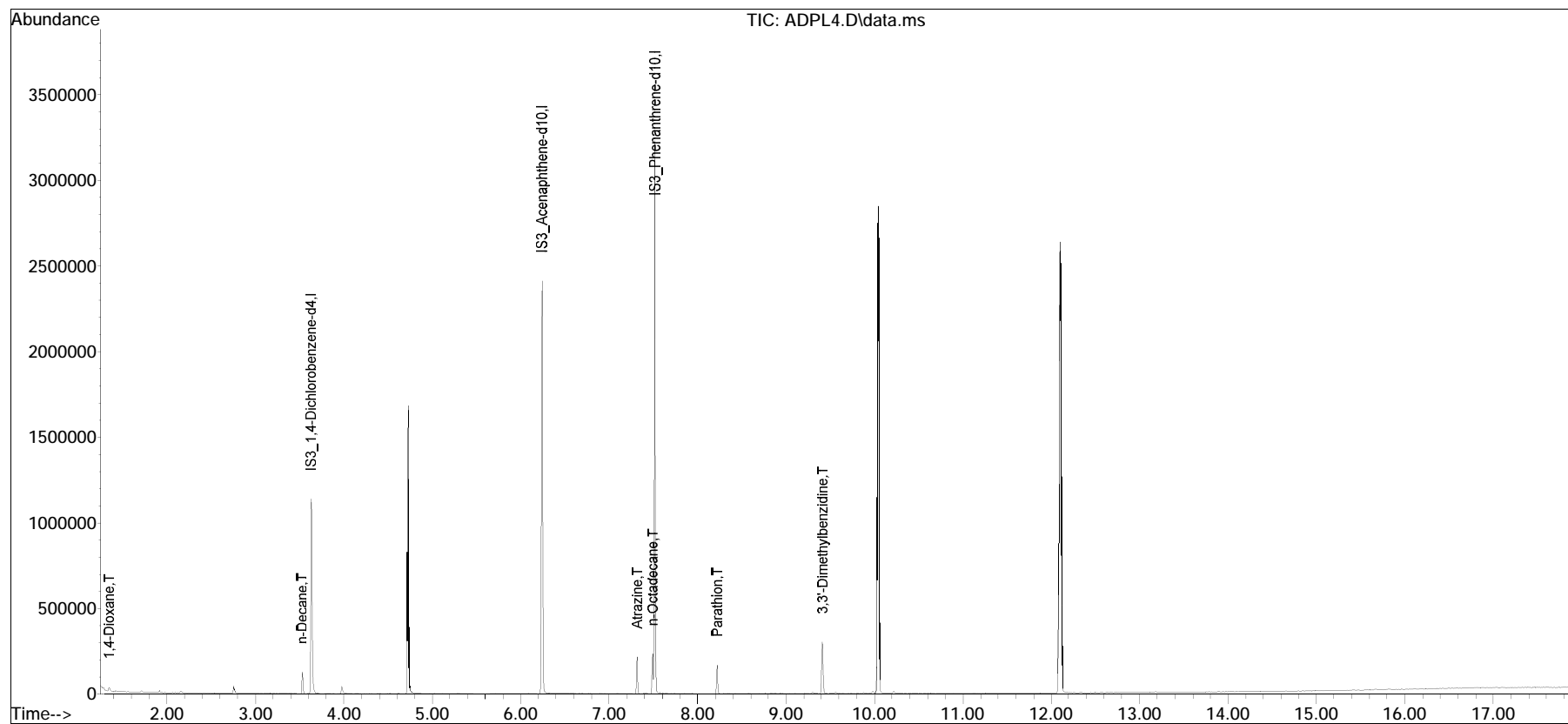
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : ADPL4.D
Acq On : 21 Jul 2023 10:49 am
Operator : JULIET: jg
Sample : IL27,32,,ADPL5 Lot# 10060
Misc : WG1806439,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 21 13:52:17 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 13:46:56 2023
Response via : Initial Calibration

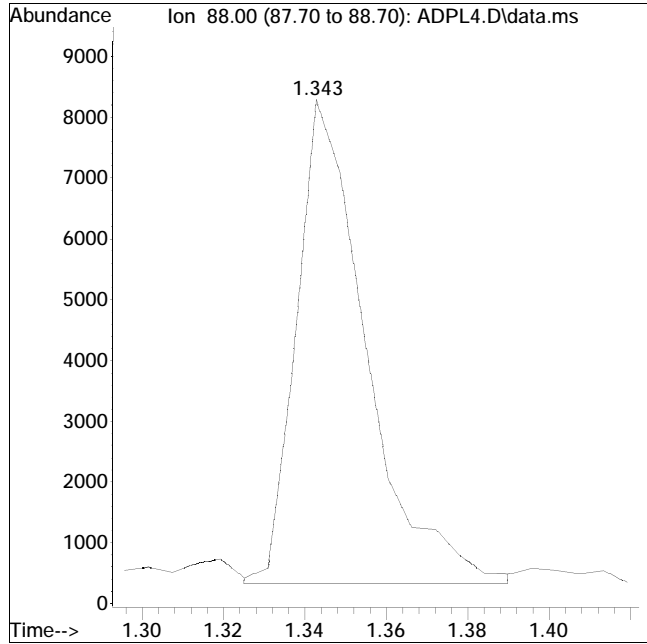
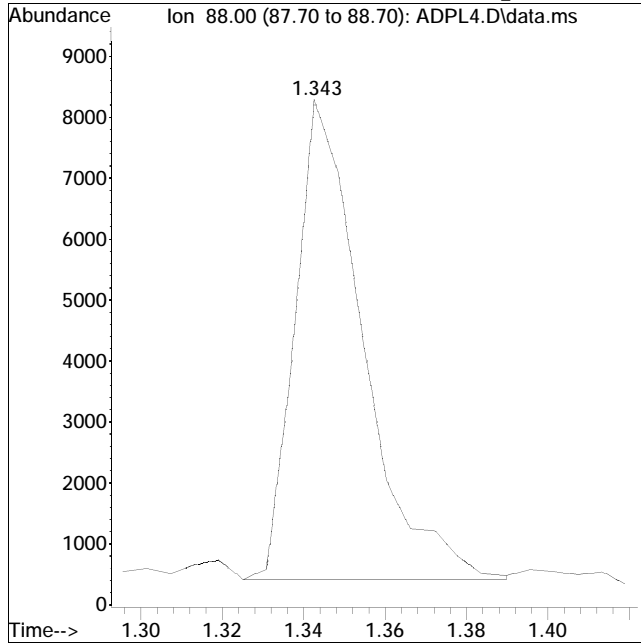
Sub List : ADPical_REV2 - ADP sublistcal\ADPL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ADPL4.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 10:49 am Instrument : Juliet
Sample : IL27,32,,ADPL5 Lot# 10060 Quant Date : 7/21/2023 1:48 pm

Compound #33: 1,4-Dioxane



Original Peak Response = 9122

Manual Peak Response = 9499 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ADPL3.D
 Acq On : 21 Jul 2023 11:13 am
 Operator : JULIET: jg
 Sample : IL28,32,,ADPL3 Lot# 10061
 Misc : WG1806439,,
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 21 13:51:38 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:46:56 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ADPL7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.631	152	243399	40.000	ug/ml	0.00
Standard Area 1 = 252893			Recovery	=	96.25%	
86) IS3_Acenaphthene-d10	6.242	164	568860	40.000	ug/ml	0.00
Standard Area 1 = 595414			Recovery	=	95.54%	
100) IS3_Phenanthrene-d10	7.519	188	1292176	40.000	ug/ml	0.00
Standard Area 1 = 1311694			Recovery	=	98.51%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.349	88	6323M2	2.863	ug/ml	
34) n-Decane	3.525	57	15466	3.086	ug/ml	95
87) Atrazine	7.319	200	18303	2.992	ug/ml	96
101) n-Octadecane	7.495	57	26315	3.053	ug/ml	96
102) Parathion	8.219	109	9382	2.585	ug/ml	95
103) 3,3'-Dimethylbenzidine	9.413	212	68676	2.559	ug/ml	96

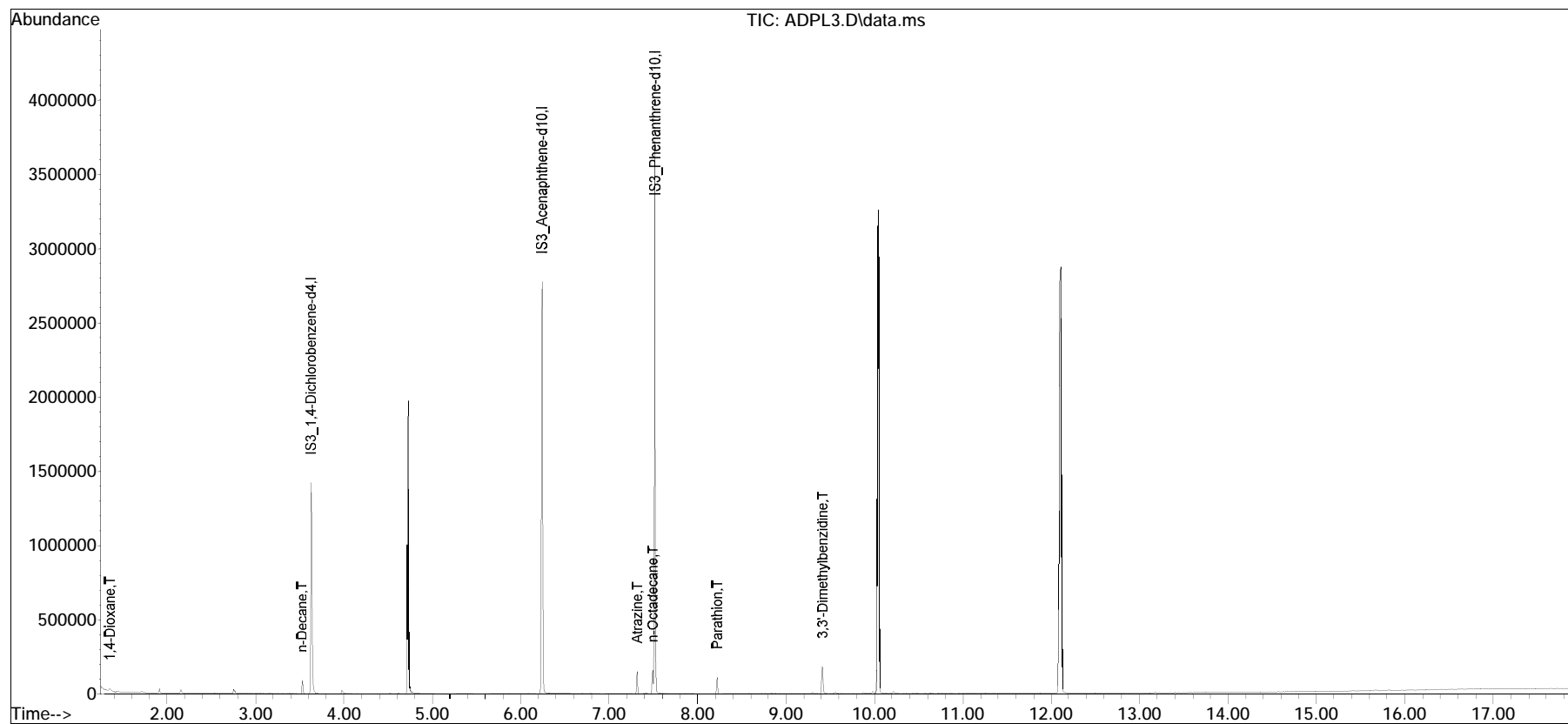
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : ADPL3.D
Acq On : 21 Jul 2023 11:13 am
Operator : JULIET: jg
Sample : IL28,32,,ADPL3 Lot# 10061
Misc : WG1806439,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 21 13:51:38 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 13:46:56 2023
Response via : Initial Calibration

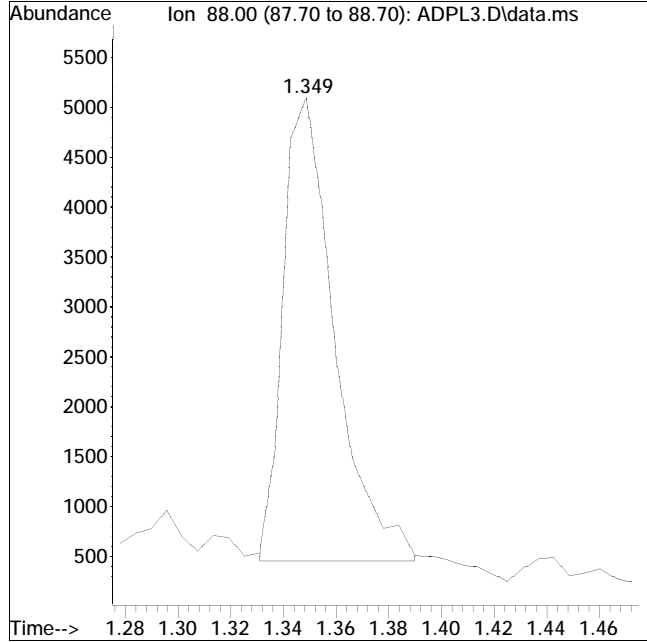
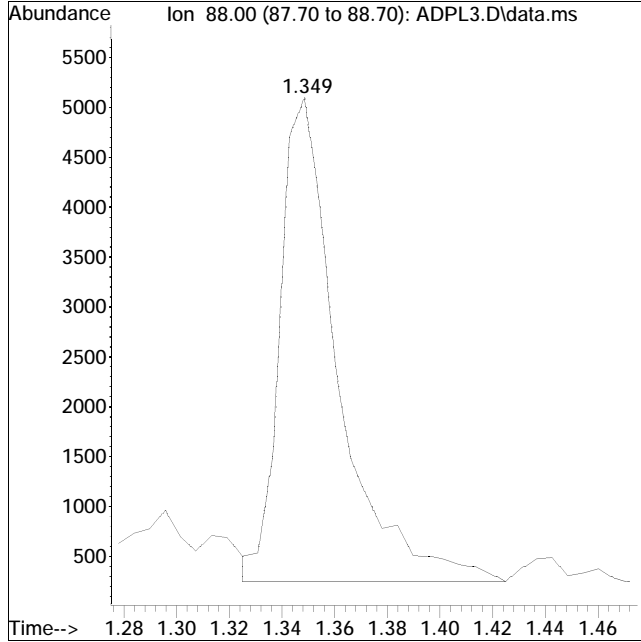
Sub List : ADPical_REV2 - ADP sublistcal\ADPL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ADPL3.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 11:13 am Instrument : Juliet
Sample : IL28,32,,ADPL3 Lot# 10061 Quant Date : 7/21/2023 1:48 pm

Compound #33: 1,4-Dioxane



Original Peak Response = 7433

Manual Peak Response = 6323 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ADPL2.D
 Acq On : 21 Jul 2023 11:37 am
 Operator : JULIET: jg
 Sample : IL29,32,,ADPL2 Lot# 10062
 Misc : WG1806439,,
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 21 14:15:01 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:46:56 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ADPL7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.631	152	260384	40.000	ug/ml	0.00
Standard Area 1 = 252893			Recovery	=	102.96%	
86) IS3_Acenaphthene-d10	6.242	164	605851	40.000	ug/ml	0.00
Standard Area 1 = 595414			Recovery	=	101.75%	
100) IS3_Phenanthrene-d10	7.519	188	1372760	40.000	ug/ml	0.00
Standard Area 1 = 1311694			Recovery	=	104.66%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.349	88	3148M6	1.332	ug/ml	
34) n-Decane	3.525	57	8853	1.651	ug/ml	94
87) Atrazine	7.319	200	10524	1.615	ug/ml	99
101) n-Octadecane	7.495	57	14704	1.606	ug/ml	92
102) Parathion	8.219	109	5154	1.337	ug/ml	99
103) 3,3'-Dimethylbenzidine	9.413	212	36539	1.282	ug/ml	97

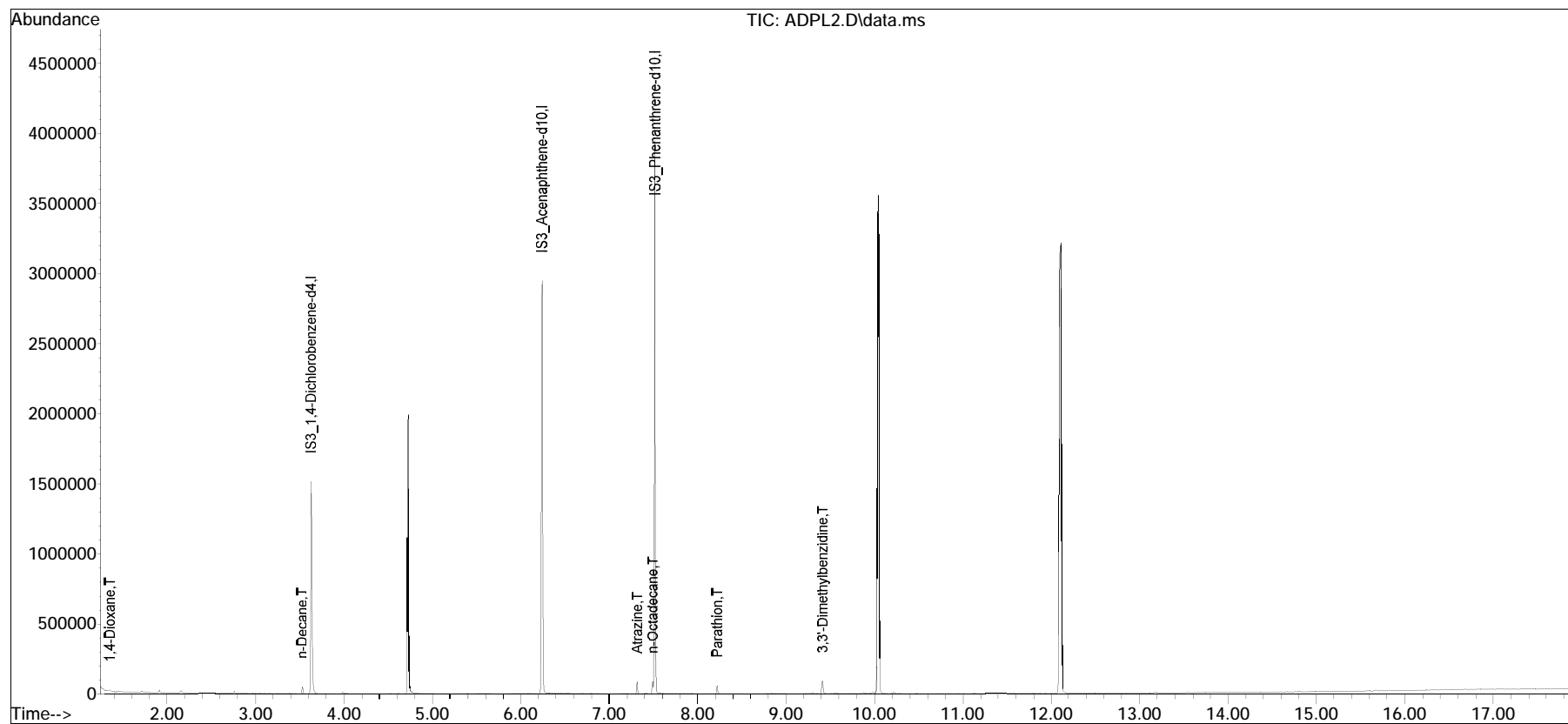
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : ADPL2.D
Acq On : 21 Jul 2023 11:37 am
Operator : JULIET: jg
Sample : IL29,32,,ADPL2 Lot# 10062
Misc : WG1806439,,
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 21 14:15:01 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 13:46:56 2023
Response via : Initial Calibration

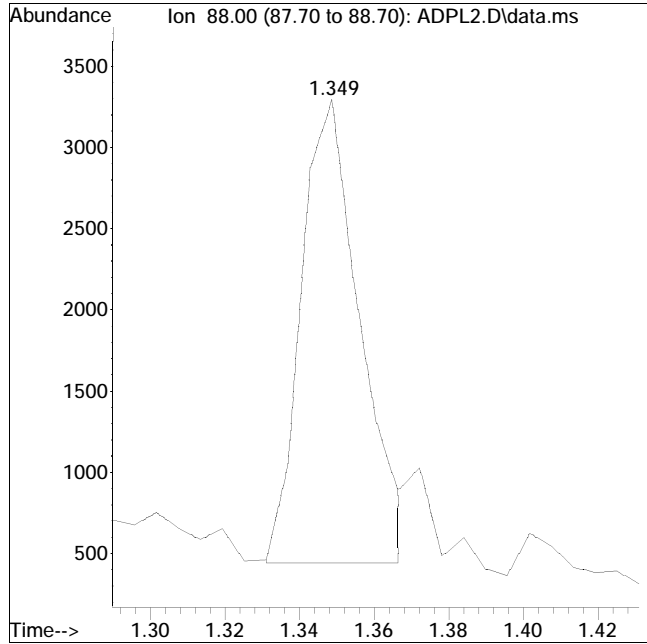
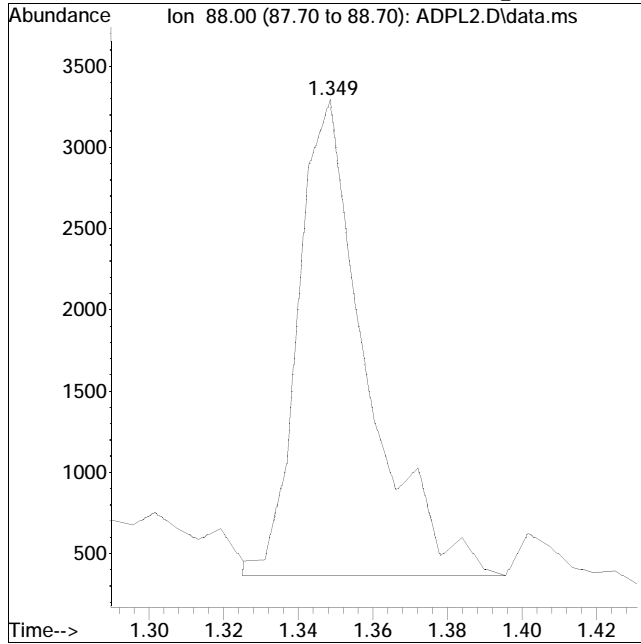
Sub List : ADPical_REV2 - ADP sublistcal\ADPL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ADPL2.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 11:37 am Instrument : Juliet
Sample : IL29,32,,ADPL2 Lot# 10062 Quant Date : 7/21/2023 1:47 pm

Compound #33: 1,4-Dioxane



Original Peak Response = 3712

Manual Peak Response = 3148 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ADPL1.D
 Acq On : 21 Jul 2023 12:01 pm
 Operator : JULIET: jg
 Sample : IL30,32,,ADPL1 Lot# 10063
 Misc : WG1806439,,
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 21 14:26:27 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 13:46:56 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ADPL7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.631	152	214489	40.000	ug/ml	0.00
Standard Area 1 = 252893			Recovery	=	84.81%	
86) IS3_Acenaphthene-d10	6.242	164	503774	40.000	ug/ml	0.00
Standard Area 1 = 595414			Recovery	=	84.61%	
100) IS3_Phenanthrene-d10	7.519	188	1157564	40.000	ug/ml	0.00
Standard Area 1 = 1311694			Recovery	=	88.25%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.349	88	1355M6	0.696	ug/ml	
34) n-Decane	3.525	57	2162	0.490	ug/ml#	80
87) Atrazine	7.319	200	2475	0.457	ug/ml#	74
101) n-Octadecane	7.495	57	4088	0.529	ug/ml#	86
102) Parathion	8.219	109	1193	0.367	ug/ml#	70
103) 3,3'-Dimethylbenzidine	9.413	212	4651	0.193	ug/ml#	59

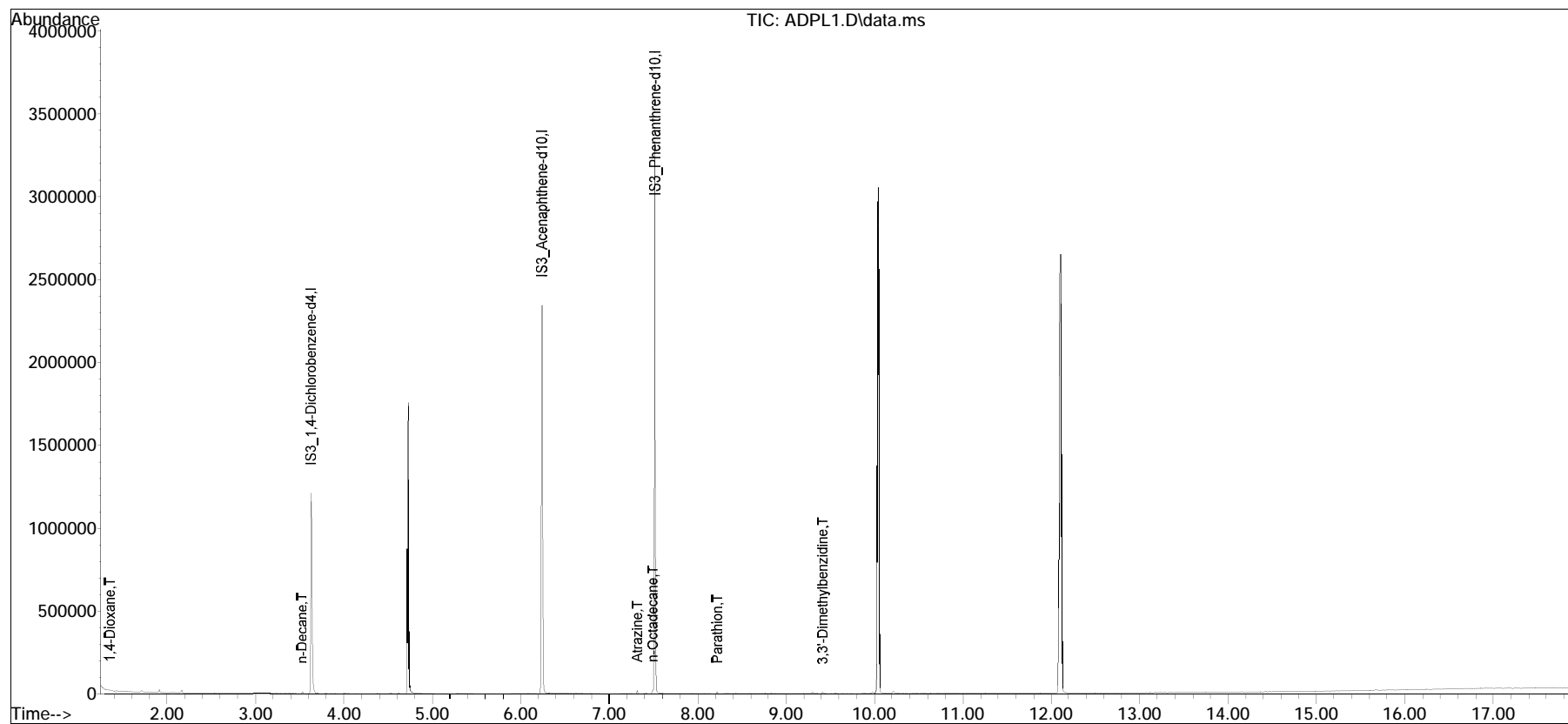
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : ADPL1.D
Acq On : 21 Jul 2023 12:01 pm
Operator : JULIET: jg
Sample : IL30,32,,ADPL1 Lot# 10063
Misc : WG1806439,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 21 14:26:27 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 13:46:56 2023
Response via : Initial Calibration

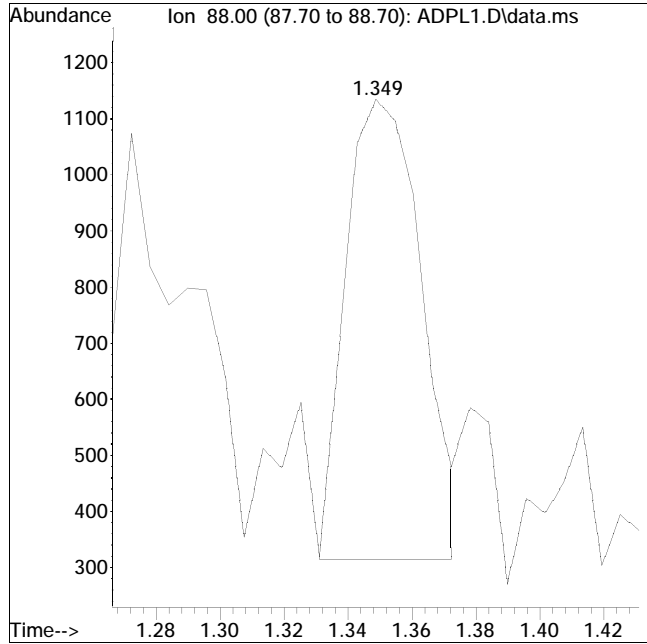
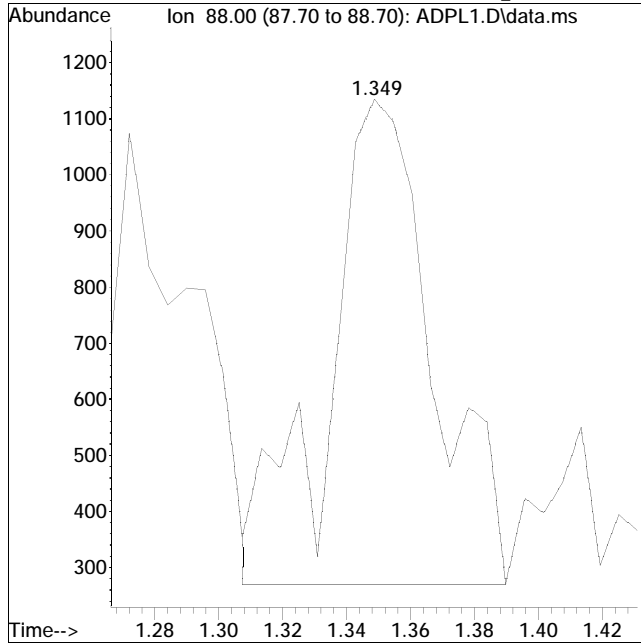
Sub List : ADPical_REV2 - ADP sublistcal\ADPL7.D•



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ADPL1.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 12:01 pm Instrument : Juliet
Sample : IL30,32,,ADPL1 Lot# 10063 Quant Date : 7/21/2023 1:47 pm

Compound #33: 1,4-Dioxane



Original Peak Response = 1963

Manual Peak Response = 1355 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\Juliet\230720ical\
 Data File : ADPICV.D
 Acq On : 21 Jul 2023 12:25 pm
 Operator : JULIET: jg
 Sample : CQICV3,32,,ADPICV Lot# 10064
 Misc : WG1806439,,
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jul 21 21:45:59 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 21:43:24 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32 I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
33 T	1,4-Dioxane	0.377	0.366	2.9	95	0.00
34 T	n-Decane	0.824	0.829	-0.6	94	0.00
86 I	IS3_Acenaphthene-d10	1.000	1.000	0.0	92	0.00
87 T	Atrazine	0.430	0.433	-0.7	89	0.00
100 I	IS3_Phenanthrene-d10	1.000	1.000	0.0	92	0.00
101 T	n-Octadecane	0.267	0.267	0.0	90	0.00
102 T	Parathion	* 50.000	45.955	8.1	89	0.00
103 T	3,3'-Dimethylbenzidine	0.868	0.903	-4.0	89	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
 Data File : ADPICV.D
 Acq On : 21 Jul 2023 12:25 pm
 Operator : JULIET: jg
 Sample : CQICV3,32,,ADPICV Lot# 10064
 Misc : WG1806439,,
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jul 21 21:45:59 2023
 Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jul 21 21:43:24 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230720ical\ADPL7.D
 Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.631	152	237323	40.000	ug/ml	0.00
Standard Area 1 = 252893			Recovery	=	93.84%	
86) IS3_Acenaphthene-d10	6.243	164	550650	40.000	ug/ml	0.00
Standard Area 1 = 595414			Recovery	=	92.48%	
100) IS3_Phenanthrene-d10	7.519	188	1209496	40.000	ug/ml	0.00
Standard Area 1 = 1311694			Recovery	=	92.21%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.343	88	108667	48.598	ug/ml	96
34) n-Decane	3.525	57	246025	50.354	ug/ml	96
87) Atrazine	7.325	200	298197	50.357	ug/ml	98
101) n-Octadecane	7.495	57	404404	50.123	ug/ml	95
102) Parathion	8.219	109	179922	45.955	ug/ml	95
103) 3,3'-Dimethylbenzidine	9.413	212	1365171	52.018	ug/ml	98

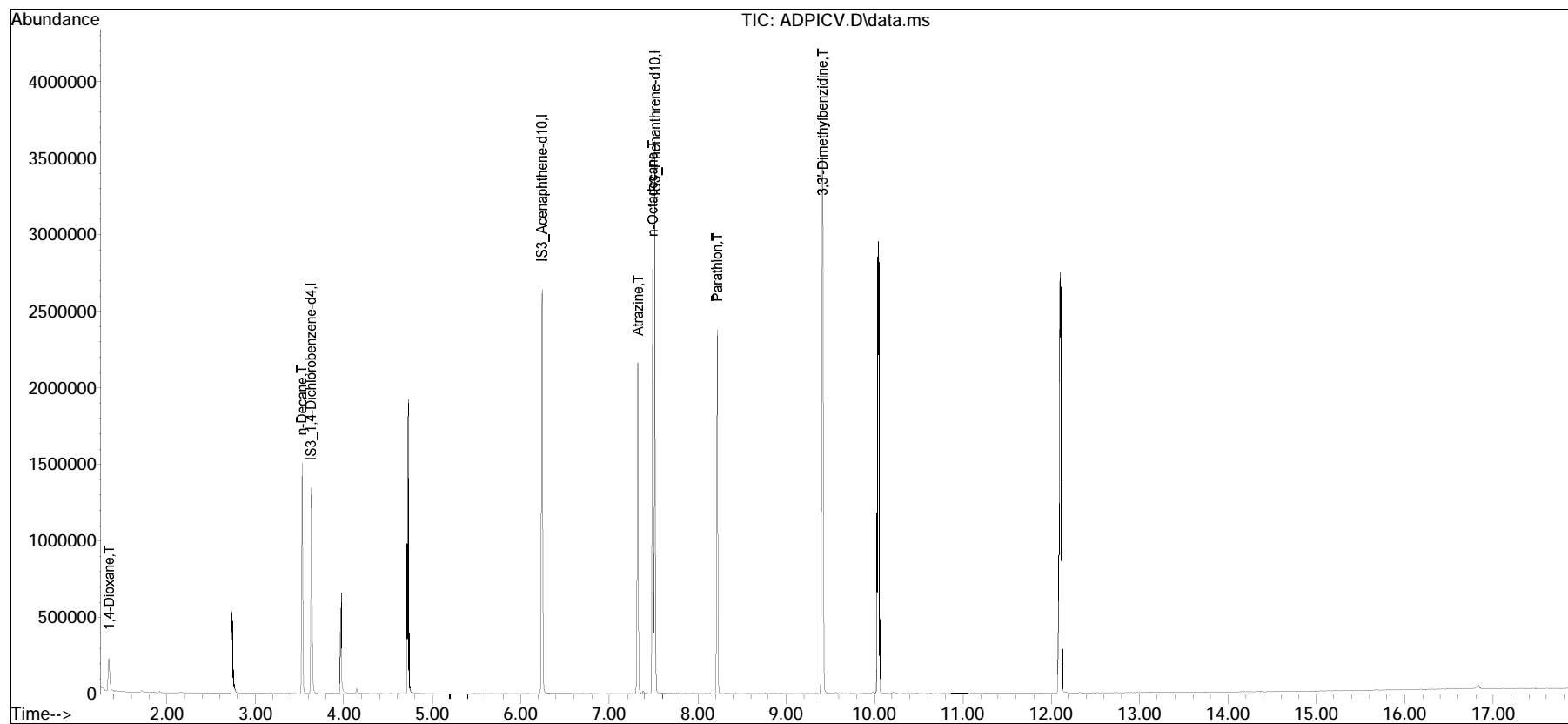
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

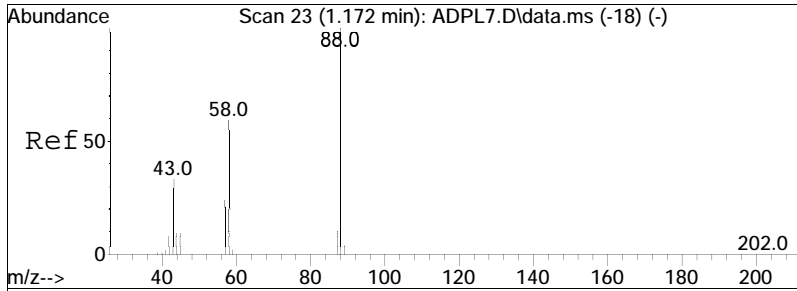
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230720ical\
Data File : ADPICV.D
Acq On : 21 Jul 2023 12:25 pm
Operator : JULIET: jg
Sample : CQICV3,32,,ADPICV Lot# 10064
Misc : WG1806439,,
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jul 21 21:45:59 2023
Quant Method : I:\8270\Juliet\230720ical\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jul 21 21:43:24 2023
Response via : Initial Calibration

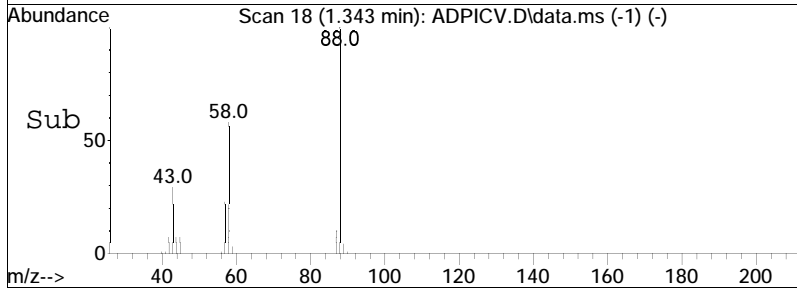
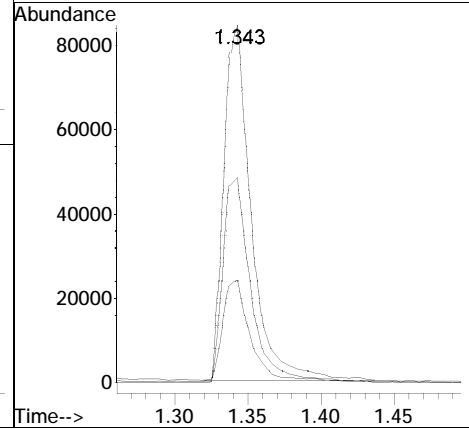
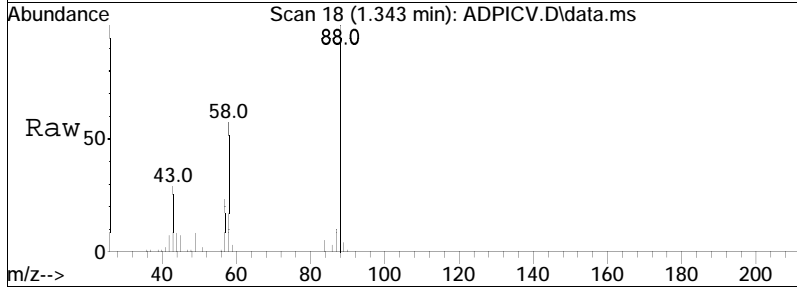
Sub List : ADPical_REV2 - ADP sublistcal\ADPL7.D•

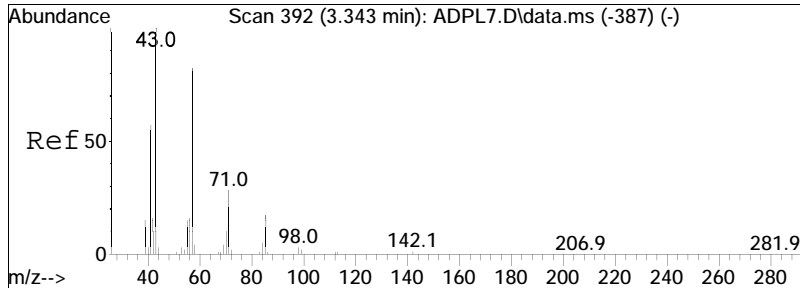




#33
 1,4-Dioxane
 Concen: 48.60 ug/ml
 RT: 1.343 min Scan# 18
 Delta R.T. 0.006 min
 Lab File: ADPICV.D
 Acq: 21 Jul 2023 12:25 pm

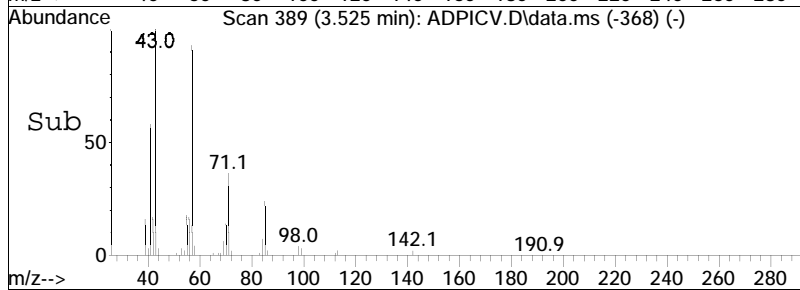
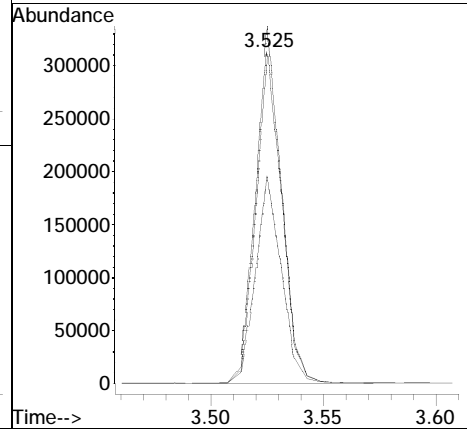
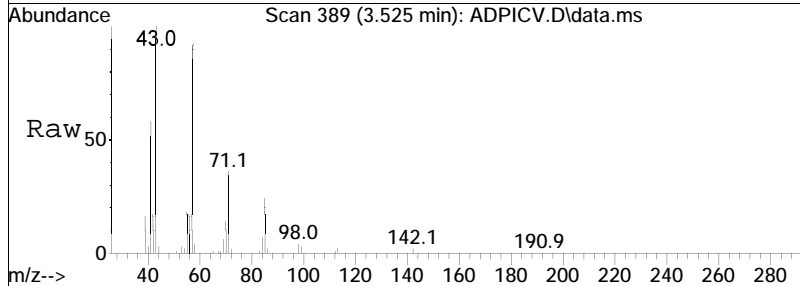
Tgt Ion	Ratio	Lower	Upper
88	100		
58	59.5	44.8	67.2
43	28.8	22.4	33.6

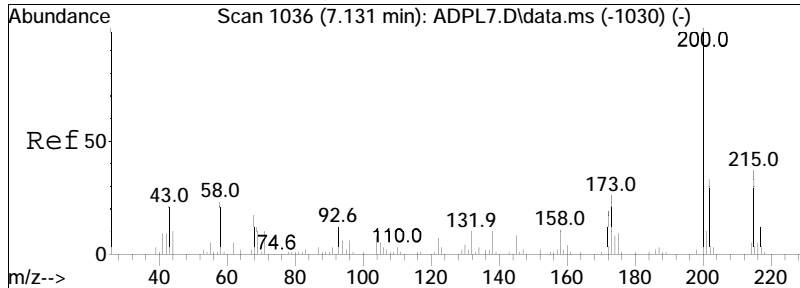




#34
 n-Decane
 Concen: 50.35 ug/ml
 RT: 3.525 min Scan# 389
 Delta R.T. 0.000 min
 Lab File: ADPICV.D
 Acq: 21 Jul 2023 12:25 pm

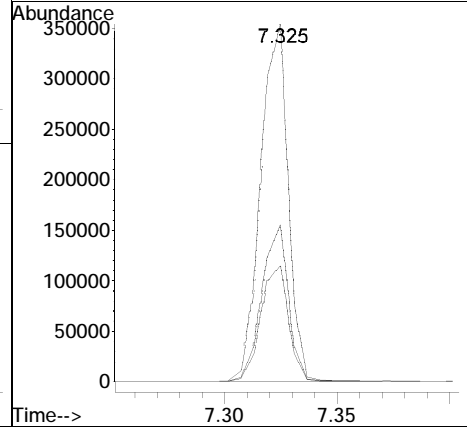
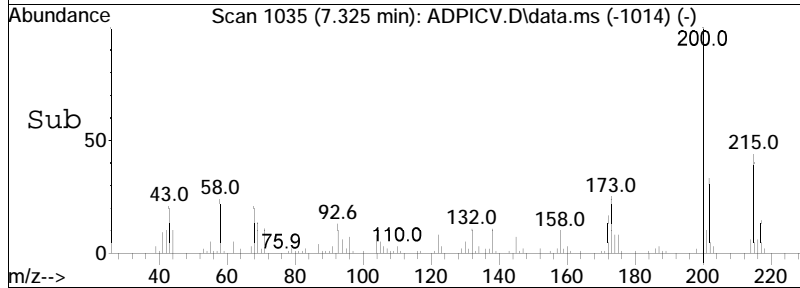
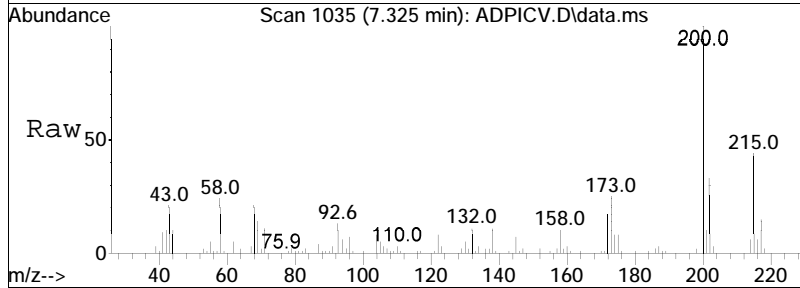
Tgt Ion	Resp	Lower	Upper
57	246025		
57	100		
43	108.2	87.7	131.5
41	63.3	46.0	69.0

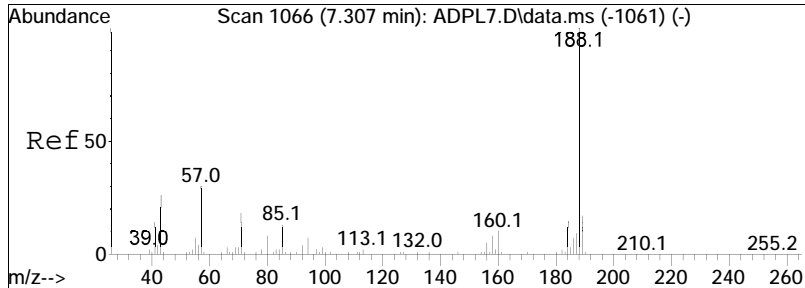




#87
 Atrazine
 Concen: 50.36 ug/ml
 RT: 7.325 min Scan# 1035
 Delta R.T. -0.000 min
 Lab File: ADPICV.D
 Acq: 21 Jul 2023 12:25 pm

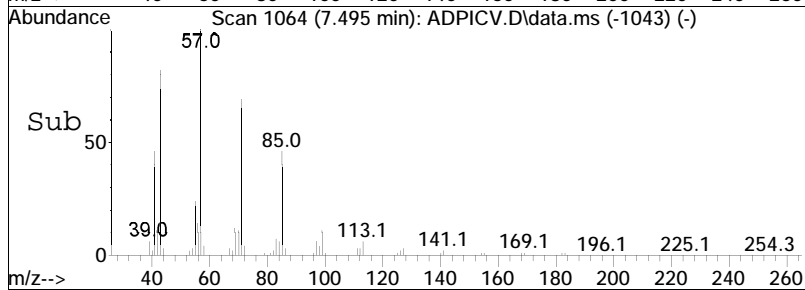
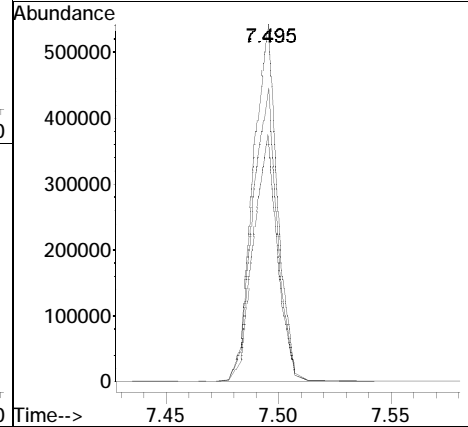
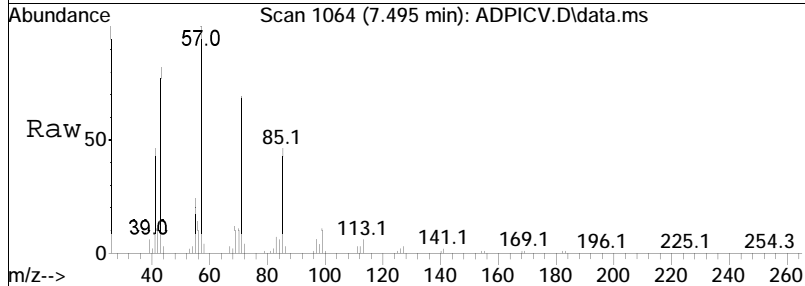
Tgt Ion	Ratio	Lower	Upper
200	100		
202	32.8	26.5	39.7
215	42.5	35.8	53.6

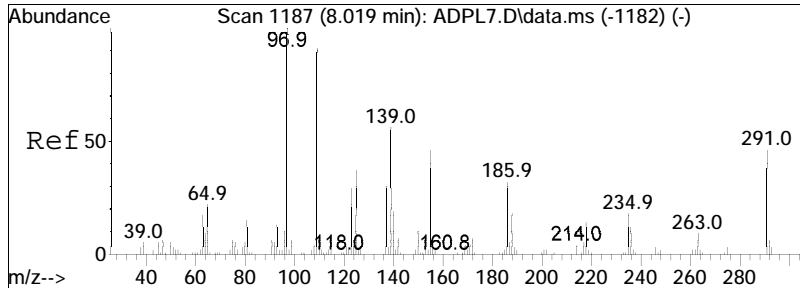




#101
 n-Octadecane
 Concen: 50.12 ug/ml
 RT: 7.495 min Scan# 1064
 Delta R.T. 0.000 min
 Lab File: ADPICV.D
 Acq: 21 Jul 2023 12:25 pm

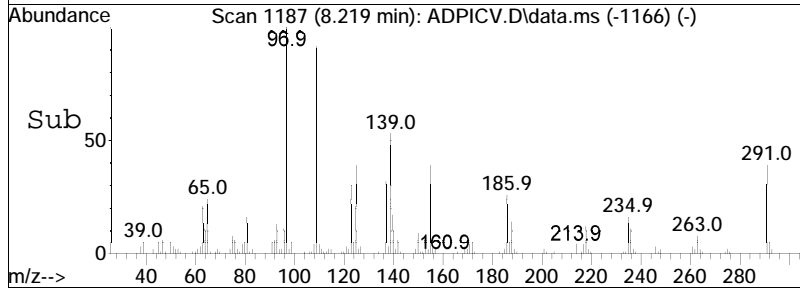
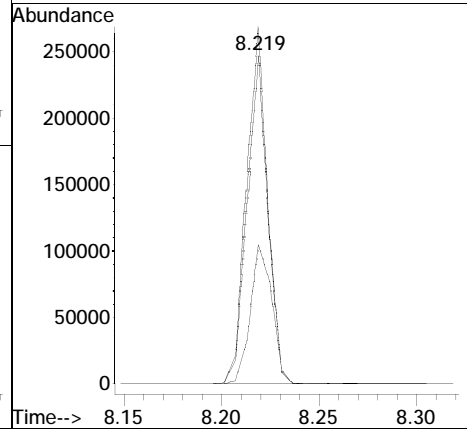
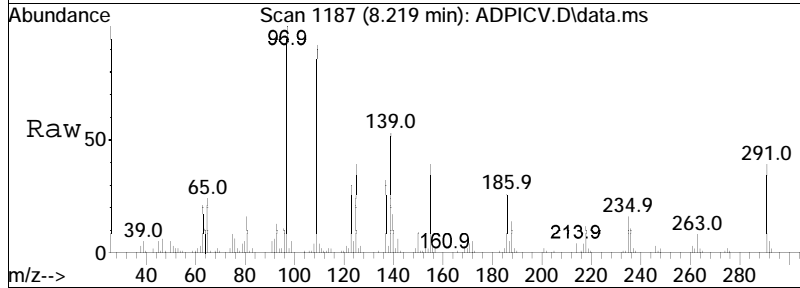
Tgt Ion:	Resp:	Lower	Upper
57	100		
43	82.9	64.6	96.8
71	68.1	49.9	74.9

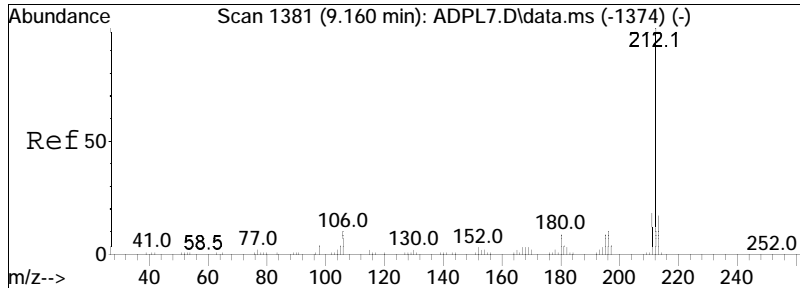




#102
 Parathion
 Concen: 45.95 ug/ml
 RT: 8.219 min Scan# 1187
 Delta R.T. -0.000 min
 Lab File: ADPICV.D
 Acq: 21 Jul 2023 12:25 pm

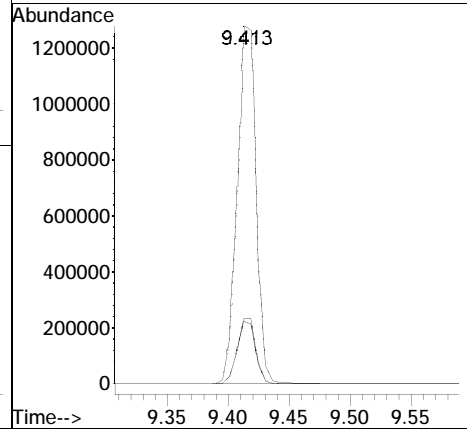
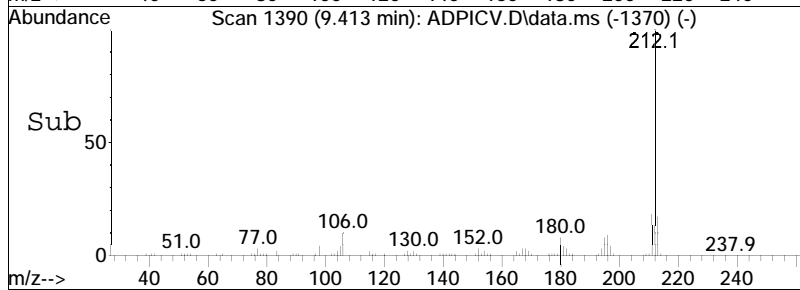
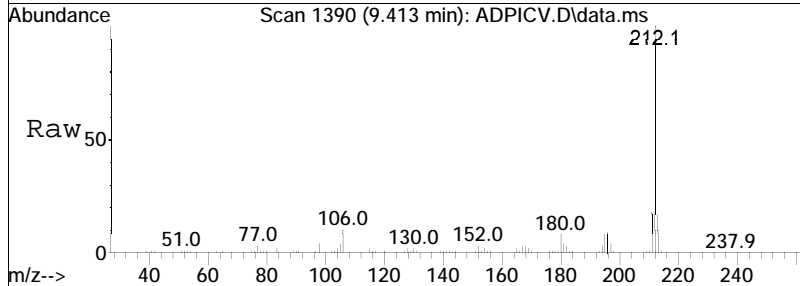
Tgt Ion	Resp	Lower	Upper
109	179922		
109	100		
97	109.9	83.4	125.2
291	44.8	34.2	51.4





#103
 3,3'-Dimethylbenzidine
 Concen: 52.02 ug/ml
 RT: 9.413 min Scan# 1390
 Delta R.T. -0.006 min
 Lab File: ADPICV.D
 Acq: 21 Jul 2023 12:25 pm

Tgt Ion	Ratio	Lower	Upper
212	100		
211	18.0	15.3	22.9
213	17.1	14.3	21.5



Manual Integration Report

Data Path : I:\8270\Juliet\230720ical\QMethod : FS230721Juliet.m
Data File : ADPICV.D Operator : JULIET: jg
Date Inj'd : 7/21/2023 12:25 pm Instrument : Juliet
Sample : CQICV3,32,,ADPICV Lot# 100Quant Date : 7/21/2023 9:43 pm

There are no manual integrations or false positives in this file.

Method Path : I:\8270\Juliet\230720ical\
Method File : FS230721Juliet.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Jul 21 21:42:38 2023

COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
43 T Hexachlorocyclopentadiene	L	ug/ml	50.0	46.808	-6.4	5.00	6.354	27.1
66 T 2,4-Dinitrophenol	L	ug/ml	50.0	47.947	-4.1	5.00	5.690	13.8
82 T Pentachlorophenol	L	ug/ml	50.0	48.910	-2.2	3.00	3.389	13.0
102 T Parathion	L	ug/ml	50.0	47.702	-4.6	5.00	5.558	11.2

Calibration Correlation Report

COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
43 T Hexachlorocyclopentadiene	Linear	0.996693	0.000000	0.218917	-0.0241648
66 T 2,4-Dinitrophenol	Linear	0.999093	0.000000	0.209427	-0.0186359
82 T Pentachlorophenol	Linear	0.999281	0.000000	0.291949	-0.0123766
102 T Parathion	Linear	0.999008	0.000000	0.135577	-0.00700139

Continuing Calibration

Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : JULIET
 Lab File ID : ABN0801N
 Sample No : WG1810591-3
 Channel :

Lab Number : L2343170
 Project Number : 2230119
 Calibration Date : 08/01/23 23:21
 Init. Calib. Date(s) : 07/20/23 07/21/23
 Init. Calib. Times : 23:20 12:01

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	90	0
n-Nitrosodimethylamine	0.61	0.648	-	-6.2	20	94	0
Pyridine	1.085	1.167	-	-7.6	20	91	0
2-Fluorophenol	1.008	1.169	-	-16	20	101	0
Aniline	1.656	1.735	-	-4.8	20	92	0
2-Chlorophenol	1.249	1.34	-	-7.3	20	98	0
Phenol-d6	1.291	1.384	-	-7.2	20	93	0
Phenol	1.442	1.364	-	5.4	20	83	0
Bis(2-chloroethyl)ether	0.96	0.941	-	2	20	90	0
1,3-Dichlorobenzene	1.43	1.546	-	-8.1	20	100	0
1,4-Dichlorobenzene	1.437	1.568	-	-9.1	20	103	0
1,2-Dichlorobenzene	1.388	1.513	-	-9	20	102	0
Benzyl alcohol	0.897	0.899	-	-0.2	20	89	0
Bis(2-chloroisopropyl)ethe	1.171	1.031	-	12	20	81	0
2-Methylphenol	1.018	1.046	-	-2.8	20	93	0
Hexachloroethane	0.491	0.528	-	-7.5	20	101	0
n-Nitrosodi-n-propylamine	0.755	0.731	-	3.2	20	88	0
3-Methylphenol/4-Methylphe	1.076	1.1	-	-2.2	20	92	0
Nitrobenzene-d5	1.16	1.153	-	0.6	20	90	0
Nitrobenzene	1.125	1.099	-	2.3	20	91	0
Isophorone	2.148	2.023	-	5.8	20	87	0
2-Nitrophenol	0.682	0.742	-	-8.8	20	97	0
2,4-Dimethylphenol	1.167	1.192	-	-2.1	20	92	0
Bis(2-chloroethoxy)methane	1.262	1.207	-	4.4	20	90	0
2,4-Dichlorophenol	1.157	1.257	-	-8.6	20	98	0
1,2,4-Trichlorobenzene	1.294	1.388	-	-7.3	20	100	0
IS1_Naphthalene-d8	1	1	-	0	20	87	0
Naphthalene	0.985	1.061	-	-7.7	20	96	0
Benzoic Acid	0.234	0.254	-	-8.5	20	90	0
4-Chloroaniline	0.1	0.105	-	-5	20	88	0
Hexachlorobutadiene	0.201	0.24	-	-19.4	20	104	0
p-Chloro-m-cresol	0.282	0.313	-	-11	20	93	0
2-Methylnaphthalene	0.665	0.748	-	-12.5	20	96	0
1-Methylnaphthalene	0.216	0.226	-	-4.6	20	92	0
Hexachlorocyclopentadiene	50	46.19	-	7.6	20	85	0
2,4,6-Trichlorophenol	0.243	0.283	-	-16.5	20	99	0
2,4,5-Trichlorophenol	0.265	0.296	-	-11.7	20	94	0
2-Fluorobiphenyl	0.841	0.912	-	-8.4	20	96	0
2-Chloronaphthalene	0.71	0.764	-	-7.6	20	96	0
2-Nitroaniline	0.236	0.259	-	-9.7	20	95	0
1,4-Dinitrobenzene	0.106	0.12	-	-13.2	20	93	0
1,3-Dinitrobenzene	0.122	0.131	-	-7.4	20	92	0
Dimethyl phthalate	0.871	0.934	-	-7.2	20	97	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : JULIET
 Lab File ID : ABN0801N
 Sample No : WG1810591-3
 Channel :

Lab Number : L2343170
 Project Number : 2230119
 Calibration Date : 08/01/23 23:21
 Init. Calib. Date(s) : 07/20/23 07/21/23
 Init. Calib. Times : 23:20 12:01

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.161	1.263	-	-8.8	20	97	0
2,6-Dinitrotoluene	0.181	0.2	-	-10.5	20	96	0
1,2-Dinitrobenzene	0.074	0.077	-	-4.1	20	95	0
IS1_Acenaphthene-d10	1	1	-	0	20	86	0
3-Nitroaniline	0.35	0.39	-	-11.4	20	93	0
Acenaphthene	1.101	1.12	-	-1.7	20	92	0
2,4-Dinitrophenol	50	51.115	-	-2.2	20	92	0
Dibenzofuran	1.707	1.887	-	-10.5	20	97	0
2,4-Dinitrotoluene	0.419	0.455	-	-8.6	20	93	0
4-Nitrophenol	0.213	0.206	-	3.3	20	78	0
2,3,5,6-Tetrachlorophenol	0.356	0.409	-	-14.9	20	93	0
2,3,4,6-Tetrachlorophenol	0.373	0.437	-	-17.2	20	102	0
Diethyl phthalate	1.428	1.553	-	-8.8	20	95	0
Fluorene	1.383	1.487	-	-7.5	20	93	0
4-Chlorophenyl phenyl ethe	0.67	0.738	-	-10.1	20	94	0
4-Nitroaniline	0.328	0.363	-	-10.7	20	94	0
4,6-Dinitro-o-cresol	0.249	0.303	-	-21.7*	20	99	0
NDPA/DPA	1.177	1.274	-	-8.2	20	96	0
Azobenzene	1.063	1.068	-	-0.5	20	87	0
2,4,6-Tribromophenol	0.23	0.282	-	-22.6*	20	105	0
4-Bromophenyl phenyl ether	0.438	0.505	-	-15.3	20	99	0
Hexachlorobenzene	0.508	0.579	-	-14	20	101	0
Pentachlorophenol	50	54.378	-	-8.8	20	96	0
IS1_Phenanthrene-d10	1	1	-	0	20	85	0
Phenanthrene	0.996	1.054	-	-5.8	20	95	0
Anthracene	0.998	1.07	-	-7.2	20	96	0
Carbazole	0.959	1.002	-	-4.5	20	94	0
Di-n-butylphthalate	1.167	1.257	-	-7.7	20	94	0
Fluoranthene	1.296	1.384	-	-6.8	20	94	0
Benzidine	0.855	0.911	-	-6.5	20	96	0
Pyrene	1.335	1.371	-	-2.7	20	93	0
4-Terphenyl-d14	0.974	1.033	-	-6.1	20	96	0
Butyl benzyl phthalate	0.58	0.617	-	-6.4	20	91	0
IS1_Chrysene-d12	1	1	-	0	20	85	0
Benzo(a)anthracene	1.349	1.441	-	-6.8	20	94	0
3,3'-Dichlorobenzidine	0.528	0.575	-	-8.9	20	92	0
Chrysene	1.125	1.21	-	-7.6	20	98	0
Bis(2-ethylhexyl)phthalate	0.75	0.83	-	-10.7	20	93	0
Di-n-octylphthalate	1.406	1.598	-	-13.7	20	91	0
Benzo(b)fluoranthene	1.402	1.546	-	-10.3	20	94	0
Benzo(k)fluoranthene	1.265	1.339	-	-5.8	20	96	0
Benzo(a)pyrene	1.209	1.4	-	-15.8	20	100	0
IS1_Perylene-d12	1	1	-	0	20	86	0

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : JULIET
Lab File ID : ABN0801N
Sample No : WG1810591-3
Channel :

Lab Number : L2343170
Project Number : 2230119
Calibration Date : 08/01/23 23:21
Init. Calib. Date(s) : 07/20/23 07/21/23
Init. Calib. Times : 23:20 12:01

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.059	1.201	-	-13.4	20	97	0
Dibenzo(a,h)anthracene	1.082	1.192	-	-10.2	20	94	0
Benzo(ghi)perylene	1.109	1.235	-	-11.4	20	97	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : JULIET
Lab File ID : AP90801N
Sample No : WG1810591-4
Channel :

Lab Number : L2343170
Project Number : 2230119
Calibration Date : 08/01/23 23:44
Init. Calib. Date(s) : 07/20/23 07/21/23
Init. Calib. Times : 23:20 12:01

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	0
Benzaldehyde	0.709	0.624	-	12	20	98	0
Acetophenone	1.507	1.466	-	2.7	20	97	0
m-Toluidine	1.296	1.168	-	9.9	20	97	0
2-Chloroaniline	1.518	1.482	-	2.4	20	101	0
IS2_Naphthalene-d8	1	1	-	0	20	97	0
a-Terpineol	0.186	0.179	-	3.8	20	91	0
3-Chloroaniline	0.1	0.099	-	1	20	92	0
2,6-Dichlorophenol	0.284	0.309	-	-8.8	20	101	0
1-chloro-2-nitrobenzene	0.129	0.132	-	-2.3	20	99	0
Caprolactam	0.109	0.095	-	12.8	20	86	0
1,2,4,5-Tetrachlorobenzene	0.366	0.404	-	-10.4	20	107	0
Biphenyl	0.815	0.833	-	-2.2	20	100	0
IS2_Acenaphthene-d10	1	1	-	0	20	96	0
Dichloran	0.209	0.241	-	-15.3	20	103	0
Pentachloronitrobenzene	0.19	0.212	-	-11.6	20	102	0
IS2_Phenanthrene-d10	1	1	-	0	20	99	0
Diphenamid	0.492	0.503	-	-2.2	20	99	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : SV109
 Lab File ID : ABN0801N
 Sample No : WG1810592-3
 Channel :

Lab Number : L2343170
 Project Number : 2230119
 Calibration Date : 08/01/23 23:57
 Init. Calib. Date(s) : 05/31/23 06/06/23
 Init. Calib. Times : 20:09 19:30

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	117	0
n-Nitrosodimethylamine	0.738	0.669	-	9.3	20	100	0
Pyridine	1.187	1.15	-	3.1	20	111	0
2-Fluorophenol	1.072	1.157	-	-7.9	20	116	0
Aniline	1.917	1.868	-	2.6	20	110	0
2-Chlorophenol	1.325	1.317	-	0.6	20	112	0
Phenol-d6	1.443	1.424	-	1.3	20	108	0
Phenol	1.553	1.495	-	3.7	20	109	0
Bis(2-chloroethyl)ether	1.245	1.166	-	6.3	20	103	0
1,3-Dichlorobenzene	1.45	1.475	-	-1.7	20	118	0
1,4-Dichlorobenzene	1.484	1.504	-	-1.3	20	118	0
1,2-Dichlorobenzene	1.43	1.441	-	-0.8	20	116	0
Benzyl alcohol	1.107	1.087	-	1.8	20	105	0
Bis(2-chloroisopropyl)ethe	1.645	1.566	-	4.8	20	106	0
2-Methylphenol	1.145	1.167	-	-1.9	20	114	0
Hexachloroethane	0.63	0.607	-	3.7	20	110	0
n-Nitrosodi-n-propylamine	1.014	0.941	-	7.2	20	103	0
3-Methylphenol/4-Methylphe	1.201	1.247	-	-3.8	20	115	0
Nitrobenzene-d5	1.452	1.367	-	5.9	20	103	0
Nitrobenzene	1.428	1.376	-	3.6	20	105	0
Isophorone	2.758	2.491	-	9.7	20	102	0
2-Nitrophenol	0.712	0.753	-	-5.8	20	118	0
2,4-Dimethylphenol	1.327	1.324	-	0.2	20	110	0
Bis(2-chloroethoxy)methane	1.68	1.548	-	7.9	20	104	0
2,4-Dichlorophenol	1.156	1.2	-	-3.8	20	114	0
1,2,4-Trichlorobenzene	1.309	1.292	-	1.3	20	113	0
IS1_Naphthalene-d8	1	1	-	0	20	112	0
Naphthalene	0.998	1.024	-	-2.6	20	113	0
Benzoic Acid	50	50.436	-	-0.9	20	116	0
4-Chloroaniline	0.129	0.129	-	0	20	107	0
Hexachlorobutadiene	0.207	0.207	-	0	20	110	0
p-Chloro-m-cresol	0.311	0.321	-	-3.2	20	110	0
2-Methylnaphthalene	0.663	0.677	-	-2.1	20	110	0
1-Methylnaphthalene	0.254	0.226	-	11	20	98	0
Hexachlorocyclopentadiene	50	40.661	-	18.7	20	95	0
2,4,6-Trichlorophenol	0.217	0.24	-	-10.6	20	118	0
2,4,5-Trichlorophenol	0.241	0.258	-	-7.1	20	113	0
2-Fluorobiphenyl	0.798	0.819	-	-2.6	20	114	0
2-Chloronaphthalene	0.686	0.696	-	-1.5	20	112	0
2-Nitroaniline	0.231	0.246	-	-6.5	20	114	0
1,4-Dinitrobenzene	0.104	0.12	-	-15.4	20	122	0
1,3-Dinitrobenzene	0.116	0.131	-	-12.9	20	119	0
Dimethyl phthalate	0.859	0.858	-	0.1	20	111	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : SV109
 Lab File ID : ABN0801N
 Sample No : WG1810592-3
 Channel :

Lab Number : L2343170
 Project Number : 2230119
 Calibration Date : 08/01/23 23:57
 Init. Calib. Date(s) : 05/31/23 06/06/23
 Init. Calib. Times : 20:09 19:30

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.097	1.186	-	-8.1	20	120	0
2,6-Dinitrotoluene	0.184	0.188	-	-2.2	20	114	0
1,2-Dinitrobenzene	0.079	0.084	-	-6.3	20	117	0
IS1_Acenaphthene-d10	1	1	-	0	20	116	0
3-Nitroaniline	0.378	0.387	-	-2.4	20	113	0
Acenaphthene	1.188	1.194	-	-0.5	20	115	0
2,4-Dinitrophenol	50	52.85	-	-5.7	20	125	0
Dibenzofuran	1.847	1.842	-	0.3	20	115	0
2,4-Dinitrotoluene	0.43	0.468	-	-8.8	20	118	0
4-Nitrophenol	0.28	0.292	-	-4.3	20	111	0
2,3,5,6-Tetrachlorophenol	0.354	0.382	-	-7.9	20	118	0
2,3,4,6-Tetrachlorophenol	0.375	0.389	-	-3.7	20	117	0
Diethyl phthalate	1.71	1.617	-	5.4	20	108	0
Fluorene	1.494	1.448	-	3.1	20	110	0
4-Chlorophenyl phenyl ethe	0.722	0.73	-	-1.1	20	114	0
4-Nitroaniline	0.37	0.379	-	-2.4	20	118	0
4,6-Dinitro-o-cresol	50	60.748	-	-21.5*	20	144	0
NDPA/DPA	1.284	1.258	-	2	20	111	0
Azobenzene	1.542	1.387	-	10.1	20	103	0
2,4,6-Tribromophenol	0.213	0.265	-	-24.4*	20	133	0
4-Bromophenyl phenyl ether	0.447	0.455	-	-1.8	20	115	0
Hexachlorobenzene	0.516	0.543	-	-5.2	20	121	0
Pentachlorophenol	50	55.822	-	-11.6	20	128	0
IS1_Phenanthrene-d10	1	1	-	0	20	119	0
Phenanthrene	1.062	1.021	-	3.9	20	112	0
Anthracene	1.061	1.054	-	0.7	20	115	0
Carbazole	1.027	1.008	-	1.9	20	115	0
Di-n-butylphthalate	1.391	1.334	-	4.1	20	109	0
Fluoranthene	1.261	1.232	-	2.3	20	113	0
Benzidine	0.784	0.857	-	-9.3	20	136	0
Pyrene	1.308	1.273	-	2.7	20	114	0
4-Terphenyl-d14	0.984	0.955	-	2.9	20	113	0
Butyl benzyl phthalate	0.635	0.621	-	2.2	20	111	0
IS1_Chrysene-d12	1	1	-	0	20	120	0
Benzo(a)anthracene	1.394	1.346	-	3.4	20	117	0
3,3'-Dichlorobenzidine	0.533	0.571	-	-7.1	20	126	0
Chrysene	1.289	1.189	-	7.8	20	112	0
Bis(2-ethylhexyl)phthalate	1.044	0.979	-	6.2	20	109	0
Di-n-octylphthalate	1.841	1.731	-	6	20	109	0
Benzo(b)fluoranthene	1.333	1.405	-	-5.4	20	126	0
Benzo(k)fluoranthene	1.216	1.291	-	-6.2	20	124	0
Benzo(a)pyrene	1.137	1.205	-	-6	20	125	0
IS1_Perylene-d12	1	1	-	0	20	124	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client	: LaBella Associates, P.C.	Lab Number	: L2343170
Project Name	: 42 YORK STREET	Project Number	: 2230119
Instrument ID	: SV109	Calibration Date	: 08/01/23 23:57
Lab File ID	: ABN0801N	Init. Calib. Date(s)	: 05/31/23 06/06/23
Sample No	: WG1810592-3	Init. Calib. Times	: 20:09 19:30
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.053	1.098	-	-4.3	20	126	0
Dibenzo(a,h)anthracene	1.139	1.188	-	-4.3	20	122	0
Benzo(ghi)perylene	1.149	1.168	-	-1.7	20	121	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : JULIET
Lab File ID : ADP0801N
Sample No : WG1810591-5
Channel :

Lab Number : L2343170
Project Number : 2230119
Calibration Date : 08/02/23 00:08
Init. Calib. Date(s) : 07/20/23 07/21/23
Init. Calib. Times : 23:20 12:01

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	92	0
1,4-Dioxane	0.377	0.345	-	8.5	20	88	0
n-Decane	0.824	0.74	-	10.2	20	82	0
IS3_Acenaphthene-d10	1	1	-	0	20	86	0
Atrazine	0.43	0.438	-	-1.9	20	84	0
IS3_Phenanthrene-d10	1	1	-	0	20	86	0
n-Octadecane	0.267	0.236	-	11.6	20	74	0
Parathion	50	44.724	-	10.6	20	80	0
3,3'-Dimethylbenzidine	0.868	0.905	-	-4.3	20	83	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : SV109
Lab File ID : AP90801N
Sample No : WG1810592-4
Channel :

Lab Number : L2343170
Project Number : 2230119
Calibration Date : 08/02/23 00:20
Init. Calib. Date(s) : 05/31/23 06/06/23
Init. Calib. Times : 20:09 19:30

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	155	0
Benzaldehyde	0.823	0.735	-	10.7	20	131	0
Acetophenone	1.793	1.857	-	-3.6	20	154	0
m-Toluidine	1.52	1.423	-	6.4	20	138	0
2-Chloroaniline	1.632	1.642	-	-0.6	20	153	0
IS2_Naphthalene-d8	1	1	-	0	20	149	0
a-Terpineol	0.261	0.272	-	-4.2	20	152	0
3-Chloroaniline	0.131	0.127	-	3.1	20	139	0
2,6-Dichlorophenol	0.269	0.295	-	-9.7	20	159	0
1-chloro-2-nitrobenzene	0.142	0.146	-	-2.8	20	148	0
Caprolactam	0.149	0.153	-	-2.7	20	152	0
1,2,4,5-Tetrachlorobenzene	0.345	0.356	-	-3.2	20	153	0
Biphenyl	0.819	0.847	-	-3.4	20	153	0
IS2_Acenaphthene-d10	1	1	-	0	20	152	0
Dichloran	0.186	0.228	-	-22.6*	20	177	0
Pentachloronitrobenzene	0.206	0.215	-	-4.4	20	153	0
IS2_Phenanthrene-d10	1	1	-	0	20	154	0
Diphenamid	0.512	0.516	-	-0.8	20	151	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : SV109
Lab File ID : ADP0801N
Sample No : WG1810592-5
Channel :

Lab Number : L2343170
Project Number : 2230119
Calibration Date : 08/02/23 00:43
Init. Calib. Date(s) : 05/31/23 06/06/23
Init. Calib. Times : 20:09 19:30

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	169	0
1,4-Dioxane	0.414	0.413	-	0.2	20	160	0
n-Decane	1.18	1.204	-	-2	20	166	0
IS3_Acenaphthene-d10	1	1	-	0	20	164	0
Atrazine	0.421	0.442	-	-5	20	167	0
IS3_Phenanthrene-d10	1	1	-	0	20	161	0
n-Octadecane	0.419	0.395	-	5.7	20	149	0
Parathion	0.118	0.145	-	-22.9*	20	195	0
3,3'-Dimethylbenzidine	0.75	0.866	-	-15.5	20	174	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\8270\Juliet\230801n\
 Data File : ABN0801n.D
 Acq On : 1 Aug 2023 11:21 pm
 Operator : Juliet:jg
 Sample : WG1810591-3,32,,ABN CCV Lot # 10133
 Misc : WG1810591,,ical20193
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Aug 02 12:07:19 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:55 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	IS1_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
2 t	n-Nitrosodimethylamine	0.610	0.648	-6.2	94	0.00
3 t	Pyridine	1.085	1.167	-7.6	91	0.00
4 S	2-Fluorophenol	1.008	1.169	-16.0	101	0.00
5 T	Aniline	1.656	1.735	-4.8	92	0.00
6 t	2-Chlorophenol	1.249	1.340	-7.3	98	0.00
7 S	Phenol-d6	1.291	1.384	-7.2	93	0.00
8 T	Phenol	1.442	1.364	5.4	83	0.00
9 T	Bis(2-chloroethyl)ether	0.960	0.941	2.0	90	0.00
10 T	1,3-Dichlorobenzene	1.430	1.546	-8.1	100	0.00
11 T	1,4-Dichlorobenzene	1.437	1.568	-9.1	103	0.00
12 T	1,2-Dichlorobenzene	1.388	1.513	-9.0	102	0.00
13 t	Benzyl alcohol	0.897	0.899	-0.2	89	0.00
14 T	Bis(2-chloroisopropyl)ether	1.171	1.031	12.0	81	0.00
15 T	2-Methylphenol	1.018	1.046	-2.8	93	0.00
16 T	Hexachloroethane	0.491	0.528	-7.5	101	0.00
17 T	n-Nitrosodi-n-propylamine	0.755	0.731	3.2	88	0.00
18 T	3-Methylphenol/4-Methylphen	1.076	1.100	-2.2	92	0.00
19 S	Nitrobenzene-d5	1.160	1.153	0.6	90	0.00
20 T	Nitrobenzene	1.125	1.099	2.3	91	0.00
21 T	Isophorone	2.148	2.023	5.8	87	0.00
22 T	2-Nitrophenol	0.682	0.742	-8.8	97	0.00
23 T	2,4-Dimethylphenol	1.167	1.192	-2.1	92	0.00
24 T	Bis(2-chloroethoxy)methane	1.262	1.207	4.4	90	0.00
25 T	2,4-Dichlorophenol	1.157	1.257	-8.6	98	0.00
26 T	1,2,4-Trichlorobenzene	1.294	1.388	-7.3	100	0.00
35 I	IS1_Naphthalene-d8	1.000	1.000	0.0	87	0.00
36 T	Naphthalene	0.985	1.061	-7.7	96	0.00
37 T	Benzoic Acid	0.234	0.254	-8.5	90	0.00
38 T	4-Chloroaniline	0.100	0.105	-5.0	88	0.00
39 T	Hexachlorobutadiene	0.201	0.240	-19.4	104	0.00
40 T	p-Chloro-m-cresol	0.282	0.313	-11.0	93	0.00
41 T	2-Methylnaphthalene	0.665	0.748	-12.5	96	0.00
42 T	1-Methylnaphthalene	0.216	0.226	-4.6	92	0.00
43 T	Hexachlorocyclopentadiene	* 50.000	46.190	7.6	85	0.00
44 T	2,4,6-Trichlorophenol	0.243	0.283	-16.5	99	0.00
45 T	2,4,5-Trichlorophenol	0.265	0.296	-11.7	94	0.00
46 S	2-Fluorobiphenyl	0.841	0.912	-8.4	96	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Juliet\230801n\
 Data File : ABN0801n.D
 Acq On : 1 Aug 2023 11:21 pm
 Operator : Juliet:jg
 Sample : WG1810591-3,32,,ABN CCV Lot # 10133
 Misc : WG1810591,,ical20193
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Aug 02 12:07:19 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:55 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47 T	2-Chloronaphthalene	0.710	0.764	-7.6	96	0.00
48 T	2-Nitroaniline	0.236	0.259	-9.7	95	0.00
49 T	1,4-Dinitrobenzene	0.106	0.120	-13.2	93	0.00
50 T	1,3-Dinitrobenzene	0.122	0.131	-7.4	92	0.00
51 T	Dimethyl phthalate	0.871	0.934	-7.2	97	0.00
52 T	Acenaphthylene	1.161	1.263	-8.8	97	0.00
53 T	2,6-Dinitrotoluene	0.181	0.200	-10.5	96	0.00
54 T	1,2-Dinitrobenzene	0.074	0.077	-4.1	95	0.00
63 I	IS1_Acenaphthene-d10	1.000	1.000	0.0	86	0.00
64 T	3-Nitroaniline	0.350	0.390	-11.4	93	0.00
65 T	Acenaphthene	1.101	1.120	-1.7	92	0.00
66 T	2,4-Dinitrophenol	* 50.000	51.115	-2.2	92	0.00
67 T	Dibenzofuran	1.707	1.887	-10.5	97	0.00
68 T	2,4-Dinitrotoluene	0.419	0.455	-8.6	93	0.00
69 T	4-Nitrophenol	0.213	0.206	3.3	78	0.00
70 T	2,3,5,6-Tetrachlorophenol	0.356	0.409	-14.9	93	0.00
71 T	2,3,4,6-Tetrachlorophenol	0.373	0.437	-17.2	102	0.00
72 T	Diethyl phthalate	1.428	1.553	-8.8	95	0.00
73 T	Fluorene	1.383	1.487	-7.5	93	0.00
74 T	4-Chlorophenyl phenyl ether	0.670	0.738	-10.1	94	0.00
75 T	4-Nitroaniline	0.328	0.363	-10.7	94	0.00
76 T	4,6-Dinitro-o-cresol	0.249	0.303	-21.7#	99	0.00
77 T	NDPA/DPA	1.177	1.274	-8.2	96	0.00
78 T	Azobenzene	1.063	1.068	-0.5	87	0.00
79 S	2,4,6-Tribromophenol	0.230	0.282	-22.6#	105	0.00
80 T	4-Bromophenyl phenyl ether	0.438	0.505	-15.3	99	0.00
81 T	Hexachlorobenzene	0.508	0.579	-14.0	101	0.00
82 T	Pentachlorophenol	* 50.000	54.378	-8.8	96	0.00
88 I	IS1_Phenanthrene-d10	1.000	1.000	0.0	85	0.00
89 T	Phenanthrene	0.996	1.054	-5.8	95	0.00
90 T	Anthracene	0.998	1.070	-7.2	96	0.00
91 T	Carbazole	0.959	1.002	-4.5	94	0.00
92 T	Di-n-butylphthalate	1.167	1.257	-7.7	94	0.00
93 T	Fluoranthene	1.296	1.384	-6.8	94	0.00
94 T	Benzidine	0.855	0.911	-6.5	96	0.00
95 T	Pyrene	1.335	1.371	-2.7	93	0.00
96 S	4-Terphenyl-d14	0.974	1.033	-6.1	96	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Juliet\230801n\
 Data File : ABN0801n.D
 Acq On : 1 Aug 2023 11:21 pm
 Operator : Juliet:jg
 Sample : WG1810591-3,32,,ABN CCV Lot # 10133
 Misc : WG1810591,,ical20193
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Aug 02 12:07:19 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:55 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97 T	Butyl benzyl phthalate	0.580	0.617	-6.4	91	0.00
104 I	IS1_Chrysene-d12	1.000	1.000	0.0	85	0.00
105 T	Benzo(a)anthracene	1.349	1.441	-6.8	94	0.00
106 T	3,3'-Dichlorobenzidine	0.528	0.575	-8.9	92	0.00
107 T	Chrysene	1.125	1.210	-7.6	98	0.00
108 T	Bis(2-ethylhexyl)phthalate	0.750	0.830	-10.7	93	0.00
109 T	Di-n-octylphthalate	1.406	1.598	-13.7	91	0.00
110 T	Benzo(b)fluoranthene	1.402	1.546	-10.3	94	0.00
111 T	Benzo(k)fluoranthene	1.265	1.339	-5.8	96	0.00
112 T	Benzo(a)pyrene	1.209	1.400	-15.8	100	0.00
113 I	IS1_Perylene-d12	1.000	1.000	0.0	86	0.00
114 T	Indeno(1,2,3-cd)pyrene	1.059	1.201	-13.4	97	0.00
115 T	Dibenzo(a,h)anthracene	1.082	1.192	-10.2	94	0.00
116 T	Benzo(ghi)perylene	1.109	1.235	-11.4	97	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
 Data File : ABN0801n.D
 Acq On : 1 Aug 2023 11:21 pm
 Operator : Juliet:jg
 Sample : WG1810591-3,32,,ABN CCV Lot # 10133
 Misc : WG1810591,,ical20193
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Aug 02 12:07:19 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:55 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.319	152	216721	40.000	ug/ml	0.00
35) IS1_Naphthalene-d8	4.407	136	758234	40.000	ug/ml	# 0.00
63) IS1_Acenaphthene-d10	5.919	164	451048	40.000	ug/ml	0.00
88) IS1_Phenanthrene-d10	7.189	188	1011690	40.000	ug/ml	# 0.00
104) IS1_Chrysene-d12	9.589	240	1043233	40.000	ug/ml	# 0.00
113) IS1_Perylene-d12	11.483	264	1222692	40.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.231	112	316791	57.993	ug/ml	0.00
Spiked Amount	50.000	Range 15 - 110	Recovery =	115.99%#		
7) Phenol-d6	3.066	99	374989	53.616	ug/ml	0.00
Spiked Amount	50.000	Range 15 - 110	Recovery =	107.23%		
19) Nitrobenzene-d5	3.807	82	312267	49.695	ug/ml	0.00
Spiked Amount	25.000	Range 30 - 130	Recovery =	198.78%#		
46) 2-Fluorobiphenyl	5.366	172	864544	54.249	ug/ml	0.00
Spiked Amount	25.000	Range 30 - 130	Recovery =	217.00%#		
79) 2,4,6-Tribromophenol	6.607	330	159188	61.508	ug/ml	0.00
Spiked Amount	50.000	Range 15 - 110	Recovery =	123.02%#		
96) 4-Terphenyl-d14	8.595	244	1306870	53.037	ug/ml	0.00
Spiked Amount	25.000	Range 30 - 130	Recovery =	212.15%#		
Target Compounds						
2) n-Nitrosodimethylamine	1.219	74	175487	53.109	ug/ml#	80
3) Pyridine	1.237	79	316012	53.769	ug/ml#	76
5) Aniline	3.049	93	470020	52.392	ug/ml#	70
6) 2-Chlorophenol	3.143	128	362919	53.650	ug/ml	93
8) Phenol	3.072	94	369624M6	47.299	ug/ml	
9) Bis(2-chloroethyl)ether	3.119	93	254853	48.984	ug/ml	95
10) 1,3-Dichlorobenzene	3.266	146	418741	54.052	ug/ml	97
11) 1,4-Dichlorobenzene	3.331	146	424653	54.533	ug/ml	97
12) 1,2-Dichlorobenzene	3.460	146	409816	54.513	ug/ml	97
13) Benzyl alcohol	3.466	79	243638	50.154	ug/ml	95
14) Bis(2-chloroisopropyl)...	3.590	45	279266	44.019	ug/ml#	65
15) 2-Methylphenol	3.590	108	283374	51.381	ug/ml	98
16) Hexachloroethane	3.743	117	143163	53.762	ug/ml#	75
17) n-Nitrosodi-n-propylamine	3.701	70	198067	48.452	ug/ml	98
18) 3-Methylphenol/4-Methy...	3.731	108	297930	51.117	ug/ml	98
20) Nitrobenzene	3.819	77	297671	48.853	ug/ml	98
21) Isophorone	4.037	82	548002	47.085	ug/ml	98
22) 2-Nitrophenol	4.101	139	200887	54.383	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
 Data File : ABN0801n.D
 Acq On : 1 Aug 2023 11:21 pm
 Operator : Juliet:jg
 Sample : WG1810591-3,32,,ABN CCV Lot # 10133
 Misc : WG1810591,,ical20193
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Aug 02 12:07:19 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:55 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	4.184	107	323040	51.110	ug/ml	98
24) Bis(2-chloroethoxy)met...	4.254	93	326869	47.823	ug/ml	98
25) 2,4-Dichlorophenol	4.319	162	340634	54.317	ug/ml#	95
26) 1,2,4-Trichlorobenzene	4.378	180	375956	53.618	ug/ml	98
36) Naphthalene	4.425	128	1005177	53.812	ug/ml	99
37) Benzoic Acid	4.331	105	240407	54.259	ug/ml	98
38) 4-Chloroaniline	4.501	65	99170	52.411	ug/ml	74
39) Hexachlorobutadiene	4.560	225	227042	59.506	ug/ml	99
40) p-Chloro-m-cresol	4.960	107	296207	55.340	ug/ml	96
41) 2-Methylnaphthalene	5.031	142	708593	56.205	ug/ml	98
42) 1-Methylnaphthalene	5.113	115	214122	52.176	ug/ml	91
43) Hexachlorocyclopentadiene	5.178	237	173355	46.190	ug/ml	98
44) 2,4,6-Trichlorophenol	5.301	196	268025	58.227	ug/ml	100
45) 2,4,5-Trichlorophenol	5.331	196	280425	55.895	ug/ml	99
47) 2-Chloronaphthalene	5.448	162	724465	53.842	ug/ml	96
48) 2-Nitroaniline	5.560	138	245800	55.019	ug/ml	87
49) 1,4-Dinitrobenzene	5.695	168	113305	56.151	ug/ml	87
50) 1,3-Dinitrobenzene	5.766	168	124486	53.892	ug/ml	95
51) Dimethyl phthalate	5.748	163	885524	53.654	ug/ml	99
52) Acenaphthylene	5.795	152	1197075	54.383	ug/ml	99
53) 2,6-Dinitrotoluene	5.784	165	189333	55.294	ug/ml#	64
54) 1,2-Dinitrobenzene	5.825	168	72790	51.647	ug/ml#	30
64) 3-Nitroaniline	5.919	138	220015	55.741	ug/ml#	89
65) Acenaphthene	5.948	154	631604	50.888	ug/ml	99
66) 2,4-Dinitrophenol	6.025	184	112305	51.115	ug/ml#	90
67) Dibenzofuran	6.101	168	1063977	55.283	ug/ml	91
68) 2,4-Dinitrotoluene	6.137	165	256726	54.313	ug/ml#	78
69) 4-Nitrophenol	6.119	65	116162	48.321	ug/ml#	48
70) 2,3,5,6-Tetrachlorophenol	6.195	232	230431	57.435	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	6.231	232	246637	58.690	ug/ml	99
72) Diethyl phthalate	6.354	149	875650	54.388	ug/ml	99
73) Fluorene	6.395	166	838584	53.775	ug/ml	99
74) 4-Chlorophenyl phenyl ...	6.413	204	415972	55.069	ug/ml	93
75) 4-Nitroaniline	6.448	138	204500	55.311	ug/ml#	77
76) 4,6-Dinitro-o-cresol	6.490	198	170959	60.936	ug/ml#	83
77) NDPA/DPA	6.525	169	718027	54.122	ug/ml	99
78) Azobenzene	6.548	77	601985M6	50.208	ug/ml	
80) 4-Bromophenyl phenyl e...	6.831	248	284959	57.727	ug/ml	97
81) Hexachlorobenzene	6.872	284	326315	56.916	ug/ml	97
82) Pentachlorophenol	7.060	266	173434	54.378	ug/ml	99
89) Phenanthrene	7.213	178	1332795	52.933	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
 Data File : ABN0801n.D
 Acq On : 1 Aug 2023 11:21 pm
 Operator : Juliet:jg
 Sample : WG1810591-3,32,,ABN CCV Lot # 10133
 Misc : WG1810591,,ical20193
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Aug 02 12:07:19 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:55 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Anthracene	7.254	178	1352908	53.600	ug/ml	99
91) Carbazole	7.413	167	1267742	52.278	ug/ml	99
92) Di-n-butylphthalate	7.766	149	1589295	53.866	ug/ml	99
93) Fluoranthene	8.231	202	1749785	53.401	ug/ml#	94
94) Benzidine	8.378	184	1152501	53.325	ug/ml#	96
95) Pyrene	8.419	202	1733826	51.332	ug/ml	99
97) Butyl benzyl phthalate	9.072	149	780409	53.216	ug/ml	94
105) Benzo(a)anthracene	9.578	228	1878693	53.411	ug/ml	99
106) 3,3'-Dichlorobenzidine	9.595	252	749556	54.481	ug/ml	99
107) Chrysene	9.625	228	1578210	53.795	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	9.754	149	1082620	55.341	ug/ml	98
109) Di-n-octylphthalate	10.613	149	2083459	56.817	ug/ml#	95
110) Benzo(b)fluoranthene	10.954	252	2015680M3	55.138	ug/ml	
111) Benzo(k)fluoranthene	10.989	252	1746689	52.924	ug/ml#	94
112) Benzo(a)pyrene	11.401	252	1826292	57.917	ug/ml#	96
114) Indeno(1,2,3-cd)pyrene	13.066	276	1835924	56.702	ug/mL	94
115) Dibenzo(a,h)anthracene	13.118	278	1822131	55.113	ug/ml	96
116) Benzo(ghi)perylene	13.442	276	1887557	55.667	ug/ml#	93

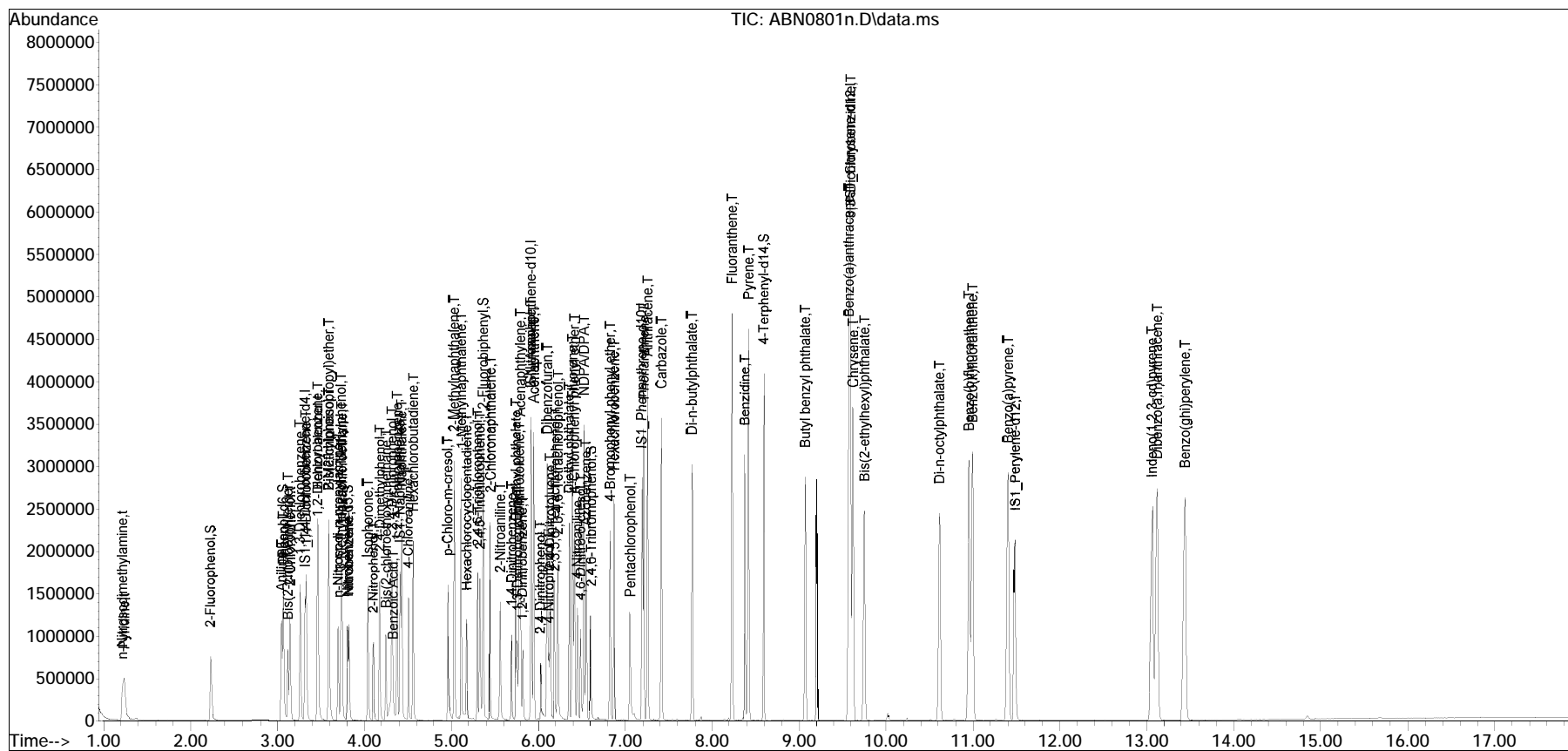
(#) = qualifier out of range (m) = manual integration (+) = signals summed

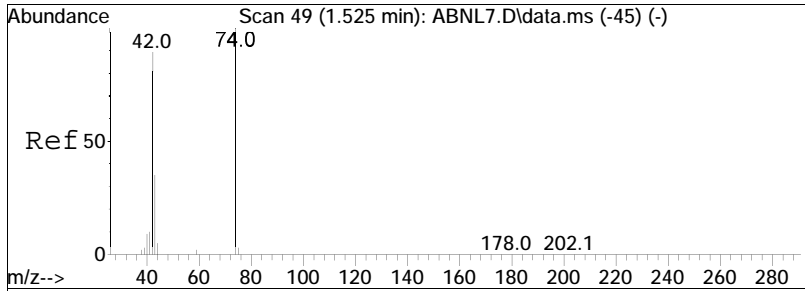
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
 Data File : ABN0801n.D
 Acq On : 1 Aug 2023 11:21 pm
 Operator : Juliet:jg
 Sample : WG1810591-3,32,,ABN CCV Lot # 10133
 Misc : WG1810591,,ical20193
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Aug 02 12:07:19 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:55 2023
 Response via : Initial Calibration

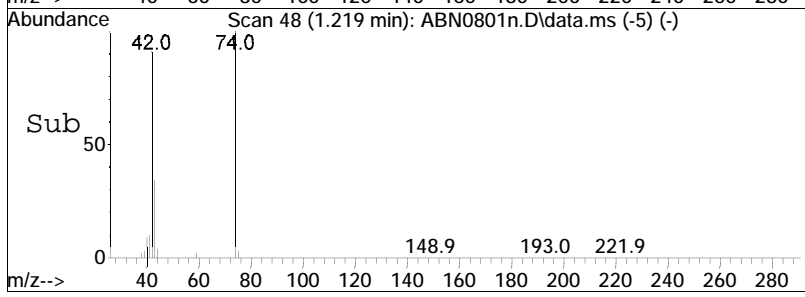
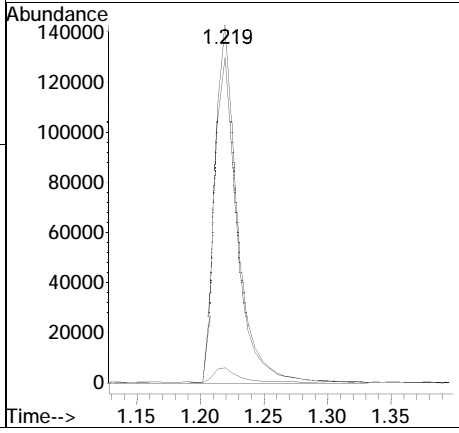
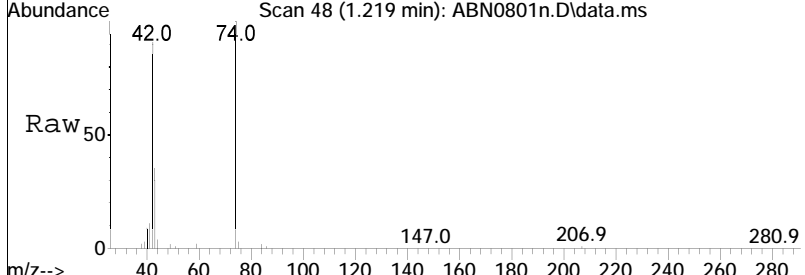
Sub List : ABNical - ABN ical sublist

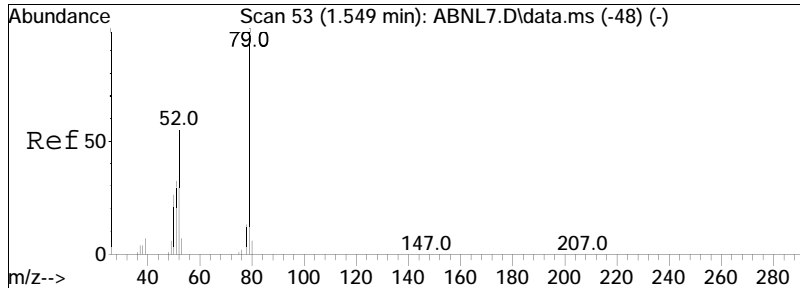




#2
 n-Nitrosodimethylamine
 Concen: 53.11 ug/ml
 RT: 1.219 min Scan# 48
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

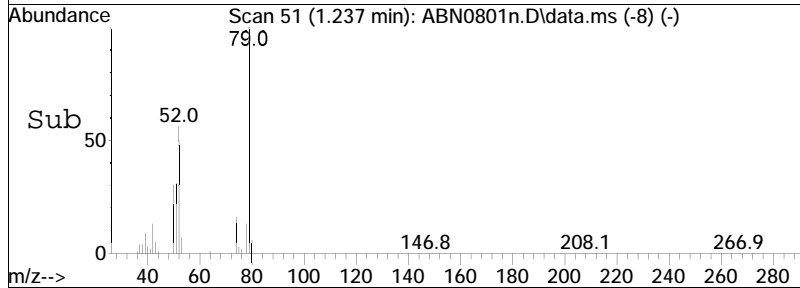
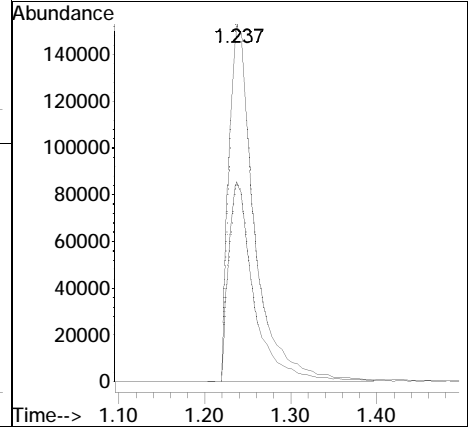
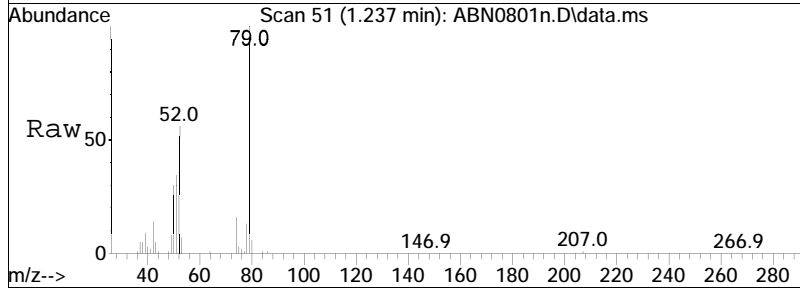
Tgt Ion	Ratio	Lower	Upper
74	100		
42	92.9	60.1	90.1#
44	4.4	4.6	6.8#

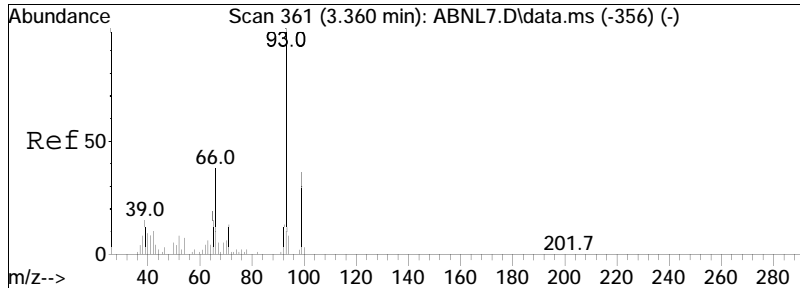




#3
 Pyridine
 Concen: 53.77 ug/ml
 RT: 1.237 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

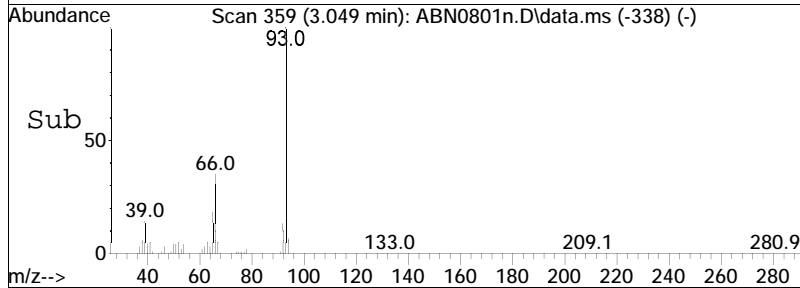
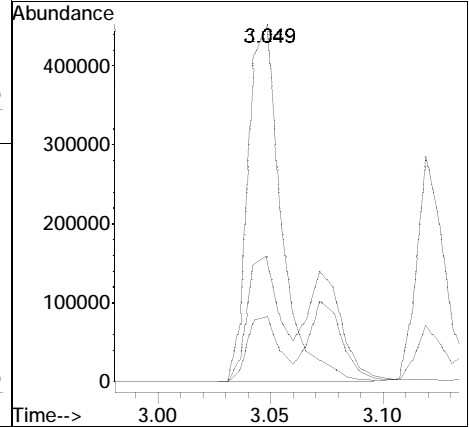
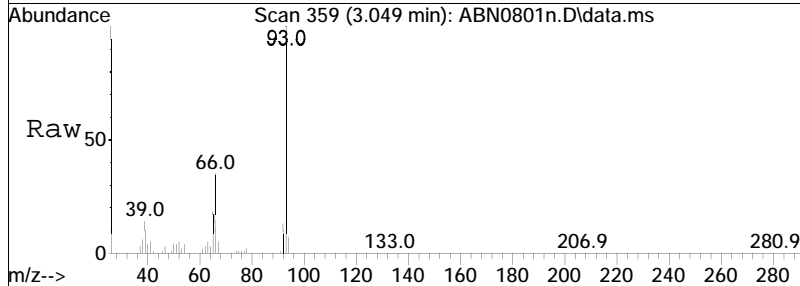
Tgt Ion:	79	Resp:	316012
Ion Ratio	Lower	Upper	
79	100		
52	55.5	60.9	91.3#

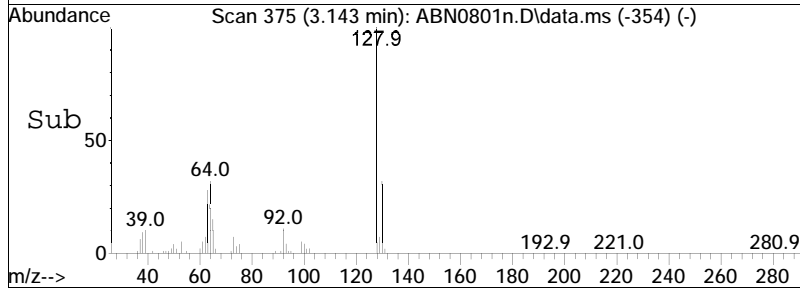
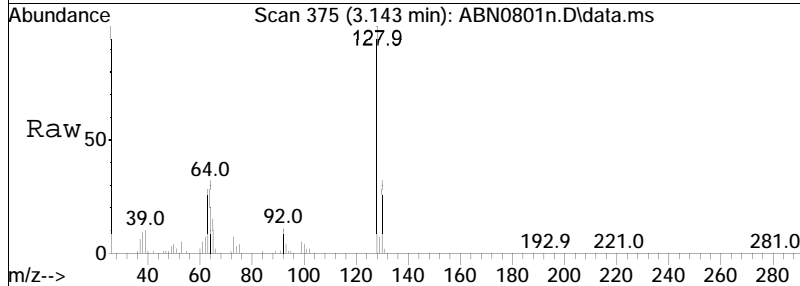
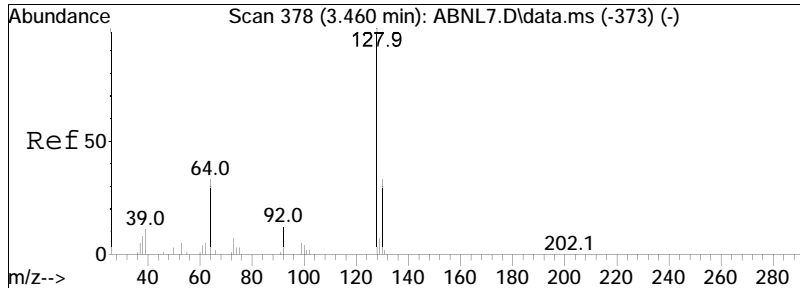




#5
 Aniline
 Concen: 52.39 ug/ml
 RT: 3.049 min Scan# 359
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

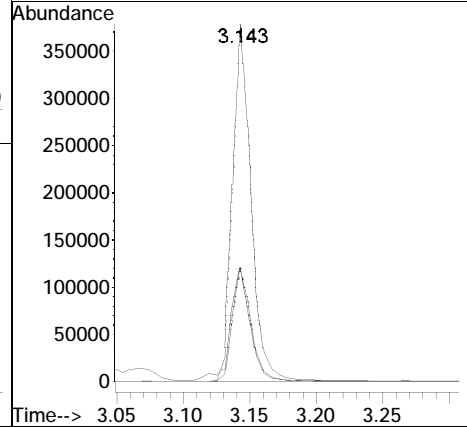
Tgt Ion:	93	Resp:	470020
Ion Ratio	Lower	Upper	
93	100		
66	35.1	51.5	77.3#
65	17.9	16.6	24.8

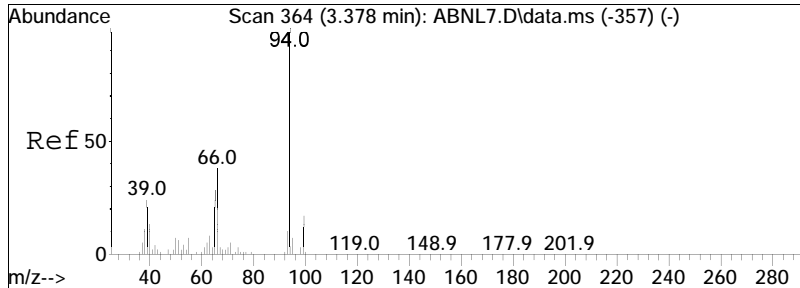




#6
 2-Chlorophenol
 Concen: 53.65 ug/ml
 RT: 3.143 min Scan# 375
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

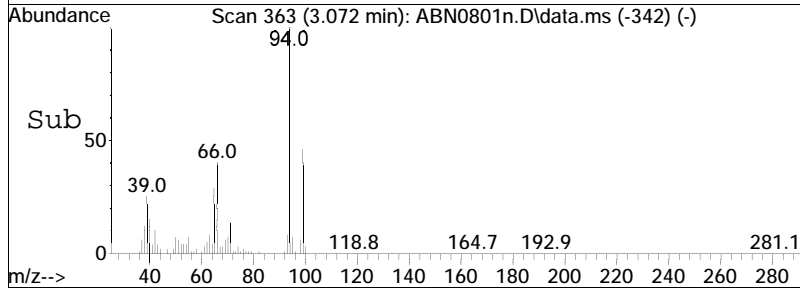
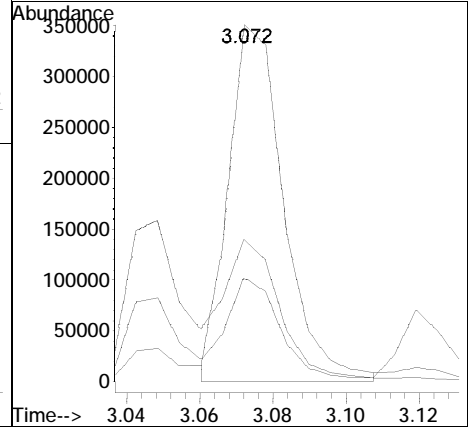
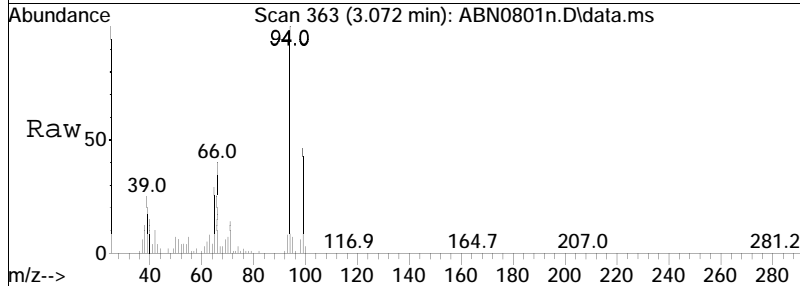
Tgt Ion	Ratio	Lower	Upper
128	100		
64	34.4	33.4	50.0
130	32.0	26.2	39.2

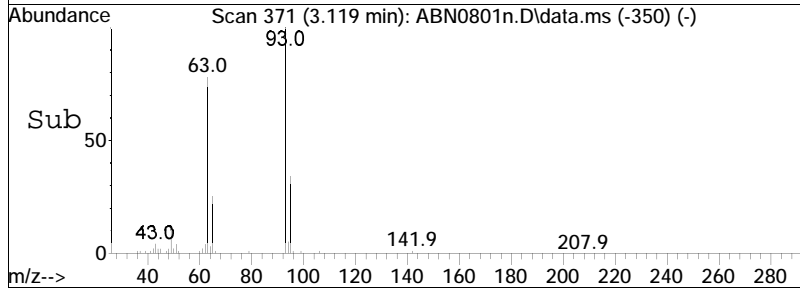
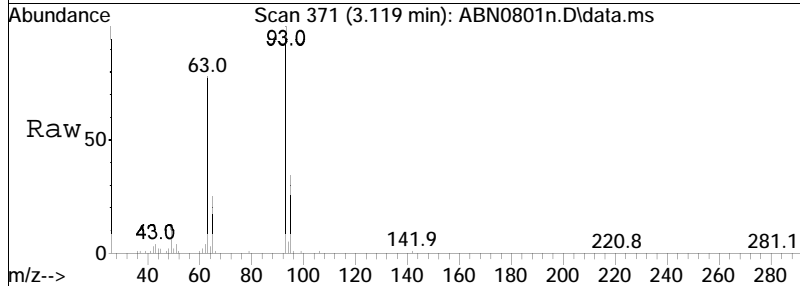
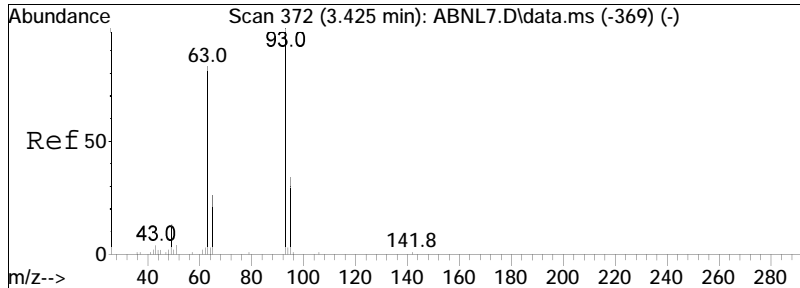




#8
 Phenol
 Concen: 47.30 ug/ml M6
 RT: 3.072 min Scan# 363
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

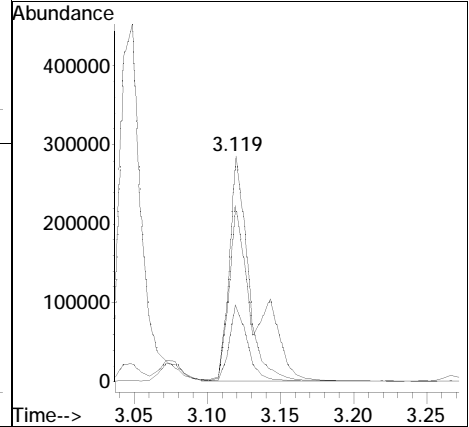
Tgt Ion	Resp	Lower	Upper
94	100		
65	28.0	19.4	29.0
66	41.4	60.4	90.6#

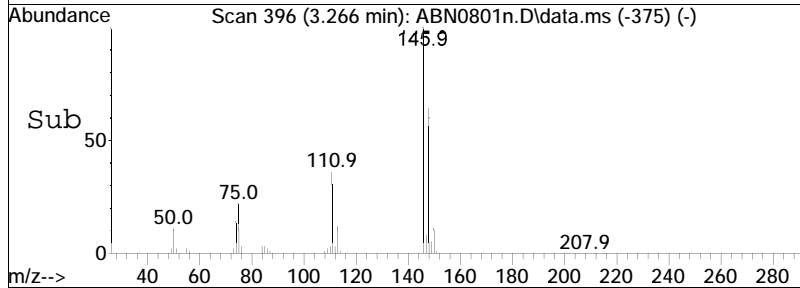
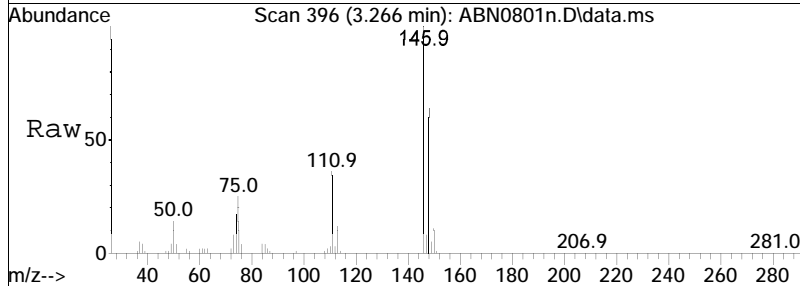
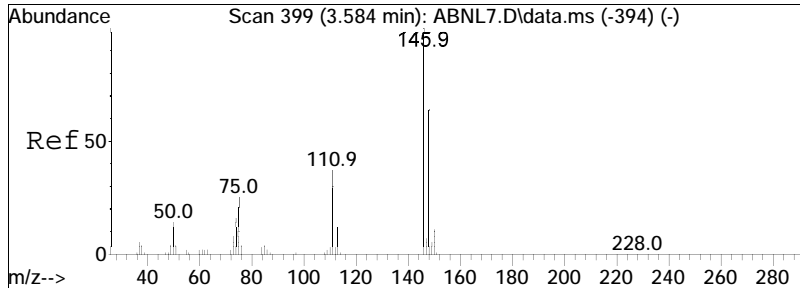




#9
 Bis(2-chloroethyl)ether
 Concen: 48.98 ug/ml
 RT: 3.119 min Scan# 371
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

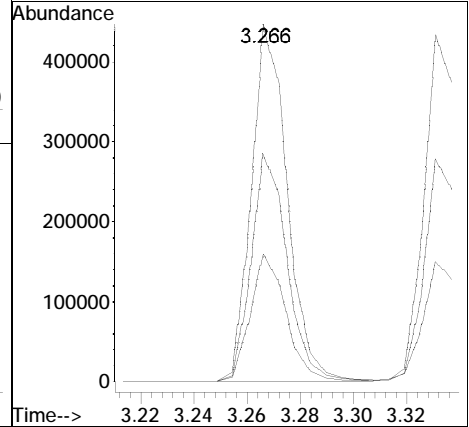
Tgt Ion	Resp	Lower	Upper
93	100		
63	82.0	70.4	105.6
95	32.8	26.6	39.8

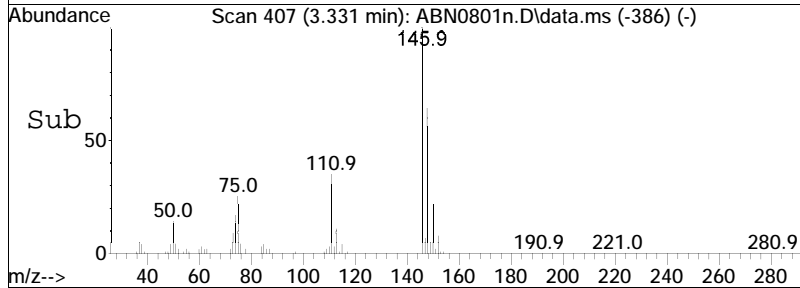
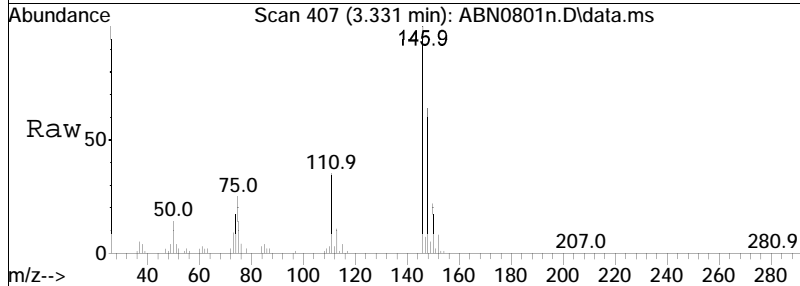
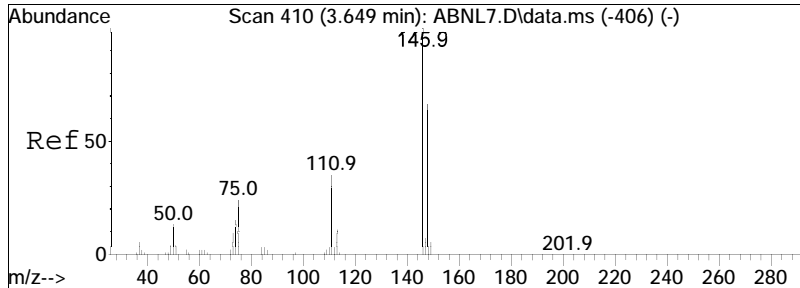




#10
 1,3-Dichlorobenzene
 Concen: 54.05 ug/ml
 RT: 3.266 min Scan# 396
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

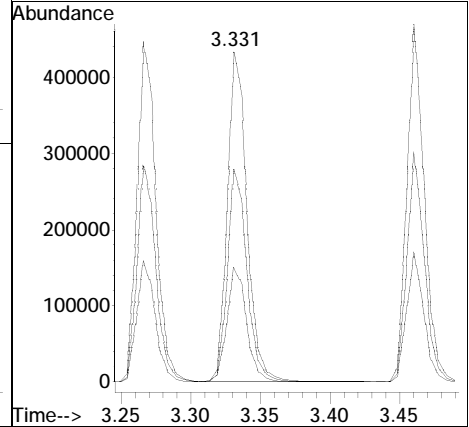
Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.6	31.4	47.0
148	63.6	51.8	77.6

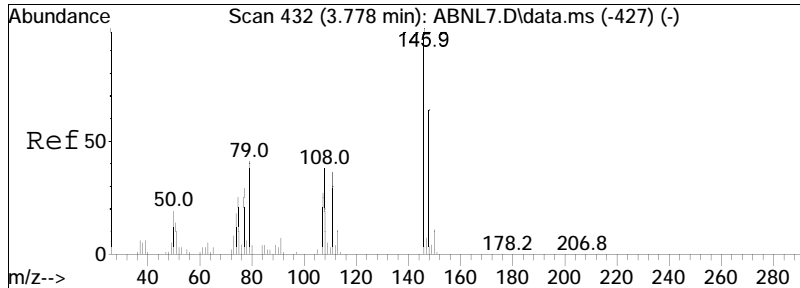




#11
 1,4-Dichlorobenzene
 Concen: 54.53 ug/ml
 RT: 3.331 min Scan# 407
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

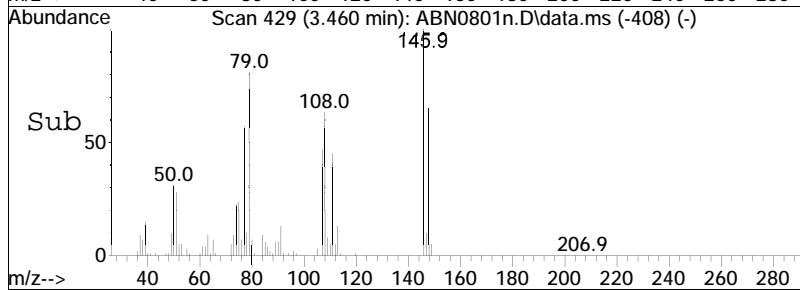
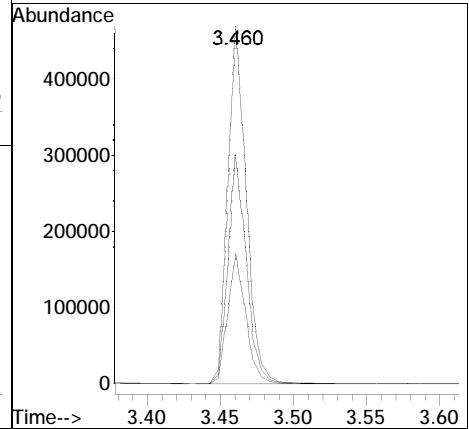
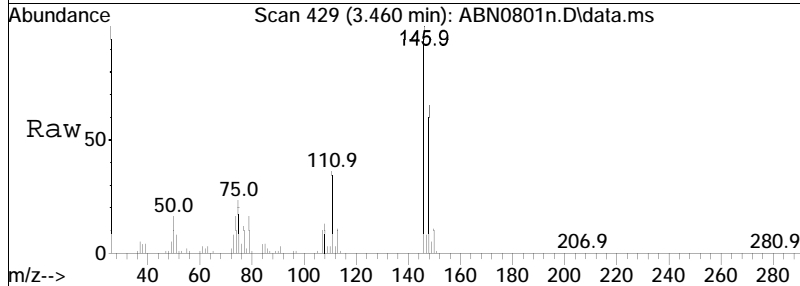
Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.1	52.4	78.6
111	35.2	30.6	46.0

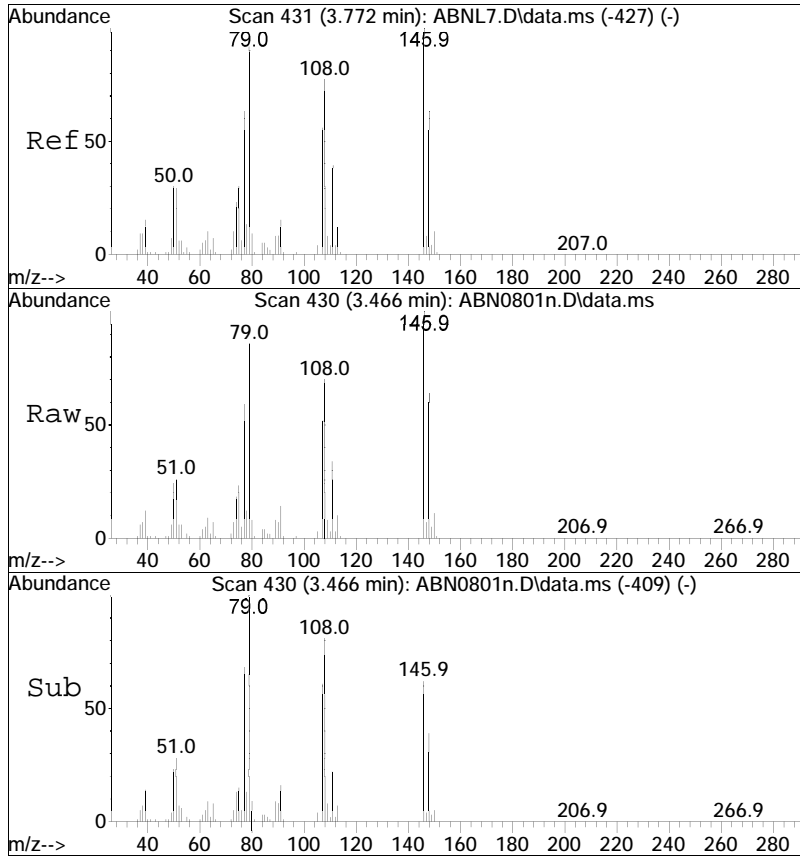




#12
 1,2-Dichlorobenzene
 Concen: 54.51 ug/ml
 RT: 3.460 min Scan# 429
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

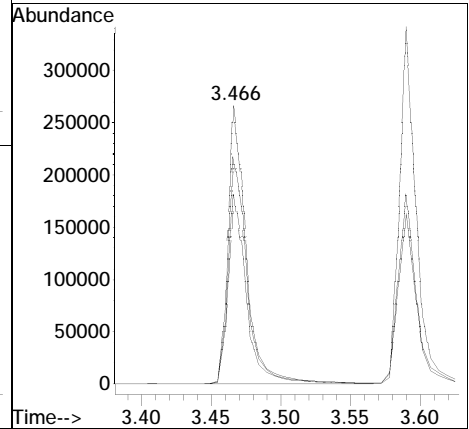
Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.9	32.1	48.1
148	63.7	51.9	77.9

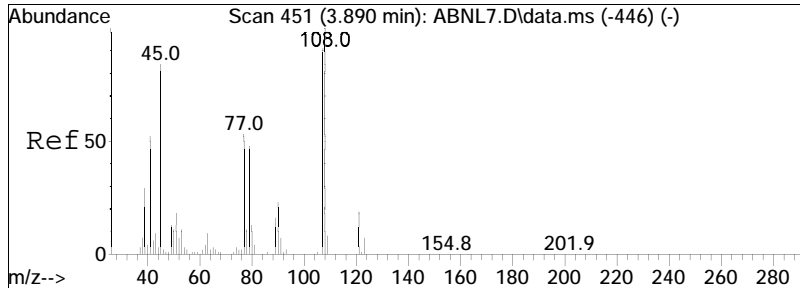




#13
 Benzyl alcohol
 Concen: 50.15 ug/ml
 RT: 3.466 min Scan# 430
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

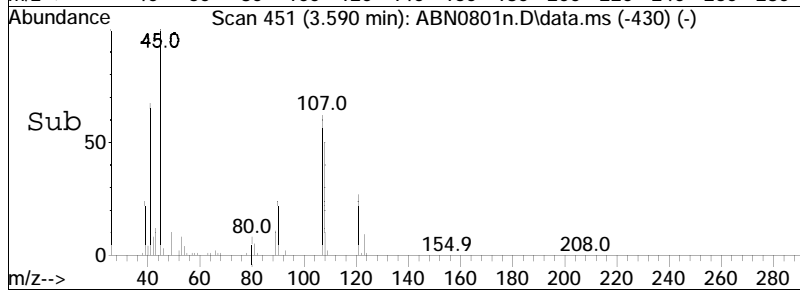
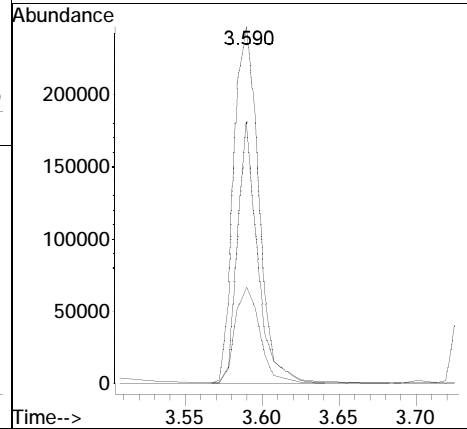
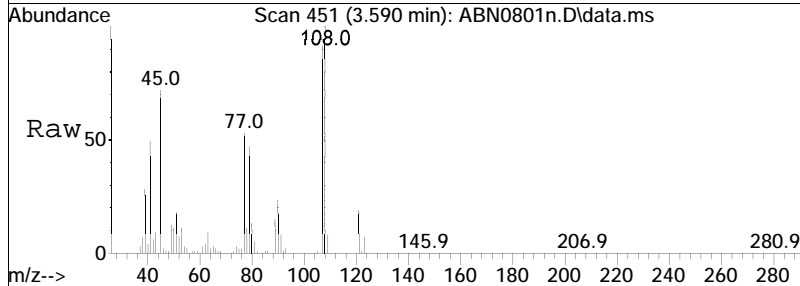
Tgt Ion:	79	Resp:	243638
Ion Ratio	Lower	Upper	
79	100		
77	68.7	50.5	75.7
108	84.2	70.1	105.1

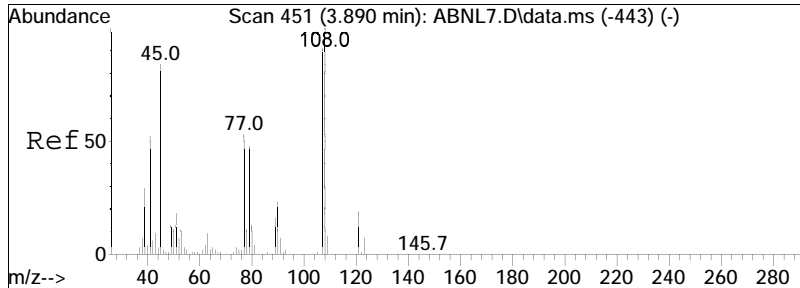




#14
 Bis(2-chloroisopropyl) ether
 Concen: 44.02 ug/ml
 RT: 3.590 min Scan# 451
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

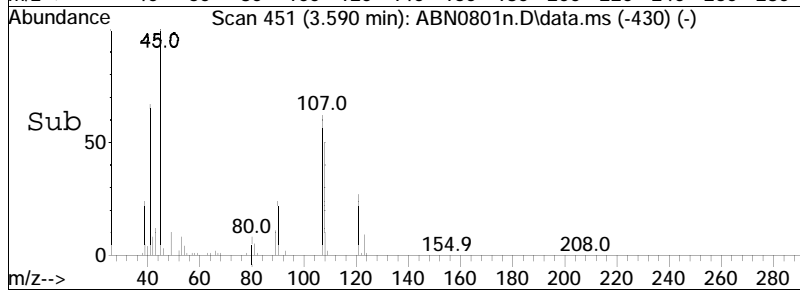
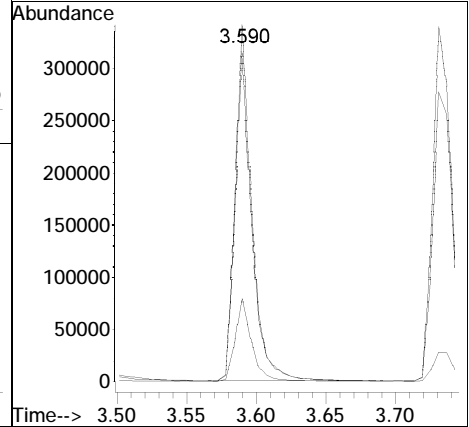
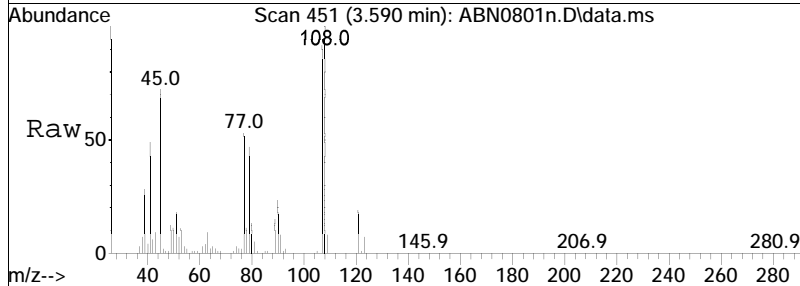
Tgt Ion	Resp	Lower	Upper
45	100		
121	27.0	13.7	20.5#
77	58.8	28.2	42.2#

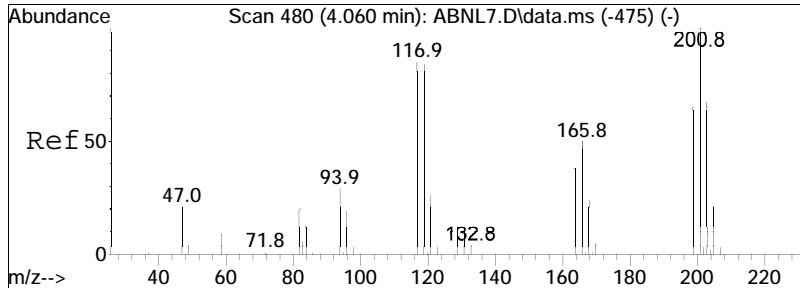




#15
 2-Methylphenol
 Concen: 51.38 ug/ml
 RT: 3.590 min Scan# 451
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

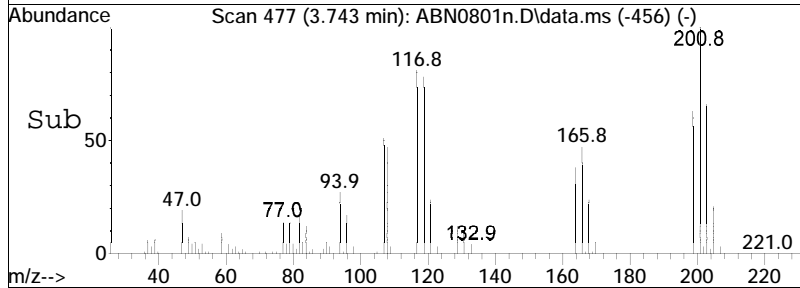
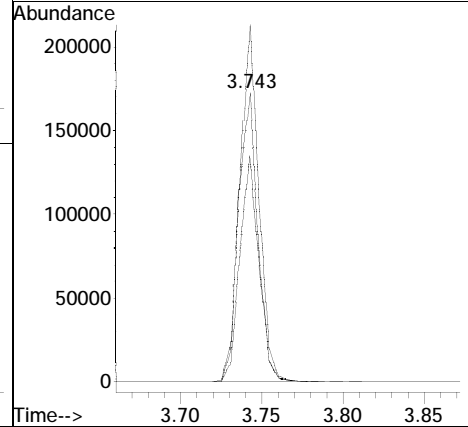
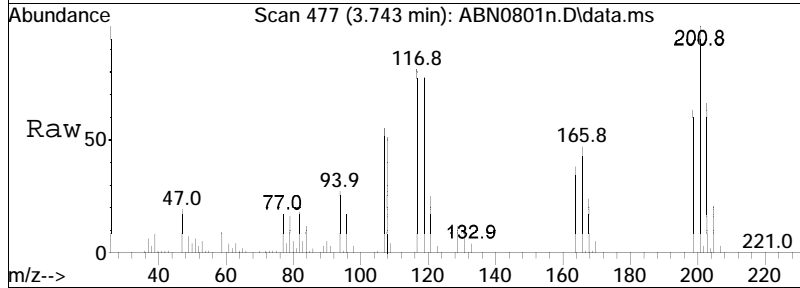
Tgt Ion	Ratio	Lower	Upper
108	100		
107	92.7	72.6	108.8
90	23.2	18.6	27.8

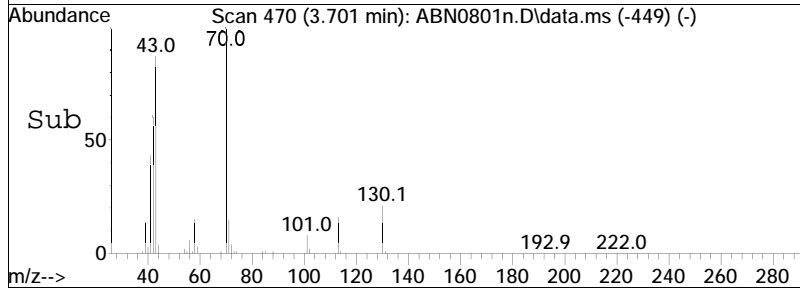
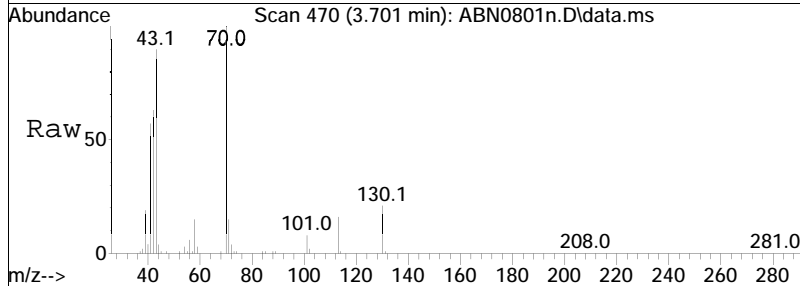
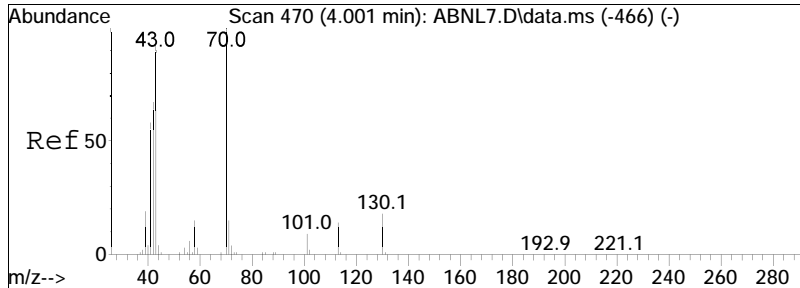




#16
 Hexachloroethane
 Concen: 53.76 ug/ml
 RT: 3.743 min Scan# 477
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

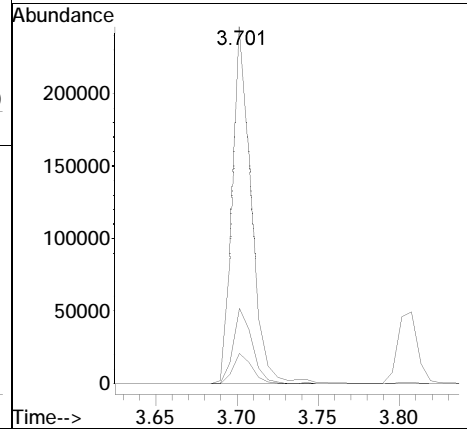
Tgt Ion	Resp	Lower	Upper
117	143163		
100			
201	120.4	75.4	113.0#
199	76.6	48.0	72.0#

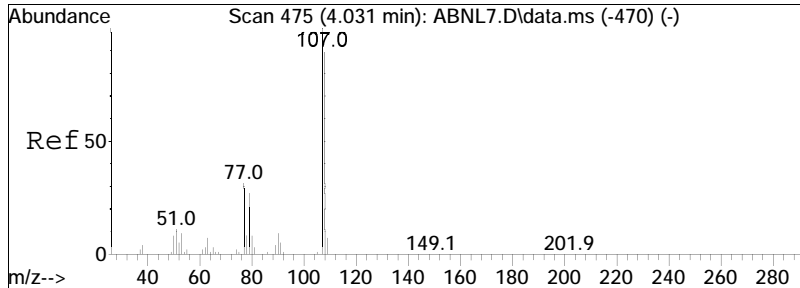




#17
 n-Nitrosodi-n-propylamine
 Concen: 48.45 ug/ml
 RT: 3.701 min Scan# 470
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

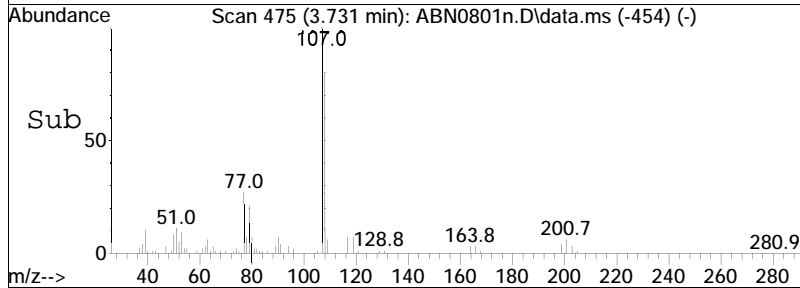
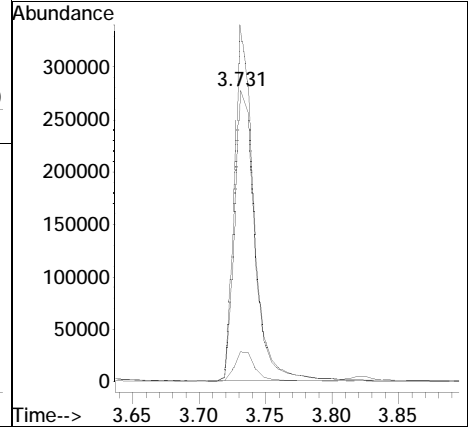
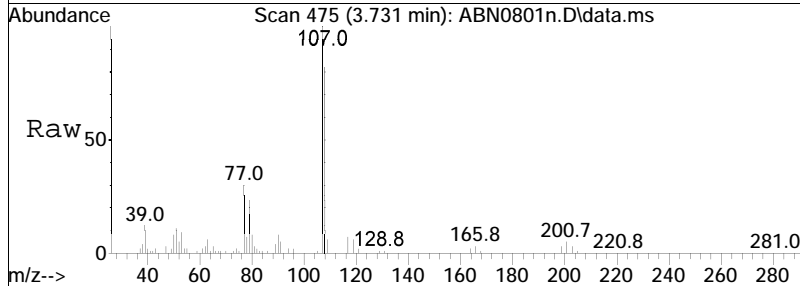
Tgt Ion:	70	Resp:	198067
Ion Ratio	Lower	Upper	
70	100		
130	21.0	15.7	23.5
101	8.7	6.7	10.1

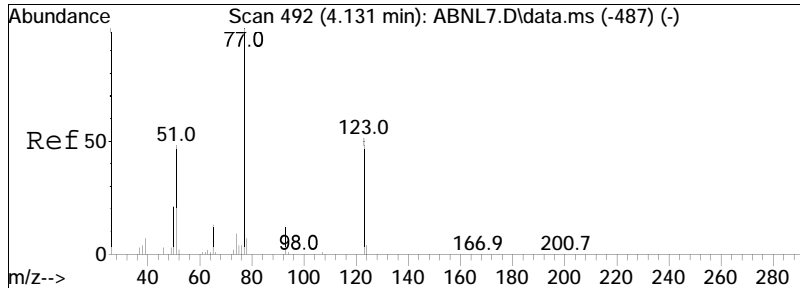




#18
 3-Methylphenol/4-Methylphenol
 Concen: 51.12 ug/ml
 RT: 3.731 min Scan# 475
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

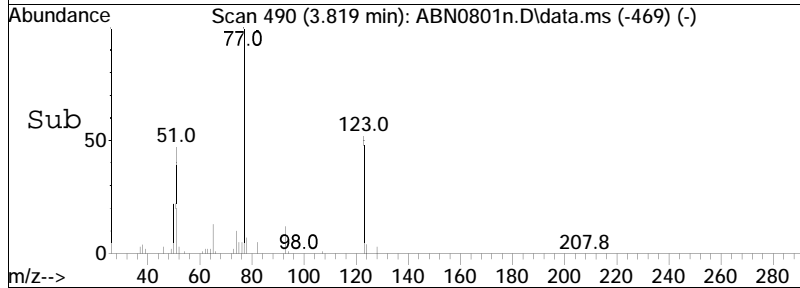
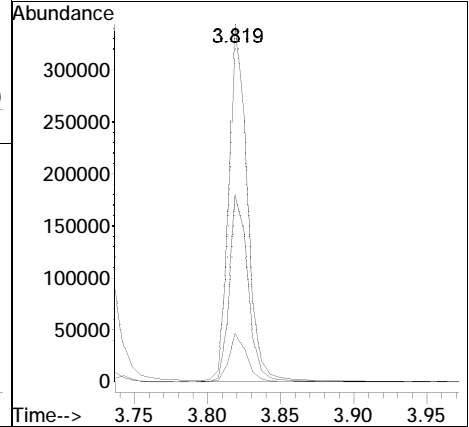
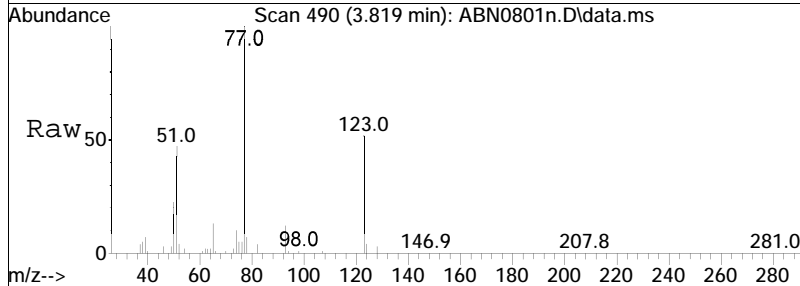
Tgt Ion	Ratio	Lower	Upper
108	100		
107	115.3	90.7	136.1
90	10.5	8.6	13.0

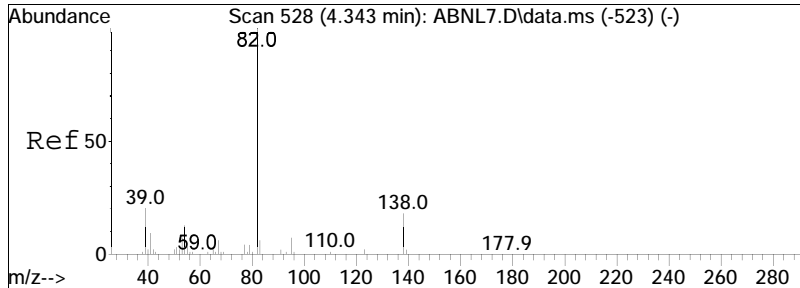




#20
 Nitrobenzene
 Concen: 48.85 ug/ml
 RT: 3.819 min Scan# 490
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

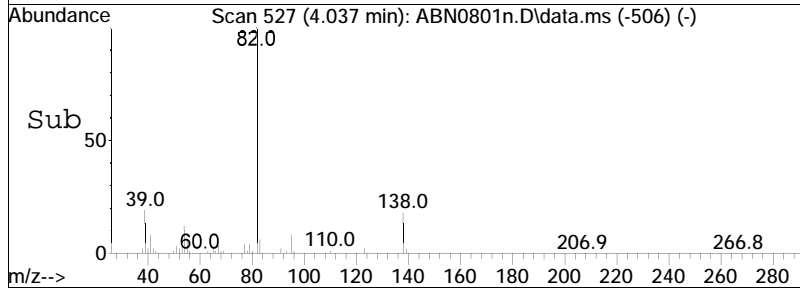
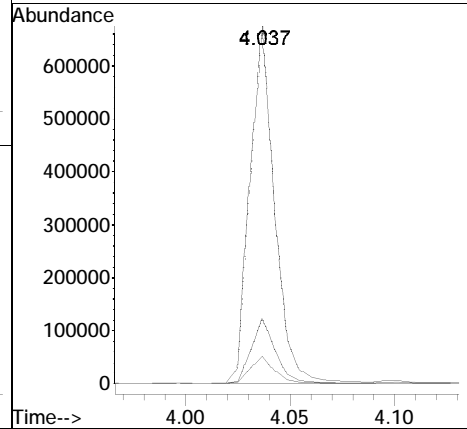
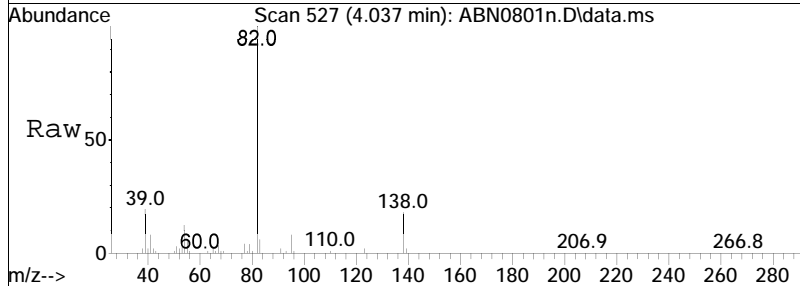
Tgt Ion	Resp	Lower	Upper
77	100		
123	52.9	41.4	62.0
65	13.4	11.0	16.4

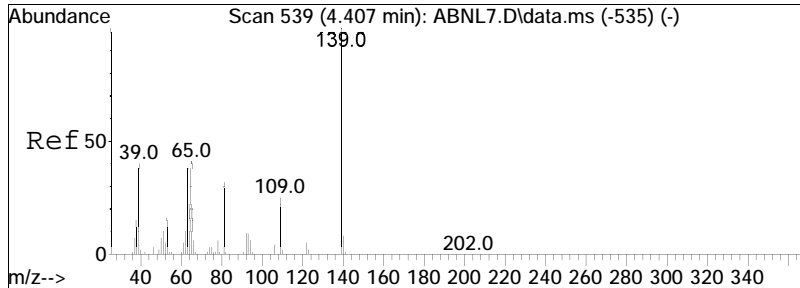




#21
 Isophorone
 Concen: 47.09 ug/ml
 RT: 4.037 min Scan# 527
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

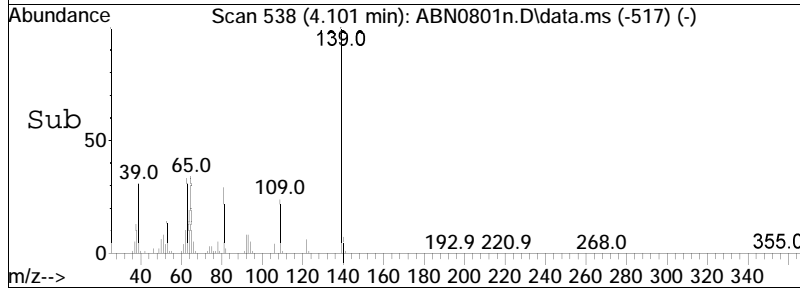
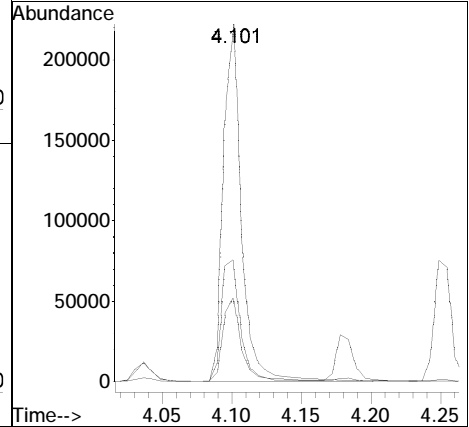
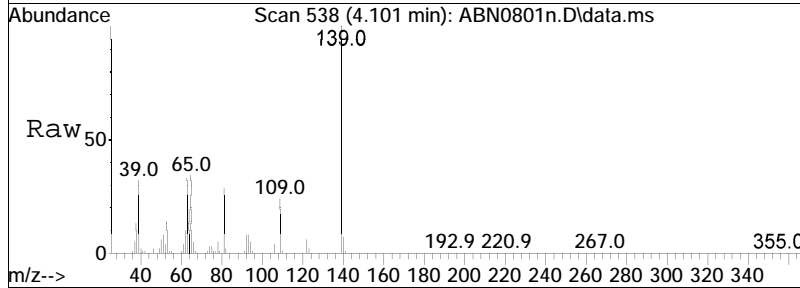
Tgt Ion	Resp	Lower	Upper
82	548002		
138	18.1	13.9	20.9
95	7.6	5.3	7.9

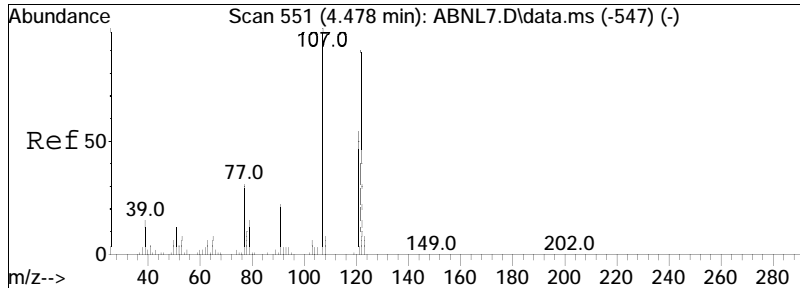




#22
 2-Nitrophenol
 Concen: 54.38 ug/ml
 RT: 4.101 min Scan# 538
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

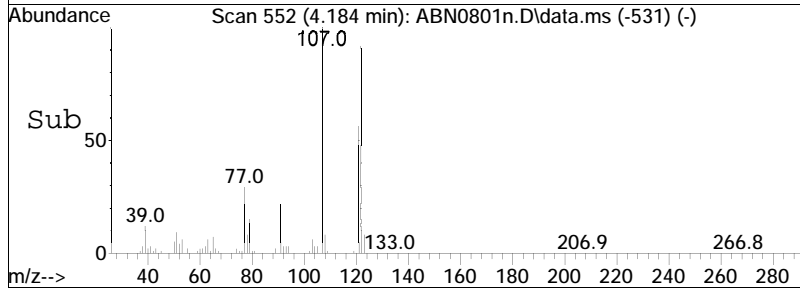
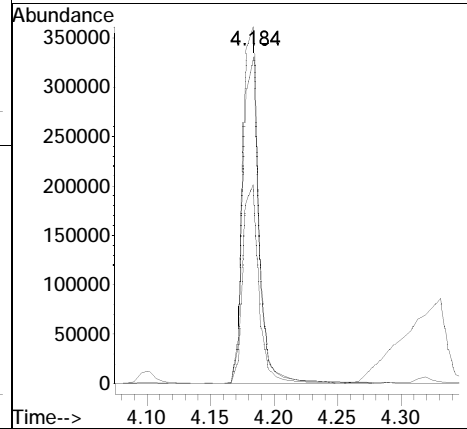
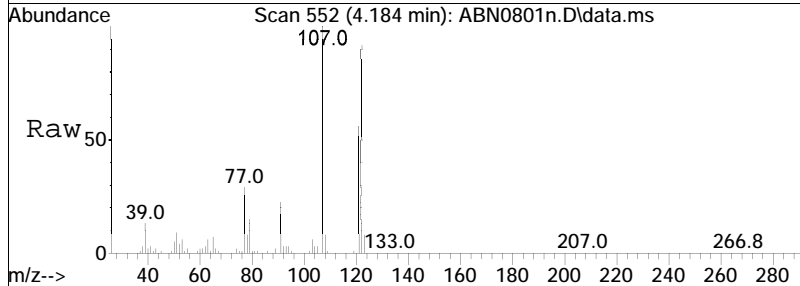
Tgt Ion	Resp	Lower	Upper
139	100		
109	23.8	17.5	26.3
65	36.4	33.2	49.8

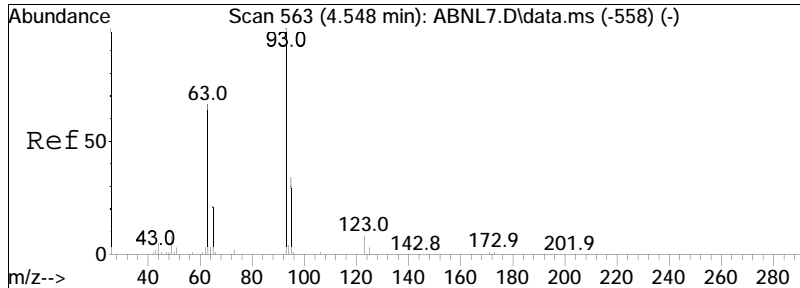




#23
 2,4-Dimethylphenol
 Concen: 51.11 ug/ml
 RT: 4.184 min Scan# 552
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

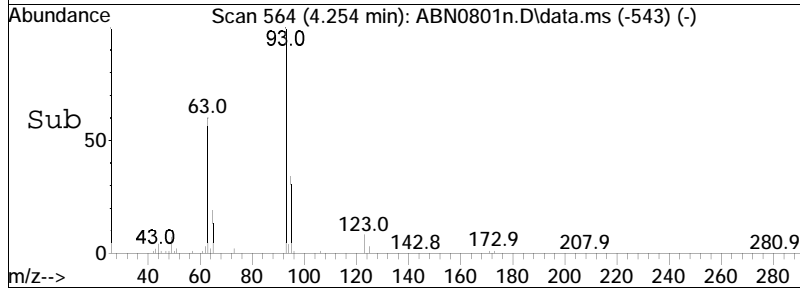
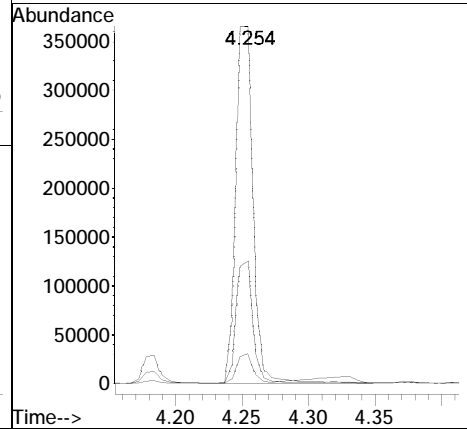
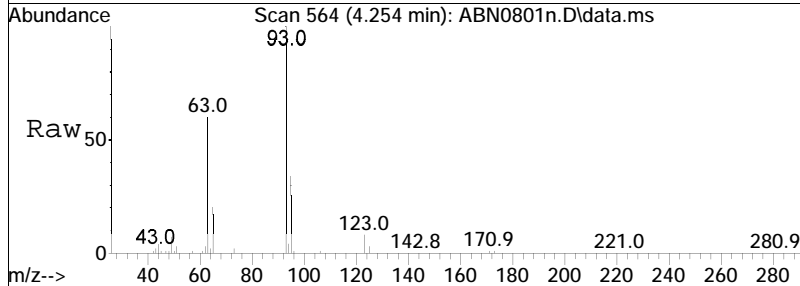
Tgt Ion	Resp	Lower	Upper
107	100		
121	54.8	43.4	65.2
122	89.2	73.7	110.5

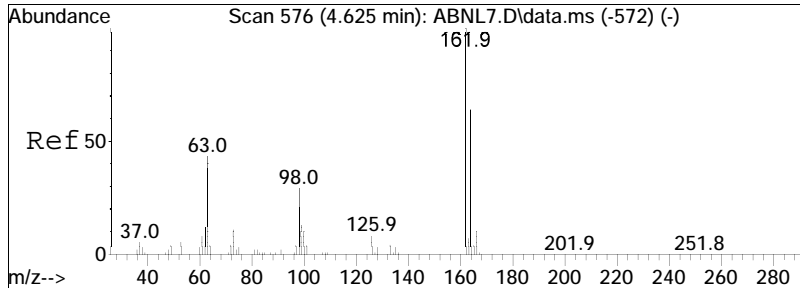




#24
 Bis(2-chloroethoxy)methane
 Concen: 47.82 ug/ml
 RT: 4.254 min Scan# 564
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

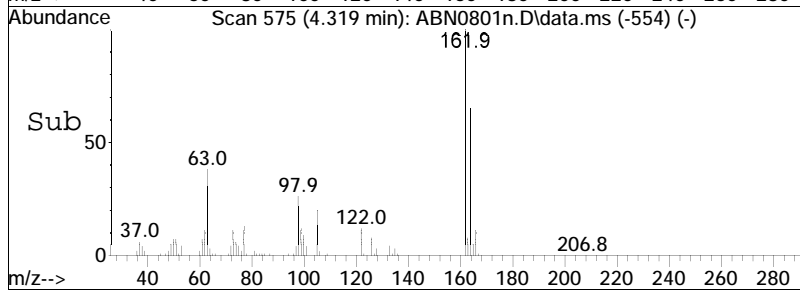
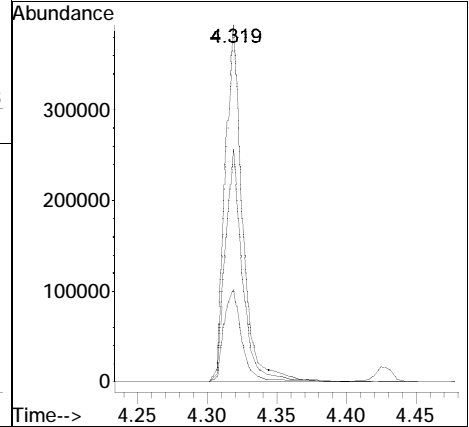
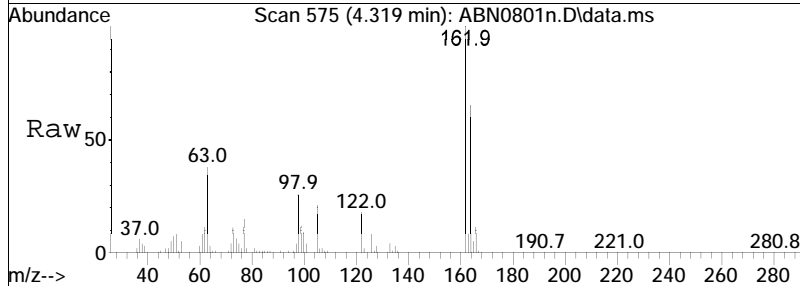
Tgt Ion:	93	Resp:	326869
Ion Ratio	100	Lower	Upper
93	100		
95	33.6	27.2	40.8
123	7.9	7.6	11.4

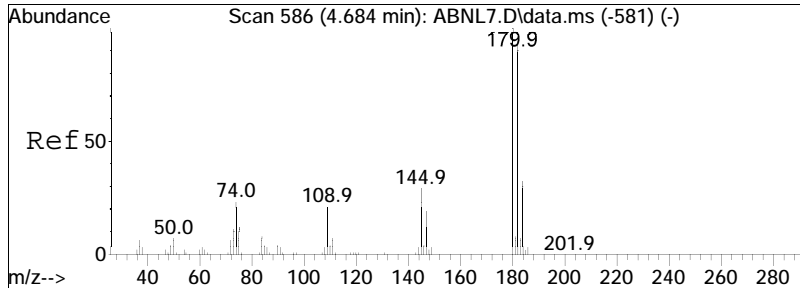




#25
 2,4-Dichlorophenol
 Concen: 54.32 ug/ml
 RT: 4.319 min Scan# 575
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

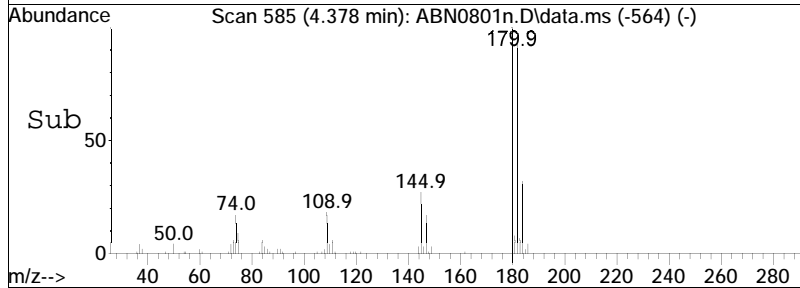
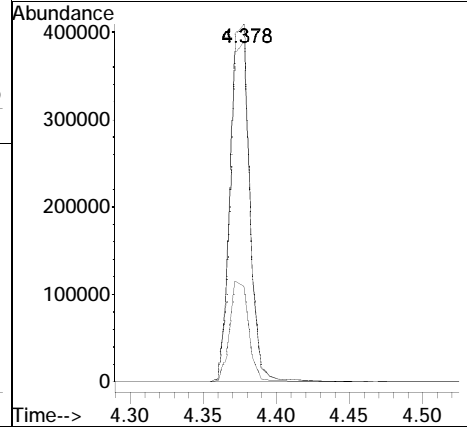
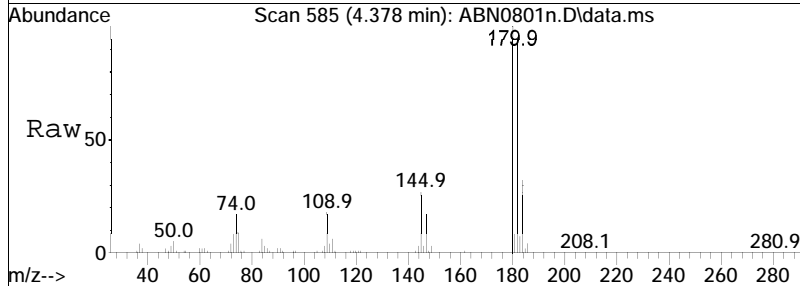
Tgt Ion	Ratio	Lower	Upper
162	100		
164	64.5	51.5	77.3
98	26.9	27.5	41.3#

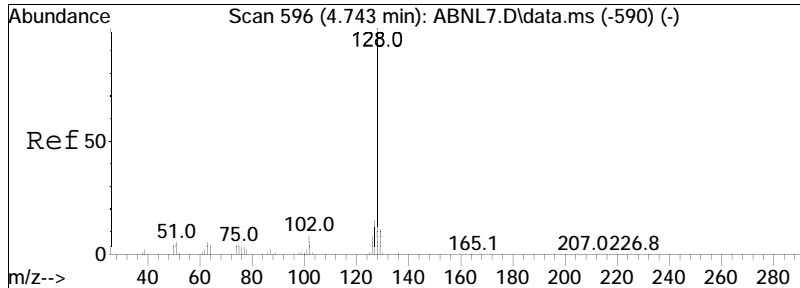




#26
 1,2,4-Trichlorobenzene
 Concen: 53.62 ug/ml
 RT: 4.378 min Scan# 585
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

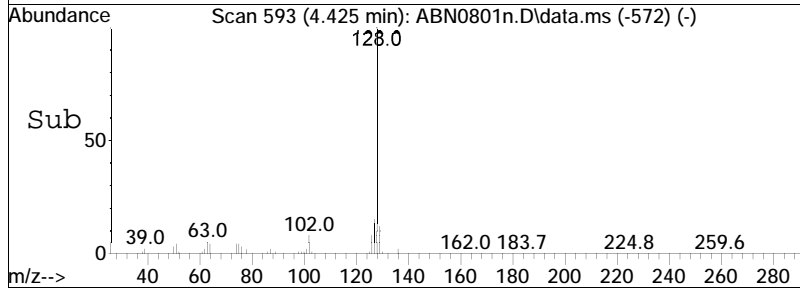
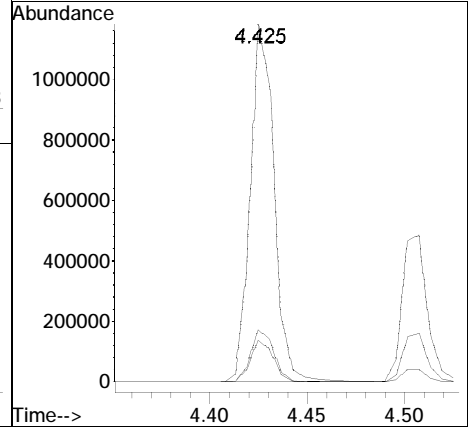
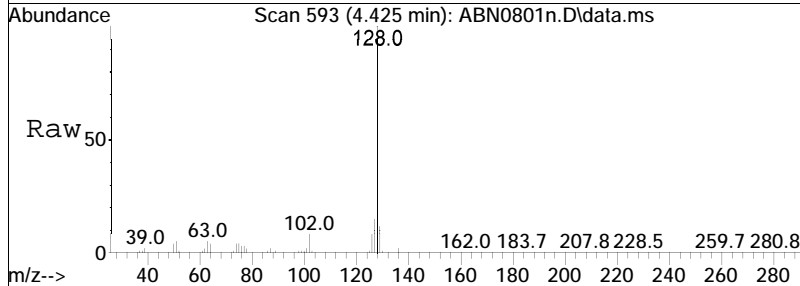
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	77.0	115.4
145	27.6	24.2	36.4

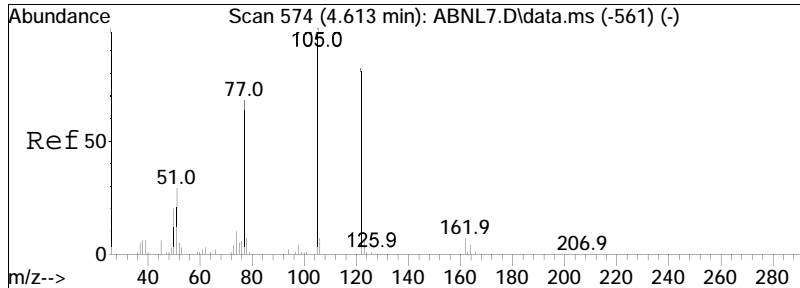




#36
 Naphthalene
 Concen: 53.81 ug/ml
 RT: 4.425 min Scan# 593
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

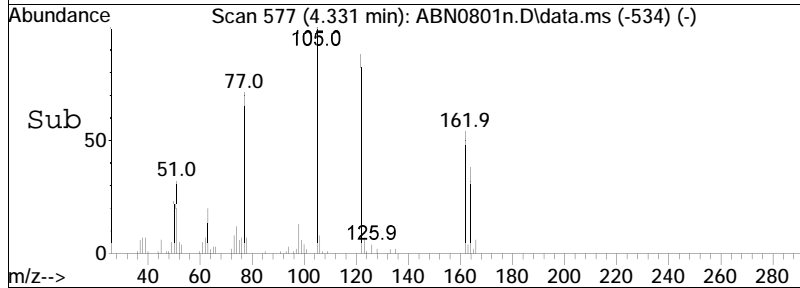
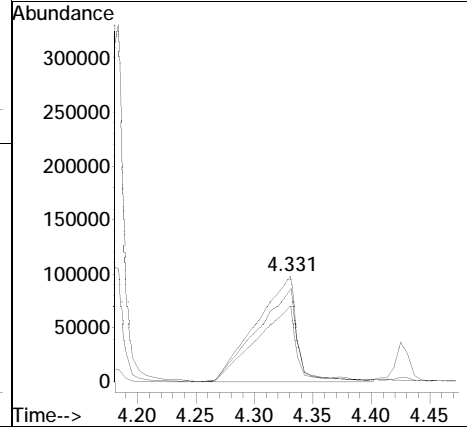
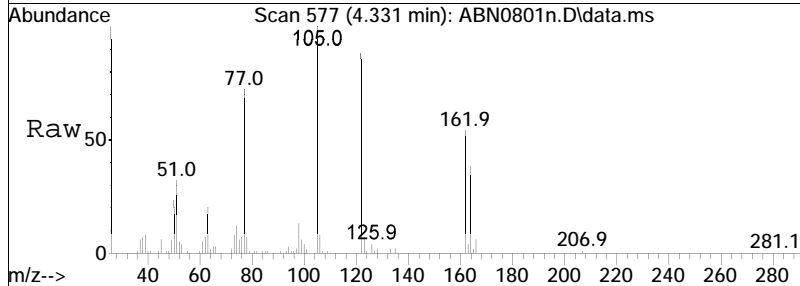
Tgt Ion	Resp	Lower	Upper
128	1005177		
129	11.4	9.4	14.2
127	14.4	11.6	17.4

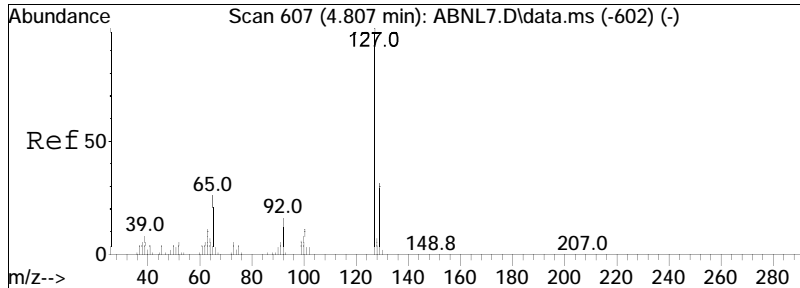




#37
 Benzoic Acid
 Concen: 54.26 ug/ml
 RT: 4.331 min Scan# 577
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

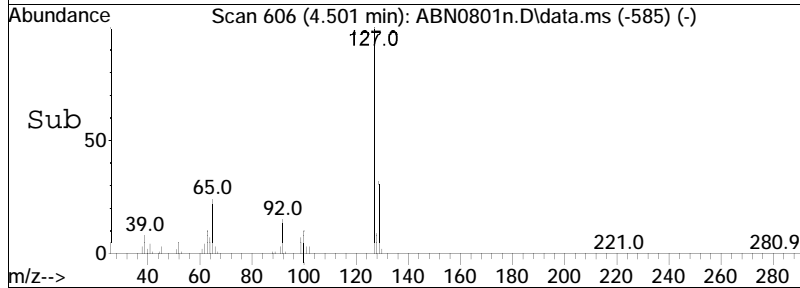
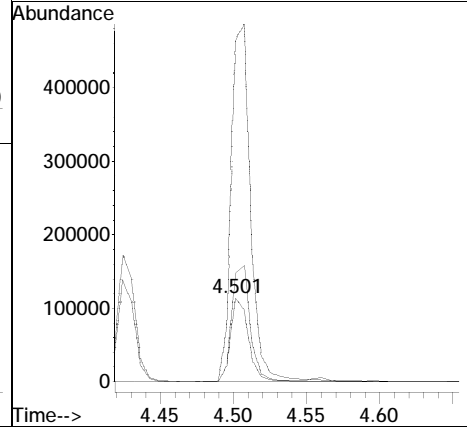
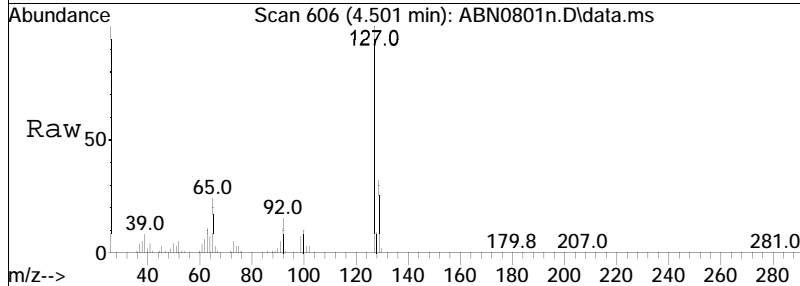
Tgt Ion	Ratio	Lower	Upper
105	100		
122	86.0	70.9	106.3
77	69.7	55.9	83.9

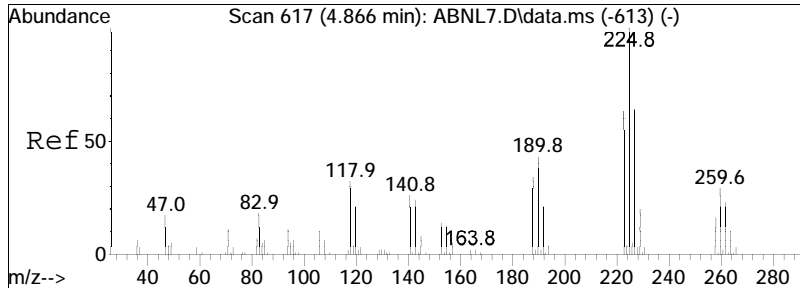




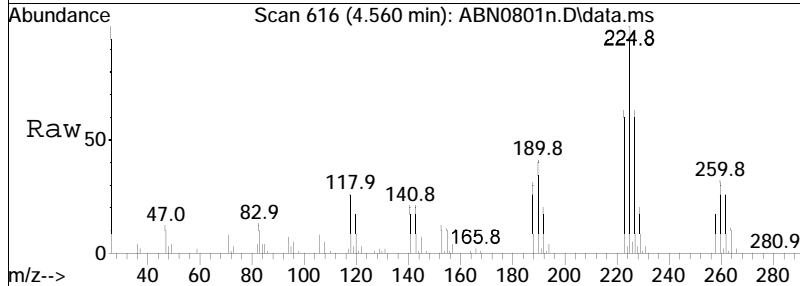
#38
 4-Chloroaniline
 Concen: 52.41 ug/ml
 RT: 4.501 min Scan# 606
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

Tgt Ion:	Resp:	Lower	Upper
65	100		
127	446.1	303.0	454.6
129	140.7	99.3	148.9

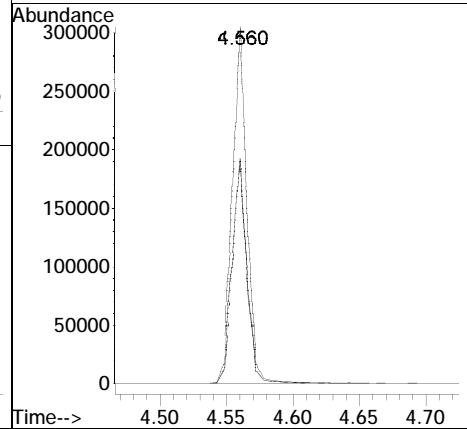
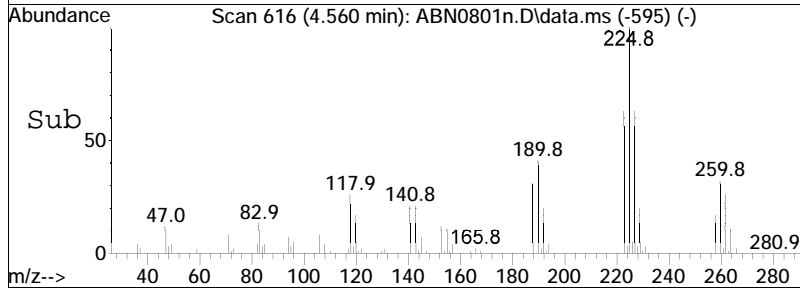


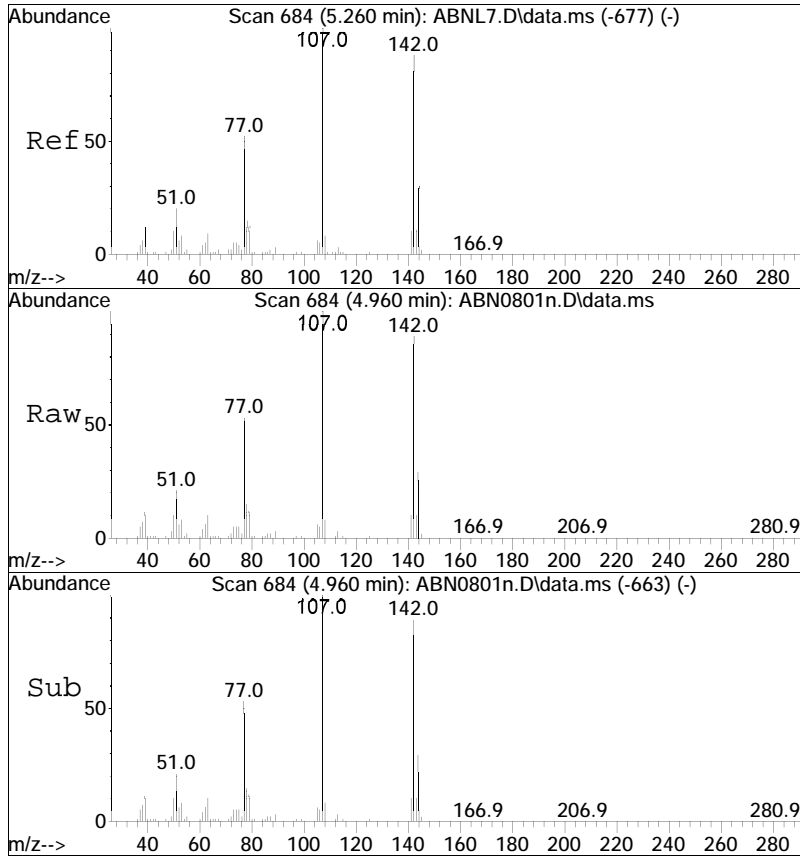


#39
 Hexachlorobutadiene
 Concen: 59.51 ug/ml
 RT: 4.560 min Scan# 616
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm



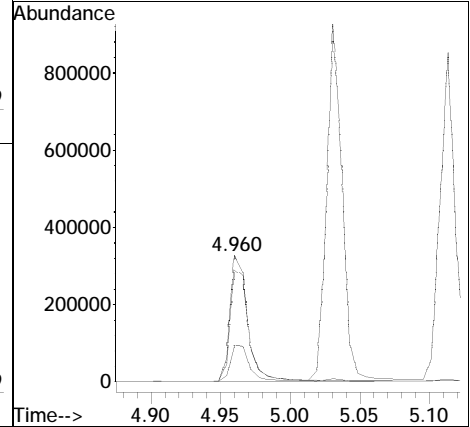
Tgt Ion:	225	Resp:	227042
Ion Ratio	100	Lower	Upper
223	62.9	50.9	76.3
227	63.8	50.6	75.8

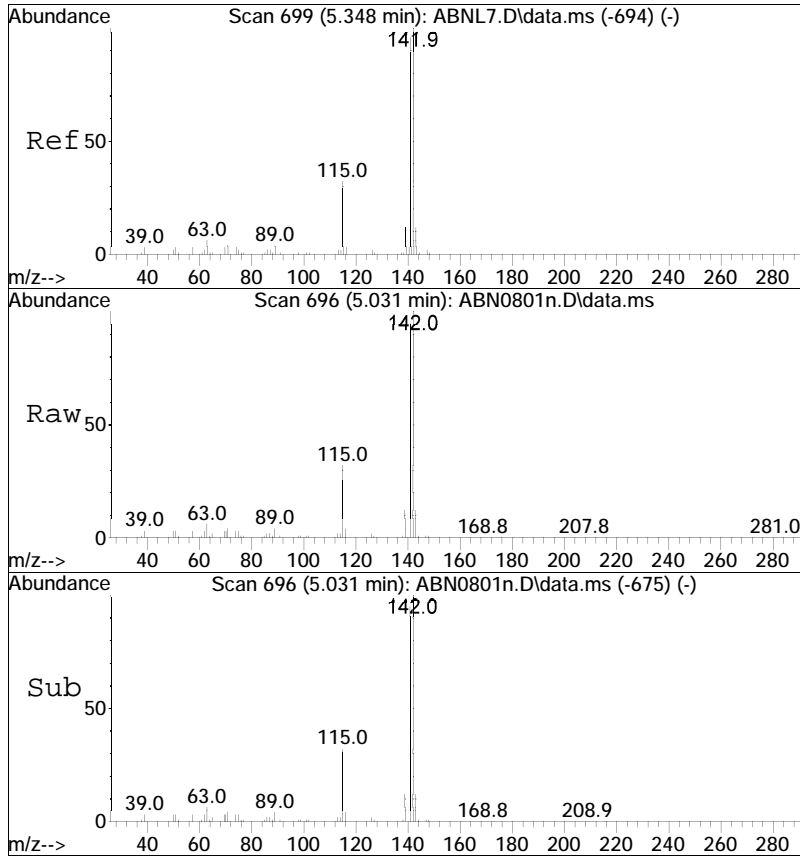




#40
 p-Chloro-m-cresol
 Concen: 55.34 ug/ml
 RT: 4.960 min Scan# 684
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

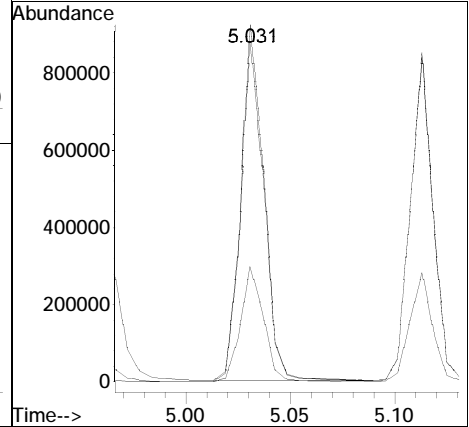
Tgt Ion	Resp	Lower	Upper
107	296207		
107	100		
144	30.2	22.6	33.8
142	90.4	69.7	104.5

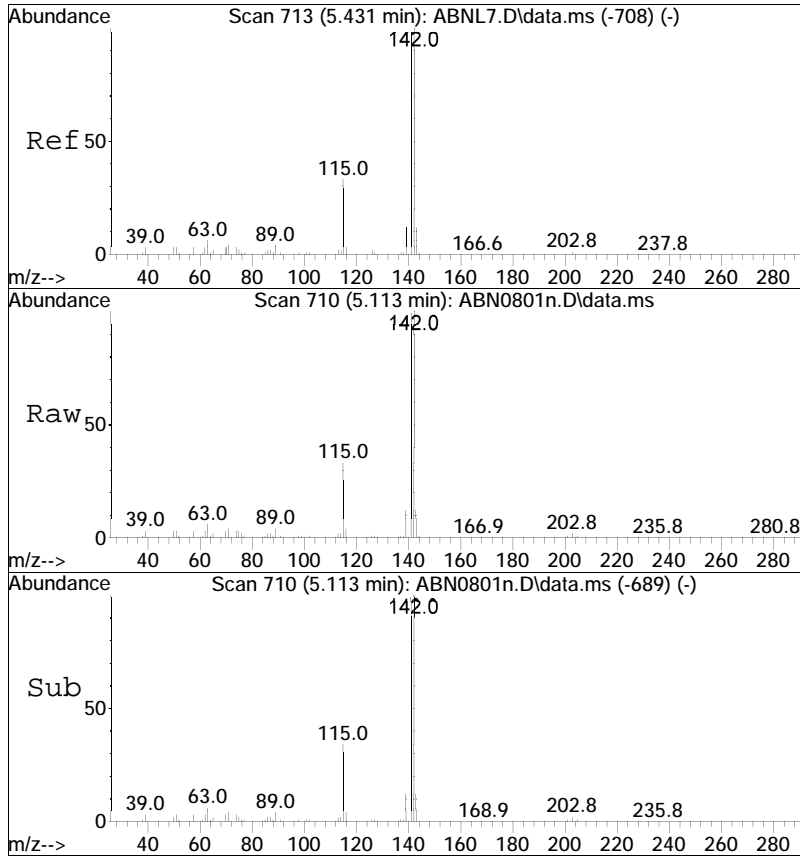




#41
 2-Methylnaphthalene
 Concen: 56.20 ug/ml
 RT: 5.031 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

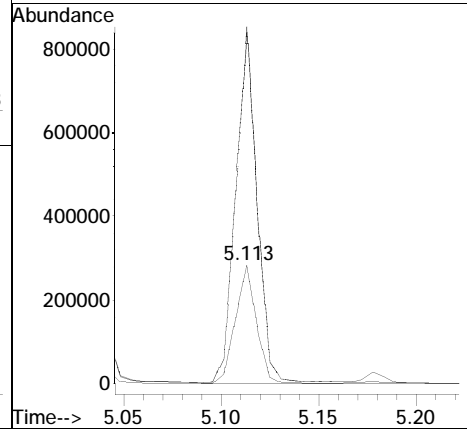
Tgt Ion	Ratio	Lower	Upper
142	100		
141	96.6	75.7	113.5
115	32.2	24.4	36.6

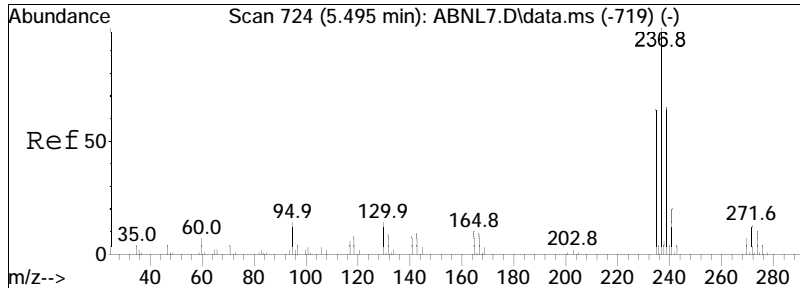




#42
 1-Methylnaphthalene
 Concen: 52.18 ug/ml
 RT: 5.113 min Scan# 710
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

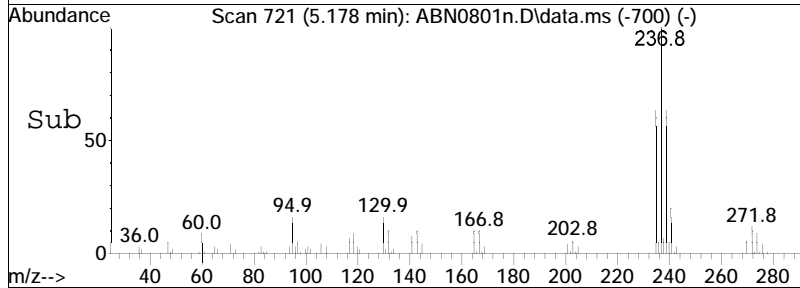
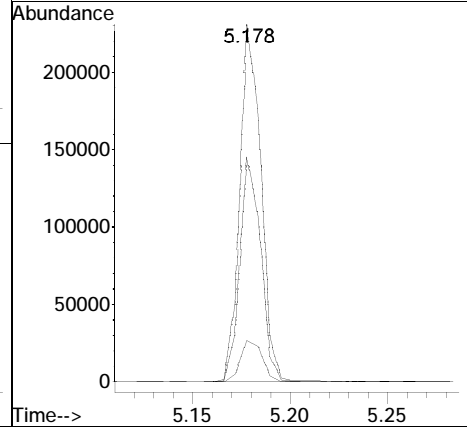
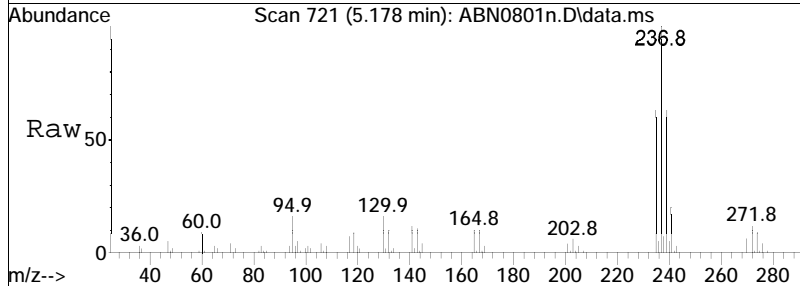
Tgt Ion	Resp	Lower	Upper
115	100		
141	299.2	248.3	372.5
142	298.4	258.0	387.0

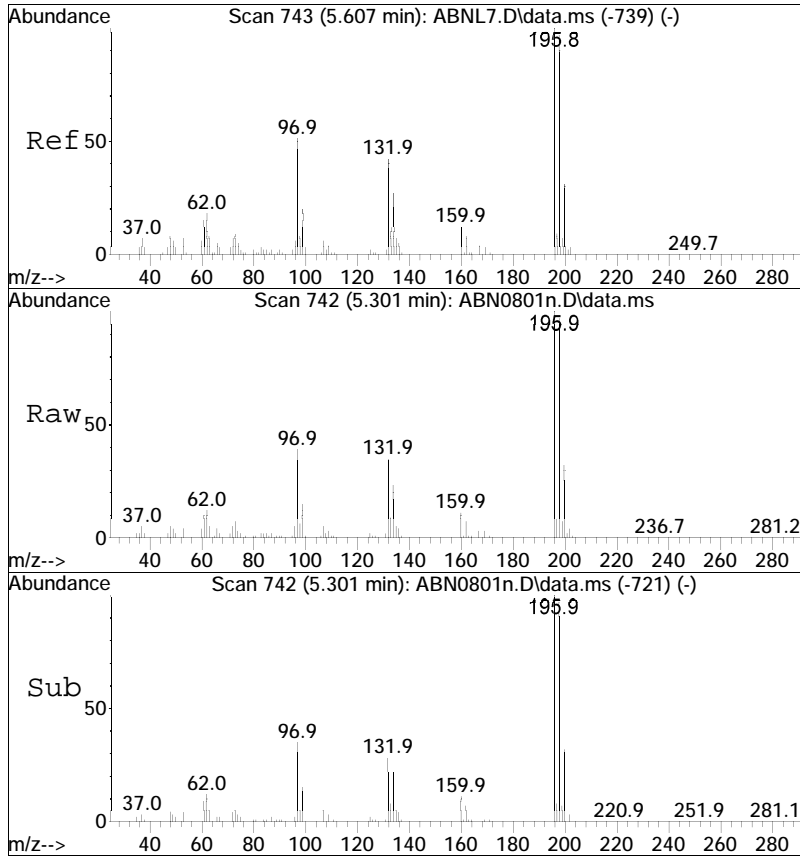




#43
 Hexachlorocyclopentadiene
 Concen: 46.19 ug/ml
 RT: 5.178 min Scan# 721
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

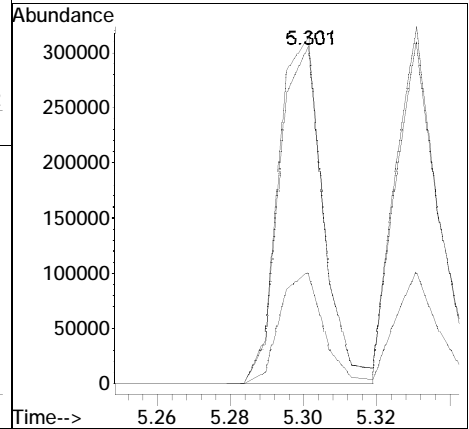
Tgt Ion	Resp	Lower	Upper
237	100		
235	62.2	50.8	76.2
272	12.2	10.4	15.6

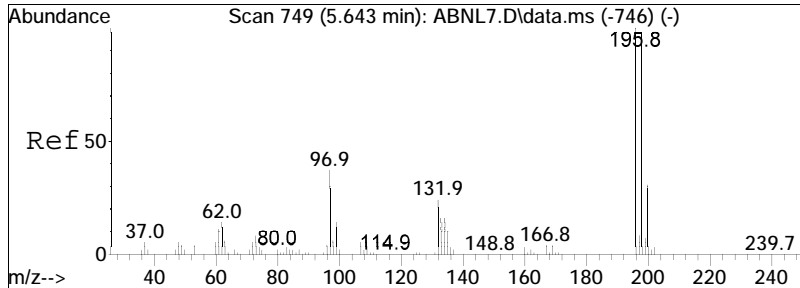




#44
 2,4,6-Trichlorophenol
 Concen: 58.23 ug/ml
 RT: 5.301 min Scan# 742
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

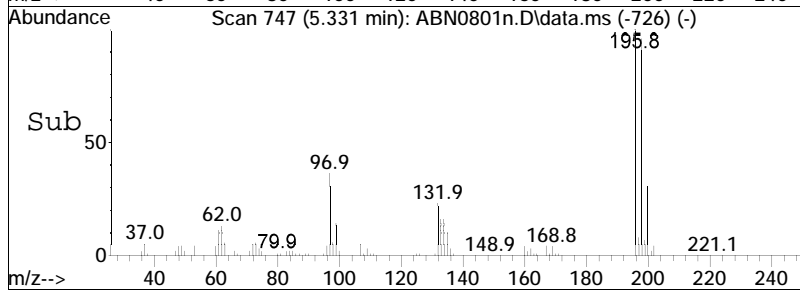
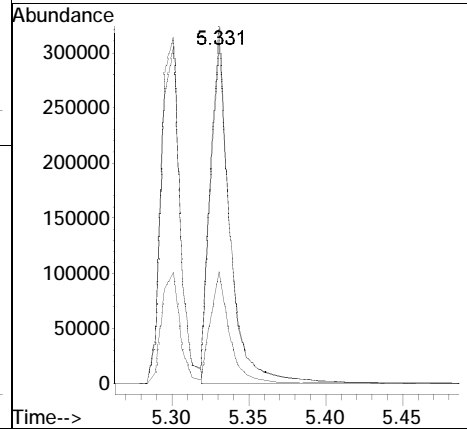
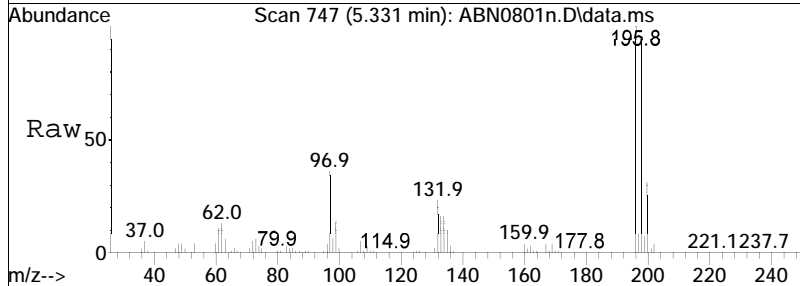
Tgt Ion	Resp	Lower	Upper
196	100		
198	95.7	76.8	115.2
200	31.3	25.0	37.4

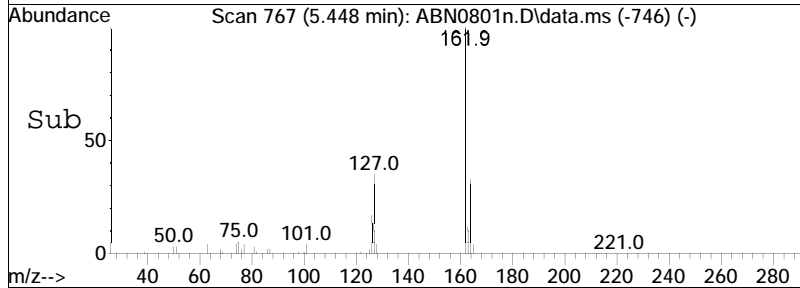
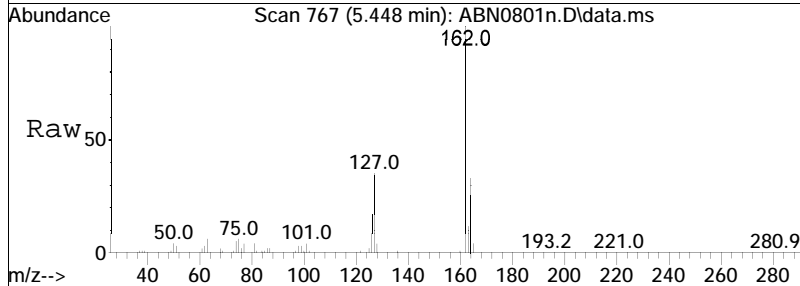
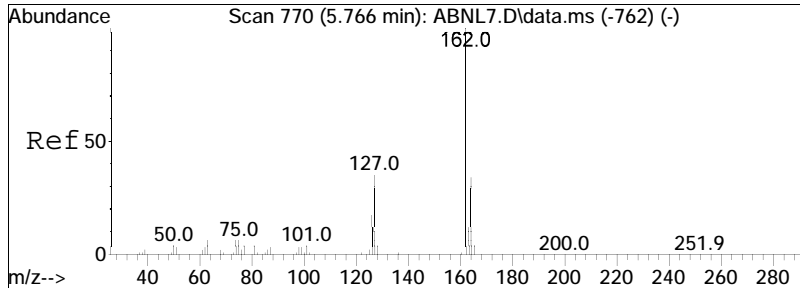




#45
 2,4,5-Trichlorophenol
 Concen: 55.89 ug/ml
 RT: 5.331 min Scan# 747
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

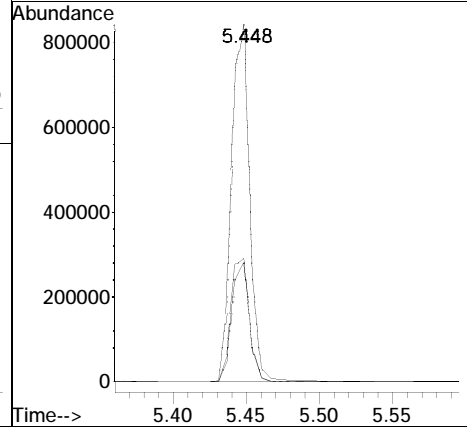
Tgt Ion	Resp	Lower	Upper
196	100		
200	31.4	25.4	38.0
198	97.4	79.1	118.7

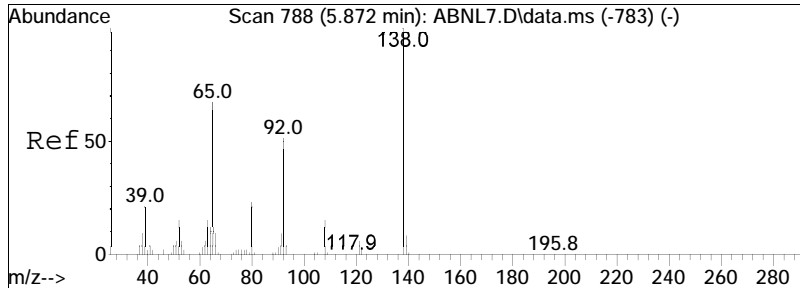




#47
 2-Chloronaphthalene
 Concen: 53.84 ug/ml
 RT: 5.448 min Scan# 767
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

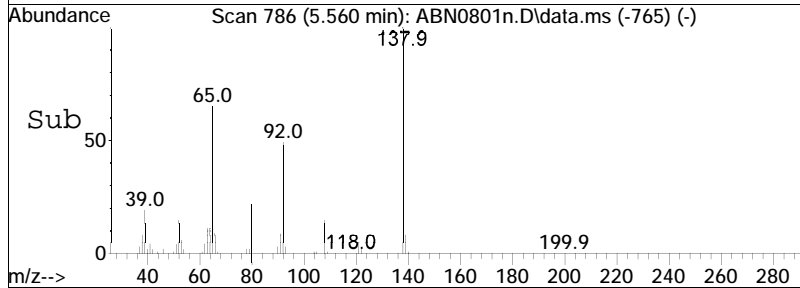
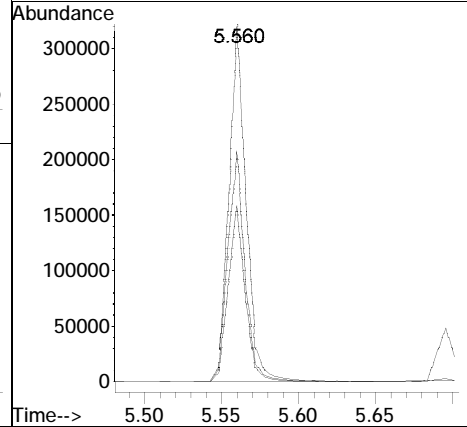
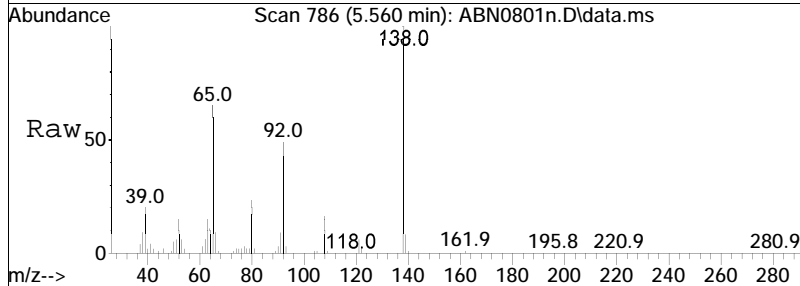
Tgt Ion	Ratio	Lower	Upper
162	100		
127	35.6	31.0	46.6
164	32.9	27.0	40.6

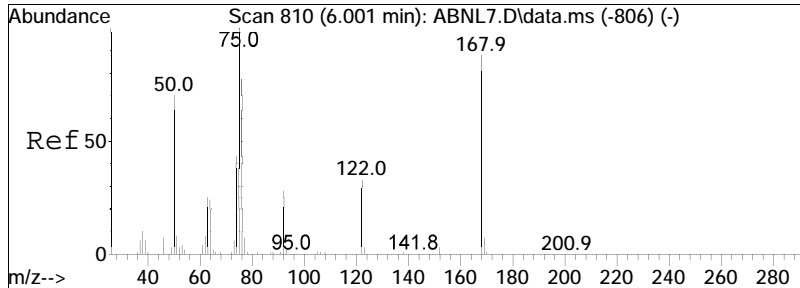




#48
 2-Nitroaniline
 Concen: 55.02 ug/ml
 RT: 5.560 min Scan# 786
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

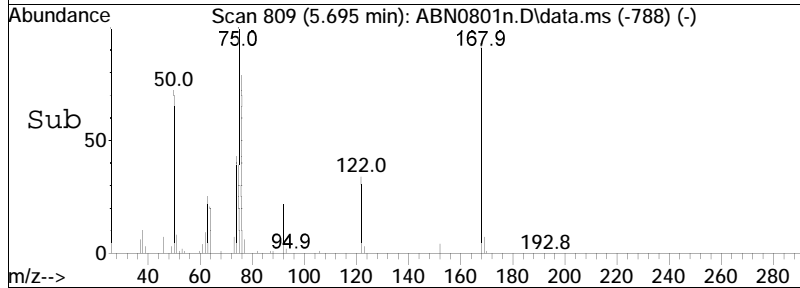
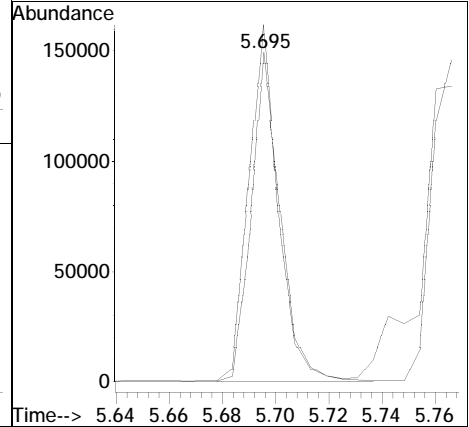
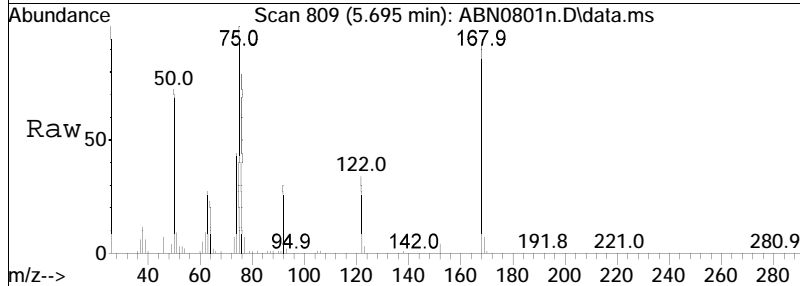
Tgt Ion	Ratio	Lower	Upper
138	100		
92	49.4	44.7	67.1
65	65.0	62.6	94.0

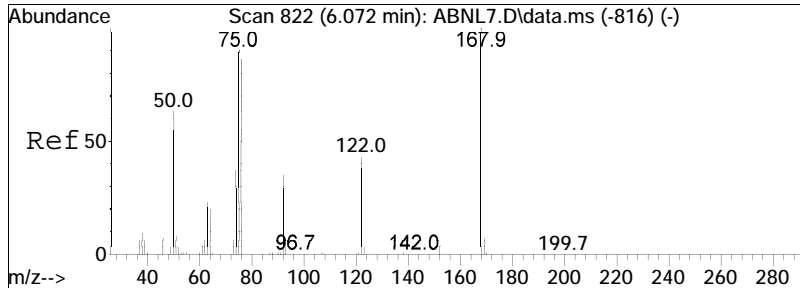




#49
 1,4-Dinitrobenzene
 Concen: 56.15 ug/ml
 RT: 5.695 min Scan# 809
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

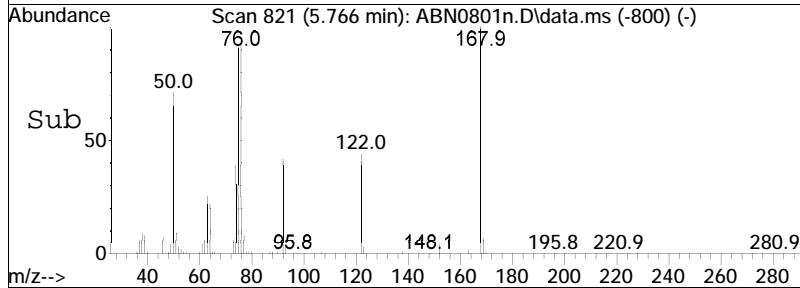
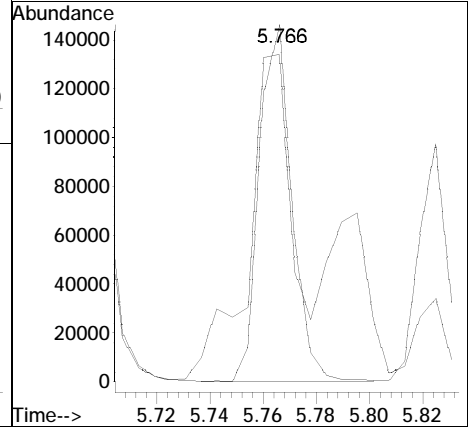
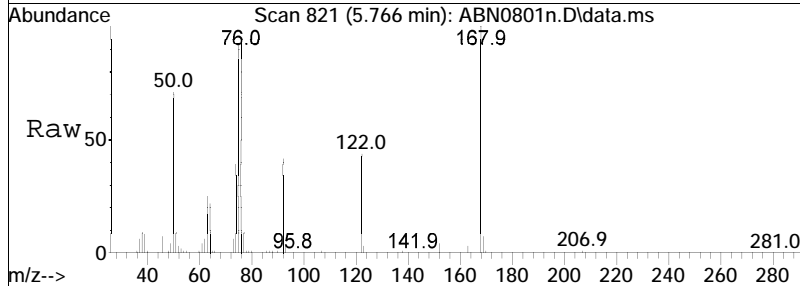
Tgt Ion	Resp	Lower	Upper
168	113305		
168	100		
75	109.6	99.9	149.9

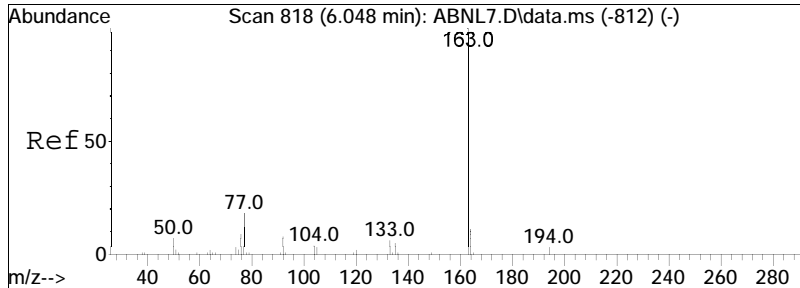




#50
 1,3-Dinitrobenzene
 Concen: 53.89 ug/ml
 RT: 5.766 min Scan# 821
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

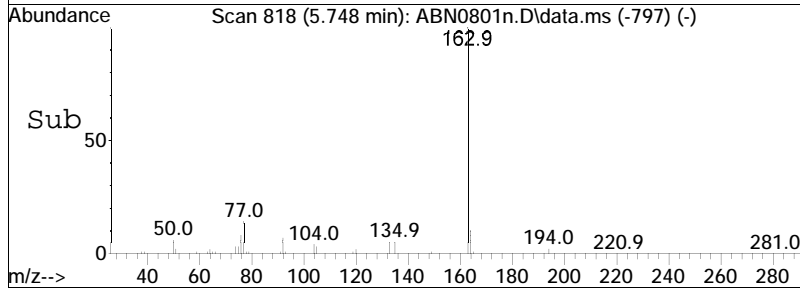
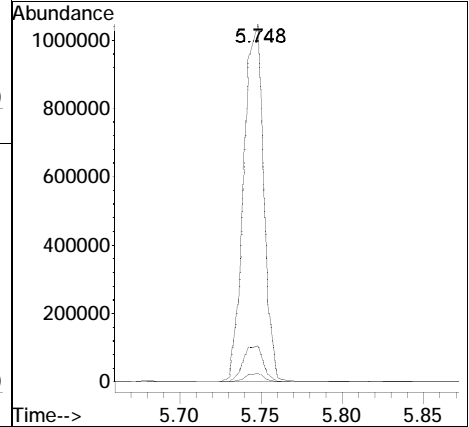
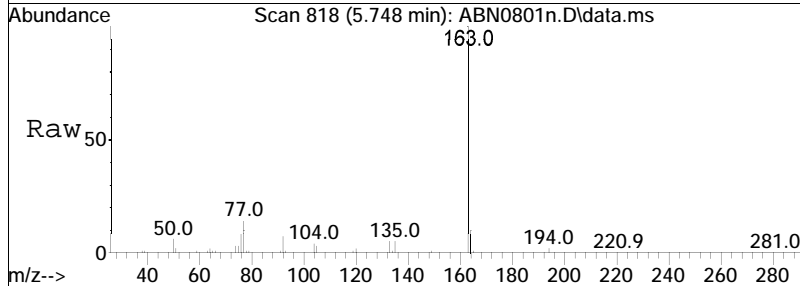
Tgt Ion: 168 Resp: 124486
 Ion Ratio Lower Upper
 168 100
 75 122.8 102.7 154.1

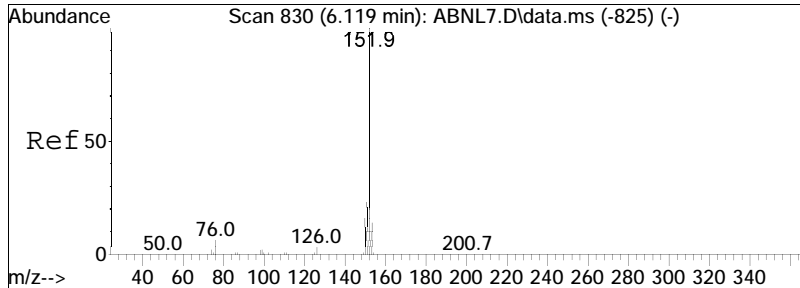




#51
 Dimethyl phthalate
 Concen: 53.65 ug/ml
 RT: 5.748 min Scan# 818
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

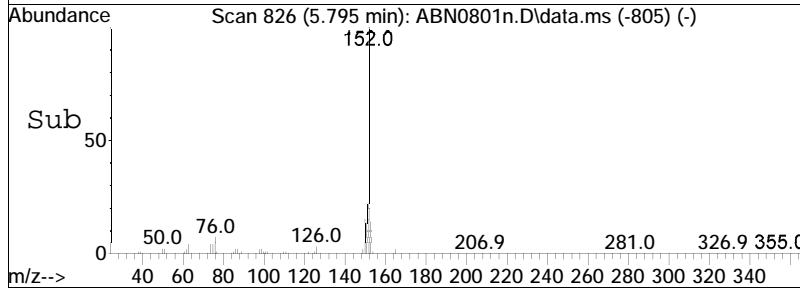
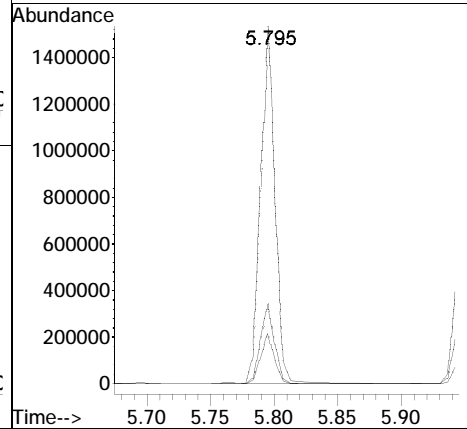
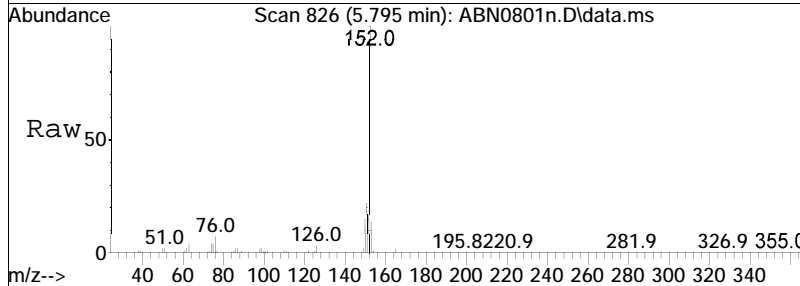
Tgt Ion	Resp	Lower	Upper
163	100		
194	2.4	2.0	3.0
164	10.3	8.6	12.8

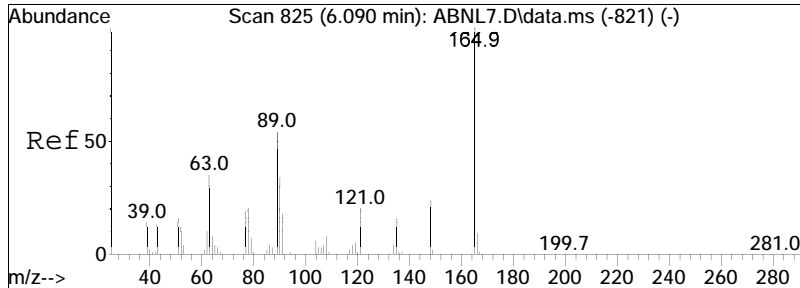




#52
 Acenaphthylene
 Concen: 54.38 ug/ml
 RT: 5.795 min Scan# 826
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

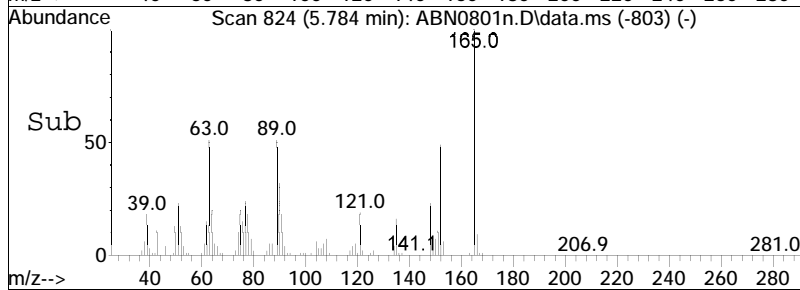
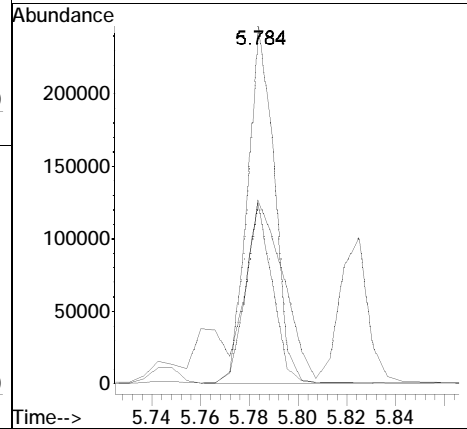
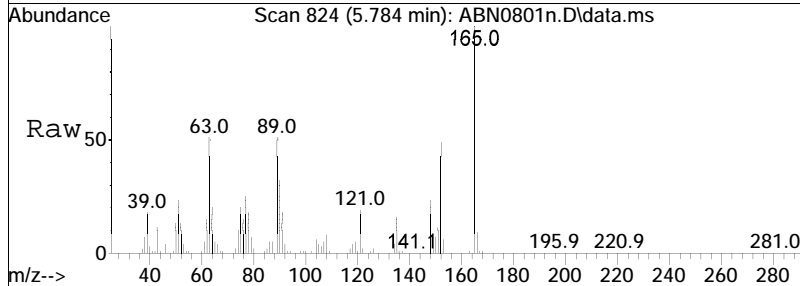
Tgt Ion	Resp	Lower	Upper
152	100		
151	21.9	17.5	26.3
153	13.5	11.3	16.9

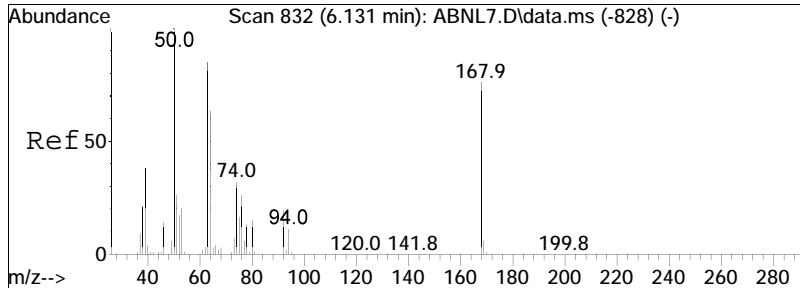




#53
 2,6-Dinitrotoluene
 Concen: 55.29 ug/ml
 RT: 5.784 min Scan# 824
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

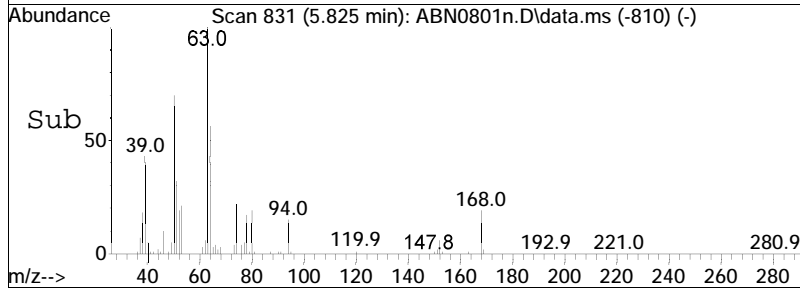
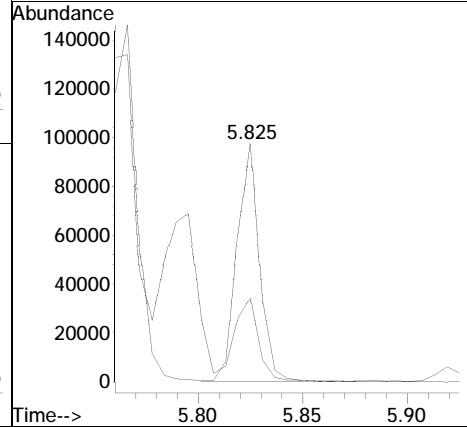
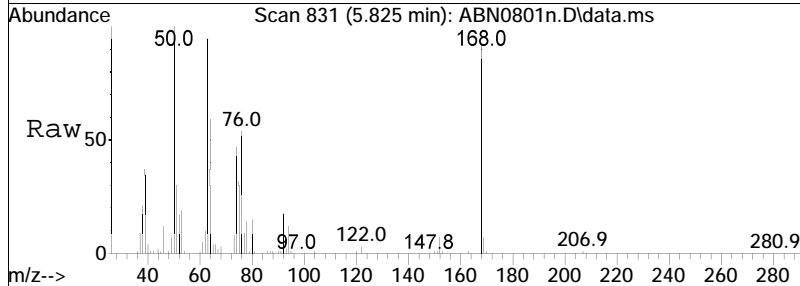
Tgt Ion	Ratio	Lower	Upper
165	100		
89	50.5	39.0	58.6
63	94.9	38.5	57.7#

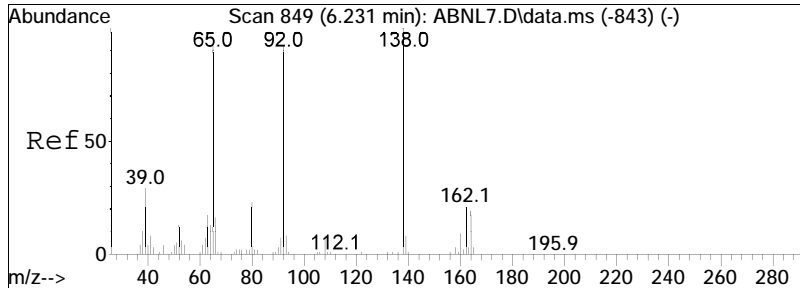




#54
 1,2-Dinitrobenzene
 Concen: 51.65 ug/ml
 RT: 5.825 min Scan# 831
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

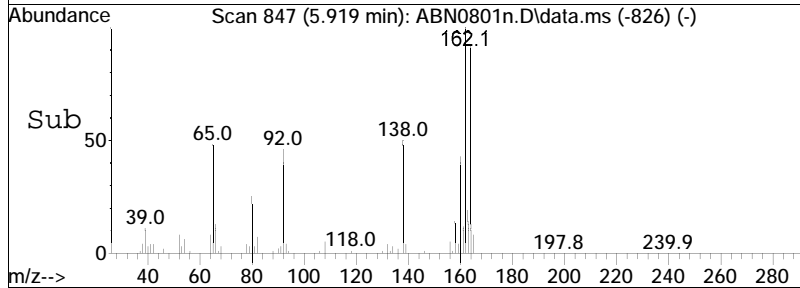
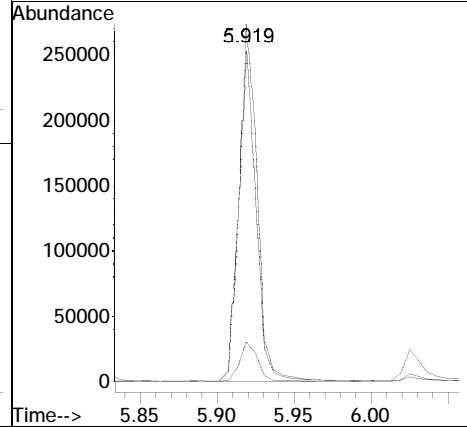
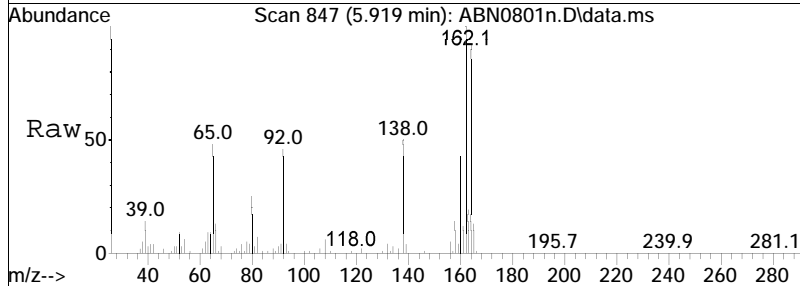
Tgt Ion: 168 Resp: 72790
 Ion Ratio Lower Upper
 168 100
 75 37.4 90.4 135.6#

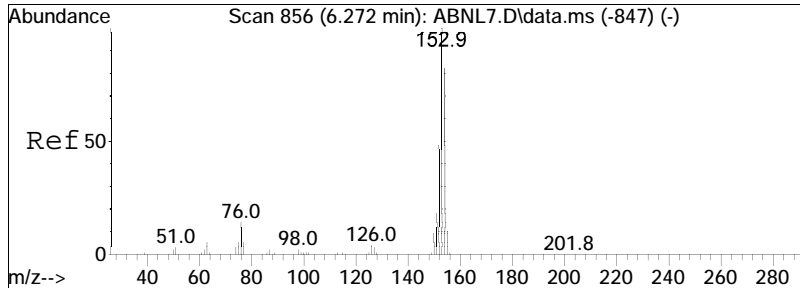




#64
 3-Nitroaniline
 Concen: 55.74 ug/ml
 RT: 5.919 min Scan# 847
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

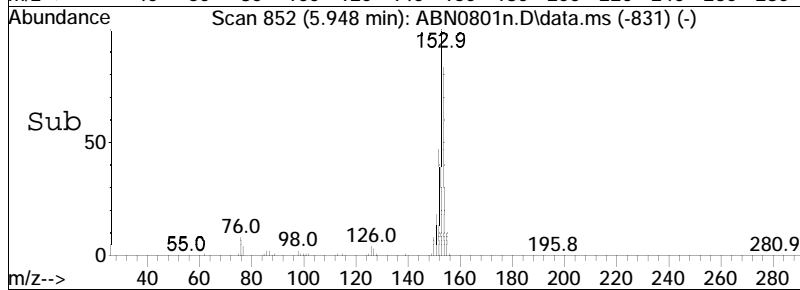
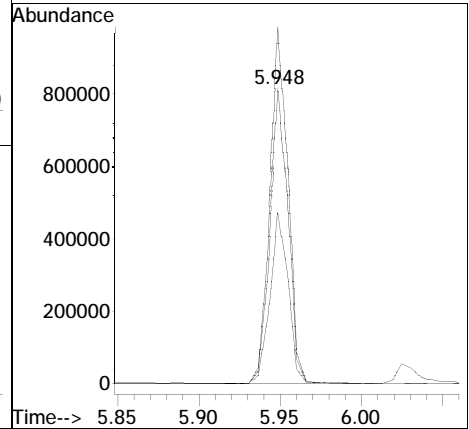
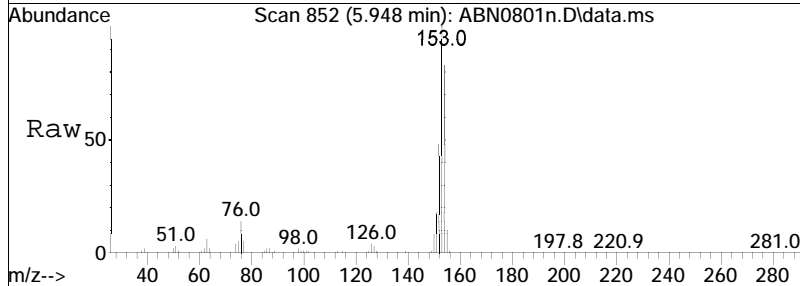
Tgt Ion	Resp	Lower	Upper
138	220015		
138	100		
92	88.9	80.2	120.4
108	11.2	7.2	10.8#

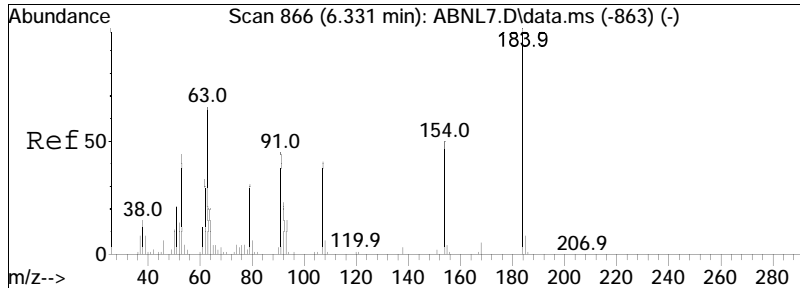




#65
 Acenaphthene
 Concen: 50.89 ug/ml
 RT: 5.948 min Scan# 852
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

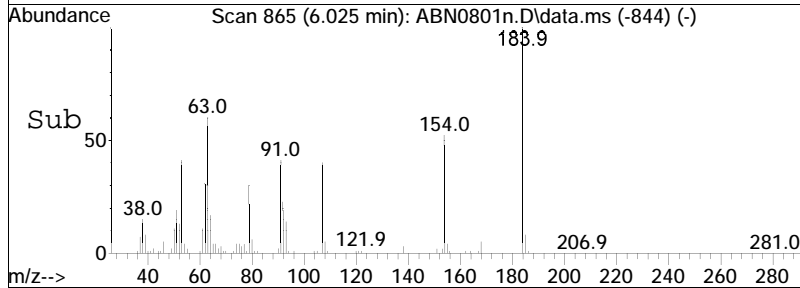
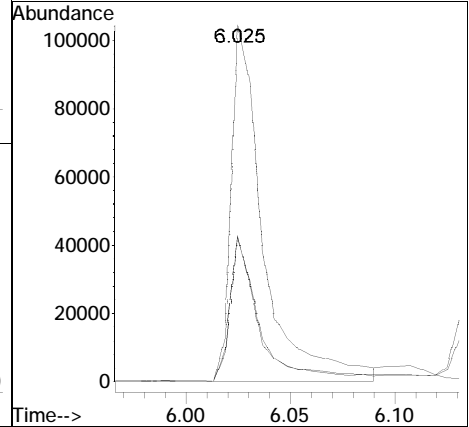
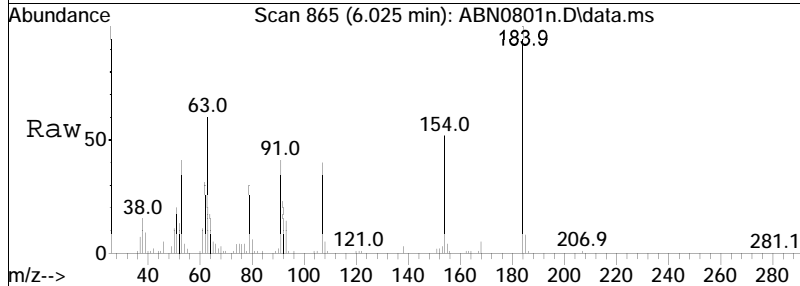
Tgt Ion	Resp	Lower	Upper
154	100		
153	121.7	95.8	143.8
152	57.6	46.3	69.5

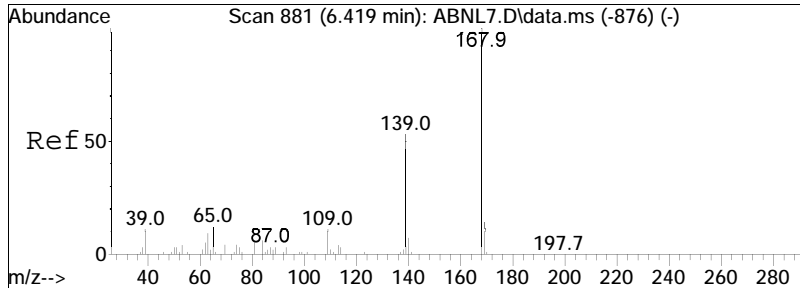




#66
 2,4-Dinitrophenol
 Concen: 51.12 ug/ml
 RT: 6.025 min Scan# 865
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

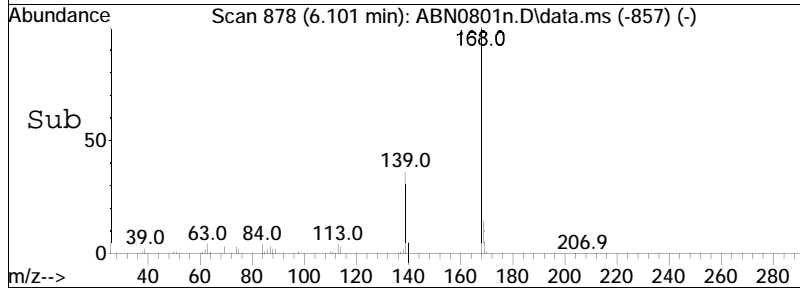
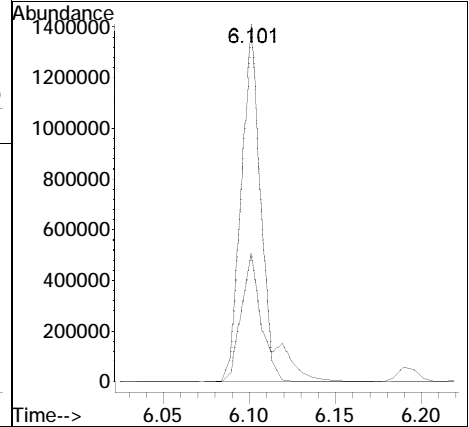
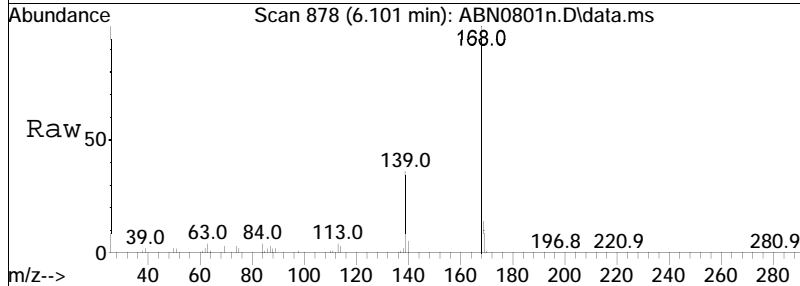
Tgt Ion	Ratio	Lower	Upper
184	100		
107	38.2	32.2	48.2
91	35.6	36.4	54.6#

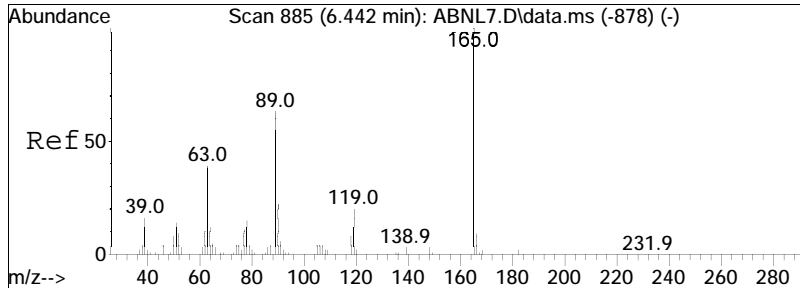




#67
 Dibenzofuran
 Concen: 55.28 ug/ml
 RT: 6.101 min Scan# 878
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

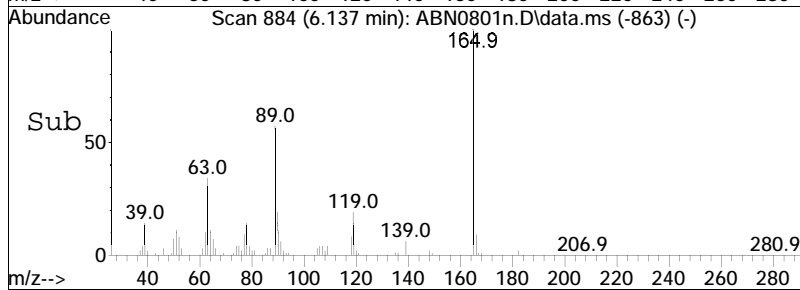
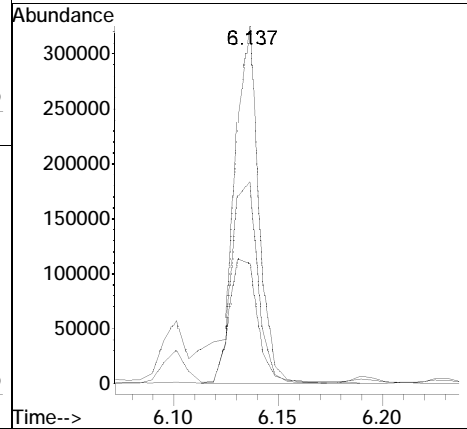
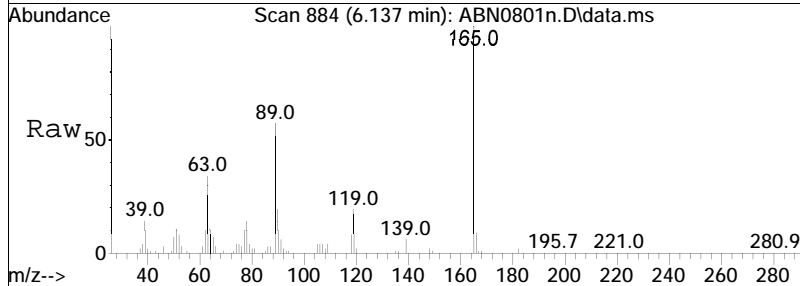
Tgt Ion: 168 Resp: 1063977
 Ion Ratio Lower Upper
 168 100
 139 49.4 44.5 66.7

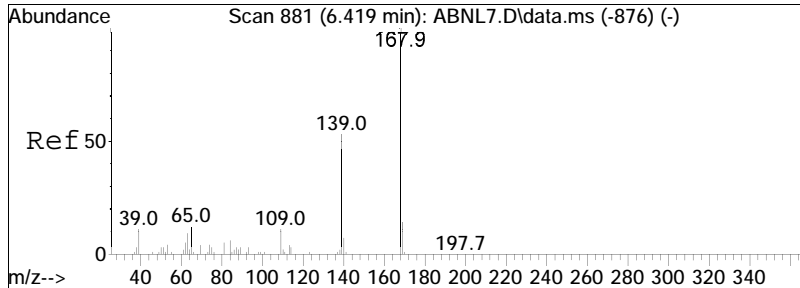




#68
 2,4-Dinitrotoluene
 Concen: 54.31 ug/ml
 RT: 6.137 min Scan# 884
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

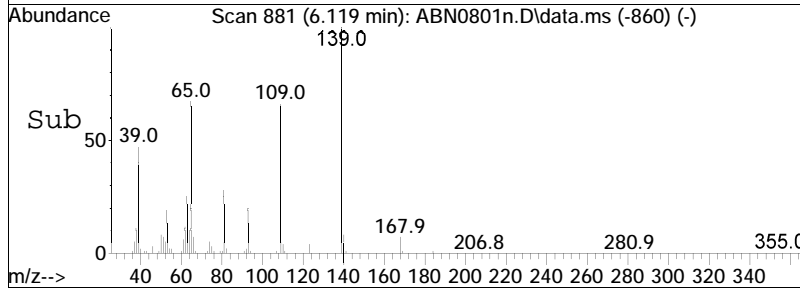
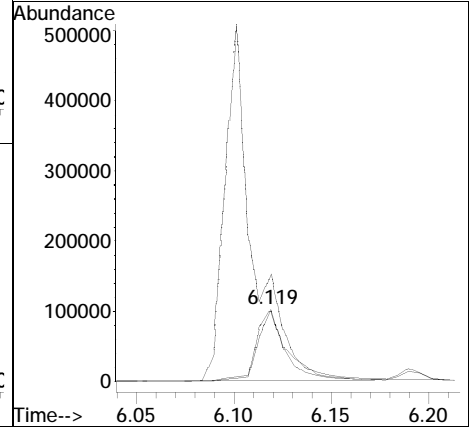
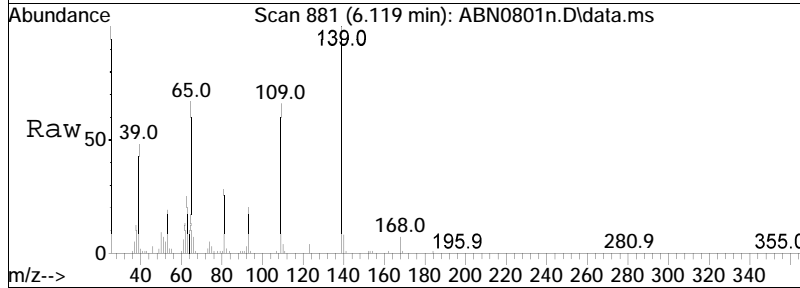
Tgt Ion	Ratio	Lower	Upper
165	100		
89	61.5	58.8	88.2
63	45.6	56.5	84.7#

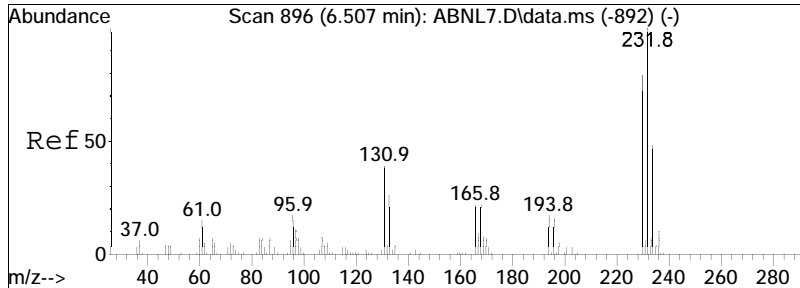




#69
 4-Nitrophenol
 Concen: 48.32 ug/ml
 RT: 6.119 min Scan# 881
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

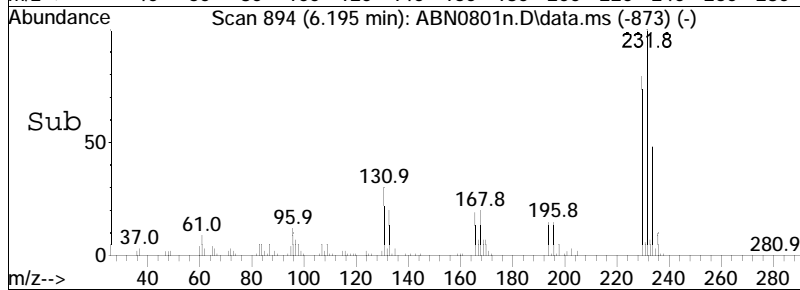
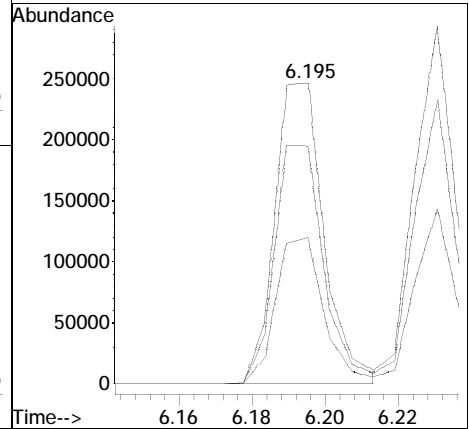
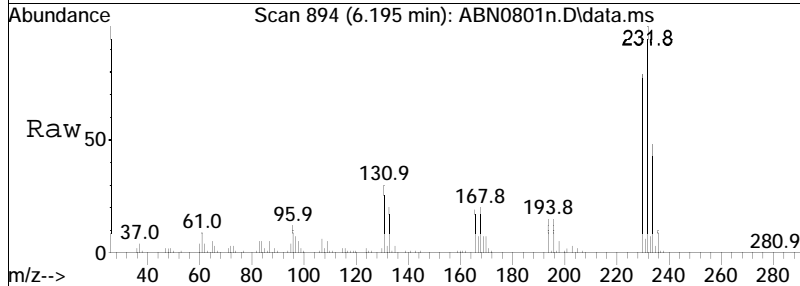
Tgt Ion	Resp	Lower	Upper
65	100		
109	88.1	52.0	78.0#
139	454.3	268.1	402.1#

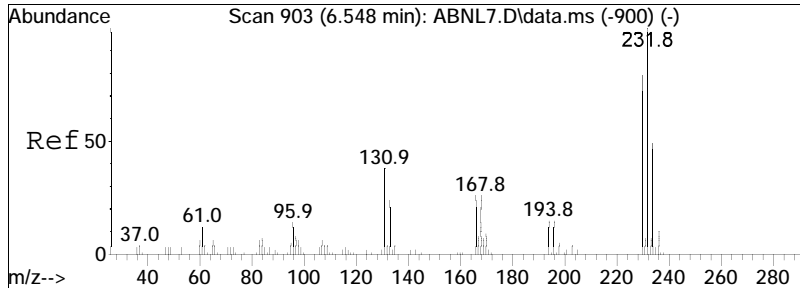




#70
 2,3,5,6-Tetrachlorophenol
 Concen: 57.44 ug/ml
 RT: 6.195 min Scan# 894
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

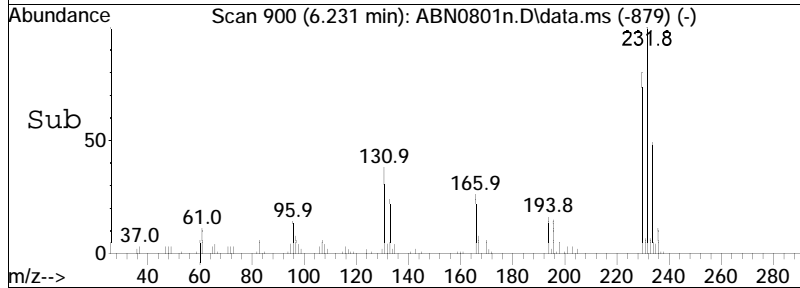
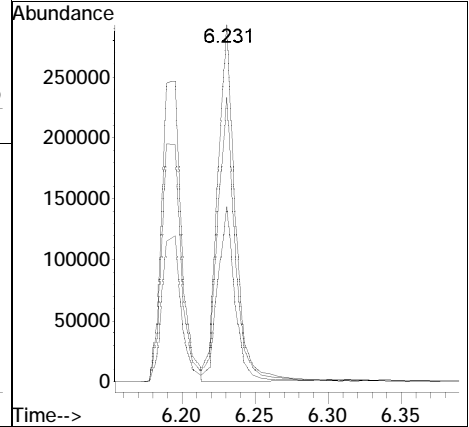
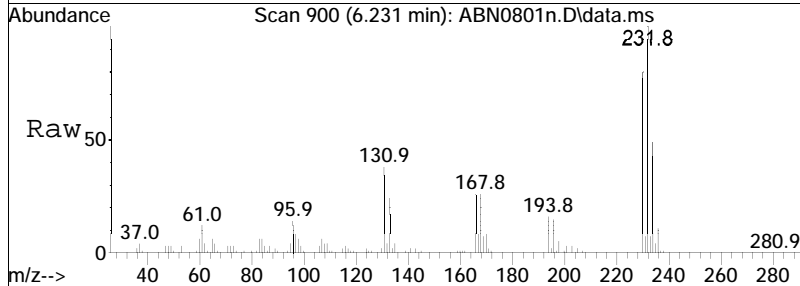
Tgt Ion	Ratio	Lower	Upper
232	100		
230	79.2	62.8	94.2
234	47.7	38.6	58.0

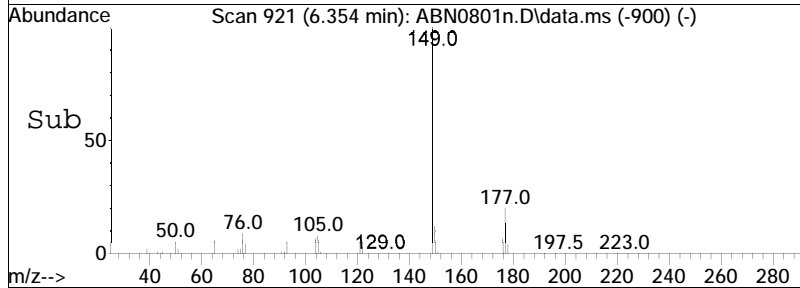
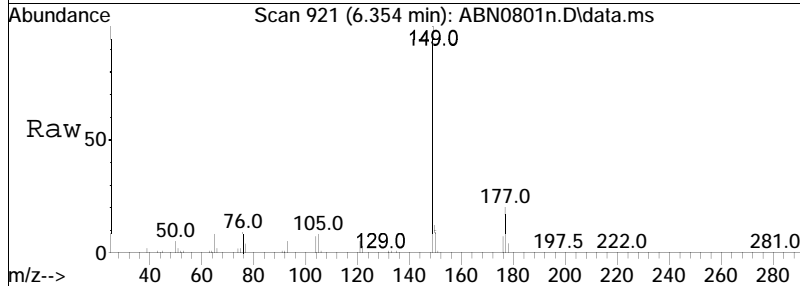
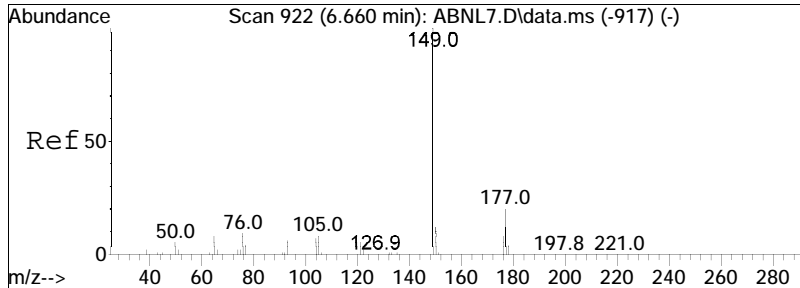




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 58.69 ug/ml
 RT: 6.231 min Scan# 900
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

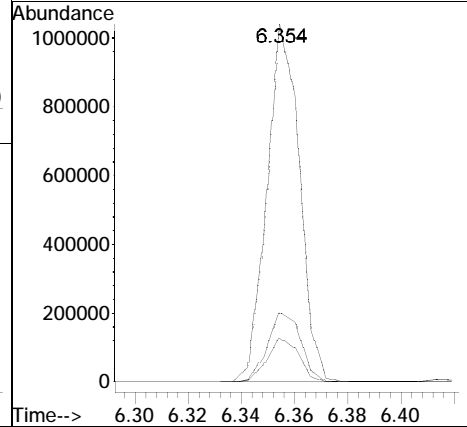
Tgt Ion	Ratio	Lower	Upper
232	100		
230	79.1	62.9	94.3
234	47.9	38.1	57.1

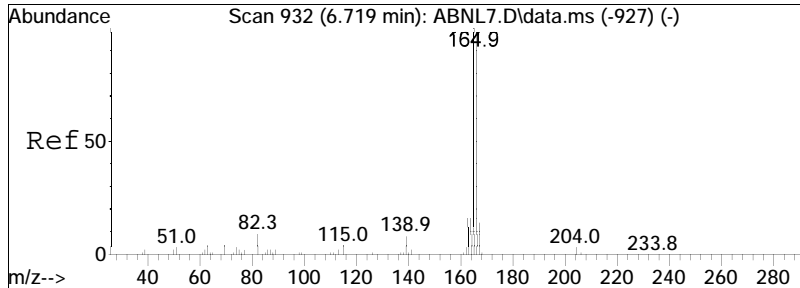




#72
 Diethyl phthalate
 Concen: 54.39 ug/ml
 RT: 6.354 min Scan# 921
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

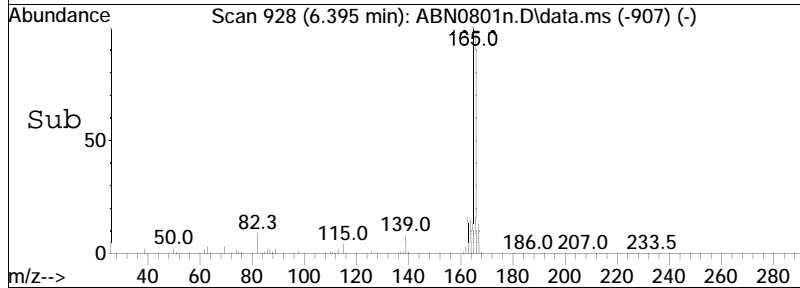
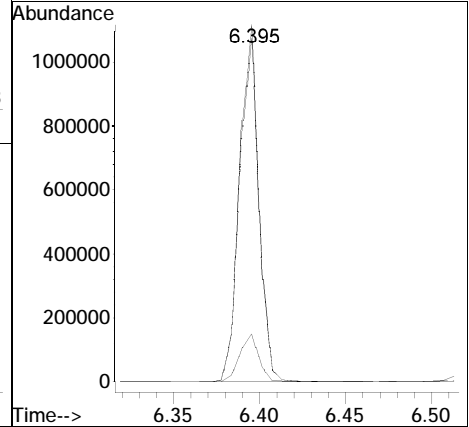
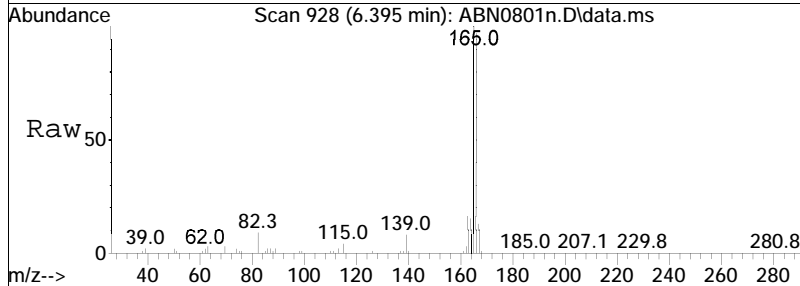
Tgt Ion	Ratio	Lower	Upper
149	100		
177	20.0	16.2	24.4
150	12.2	9.9	14.9

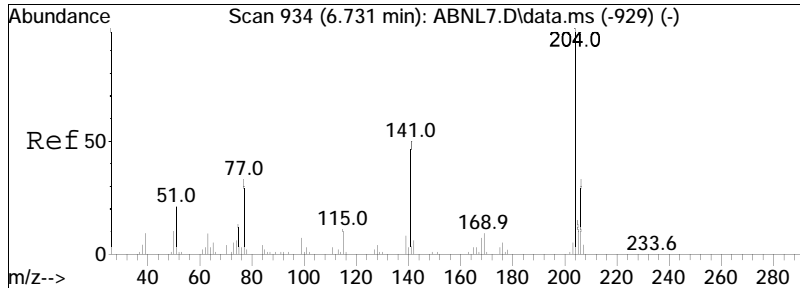




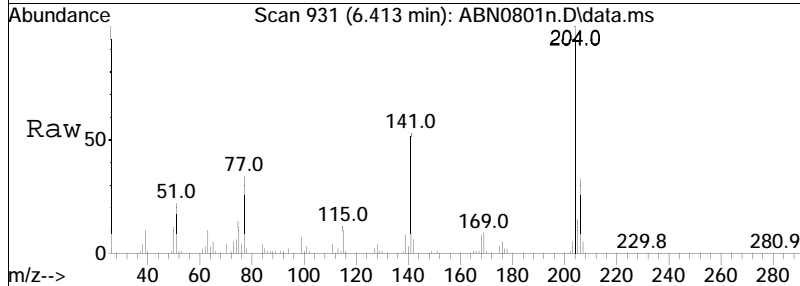
#73
 Fluorene
 Concen: 53.77 ug/ml
 RT: 6.395 min Scan# 928
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

Tgt Ion	Resp	Lower	Upper
166	838584		
166	100		
165	104.1	82.5	123.7
167	14.0	11.3	16.9

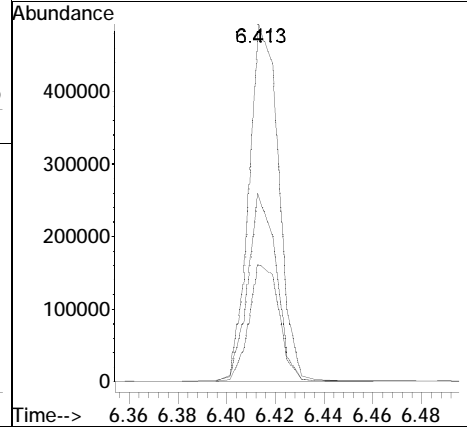
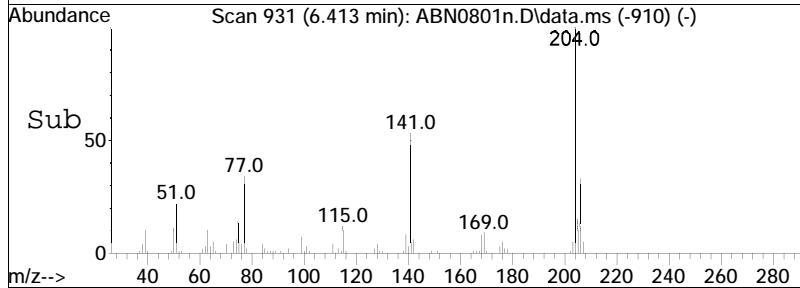


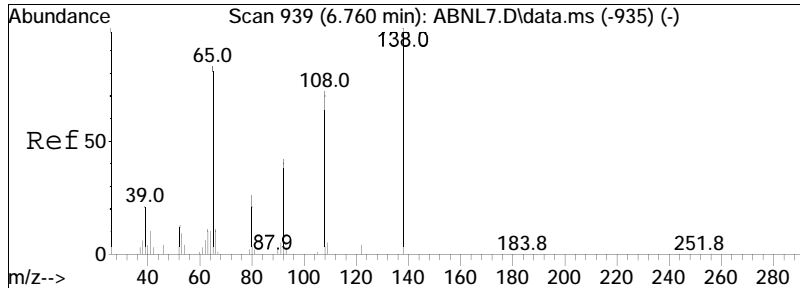


#74
 4-Chlorophenyl phenyl ether
 Concen: 55.07 ug/ml
 RT: 6.413 min Scan# 931
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm



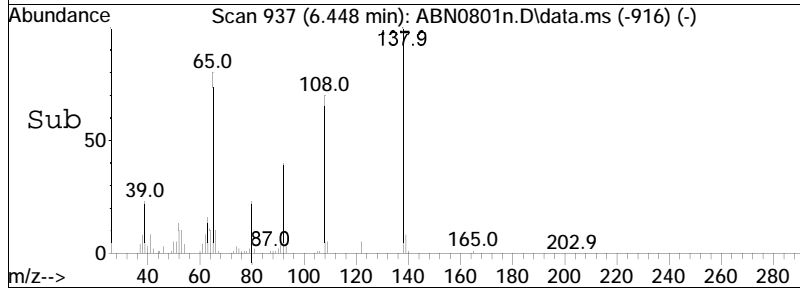
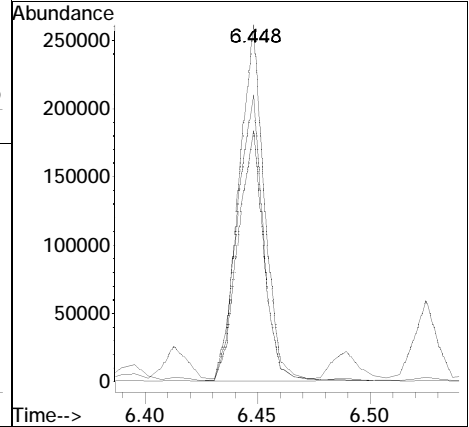
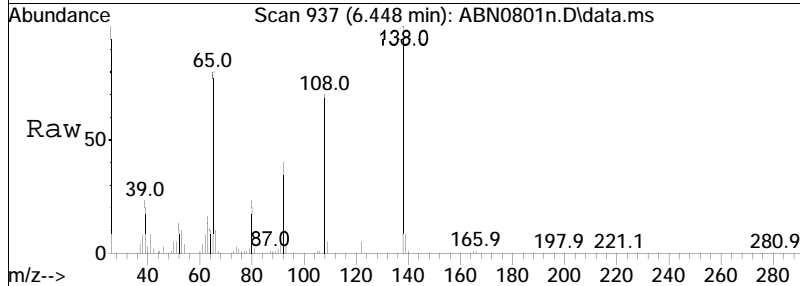
Tgt Ion	Ratio	Lower	Upper
204	100		
206	33.1	27.1	40.7
141	50.4	46.6	70.0

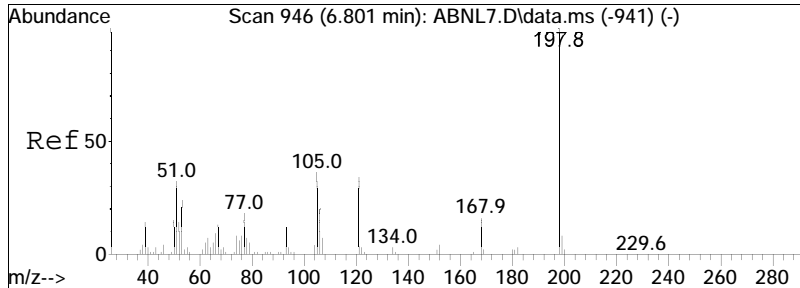




#75
 4-Nitroaniline
 Concen: 55.31 ug/ml
 RT: 6.448 min Scan# 937
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

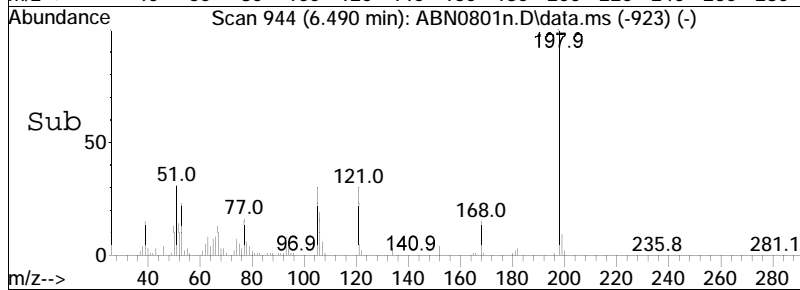
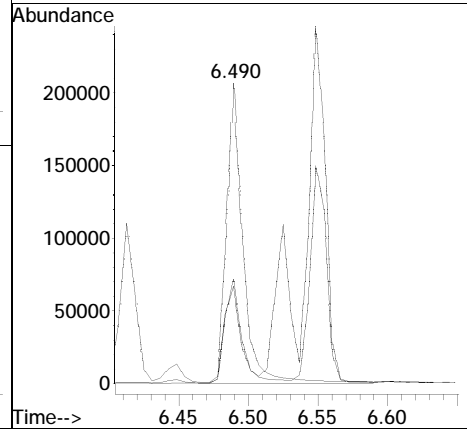
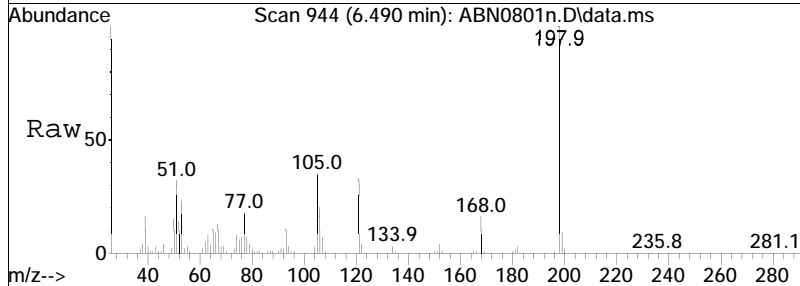
Tgt Ion	Resp	Lower	Upper
138	100		
108	71.5	45.8	68.8#
65	80.1	84.2	126.4#

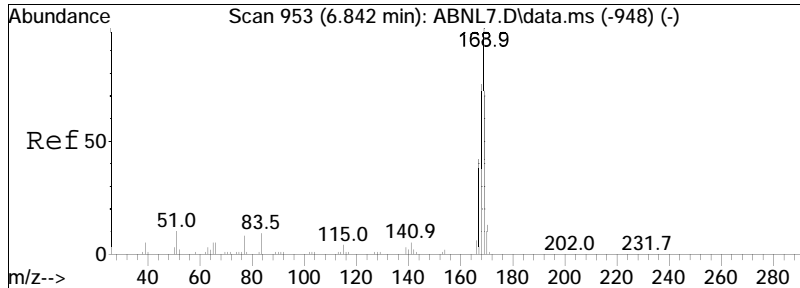




#76
 4,6-Dinitro-o-cresol
 Concen: 60.94 ug/ml
 RT: 6.490 min Scan# 944
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

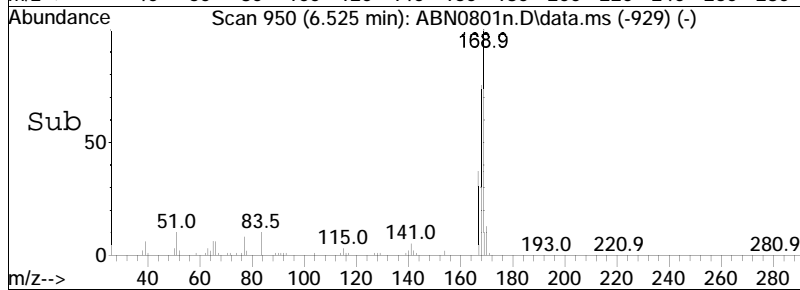
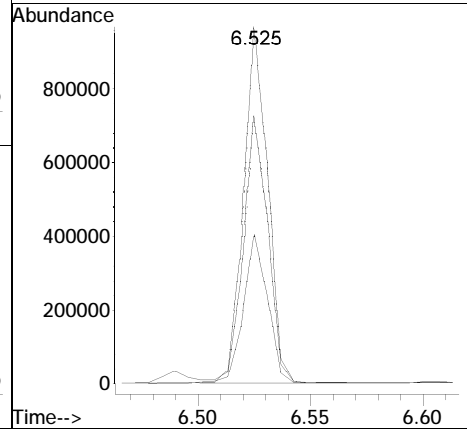
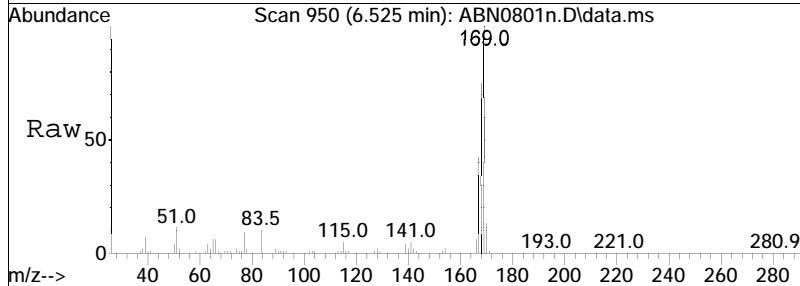
Tgt Ion	Ratio	Lower	Upper
198	100		
51	31.9	35.5	53.3#
105	35.1	35.8	53.6#

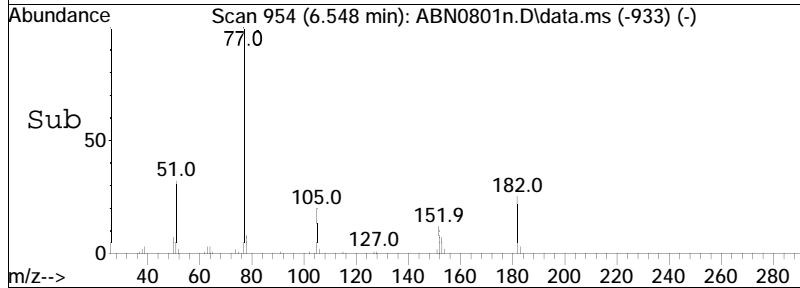
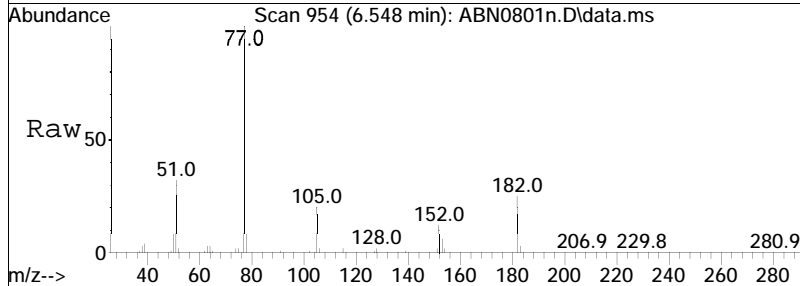
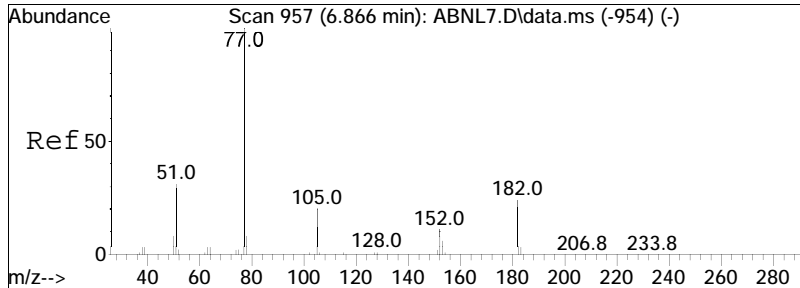




#77
 NDPA/DPA
 Concen: 54.12 ug/ml
 RT: 6.525 min Scan# 950
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

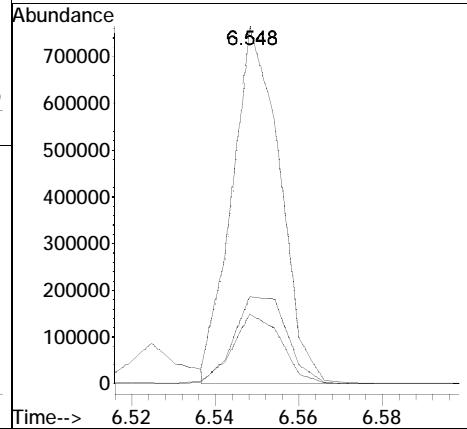
Tgt Ion	Resp	Lower	Upper
169	100		
168	76.1	59.7	89.5
167	42.4	33.6	50.4

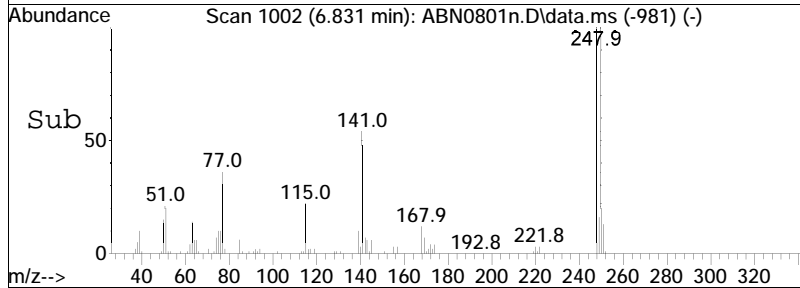
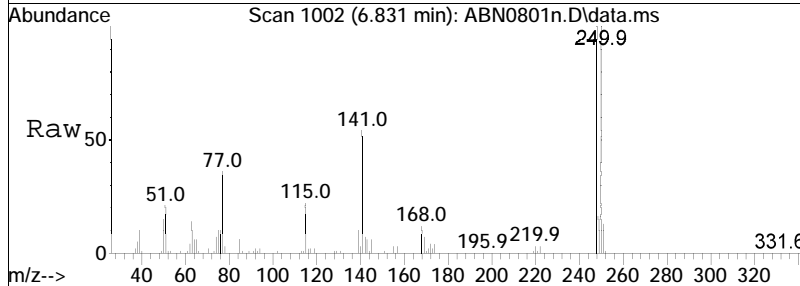
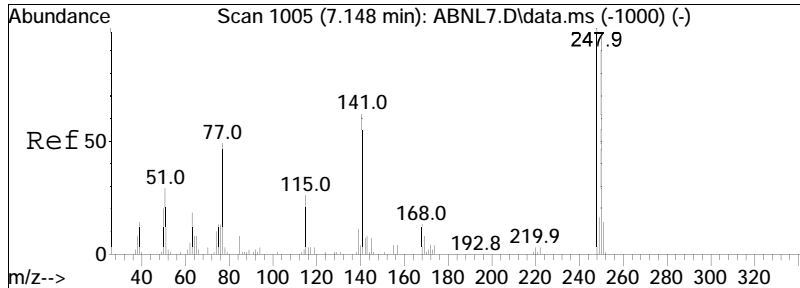




#78
 Azobenzene
 Concen: 50.21 ug/ml M6
 RT: 6.548 min Scan# 954
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

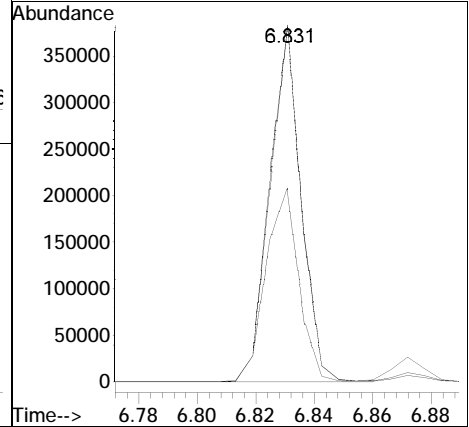
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
77	100		
182	27.6	19.0	28.6
105	20.1	18.9	28.3

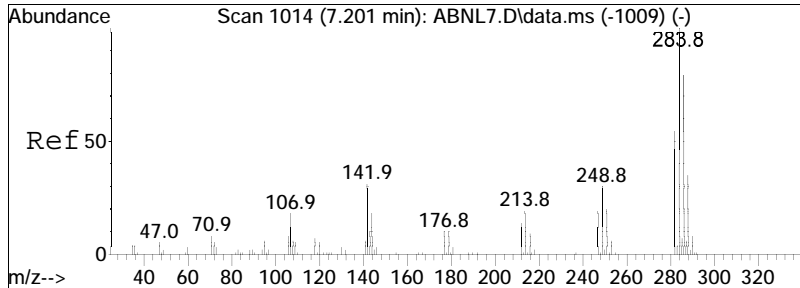




#80
 4-Bromophenyl phenyl ether
 Concen: 57.73 ug/ml
 RT: 6.831 min Scan# 1002
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

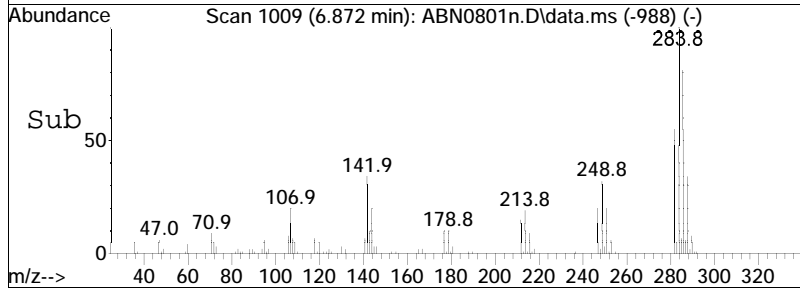
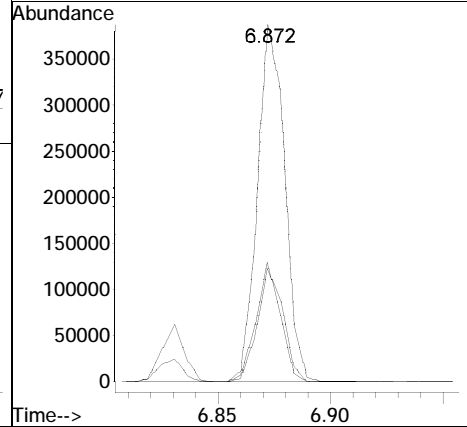
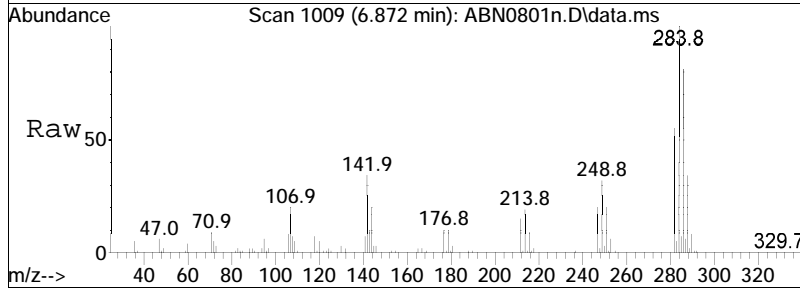
Tgt Ion	Ratio	Lower	Upper
248	100		
141	57.1	50.8	76.2
250	97.9	78.1	117.1

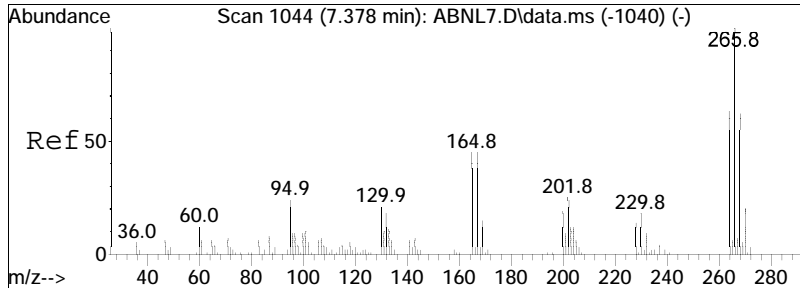




#81
 Hexachlorobenzene
 Concen: 56.92 ug/ml
 RT: 6.872 min Scan# 1009
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

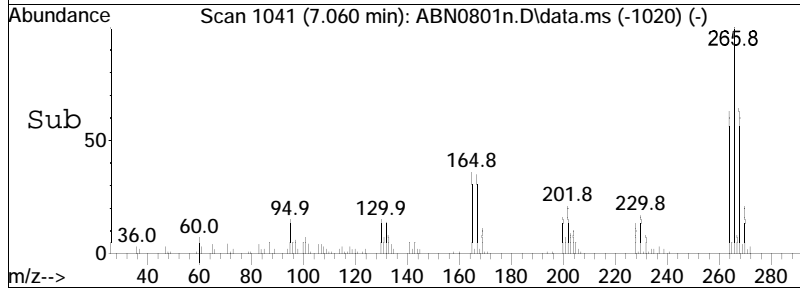
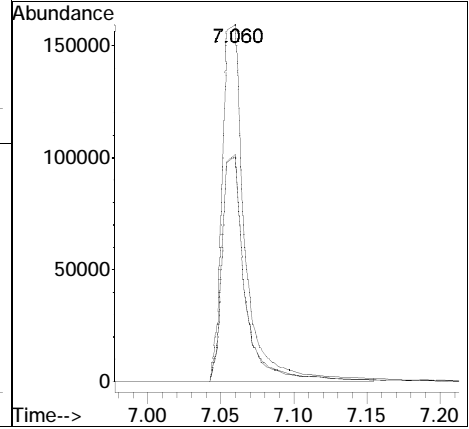
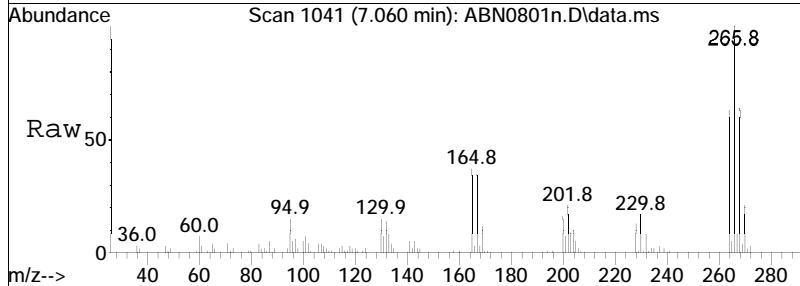
Tgt Ion	Resp	Lower	Upper
284	100		
142	30.1	25.7	38.5
249	30.2	23.3	34.9

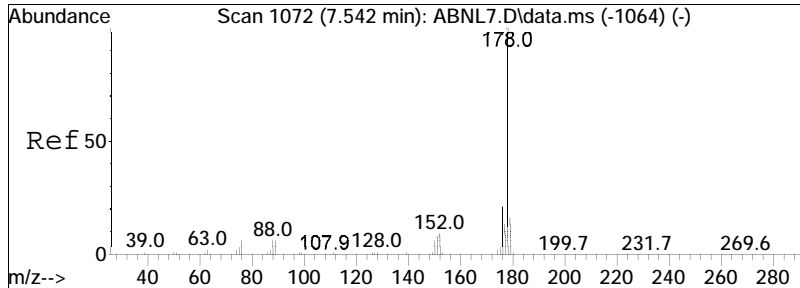




#82
 Pentachlorophenol
 Concen: 54.38 ug/ml
 RT: 7.060 min Scan# 1041
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

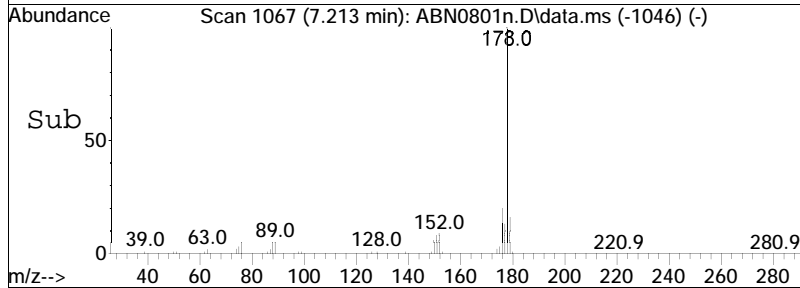
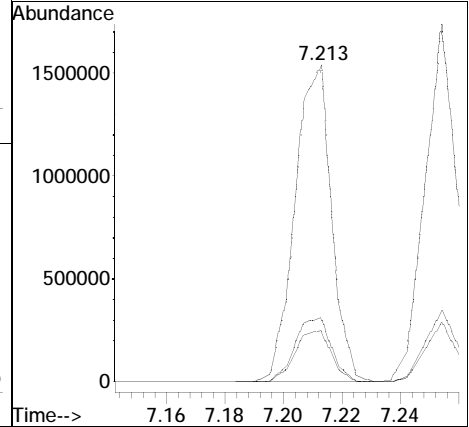
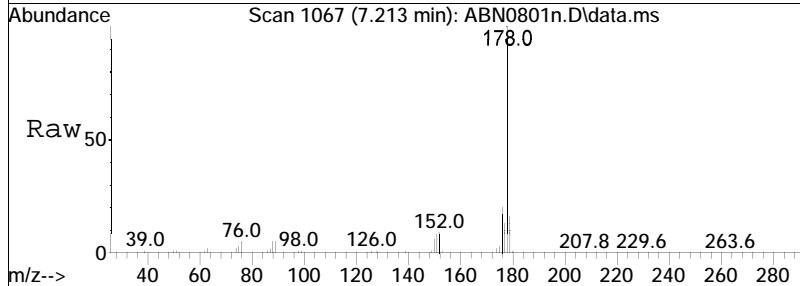
Tgt Ion	Resp	Lower	Upper
266	100		
264	63.5	50.4	75.6
268	64.2	49.9	74.9

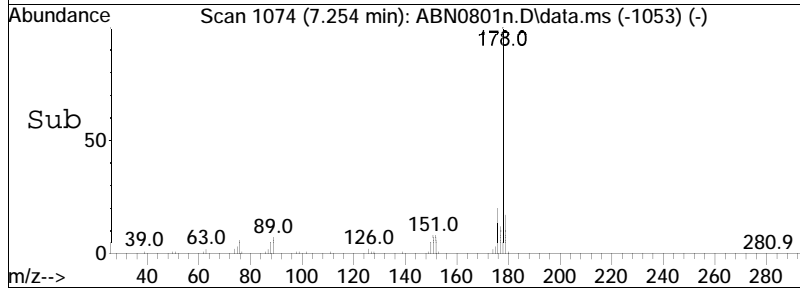
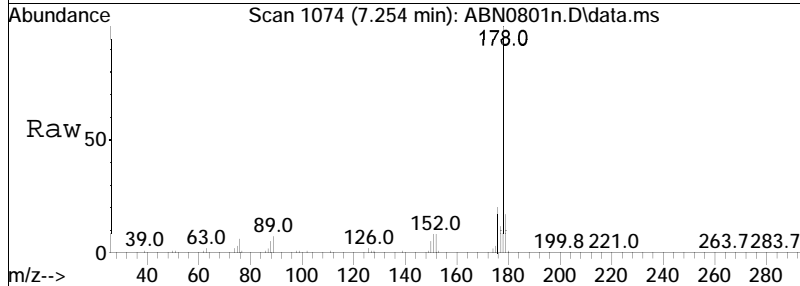
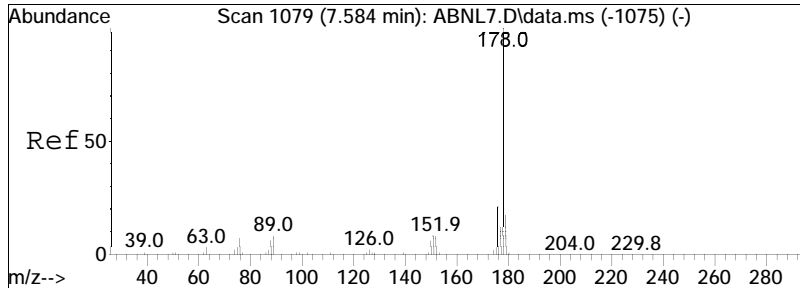




#89
 Phenanthrene
 Concen: 52.93 ug/ml
 RT: 7.213 min Scan# 1067
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

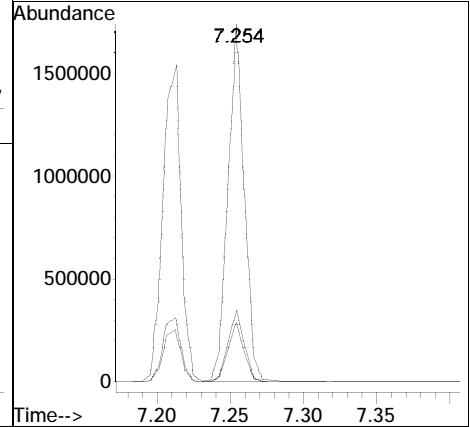
Tgt Ion	Ratio	Lower	Upper
178	100		
179	16.3	13.3	19.9
176	20.4	16.9	25.3

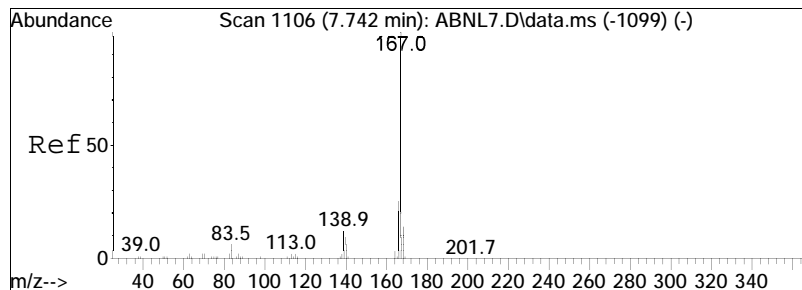




#90
 Anthracene
 Concen: 53.60 ug/ml
 RT: 7.254 min Scan# 1074
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

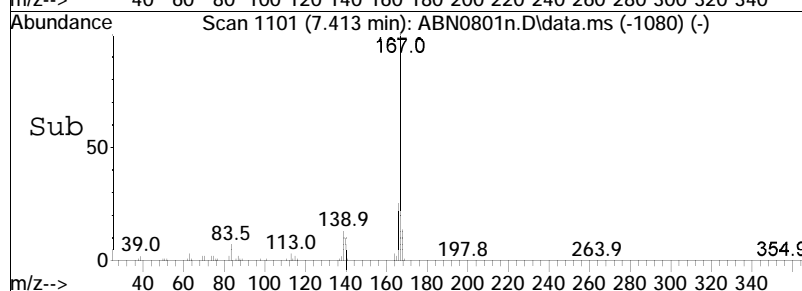
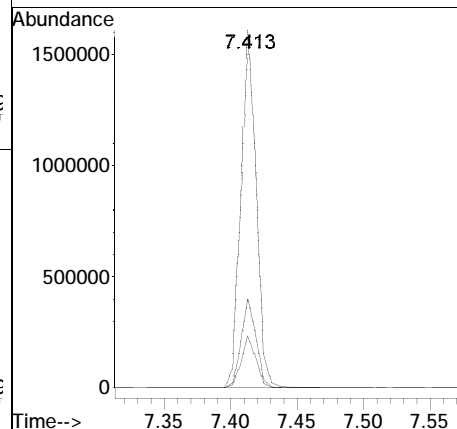
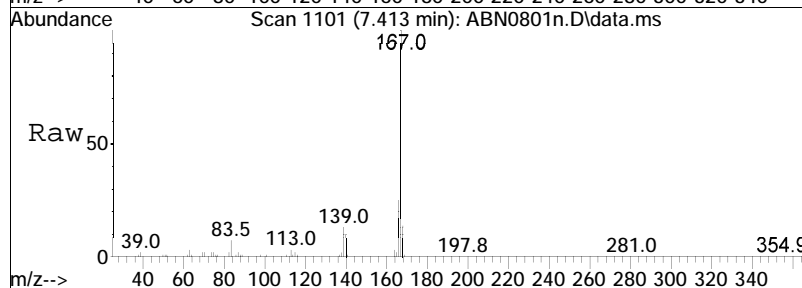
Tgt Ion	Resp	Lower	Upper
178	1352908		
179	16.1	13.1	19.7
176	19.8	16.3	24.5

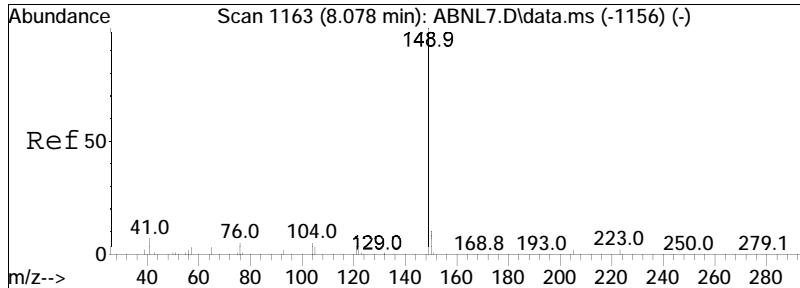




#91
 Carbazole
 Concen: 52.28 ug/ml
 RT: 7.413 min Scan# 1101
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

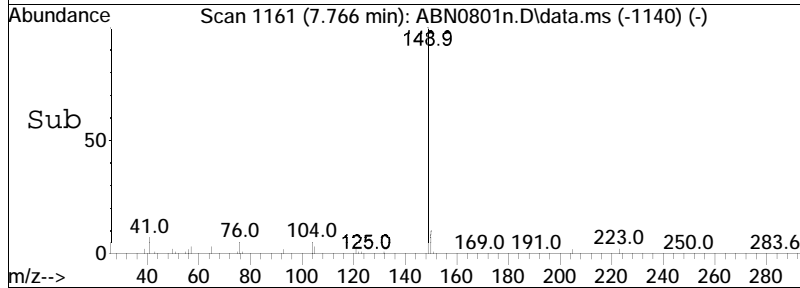
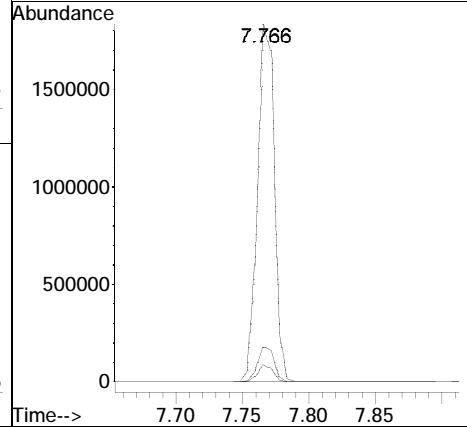
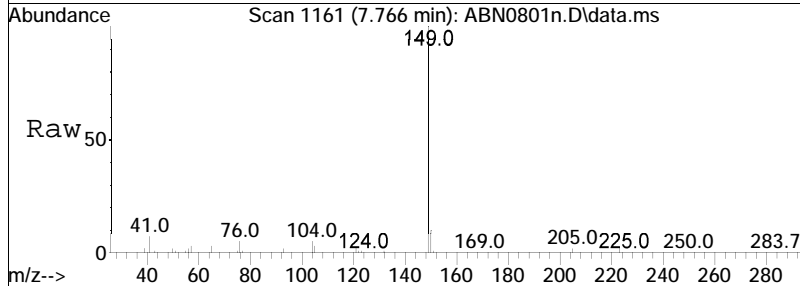
Tgt Ion	Resp	Lower	Upper
167	100		
168	14.1	11.6	17.4
166	24.8	19.9	29.9

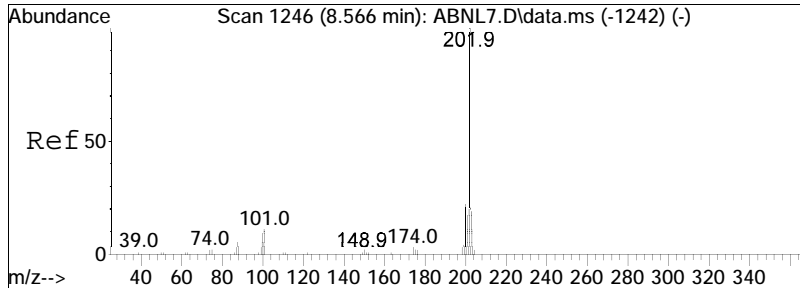




#92
 Di-n-butylphthalate
 Concen: 53.87 ug/ml
 RT: 7.766 min Scan# 1161
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

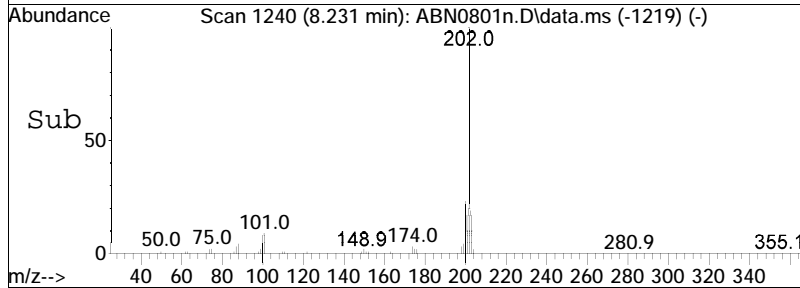
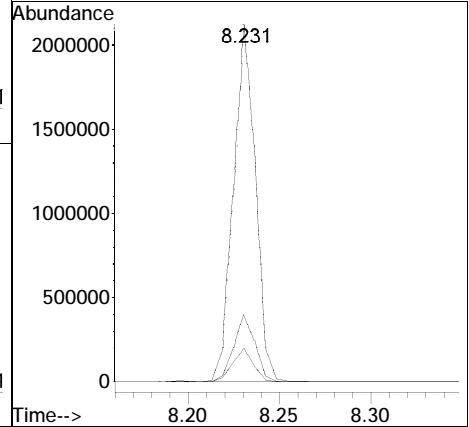
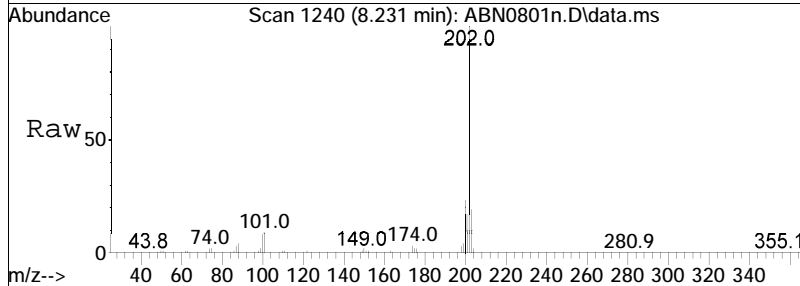
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.6	8.1	12.1
104	4.4	3.4	5.2

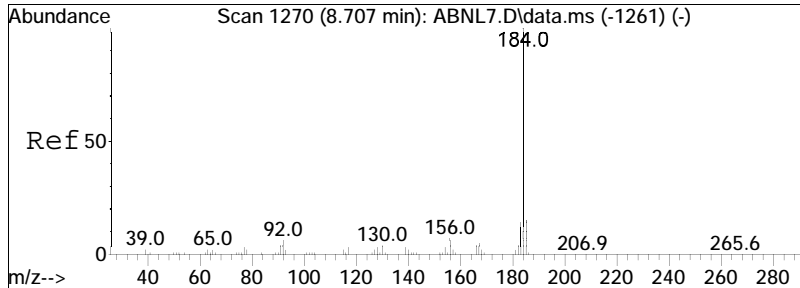




#93
 Fluoranthene
 Concen: 53.40 ug/ml
 RT: 8.231 min Scan# 1240
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

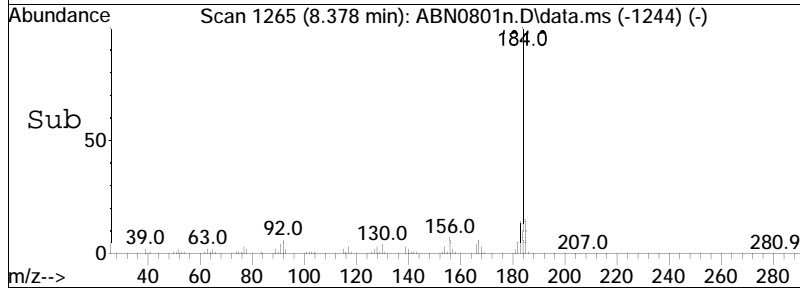
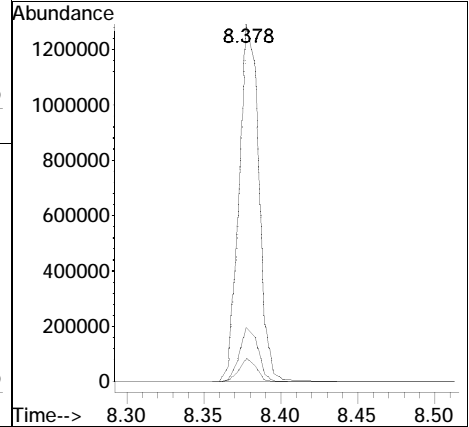
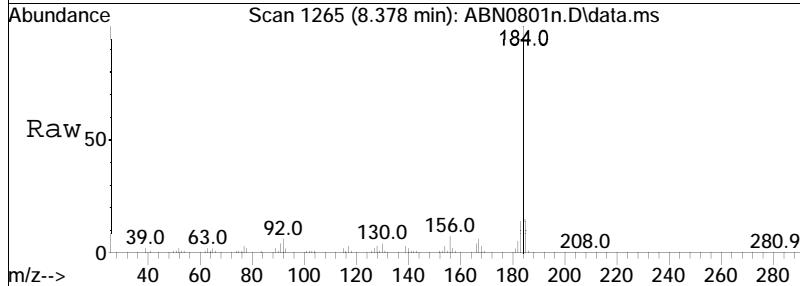
Tgt Ion	Resp	Lower	Upper
202	100		
101	9.0	11.5	17.3#
203	18.5	15.0	22.6

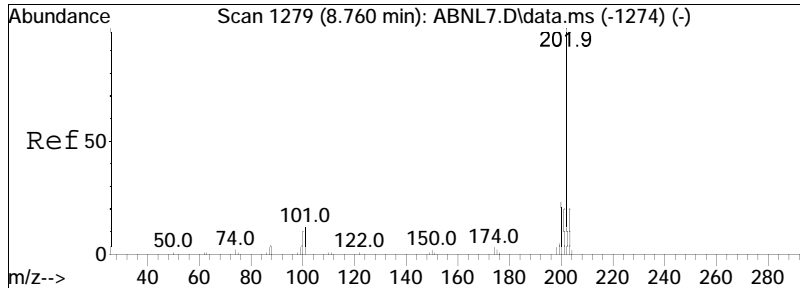




#94
 Benzidine
 Concen: 53.33 ug/ml
 RT: 8.378 min Scan# 1265
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

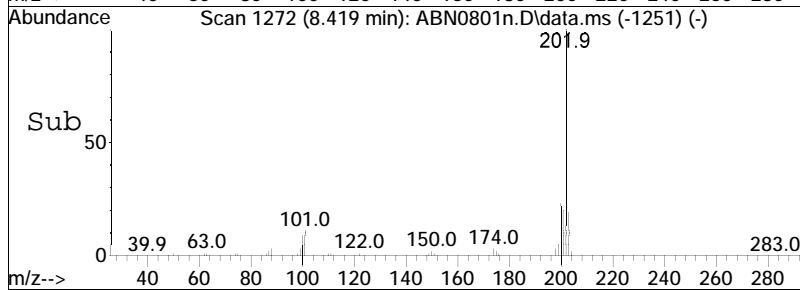
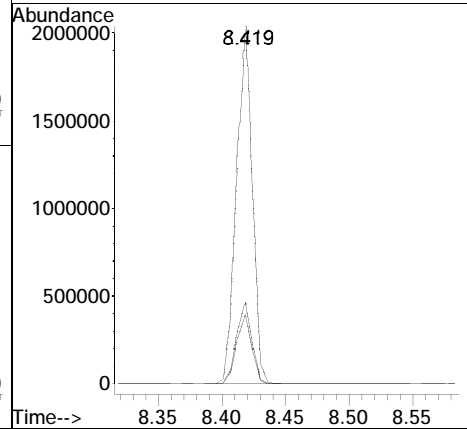
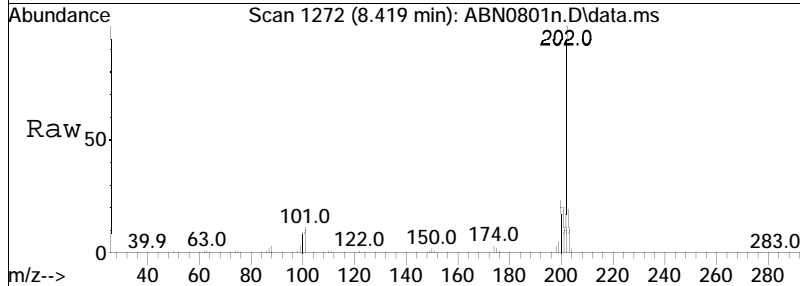
Tgt Ion	Ratio	Lower	Upper
184	100		
92	5.9	7.4	11.2#
185	14.5	11.8	17.6

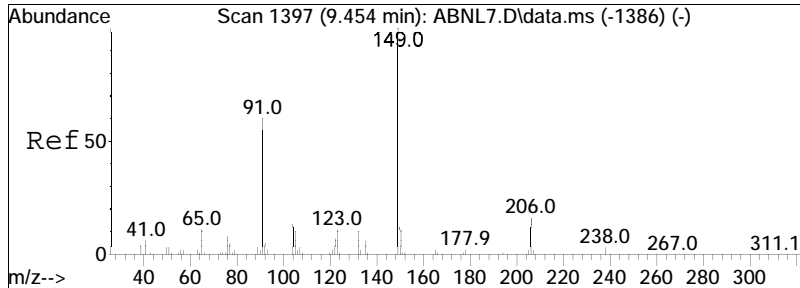




#95
 Pyrene
 Concen: 51.33 ug/ml
 RT: 8.419 min Scan# 1272
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

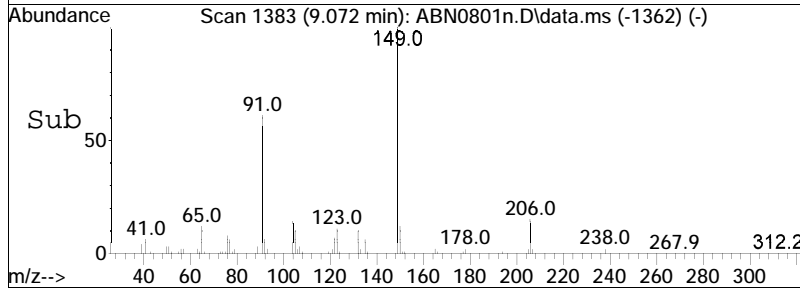
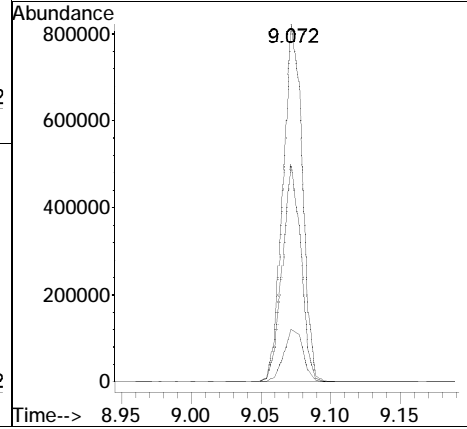
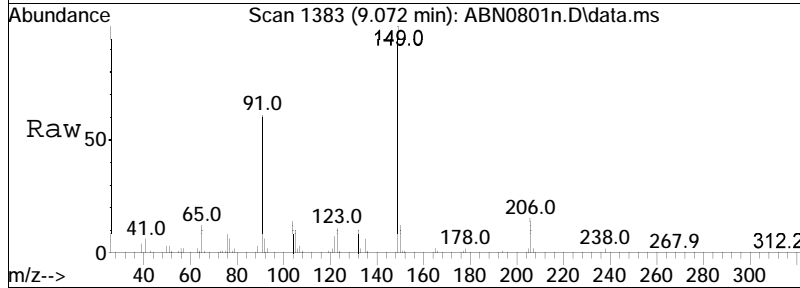
Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.5	18.5	27.7
203	19.0	15.5	23.3

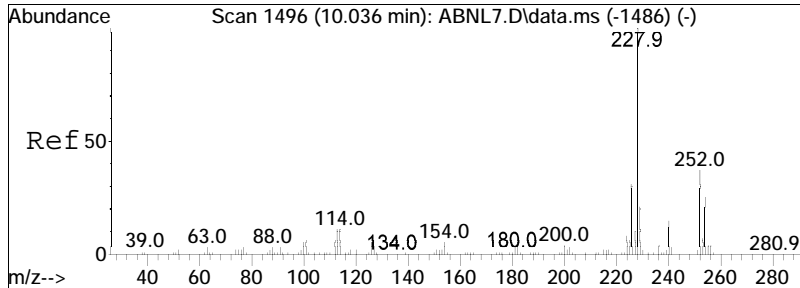




#97
 Butyl benzyl phthalate
 Concen: 53.22 ug/ml
 RT: 9.072 min Scan# 1383
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

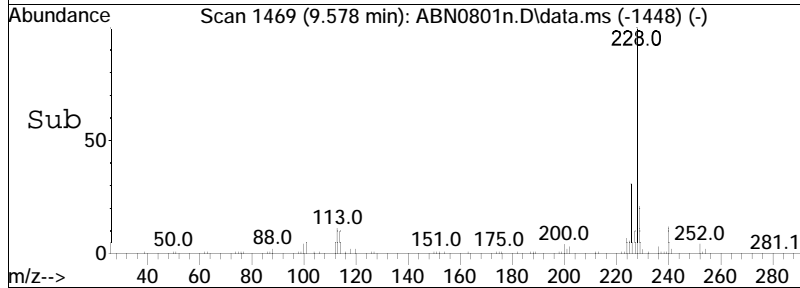
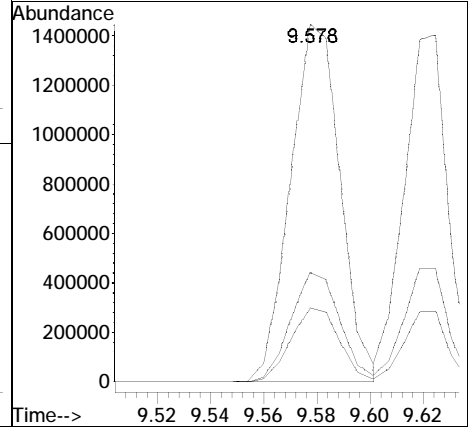
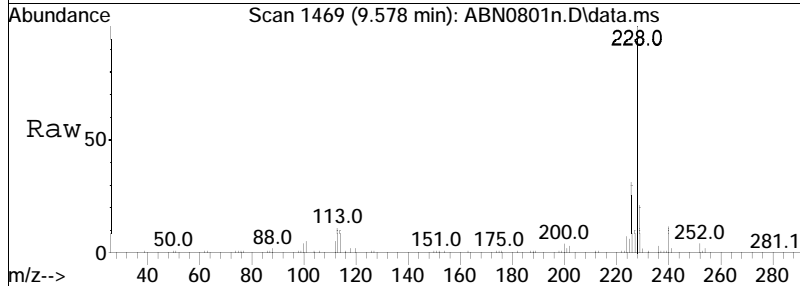
Tgt Ion	Ratio	Lower	Upper
149	100		
91	58.2	51.2	76.8
206	14.8	12.1	18.1

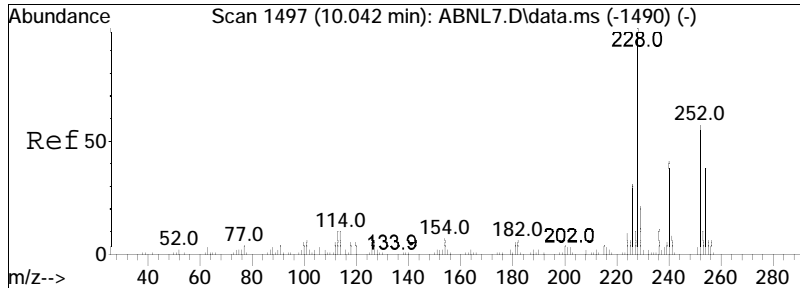




#105
 Benzo(a)anthracene
 Concen: 53.41 ug/ml
 RT: 9.578 min Scan# 1469
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

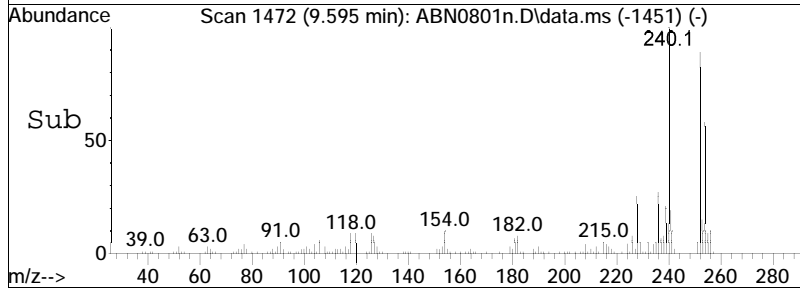
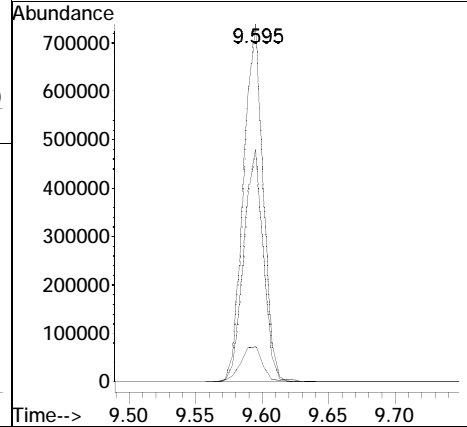
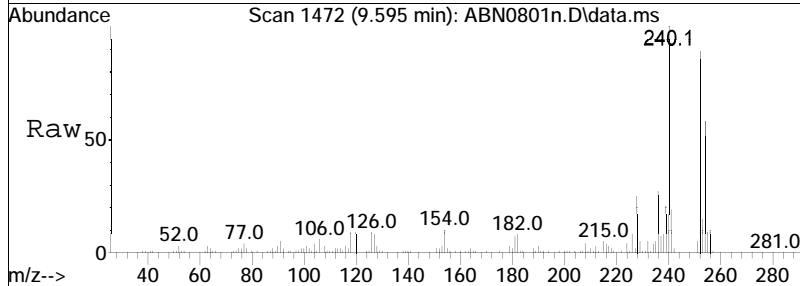
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.8	35.8
229	20.2	16.6	24.8

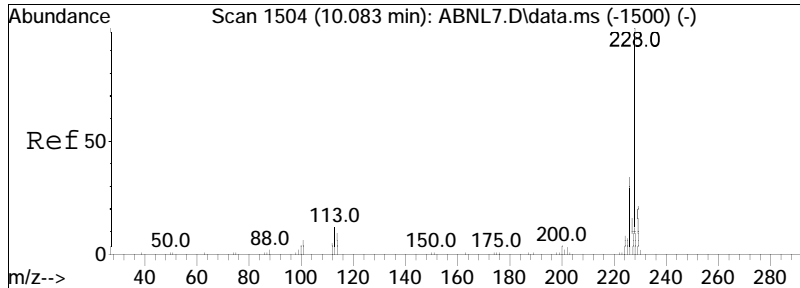




#106
 3,3'-Dichlorobenzidine
 Concen: 54.48 ug/ml
 RT: 9.595 min Scan# 1472
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

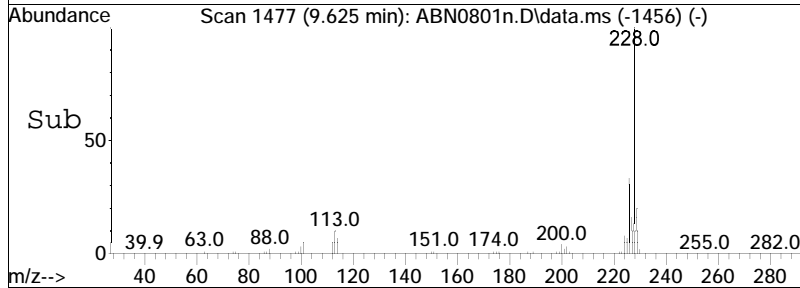
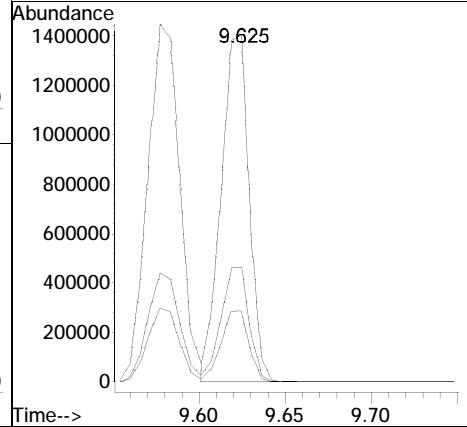
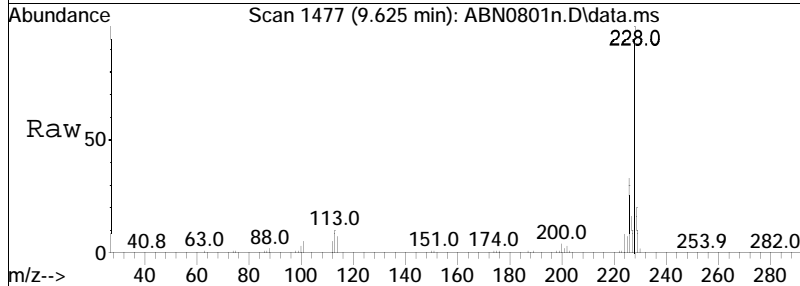
Tgt Ion	Ratio	Lower	Upper
252	100		
126	11.9	11.6	17.4
254	65.2	52.2	78.2

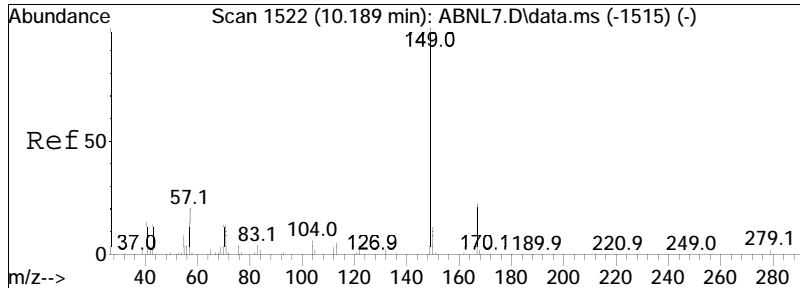




#107
 Chrysene
 Concen: 53.79 ug/ml
 RT: 9.625 min Scan# 1477
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

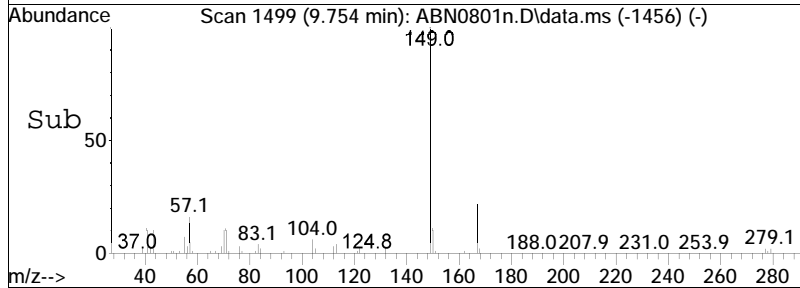
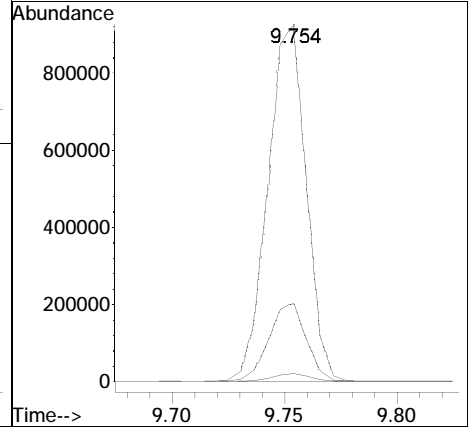
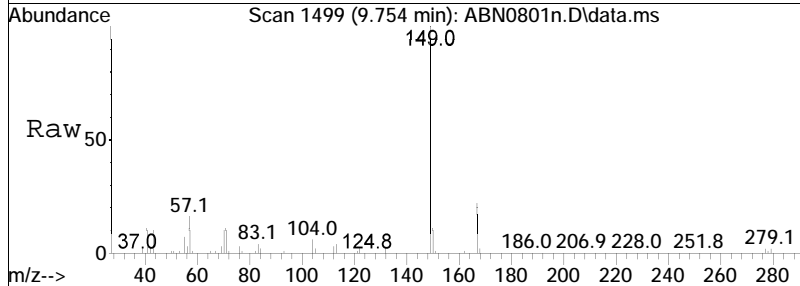
Tgt Ion	Resp	Lower	Upper
228	100		
226	32.8	26.2	39.4
229	20.3	16.7	25.1

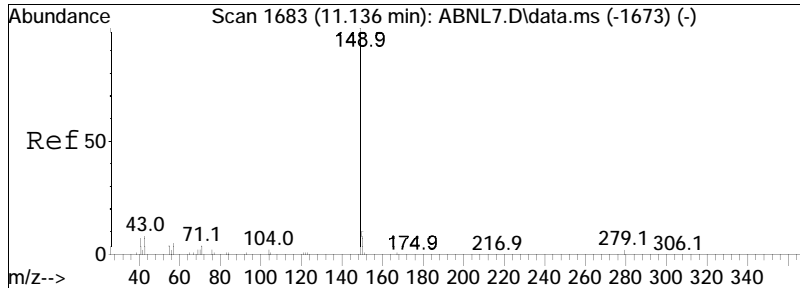




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 55.34 ug/ml
 RT: 9.754 min Scan# 1499
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

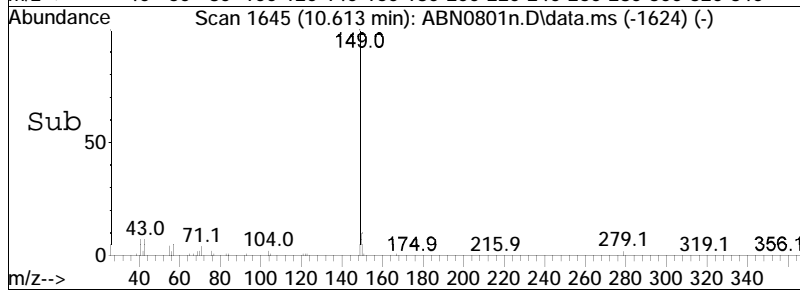
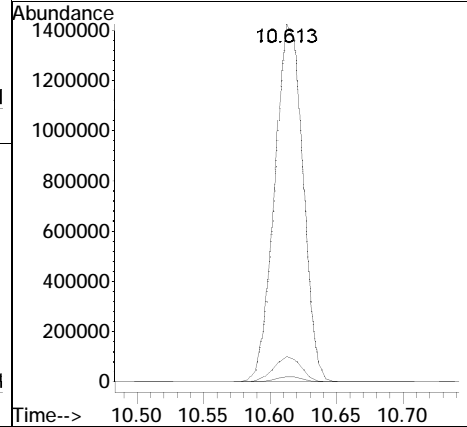
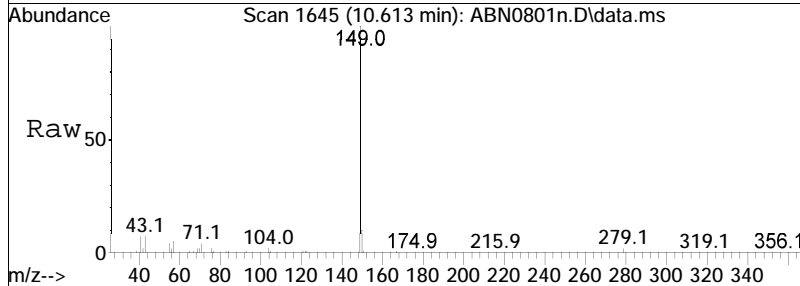
Tgt Ion	Ratio	Lower	Upper
149	100		
167	21.5	17.8	26.8
279	2.0	1.8	2.6

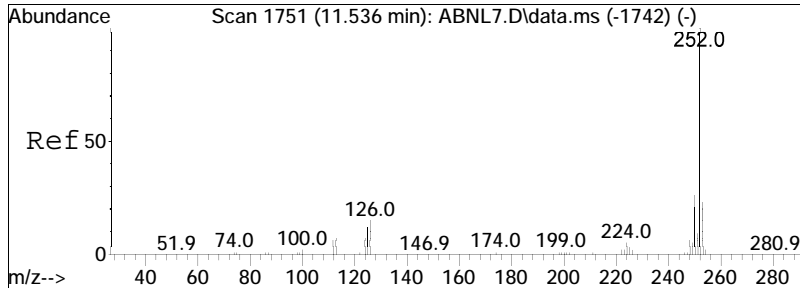




#109
 Di-n-octylphthalate
 Concen: 56.82 ug/ml
 RT: 10.613 min Scan# 1645
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

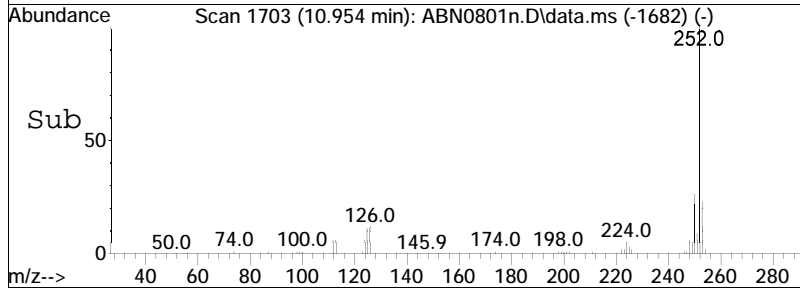
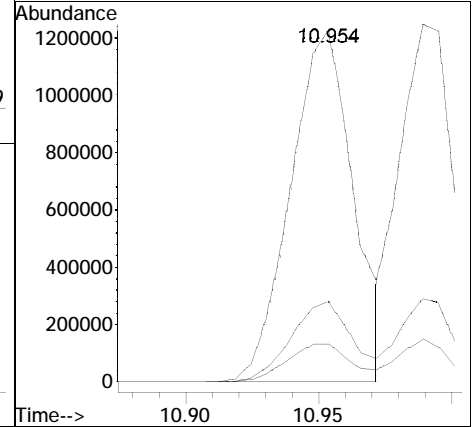
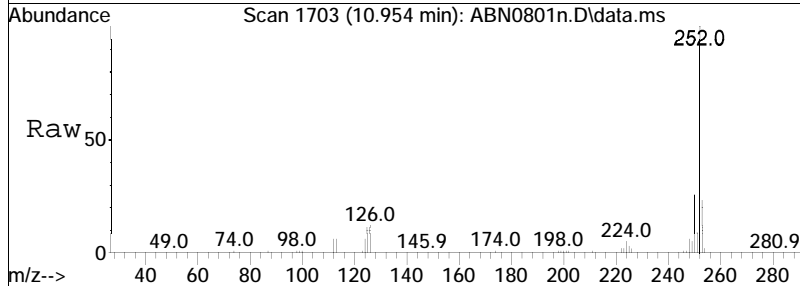
Tgt Ion	Ratio	Lower	Upper
149	100		
43	7.0	7.4	11.2#
167	1.3	1.1	1.7

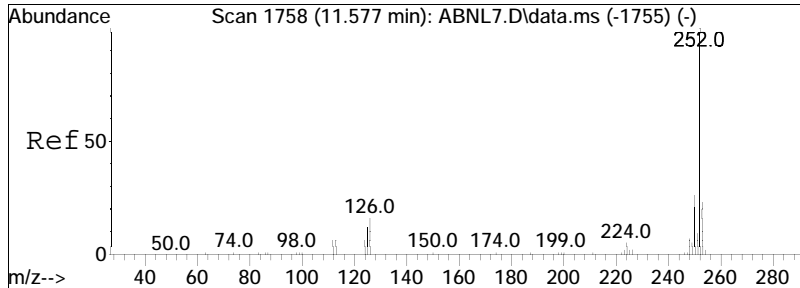




#110
 Benzo(b)fluoranthene
 Concen: 55.14 ug/ml M3
 RT: 10.954 min Scan# 1703
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

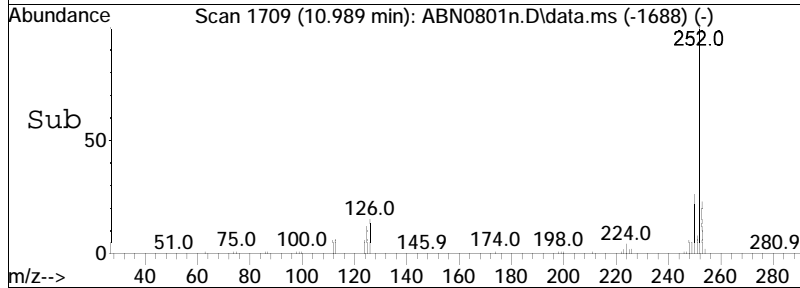
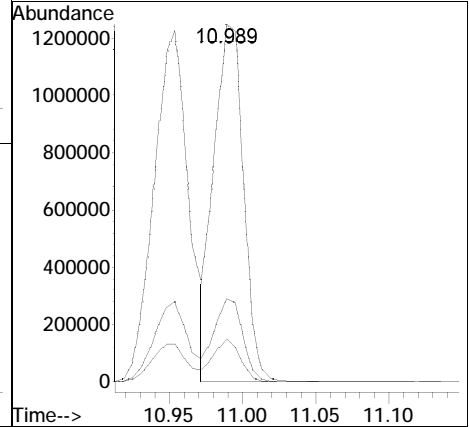
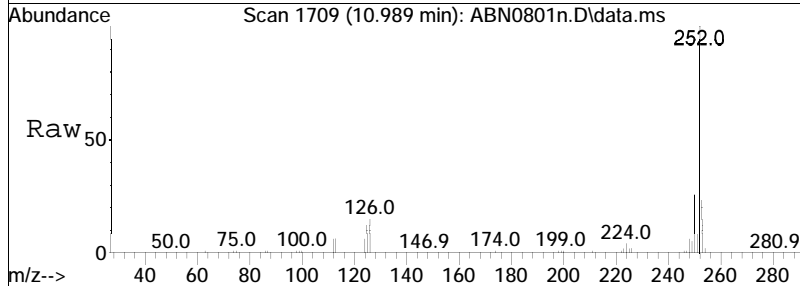
Tgt Ion	Ratio	Lower	Upper
252	100		
125	11.3	11.1	16.7
253	22.5	17.4	26.2

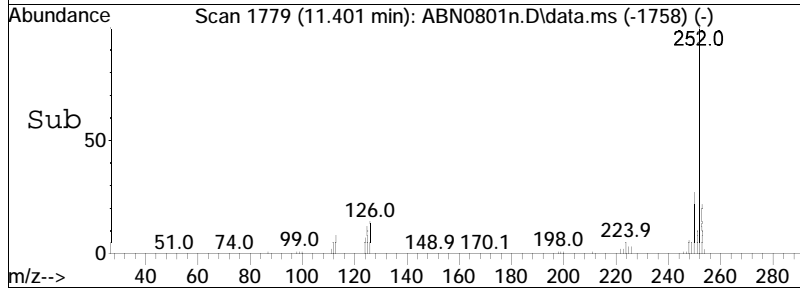
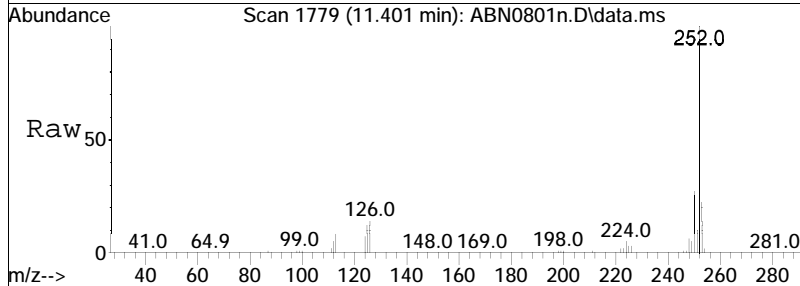
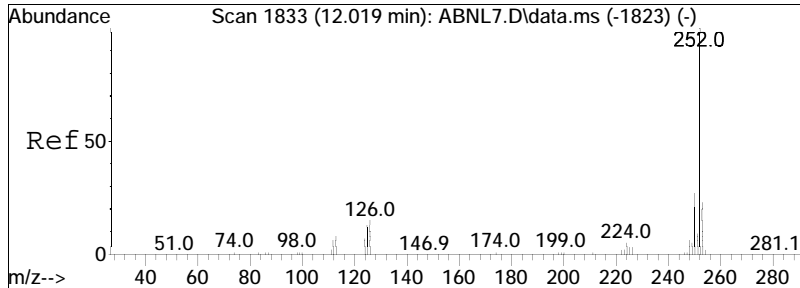




#111
 Benzo(k)fluoranthene
 Concen: 52.92 ug/ml
 RT: 10.989 min Scan# 1709
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

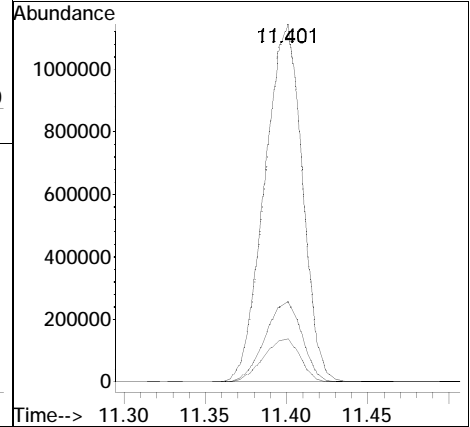
Tgt Ion	Ratio	Lower	Upper
252	100		
125	10.9	12.3	18.5#
253	22.6	19.5	29.3

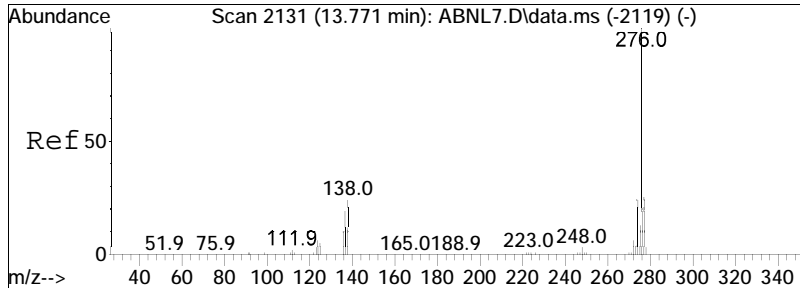




#112
 Benzo(a)pyrene
 Concen: 57.92 ug/ml
 RT: 11.401 min Scan# 1779
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

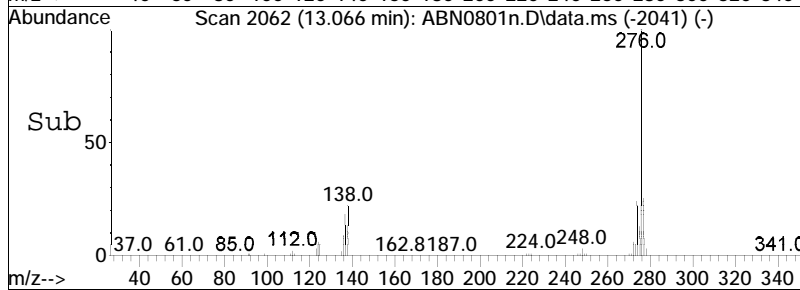
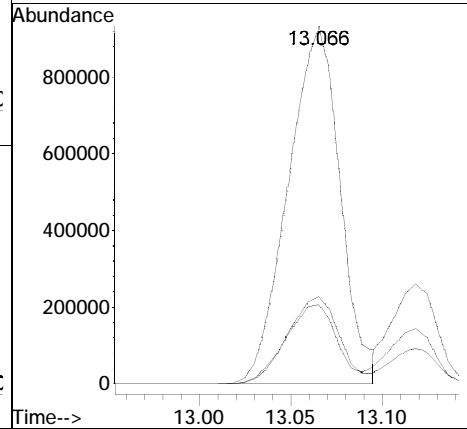
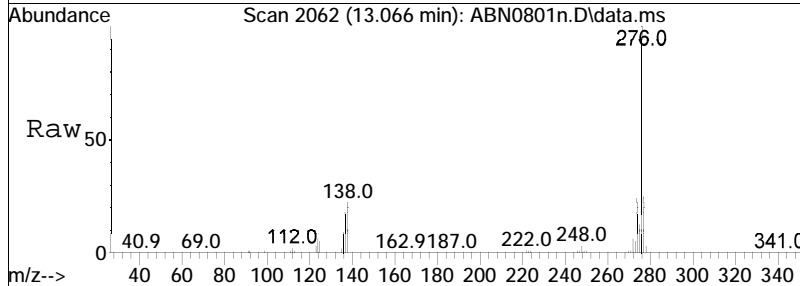
Tgt Ion	Ratio	Lower	Upper
252	100		
125	12.0	12.6	19.0#
253	22.3	18.2	27.4

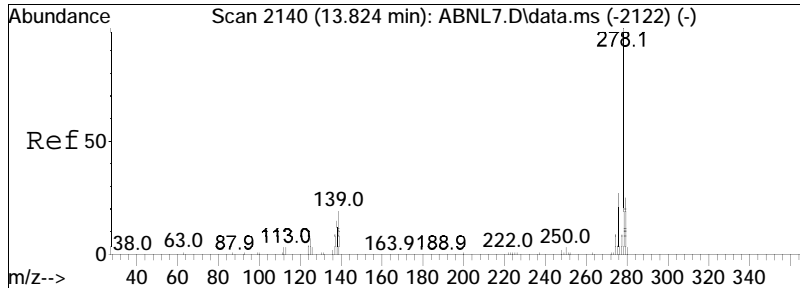




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 56.70 ug/mL
 RT: 13.066 min Scan# 2062
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

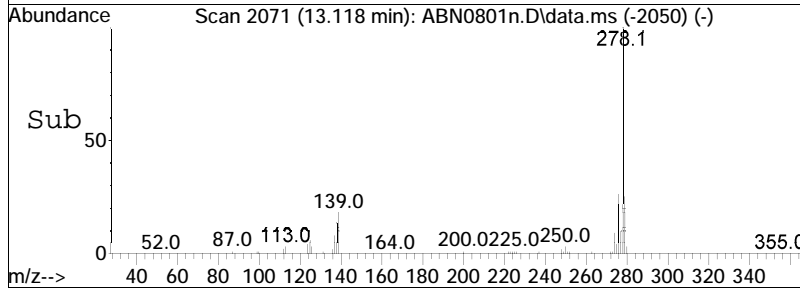
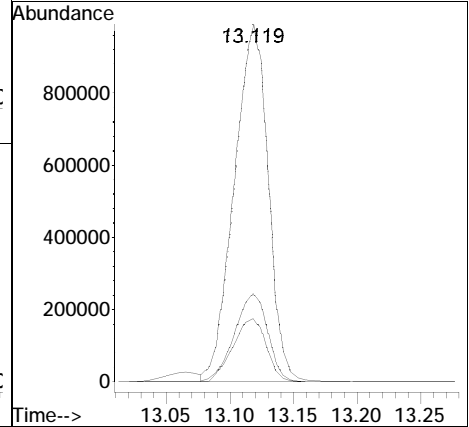
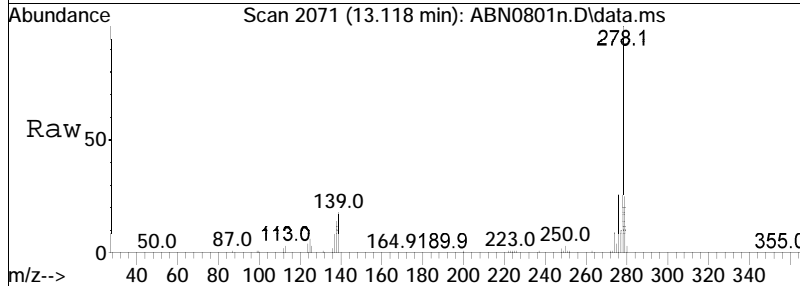
Tgt Ion	Resp	Lower	Upper
276	100		
138	22.4	22.2	33.2
277	24.2	20.1	30.1

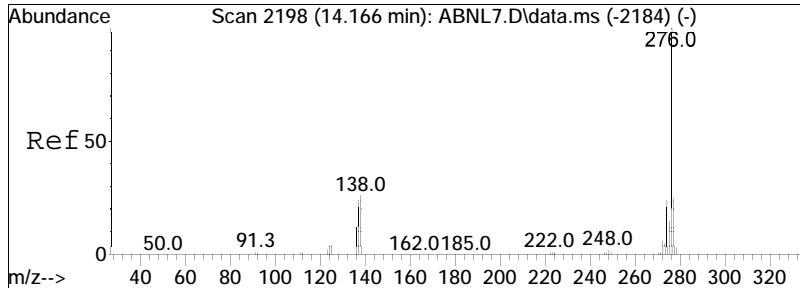




#115
 Dibenzo(a,h)anthracene
 Concen: 55.11 ug/ml
 RT: 13.118 min Scan# 2071
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

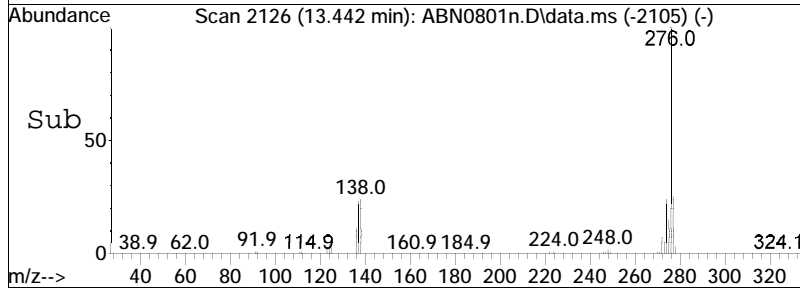
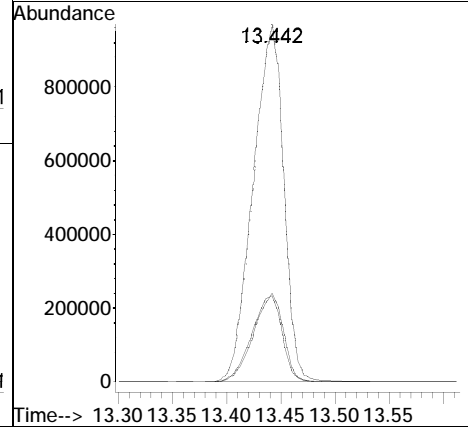
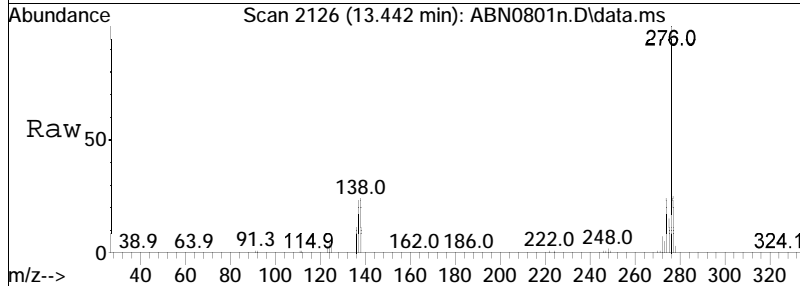
Tgt Ion	Resp	Lower	Upper
278	100		
139	17.6	17.4	26.2
279	24.6	19.7	29.5





#116
 Benzo(ghi)perylene
 Concen: 55.67 ug/ml
 RT: 13.442 min Scan# 2126
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:21 pm

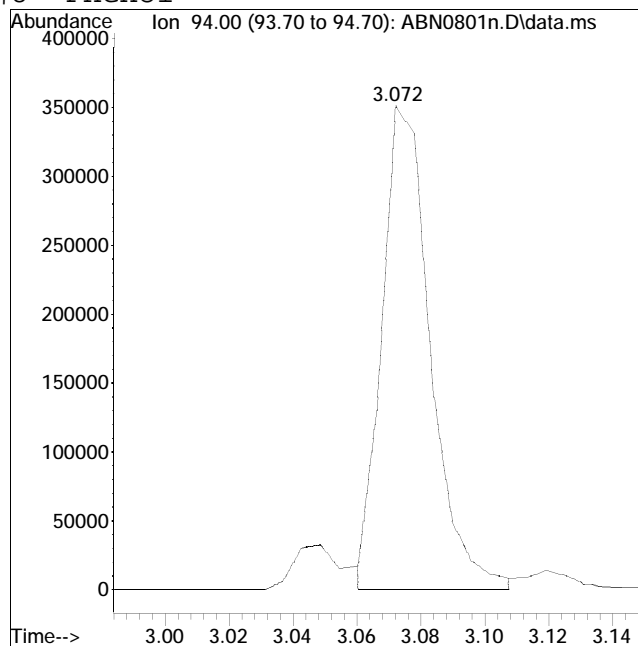
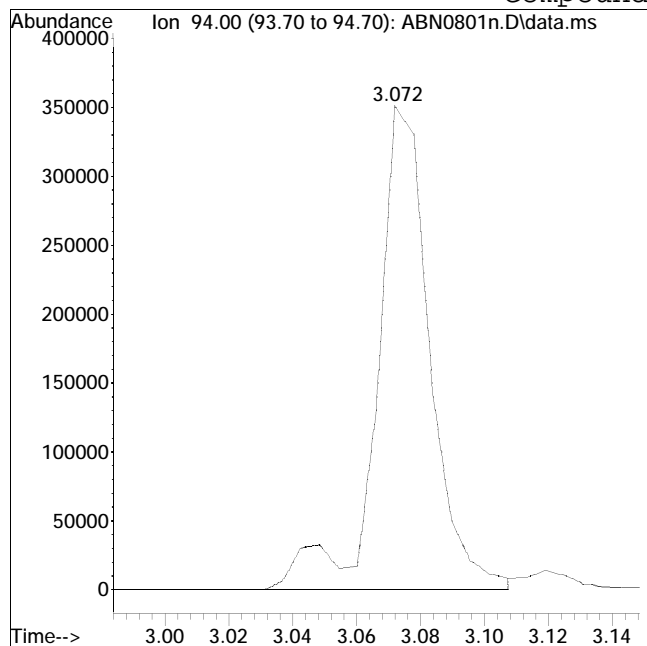
Tgt Ion	Resp	Lower	Upper
276	100		
138	24.1	24.2	36.4#
277	24.2	19.8	29.6



Manual Integration Report

Data Path : I:\8270\Juliet\230801n\ QMethod : FS230721Juliet.m
Data File : ABN0801n.D Operator : Juliet:jg
Date Inj'd : 8/1/2023 11:21 pm Instrument : Juliet
Sample : WG1810591-3,32,,ABN CCV LoQuant Date : 8/2/2023 12:07 pm

Compound #8: Phenol



Original Peak Response = 405301

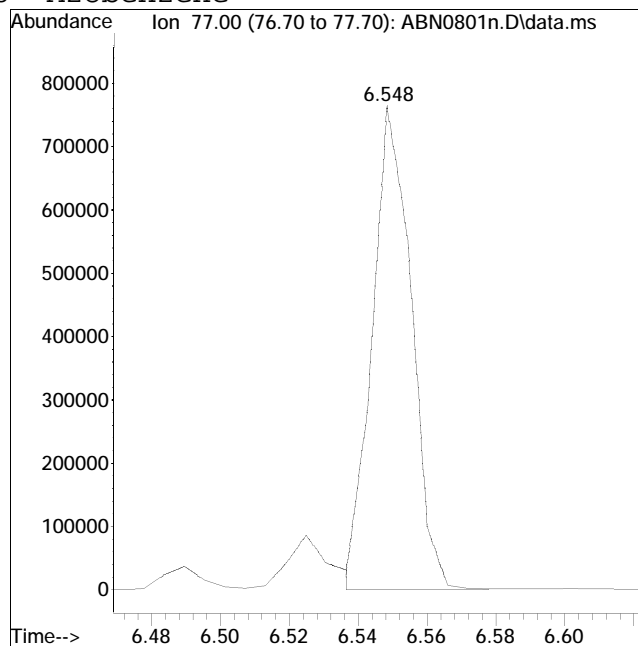
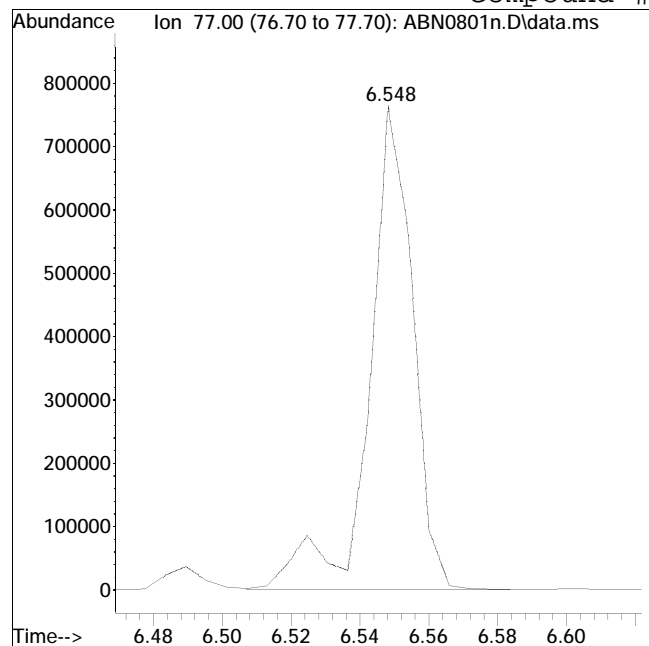
Manual Peak Response = 369624 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270\Juliet\230801n\ QMethod : FS230721Juliet.m
Data File : ABN0801n.D Operator : Juliet:jg
Date Inj'd : 8/1/2023 11:21 pm Instrument : Juliet
Sample : WG1810591-3,32,,ABN CCV LoQuant Date : 8/2/2023 12:07 pm

Compound #78: Azobenzene



Original Peak Response = 672647

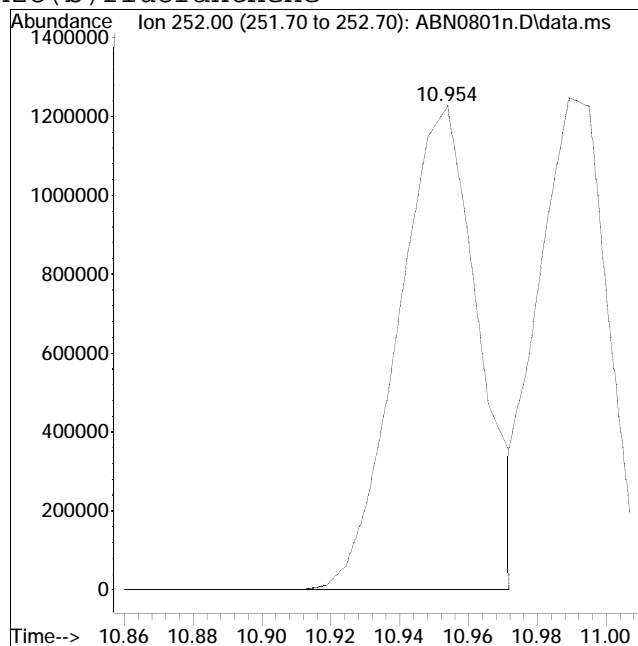
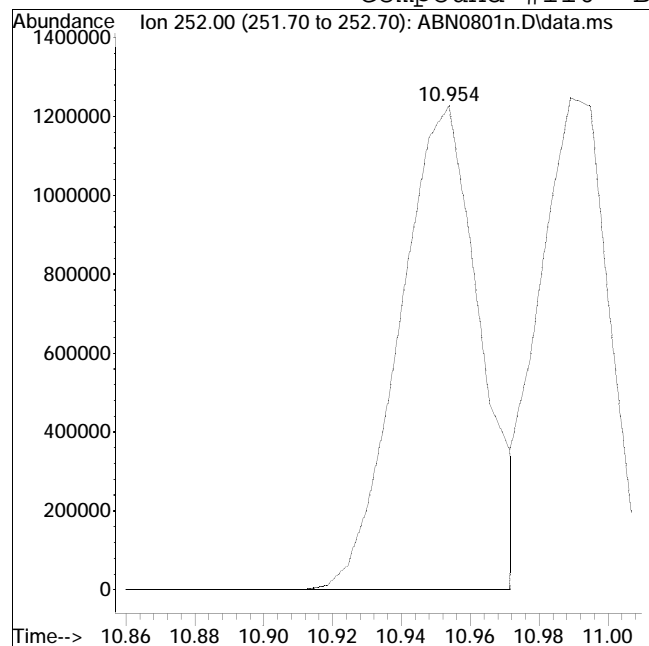
Manual Peak Response = 601985 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270\Juliet\230801n\ QMethod : FS230721Juliet.m
Data File : ABN0801n.D Operator : Juliet:jg
Date Inj'd : 8/1/2023 11:21 pm Instrument : Juliet
Sample : WG1810591-3,32,,ABN CCV LoQuant Date : 8/2/2023 12:07 pm

Compound #110: Benzo(b)fluoranthene



Original Peak Response = 2015305

Manual Peak Response = 2015680 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Juliet\230801n\
 Data File : AP90801n.D
 Acq On : 1 Aug 2023 11:44 pm
 Operator : Juliet:jg
 Sample : WG1810591-4,32,,AP9 CCV Lot # 10068
 Misc : WG1810591,,ical20193
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Aug 02 00:24:42 2023
 Quant Method : I:\8270\juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 00:24:04 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27 I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
28 T	Benzaldehyde	0.709	0.624	12.0	98	0.00
29 T	Acetophenone	1.507	1.466	2.7	97	0.00
30 T	m-Toluidine	1.296	1.168	9.9	97	0.00
31 T	2-Chloroaniline	1.518	1.482	2.4	101	0.00
55 I	IS2_Naphthalene-d8	1.000	1.000	0.0	97	0.00
56 T	a-Terpineol	0.186	0.179	3.8	91	0.00
57 T	3-Chloroaniline	0.100	0.099	1.0	92	0.00
58 T	2,6-Dichlorophenol	0.284	0.309	-8.8	101	0.00
59 T	1-chloro-2-nitrobenzene	0.129	0.132	-2.3	99	0.00
60 T	Caprolactam	0.109	0.095	12.8	86	0.00
61 T	1,2,4,5-Tetrachlorobenzene	0.366	0.404	-10.4	107	0.00
62 T	Biphenyl	0.815	0.833	-2.2	100	0.00
83 I	IS2_Acenaphthene-d10	1.000	1.000	0.0	96	0.00
84 T	Dichloran	0.209	0.241	-15.3	103	0.00
85 T	Pentachloronitrobenzene	0.190	0.212	-11.6	102	0.00
98 I	IS2_Phenanthrene-d10	1.000	1.000	0.0	99	0.00
99 T	Diphenamid	0.492	0.503	-2.2	99	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
 Data File : AP90801n.D
 Acq On : 1 Aug 2023 11:44 pm
 Operator : Juliet:jg
 Sample : WG1810591-4,32,,AP9 CCV Lot # 10068
 Misc : WG1810591,,ical20193
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Aug 02 00:24:42 2023
 Quant Method : I:\8270\juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 00:24:04 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	3.319	152	242524	40.000	ug/ml	0.00
55) IS2_Naphthalene-d8	4.407	136	843065	40.000	ug/ml	# 0.00
83) IS2_Acenaphthene-d10	5.919	164	502187	40.000	ug/ml	0.00
98) IS2_Phenanthrene-d10	7.189	188	1133653	40.000	ug/ml	# 0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	2.948	105	189094	43.966	ug/ml	90
29) Acetophenone	3.678	105	444337	48.616	ug/ml	93
30) m-Toluidine	3.754	106	354098	45.053	ug/ml	97
31) 2-Chloroaniline	4.066	127	449420	48.840	ug/ml	97
56) a-Terpineol	4.472	59	188485	48.021	ug/ml	87
57) 3-Chloroaniline	4.489	65	104679	49.772	ug/ml	80
58) 2,6-Dichlorophenol	4.507	162	325321	54.410	ug/ml	97
59) 1-chloro-2-nitrobenzene	4.731	111	139071	51.205	ug/ml	92
60) Caprolactam	4.789	55	100622	43.815	ug/ml#	84
61) 1,2,4,5-Tetrachloroben...	5.184	216	425453	55.208	ug/ml	98
62) Biphenyl	5.442	154	878251	51.139	ug/ml	99
84) Dichloran	6.936	206	151386	57.782	ug/ml#	80
85) Pentachloronitrobenzene	7.060	237	133282	55.790	ug/ml	94
99) Diphenamid	8.007	167	712629	51.111	ug/ml#	82

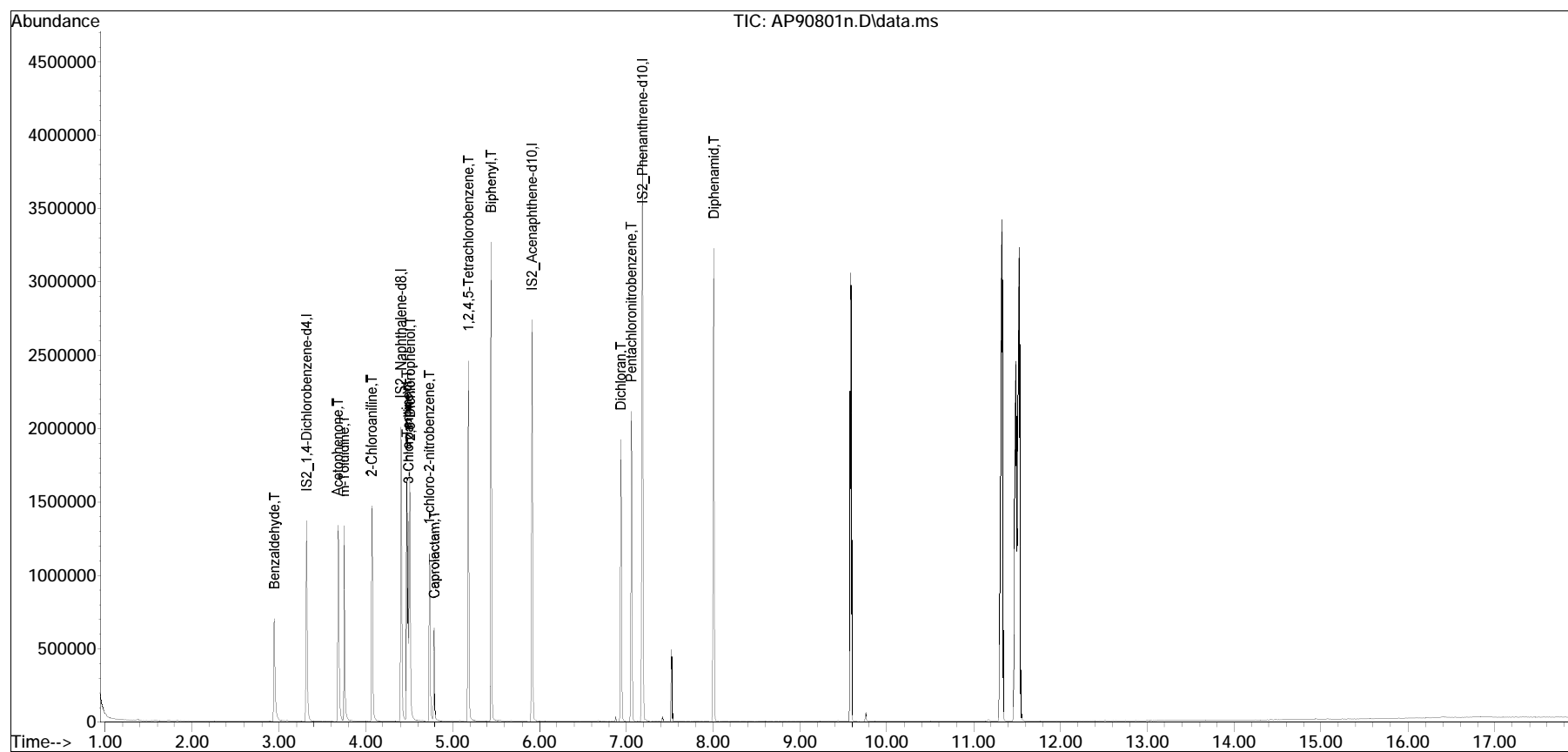
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

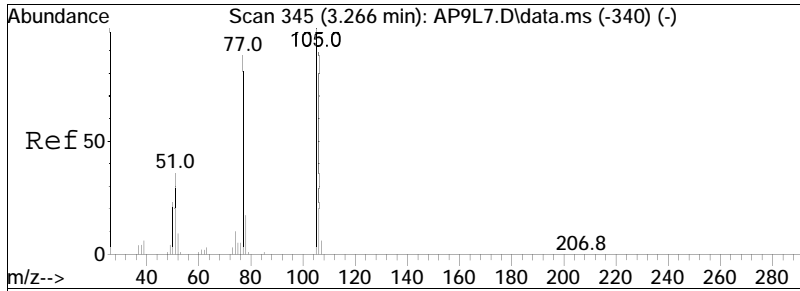
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
Data File : AP90801n.D
Acq On : 1 Aug 2023 11:44 pm
Operator : Juliet:jg
Sample : WG1810591-4,32,,AP9 CCV Lot # 10068
Misc : WG1810591,,ical20193
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Aug 02 00:24:42 2023
Quant Method : I:\8270\juliet\230801n\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 02 00:24:04 2023
Response via : Initial Calibration

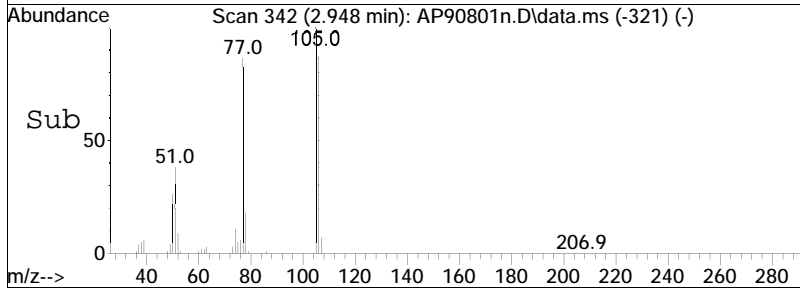
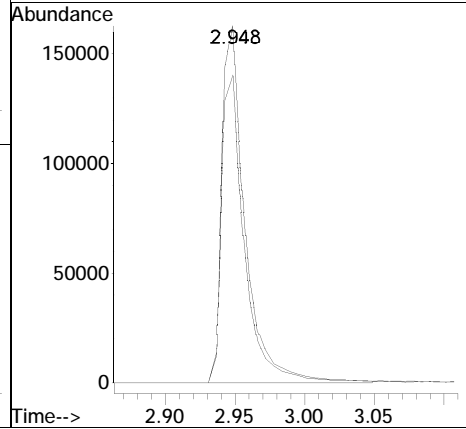
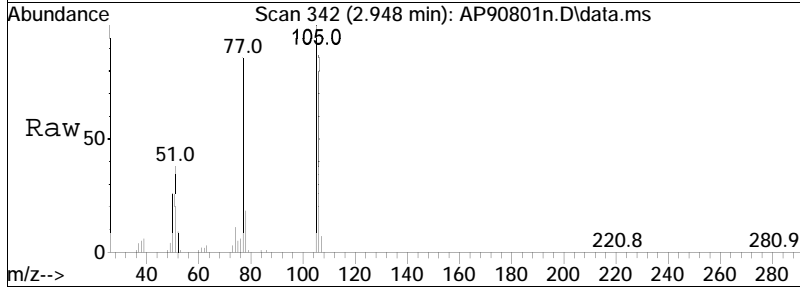
Sub List : AP9ical - AP9 ical sublist

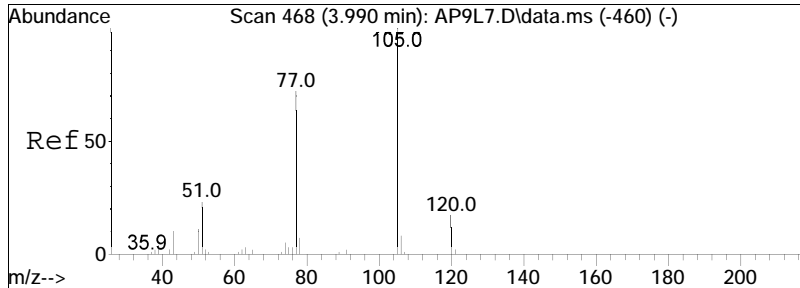




#28
 Benzaldehyde
 Concen: 43.97 ug/ml
 RT: 2.948 min Scan# 342
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 1 Aug 2023 11:44 pm

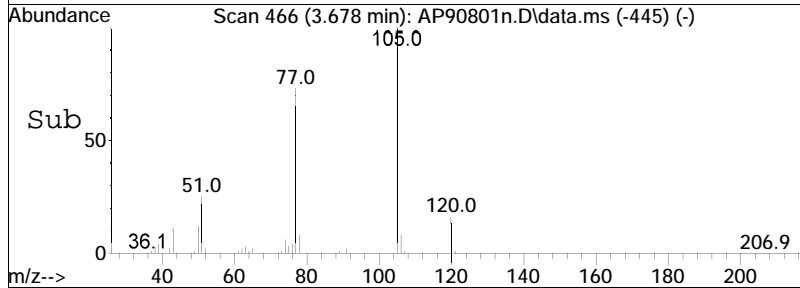
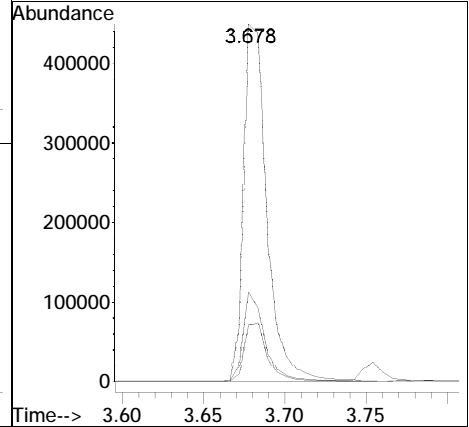
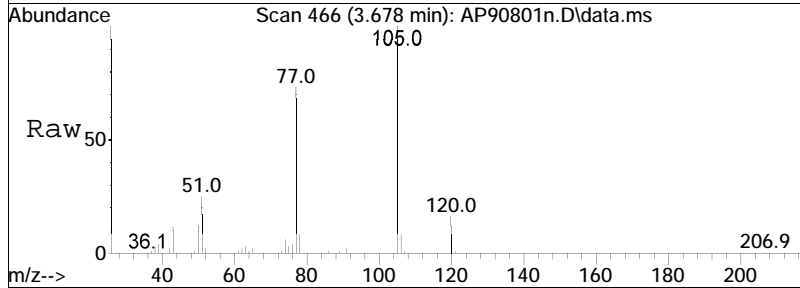
Tgt Ion:105 Resp: 189094
 Ion Ratio Lower Upper
 105 100
 77 85.8 76.4 114.6

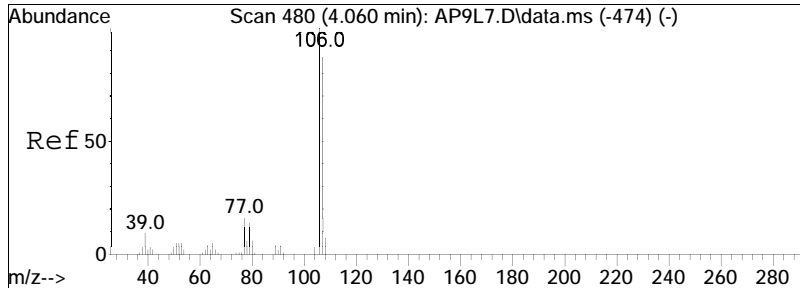




#29
 Acetophenone
 Concen: 48.62 ug/ml
 RT: 3.678 min Scan# 466
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 1 Aug 2023 11:44 pm

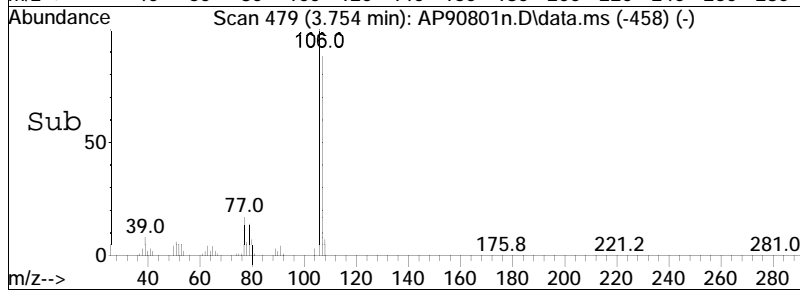
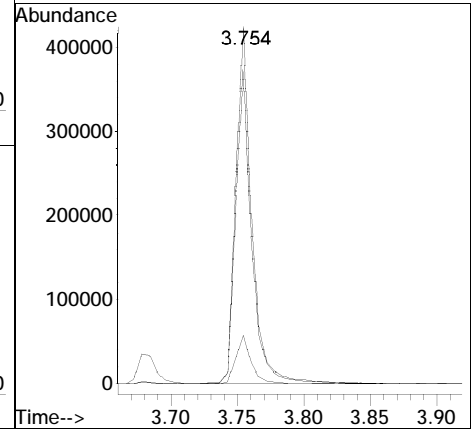
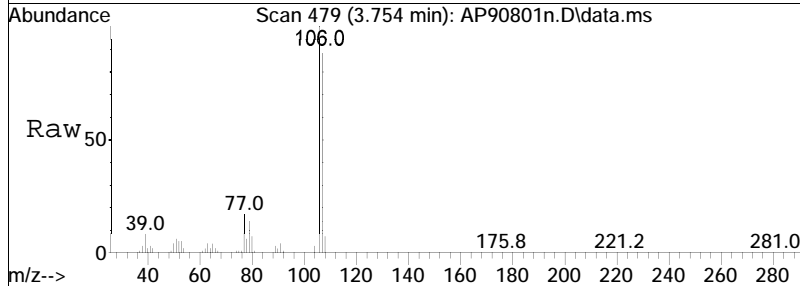
Tgt Ion	Ratio	Lower	Upper
105	100		
120	16.4	14.5	21.7
51	23.2	22.2	33.4

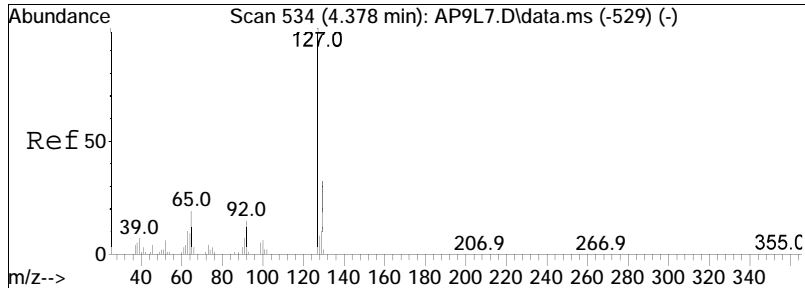




#30
 m-Toluidine
 Concen: 45.05 ug/ml
 RT: 3.754 min Scan# 479
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 1 Aug 2023 11:44 pm

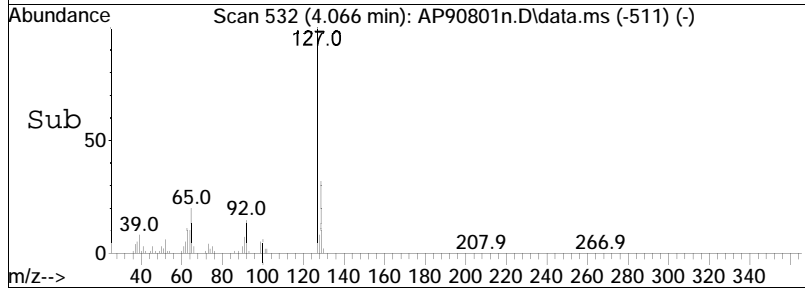
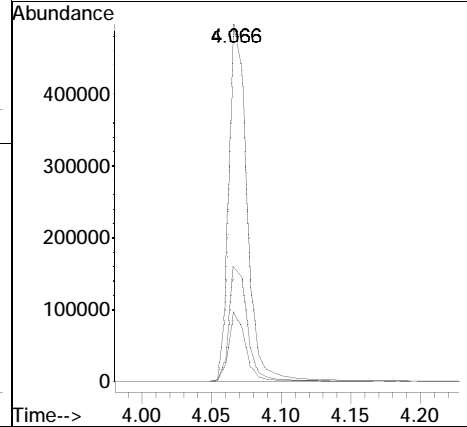
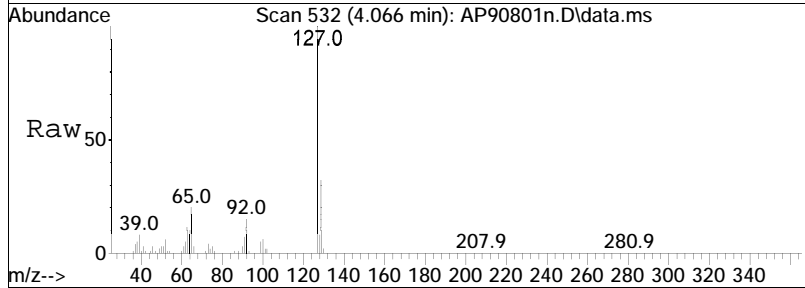
Tgt Ion	Resp	Lower	Upper
106	100		
107	88.2	72.6	108.8
79	13.4	12.1	18.1

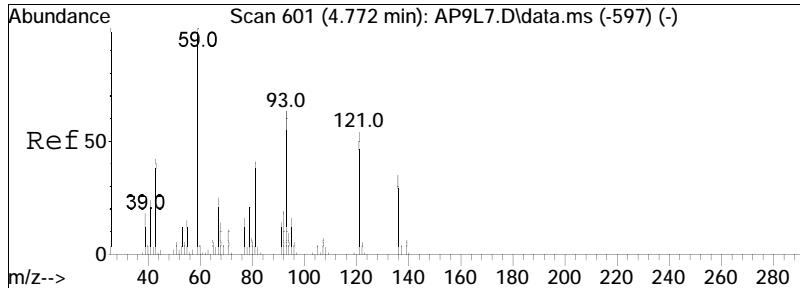




#31
 2-Chloroaniline
 Concen: 48.84 ug/ml
 RT: 4.066 min Scan# 532
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 1 Aug 2023 11:44 pm

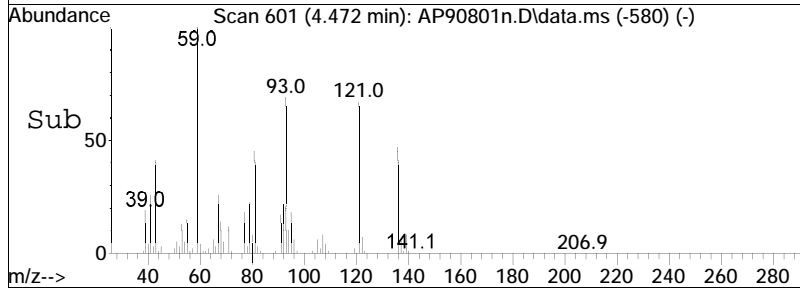
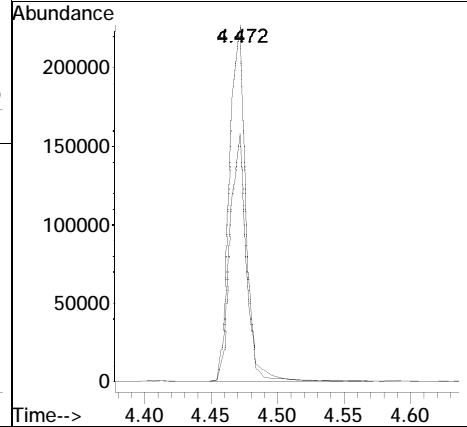
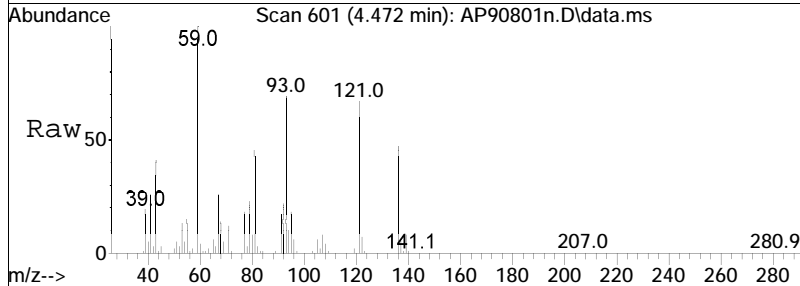
Tgt Ion	Ratio	Lower	Upper
127	100		
129	32.7	26.2	39.4
65	18.6	17.8	26.8

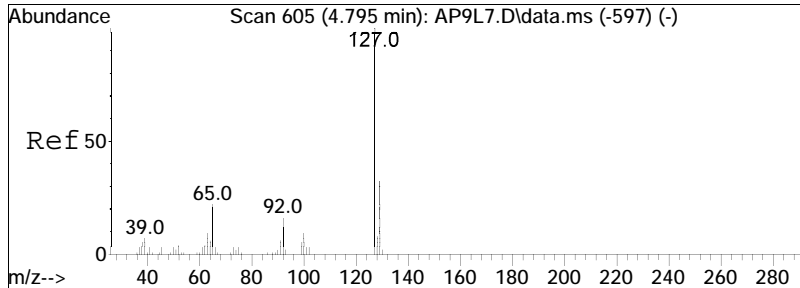




#56
 a-Terpineol
 Concen: 48.02 ug/ml
 RT: 4.472 min Scan# 601
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 1 Aug 2023 11:44 pm

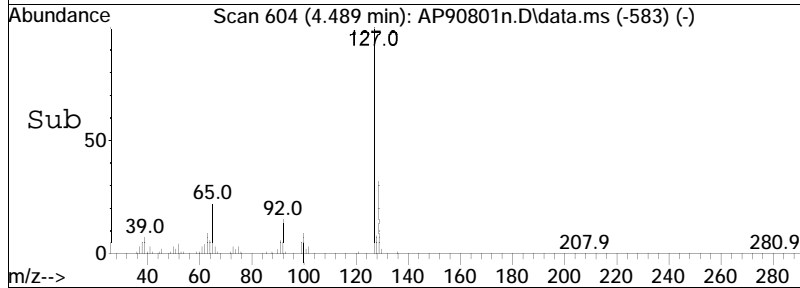
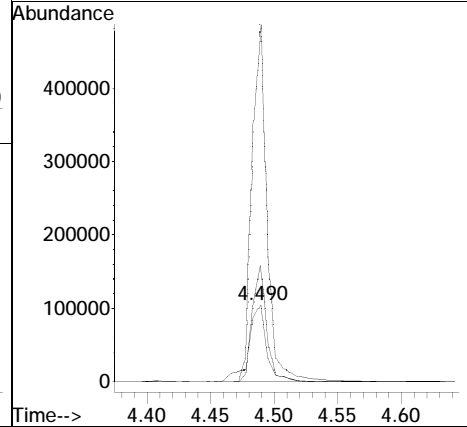
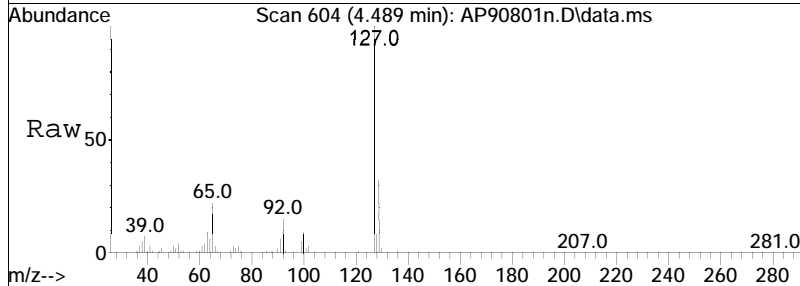
Tgt Ion:	Resp:	Lower	Upper
59	100		
93	70.6	48.6	73.0

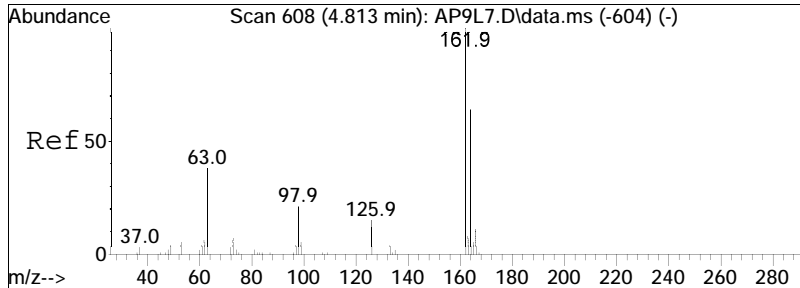




#57
 3-Chloroaniline
 Concen: 49.77 ug/ml
 RT: 4.489 min Scan# 604
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 1 Aug 2023 11:44 pm

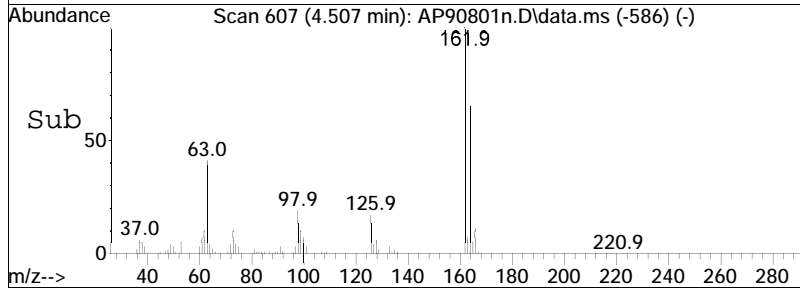
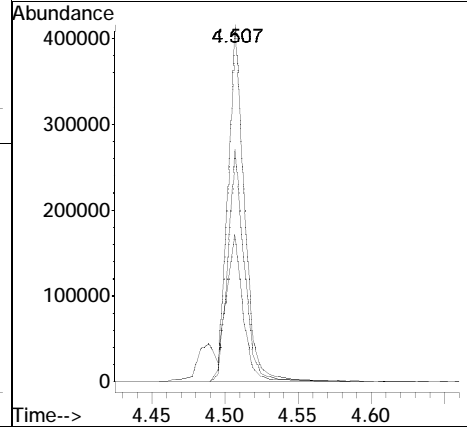
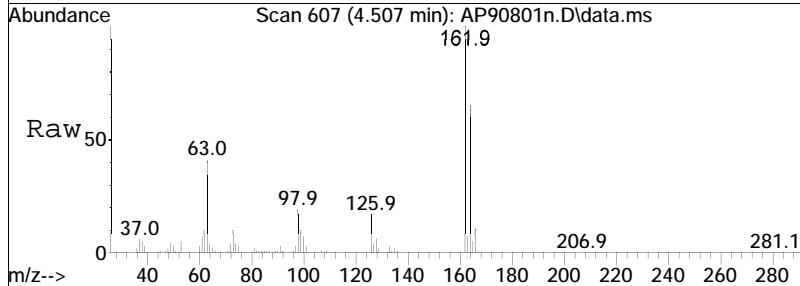
Tgt Ion:	Resp:	Lower	Upper
65	104679		
127	378.4	266.4	399.6
129	120.6	84.9	127.3

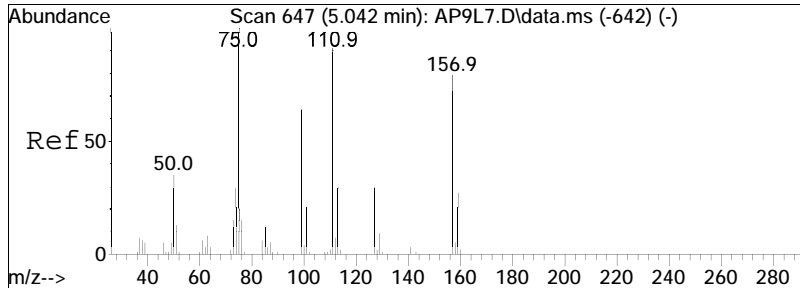




#58
 2,6-Dichlorophenol
 Concen: 54.41 ug/ml
 RT: 4.507 min Scan# 607
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 1 Aug 2023 11:44 pm

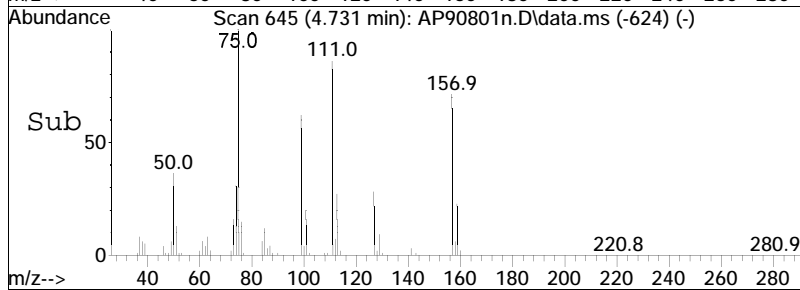
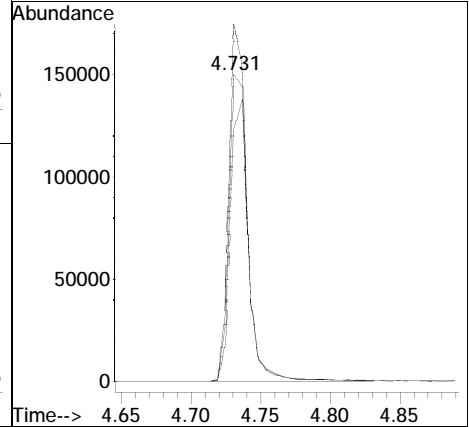
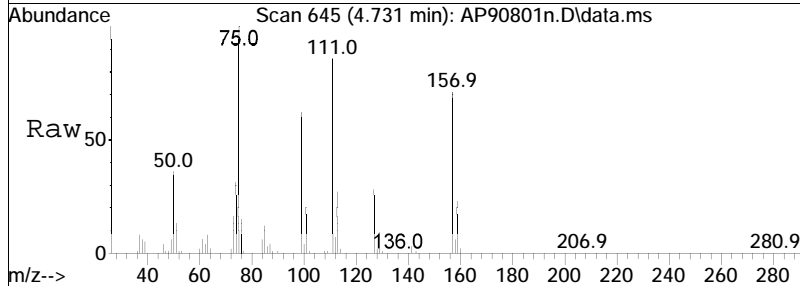
Tgt Ion	Ratio	Lower	Upper
162	100		
164	65.1	51.4	77.2
63	54.8	40.9	61.3

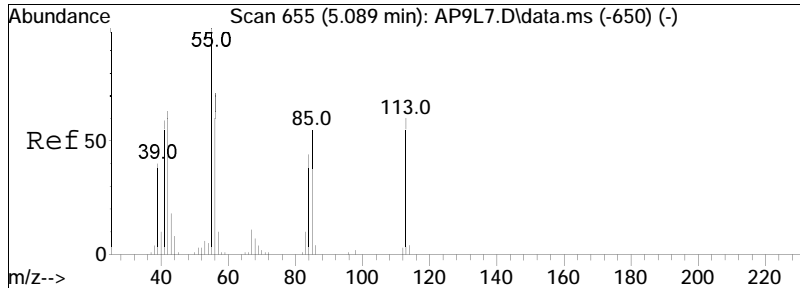




#59
 1-chloro-2-nitrobenzene
 Concen: 51.21 ug/ml
 RT: 4.731 min Scan# 645
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 1 Aug 2023 11:44 pm

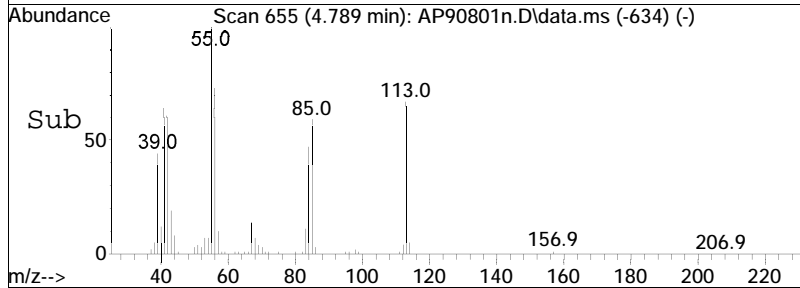
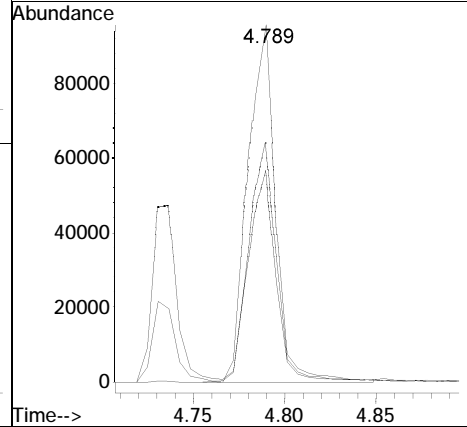
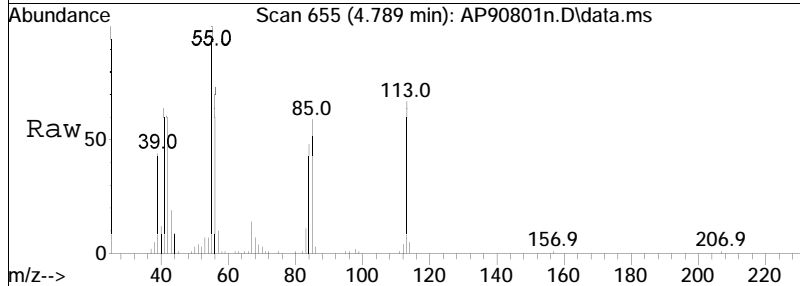
Tgt Ion	Resp	Lower	Upper
111	100		
157	88.3	61.9	92.9
75	111.9	93.6	140.4

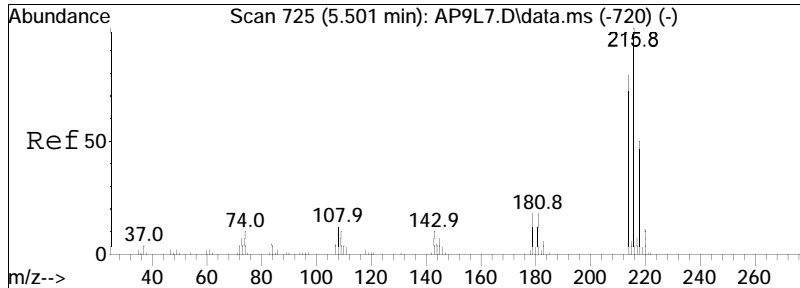




#60
 Caprolactam
 Concen: 43.81 ug/ml
 RT: 4.789 min Scan# 655
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 1 Aug 2023 11:44 pm

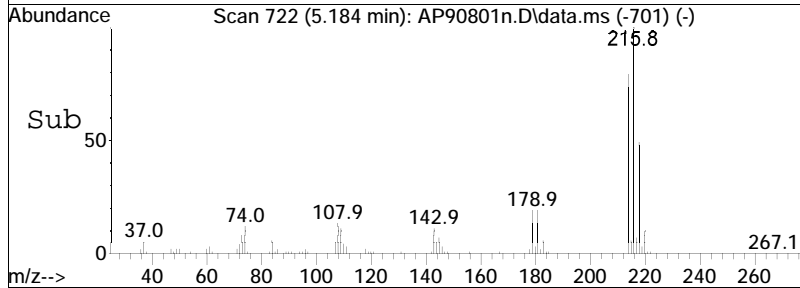
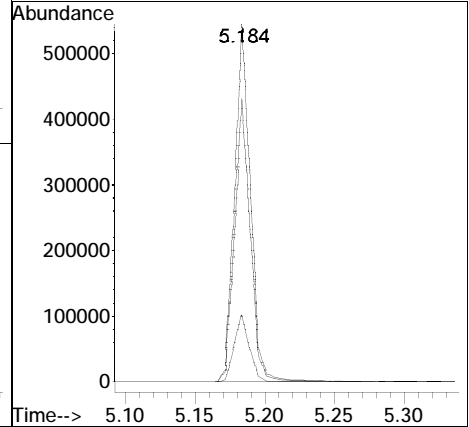
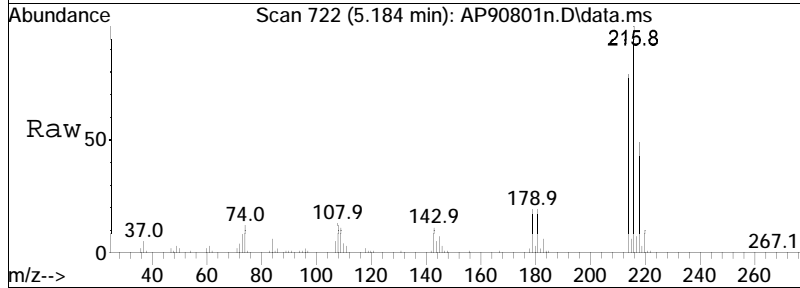
Tgt Ion	Resp	Lower	Upper
55	100		
85	58.7	40.2	60.2
113	67.3	42.8	64.2#

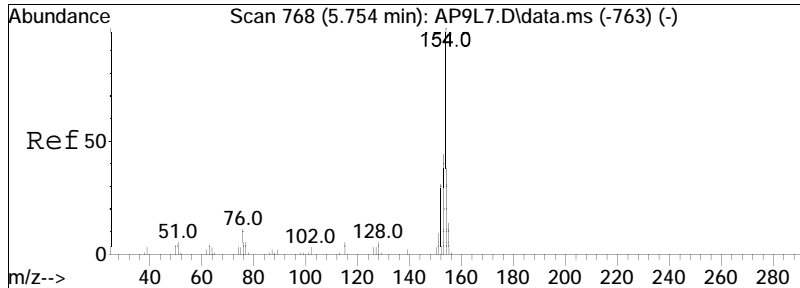




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 55.21 ug/ml
 RT: 5.184 min Scan# 722
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 1 Aug 2023 11:44 pm

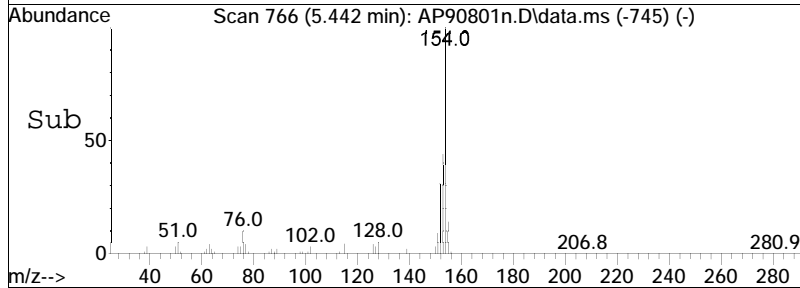
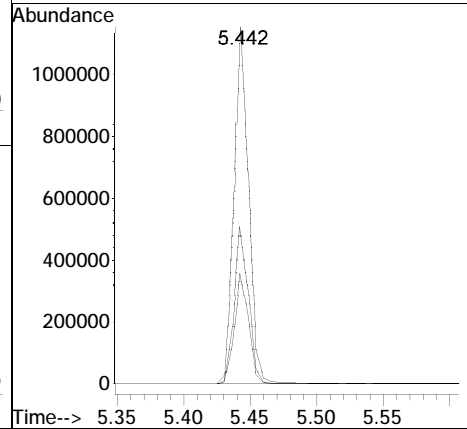
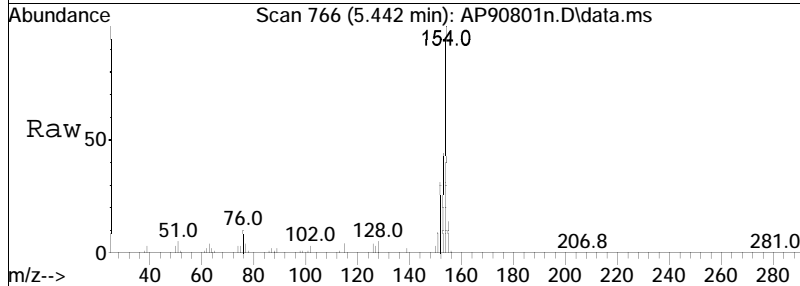
Tgt Ion	Ratio	Lower	Upper
216	100		
214	77.9	63.4	95.2
179	18.6	16.4	24.6

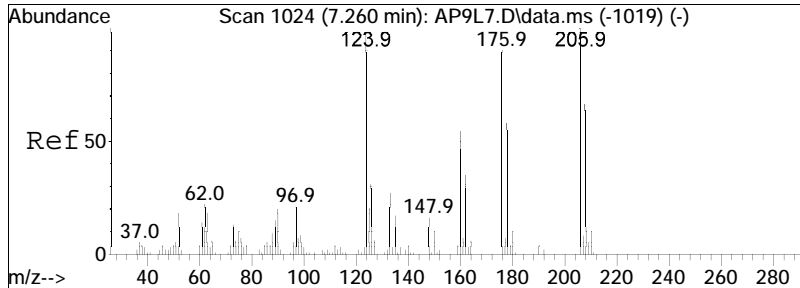




#62
 Biphenyl
 Concen: 51.14 ug/ml
 RT: 5.442 min Scan# 766
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 1 Aug 2023 11:44 pm

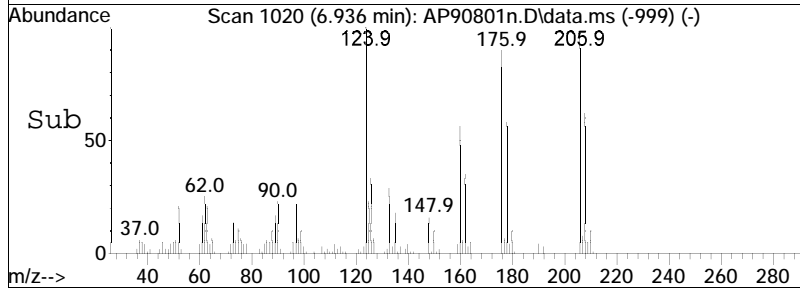
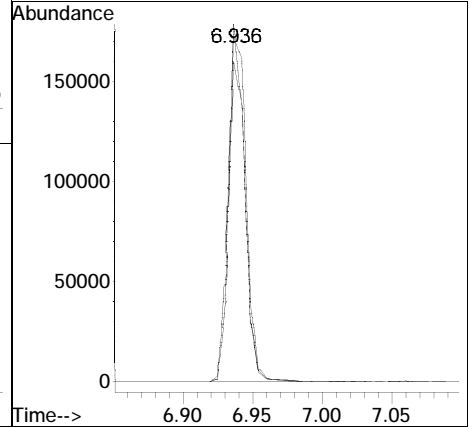
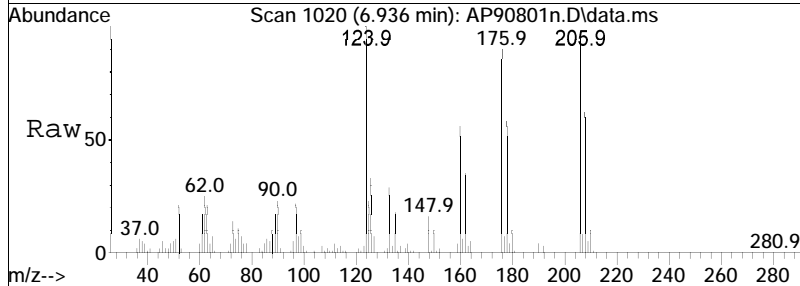
Tgt Ion	Resp	Lower	Upper
154	100		
153	43.7	34.7	52.1
152	30.6	24.0	36.0

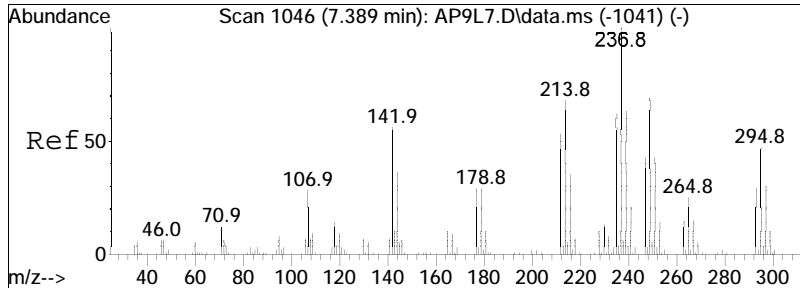




#84
 Dichloran
 Concen: 57.78 ug/ml
 RT: 6.936 min Scan# 1020
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 1 Aug 2023 11:44 pm

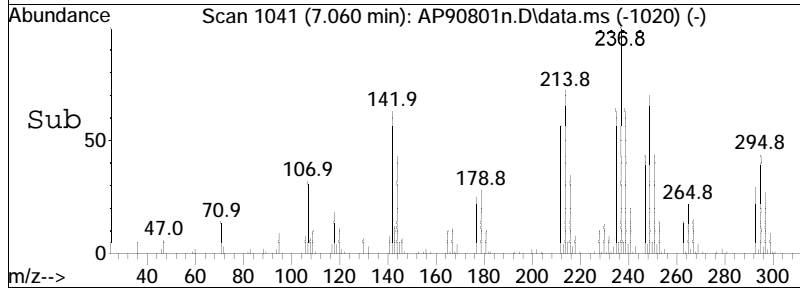
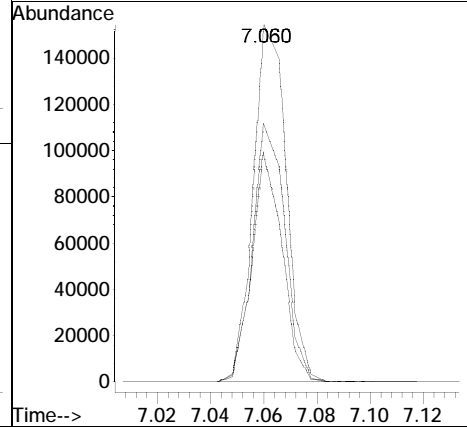
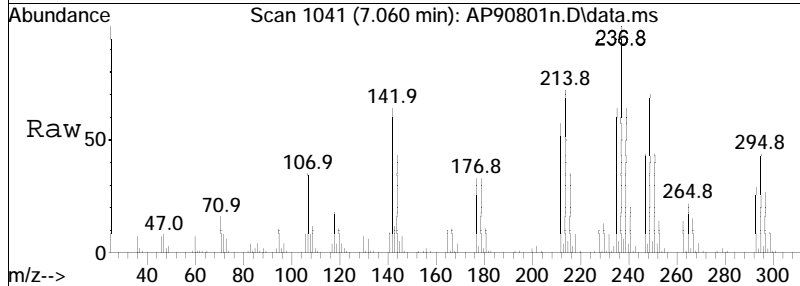
Tgt Ion	Ratio	Lower	Upper
206	100		
176	88.7	83.1	124.7
124	95.6	97.8	146.8#

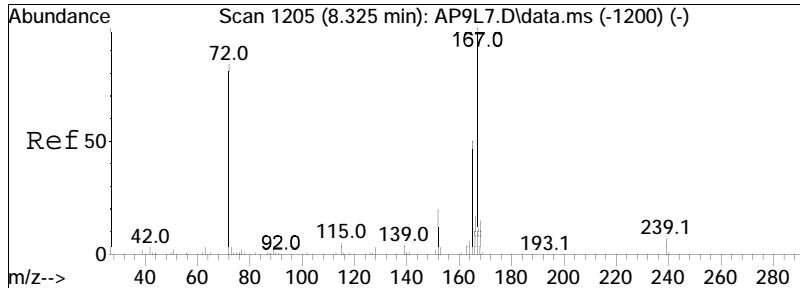




#85
 Pentachloronitrobenzene
 Concen: 55.79 ug/ml
 RT: 7.060 min Scan# 1041
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 1 Aug 2023 11:44 pm

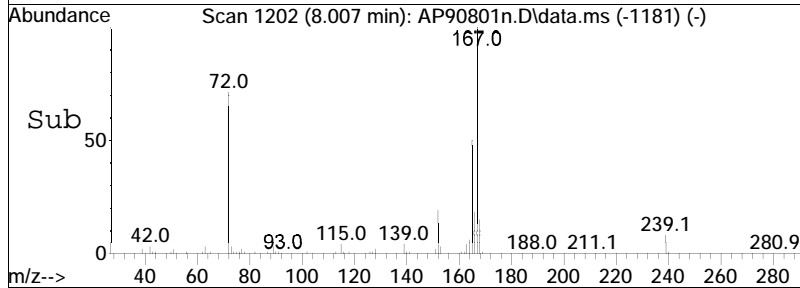
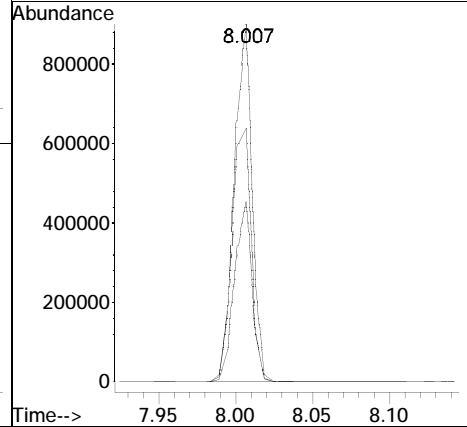
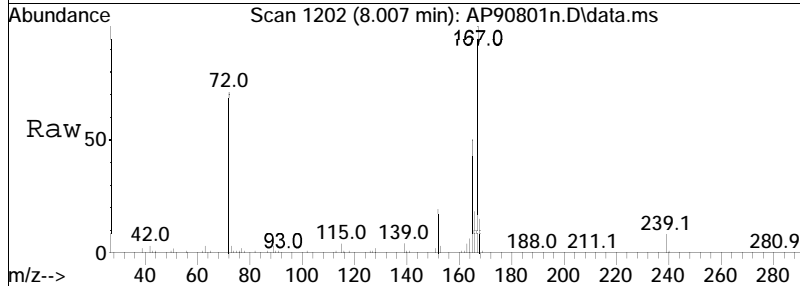
Tgt Ion	Resp	Lower	Upper
237	133282		
237	100		
142	59.1	53.6	80.4
214	70.5	58.6	87.8





#99
 Diphenamid
 Concen: 51.11 ug/ml
 RT: 8.007 min Scan# 1202
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 1 Aug 2023 11:44 pm

Tgt Ion	Resp	Lower	Upper
167	100		
72	76.9	82.6	124.0#
165	50.0	39.8	59.8



Manual Integration Report

Data Path : I:\8270\Juliet\230801n\ QMethod : FS230721Juliet.m
Data File : AP90801n.D Operator : Juliet:jg
Date Inj'd : 8/1/2023 11:44 pm Instrument : Juliet
Sample : WG1810591-4,32,,AP9 CCV LoQuant Date : 8/2/2023 0:24 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Juliet\230801n\
 Data File : ADP0801n.D
 Acq On : 2 Aug 2023 12:08 am
 Operator : Juliet:jg
 Sample : WG1810591-5,32,,ADP CCV Lot # 10057
 Misc : WG1810591,,ical20193
 ALS Vial : 98 Sample Multiplier: 1

Quant Time: Aug 02 00:29:53 2023
 Quant Method : I:\8270\juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 00:29:16 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32 I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
33 T	1,4-Dioxane	0.377	0.345	8.5	88	0.00
34 T	n-Decane	0.824	0.740	10.2	82	0.00
86 I	IS3_Acenaphthene-d10	1.000	1.000	0.0	86	0.00
87 T	Atrazine	0.430	0.438	-1.9	84	0.00
100 I	IS3_Phenanthrene-d10	1.000	1.000	0.0	86	0.00
101 T	n-Octadecane	0.267	0.236	11.6	74	0.00
102 T	Parathion	* 50.000	44.724	10.6	80	0.00
103 T	3,3'-Dimethylbenzidine	0.868	0.905	-4.3	83	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
 Data File : ADP0801n.D
 Acq On : 2 Aug 2023 12:08 am
 Operator : Juliet:jg
 Sample : WG1810591-5,32,,ADP CCV Lot # 10057
 Misc : WG1810591,,ical20193
 ALS Vial : 98 Sample Multiplier: 1

Quant Time: Aug 02 00:29:53 2023
 Quant Method : I:\8270\juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 00:29:16 2023
 Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	3.322	152	233446	40.000	ug/ml	0.00
86) IS3_Acenaphthene-d10	5.922	164	513461	40.000	ug/ml	0.00
100) IS3_Phenanthrene-d10	7.186	188	1127462	40.000	ug/ml	# 0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.075	88	100690	45.779	ug/ml	94
34) n-Decane	3.222	57	215994	44.942	ug/ml#	93
87) Atrazine	7.016	200	281186	50.924	ug/ml	97
101) n-Octadecane	7.192	57	332078	44.153	ug/ml	94
102) Parathion	7.904	109	163017	44.724	ug/ml	94
103) 3,3'-Dimethylbenzidine	9.033	212	1275855	52.152	ug/ml	99

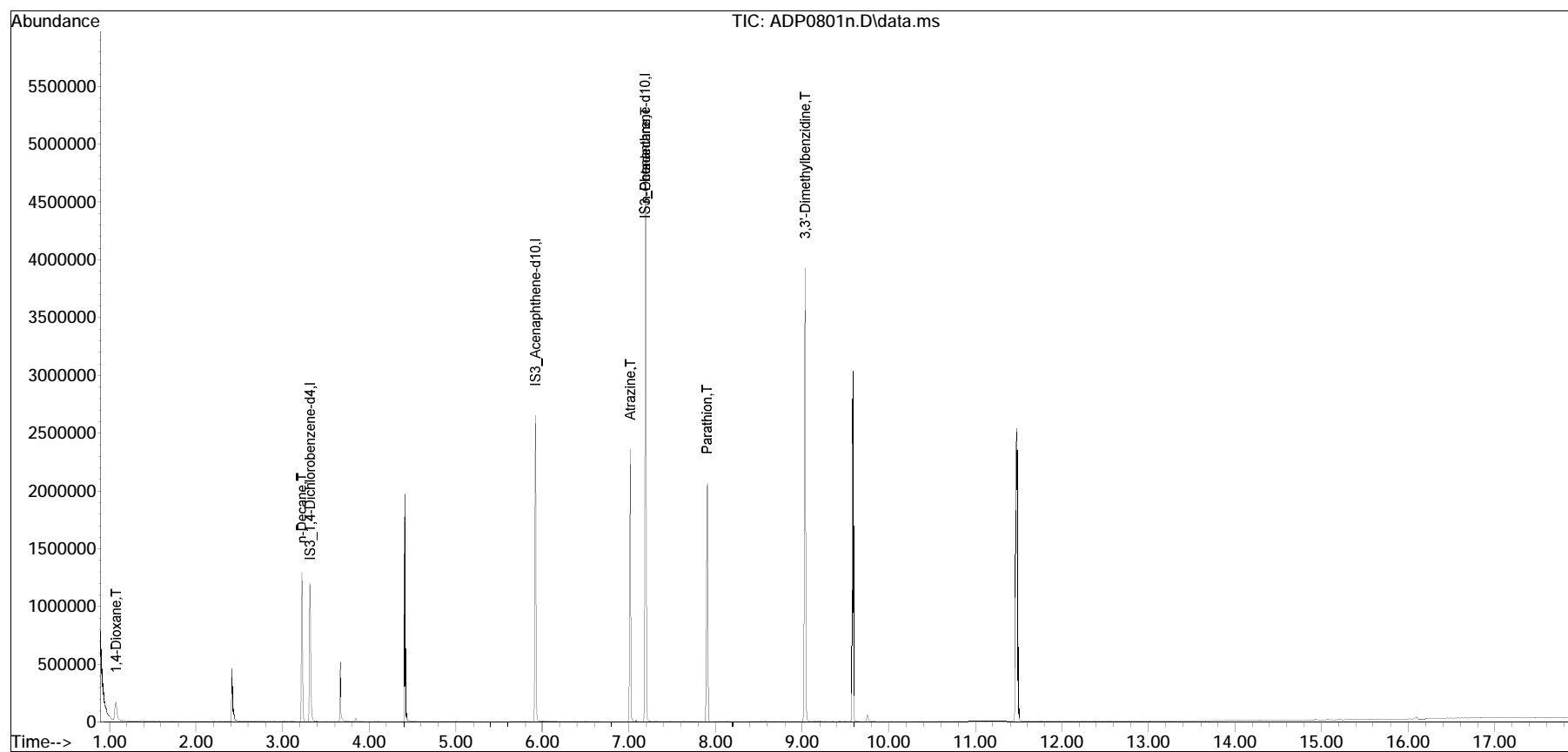
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

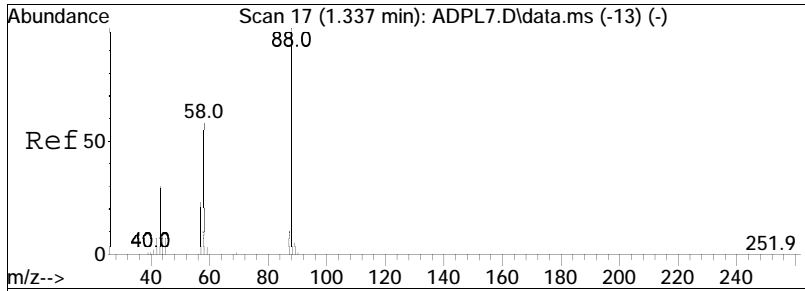
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
Data File : ADP0801n.D
Acq On : 2 Aug 2023 12:08 am
Operator : Juliet:jg
Sample : WG1810591-5,32,,ADP CCV Lot # 10057
Misc : WG1810591,,ical20193
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Aug 02 00:29:53 2023
Quant Method : I:\8270\juliet\230801n\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 02 00:29:16 2023
Response via : Initial Calibration

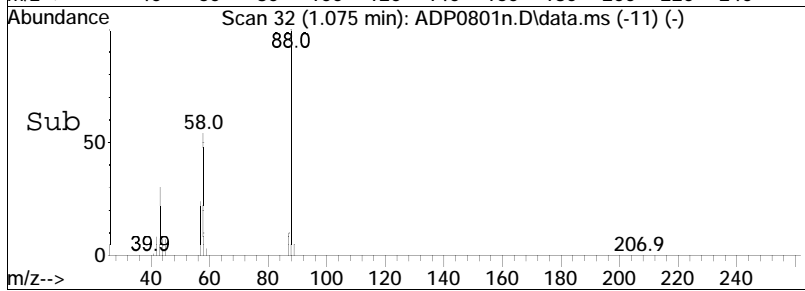
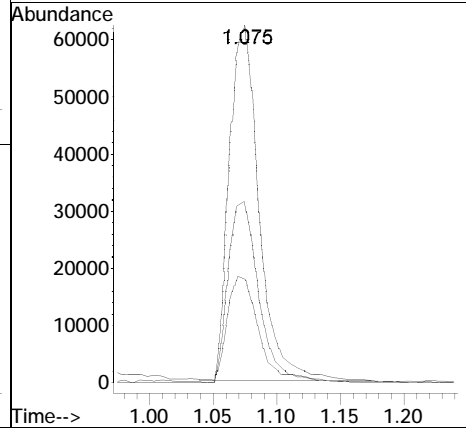
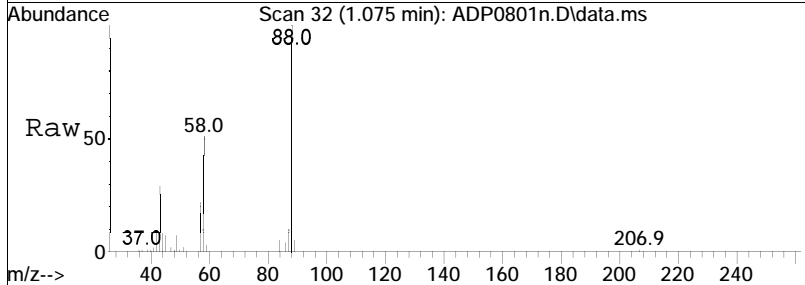
Sub List : ADPical_REV2 - ADP sublist

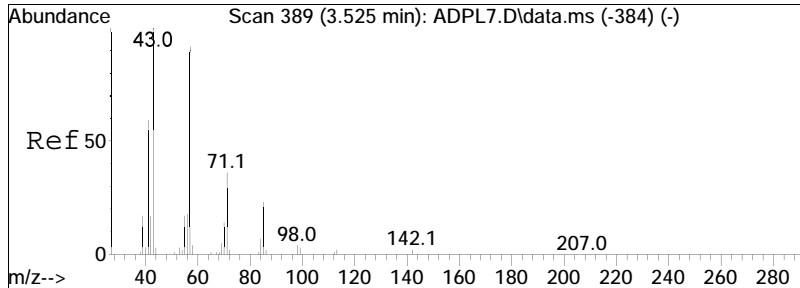




#33
 1,4-Dioxane
 Concen: 45.78 ug/ml
 RT: 1.075 min Scan# 32
 Delta R.T. 0.000 min
 Lab File: ADP0801n.D
 Acq: 2 Aug 2023 12:08 am

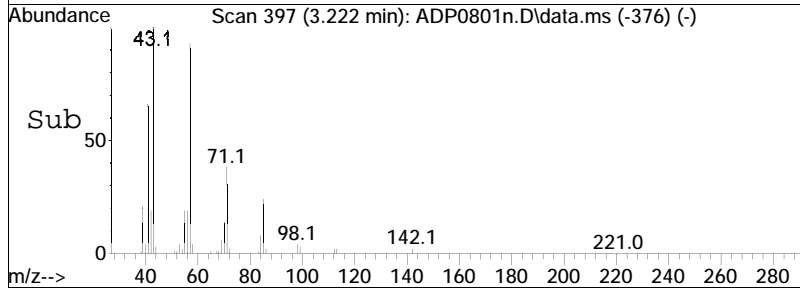
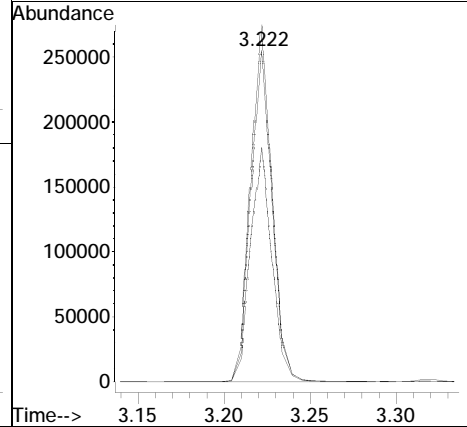
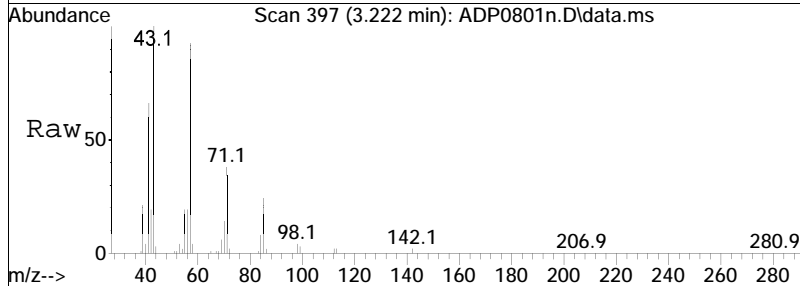
Tgt Ion	Ratio	Lower	Upper
88	100		
58	53.0	44.8	67.2
43	32.6	22.4	33.6

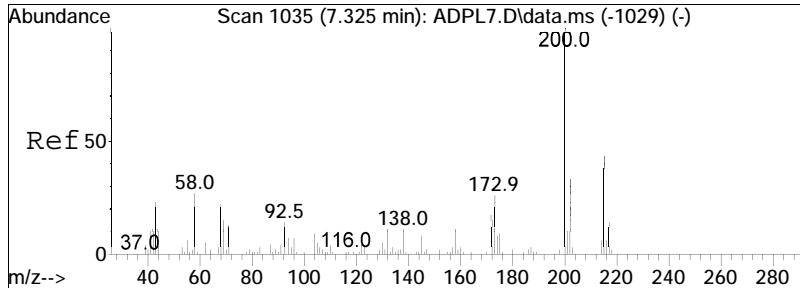




#34
 n-Decane
 Concen: 44.94 ug/ml
 RT: 3.222 min Scan# 397
 Delta R.T. 0.000 min
 Lab File: ADP0801n.D
 Acq: 2 Aug 2023 12:08 am

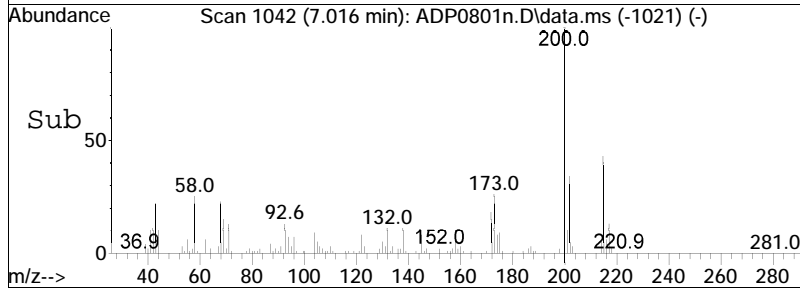
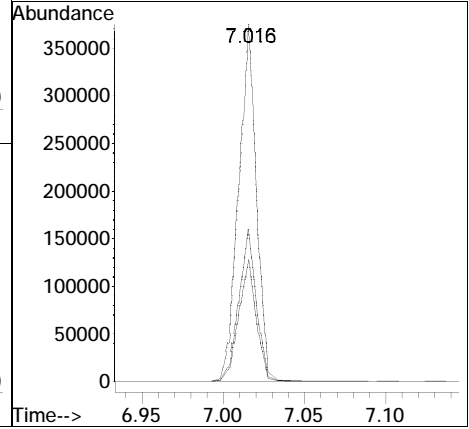
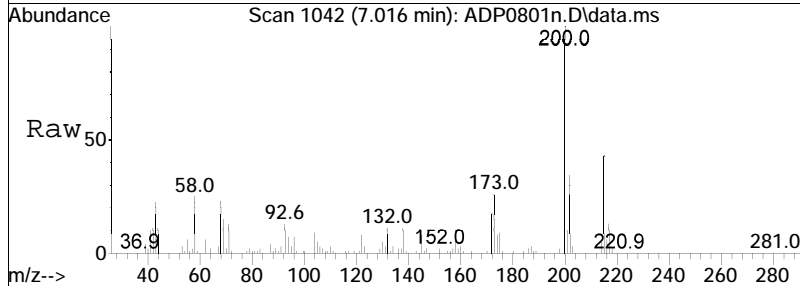
Tgt Ion	Resp	Lower	Upper
57	100		
43	108.6	87.7	131.5
41	71.7	46.0	69.0#

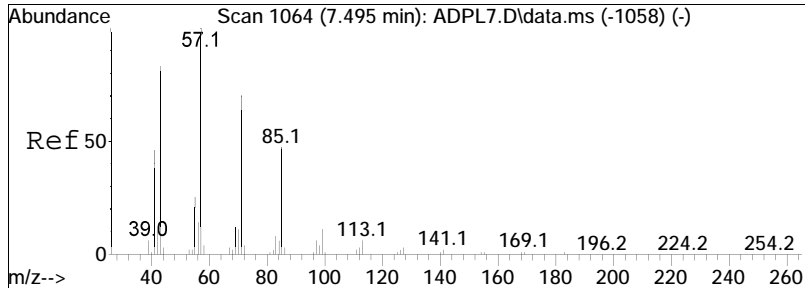




#87
 Atrazine
 Concen: 50.92 ug/ml
 RT: 7.016 min Scan# 1042
 Delta R.T. 0.000 min
 Lab File: ADP0801n.D
 Acq: 2 Aug 2023 12:08 am

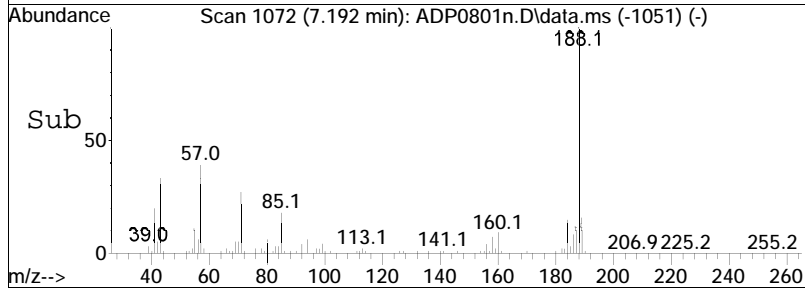
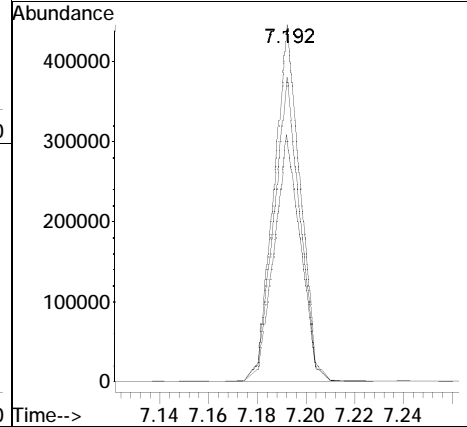
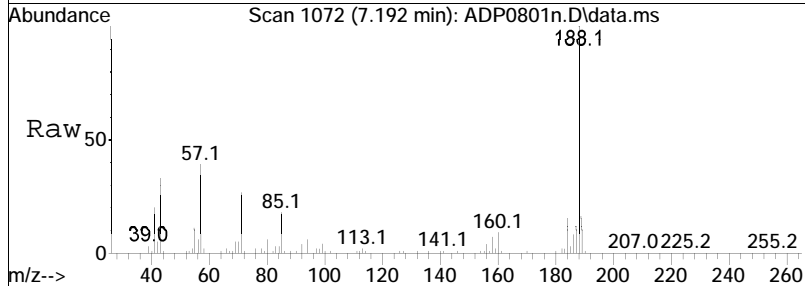
Tgt Ion	Ratio	Lower	Upper
200	100		
202	33.9	26.5	39.7
215	42.2	35.8	53.6

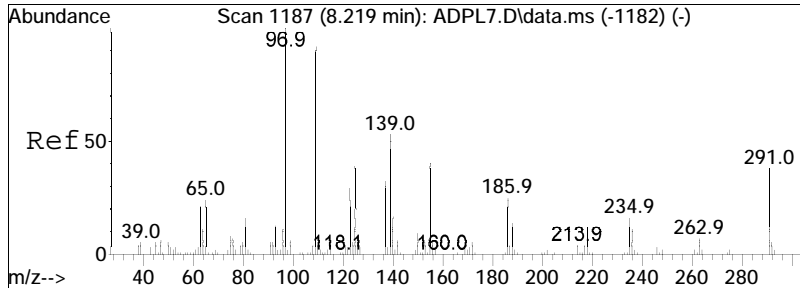




#101
 n-Octadecane
 Concen: 44.15 ug/ml
 RT: 7.192 min Scan# 1072
 Delta R.T. 0.000 min
 Lab File: ADP0801n.D
 Acq: 2 Aug 2023 12:08 am

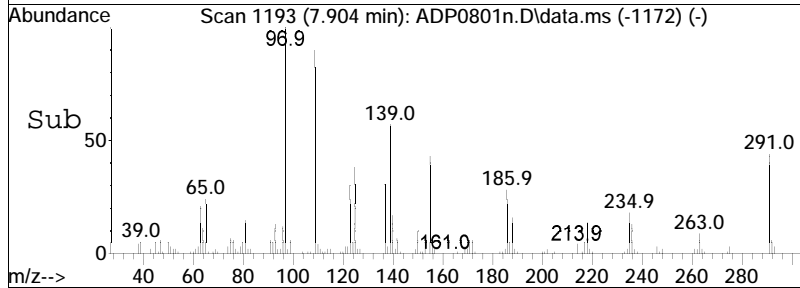
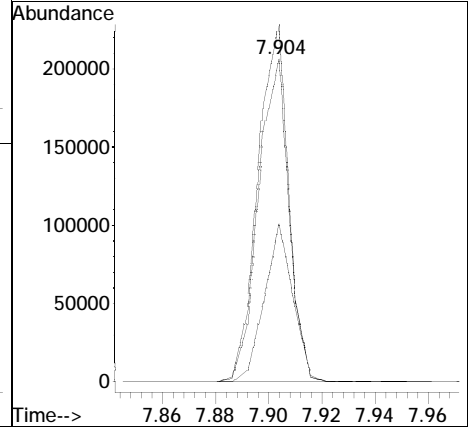
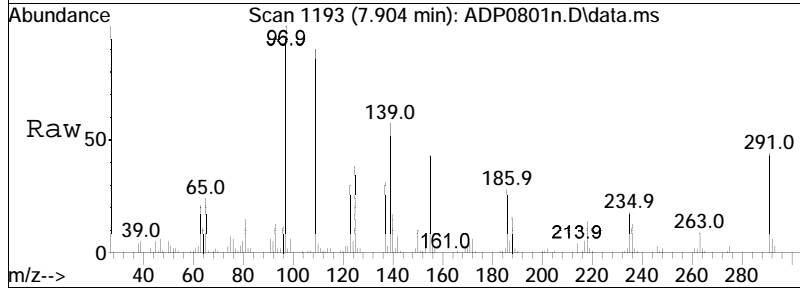
Tgt Ion	Resp	Lower	Upper
57	100		
43	84.6	64.6	96.8
71	69.5	49.9	74.9

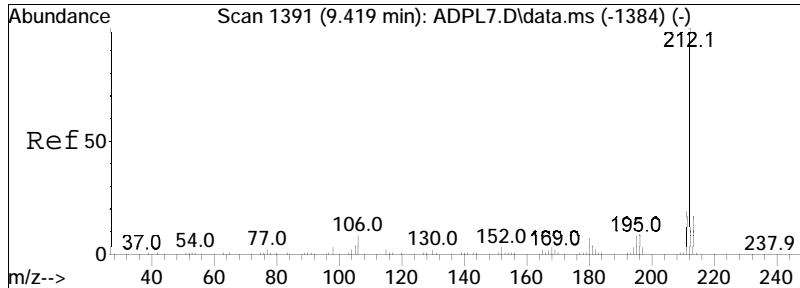




#102
 Parathion
 Concen: 44.72 ug/ml
 RT: 7.904 min Scan# 1193
 Delta R.T. 0.000 min
 Lab File: ADP0801n.D
 Acq: 2 Aug 2023 12:08 am

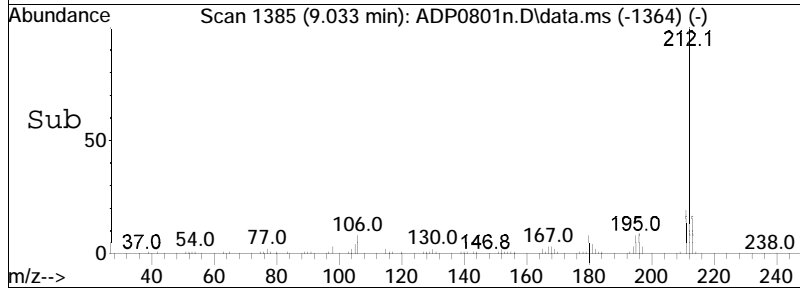
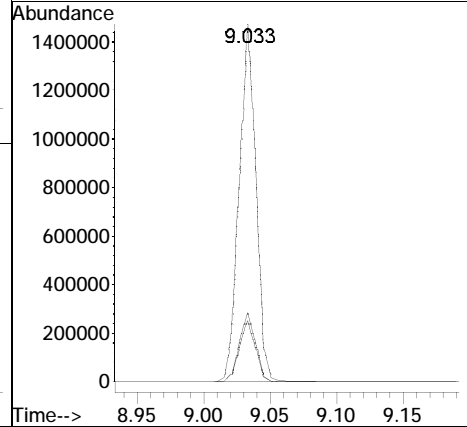
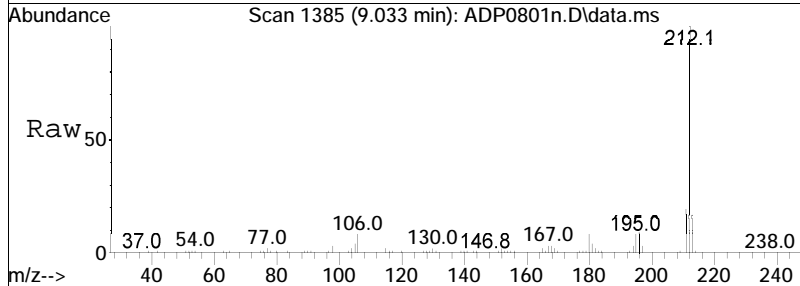
Tgt Ion	Resp	Lower	Upper
109	163017		
109	100		
97	111.6	83.4	125.2
291	45.9	34.2	51.4





#103
 3,3'-Dimethylbenzidine
 Concen: 52.15 ug/ml
 RT: 9.033 min Scan# 1385
 Delta R.T. 0.000 min
 Lab File: ADP0801n.D
 Acq: 2 Aug 2023 12:08 am

Tgt Ion	Ratio	Lower	Upper
212	100		
211	19.1	15.3	22.9
213	16.8	14.3	21.5



Manual Integration Report

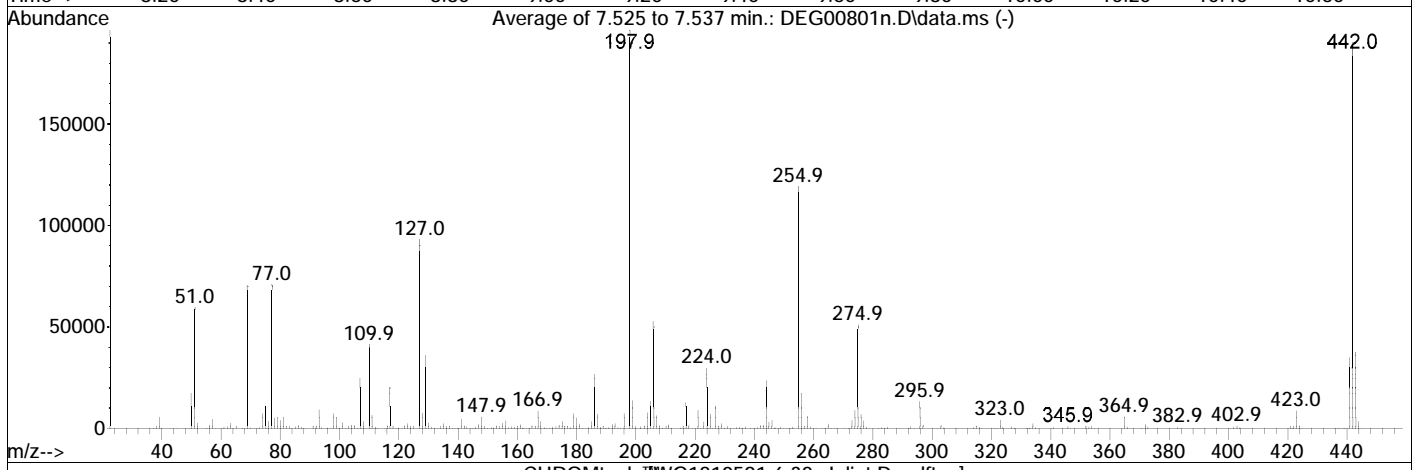
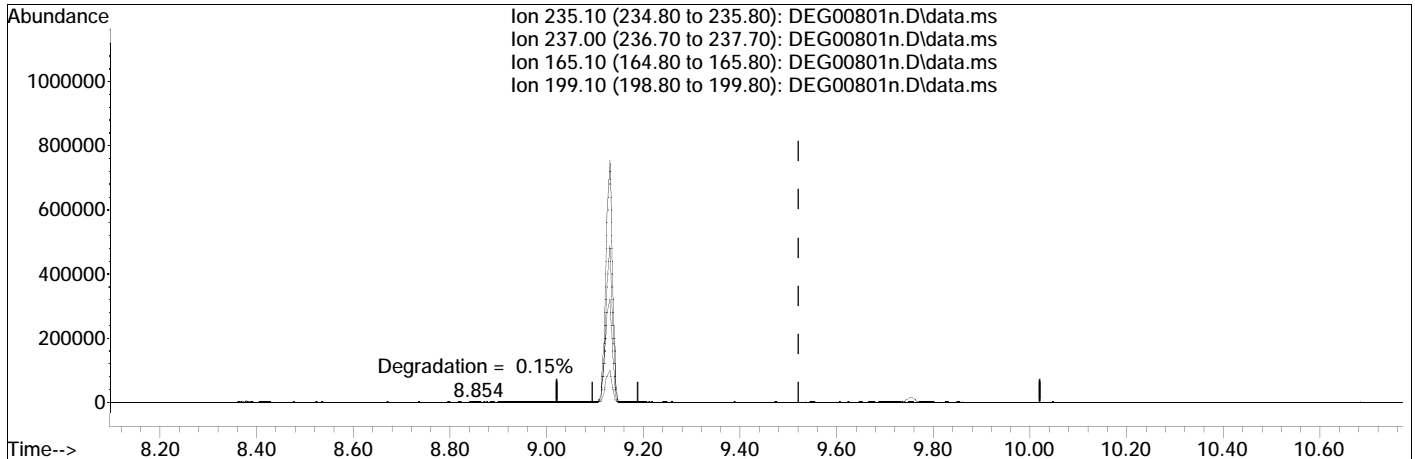
Data Path : I:\8270\Juliet\230801n\ QMethod : FS230721Juliet.m
Data File : ADP0801n.D Operator : Juliet:jg
Date Inj'd : 8/2/2023 12:08 am Instrument : Juliet
Sample : WG1810591-5,32,,ADP CCV LoQuant Date : 8/2/2023 0:29 am

There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\Juliet\230801n\
 Data File : DEG00801n.D
 Acq On : 1 Aug 2023 10:57 pm
 Operator : Juliet:jg
 Sample : WG1810591-2,32,,Juliet Degdftpp
 Misc : WG1810591,,ical20193
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Aug 01 23:18:38 2023
 Quant Method : I:\8270\Juliet\230801n\DftppJuliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jul 24 11:57:55 2023
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



CHROMtools [WG1810591-6,32,,Juliet Degdftpp]

(6) DDT (T)
 9.131min (-0.391) 112.88
 response 688065

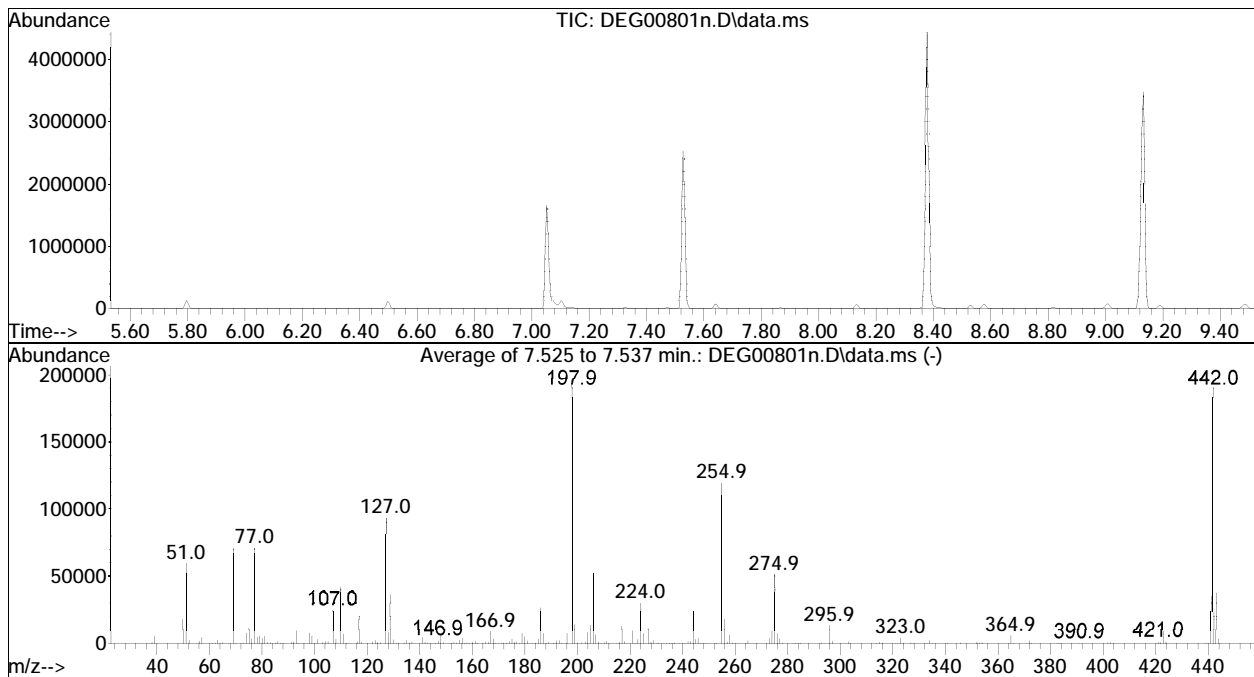
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.90	65.29
165.10	48.90	44.81
199.10	15.00	13.60

DFTPP

Data Path : I:\8270\Juliet\230801n\
 Data File : DEG00801n.D
 Acq On : 1 Aug 2023 10:57 pm
 Operator : Juliet: ASK
 Sample : WG1810591-1,32,,Juliet Degdftpp
 Misc : WG1810591,,ical20193
 ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\juliet\230801n\FS230721Juliet.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Aug 02 00:29:14 2023



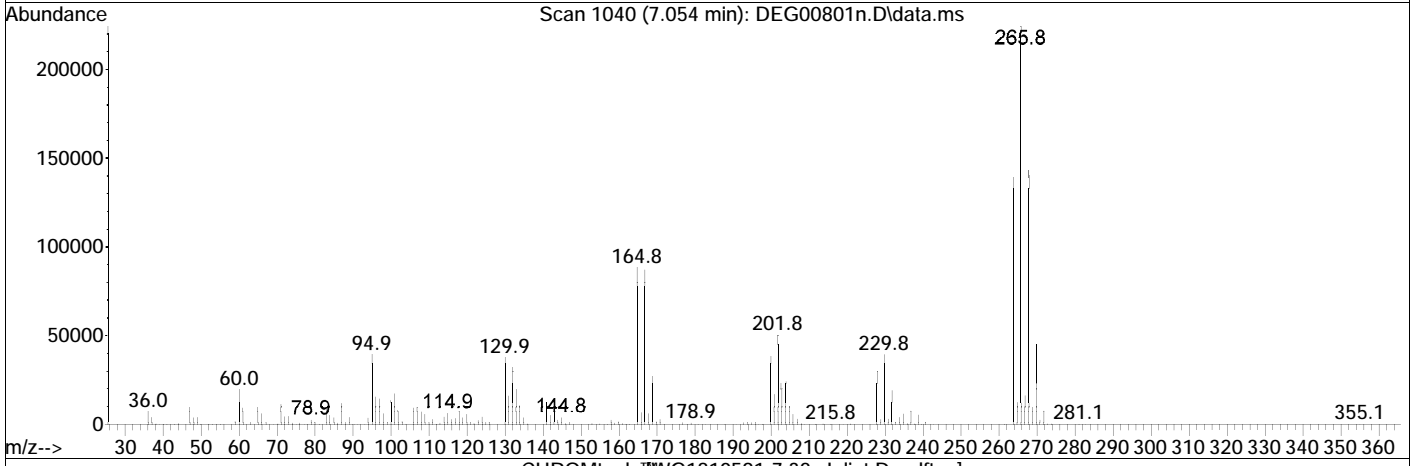
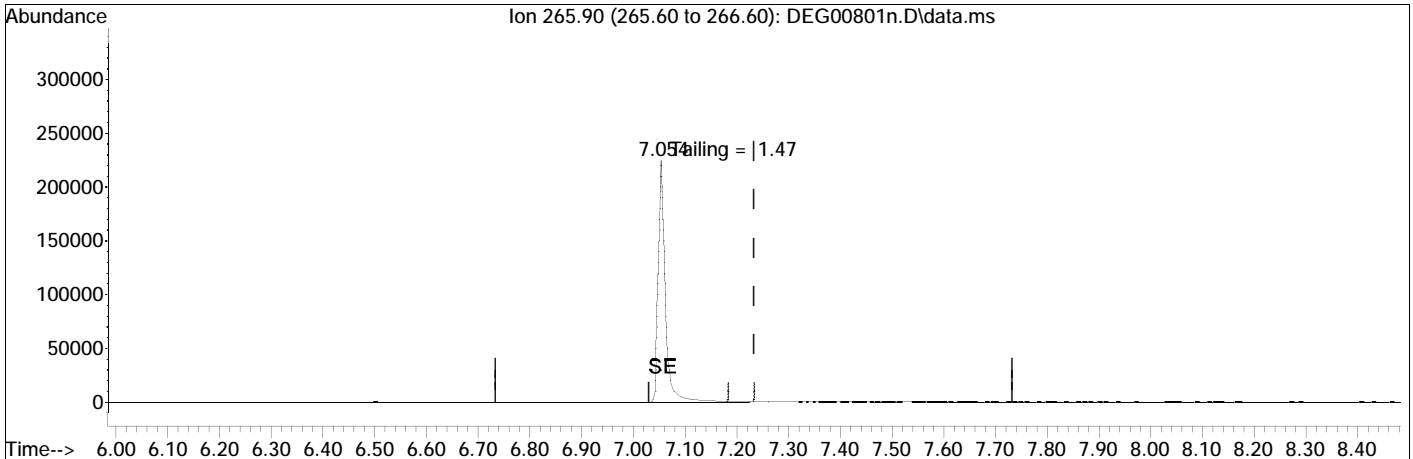
Spectrum Information: Average of 7.525 to 7.537 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	30.3	59525	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	70291	PASS
70	69	0.00	2	0.6	450	PASS
127	198	10	80	47.5	93176	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	196307	PASS
199	198	5	9	7.0	13676	PASS
275	198	10	60	26.1	51139	PASS
365	198	1	100	3.0	5860	PASS
441	442	0.01	24	18.4	35005	PASS
442	198	50	100	96.9	190187	PASS
443	442	15	24	19.5	37173	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Juliet\230801n\
 Data File : DEG00801n.D
 Acq On : 1 Aug 2023 10:57 pm
 Operator : Juliet:jg
 Sample : WG1810591-7,32,,Juliet Degdftpp
 Misc : WG1810591,,ical20193
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Aug 01 23:18:38 2023
 Quant Method : I:\8270\Juliet\230801n\DftppJuliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jul 24 11:57:55 2023
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



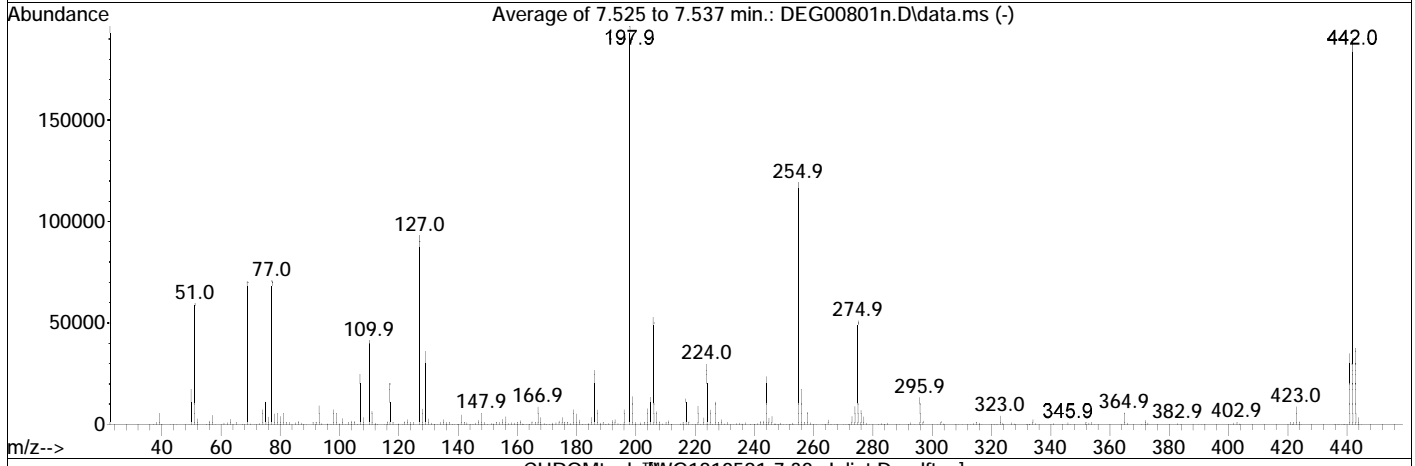
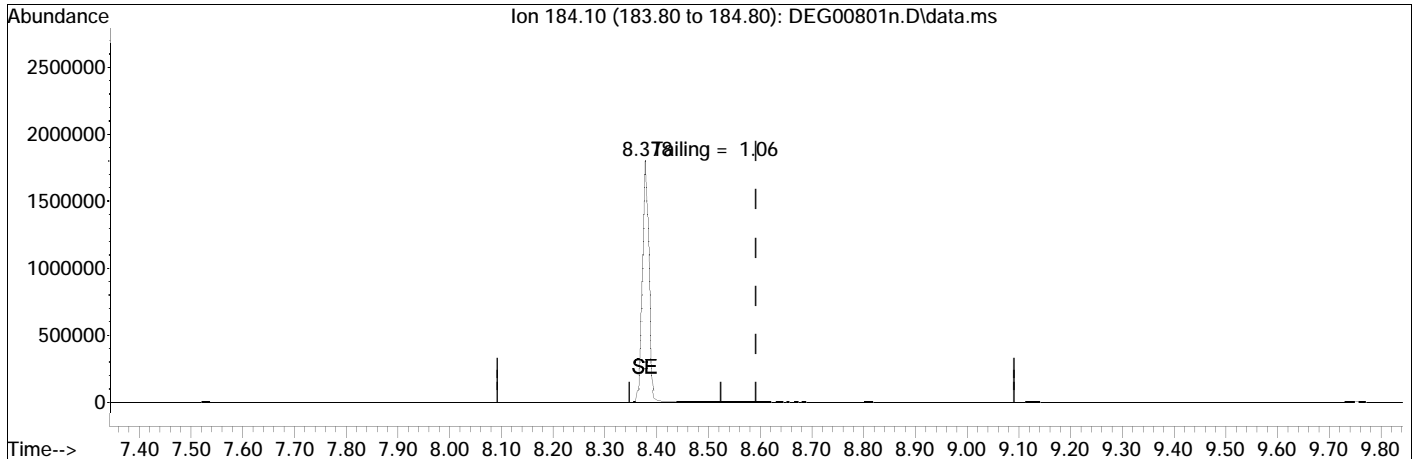
CHROMtools [WG1810591-7,32,,Juliet Degdftpp]

(1) Pentachlorophenol (T)		
7.054min (-0.179) 99.49		
response 208959		
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Juliet\230801n\
 Data File : DEG00801n.D
 Acq On : 1 Aug 2023 10:57 pm
 Operator : Juliet:jg
 Sample : WG1810591-6,32,,Juliet Degdftpp
 Misc : WG1810591,,ical20193
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Aug 01 23:18:38 2023
 Quant Method : I:\8270\Juliet\230801n\DftppJuliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Mon Jul 24 11:57:55 2023
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(3) Benzidine (T)
 8.378min (-0.215) 148.66
 response 1513334

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : JULIET
 Lab File ID : ABN0801N
 Sample No : WG1810591-3
 Channel :

Lab Number : L2343170
 Project Number : 2230119
 Calibration Date : 08/01/23 23:21
 Init. Calib. Date(s) : 07/20/23 07/21/23
 Init. Calib. Times : 23:20 12:01

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	90	0
n-Nitrosodimethylamine	0.61	0.648	-	-6.2	20	94	0
Pyridine	1.085	1.167	-	-7.6	20	91	0
2-Fluorophenol	1.008	1.169	-	-16	20	101	0
Aniline	1.656	1.735	-	-4.8	20	92	0
2-Chlorophenol	1.249	1.34	-	-7.3	20	98	0
Phenol-d6	1.291	1.384	-	-7.2	20	93	0
Phenol	1.442	1.364	-	5.4	20	83	0
Bis(2-chloroethyl)ether	0.96	0.941	-	2	20	90	0
1,3-Dichlorobenzene	1.43	1.546	-	-8.1	20	100	0
1,4-Dichlorobenzene	1.437	1.568	-	-9.1	20	103	0
1,2-Dichlorobenzene	1.388	1.513	-	-9	20	102	0
Benzyl alcohol	0.897	0.899	-	-0.2	20	89	0
Bis(2-chloroisopropyl)ethe	1.171	1.031	-	12	20	81	0
2-Methylphenol	1.018	1.046	-	-2.8	20	93	0
Hexachloroethane	0.491	0.528	-	-7.5	20	101	0
n-Nitrosodi-n-propylamine	0.755	0.731	-	3.2	20	88	0
3-Methylphenol/4-Methylphe	1.076	1.1	-	-2.2	20	92	0
Nitrobenzene-d5	1.16	1.153	-	0.6	20	90	0
Nitrobenzene	1.125	1.099	-	2.3	20	91	0
Isophorone	2.148	2.023	-	5.8	20	87	0
2-Nitrophenol	0.682	0.742	-	-8.8	20	97	0
2,4-Dimethylphenol	1.167	1.192	-	-2.1	20	92	0
Bis(2-chloroethoxy)methane	1.262	1.207	-	4.4	20	90	0
2,4-Dichlorophenol	1.157	1.257	-	-8.6	20	98	0
1,2,4-Trichlorobenzene	1.294	1.388	-	-7.3	20	100	0
IS1_Naphthalene-d8	1	1	-	0	20	87	0
Naphthalene	0.985	1.061	-	-7.7	20	96	0
Benzoic Acid	0.234	0.254	-	-8.5	20	90	0
4-Chloroaniline	0.1	0.105	-	-5	20	88	0
Hexachlorobutadiene	0.201	0.24	-	-19.4	20	104	0
p-Chloro-m-cresol	0.282	0.313	-	-11	20	93	0
2-Methylnaphthalene	0.665	0.748	-	-12.5	20	96	0
1-Methylnaphthalene	0.216	0.226	-	-4.6	20	92	0
Hexachlorocyclopentadiene	50	46.19	-	7.6	20	85	0
2,4,6-Trichlorophenol	0.243	0.283	-	-16.5	20	99	0
2,4,5-Trichlorophenol	0.265	0.296	-	-11.7	20	94	0
2-Fluorobiphenyl	0.841	0.912	-	-8.4	20	96	0
2-Chloronaphthalene	0.71	0.764	-	-7.6	20	96	0
2-Nitroaniline	0.236	0.259	-	-9.7	20	95	0
1,4-Dinitrobenzene	0.106	0.12	-	-13.2	20	93	0
1,3-Dinitrobenzene	0.122	0.131	-	-7.4	20	92	0
Dimethyl phthalate	0.871	0.934	-	-7.2	20	97	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : JULIET
 Lab File ID : ABN0801N
 Sample No : WG1810591-3
 Channel :

Lab Number : L2343170
 Project Number : 2230119
 Calibration Date : 08/01/23 23:21
 Init. Calib. Date(s) : 07/20/23 07/21/23
 Init. Calib. Times : 23:20 12:01

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.161	1.263	-	-8.8	20	97	0
2,6-Dinitrotoluene	0.181	0.2	-	-10.5	20	96	0
1,2-Dinitrobenzene	0.074	0.077	-	-4.1	20	95	0
IS1_Acenaphthene-d10	1	1	-	0	20	86	0
3-Nitroaniline	0.35	0.39	-	-11.4	20	93	0
Acenaphthene	1.101	1.12	-	-1.7	20	92	0
2,4-Dinitrophenol	50	51.115	-	-2.2	20	92	0
Dibenzofuran	1.707	1.887	-	-10.5	20	97	0
2,4-Dinitrotoluene	0.419	0.455	-	-8.6	20	93	0
4-Nitrophenol	0.213	0.206	-	3.3	20	78	0
2,3,5,6-Tetrachlorophenol	0.356	0.409	-	-14.9	20	93	0
2,3,4,6-Tetrachlorophenol	0.373	0.437	-	-17.2	20	102	0
Diethyl phthalate	1.428	1.553	-	-8.8	20	95	0
Fluorene	1.383	1.487	-	-7.5	20	93	0
4-Chlorophenyl phenyl ethe	0.67	0.738	-	-10.1	20	94	0
4-Nitroaniline	0.328	0.363	-	-10.7	20	94	0
4,6-Dinitro-o-cresol	0.249	0.303	-	-21.7*	20	99	0
NDPA/DPA	1.177	1.274	-	-8.2	20	96	0
Azobenzene	1.063	1.068	-	-0.5	20	87	0
2,4,6-Tribromophenol	0.23	0.282	-	-22.6*	20	105	0
4-Bromophenyl phenyl ether	0.438	0.505	-	-15.3	20	99	0
Hexachlorobenzene	0.508	0.579	-	-14	20	101	0
Pentachlorophenol	50	54.378	-	-8.8	20	96	0
IS1_Phenanthrene-d10	1	1	-	0	20	85	0
Phenanthrene	0.996	1.054	-	-5.8	20	95	0
Anthracene	0.998	1.07	-	-7.2	20	96	0
Carbazole	0.959	1.002	-	-4.5	20	94	0
Di-n-butylphthalate	1.167	1.257	-	-7.7	20	94	0
Fluoranthene	1.296	1.384	-	-6.8	20	94	0
Benzdine	0.855	0.911	-	-6.5	20	96	0
Pyrene	1.335	1.371	-	-2.7	20	93	0
4-Terphenyl-d14	0.974	1.033	-	-6.1	20	96	0
Butyl benzyl phthalate	0.58	0.617	-	-6.4	20	91	0
IS1_Chrysene-d12	1	1	-	0	20	85	0
Benzo(a)anthracene	1.349	1.441	-	-6.8	20	94	0
3,3'-Dichlorobenzidine	0.528	0.575	-	-8.9	20	92	0
Chrysene	1.125	1.21	-	-7.6	20	98	0
Bis(2-ethylhexyl)phthalate	0.75	0.83	-	-10.7	20	93	0
Di-n-octylphthalate	1.406	1.598	-	-13.7	20	91	0
Benzo(b)fluoranthene	1.402	1.546	-	-10.3	20	94	0
Benzo(k)fluoranthene	1.265	1.339	-	-5.8	20	96	0
Benzo(a)pyrene	1.209	1.4	-	-15.8	20	100	0
IS1_Perylene-d12	1	1	-	0	20	86	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.	Lab Number : L2343170
Project Name : 42 YORK STREET	Project Number : 2230119
Instrument ID : JULIET	Calibration Date : 08/01/23 23:21
Lab File ID : ABN0801N	Init. Calib. Date(s) : 07/20/23 07/21/23
Sample No : WG1810591-3	Init. Calib. Times : 23:20 12:01
Channel :	

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.059	1.201	-	-13.4	20	97	0
Dibenzo(a,h)anthracene	1.082	1.192	-	-10.2	20	94	0
Benzo(ghi)perylene	1.109	1.235	-	-11.4	20	97	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : JULIET
Lab File ID : AP90801N
Sample No : WG1810591-4
Channel :

Lab Number : L2343170
Project Number : 2230119
Calibration Date : 08/01/23 23:44
Init. Calib. Date(s) : 07/20/23 07/21/23
Init. Calib. Times : 23:20 12:01

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	0
Benzaldehyde	0.709	0.624	-	12	20	98	0
Acetophenone	1.507	1.466	-	2.7	20	97	0
m-Toluidine	1.296	1.168	-	9.9	20	97	0
2-Chloroaniline	1.518	1.482	-	2.4	20	101	0
IS2_Naphthalene-d8	1	1	-	0	20	97	0
a-Terpineol	0.186	0.179	-	3.8	20	91	0
3-Chloroaniline	0.1	0.099	-	1	20	92	0
2,6-Dichlorophenol	0.284	0.309	-	-8.8	20	101	0
1-chloro-2-nitrobenzene	0.129	0.132	-	-2.3	20	99	0
Caprolactam	0.109	0.095	-	12.8	20	86	0
1,2,4,5-Tetrachlorobenzene	0.366	0.404	-	-10.4	20	107	0
Biphenyl	0.815	0.833	-	-2.2	20	100	0
IS2_Acenaphthene-d10	1	1	-	0	20	96	0
Dichloran	0.209	0.241	-	-15.3	20	103	0
Pentachloronitrobenzene	0.19	0.212	-	-11.6	20	102	0
IS2_Phenanthrene-d10	1	1	-	0	20	99	0
Diphenamid	0.492	0.503	-	-2.2	20	99	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : SV109
 Lab File ID : ABN0801N
 Sample No : WG1810592-3
 Channel :

Lab Number : L2343170
 Project Number : 2230119
 Calibration Date : 08/01/23 23:57
 Init. Calib. Date(s) : 05/31/23 06/06/23
 Init. Calib. Times : 20:09 19:30

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	117	0
n-Nitrosodimethylamine	0.738	0.669	-	9.3	20	100	0
Pyridine	1.187	1.15	-	3.1	20	111	0
2-Fluorophenol	1.072	1.157	-	-7.9	20	116	0
Aniline	1.917	1.868	-	2.6	20	110	0
2-Chlorophenol	1.325	1.317	-	0.6	20	112	0
Phenol-d6	1.443	1.424	-	1.3	20	108	0
Phenol	1.553	1.495	-	3.7	20	109	0
Bis(2-chloroethyl)ether	1.245	1.166	-	6.3	20	103	0
1,3-Dichlorobenzene	1.45	1.475	-	-1.7	20	118	0
1,4-Dichlorobenzene	1.484	1.504	-	-1.3	20	118	0
1,2-Dichlorobenzene	1.43	1.441	-	-0.8	20	116	0
Benzyl alcohol	1.107	1.087	-	1.8	20	105	0
Bis(2-chloroisopropyl)ethe	1.645	1.566	-	4.8	20	106	0
2-Methylphenol	1.145	1.167	-	-1.9	20	114	0
Hexachloroethane	0.63	0.607	-	3.7	20	110	0
n-Nitrosodi-n-propylamine	1.014	0.941	-	7.2	20	103	0
3-Methylphenol/4-Methylphe	1.201	1.247	-	-3.8	20	115	0
Nitrobenzene-d5	1.452	1.367	-	5.9	20	103	0
Nitrobenzene	1.428	1.376	-	3.6	20	105	0
Isophorone	2.758	2.491	-	9.7	20	102	0
2-Nitrophenol	0.712	0.753	-	-5.8	20	118	0
2,4-Dimethylphenol	1.327	1.324	-	0.2	20	110	0
Bis(2-chloroethoxy)methane	1.68	1.548	-	7.9	20	104	0
2,4-Dichlorophenol	1.156	1.2	-	-3.8	20	114	0
1,2,4-Trichlorobenzene	1.309	1.292	-	1.3	20	113	0
IS1_Naphthalene-d8	1	1	-	0	20	112	0
Naphthalene	0.998	1.024	-	-2.6	20	113	0
Benzoic Acid	50	50.436	-	-0.9	20	116	0
4-Chloroaniline	0.129	0.129	-	0	20	107	0
Hexachlorobutadiene	0.207	0.207	-	0	20	110	0
p-Chloro-m-cresol	0.311	0.321	-	-3.2	20	110	0
2-Methylnaphthalene	0.663	0.677	-	-2.1	20	110	0
1-Methylnaphthalene	0.254	0.226	-	11	20	98	0
Hexachlorocyclopentadiene	50	40.661	-	18.7	20	95	0
2,4,6-Trichlorophenol	0.217	0.24	-	-10.6	20	118	0
2,4,5-Trichlorophenol	0.241	0.258	-	-7.1	20	113	0
2-Fluorobiphenyl	0.798	0.819	-	-2.6	20	114	0
2-Chloronaphthalene	0.686	0.696	-	-1.5	20	112	0
2-Nitroaniline	0.231	0.246	-	-6.5	20	114	0
1,4-Dinitrobenzene	0.104	0.12	-	-15.4	20	122	0
1,3-Dinitrobenzene	0.116	0.131	-	-12.9	20	119	0
Dimethyl phthalate	0.859	0.858	-	0.1	20	111	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : SV109
 Lab File ID : ABN0801N
 Sample No : WG1810592-3
 Channel :

Lab Number : L2343170
 Project Number : 2230119
 Calibration Date : 08/01/23 23:57
 Init. Calib. Date(s) : 05/31/23 06/06/23
 Init. Calib. Times : 20:09 19:30

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.097	1.186	-	-8.1	20	120	0
2,6-Dinitrotoluene	0.184	0.188	-	-2.2	20	114	0
1,2-Dinitrobenzene	0.079	0.084	-	-6.3	20	117	0
IS1_Acenaphthene-d10	1	1	-	0	20	116	0
3-Nitroaniline	0.378	0.387	-	-2.4	20	113	0
Acenaphthene	1.188	1.194	-	-0.5	20	115	0
2,4-Dinitrophenol	50	52.85	-	-5.7	20	125	0
Dibenzofuran	1.847	1.842	-	0.3	20	115	0
2,4-Dinitrotoluene	0.43	0.468	-	-8.8	20	118	0
4-Nitrophenol	0.28	0.292	-	-4.3	20	111	0
2,3,5,6-Tetrachlorophenol	0.354	0.382	-	-7.9	20	118	0
2,3,4,6-Tetrachlorophenol	0.375	0.389	-	-3.7	20	117	0
Diethyl phthalate	1.71	1.617	-	5.4	20	108	0
Fluorene	1.494	1.448	-	3.1	20	110	0
4-Chlorophenyl phenyl ethe	0.722	0.73	-	-1.1	20	114	0
4-Nitroaniline	0.37	0.379	-	-2.4	20	118	0
4,6-Dinitro-o-cresol	50	60.748	-	-21.5*	20	144	0
NDPA/DPA	1.284	1.258	-	2	20	111	0
Azobenzene	1.542	1.387	-	10.1	20	103	0
2,4,6-Tribromophenol	0.213	0.265	-	-24.4*	20	133	0
4-Bromophenyl phenyl ether	0.447	0.455	-	-1.8	20	115	0
Hexachlorobenzene	0.516	0.543	-	-5.2	20	121	0
Pentachlorophenol	50	55.822	-	-11.6	20	128	0
IS1_Phenanthrene-d10	1	1	-	0	20	119	0
Phenanthrene	1.062	1.021	-	3.9	20	112	0
Anthracene	1.061	1.054	-	0.7	20	115	0
Carbazole	1.027	1.008	-	1.9	20	115	0
Di-n-butylphthalate	1.391	1.334	-	4.1	20	109	0
Fluoranthene	1.261	1.232	-	2.3	20	113	0
Benzidine	0.784	0.857	-	-9.3	20	136	0
Pyrene	1.308	1.273	-	2.7	20	114	0
4-Terphenyl-d14	0.984	0.955	-	2.9	20	113	0
Butyl benzyl phthalate	0.635	0.621	-	2.2	20	111	0
IS1_Chrysene-d12	1	1	-	0	20	120	0
Benzo(a)anthracene	1.394	1.346	-	3.4	20	117	0
3,3'-Dichlorobenzidine	0.533	0.571	-	-7.1	20	126	0
Chrysene	1.289	1.189	-	7.8	20	112	0
Bis(2-ethylhexyl)phthalate	1.044	0.979	-	6.2	20	109	0
Di-n-octylphthalate	1.841	1.731	-	6	20	109	0
Benzo(b)fluoranthene	1.333	1.405	-	-5.4	20	126	0
Benzo(k)fluoranthene	1.216	1.291	-	-6.2	20	124	0
Benzo(a)pyrene	1.137	1.205	-	-6	20	125	0
IS1_Perylene-d12	1	1	-	0	20	124	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : SV109
Lab File ID : ABN0801N
Sample No : WG1810592-3
Channel :

Lab Number : L2343170
Project Number : 2230119
Calibration Date : 08/01/23 23:57
Init. Calib. Date(s) : 05/31/23 06/06/23
Init. Calib. Times : 20:09 19:30

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.053	1.098	-	-4.3	20	126	0
Dibenzo(a,h)anthracene	1.139	1.188	-	-4.3	20	122	0
Benzo(ghi)perylene	1.149	1.168	-	-1.7	20	121	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : JULIET
Lab File ID : ADP0801N
Sample No : WG1810591-5
Channel :

Lab Number : L2343170
Project Number : 2230119
Calibration Date : 08/02/23 00:08
Init. Calib. Date(s) : 07/20/23 07/21/23
Init. Calib. Times : 23:20 12:01

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	92	0
1,4-Dioxane	0.377	0.345	-	8.5	20	88	0
n-Decane	0.824	0.74	-	10.2	20	82	0
IS3_Acenaphthene-d10	1	1	-	0	20	86	0
Atrazine	0.43	0.438	-	-1.9	20	84	0
IS3_Phenanthrene-d10	1	1	-	0	20	86	0
n-Octadecane	0.267	0.236	-	11.6	20	74	0
Parathion	50	44.724	-	10.6	20	80	0
3,3'-Dimethylbenzidine	0.868	0.905	-	-4.3	20	83	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : SV109
Lab File ID : AP90801N
Sample No : WG1810592-4
Channel :

Lab Number : L2343170
Project Number : 2230119
Calibration Date : 08/02/23 00:20
Init. Calib. Date(s) : 05/31/23 06/06/23
Init. Calib. Times : 20:09 19:30

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	155	0
Benzaldehyde	0.823	0.735	-	10.7	20	131	0
Acetophenone	1.793	1.857	-	-3.6	20	154	0
m-Toluidine	1.52	1.423	-	6.4	20	138	0
2-Chloroaniline	1.632	1.642	-	-0.6	20	153	0
IS2_Naphthalene-d8	1	1	-	0	20	149	0
a-Terpineol	0.261	0.272	-	-4.2	20	152	0
3-Chloroaniline	0.131	0.127	-	3.1	20	139	0
2,6-Dichlorophenol	0.269	0.295	-	-9.7	20	159	0
1-chloro-2-nitrobenzene	0.142	0.146	-	-2.8	20	148	0
Caprolactam	0.149	0.153	-	-2.7	20	152	0
1,2,4,5-Tetrachlorobenzene	0.345	0.356	-	-3.2	20	153	0
Biphenyl	0.819	0.847	-	-3.4	20	153	0
IS2_Acenaphthene-d10	1	1	-	0	20	152	0
Dichloran	0.186	0.228	-	-22.6*	20	177	0
Pentachloronitrobenzene	0.206	0.215	-	-4.4	20	153	0
IS2_Phenanthrene-d10	1	1	-	0	20	154	0
Diphenamid	0.512	0.516	-	-0.8	20	151	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : SV109
Lab File ID : ADP0801N
Sample No : WG1810592-5
Channel :

Lab Number : L2343170
Project Number : 2230119
Calibration Date : 08/02/23 00:43
Init. Calib. Date(s) : 05/31/23 06/06/23
Init. Calib. Times : 20:09 19:30

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	169	0
1,4-Dioxane	0.414	0.413	-	0.2	20	160	0
n-Decane	1.18	1.204	-	-2	20	166	0
IS3_Acenaphthene-d10	1	1	-	0	20	164	0
Atrazine	0.421	0.442	-	-5	20	167	0
IS3_Phenanthrene-d10	1	1	-	0	20	161	0
n-Octadecane	0.419	0.395	-	5.7	20	149	0
Parathion	0.118	0.145	-	-22.9*	20	195	0
3,3'-Dimethylbenzidine	0.75	0.866	-	-15.5	20	174	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\230801n\
 Data File : ABN0801n.D
 Acq On : 1 Aug 2023 11:57 pm
 Operator : SV109:ljj
 Sample : WG1810592-3,32,,ABN CCV Lot # 10133
 Misc : WG1810592,,ical20078
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Aug 02 12:22:54 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 11:43:11 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	IS1_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	117	0.00
2 t	n-Nitrosodimethylamine	0.738	0.669	9.3	100	0.00
3 t	Pyridine	1.187	1.150	3.1	111	0.00
4 S	2-Fluorophenol	1.072	1.157	-7.9	116	0.00
5 T	Aniline	1.917	1.868	2.6	110	0.00
6 t	2-Chlorophenol	1.325	1.317	0.6	112	0.00
7 S	Phenol-d6	1.443	1.424	1.3	108	0.00
8 T	Phenol	1.553	1.495	3.7	109	0.00
9 T	Bis(2-chloroethyl)ether	1.245	1.166	6.3	103	0.00
10 T	1,3-Dichlorobenzene	1.450	1.475	-1.7	118	0.00
11 T	1,4-Dichlorobenzene	1.484	1.504	-1.3	118	0.00
12 T	1,2-Dichlorobenzene	1.430	1.441	-0.8	116	0.00
13 t	Benzyl alcohol	1.107	1.087	1.8	105	0.00
14 T	Bis(2-chloroisopropyl)ether	1.645	1.566	4.8	106	0.00
15 T	2-Methylphenol	1.145	1.167	-1.9	114	0.00
16 T	Hexachloroethane	0.630	0.607	3.7	110	0.00
17 T	n-Nitrosodi-n-propylamine	1.014	0.941	7.2	103	0.00
18 T	3-Methylphenol/4-Methylphen	1.201	1.247	-3.8	115	0.00
19 S	Nitrobenzene-d5	1.452	1.367	5.9	103	0.00
20 T	Nitrobenzene	1.428	1.376	3.6	105	0.00
21 T	Isophorone	2.758	2.491	9.7	102	0.00
22 T	2-Nitrophenol	0.712	0.753	-5.8	118	0.00
23 T	2,4-Dimethylphenol	1.327	1.324	0.2	110	0.00
24 T	Bis(2-chloroethoxy)methane	1.680	1.548	7.9	104	0.00
25 T	2,4-Dichlorophenol	1.156	1.200	-3.8	114	0.00
26 T	1,2,4-Trichlorobenzene	1.309	1.292	1.3	113	0.00
35 I	IS1_Naphthalene-d8	1.000	1.000	0.0	112	0.00
36 T	Naphthalene	0.998	1.024	-2.6	113	0.00
37 T	Benzoic Acid	* 50.000	50.436	-0.9	116	0.00
38 T	4-Chloroaniline	0.129	0.129	0.0	107	0.00
39 T	Hexachlorobutadiene	0.207	0.207	0.0	110	0.00
40 T	p-Chloro-m-cresol	0.311	0.321	-3.2	110	0.00
41 T	2-Methylnaphthalene	0.663	0.677	-2.1	110	0.00
42 T	1-Methylnaphthalene	0.254	0.226	11.0	98	0.00
43 T	Hexachlorocyclopentadiene	* 50.000	40.661	18.7	95	0.00
44 T	2,4,6-Trichlorophenol	0.217	0.240	-10.6	118	0.00
45 T	2,4,5-Trichlorophenol	0.241	0.258	-7.1	113	0.00
46 S	2-Fluorobiphenyl	0.798	0.819	-2.6	114	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\230801n\
 Data File : ABN0801n.D
 Acq On : 1 Aug 2023 11:57 pm
 Operator : SV109:ljpg
 Sample : WG1810592-3,32,,ABN CCV Lot # 10133
 Misc : WG1810592,,ical20078
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Aug 02 12:22:54 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 11:43:11 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47 T	2-Chloronaphthalene	0.686	0.696	-1.5	112	0.00
48 T	2-Nitroaniline	0.231	0.246	-6.5	114	0.00
49 T	1,4-Dinitrobenzene	0.104	0.120	-15.4	122	0.00
50 T	1,3-Dinitrobenzene	0.116	0.131	-12.9	119	0.00
51 T	Dimethyl phthalate	0.859	0.858	0.1	111	0.00
52 T	Acenaphthylene	1.097	1.186	-8.1	120	0.00
53 T	2,6-Dinitrotoluene	0.184	0.188	-2.2	114	0.00
54 T	1,2-Dinitrobenzene	0.079	0.084	-6.3	117	0.00
63 I	IS1_Acenaphthene-d10	1.000	1.000	0.0	116	0.00
64 T	3-Nitroaniline	0.378	0.387	-2.4	113	0.00
65 T	Acenaphthene	1.188	1.194	-0.5	115	0.00
66 T	2,4-Dinitrophenol	* 50.000	52.850	-5.7	125	0.00
67 T	Dibenzofuran	1.847	1.842	0.3	115	0.00
68 T	2,4-Dinitrotoluene	0.430	0.468	-8.8	118	0.00
69 T	4-Nitrophenol	0.280	0.292	-4.3	111	0.00
70 T	2,3,5,6-Tetrachlorophenol	0.354	0.382	-7.9	118	0.00
71 T	2,3,4,6-Tetrachlorophenol	0.375	0.389	-3.7	117	0.00
72 T	Diethyl phthalate	1.710	1.617	5.4	108	0.00
73 T	Fluorene	1.494	1.448	3.1	110	0.00
74 T	4-Chlorophenyl phenyl ether	0.722	0.730	-1.1	114	0.00
75 T	4-Nitroaniline	0.370	0.379	-2.4	118	0.00
76 T	4,6-Dinitro-o-cresol	* 50.000	60.748	-21.5#	144	0.00
77 T	NDPA/DPA	1.284	1.258	2.0	111	0.00
78 T	Azobenzene	1.542	1.387	10.1	103	0.00
79 S	2,4,6-Tribromophenol	0.213	0.265	-24.4#	133	0.00
80 T	4-Bromophenyl phenyl ether	0.447	0.455	-1.8	115	0.00
81 T	Hexachlorobenzene	0.516	0.543	-5.2	121	0.00
82 T	Pentachlorophenol	* 50.000	55.822	-11.6	128	0.00
88 I	IS1_Phenanthrene-d10	1.000	1.000	0.0	119	0.00
89 T	Phenanthrene	1.062	1.021	3.9	112	0.00
90 T	Anthracene	1.061	1.054	0.7	115	0.00
91 T	Carbazole	1.027	1.008	1.9	115	0.00
92 T	Di-n-butylphthalate	1.391	1.334	4.1	109	0.00
93 T	Fluoranthene	1.261	1.232	2.3	113	0.00
94 T	Benzidine	0.784	0.857	-9.3	136	0.00
95 T	Pyrene	1.308	1.273	2.7	114	0.00
96 S	4-Terphenyl-d14	0.984	0.955	2.9	113	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\230801n\
 Data File : ABN0801n.D
 Acq On : 1 Aug 2023 11:57 pm
 Operator : SV109:ljpg
 Sample : WG1810592-3,32,,ABN CCV Lot # 10133
 Misc : WG1810592,,ical20078
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Aug 02 12:22:54 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 11:43:11 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97 T	Butyl benzyl phthalate	0.635	0.621	2.2	111	0.00
104 I	IS1_Chrysene-d12	1.000	1.000	0.0	120	0.00
105 T	Benzo(a)anthracene	1.394	1.346	3.4	117	0.00
106 T	3,3'-Dichlorobenzidine	0.533	0.571	-7.1	126	0.00
107 T	Chrysene	1.289	1.189	7.8	112	0.00
108 T	Bis(2-ethylhexyl)phthalate	1.044	0.979	6.2	109	0.00
109 T	Di-n-octylphthalate	1.841	1.731	6.0	109	0.00
110 T	Benzo(b)fluoranthene	1.333	1.405	-5.4	126	0.00
111 T	Benzo(k)fluoranthene	1.216	1.291	-6.2	124	0.00
112 T	Benzo(a)pyrene	1.137	1.205	-6.0	125	0.00
113 I	IS1_Perylene-d12	1.000	1.000	0.0	124	0.00
114 T	Indeno(1,2,3-cd)pyrene	1.053	1.098	-4.3	126	0.00
115 T	Dibenzo(a,h)anthracene	1.139	1.188	-4.3	122	0.00
116 T	Benzo(ghi)perylene	1.149	1.168	-1.7	121	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : ABN0801n.D
 Acq On : 1 Aug 2023 11:57 pm
 Operator : SV109:ljj
 Sample : WG1810592-3,32,,ABN CCV Lot # 10133
 Misc : WG1810592,,ical20078
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Aug 02 12:22:54 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 11:43:11 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.101	152	268648	40.000	ug/ml	0.00
35) IS1_Naphthalene-d8	5.348	136	1035506	40.000	ug/ml	0.00
63) IS1_Acenaphthene-d10	7.048	164	585086	40.000	ug/ml	0.00
88) IS1_Phenanthrene-d10	8.466	188	1270325	40.000	ug/ml	0.00
104) IS1_Chrysene-d12	11.113	240	1162834	40.000	ug/ml	0.00
113) IS1_Perylene-d12	13.012	264	1262089	40.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.790	112	388425	53.955	ug/ml	0.00
Spiked Amount	50.000	Range 30 - 130	Recovery =	107.91%		
7) Phenol-d6	3.819	99	478341	49.340	ug/ml	0.00
Spiked Amount	50.000	Range 30 - 130	Recovery =	98.68%		
19) Nitrobenzene-d5	4.660	82	459144	47.096	ug/ml	0.00
Spiked Amount	25.000	Range 40 - 140	Recovery =	188.38%#		
46) 2-Fluorobiphenyl	6.431	172	1059475	51.255	ug/ml	0.00
Spiked Amount	25.000	Range 40 - 140	Recovery =	205.02%#		
79) 2,4,6-Tribromophenol	7.813	330	193808	62.092	ug/ml	0.00
Spiked Amount	50.000	Range 30 - 130	Recovery =	124.18%		
96) 4-Terphenyl-d14	10.048	244	1516332	48.502	ug/ml	0.00
Spiked Amount	25.000	Range 40 - 140	Recovery =	194.01%#		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	1.390	74	224542	45.322	ug/ml#	90
3) Pyridine	1.413	79	386119	48.452	ug/ml	82
5) Aniline	3.784	93	627409	48.724	ug/ml#	60
6) 2-Chlorophenol	3.895	128	442222	49.679	ug/ml	98
8) Phenol	3.831	94	502146	48.151	ug/ml#	62
9) Bis(2-chloroethyl)ether	3.878	93	391643	46.848	ug/ml#	85
10) 1,3-Dichlorobenzene	4.043	146	495419	50.889	ug/ml	99
11) 1,4-Dichlorobenzene	4.119	146	504973	50.664	ug/ml	99
12) 1,2-Dichlorobenzene	4.266	146	483802	50.370	ug/ml	99
13) Benzyl alcohol	4.278	79	365018	49.085	ug/ml	97
14) Bis(2-chloroisopropyl)...	4.425	45	525950	47.605	ug/ml#	75
15) 2-Methylphenol	4.425	108	391998	50.995	ug/ml	100
16) Hexachloroethane	4.590	117	203688	48.164	ug/ml	92
17) n-Nitrosodi-n-propylamine	4.548	70	316009	46.421	ug/ml	99
18) 3-Methylphenol/4-Methy...	4.590	108	418671	51.919	ug/ml	99
20) Nitrobenzene	4.678	77	461970	48.154	ug/ml	99
21) Isophorone	4.925	82	836531	45.165	ug/ml	99
22) 2-Nitrophenol	4.995	139	252960	52.911	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : ABN0801n.D
 Acq On : 1 Aug 2023 11:57 pm
 Operator : SV109:ljj
 Sample : WG1810592-3,32,,ABN CCV Lot # 10133
 Misc : WG1810592,,ical20078
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Aug 02 12:22:54 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 11:43:11 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	5.095	107	444504	49.857	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.178	93	519786	46.062	ug/ml#	96
25) 2,4-Dichlorophenol	5.248	162	402929	51.905	ug/ml	98
26) 1,2,4-Trichlorobenzene	5.313	180	433916	49.363	ug/ml	99
36) Naphthalene	5.366	128	1325047	51.263	ug/ml	100
37) Benzoic Acid	5.254	105	350621	50.436	ug/ml	97
38) 4-Chloroaniline	5.454	65	167521	50.160	ug/ml	100
39) Hexachlorobutadiene	5.525	225	267819	49.874	ug/ml	99
40) p-Chloro-m-cresol	5.978	107	415090	51.489	ug/ml	98
41) 2-Methylnaphthalene	6.048	142	876439	51.031	ug/ml	98
42) 1-Methylnaphthalene	6.142	115	292659	44.595	ug/ml	94
43) Hexachlorocyclopentadiene	6.219	237	197085	40.661	ug/ml	98
44) 2,4,6-Trichlorophenol	6.348	196	311263	55.374	ug/ml	100
45) 2,4,5-Trichlorophenol	6.384	196	333600	53.560	ug/ml	99
47) 2-Chloronaphthalene	6.513	162	901079	50.760	ug/ml	99
48) 2-Nitroaniline	6.642	138	318405	53.336	ug/ml	96
49) 1,4-Dinitrobenzene	6.789	168	155967	57.723	ug/ml	90
50) 1,3-Dinitrobenzene	6.866	168	169767	56.390	ug/ml	93
51) Dimethyl phthalate	6.848	163	1111207	49.963	ug/ml	99
52) Acenaphthylene	6.907	152	1535099	54.042	ug/ml	100
53) 2,6-Dinitrotoluene	6.895	165	243926	51.305	ug/ml#	80
54) 1,2-Dinitrobenzene	6.936	168	109080	53.509	ug/ml#	18
64) 3-Nitroaniline	7.042	138	283360	51.305	ug/ml	99
65) Acenaphthene	7.078	154	873099	50.226	ug/ml	100
66) 2,4-Dinitrophenol	7.160	184	140969	52.850	ug/ml	93
67) Dibenzofuran	7.248	168	1347389	49.865	ug/ml#	76
68) 2,4-Dinitrotoluene	7.283	165	342401	54.420	ug/ml#	82
69) 4-Nitrophenol	7.266	65	213235	52.143	ug/ml#	1
70) 2,3,5,6-Tetrachlorophenol	7.354	232	279021	53.819	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	7.395	232	284347	51.856	ug/ml	99
72) Diethyl phthalate	7.536	149	1182660	47.294	ug/ml	100
73) Fluorene	7.578	166	1058692	48.434	ug/ml	98
74) 4-Chlorophenyl phenyl ...	7.601	204	533712	50.511	ug/ml	96
75) 4-Nitroaniline	7.630	138	277299	51.273	ug/ml	84
76) 4,6-Dinitro-o-cresol	7.678	198	204062	60.748	ug/ml#	87
77) NDPA/DPA	7.725	169	920214	49.002	ug/ml	99
78) Azobenzene	7.754	77	1014303	44.957	ug/ml	97
80) 4-Bromophenyl phenyl e...	8.066	248	332882	50.859	ug/ml	96
81) Hexachlorobenzene	8.113	284	396961	52.559	ug/ml	95
82) Pentachlorophenol	8.319	266	201595	55.822	ug/ml	100
89) Phenanthrene	8.489	178	1620522	48.062	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : ABN0801n.D
 Acq On : 1 Aug 2023 11:57 pm
 Operator : SV109:ljj
 Sample : WG1810592-3,32,,ABN CCV Lot # 10133
 Misc : WG1810592,,ical20078
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Aug 02 12:22:54 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 11:43:11 2023
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Anthracene	8.536	178	1673974	49.687	ug/ml	100
91) Carbazole	8.719	167	1600812	49.102	ug/ml	100
92) Di-n-butylphthalate	9.119	149	2118728	47.969	ug/ml	100
93) Fluoranthene	9.636	202	1956804	48.876	ug/ml#	96
94) Benzidine	9.801	184	1360951	54.689	ug/ml#	97
95) Pyrene	9.842	202	2021011	48.668	ug/ml	99
97) Butyl benzyl phthalate	10.571	149	985954	48.901	ug/ml	97
105) Benzo(a)anthracene	11.101	228	1956551	48.281	ug/ml	100
106) 3,3'-Dichlorobenzidine	11.119	252	829450	53.564	ug/ml	99
107) Chrysene	11.142	228	1727606	46.117	ug/ml	100
108) Bis(2-ethylhexyl)phtha...	11.289	149	1423305	46.907	ug/ml	99
109) Di-n-octylphthalate	12.160	149	2515844	47.017	ug/ml#	94
110) Benzo(b)fluoranthene	12.495	252	2042828	52.729	ug/ml#	97
111) Benzo(k)fluoranthene	12.530	252	1876230	53.071	ug/ml#	97
112) Benzo(a)pyrene	12.930	252	1752137	53.017	ug/ml#	96
114) Indeno(1,2,3-cd)pyrene	14.524	276	1731624	52.117	ug/ml	95
115) Dibenzo(a,h)anthracene	14.577	278	1874351	52.160	ug/ml#	95
116) Benzo(ghi)perylene	14.883	276	1842817	50.833	ug/ml	95

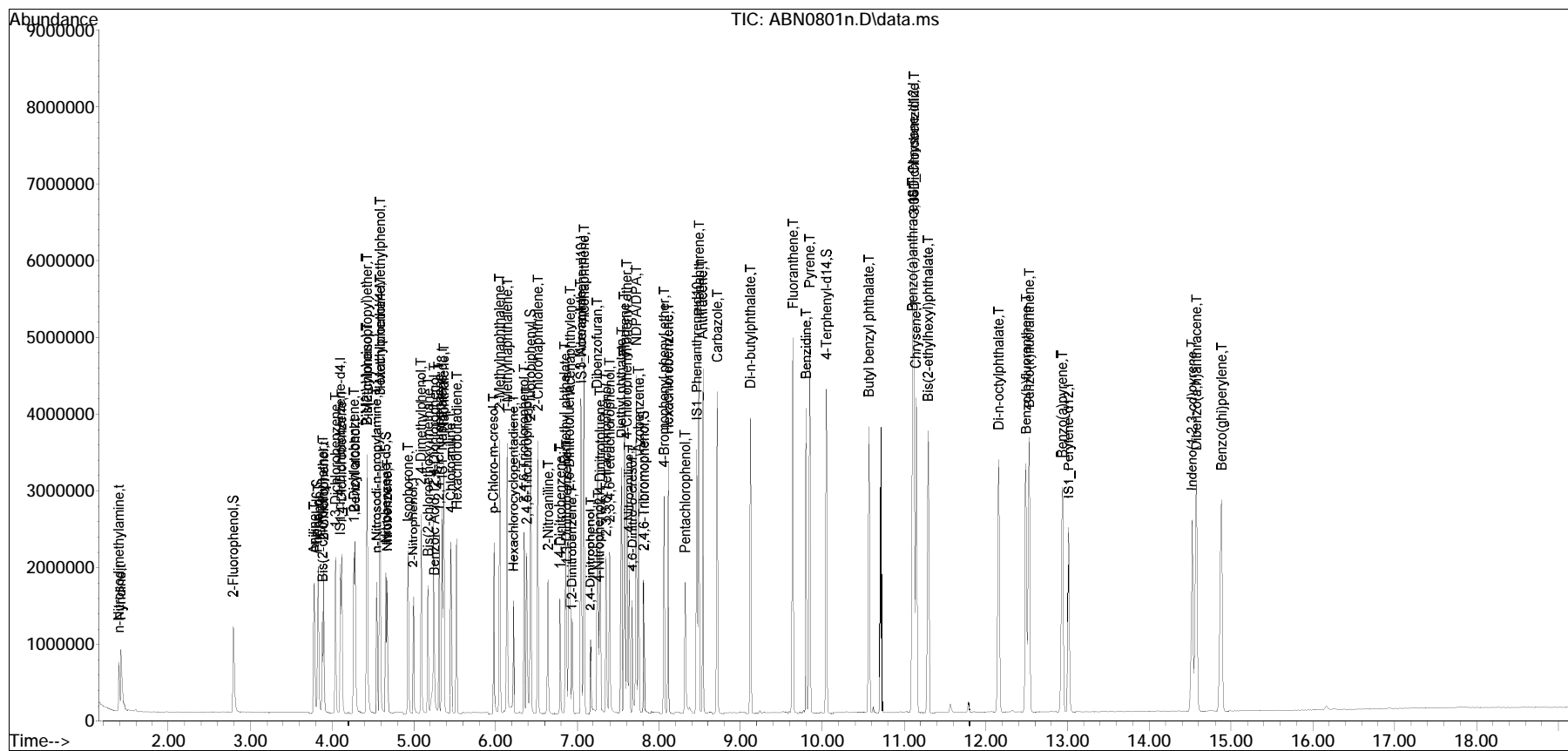
(#) = qualifier out of range (m) = manual integration (+) = signals summed

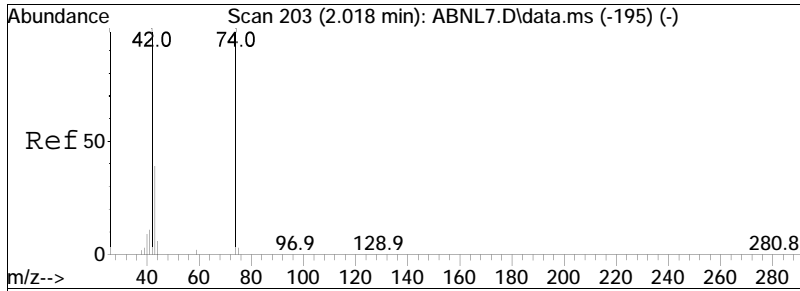
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : ABN0801n.D
 Acq On : 1 Aug 2023 11:57 pm
 Operator : SV109:ljj
 Sample : WG1810592-3,32,,ABN CCV Lot # 10133
 Misc : WG1810592,,ical20078
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Aug 02 12:22:54 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 11:43:11 2023
 Response via : Initial Calibration

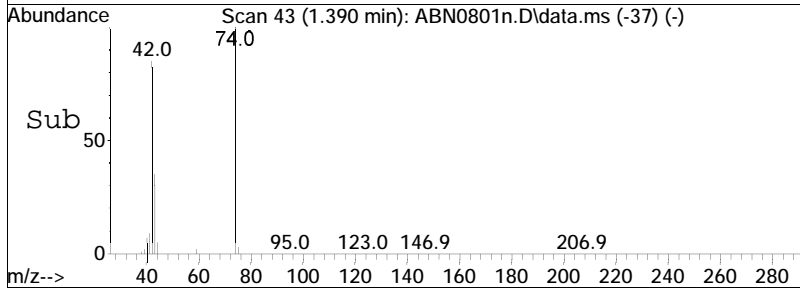
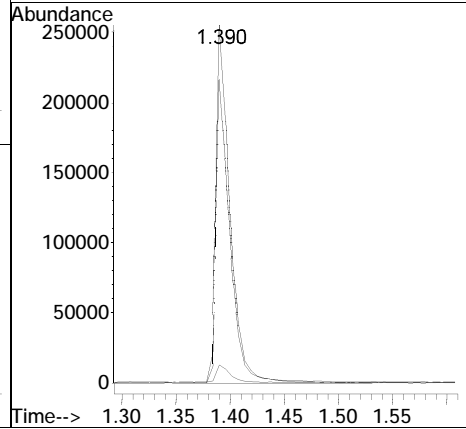
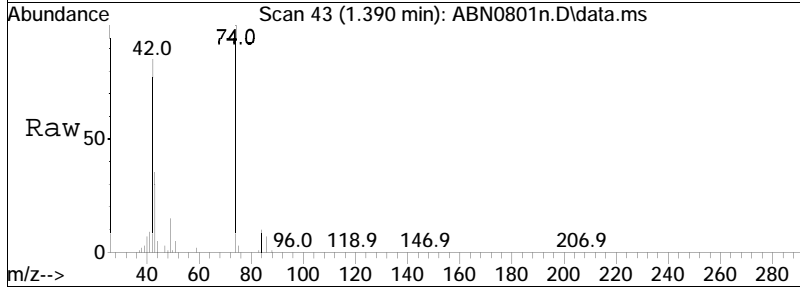
Sub List : ABNical - ABN ical sublist

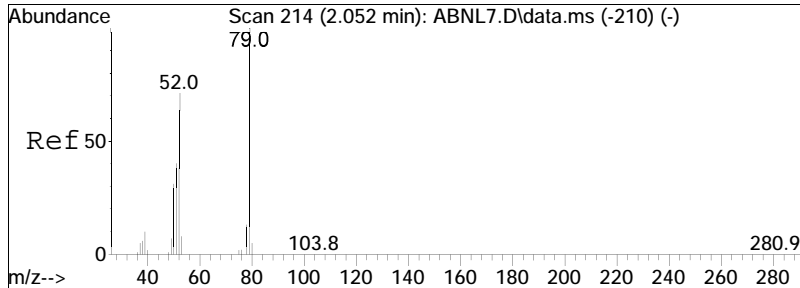




#2
 n-Nitrosodimethylamine
 Concen: 45.32 ug/ml
 RT: 1.390 min Scan# 43
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

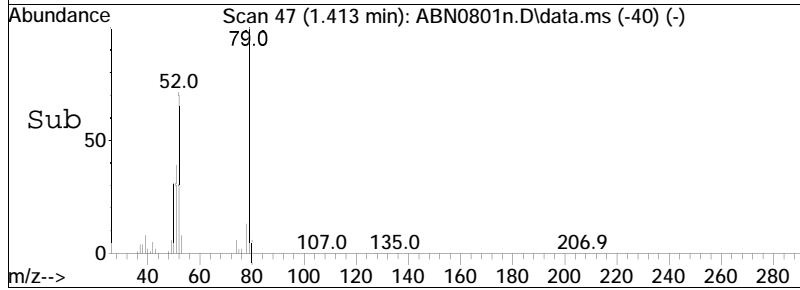
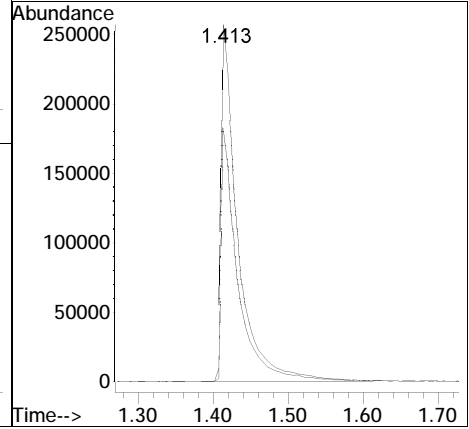
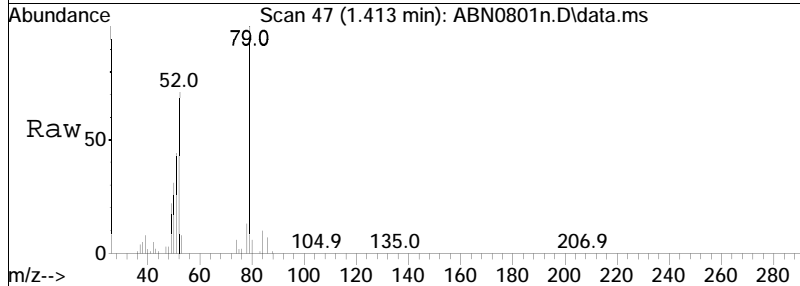
Tgt Ion	74	42	44	Ratio	100	84.8	5.1	Lower	75.7	5.7	Upper	113.5	8.5#
Resp:	224542												

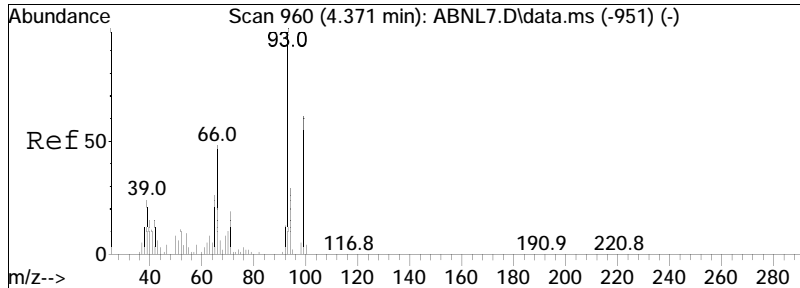




#3
 Pyridine
 Concen: 48.45 ug/ml
 RT: 1.413 min Scan# 47
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

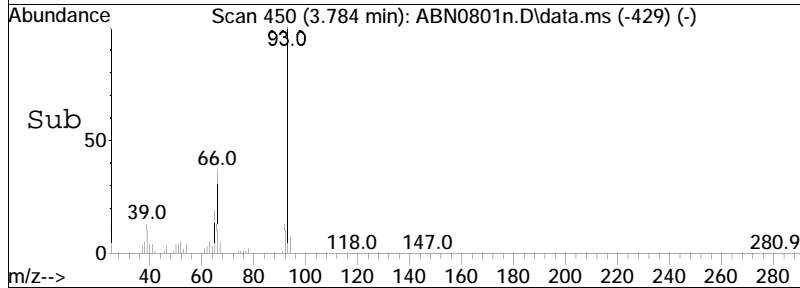
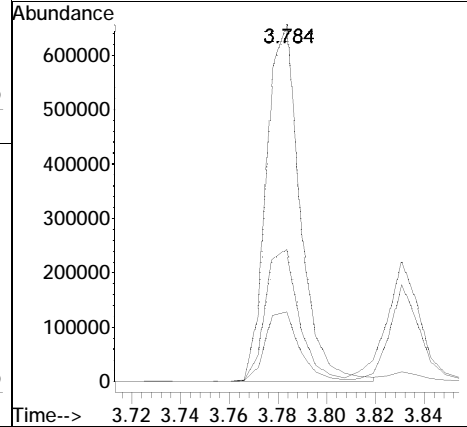
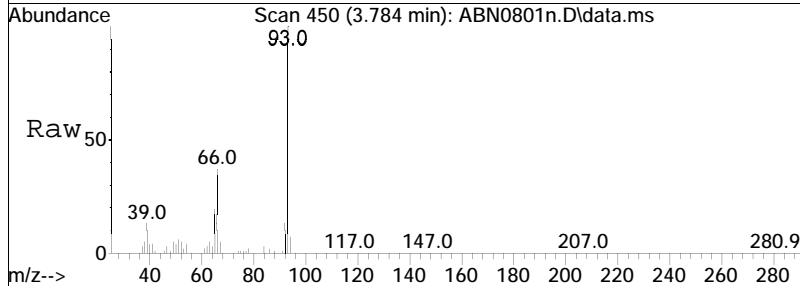
Tgt Ion	Resp	Lower	Upper
79	100		
52	72.6	71.8	107.8

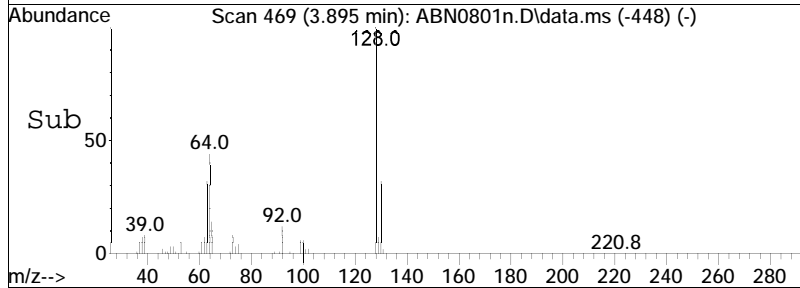
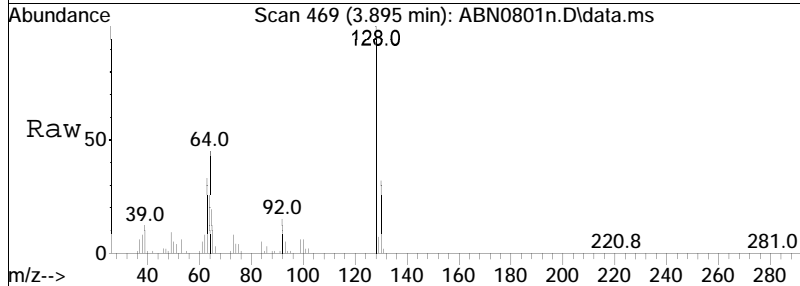
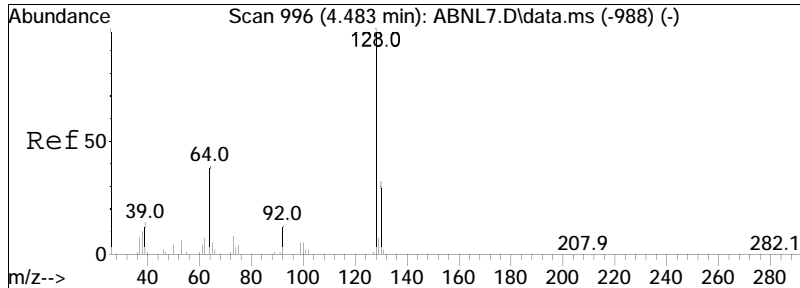




#5
 Aniline
 Concen: 48.72 ug/ml
 RT: 3.784 min Scan# 450
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

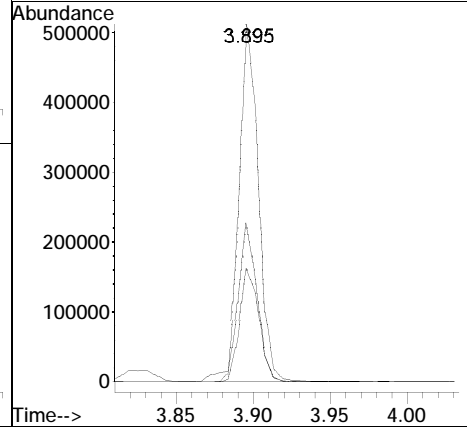
Tgt Ion	Ratio	Lower	Upper
93	100		
66	37.5	57.0	85.4#
65	20.0	36.2	54.2#

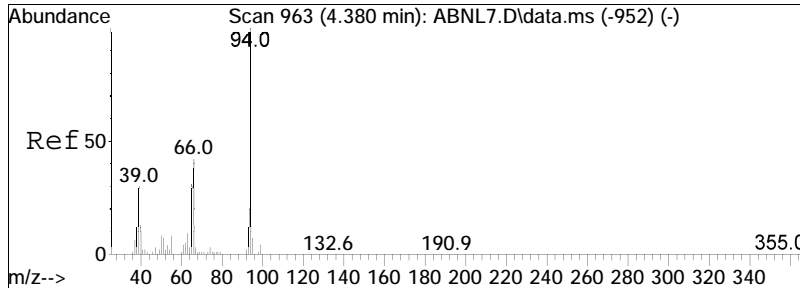




#6
 2-Chlorophenol
 Concen: 49.68 ug/ml
 RT: 3.895 min Scan# 469
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

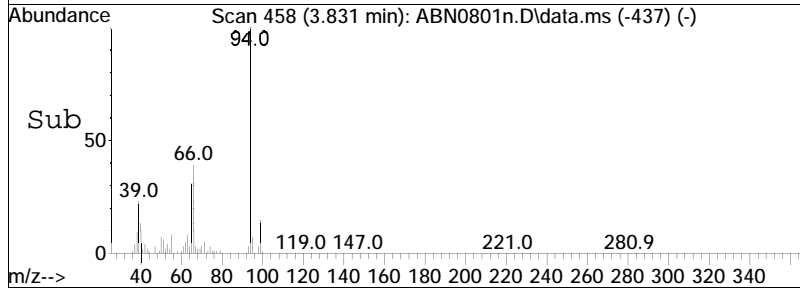
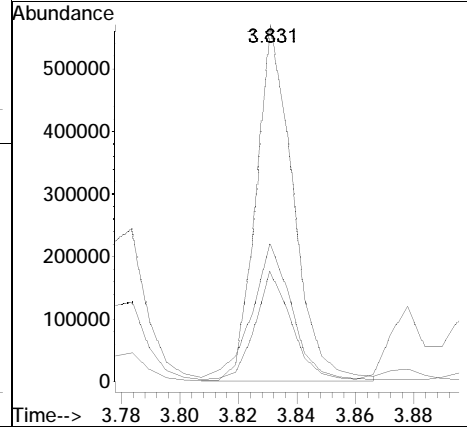
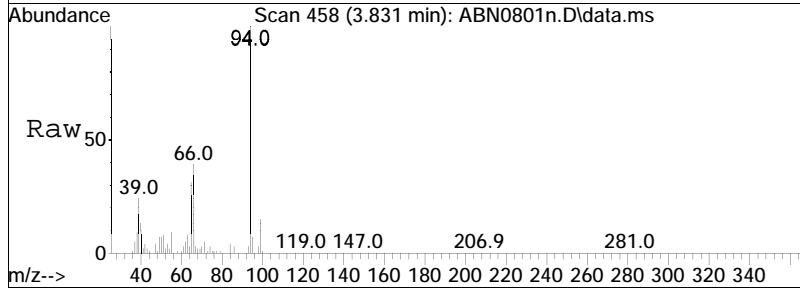
Tgt Ion	Ratio	Lower	Upper
128	100		
64	45.3	38.1	57.1
130	32.4	25.7	38.5

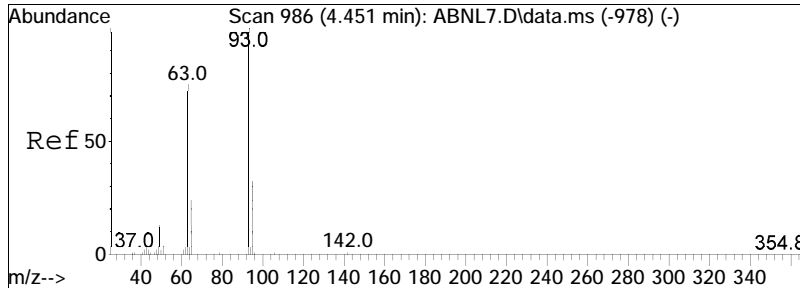




#8
 Phenol
 Concen: 48.15 ug/ml
 RT: 3.831 min Scan# 458
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

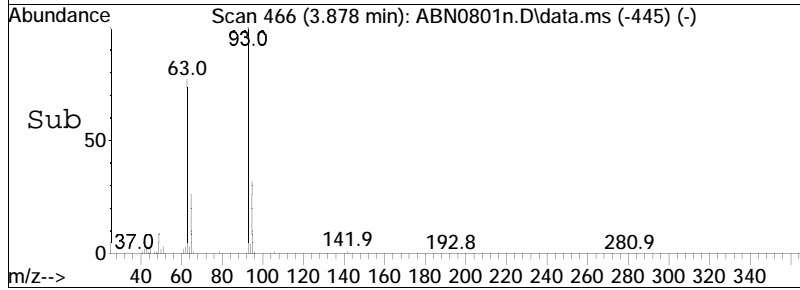
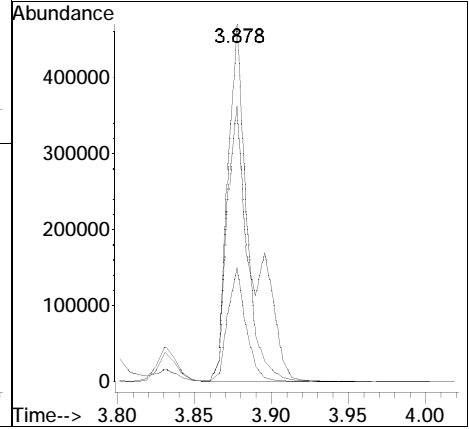
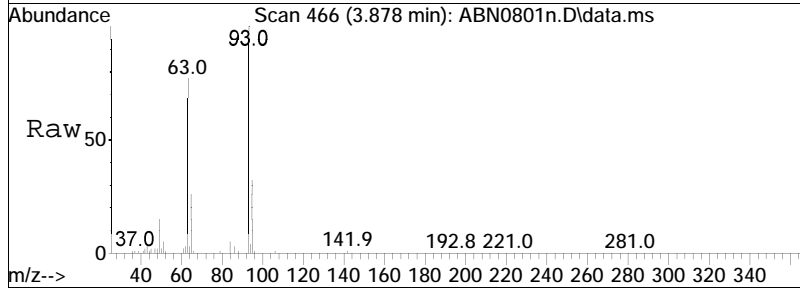
Tgt Ion:	94	Resp:	502146
Ion Ratio	Lower	Upper	
94	100		
65	29.5	40.7	61.1#
66	43.2	64.1	96.1#

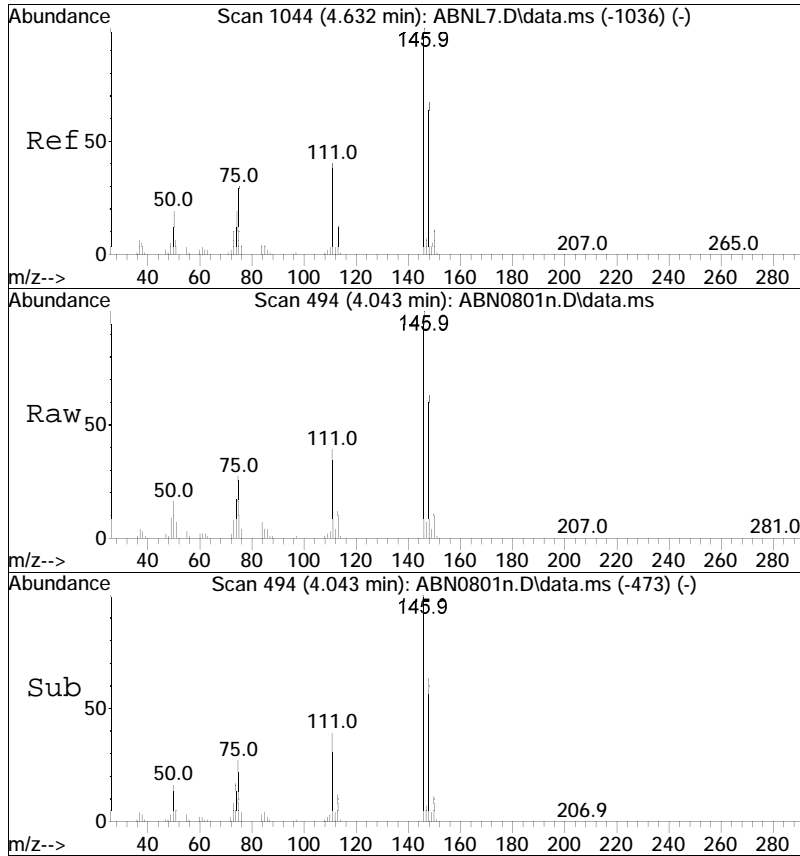




#9
 Bis(2-chloroethyl)ether
 Concen: 46.85 ug/ml
 RT: 3.878 min Scan# 466
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

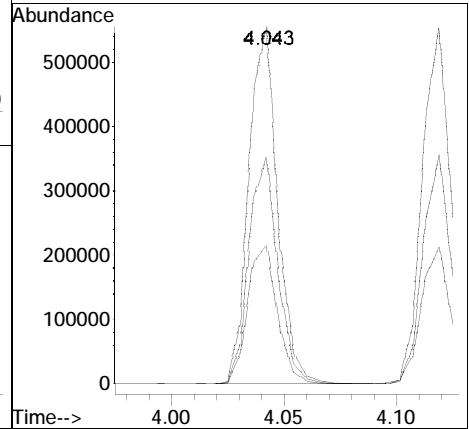
Tgt Ion	Resp	Lower	Upper
93	100		
63	110.8	73.7	110.5#
95	31.6	26.9	40.3

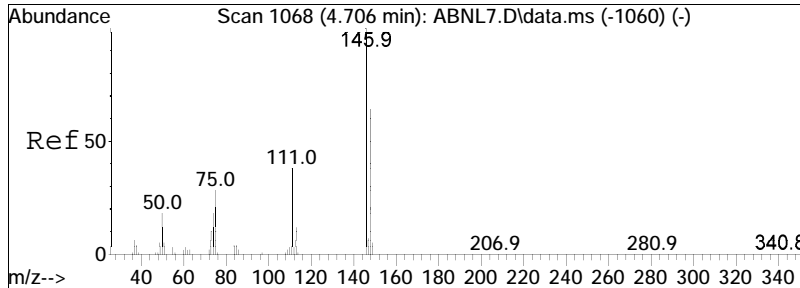




#10
 1,3-Dichlorobenzene
 Concen: 50.89 ug/ml
 RT: 4.043 min Scan# 494
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

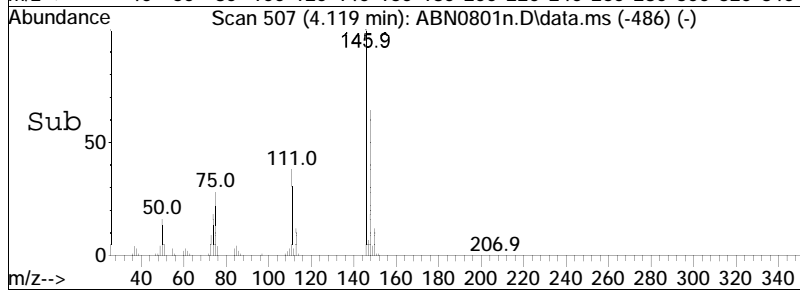
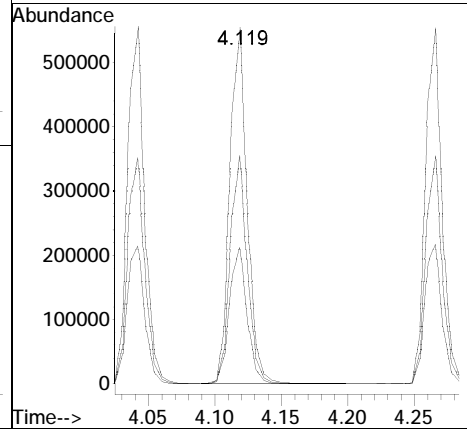
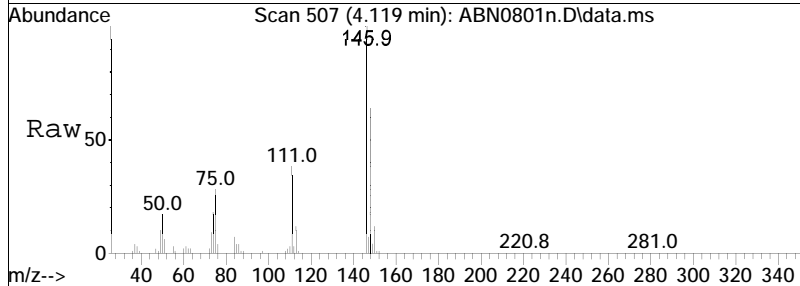
Tgt Ion	Resp	Lower	Upper
146	495419		
146	100		
111	40.2	33.0	49.4
148	64.0	51.0	76.6

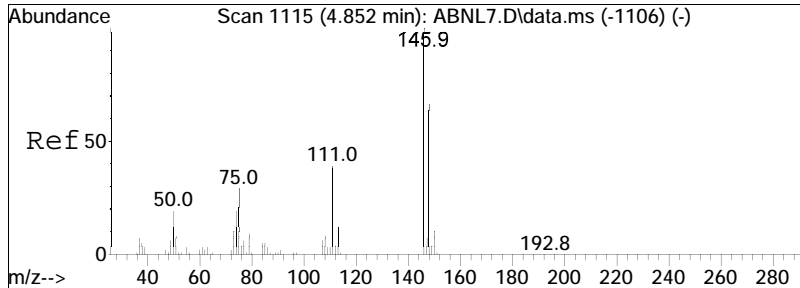




#11
 1,4-Dichlorobenzene
 Concen: 50.66 ug/ml
 RT: 4.119 min Scan# 507
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

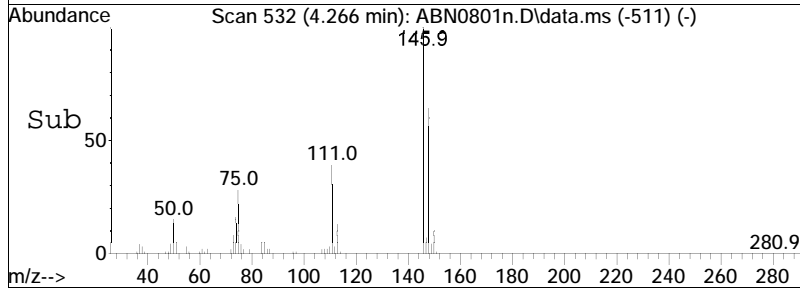
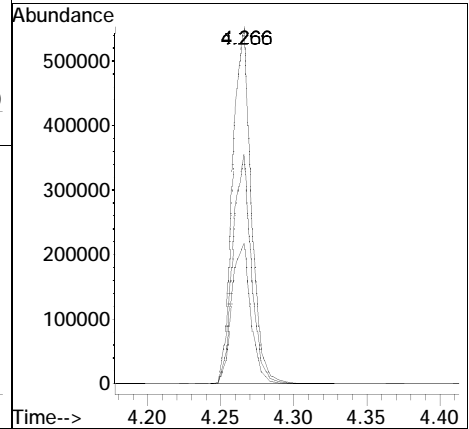
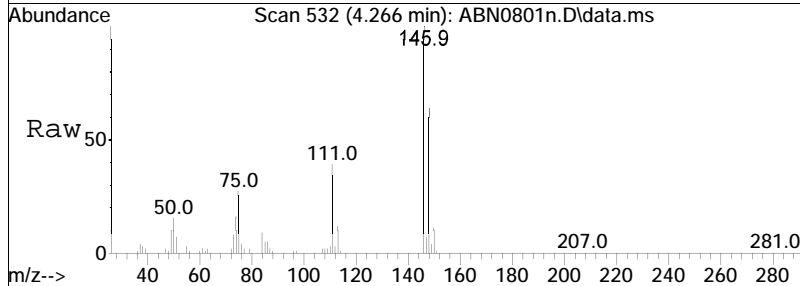
Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.4	77.0
111	39.4	31.8	47.8

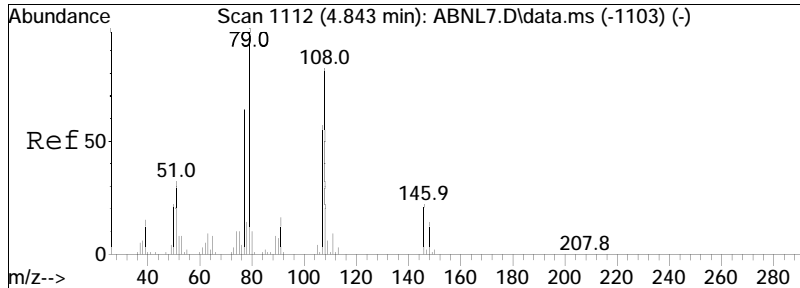




#12
 1,2-Dichlorobenzene
 Concen: 50.37 ug/ml
 RT: 4.266 min Scan# 532
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

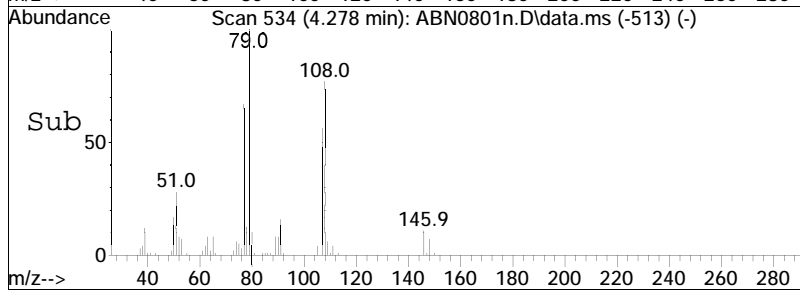
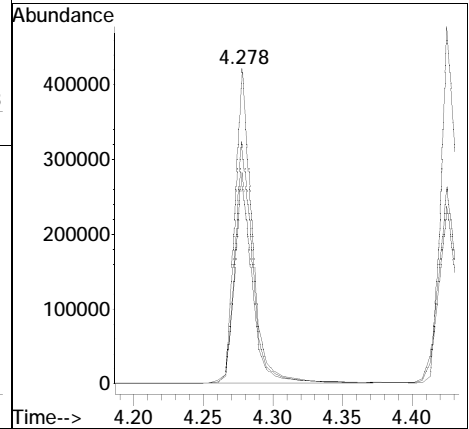
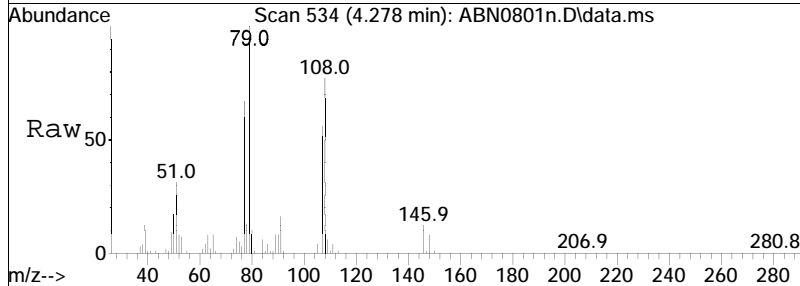
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.6	32.8	49.2
148	63.8	51.4	77.2

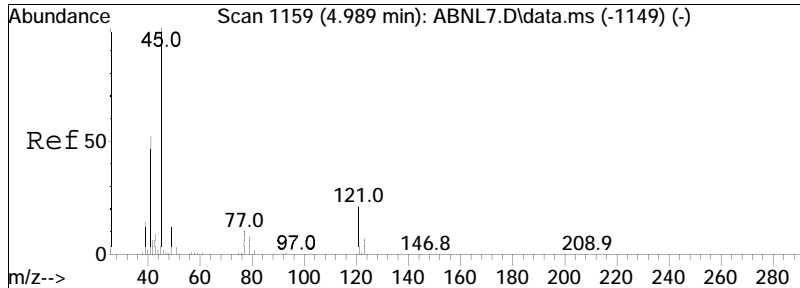




#13
 Benzyl alcohol
 Concen: 49.08 ug/ml
 RT: 4.278 min Scan# 534
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

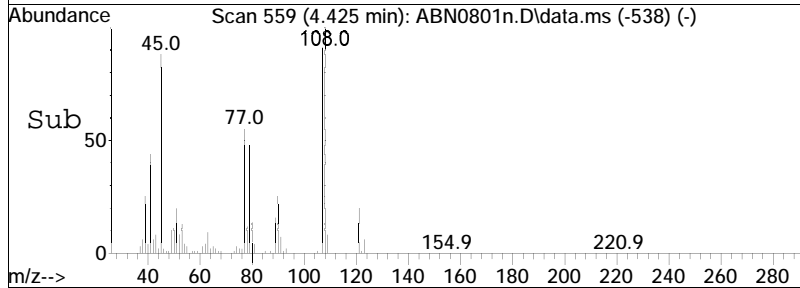
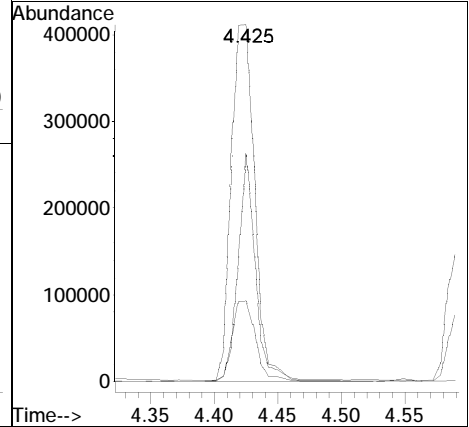
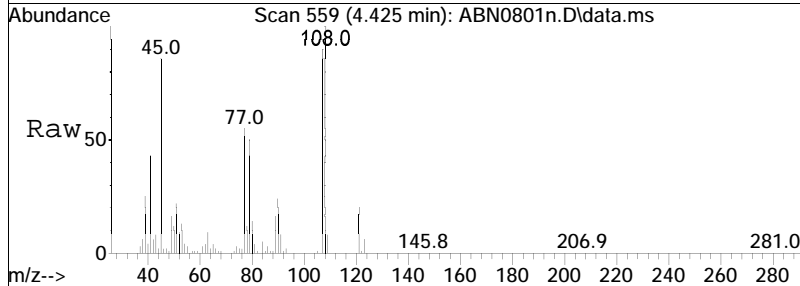
Tgt Ion	Resp	Lower	Upper
79	100		
77	66.8	52.4	78.6
108	78.9	66.7	100.1

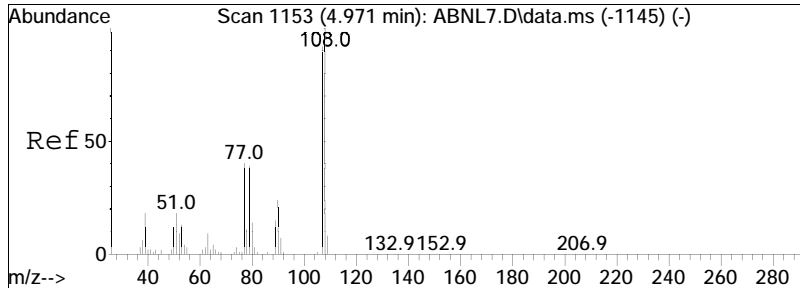




#14
 Bis(2-chloroisopropyl) ether
 Concen: 47.61 ug/ml
 RT: 4.425 min Scan# 559
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

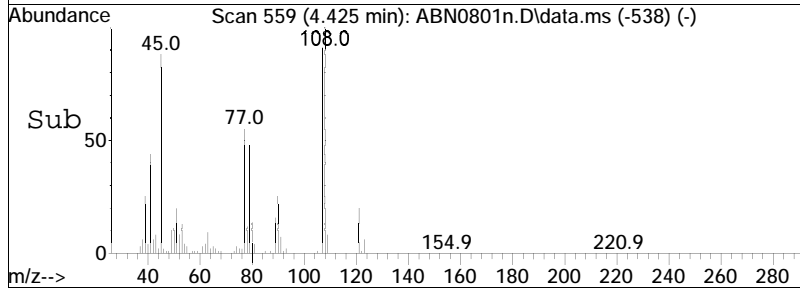
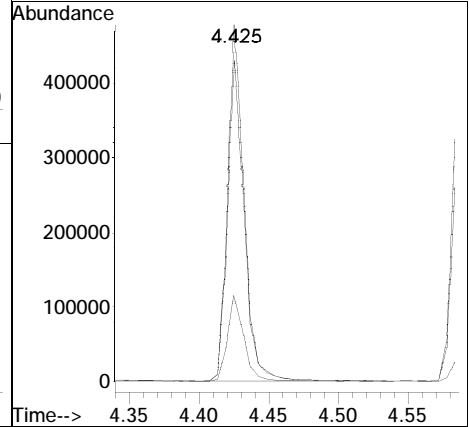
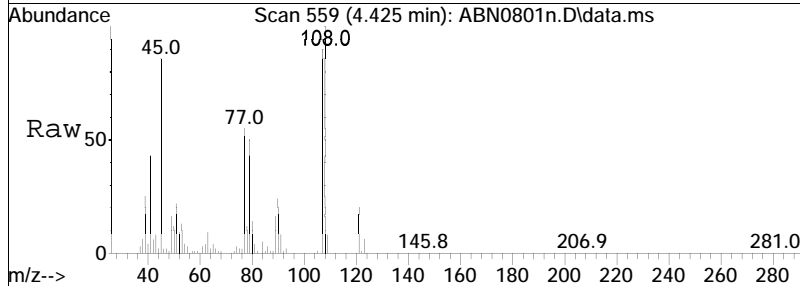
Tgt Ion:	45	Resp:	525950
Ion Ratio	100	Lower	Upper
45	100		
121	22.7	12.6	19.0#
77	47.0	24.6	37.0#

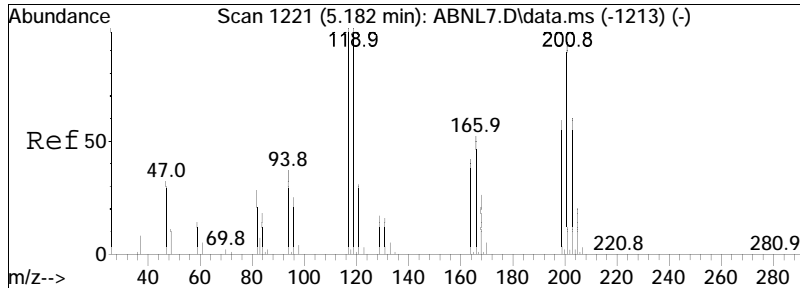




#15
 2-Methylphenol
 Concen: 51.00 ug/ml
 RT: 4.425 min Scan# 559
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

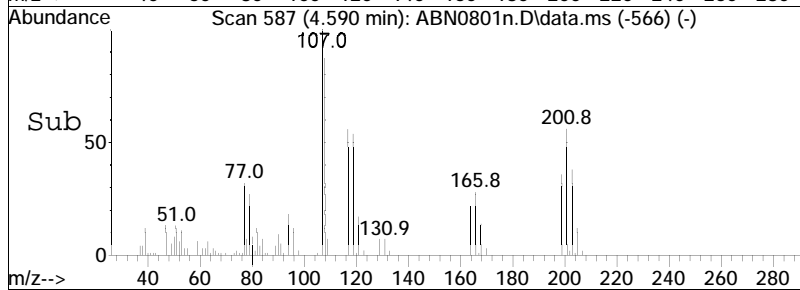
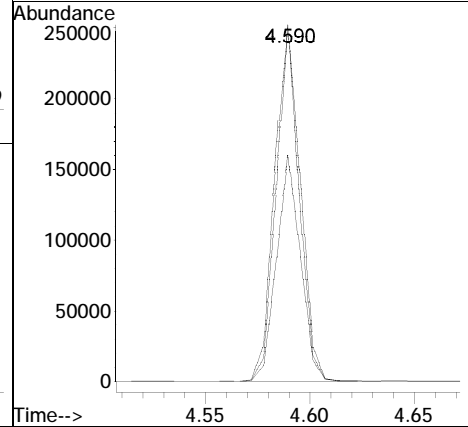
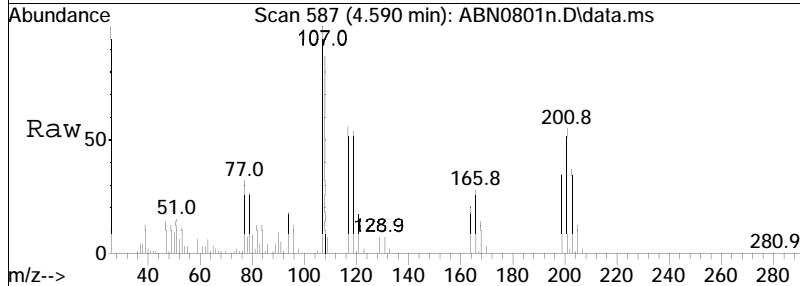
Tgt Ion	Ratio	Lower	Upper
108	100		
107	90.8	72.6	108.8
90	24.2	19.2	28.8

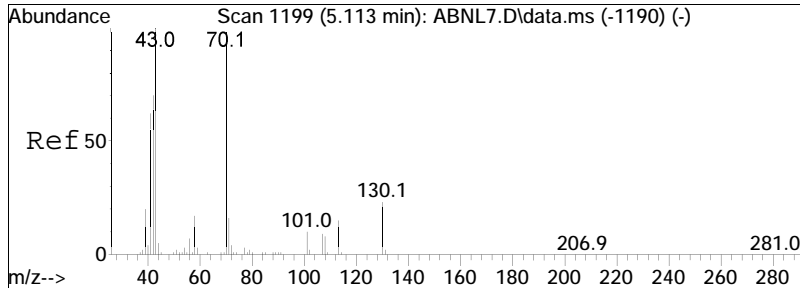




#16
 Hexachloroethane
 Concen: 48.16 ug/ml
 RT: 4.590 min Scan# 587
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

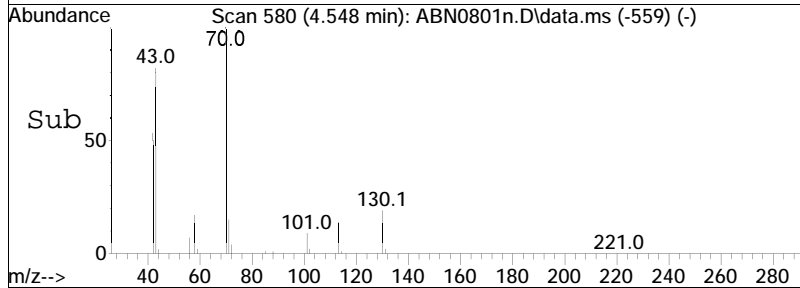
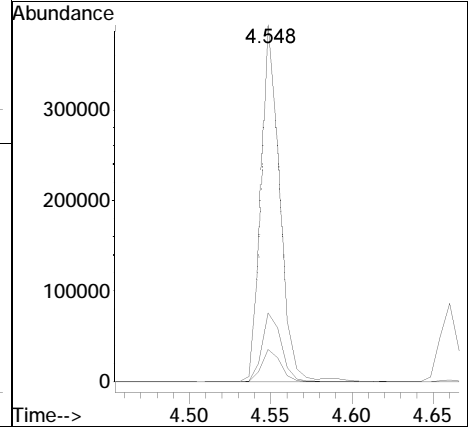
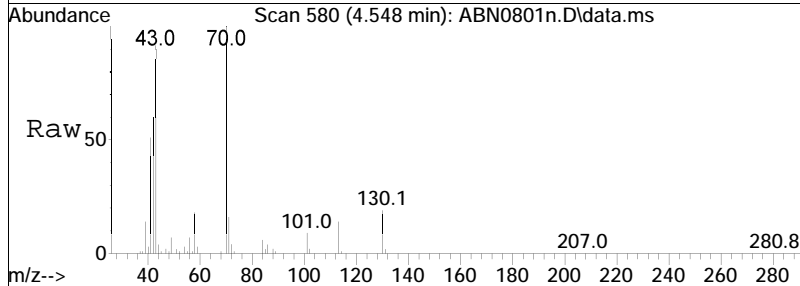
Tgt Ion	Resp	Lower	Upper
117	203688		
117	100		
201	98.7	72.7	109.1
199	62.6	46.2	69.2

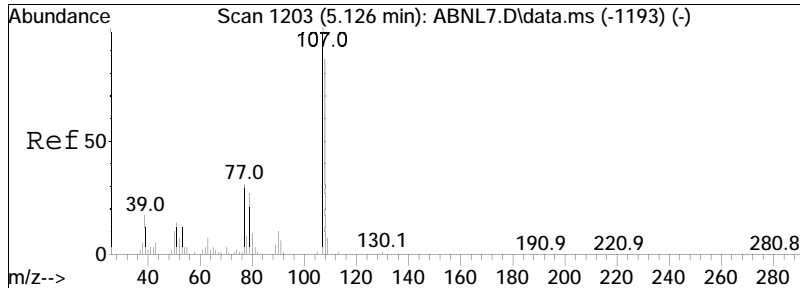




#17
 n-Nitrosodi-n-propylamine
 Concen: 46.42 ug/ml
 RT: 4.548 min Scan# 580
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

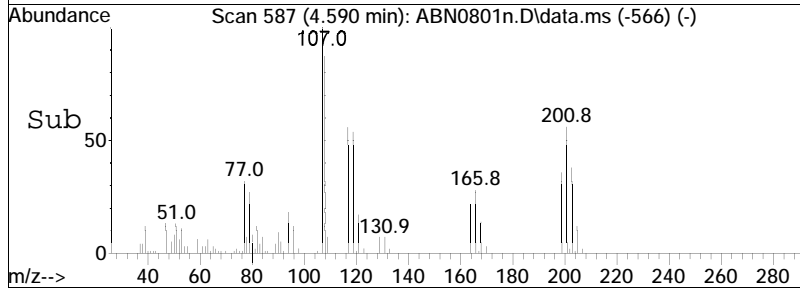
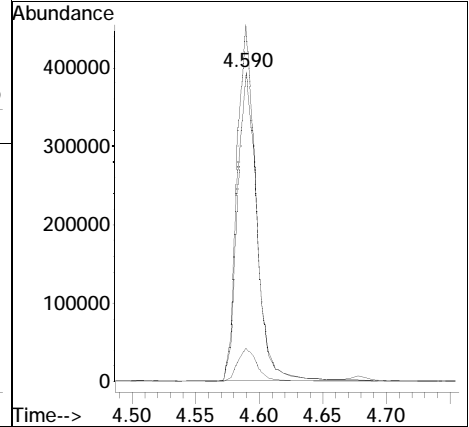
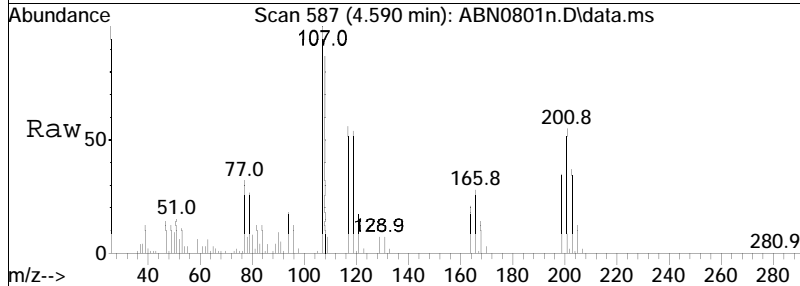
Tgt Ion	Resp	Lower	Upper
70	316009		
70	100		
130	19.7	16.6	24.8
101	9.2	7.4	11.0

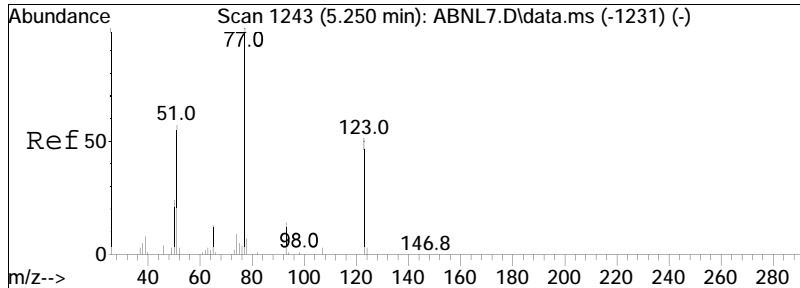




#18
 3-Methylphenol/4-Methylphenol
 Concen: 51.92 ug/ml
 RT: 4.590 min Scan# 587
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

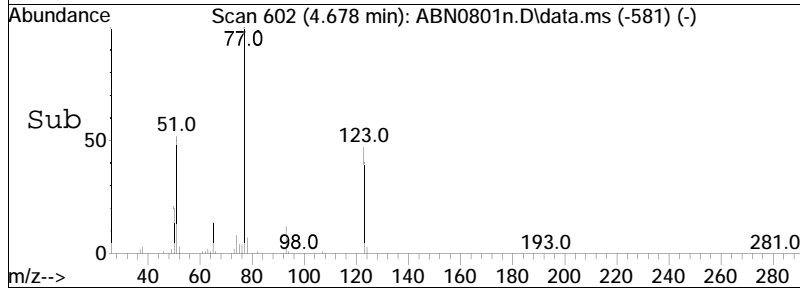
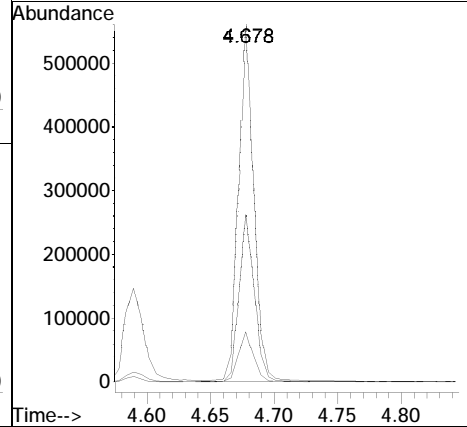
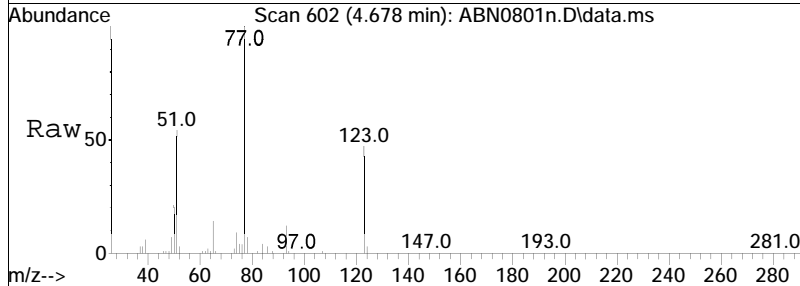
Tgt Ion	Resp	Lower	Upper
108	418671		
107	112.3	91.0	136.6
90	10.9	8.7	13.1

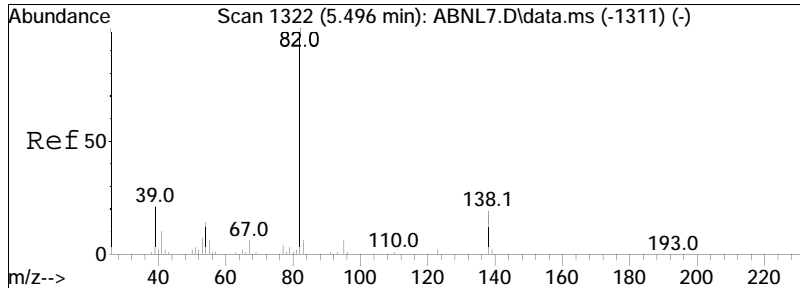




#20
 Nitrobenzene
 Concen: 48.15 ug/ml
 RT: 4.678 min Scan# 602
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

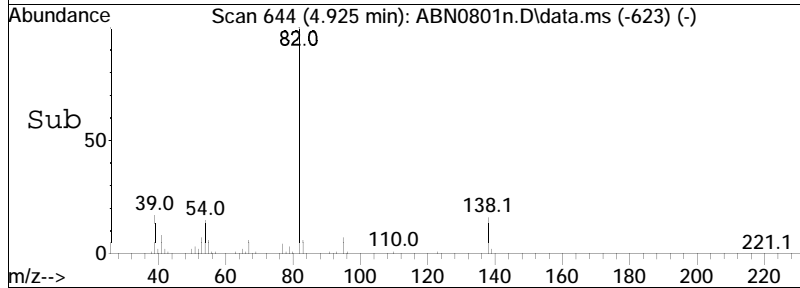
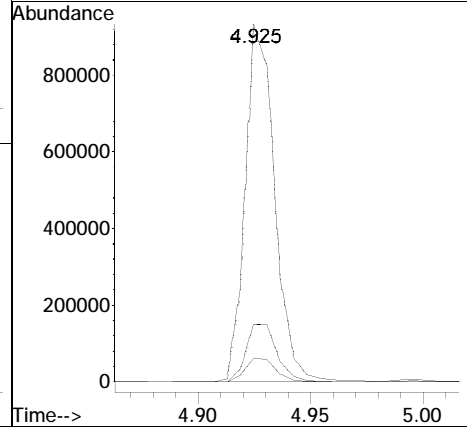
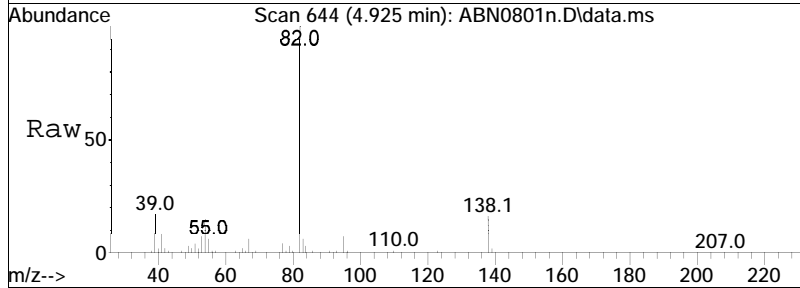
Tgt Ion	Resp	Lower	Upper
77	100		
123	47.5	38.5	57.7
65	14.1	11.4	17.0

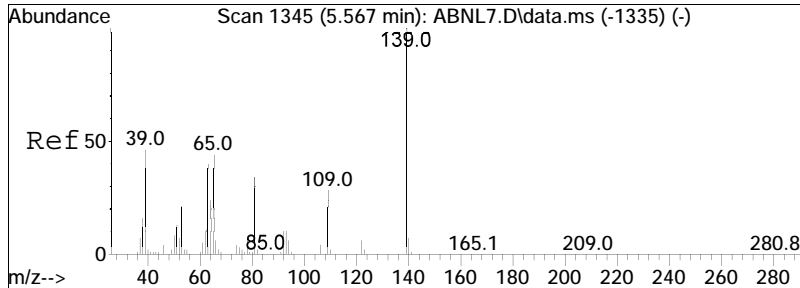




#21
 Isophorone
 Concen: 45.16 ug/ml
 RT: 4.925 min Scan# 644
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

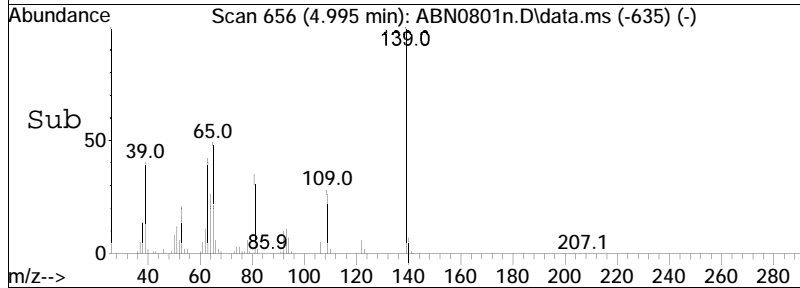
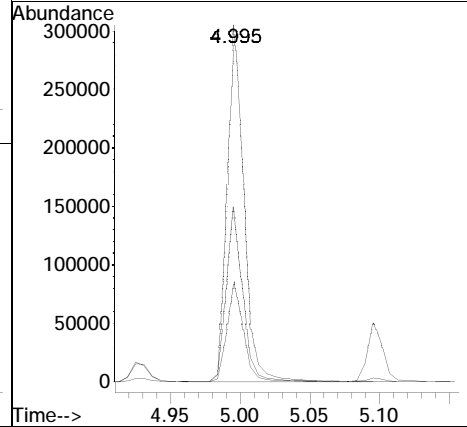
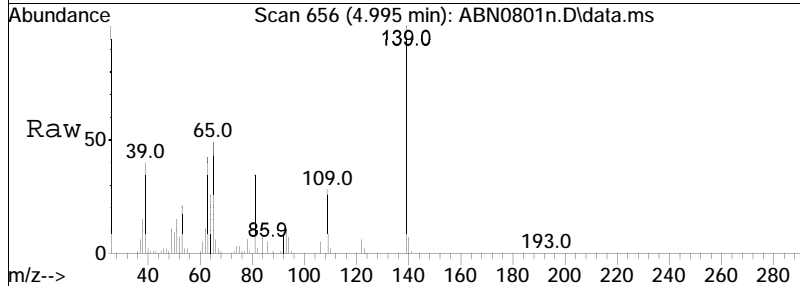
Tgt Ion	Resp	Lower	Upper
82	100		
138	17.1	13.6	20.4
95	6.9	5.1	7.7

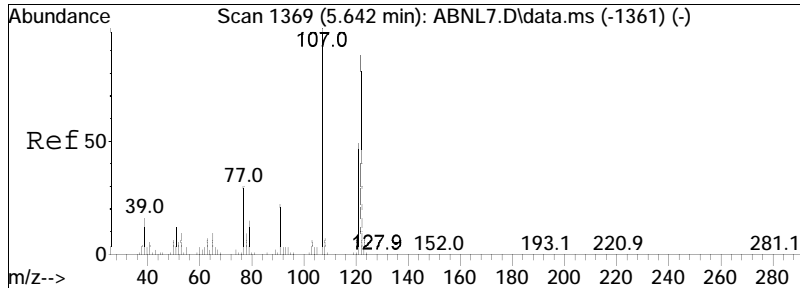




#22
 2-Nitrophenol
 Concen: 52.91 ug/ml
 RT: 4.995 min Scan# 656
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

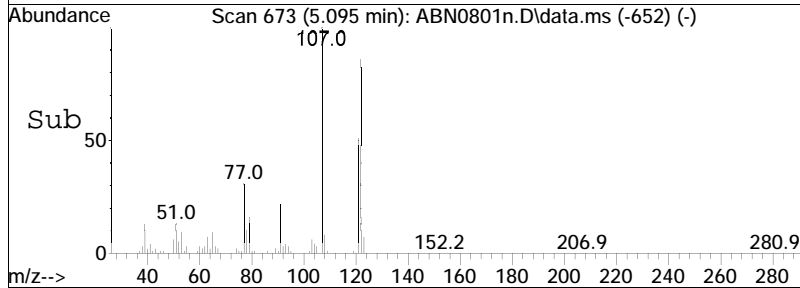
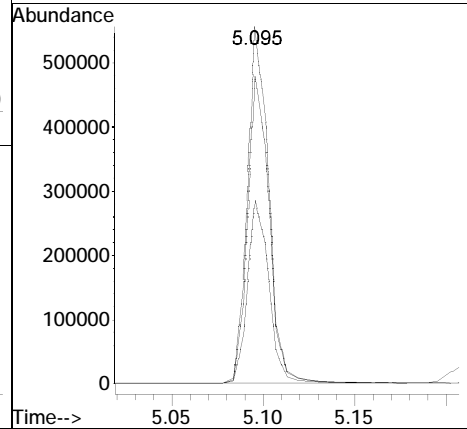
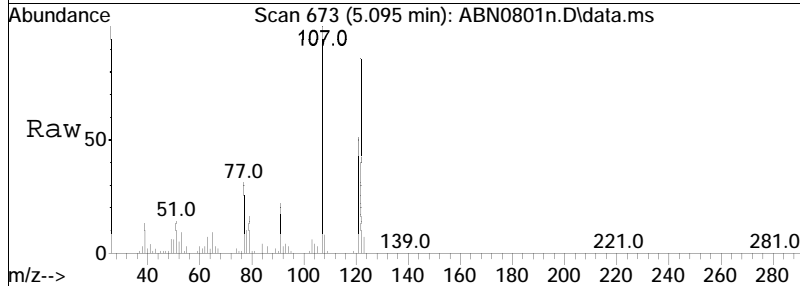
Tgt Ion	Ratio	Lower	Upper
139	100		
109	27.5	19.8	29.6
65	48.5	39.6	59.4

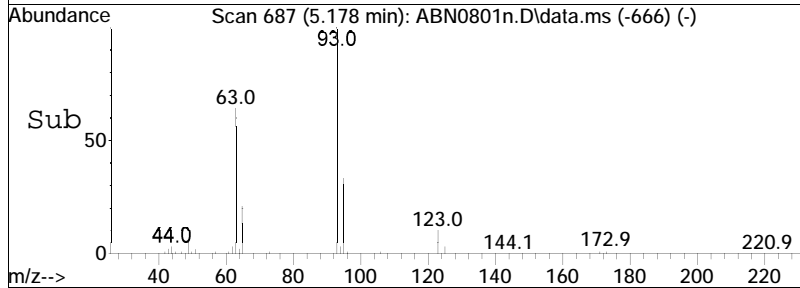
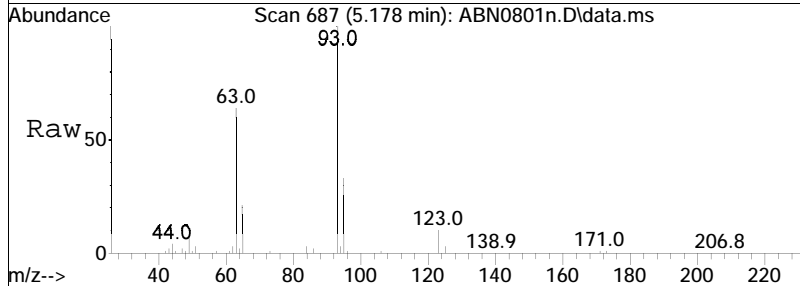
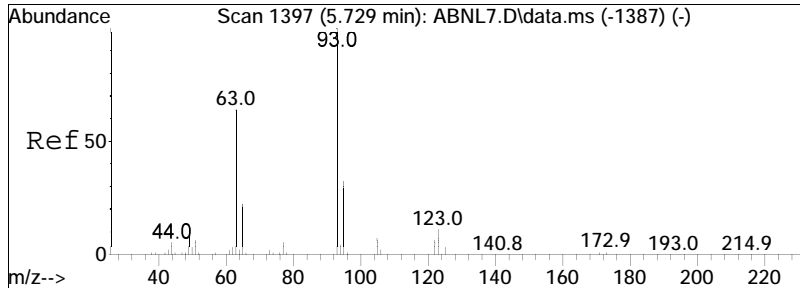




#23
 2,4-Dimethylphenol
 Concen: 49.86 ug/ml
 RT: 5.095 min Scan# 673
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

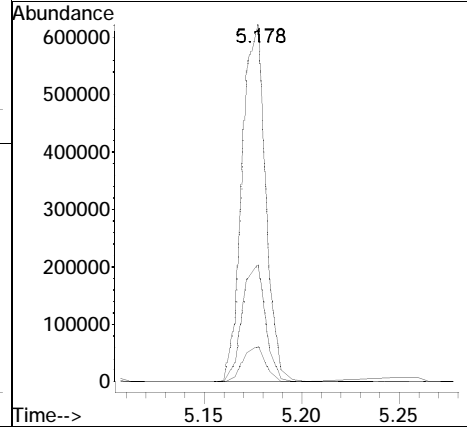
Tgt Ion	Resp	Lower	Upper
107	100		
121	52.4	43.0	64.4
122	87.3	71.8	107.8

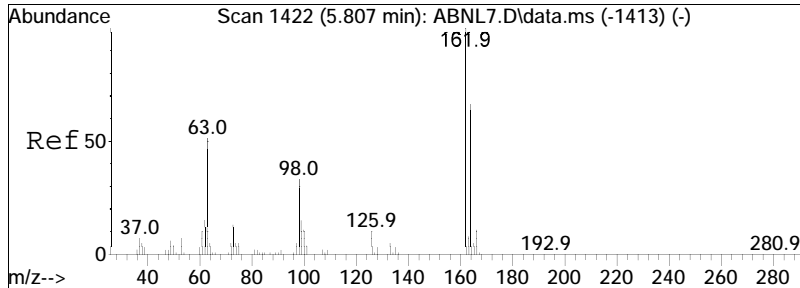




#24
 Bis(2-chloroethoxy)methane
 Concen: 46.06 ug/ml
 RT: 5.178 min Scan# 687
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

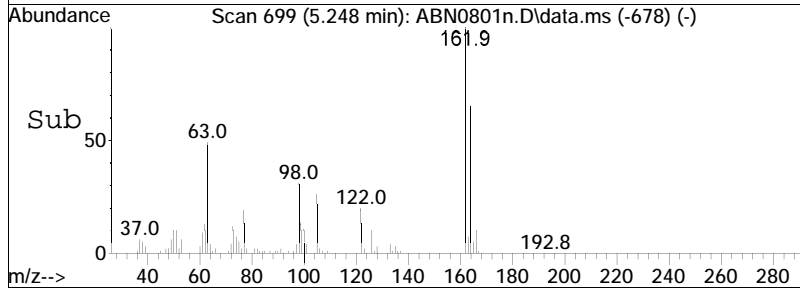
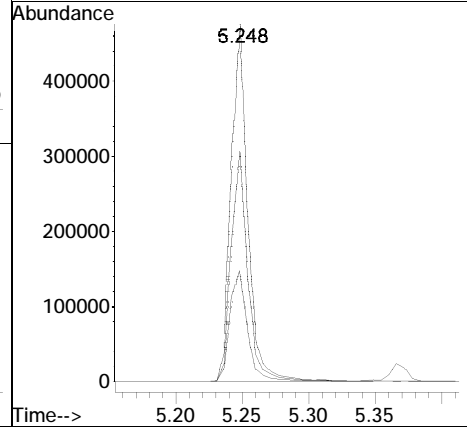
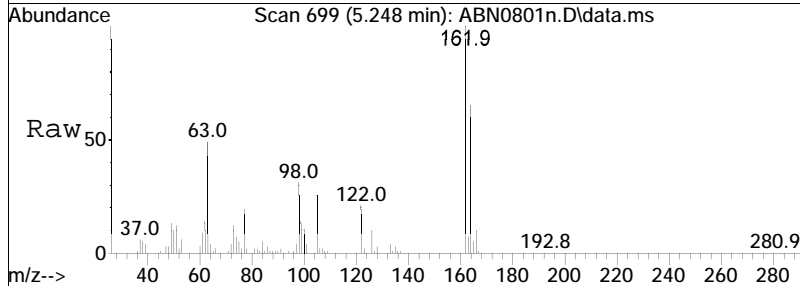
Tgt Ion	Resp	Lower	Upper
93	100		
95	32.6	26.6	40.0
123	9.6	11.0	16.4#

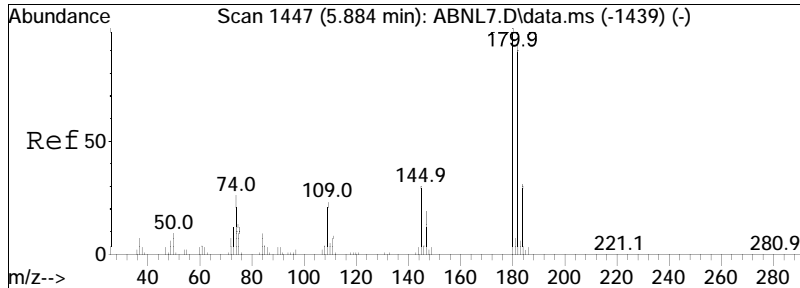




#25
 2,4-Dichlorophenol
 Concen: 51.91 ug/ml
 RT: 5.248 min Scan# 699
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

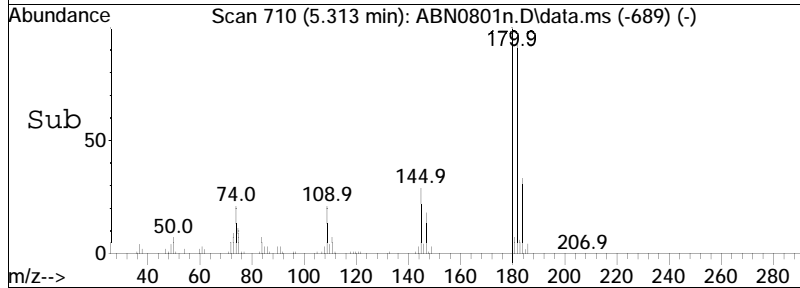
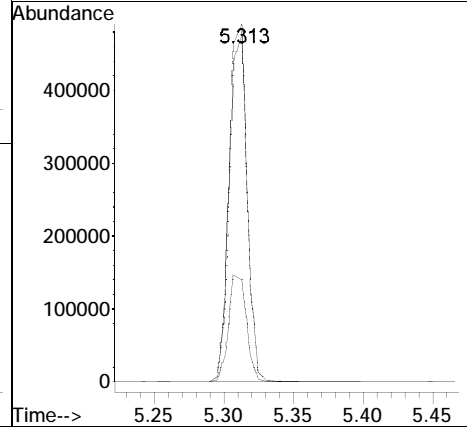
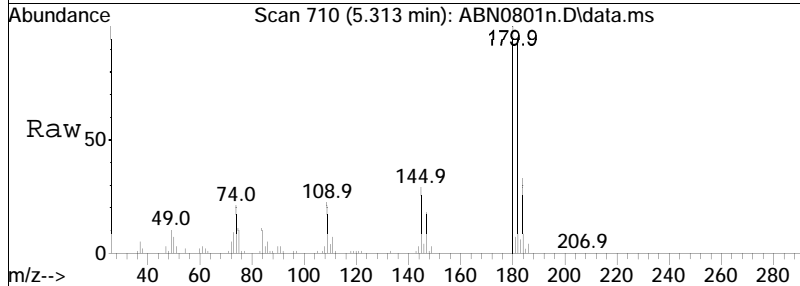
Tgt Ion	Resp	Lower	Upper
162	100		
164	64.5	51.6	77.4
98	33.2	29.4	44.2

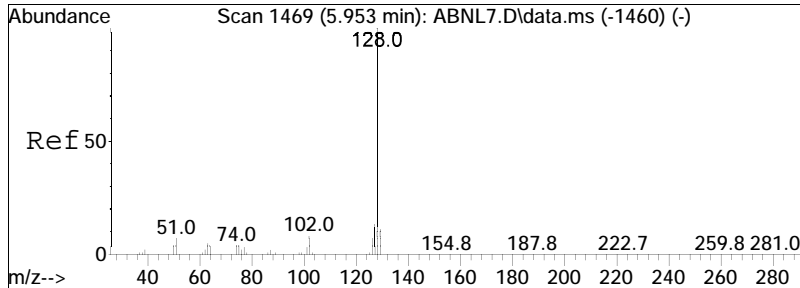




#26
 1,2,4-Trichlorobenzene
 Concen: 49.36 ug/ml
 RT: 5.313 min Scan# 710
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

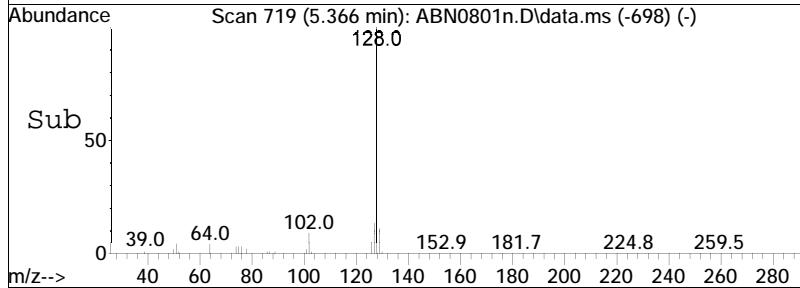
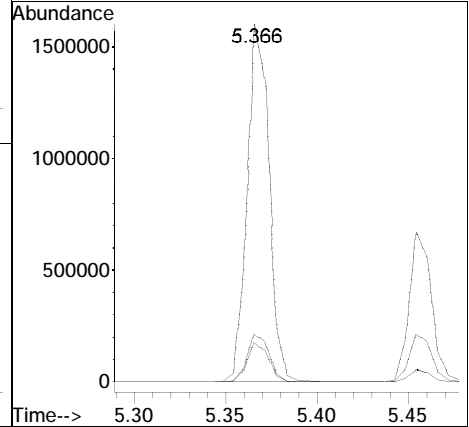
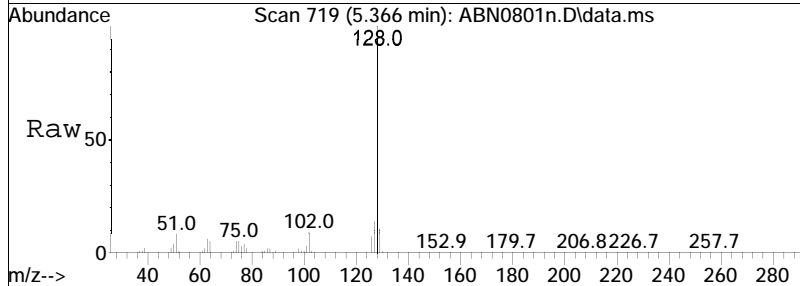
Tgt Ion	Resp	Lower	Upper
180	433916		
180	100		
182	95.8	77.0	115.6
145	30.3	25.2	37.8

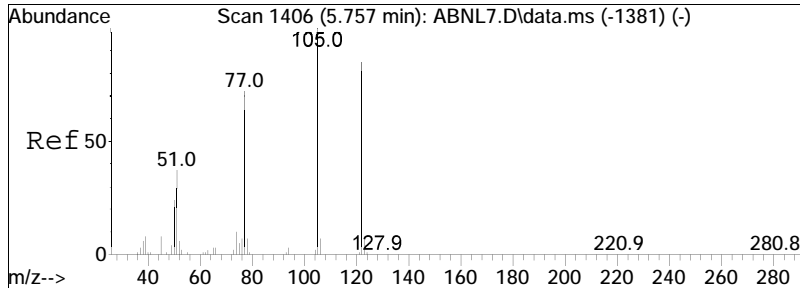




#36
 Naphthalene
 Concen: 51.26 ug/ml
 RT: 5.366 min Scan# 719
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

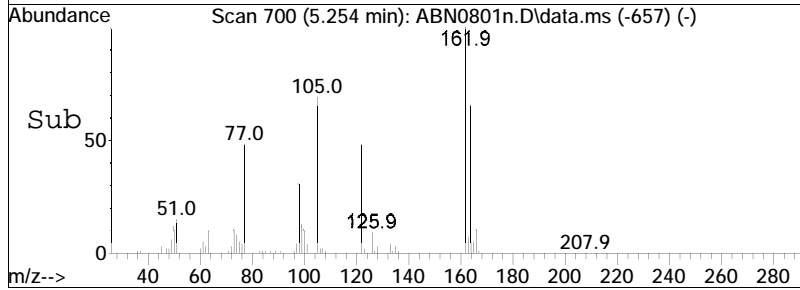
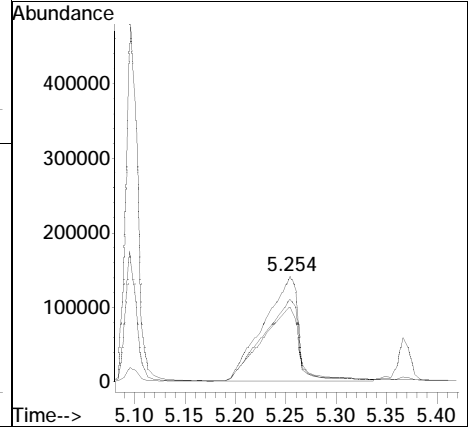
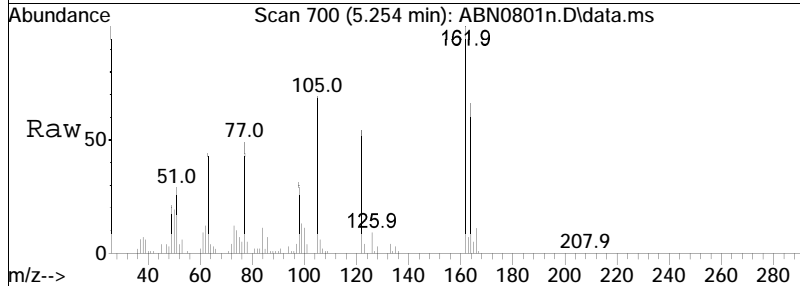
Tgt Ion	Resp	Lower	Upper
128	1325047		
129	10.9	8.9	13.3
127	13.6	10.9	16.3

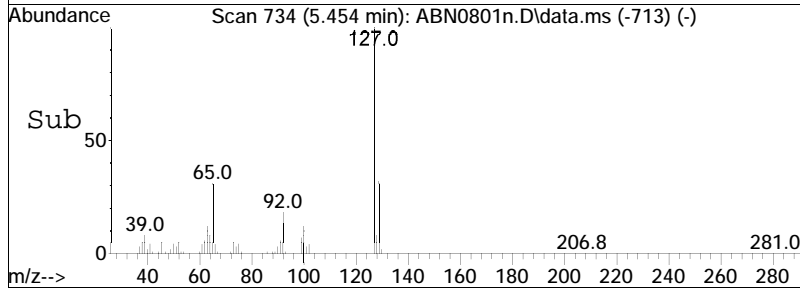
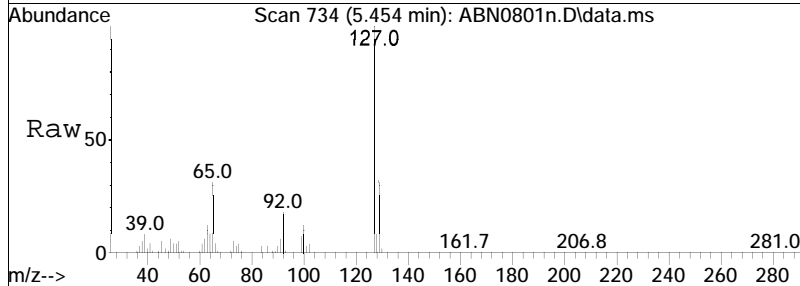
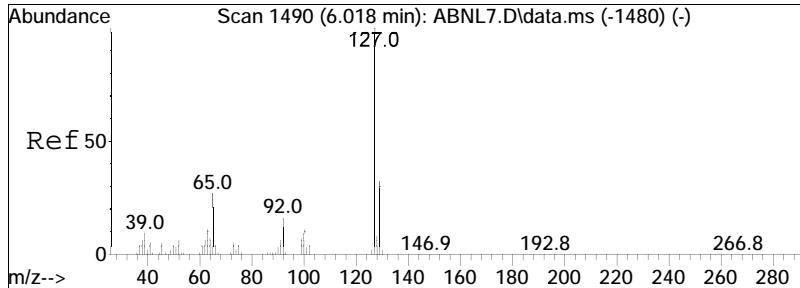




#37
 Benzoic Acid
 Concen: 50.44 ug/ml
 RT: 5.254 min Scan# 700
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

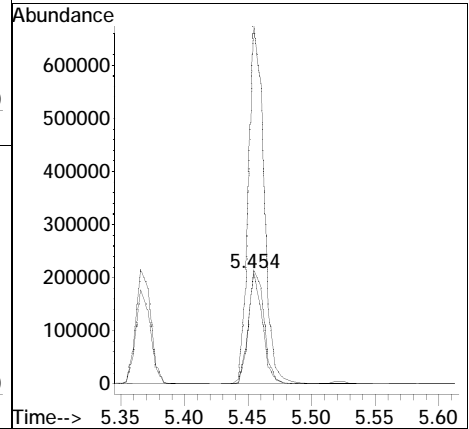
Tgt Ion	Ratio	Lower	Upper
105	100		
122	79.1	67.0	100.4
77	72.7	58.8	88.2

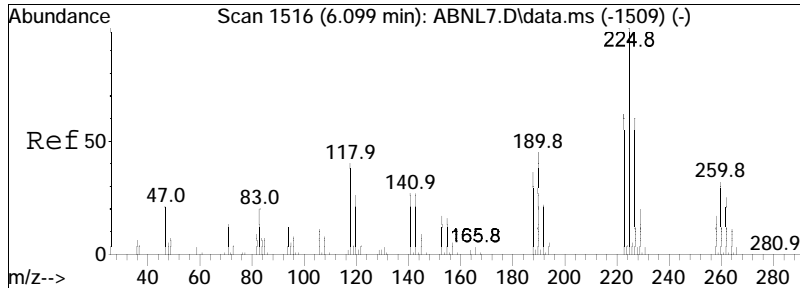




#38
 4-Chloroaniline
 Concen: 50.16 ug/ml
 RT: 5.454 min Scan# 734
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

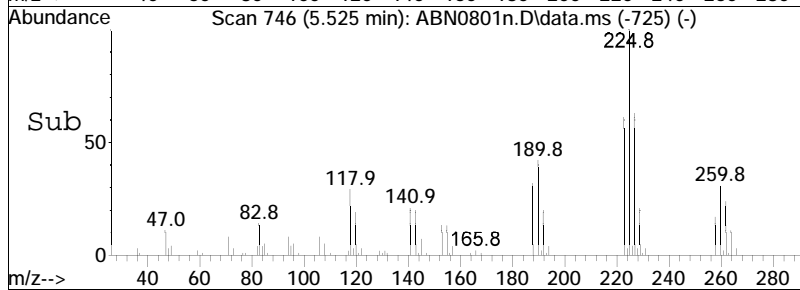
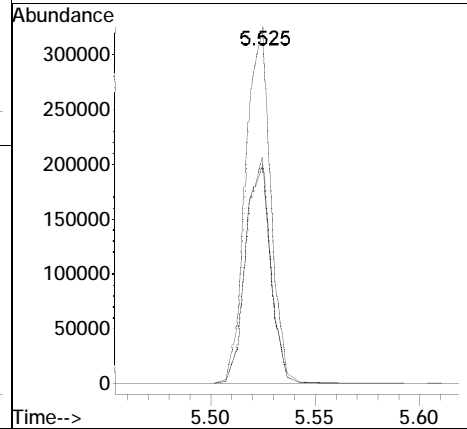
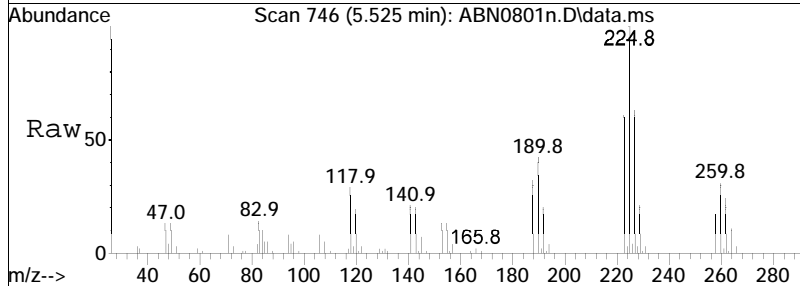
Tgt Ion:	Resp:	Lower	Upper
65	100		
127	343.2	274.4	411.6
129	109.5	88.2	132.4

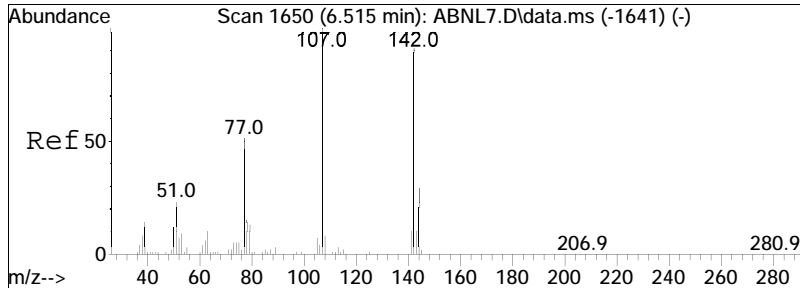




#39
 Hexachlorobutadiene
 Concen: 49.87 ug/ml
 RT: 5.525 min Scan# 746
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

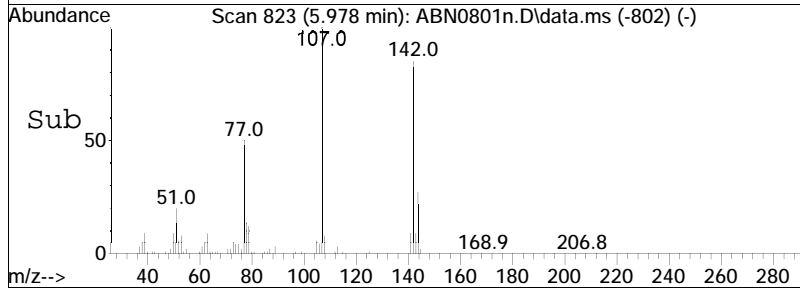
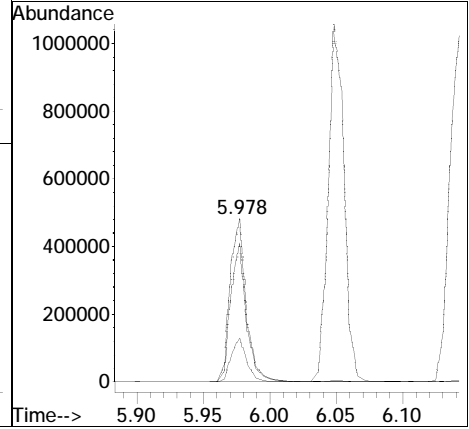
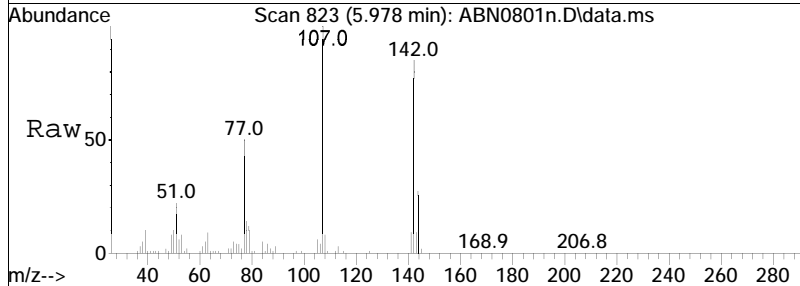
Tgt Ion	Resp	Lower	Upper
225	100		
223	62.0	49.3	73.9
227	62.9	51.1	76.7

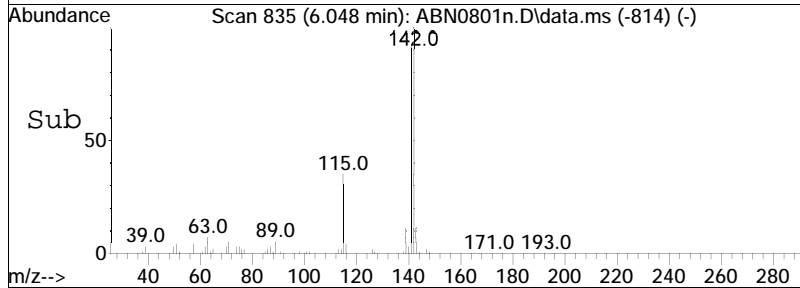
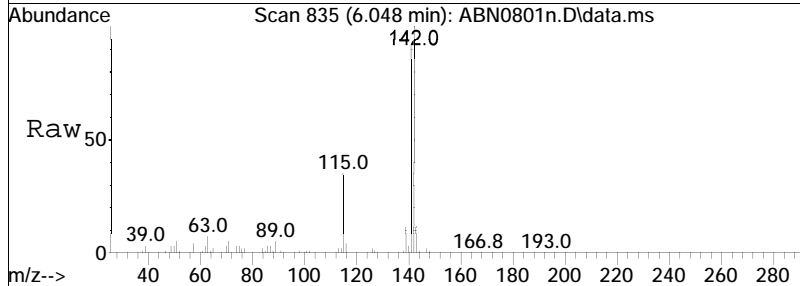
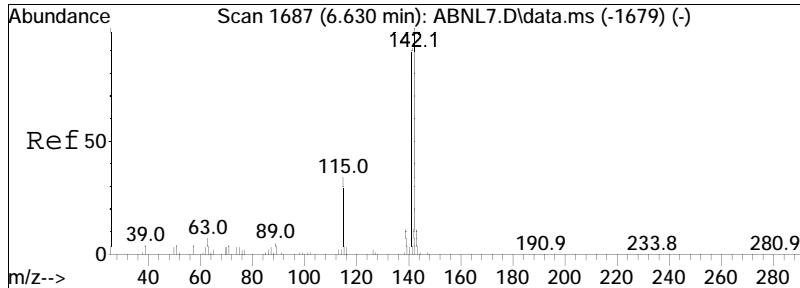




#40
 p-Chloro-m-cresol
 Concen: 51.49 ug/ml
 RT: 5.978 min Scan# 823
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

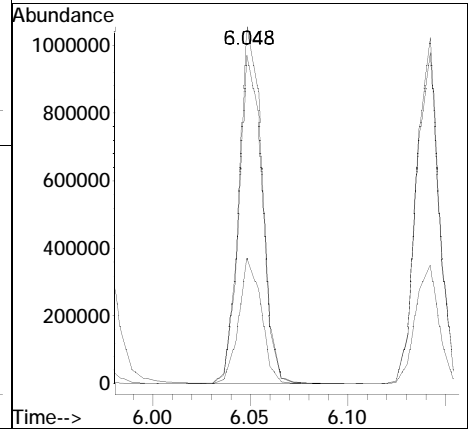
Tgt Ion	Resp	Lower	Upper
107	100		
144	26.0	21.5	32.3
142	81.5	66.8	100.2

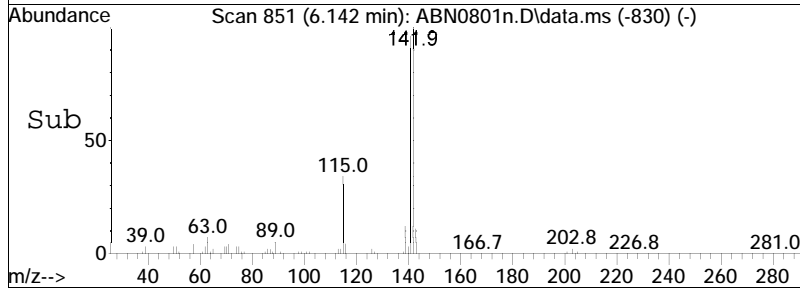
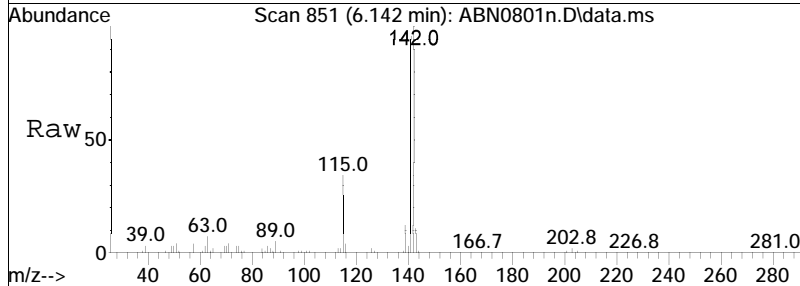
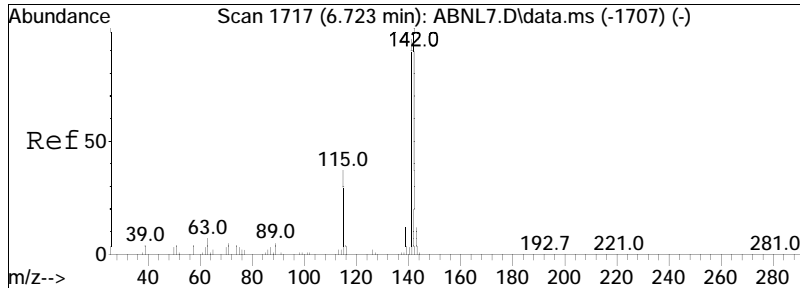




#41
 2-Methylnaphthalene
 Concen: 51.03 ug/ml
 RT: 6.048 min Scan# 835
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

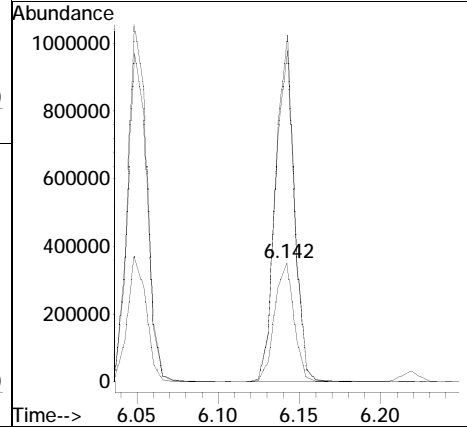
Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.0	109.6
115	34.2	25.4	38.2

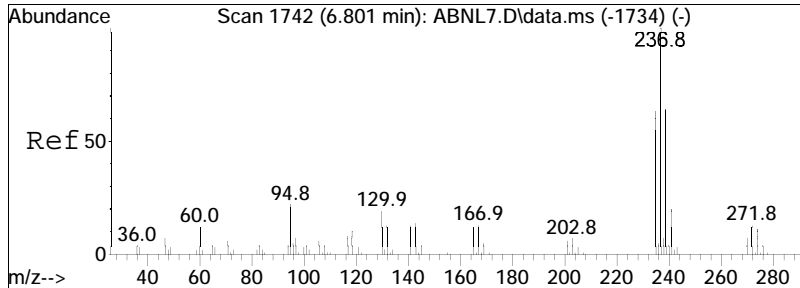




#42
 1-Methylnaphthalene
 Concen: 44.59 ug/ml
 RT: 6.142 min Scan# 851
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

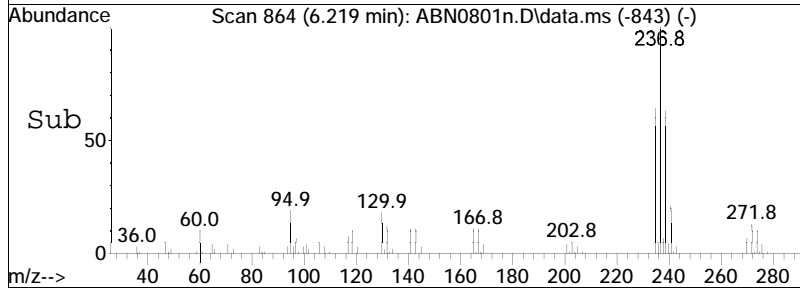
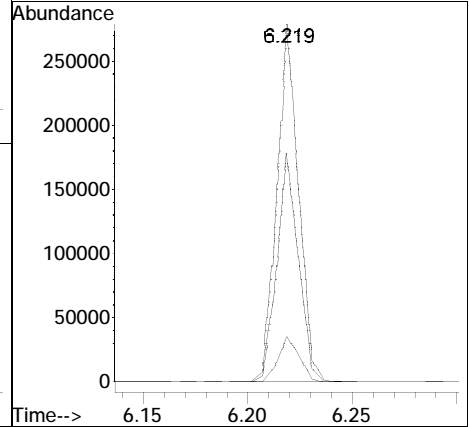
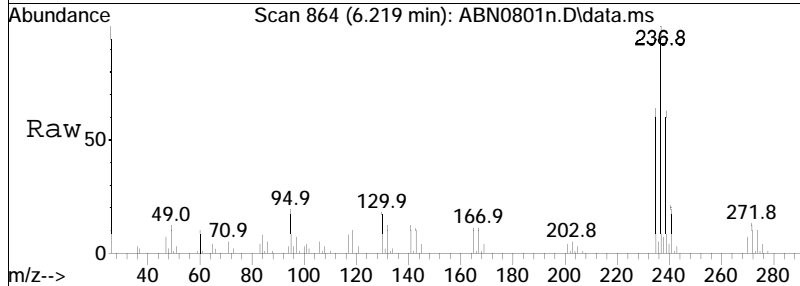
Tgt Ion	Resp	Lower	Upper
115	100		
141	272.8	226.0	339.0
142	282.8	237.6	356.4

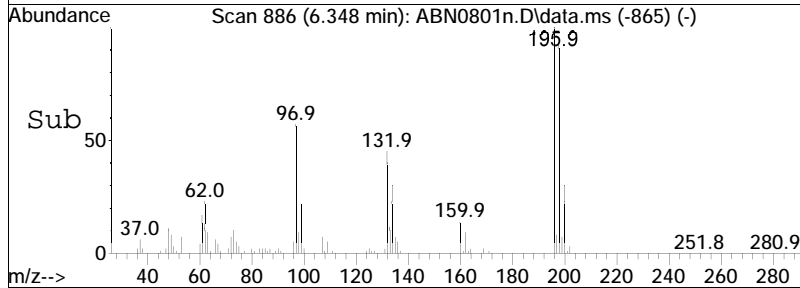
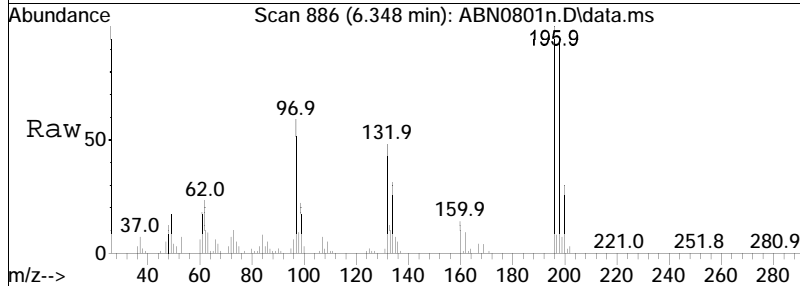
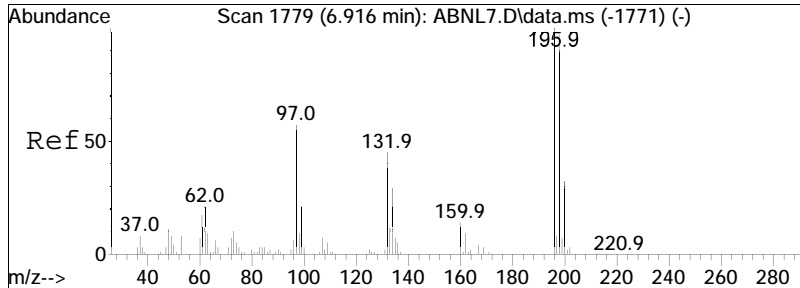




#43
 Hexachlorocyclopentadiene
 Concen: 40.66 ug/ml
 RT: 6.219 min Scan# 864
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

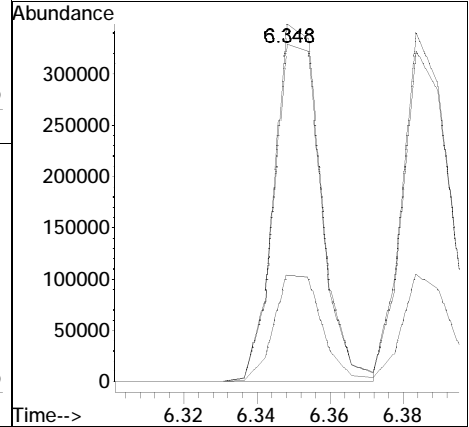
Tgt Ion	Resp	Lower	Upper
237	100		
235	63.3	49.5	74.3
272	12.7	10.2	15.4

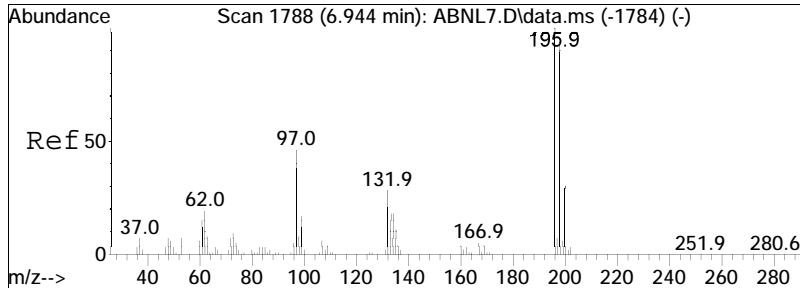




#44
 2,4,6-Trichlorophenol
 Concen: 55.37 ug/ml
 RT: 6.348 min Scan# 886
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

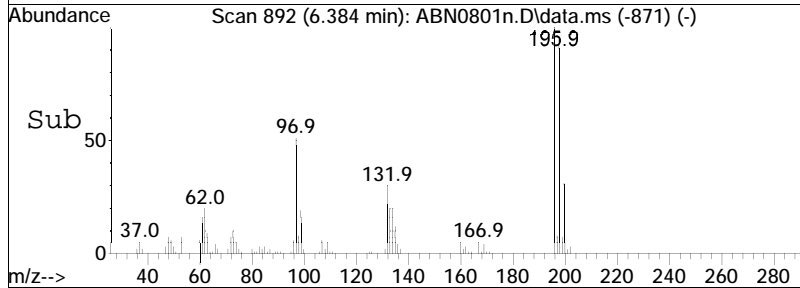
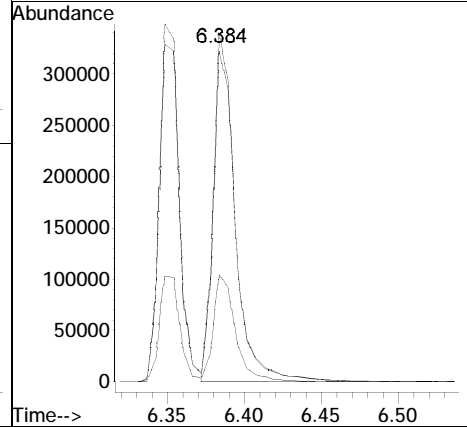
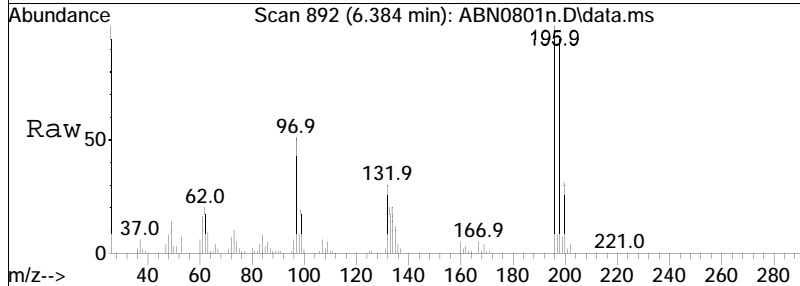
Tgt Ion	Ratio	Lower	Upper
196	100		
198	95.2	76.4	114.6
200	30.6	24.4	36.6

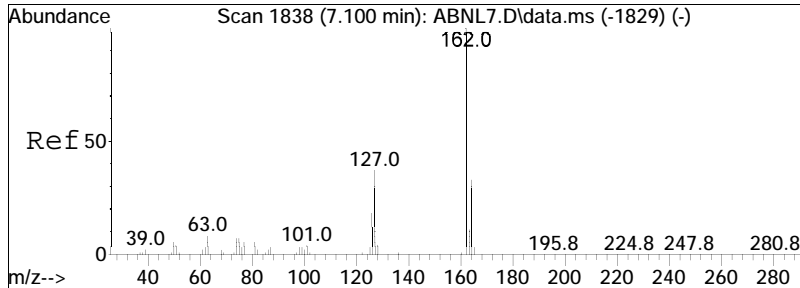




#45
 2,4,5-Trichlorophenol
 Concen: 53.56 ug/ml
 RT: 6.384 min Scan# 892
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

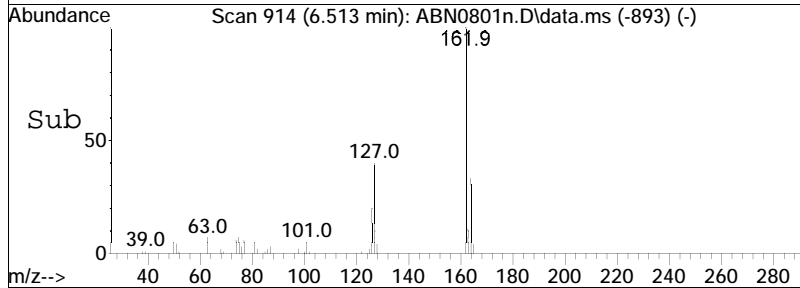
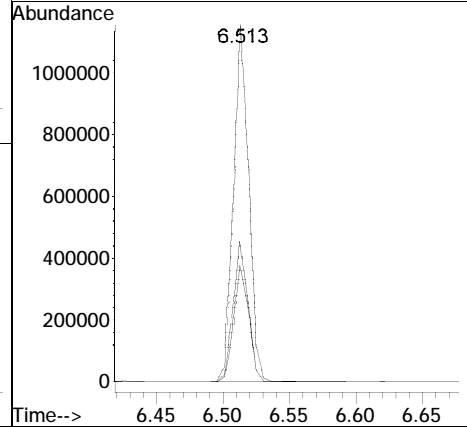
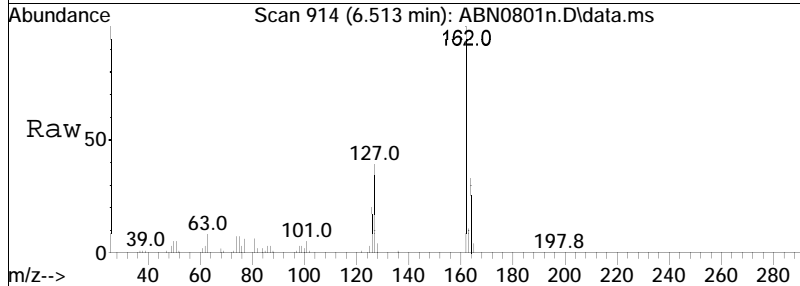
Tgt Ion	Ratio	Lower	Upper
196	100		
200	31.2	25.2	37.8
198	96.1	77.7	116.5

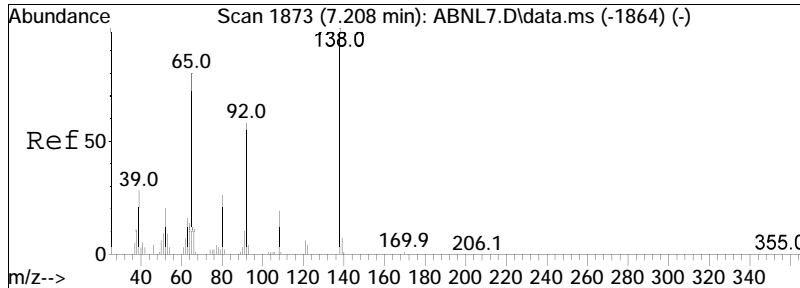




#47
 2-Chloronaphthalene
 Concen: 50.76 ug/ml
 RT: 6.513 min Scan# 914
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

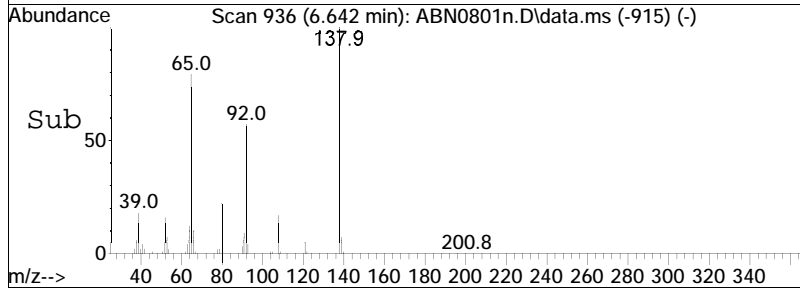
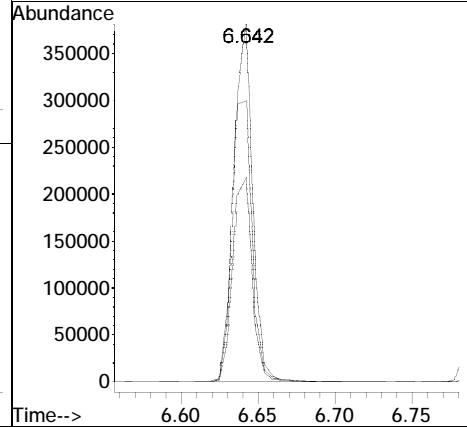
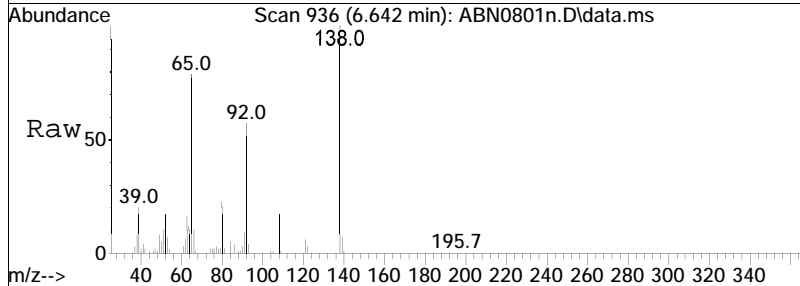
Tgt Ion	Ratio	Lower	Upper
162	100		
127	38.5	31.7	47.5
164	32.5	26.2	39.4

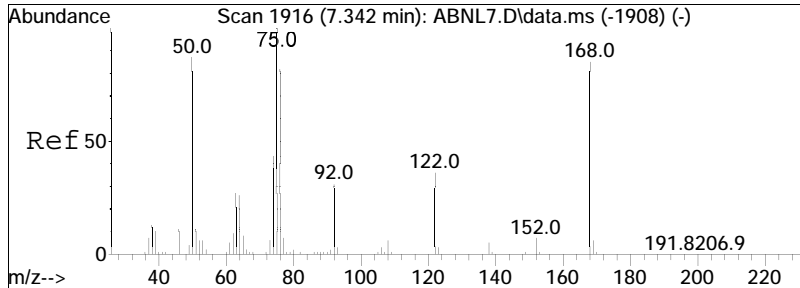




#48
 2-Nitroaniline
 Concen: 53.34 ug/ml
 RT: 6.642 min Scan# 936
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

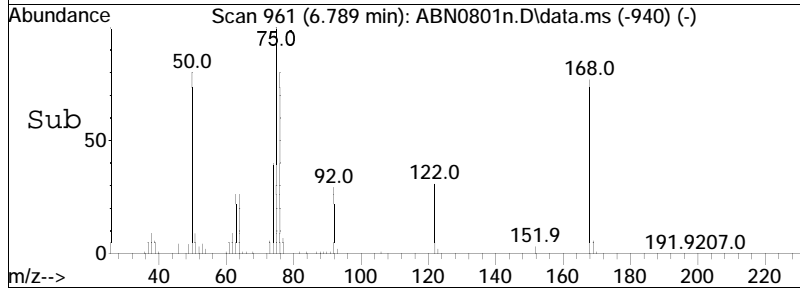
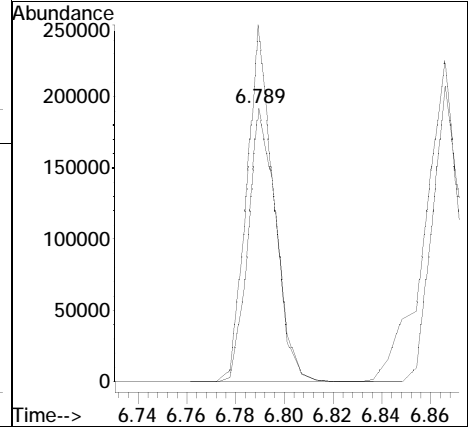
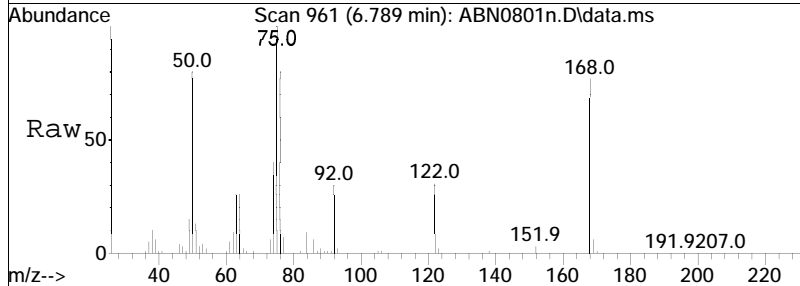
Tgt Ion	Ratio	Lower	Upper
138	100		
92	59.5	48.0	72.0
65	85.8	72.8	109.2

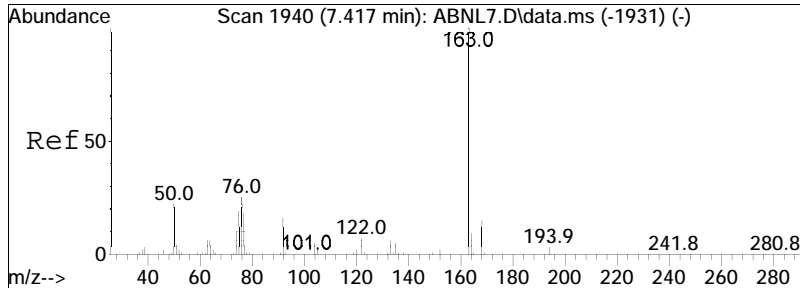




#49
 1,4-Dinitrobenzene
 Concen: 57.72 ug/ml
 RT: 6.789 min Scan# 961
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

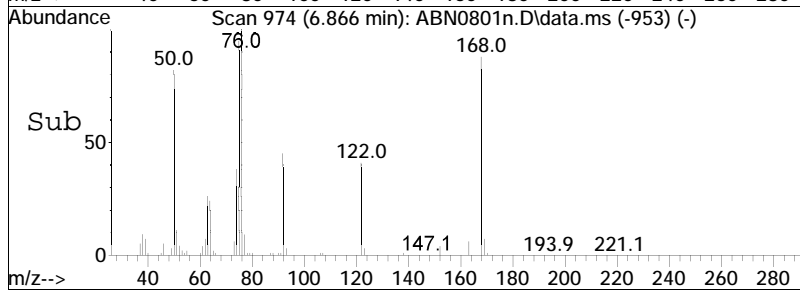
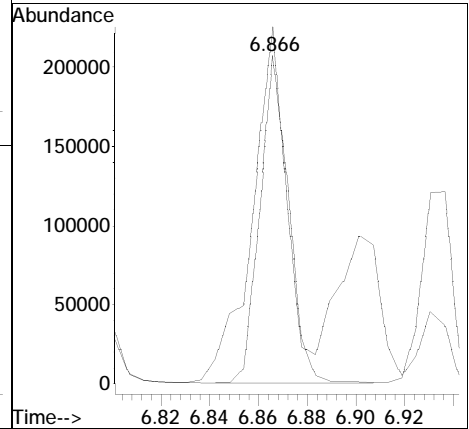
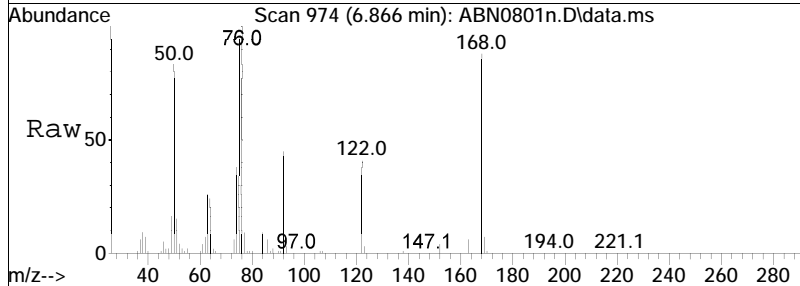
Tgt Ion: 168 Resp: 155967
 Ion Ratio Lower Upper
 168 100
 75 122.7 107.2 160.8

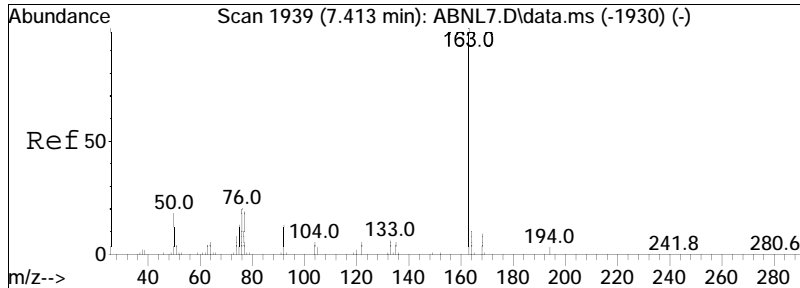




#50
 1,3-Dinitrobenzene
 Concen: 56.39 ug/ml
 RT: 6.866 min Scan# 974
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

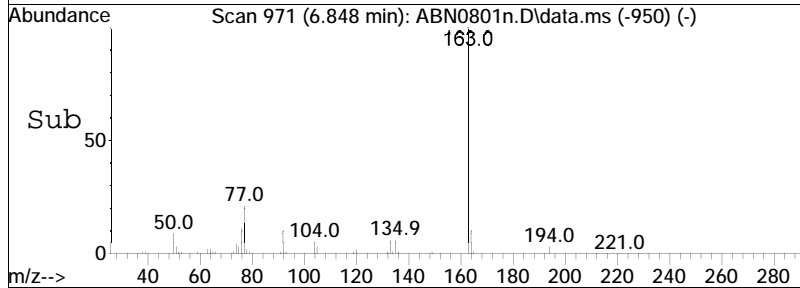
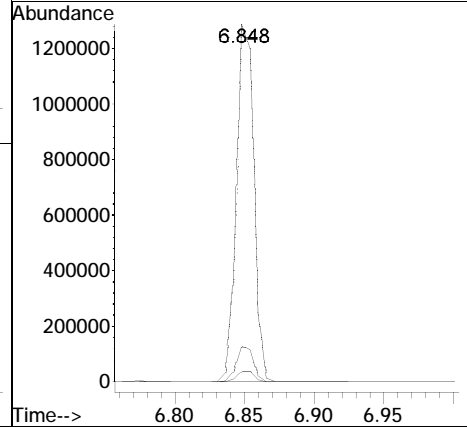
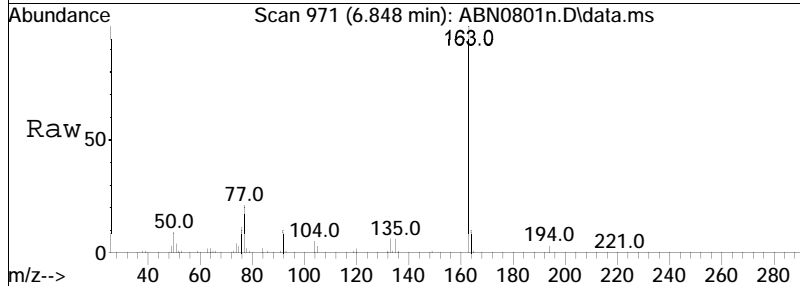
Tgt Ion	Resp	Lower	Upper
168	100		
75	131.8	112.2	168.2

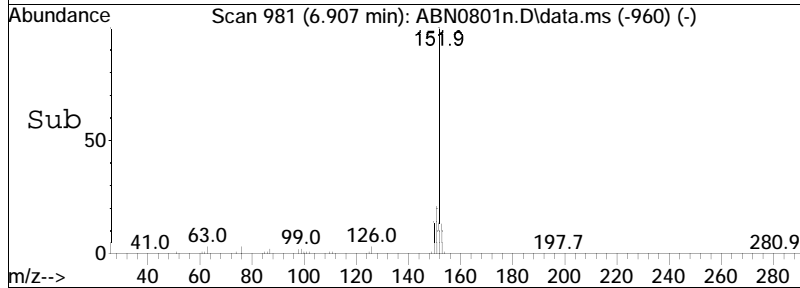
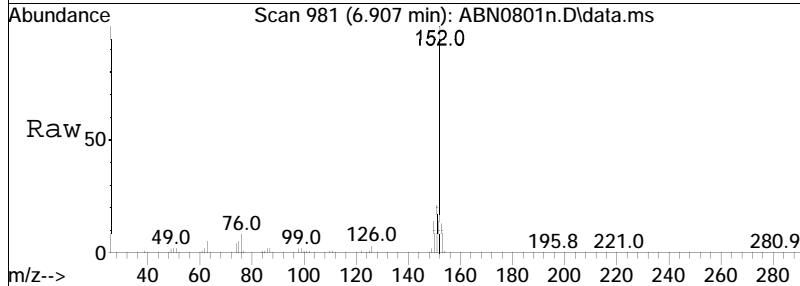
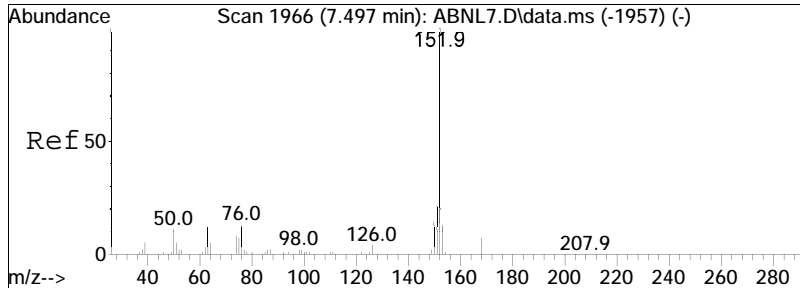




#51
 Dimethyl phthalate
 Concen: 49.96 ug/ml
 RT: 6.848 min Scan# 971
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

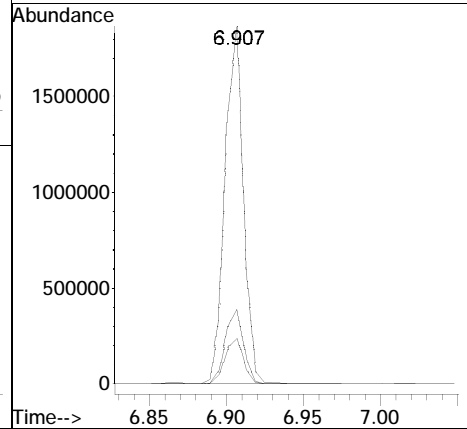
Tgt Ion	163	194	164	Resp:	1111207	Lower	Upper
Ion Ratio	100	3.1	9.9			2.4	3.6
						8.1	12.1

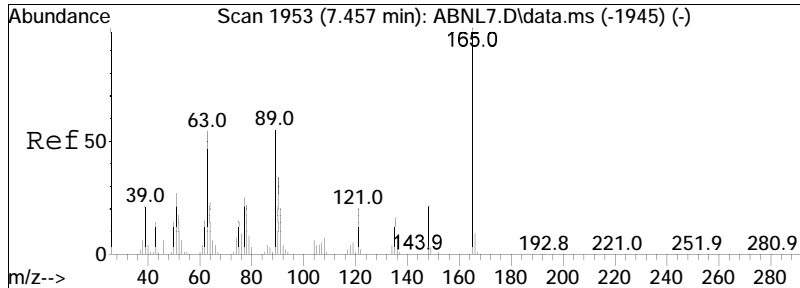




#52
 Acenaphthylene
 Concen: 54.04 ug/ml
 RT: 6.907 min Scan# 981
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

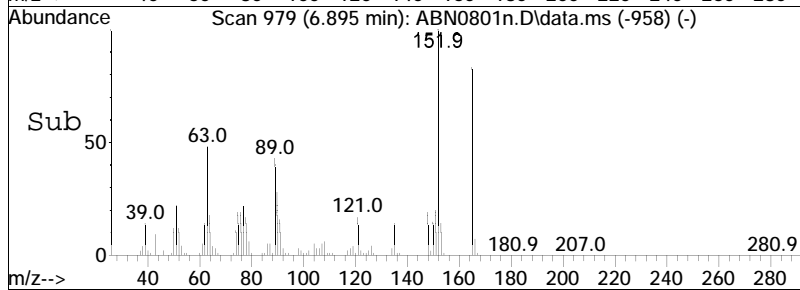
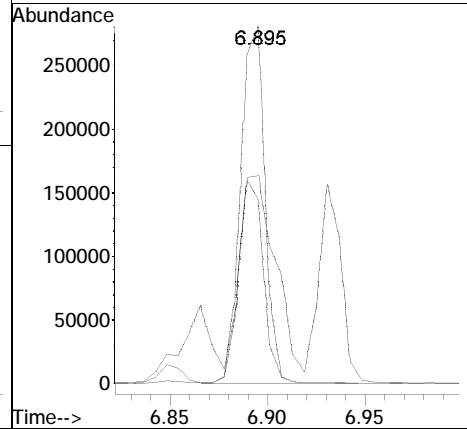
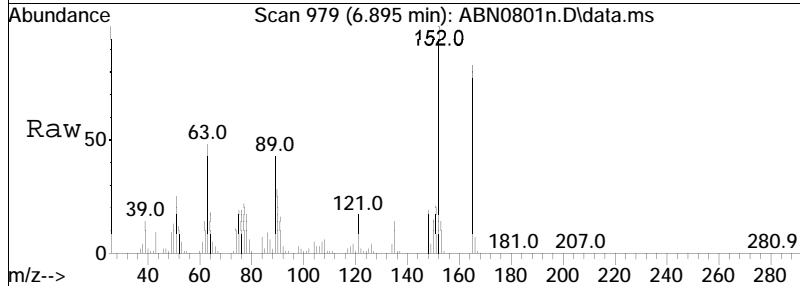
Tgt Ion	Resp	Lower	Upper
152	100		
151	20.9	16.6	24.8
153	13.0	10.5	15.7

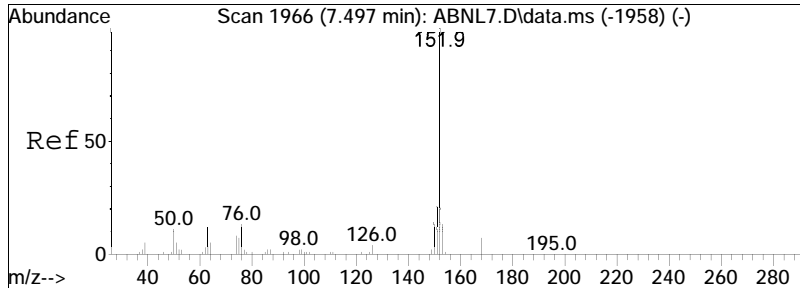




#53
 2,6-Dinitrotoluene
 Concen: 51.30 ug/ml
 RT: 6.895 min Scan# 979
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

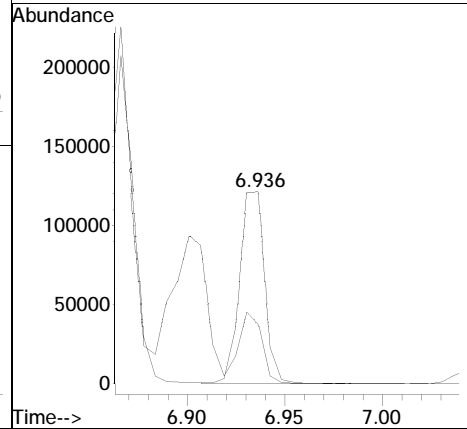
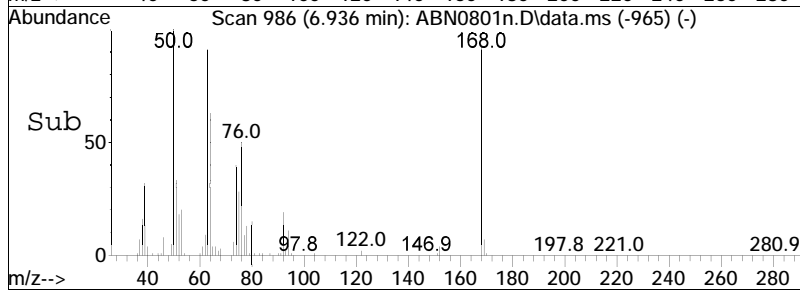
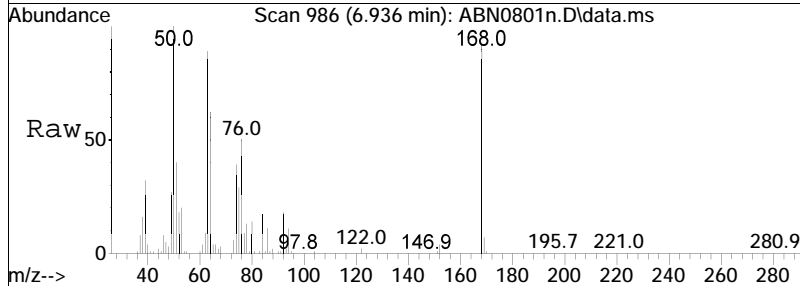
Tgt Ion	Ratio	Lower	Upper
165	100		
89	57.9	44.7	67.1
63	87.7	48.2	72.4#

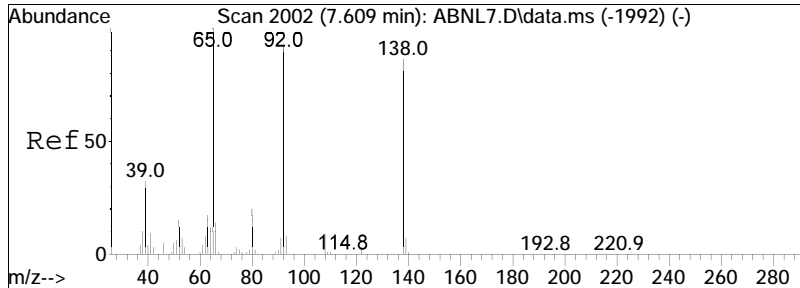




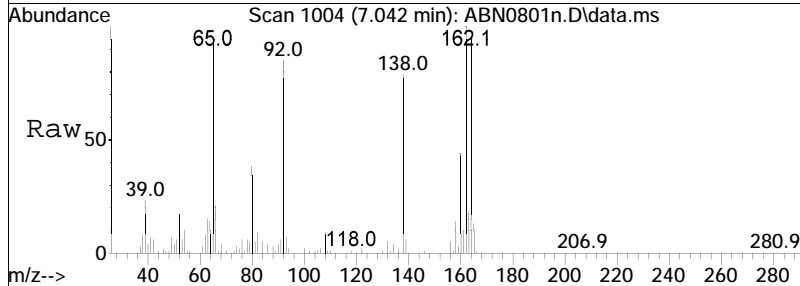
#54
 1,2-Dinitrobenzene
 Concen: 53.51 ug/ml
 RT: 6.936 min Scan# 986
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

Tgt Ion	Resp	Lower	Upper
168	109080		
75	35.0	104.8	157.2#

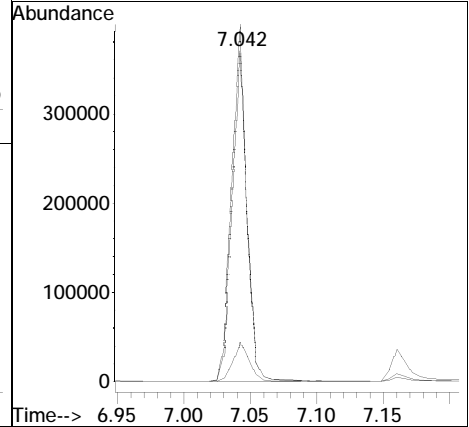
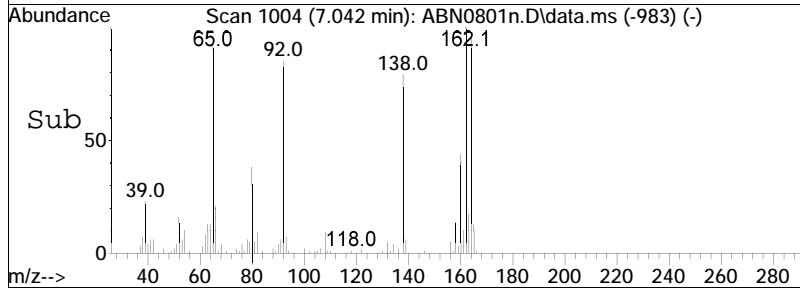


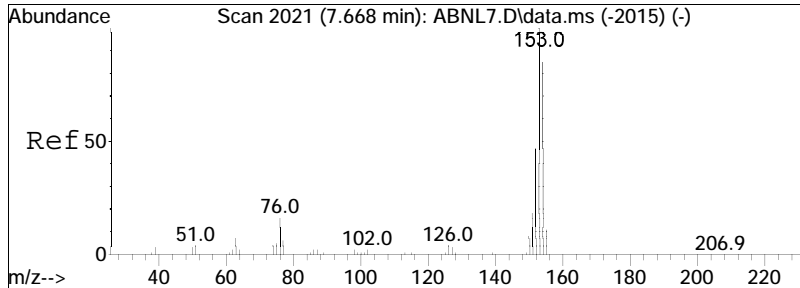


#64
 3-Nitroaniline
 Concen: 51.30 ug/ml
 RT: 7.042 min Scan# 1004
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm



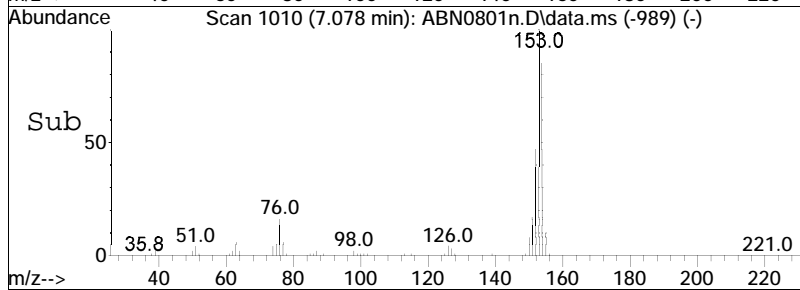
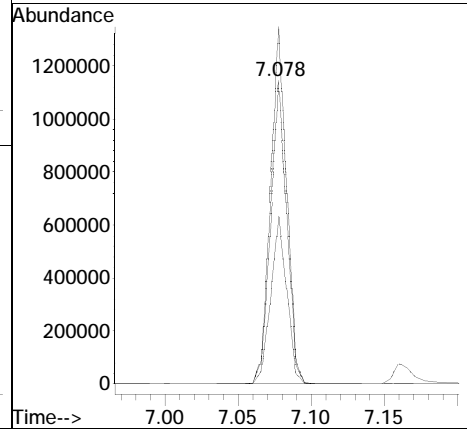
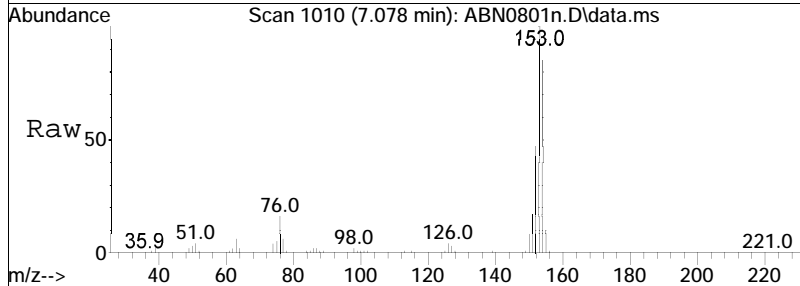
Tgt Ion	Resp	Lower	Upper
138	283360		
138	100		
92	107.6	86.4	129.6
108	13.2	9.4	14.0

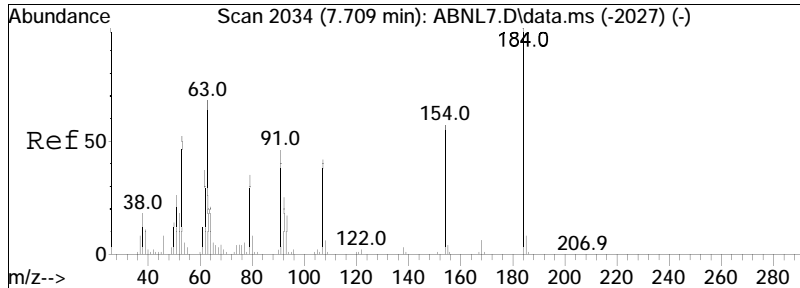




#65
 Acenaphthene
 Concen: 50.23 ug/ml
 RT: 7.078 min Scan# 1010
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

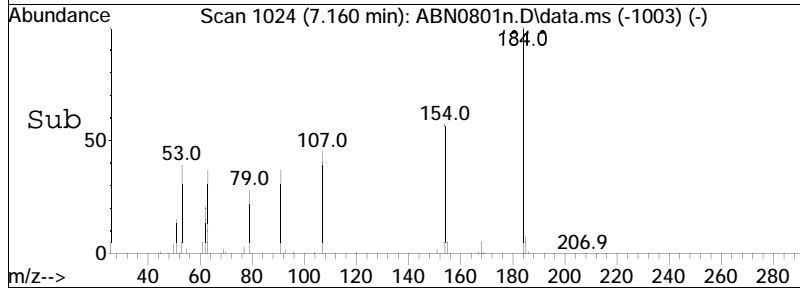
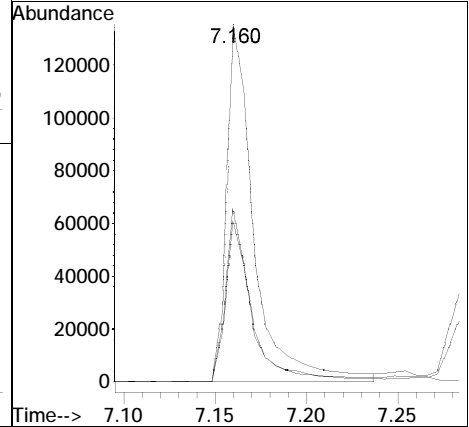
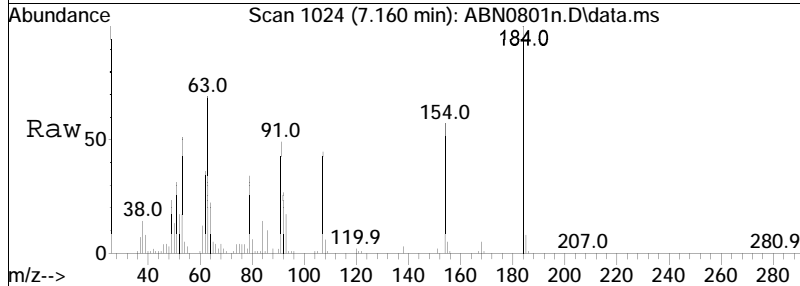
Tgt Ion	Resp	Lower	Upper
154	100		
153	117.9	94.2	141.2
152	55.4	44.1	66.1

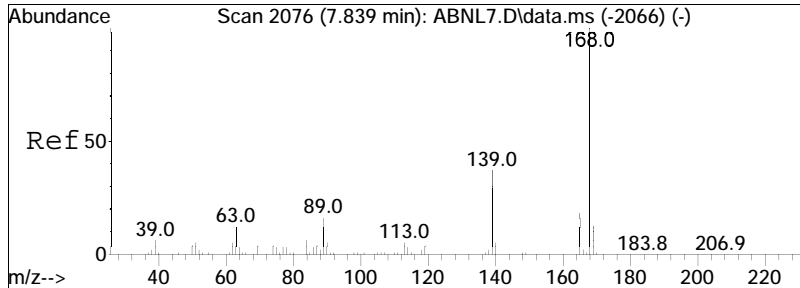




#66
 2,4-Dinitrophenol
 Concen: 52.85 ug/ml
 RT: 7.160 min Scan# 1024
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

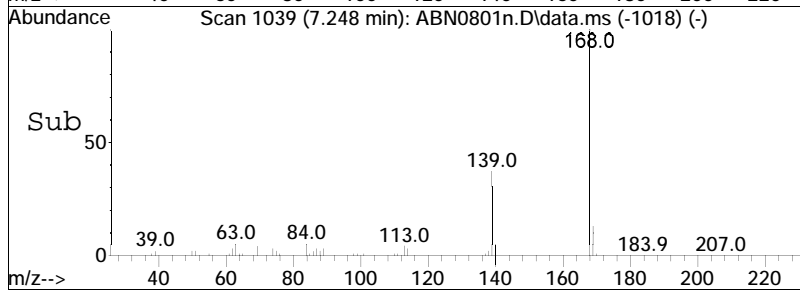
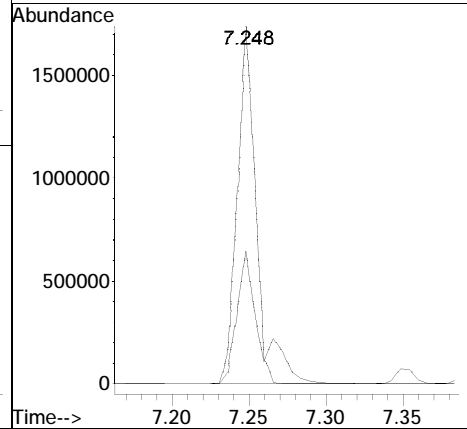
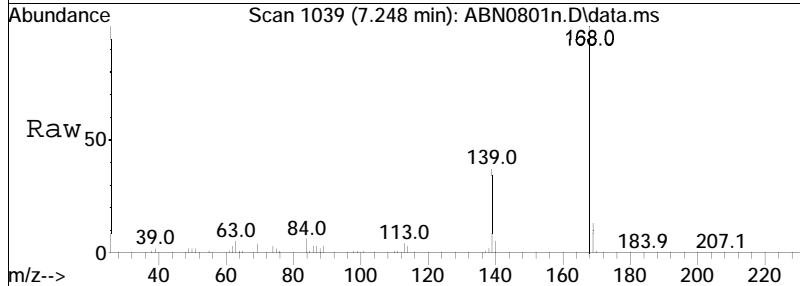
Tgt Ion	Ratio	Lower	Upper
184	100		
107	44.6	37.3	55.9
91	46.6	43.8	65.6

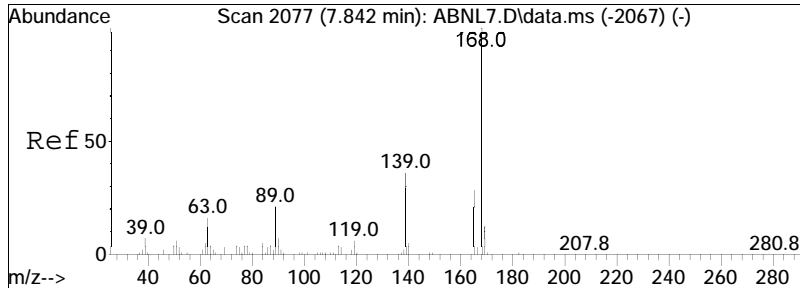




#67
 Dibenzofuran
 Concen: 49.86 ug/ml
 RT: 7.248 min Scan# 1039
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

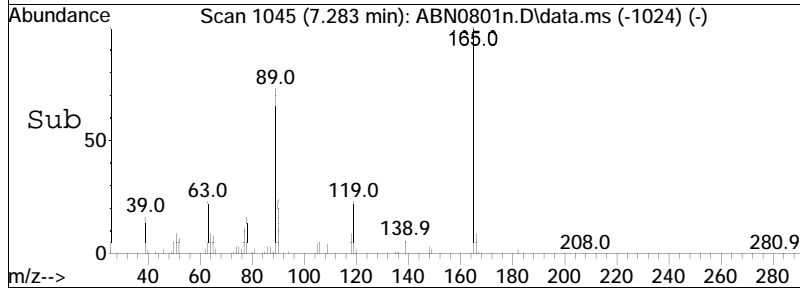
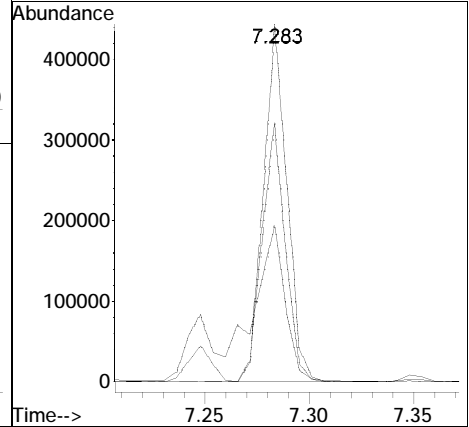
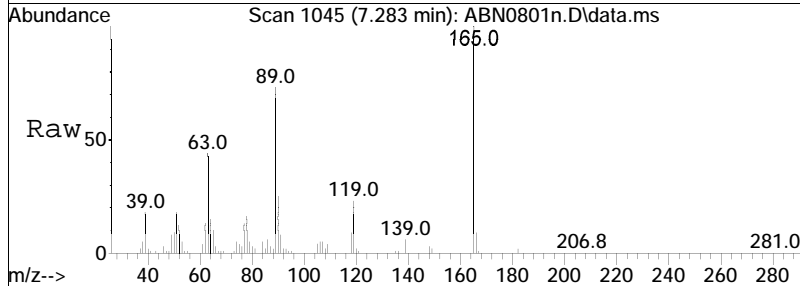
Tgt Ion: 168 Resp: 1347389
 Ion Ratio Lower Upper
 168 100
 139 52.5 30.4 45.6#

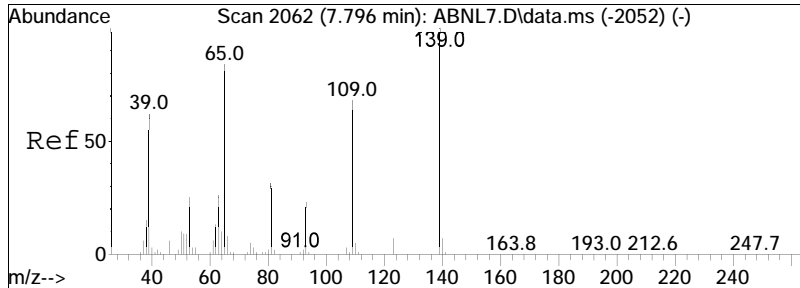




#68
 2,4-Dinitrotoluene
 Concen: 54.42 ug/ml
 RT: 7.283 min Scan# 1045
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

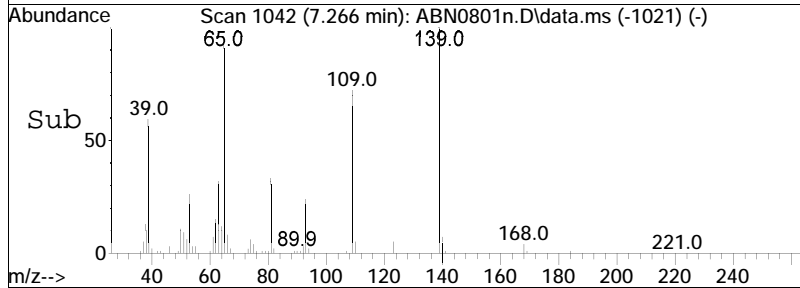
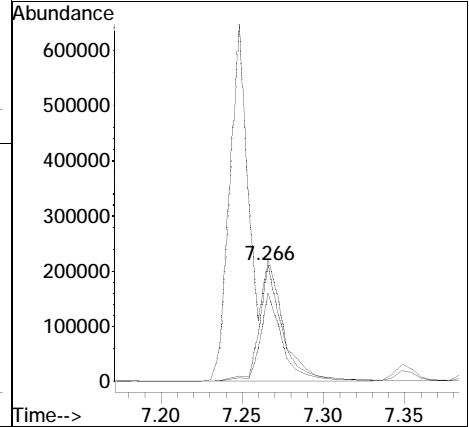
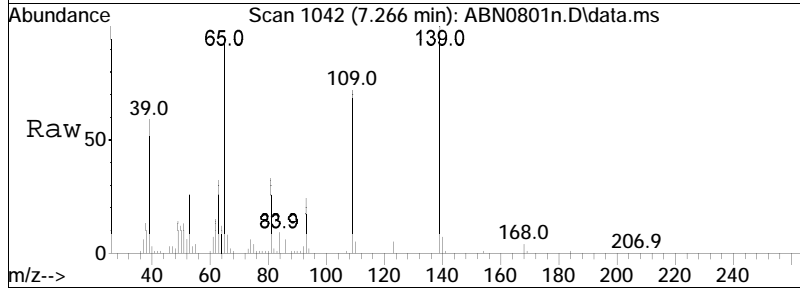
Tgt Ion	Ratio	Lower	Upper
165	100		
89	71.9	69.8	104.8
63	56.8	59.2	88.8#

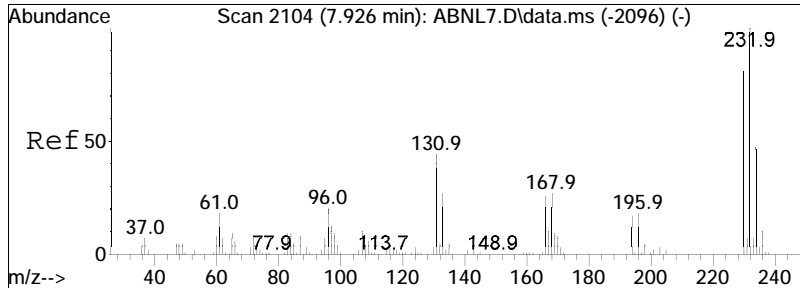




#69
 4-Nitrophenol
 Concen: 52.14 ug/ml
 RT: 7.266 min Scan# 1042
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

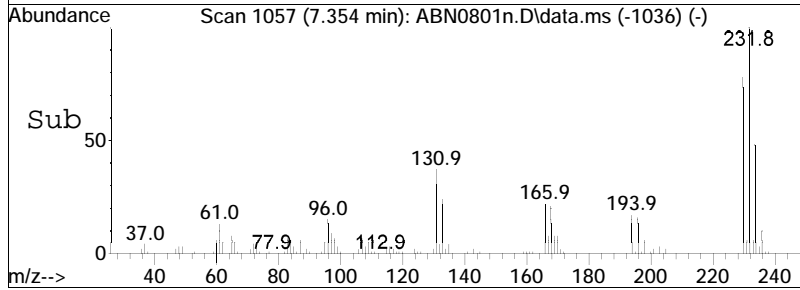
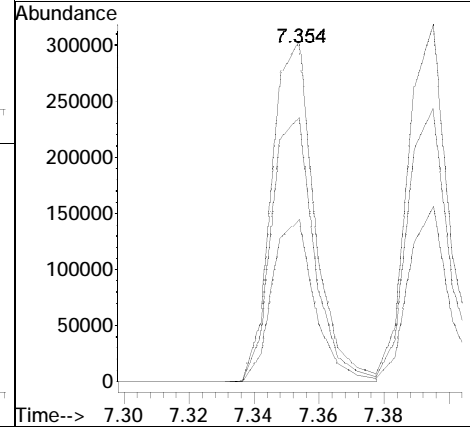
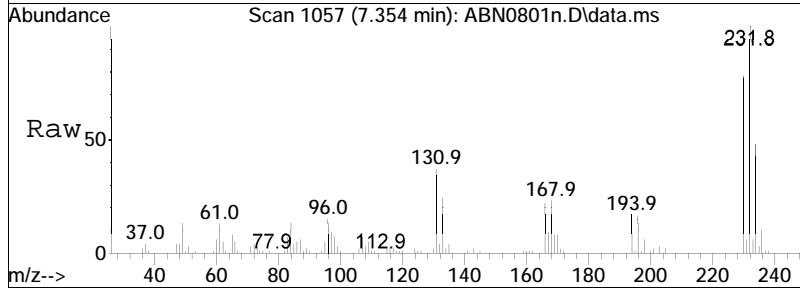
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
65	100		
109	72.5	52.8	79.2
139	332.2	84.1	126.1#

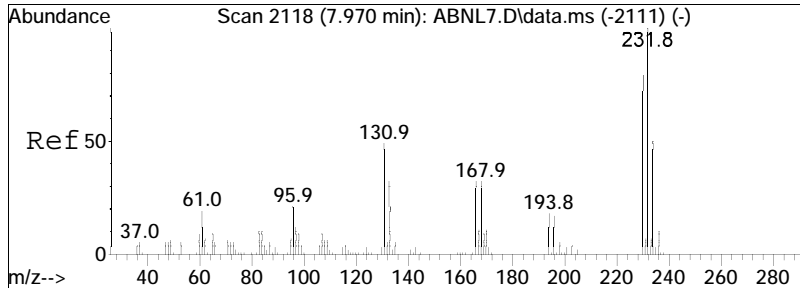




#70
 2,3,5,6-Tetrachlorophenol
 Concen: 53.82 ug/ml
 RT: 7.354 min Scan# 1057
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

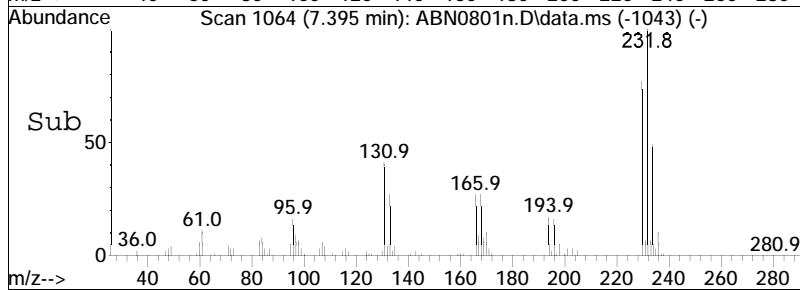
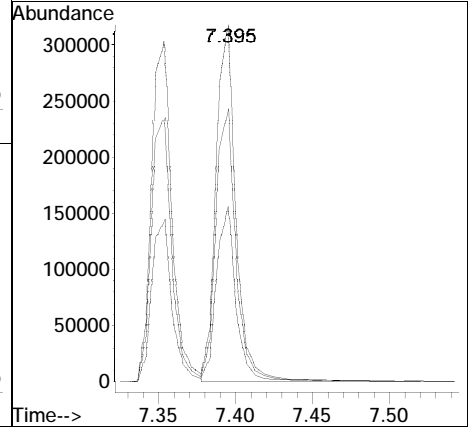
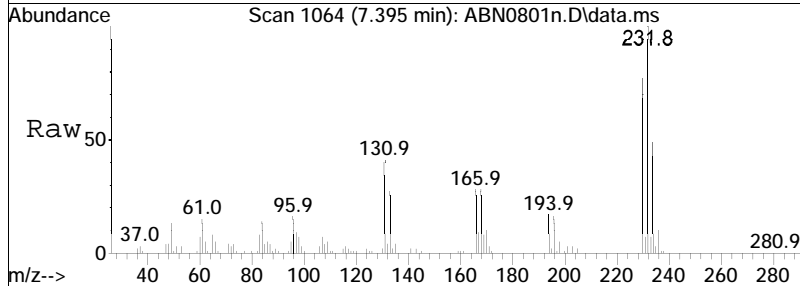
Tgt Ion	Ratio	Lower	Upper
232	100		
230	77.7	63.4	95.0
234	47.5	38.0	57.0

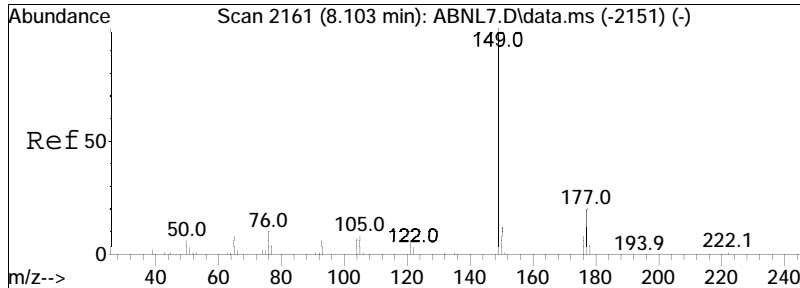




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 51.86 ug/ml
 RT: 7.395 min Scan# 1064
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

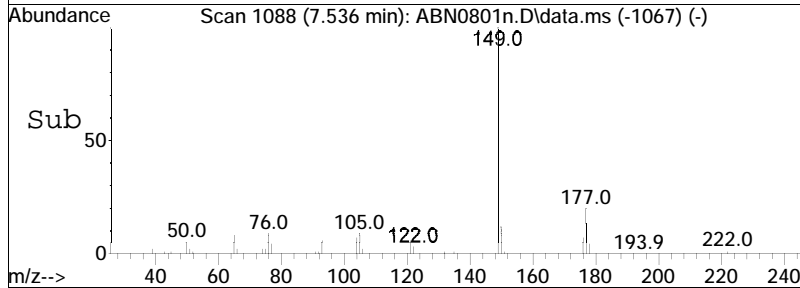
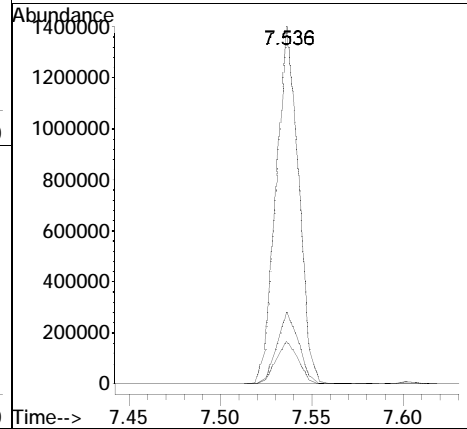
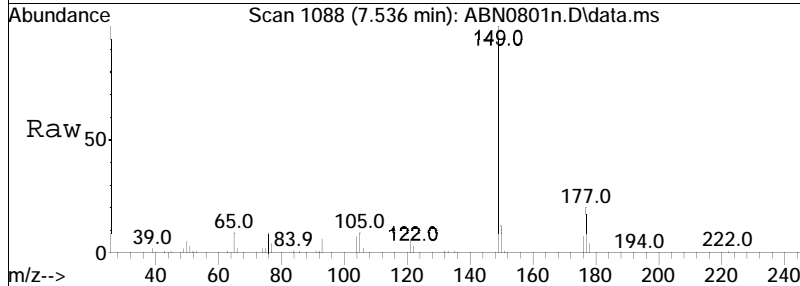
Tgt Ion	Ratio	Lower	Upper
232	100		
230	77.8	62.8	94.2
234	48.2	38.3	57.5

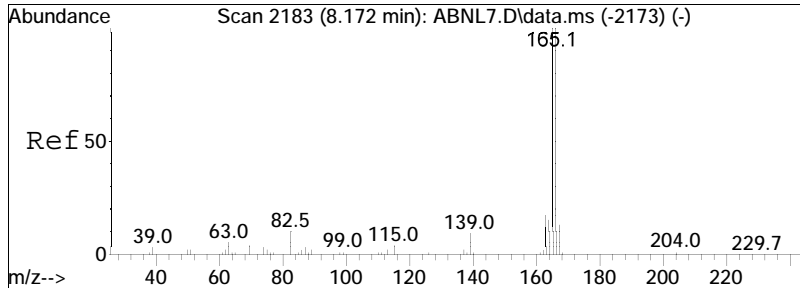




#72
 Diethyl phthalate
 Concen: 47.29 ug/ml
 RT: 7.536 min Scan# 1088
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

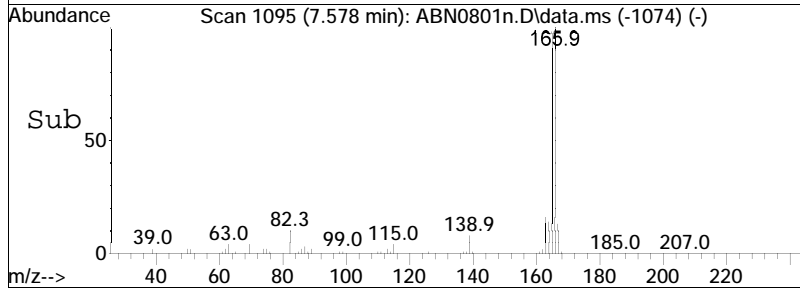
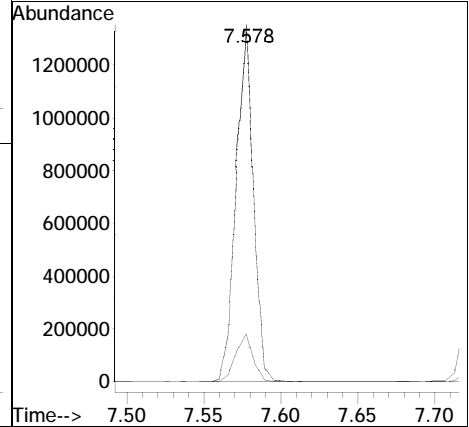
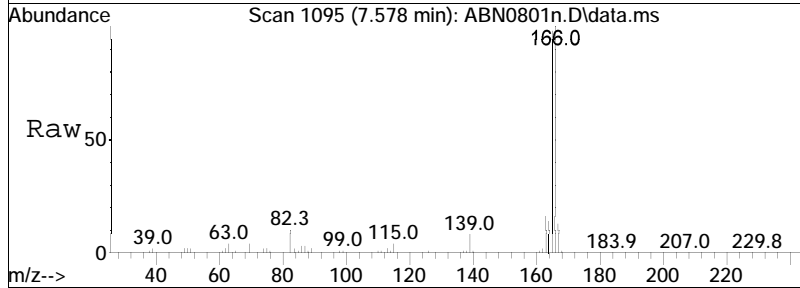
Tgt Ion	Resp	Lower	Upper
149	1182660		
149	100		
177	19.7	15.6	23.4
150	12.1	9.6	14.4

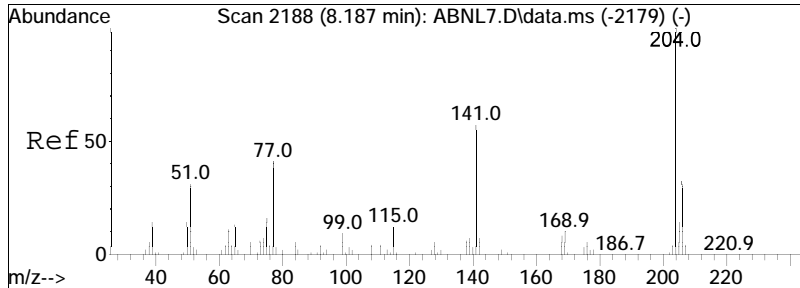




#73
 Fluorene
 Concen: 48.43 ug/ml
 RT: 7.578 min Scan# 1095
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

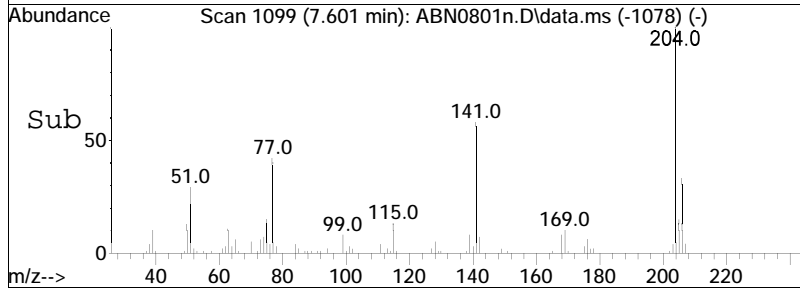
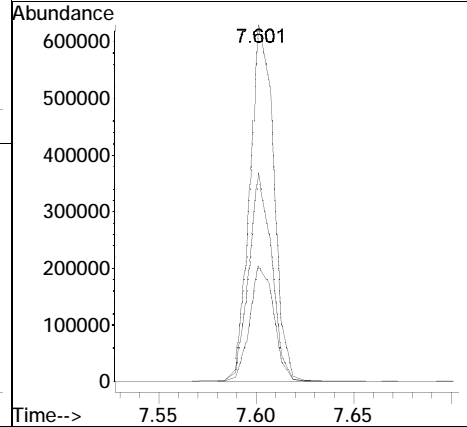
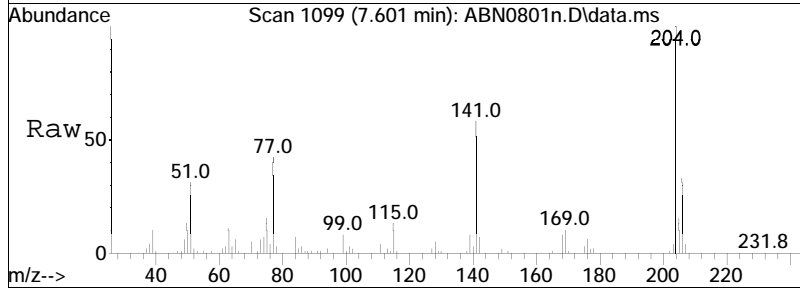
Tgt Ion	Resp	Lower	Upper
166	1058692		
166	100		
165	98.8	80.4	120.6
167	13.8	10.7	16.1

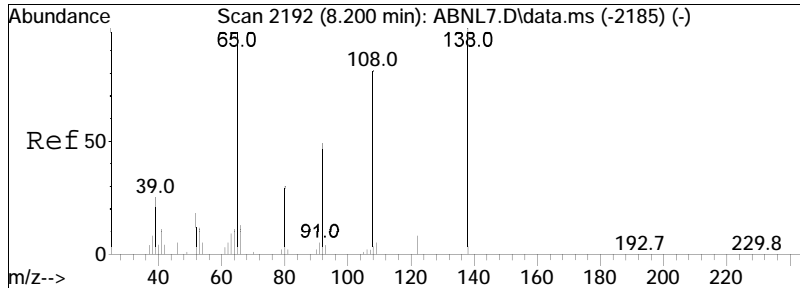




#74
 4-Chlorophenyl phenyl ether
 Concen: 50.51 ug/ml
 RT: 7.601 min Scan# 1099
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

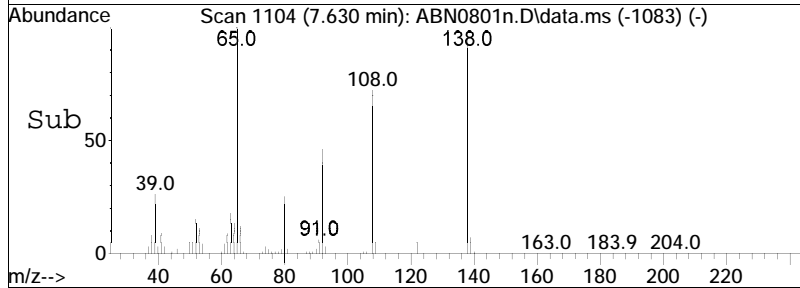
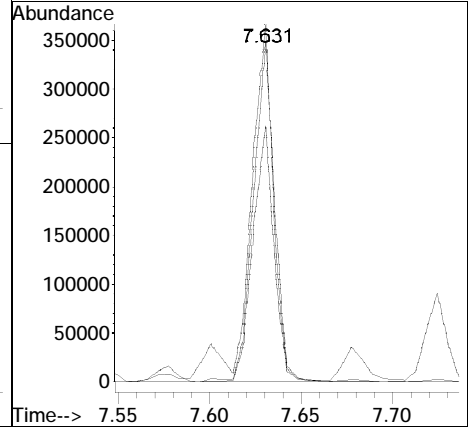
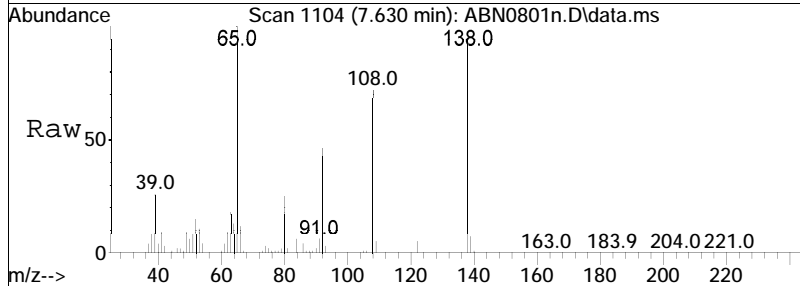
Tgt Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.0	39.0
141	55.8	48.5	72.7

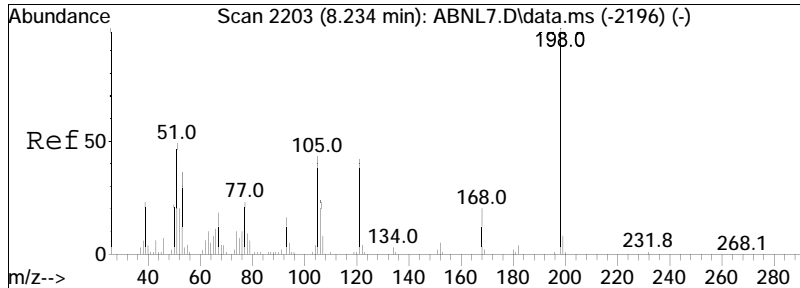




#75
 4-Nitroaniline
 Concen: 51.27 ug/ml
 RT: 7.630 min Scan# 1104
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

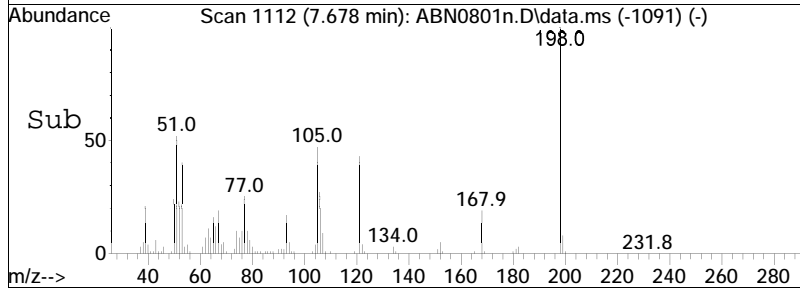
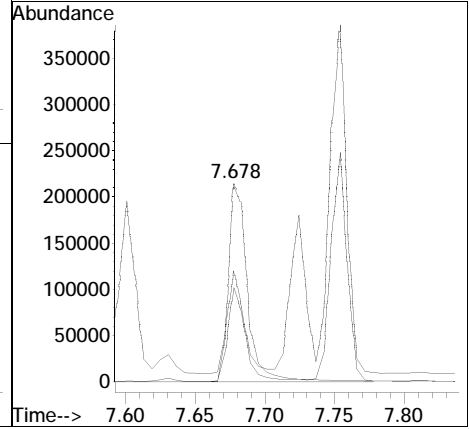
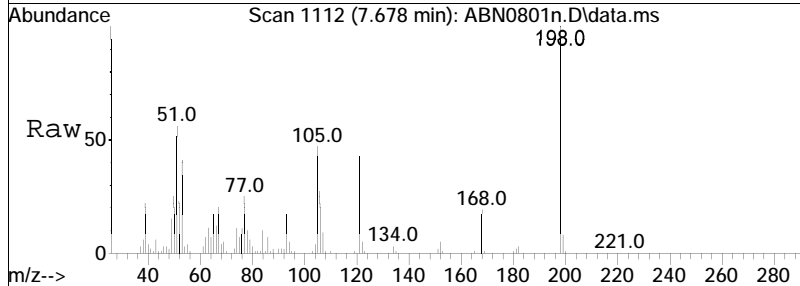
Tgt Ion	Resp	Lower	Upper
138	277299		
108	75.1	54.4	81.6
65	103.0	100.1	150.1

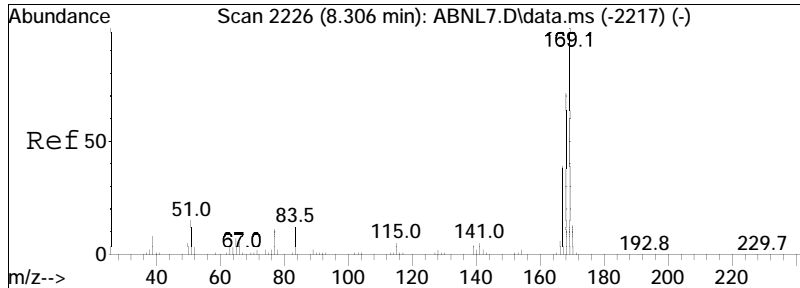




#76
 4,6-Dinitro-o-cresol
 Concen: 60.75 ug/ml
 RT: 7.678 min Scan# 1112
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

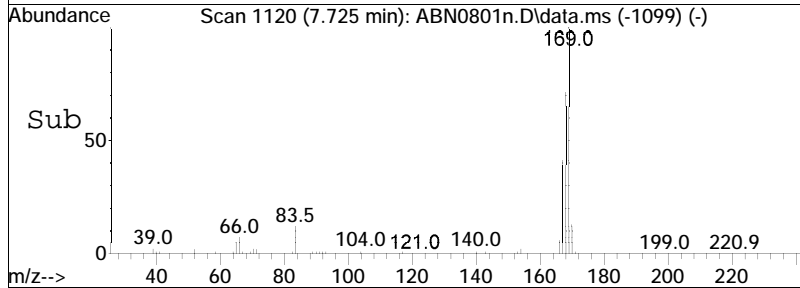
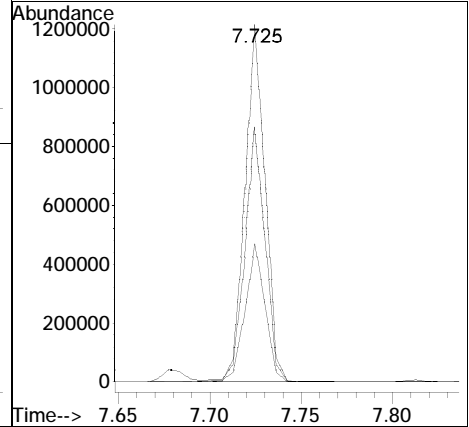
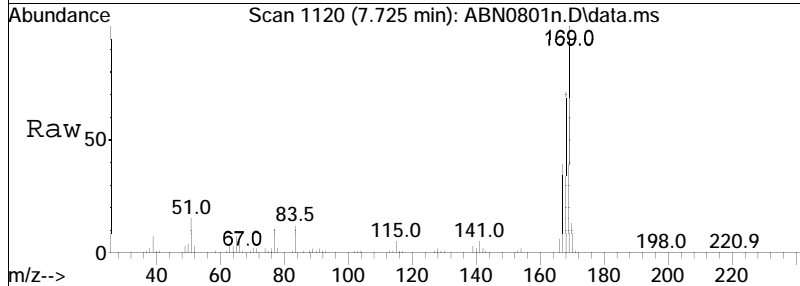
Tgt Ion	Resp	Lower	Upper
198	100		
51	46.7	48.3	72.5#
105	43.5	38.4	57.6

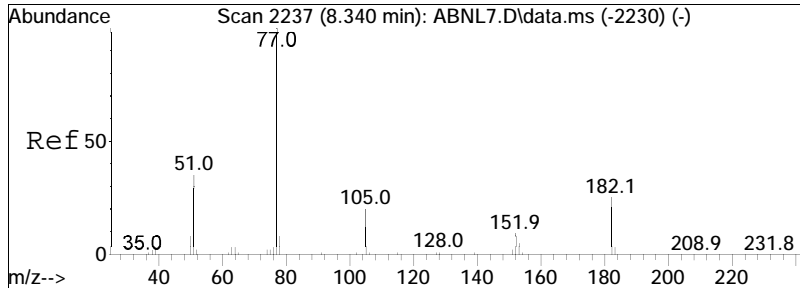




#77
 NDPA/DPA
 Concen: 49.00 ug/ml
 RT: 7.725 min Scan# 1120
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

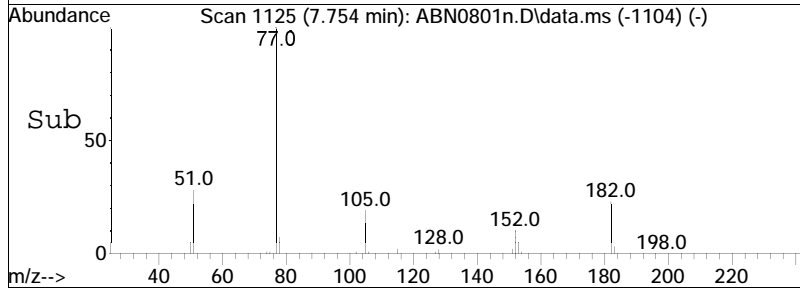
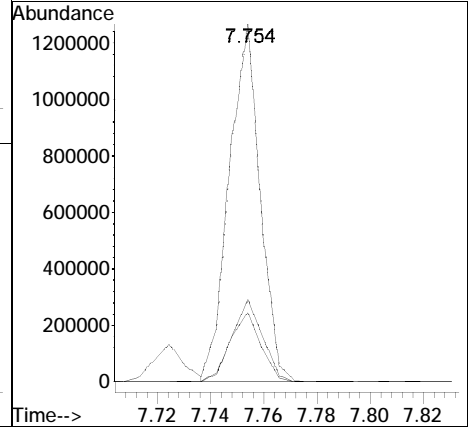
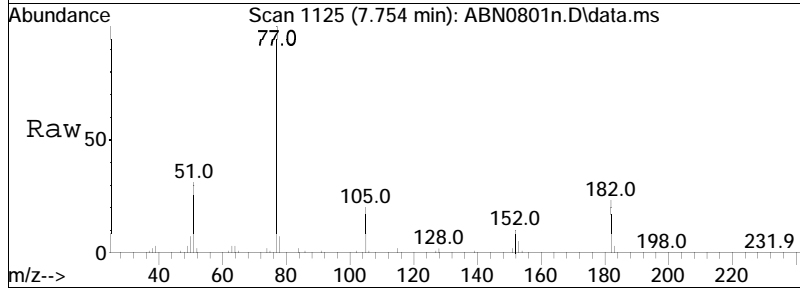
Tgt Ion	Ratio	Lower	Upper
169	100		
168	72.0	57.2	85.8
167	39.2	31.0	46.4

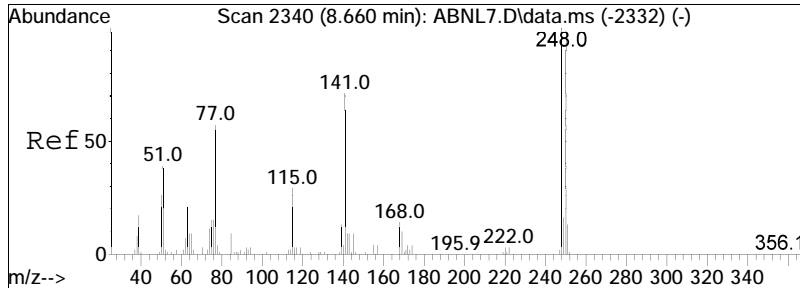




#78
 Azobenzene
 Concen: 44.96 ug/ml
 RT: 7.754 min Scan# 1125
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

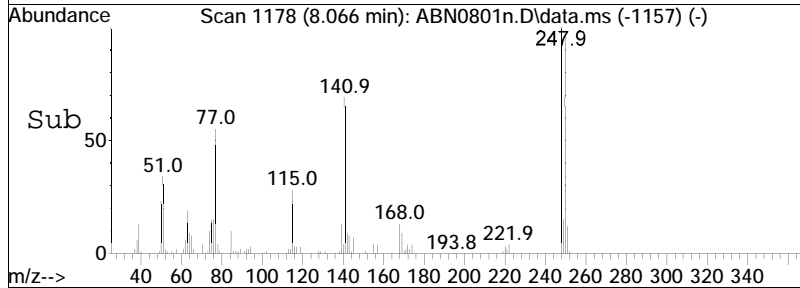
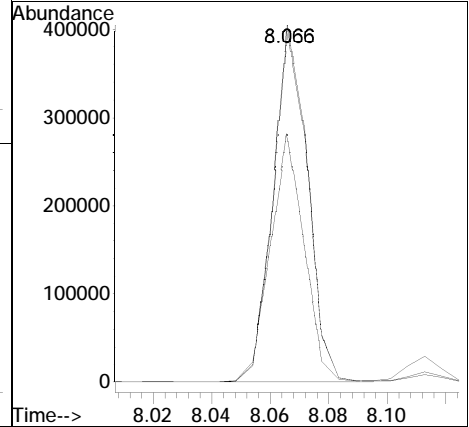
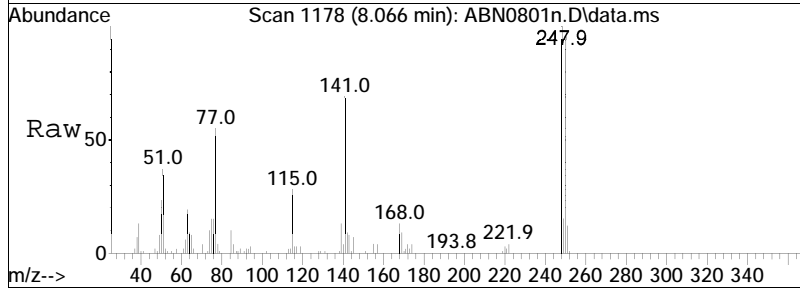
Tgt Ion	Resp	Lower	Upper
77	1014303		
182	23.1	17.2	25.8
105	19.7	17.1	25.7

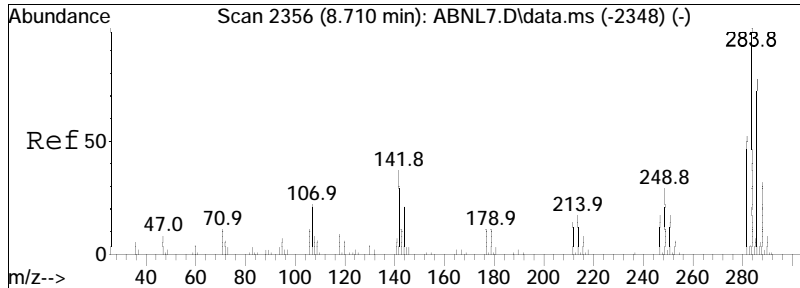




#80
 4-Bromophenyl phenyl ether
 Concen: 50.86 ug/ml
 RT: 8.066 min Scan# 1178
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

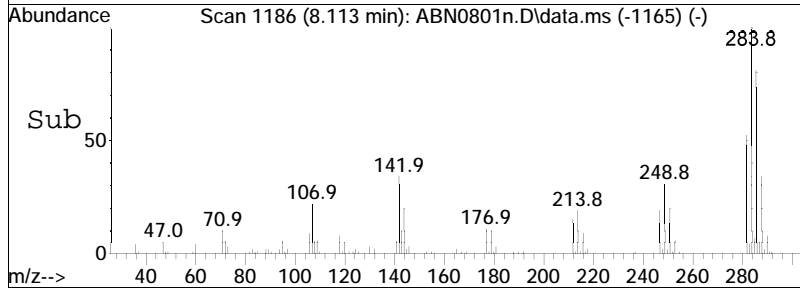
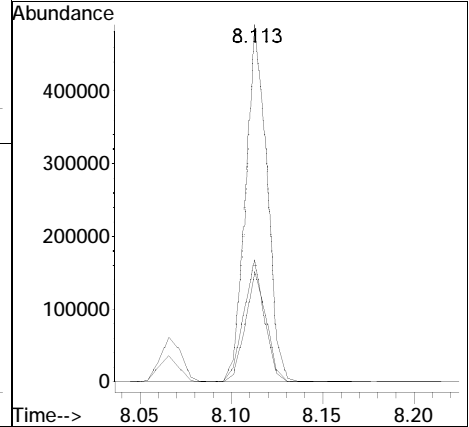
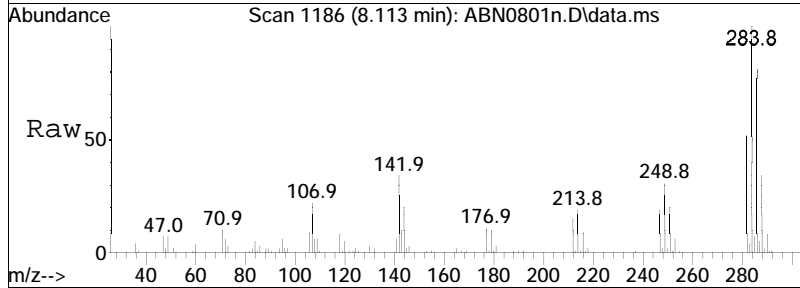
Tgt Ion	Ratio	Lower	Upper
248	100		
141	67.8	59.9	89.9
250	97.6	78.0	117.0

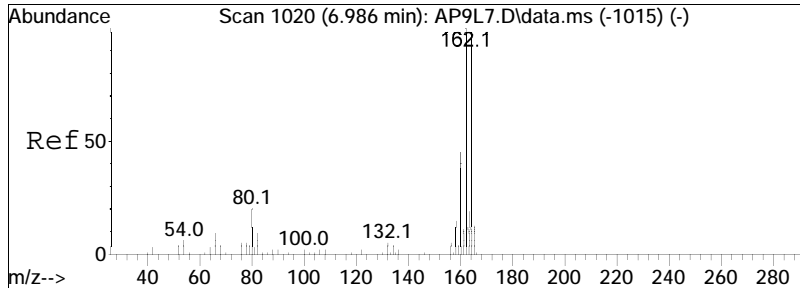




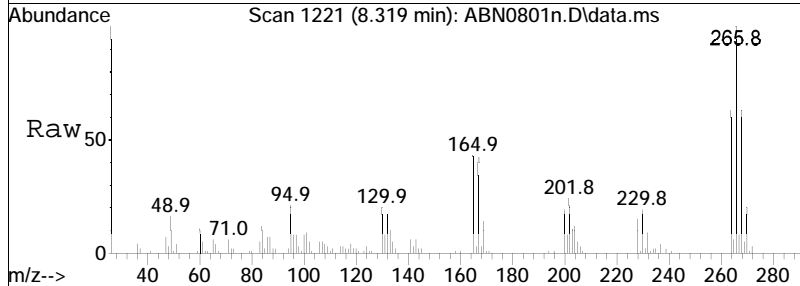
#81
 Hexachlorobenzene
 Concen: 52.56 ug/ml
 RT: 8.113 min Scan# 1186
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

Tgt Ion	Resp	Lower	Upper
284	100		
142	33.7	30.6	46.0
249	30.6	24.2	36.2

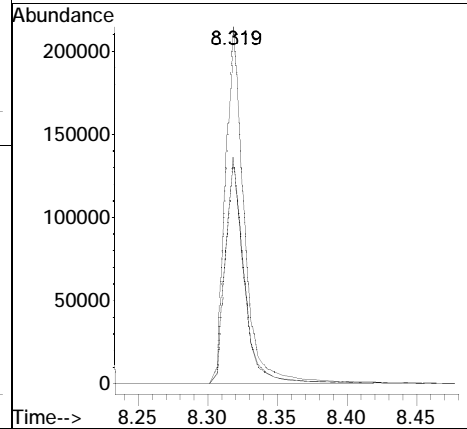
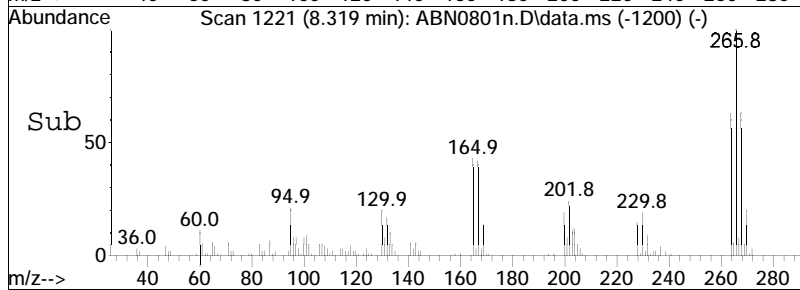


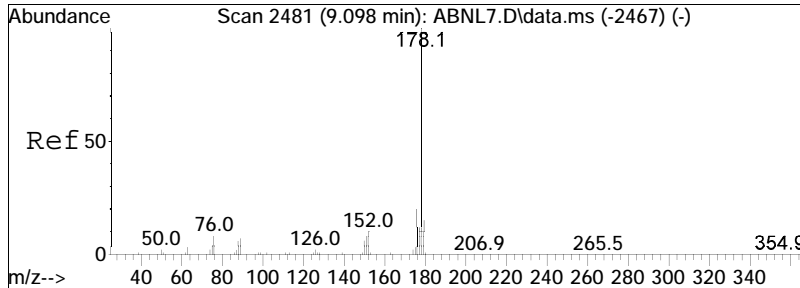


#82
 Pentachlorophenol
 Concen: 55.82 ug/ml
 RT: 8.319 min Scan# 1221
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm



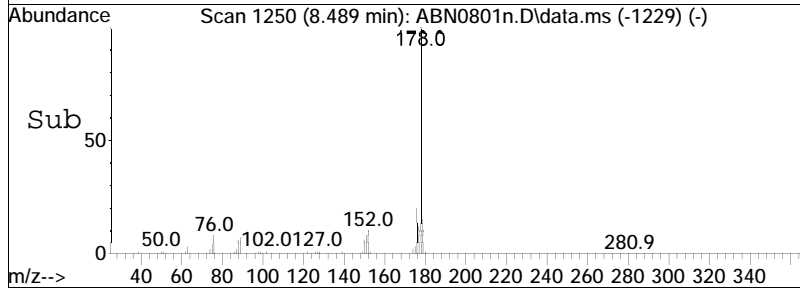
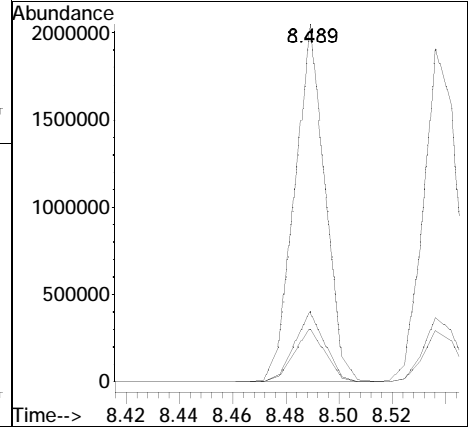
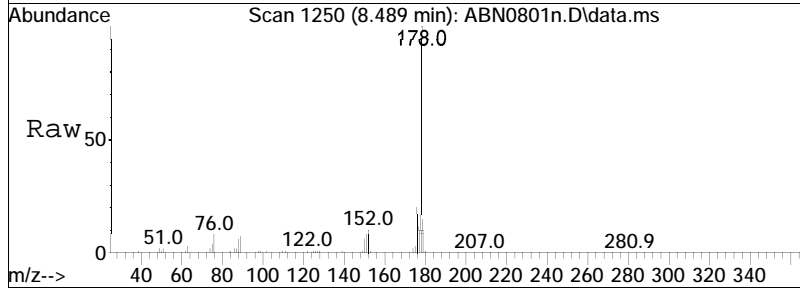
Tgt Ion	Resp	Lower	Upper
266	100		
264	62.7	50.2	75.4
268	64.0	50.7	76.1

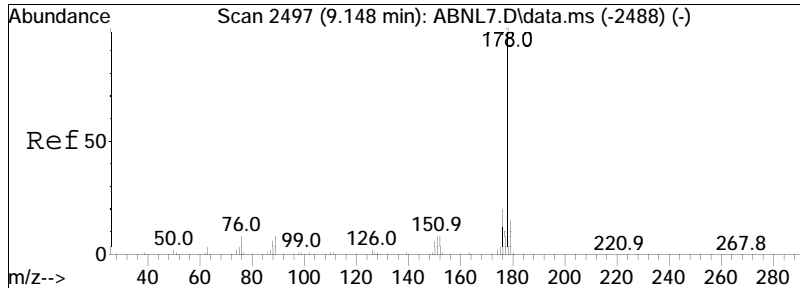




#89
 Phenanthrene
 Concen: 48.06 ug/ml
 RT: 8.489 min Scan# 1250
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

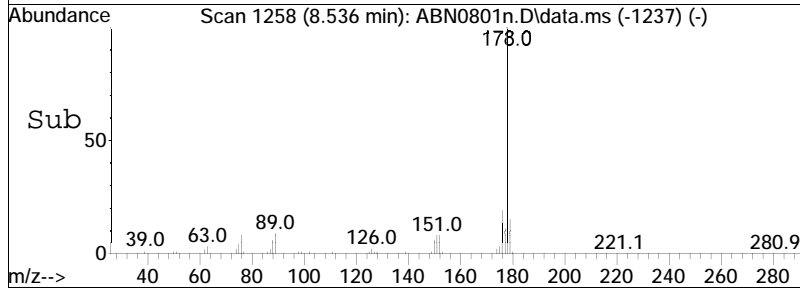
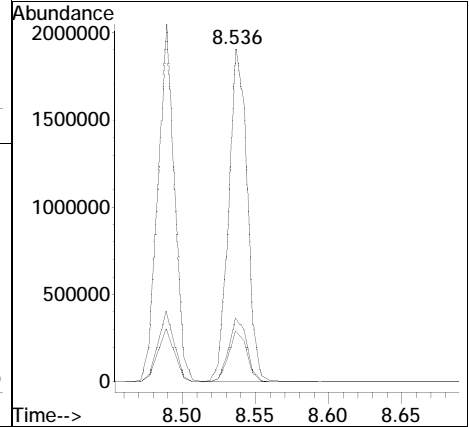
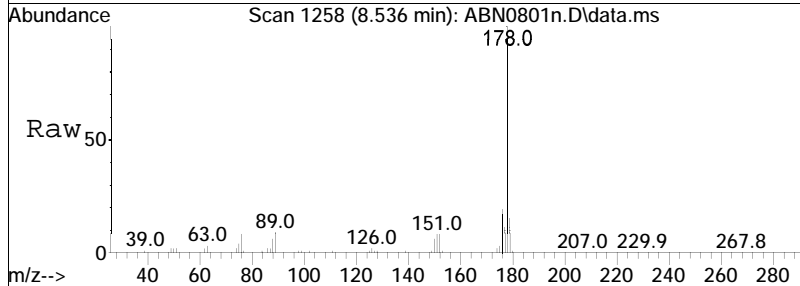
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.1	12.2	18.4
176	19.6	15.5	23.3

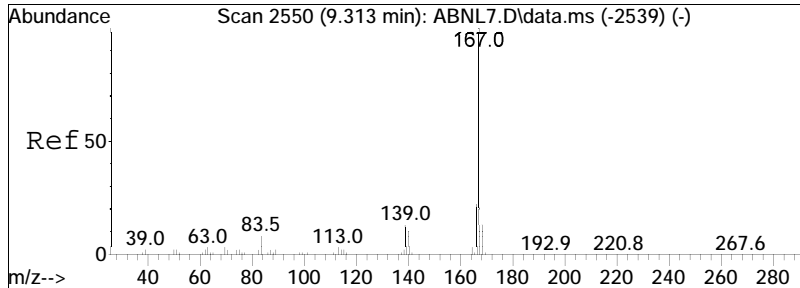




#90
 Anthracene
 Concen: 49.69 ug/ml
 RT: 8.536 min Scan# 1258
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

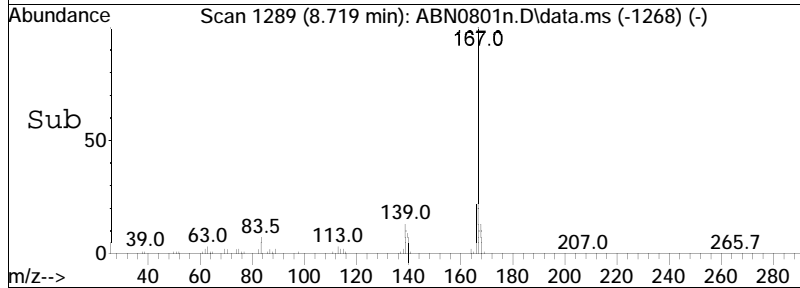
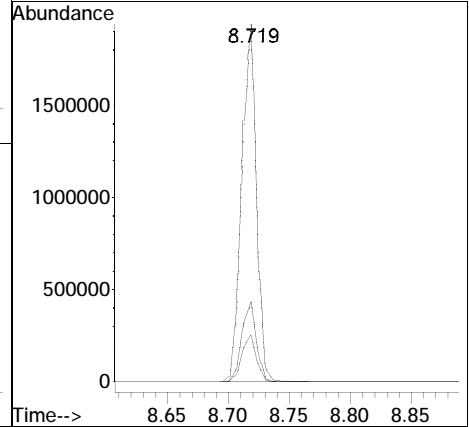
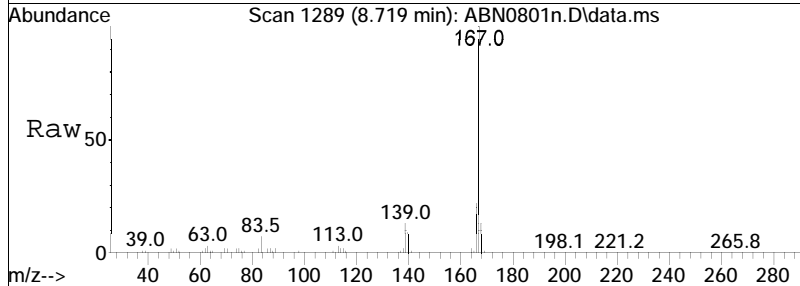
Tgt Ion	Resp	Lower	Upper
178	1673974		
179	15.2	12.3	18.5
176	19.0	15.0	22.6

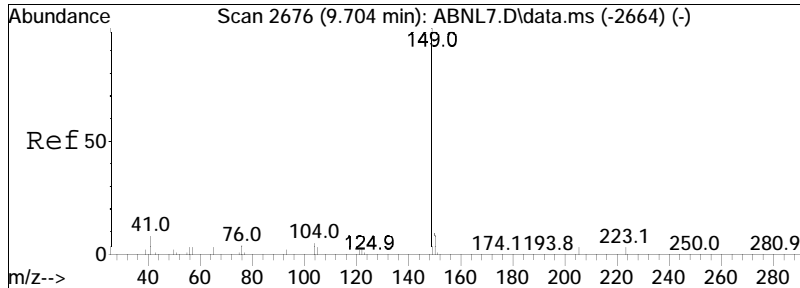




#91
 Carbazole
 Concen: 49.10 ug/ml
 RT: 8.719 min Scan# 1289
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

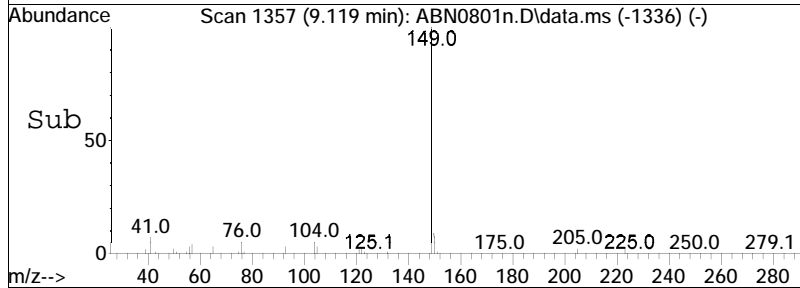
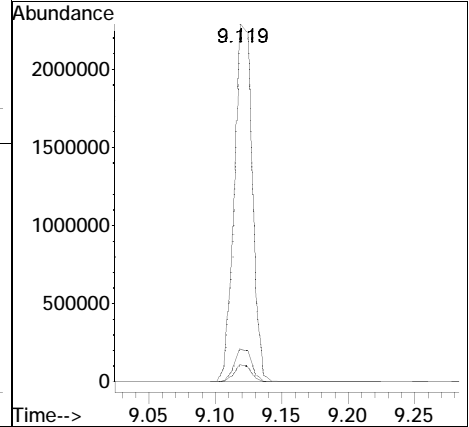
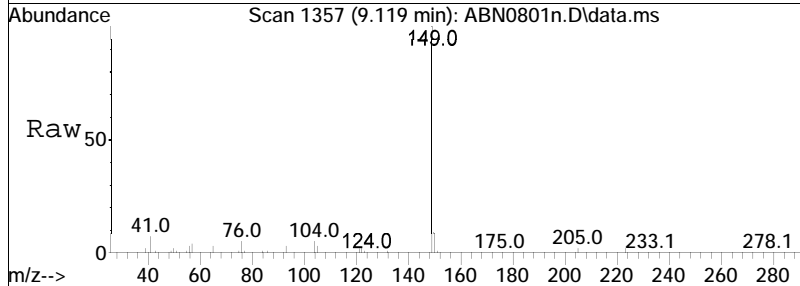
Tgt Ion	Resp	Lower	Upper
167	100		
168	13.2	10.6	16.0
166	22.4	18.0	27.0

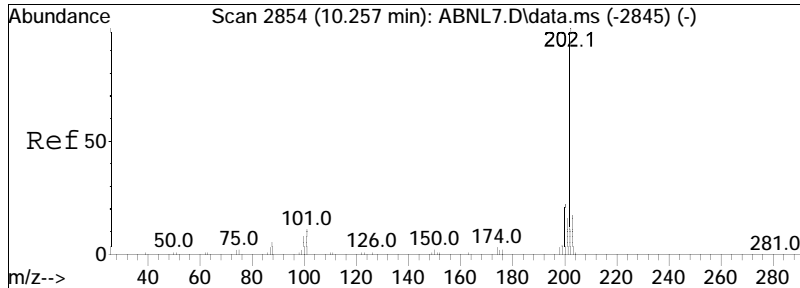




#92
 Di-n-butylphthalate
 Concen: 47.97 ug/ml
 RT: 9.119 min Scan# 1357
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

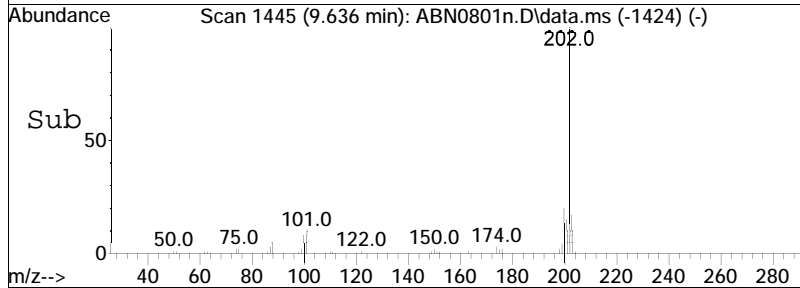
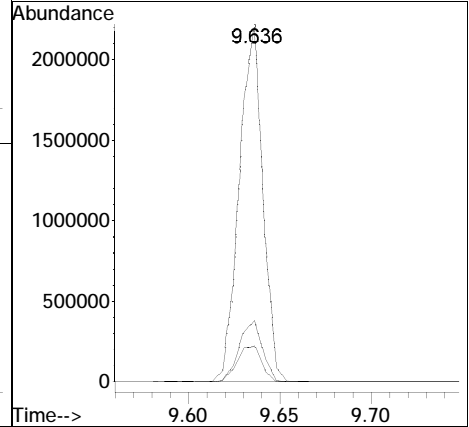
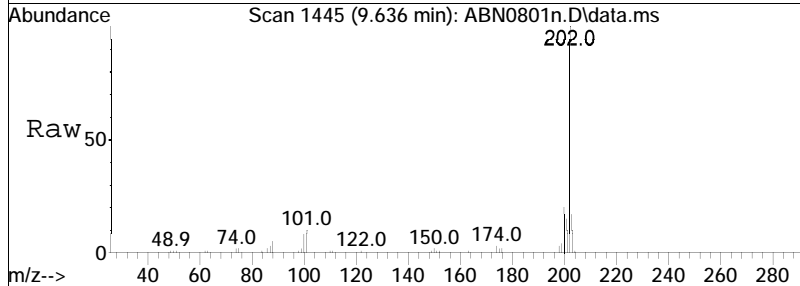
Tgt Ion	Resp	Lower	Upper
149	100		
150	9.0	7.3	10.9
104	4.6	3.6	5.4

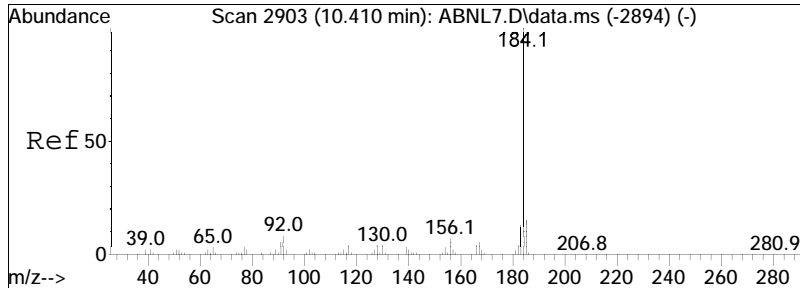




#93
 Fluoranthene
 Concen: 48.88 ug/ml
 RT: 9.636 min Scan# 1445
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

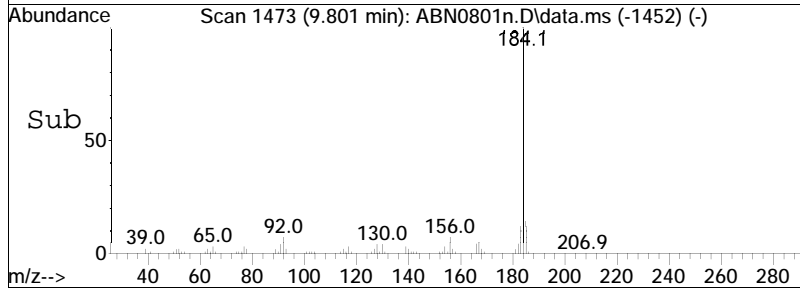
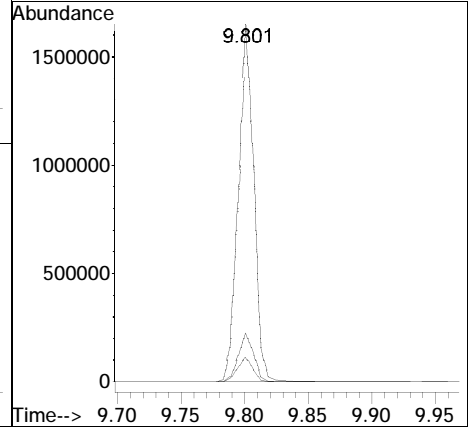
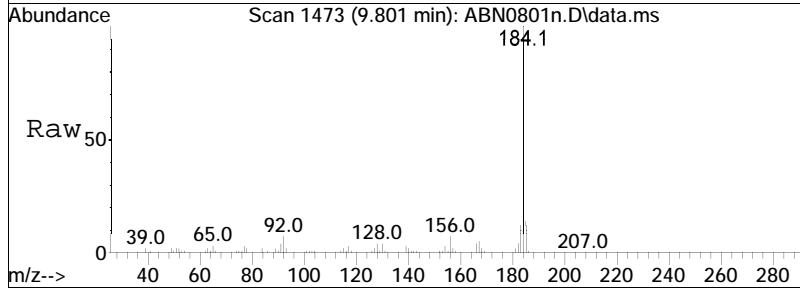
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.7	11.2	16.8#
203	17.3	13.8	20.6

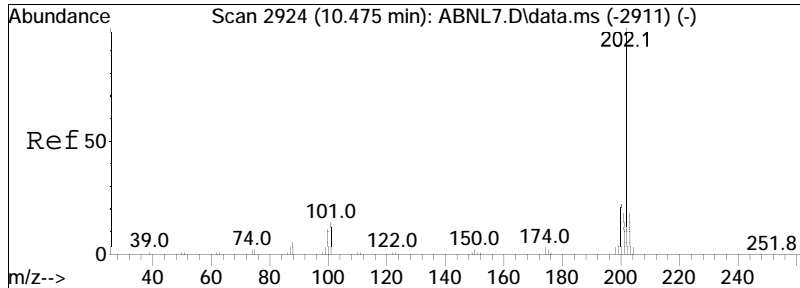




#94
 Benzidine
 Concen: 54.69 ug/ml
 RT: 9.801 min Scan# 1473
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

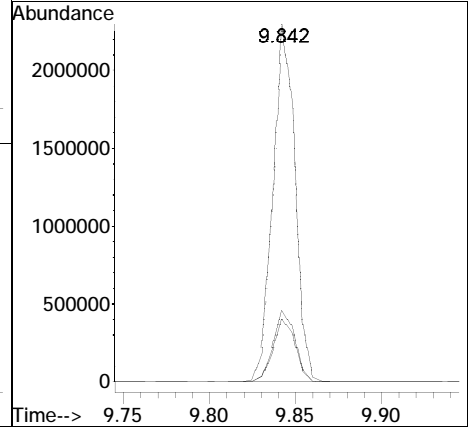
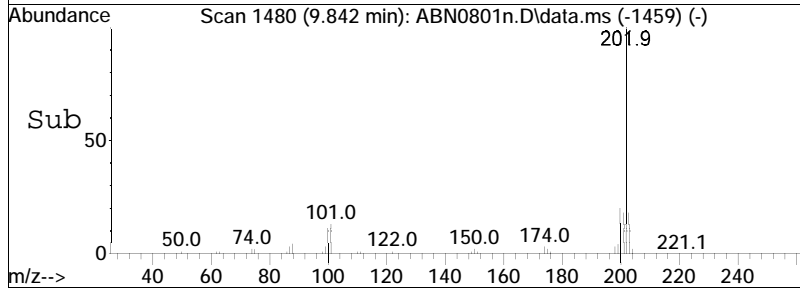
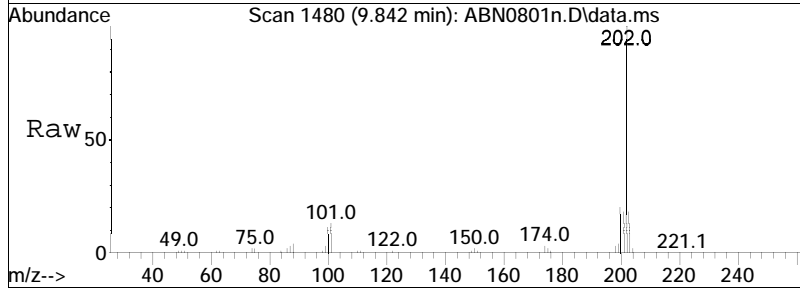
Tgt Ion	Ratio	Lower	Upper
184	100		
92	7.0	7.2	10.8#
185	13.8	11.3	16.9

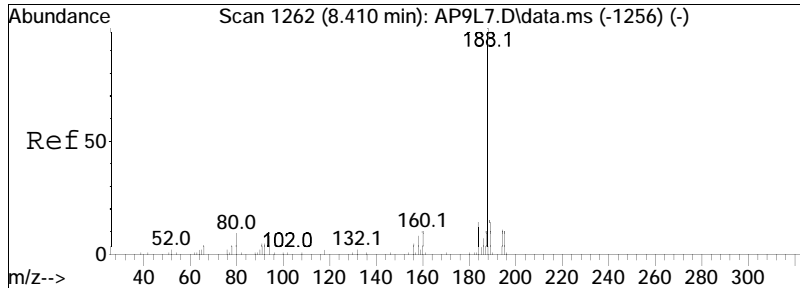




#95
 Pyrene
 Concen: 48.67 ug/ml
 RT: 9.842 min Scan# 1480
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

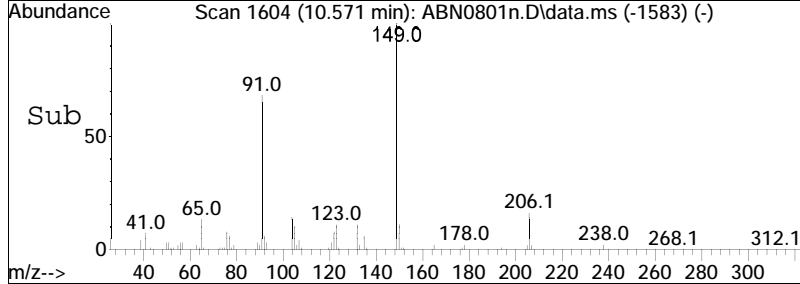
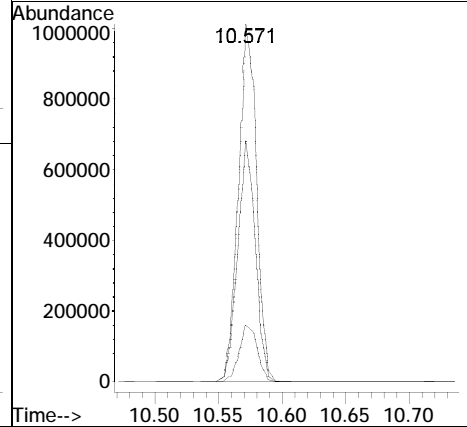
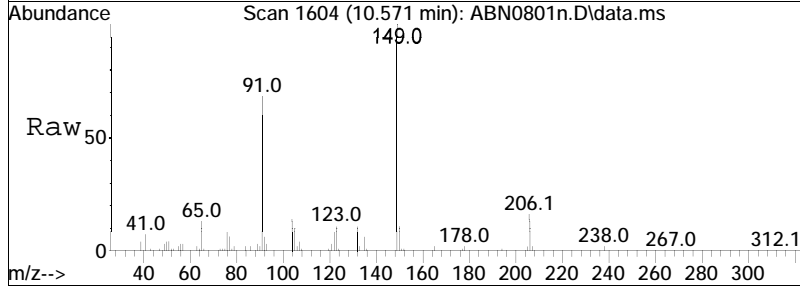
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.1	17.0	25.4
203	17.7	14.2	21.4

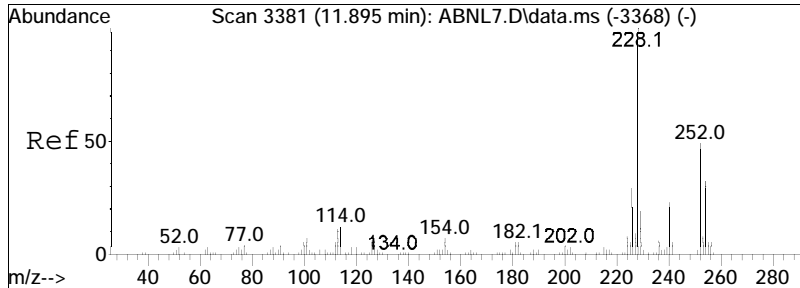




#97
 Butyl benzyl phthalate
 Concen: 48.90 ug/ml
 RT: 10.571 min Scan# 1604
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

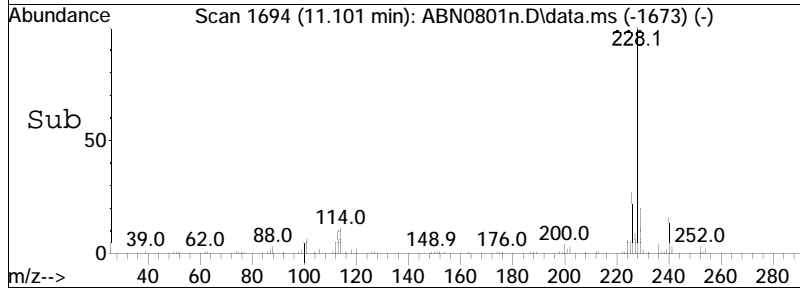
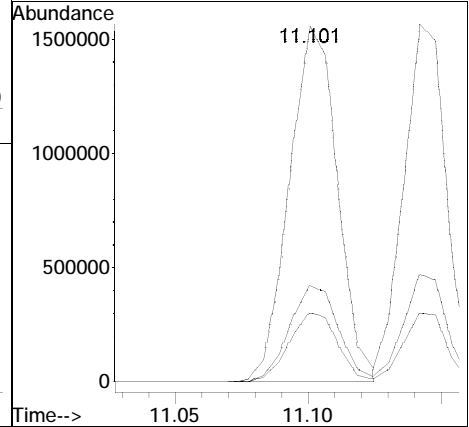
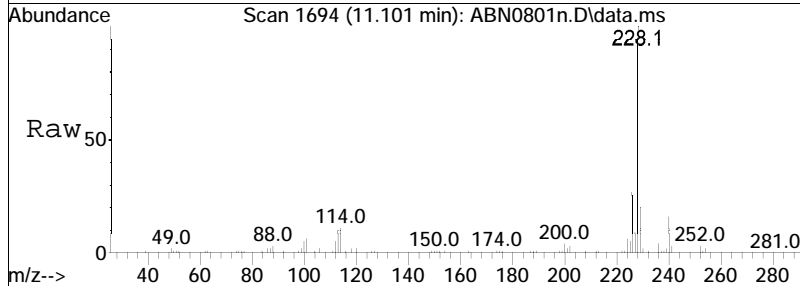
Tgt Ion	Resp	Lower	Upper
149	985954		
149	100		
91	65.7	54.6	81.8
206	16.0	12.5	18.7

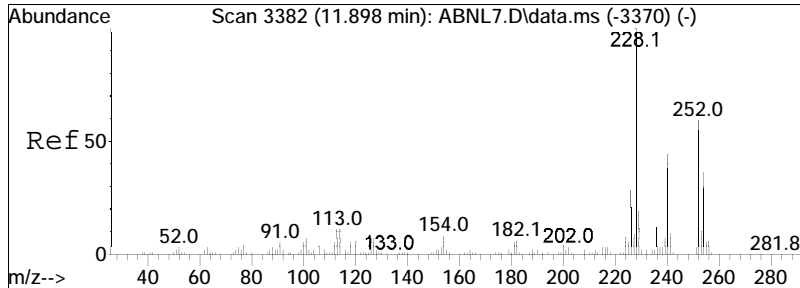




#105
 Benzo(a)anthracene
 Concen: 48.28 ug/ml
 RT: 11.101 min Scan# 1694
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

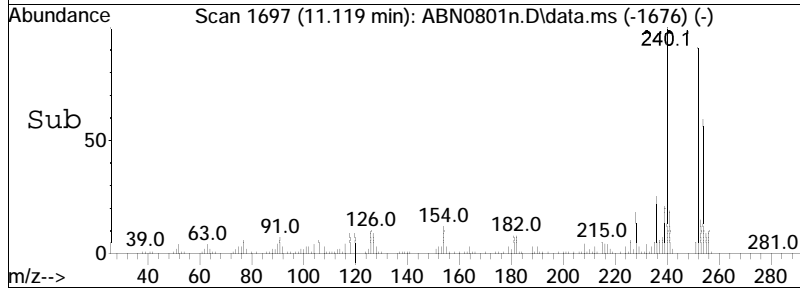
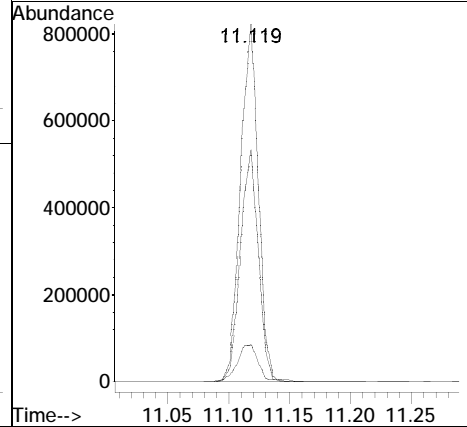
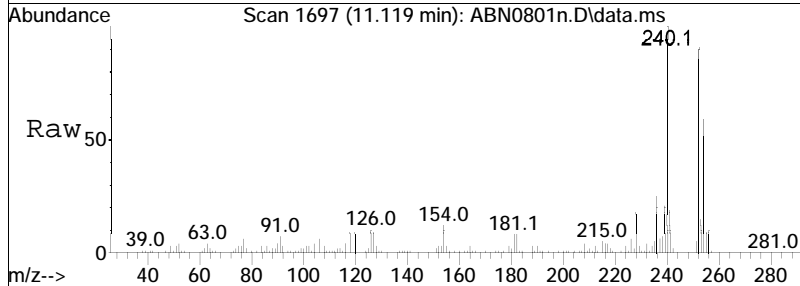
Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.4
229	19.5	15.6	23.4

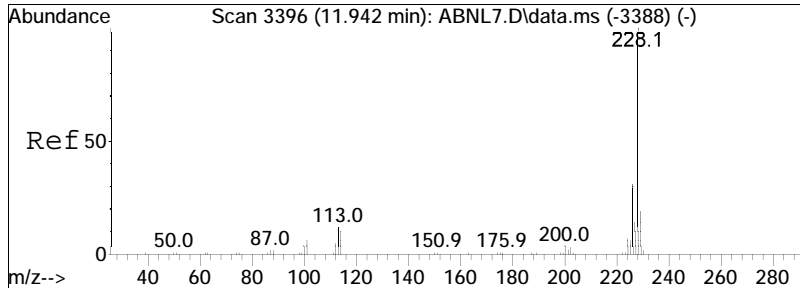




#106
 3,3'-Dichlorobenzidine
 Concen: 53.56 ug/ml
 RT: 11.119 min Scan# 1697
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

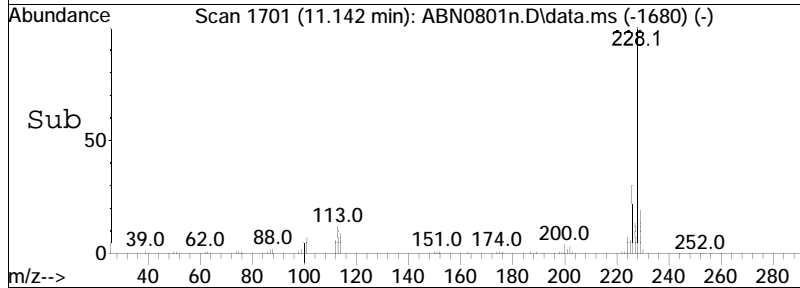
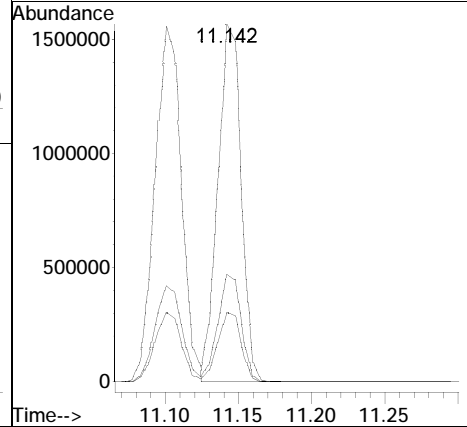
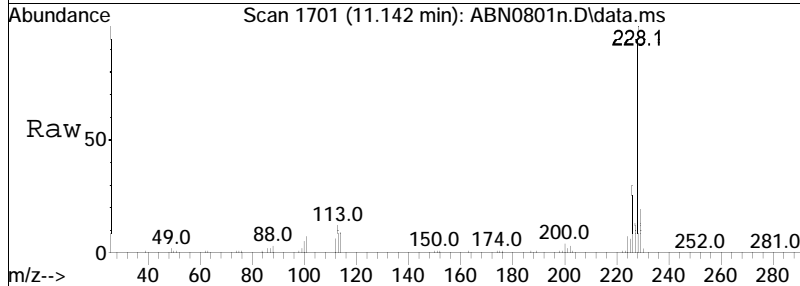
Tgt Ion	Resp	Lower	Upper
252	100		
126	13.0	12.4	18.6
254	65.0	51.8	77.6

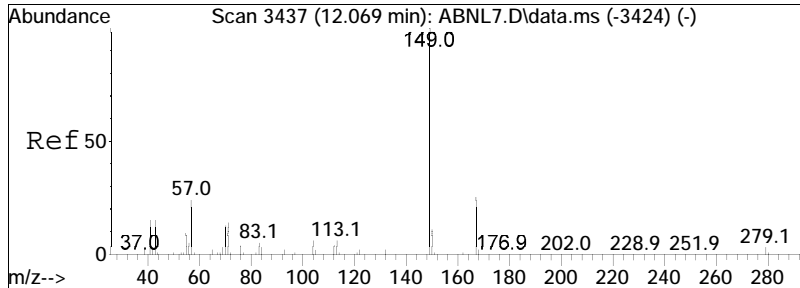




#107
 Chrysene
 Concen: 46.12 ug/ml
 RT: 11.142 min Scan# 1701
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

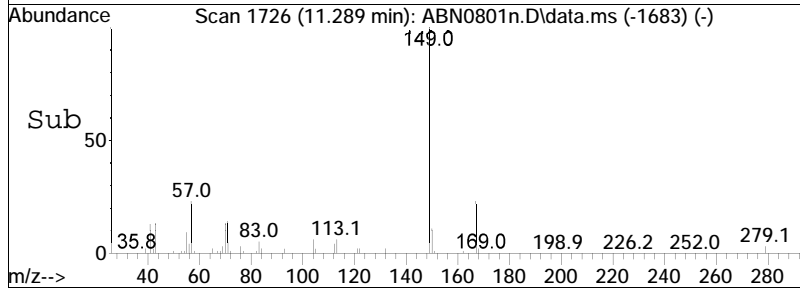
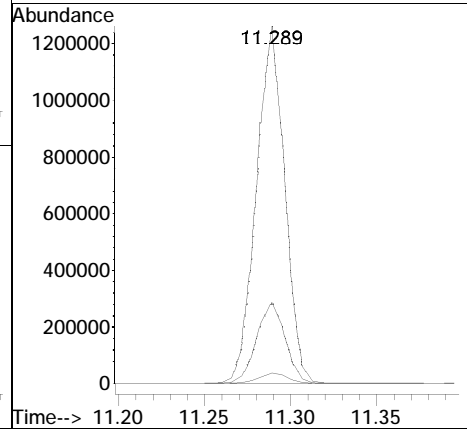
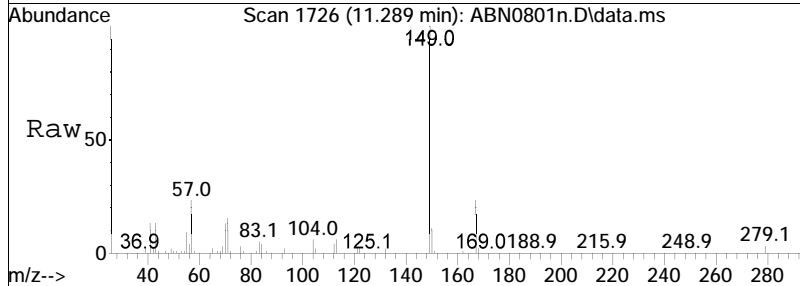
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.3	36.5
229	19.4	15.5	23.3

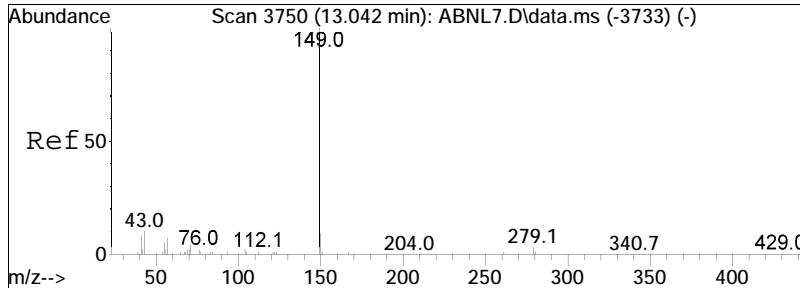




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 46.91 ug/ml
 RT: 11.289 min Scan# 1726
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

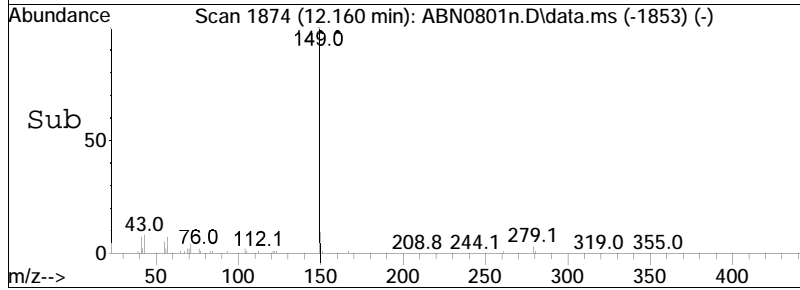
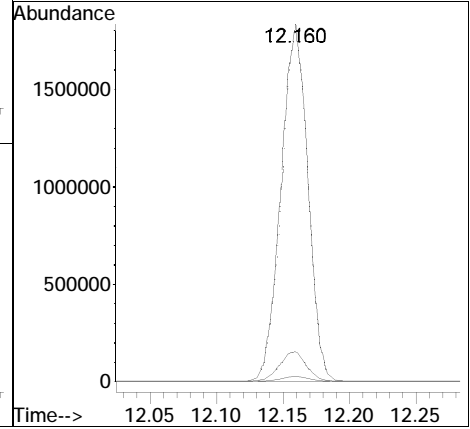
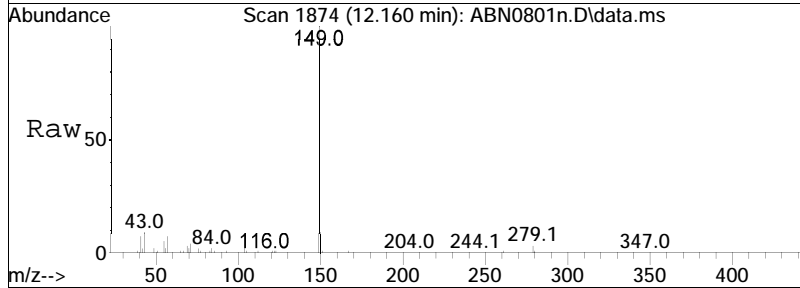
Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.1	19.0	28.6
279	2.8	2.0	3.0

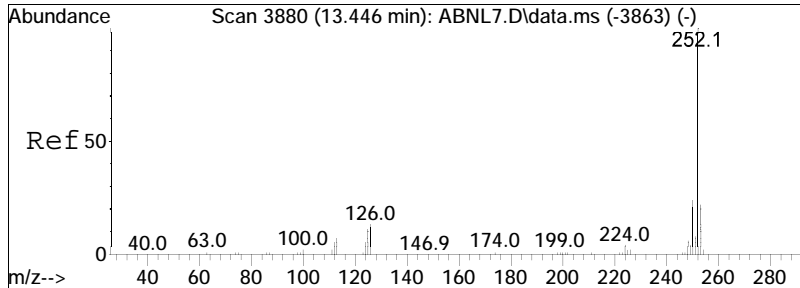




#109
 Di-n-octylphthalate
 Concen: 47.02 ug/ml
 RT: 12.160 min Scan# 1874
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

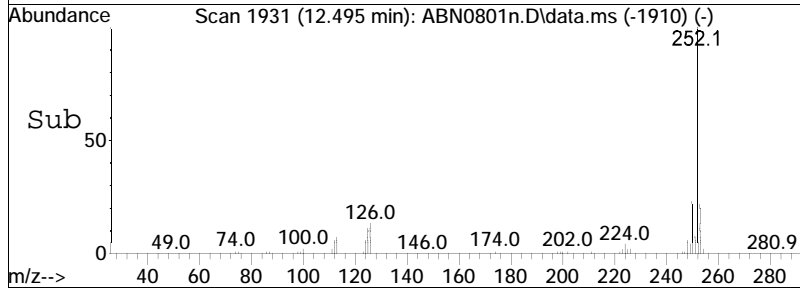
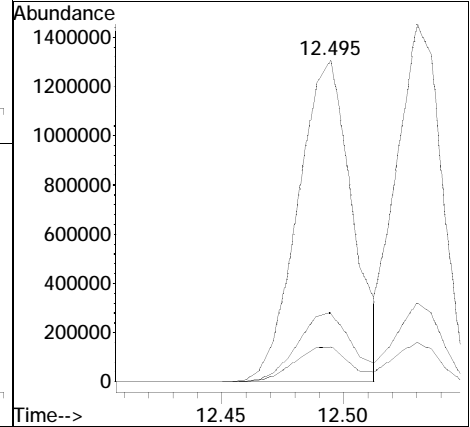
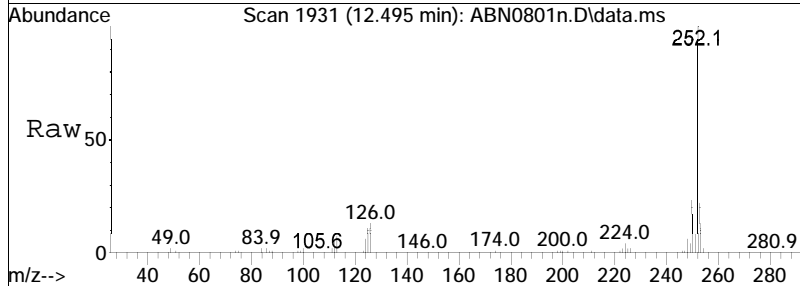
Tgt Ion	Ratio	Lower	Upper
149	100		
43	8.4	9.0	13.4#
167	1.3	1.1	1.7

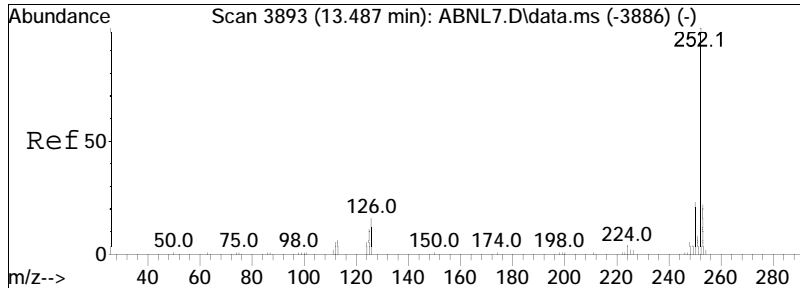




#110
 Benzo(b)fluoranthene
 Concen: 52.73 ug/ml
 RT: 12.495 min Scan# 1931
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

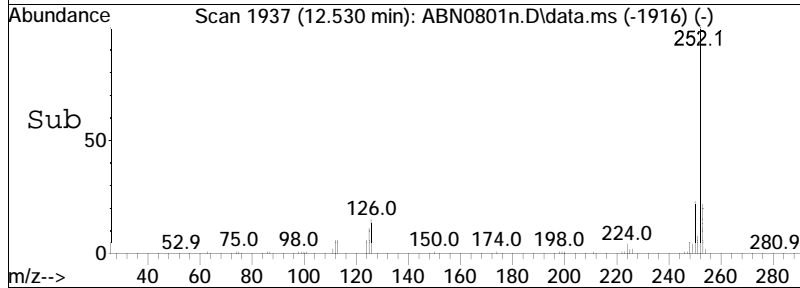
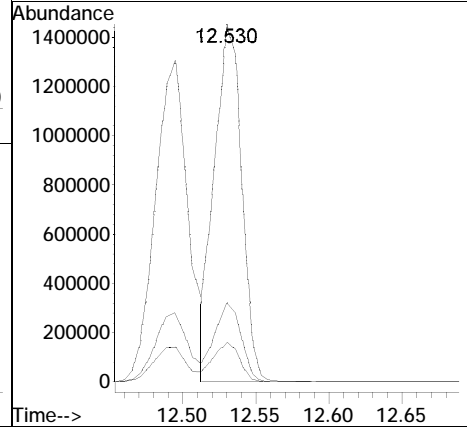
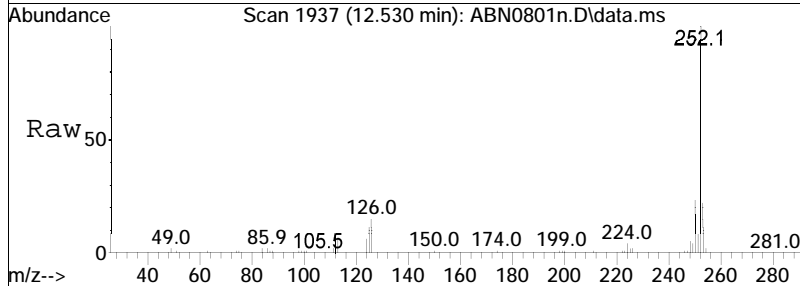
Tgt Ion	Ratio	Lower	Upper
252	100		
125	11.3	11.4	17.0#
253	21.8	17.5	26.3

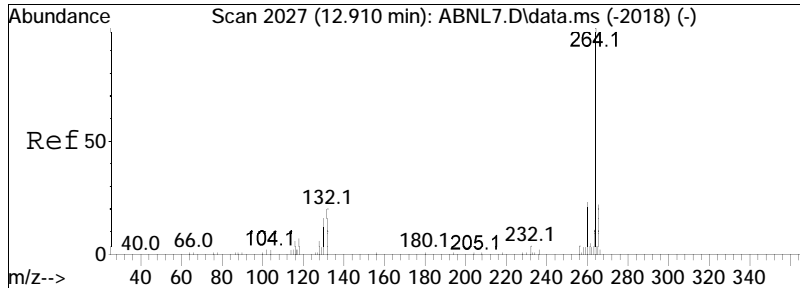




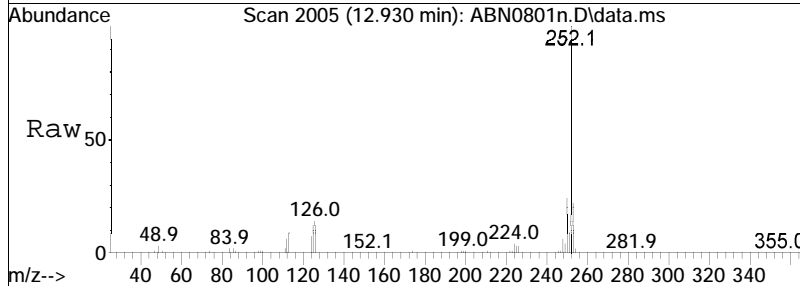
#111
 Benzo(k)fluoranthene
 Concen: 53.07 ug/ml
 RT: 12.530 min Scan# 1937
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

Tgt Ion	Ratio	Lower	Upper
252	100		
125	10.6	11.0	16.6#
253	21.7	17.4	26.0

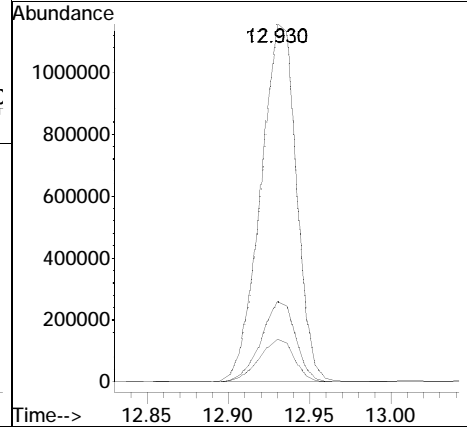
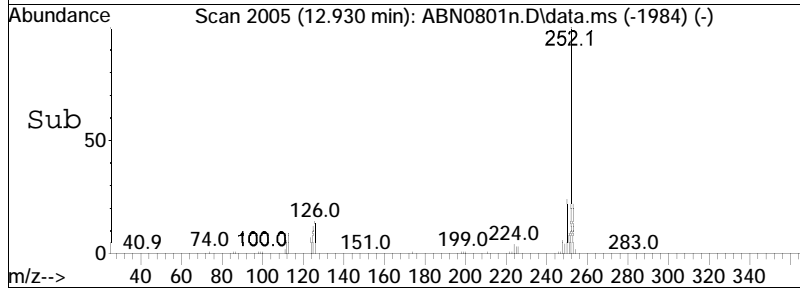


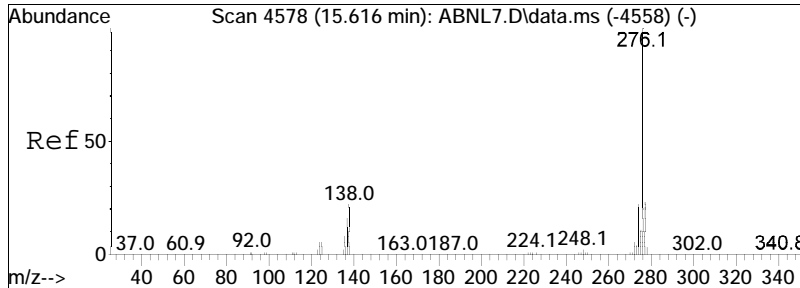


#112
 Benzo(a)pyrene
 Concen: 53.02 ug/ml
 RT: 12.930 min Scan# 2005
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm



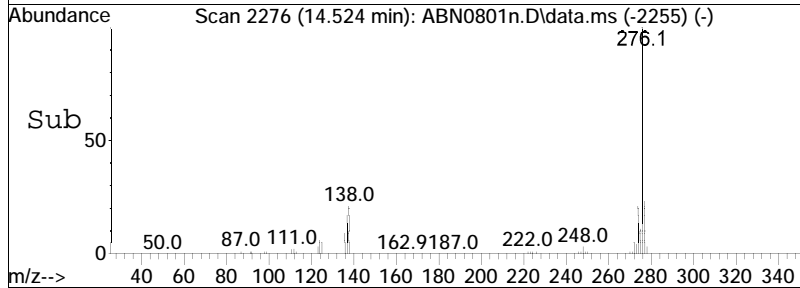
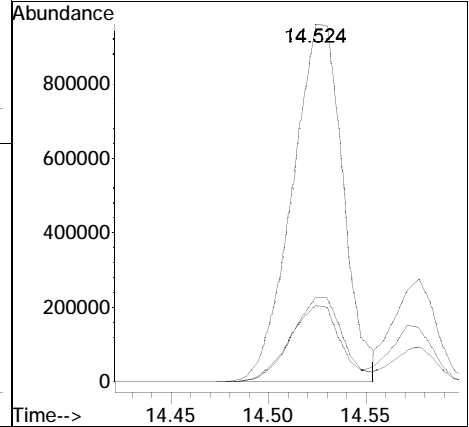
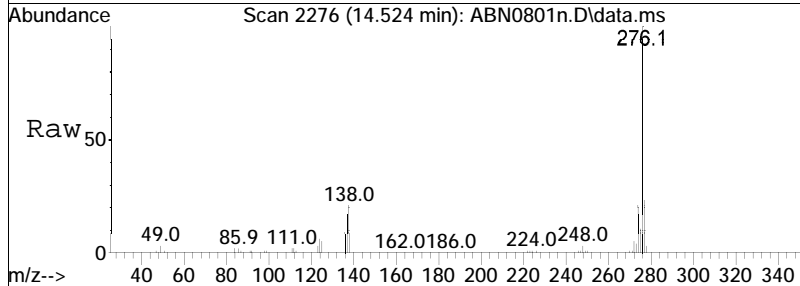
Tgt Ion	Ratio	Lower	Upper
252	100		
125	11.9	12.4	18.6#
253	21.8	17.6	26.4

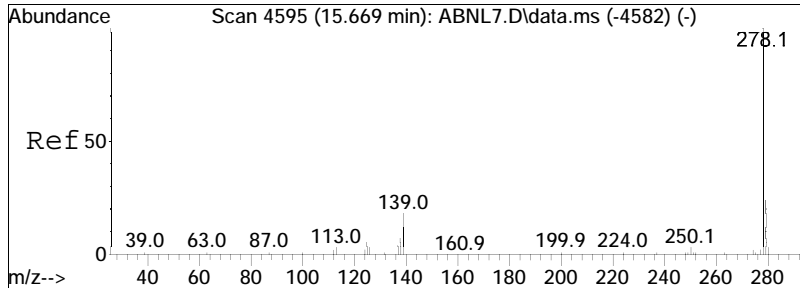




#114
 Indeno(1,2,3-cd)pyrene
 Concen: 52.12 ug/ml
 RT: 14.524 min Scan# 2276
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

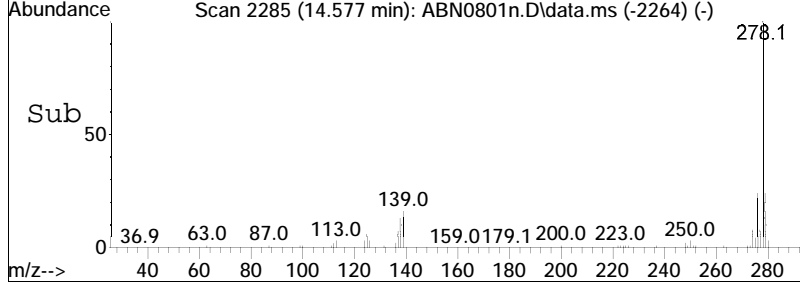
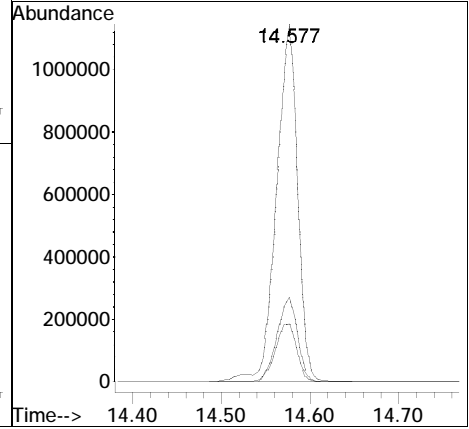
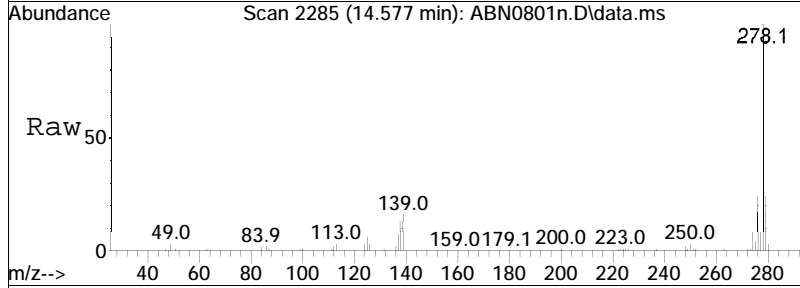
Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.6	21.0	31.6
277	23.9	19.1	28.7

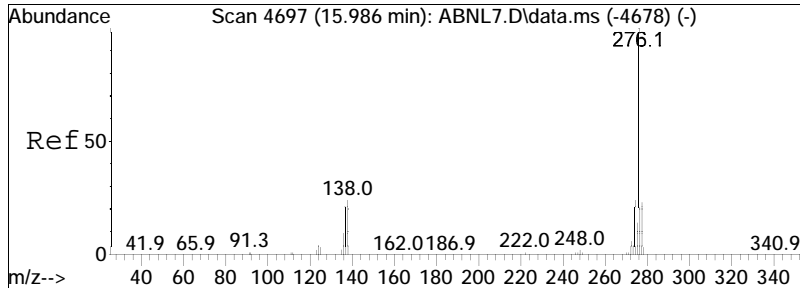




#115
 Dibenzo(a,h)anthracene
 Concen: 52.16 ug/ml
 RT: 14.577 min Scan# 2285
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

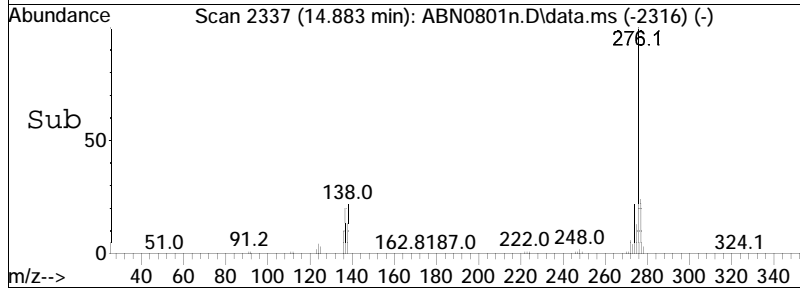
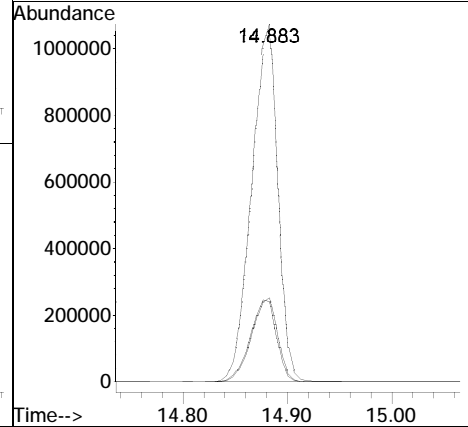
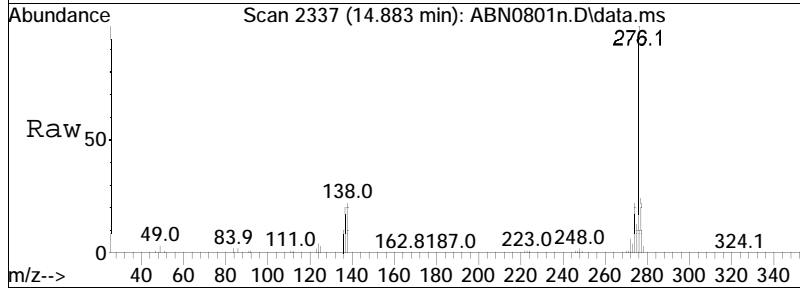
Tgt Ion	Resp	Lower	Upper
278	100		
139	16.6	16.9	25.3#
279	23.4	19.2	28.8





#116
 Benzo(ghi)perylene
 Concen: 50.83 ug/ml
 RT: 14.883 min Scan# 2337
 Delta R.T. 0.000 min
 Lab File: ABN0801n.D
 Acq: 1 Aug 2023 11:57 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	23.4	22.9	34.3
277	23.8	18.9	28.3



Manual Integration Report

Data Path : I:\8270\SV109\230801n\ QMethod : FS230531SV109.m
Data File : ABN0801n.D Operator : SV109:ljpg
Date Inj'd : 8/1/2023 11:57 pm Instrument : SV109
Sample : WG1810592-3,32,,ABN CCV LoQuant Date : 8/2/2023 12:22 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\230801n\
 Data File : AP90801n.D
 Acq On : 2 Aug 2023 12:20 am
 Operator : SV109:ljpg
 Sample : WG1810592-4,32,,AP9 CCV Lot # 10068
 Misc : WG1810592,,ical20078
 ALS Vial : 143 Sample Multiplier: 1

Quant Time: Aug 02 01:16:13 2023
 Quant Method : I:\8270\SV109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 01:13:29 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27 I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	155	0.00
28 T	Benzaldehyde	0.823	0.735	10.7	131	0.00
29 T	Acetophenone	1.793	1.857	-3.6	154	0.00
30 T	m-Toluidine	1.520	1.423	6.4	138	0.00
31 T	2-Chloroaniline	1.632	1.642	-0.6	153	0.00
55 I	IS2_Naphthalene-d8	1.000	1.000	0.0	149	0.00
56 T	a-Terpineol	0.261	0.272	-4.2	152	0.00
57 T	3-Chloroaniline	0.131	0.127	3.1	139	0.00
58 T	2,6-Dichlorophenol	0.269	0.295	-9.7	159	0.00
59 T	1-chloro-2-nitrobenzene	0.142	0.146	-2.8	148	0.00
60 T	Caprolactam	0.149	0.153	-2.7	152	0.00
61 T	1,2,4,5-Tetrachlorobenzene	0.345	0.356	-3.2	153	0.00
62 T	Biphenyl	0.819	0.847	-3.4	153	0.00
83 I	IS2_Acenaphthene-d10	1.000	1.000	0.0	152	0.00
84 T	Dichloran	0.186	0.228	-22.6#	177	0.00
85 T	Pentachloronitrobenzene	0.206	0.215	-4.4	153	0.00
98 I	IS2_Phenanthrene-d10	1.000	1.000	0.0	154	0.00
99 T	Diphenamid	0.512	0.516	-0.8	151	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : AP90801n.D
 Acq On : 2 Aug 2023 12:20 am
 Operator : SV109:ljj
 Sample : WG1810592-4,32,,AP9 CCV Lot # 10068
 Misc : WG1810592,,ical20078
 ALS Vial : 143 Sample Multiplier: 1

Quant Time: Aug 02 01:16:13 2023
 Quant Method : I:\8270\SV109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 01:13:29 2023
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.101	152	292844	40.000	ug/ml	0.00
55) IS2_Naphthalene-d8	5.348	136	1138171	40.000	ug/ml	0.00
83) IS2_Acenaphthene-d10	7.042	164	646970	40.000	ug/ml	0.00
98) IS2_Phenanthrene-d10	8.466	188	1430353	40.000	ug/ml	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	3.660	105	268961	44.624	ug/ml	99
29) Acetophenone	4.519	105	679938	51.787	ug/ml	94
30) m-Toluidine	4.607	106	520850	46.815	ug/ml	99
31) 2-Chloroaniline	4.966	127	601120	50.307	ug/ml	100
56) a-Terpineol	5.419	59	386794	51.992	ug/ml	87
57) 3-Chloroaniline	5.436	65	181277	48.674	ug/ml	98
58) 2,6-Dichlorophenol	5.460	162	419362	54.864	ug/ml	94
59) 1-chloro-2-nitrobenzene	5.713	111	207401	51.255	ug/ml	96
60) Caprolactam	5.778	55	218181	51.521	ug/ml#	81
61) 1,2,4,5-Tetrachloroben...	6.219	216	506097	51.533	ug/ml	99
62) Biphenyl	6.513	154	1204720	51.682	ug/ml	99
84) Dichloran	8.183	206	184146	61.371	ug/ml	84
85) Pentachloronitrobenzene	8.325	237	173627	52.122	ug/ml	93
99) Diphenamid	9.383	167	922523	50.345	ug/ml	92

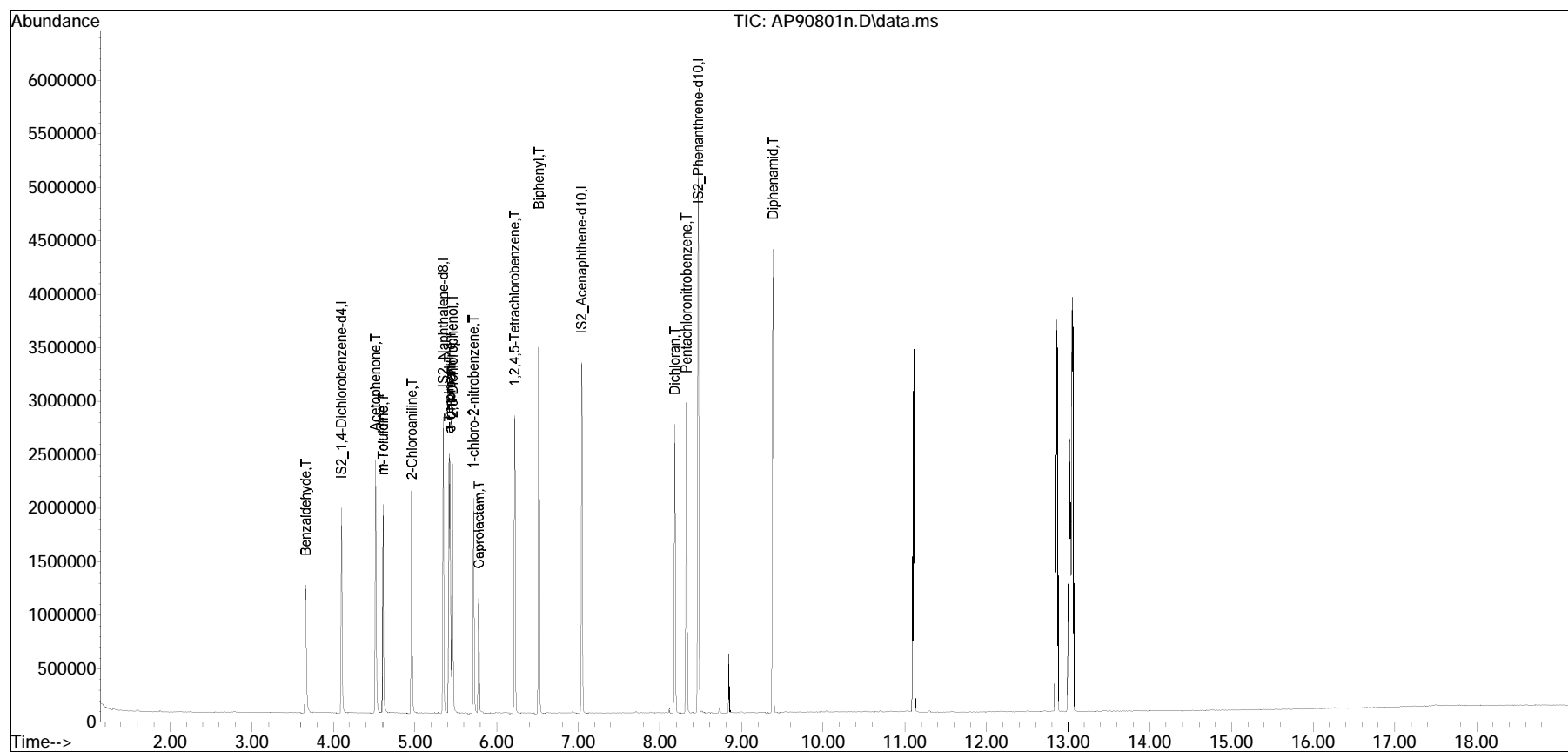
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

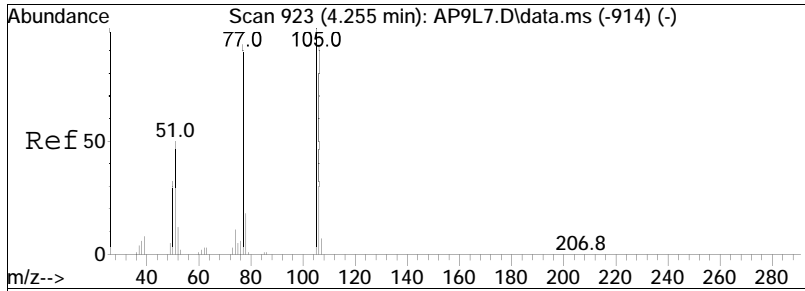
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : AP90801n.D
 Acq On : 2 Aug 2023 12:20 am
 Operator : SV109:ljpg
 Sample : WG1810592-4,32,,AP9 CCV Lot # 10068
 Misc : WG1810592,,ical20078
 ALS Vial : 143 Sample Multiplier: 1

Quant Time: Aug 02 01:16:13 2023
 Quant Method : I:\8270\SV109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 01:13:29 2023
 Response via : Initial Calibration

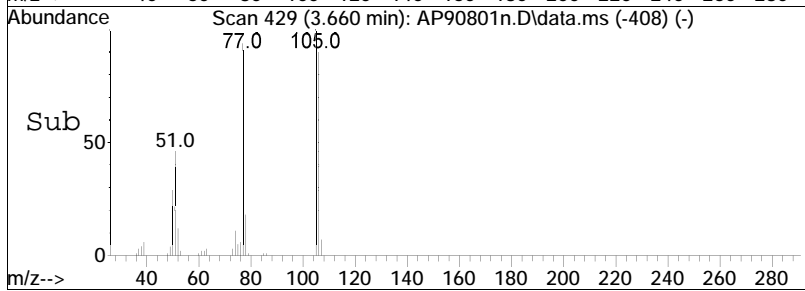
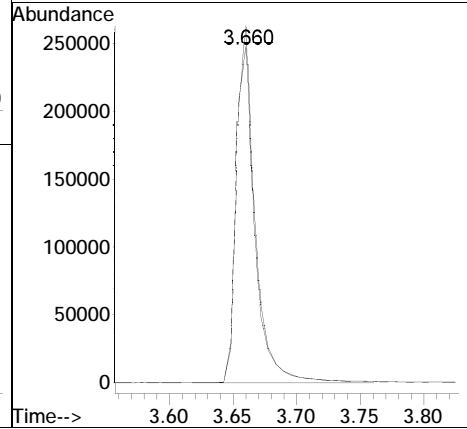
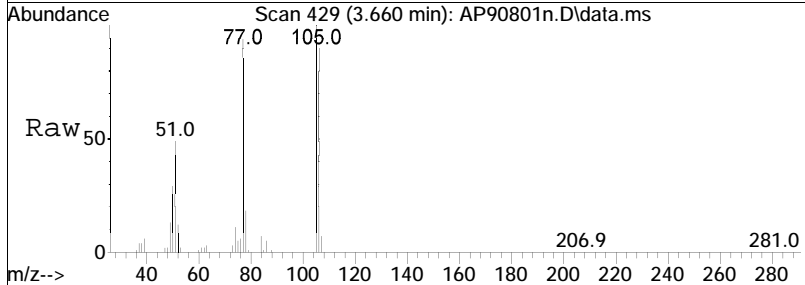
Sub List : AP9ical - AP9 ical sublist

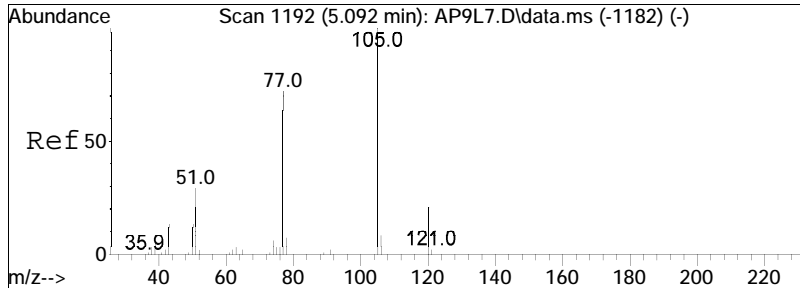




#28
 Benzaldehyde
 Concen: 44.62 ug/ml
 RT: 3.660 min Scan# 429
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 2 Aug 2023 12:20 am

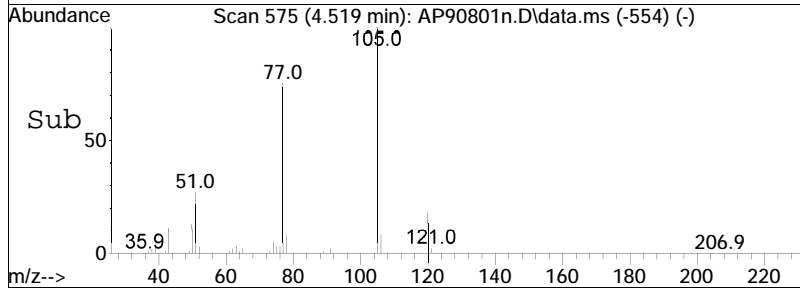
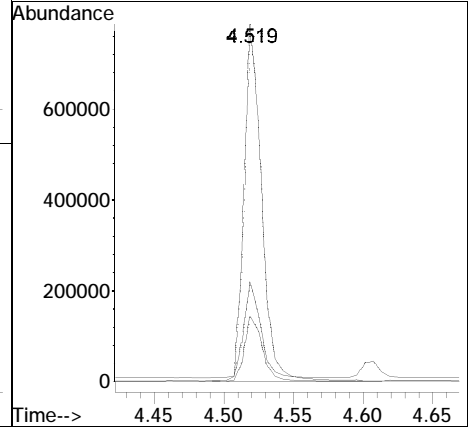
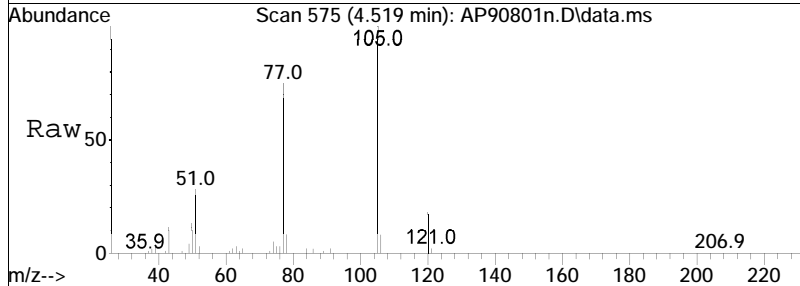
Tgt Ion: 105 Resp: 268961
 Ion Ratio Lower Upper
 105 100
 77 95.5 76.9 115.3

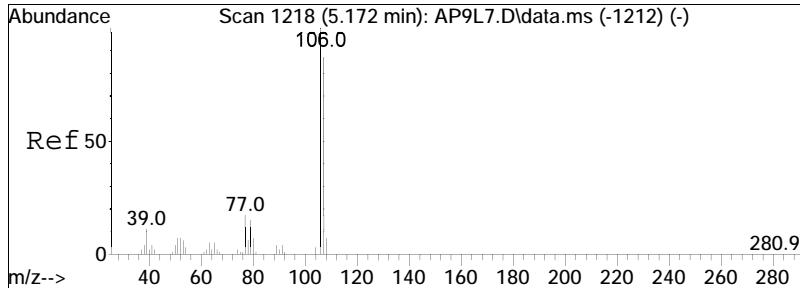




#29
 Acetophenone
 Concen: 51.79 ug/ml
 RT: 4.519 min Scan# 575
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 2 Aug 2023 12:20 am

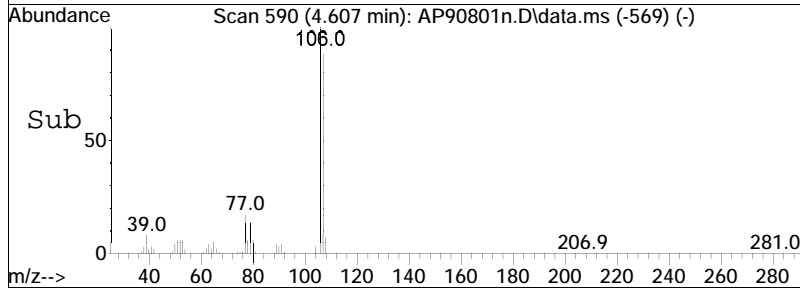
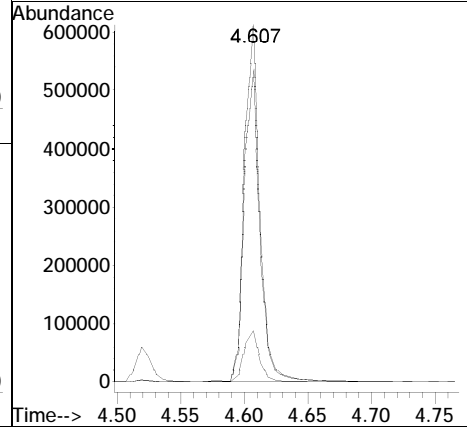
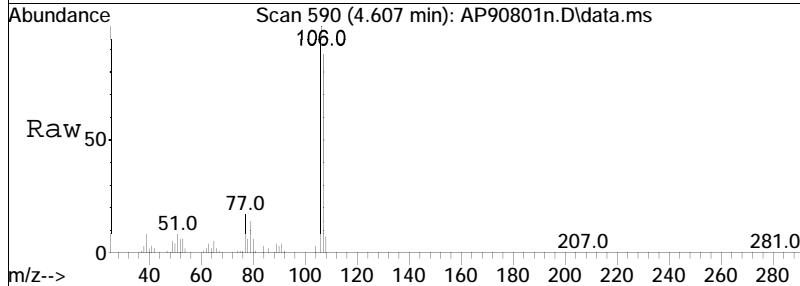
Tgt Ion	Ratio	Lower	Upper
105	100		
120	18.9	15.9	23.9
51	26.5	25.2	37.8

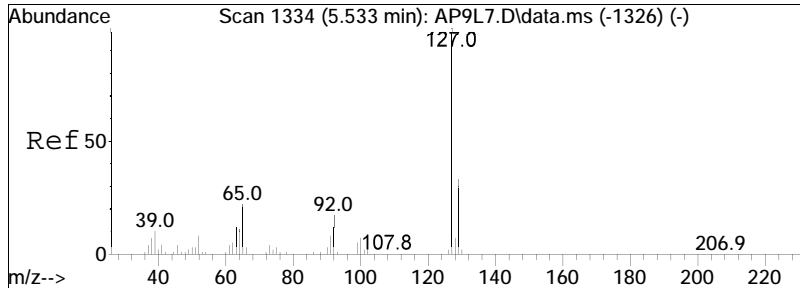




#30
 m-Toluidine
 Concen: 46.82 ug/ml
 RT: 4.607 min Scan# 590
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 2 Aug 2023 12:20 am

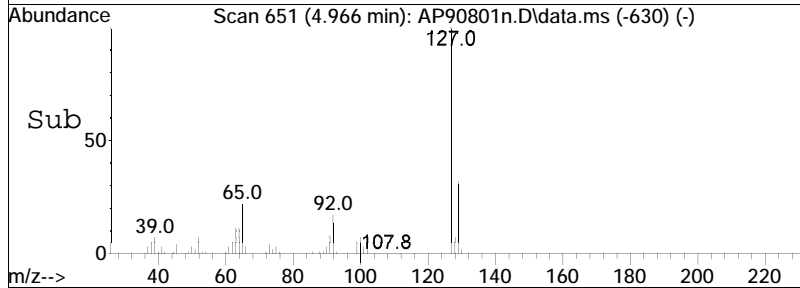
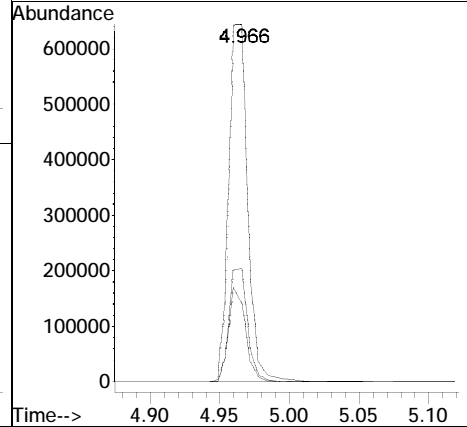
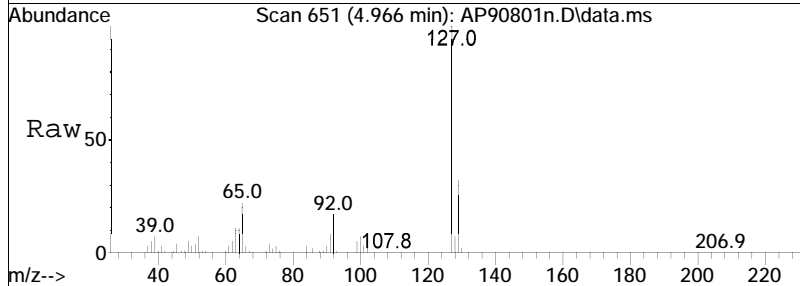
Tgt Ion	Ratio	Lower	Upper
106	100		
107	88.2	71.8	107.6
79	14.8	12.0	18.0

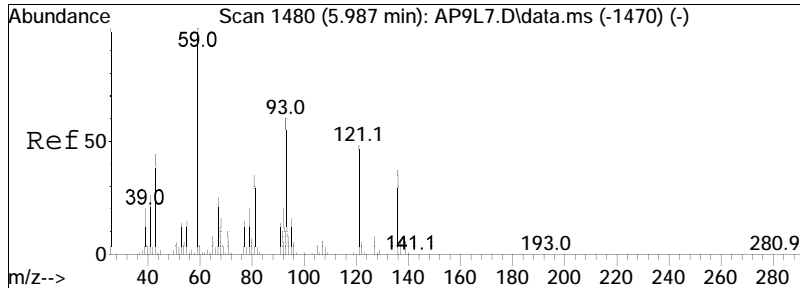




#31
 2-Chloroaniline
 Concen: 50.31 ug/ml
 RT: 4.966 min Scan# 651
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 2 Aug 2023 12:20 am

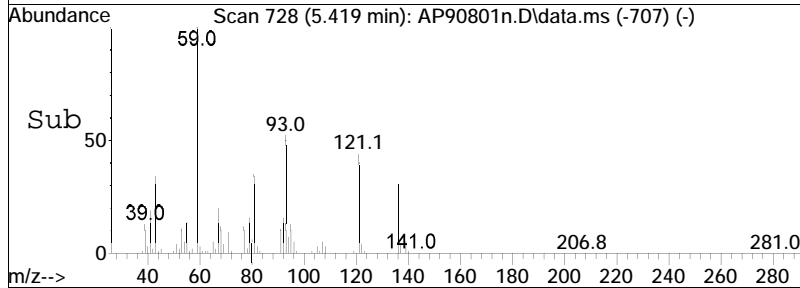
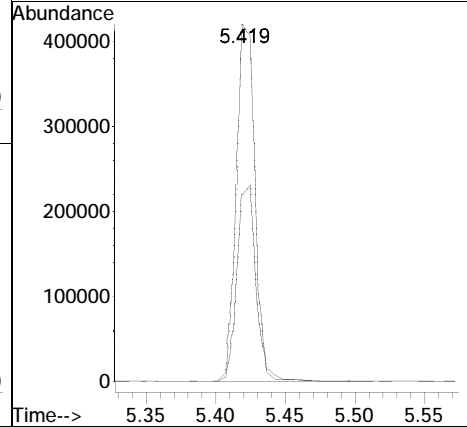
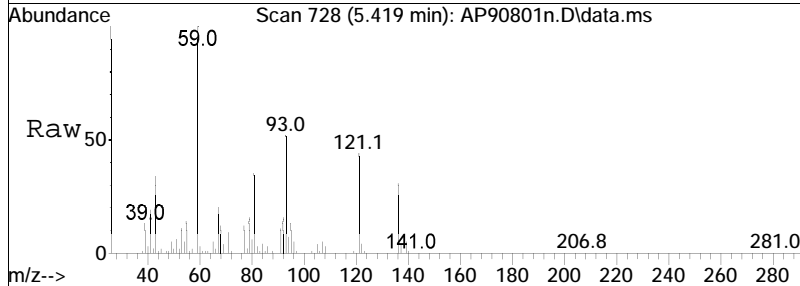
Tgt Ion	Resp	Lower	Upper
127	100		
129	31.6	25.4	38.0
65	24.4	19.4	29.2

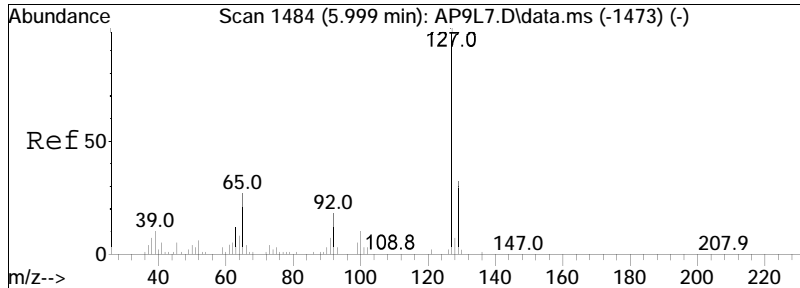




#56
 a-Terpineol
 Concen: 51.99 ug/ml
 RT: 5.419 min Scan# 728
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 2 Aug 2023 12:20 am

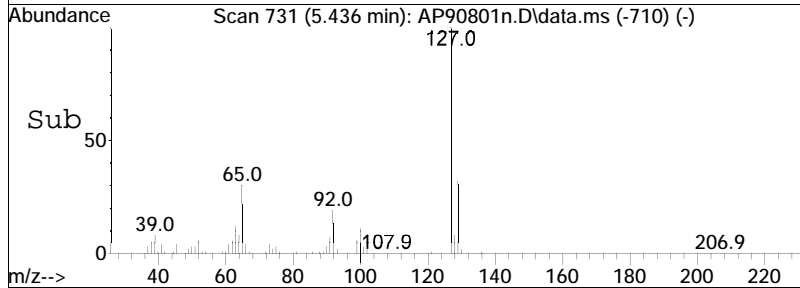
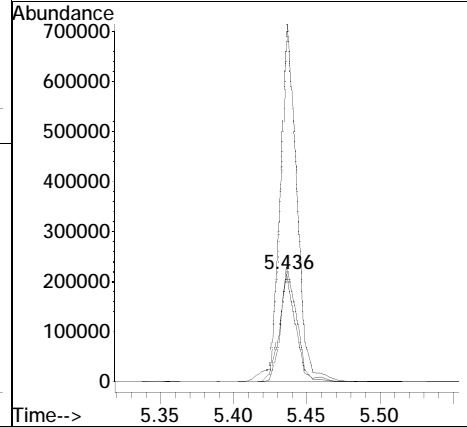
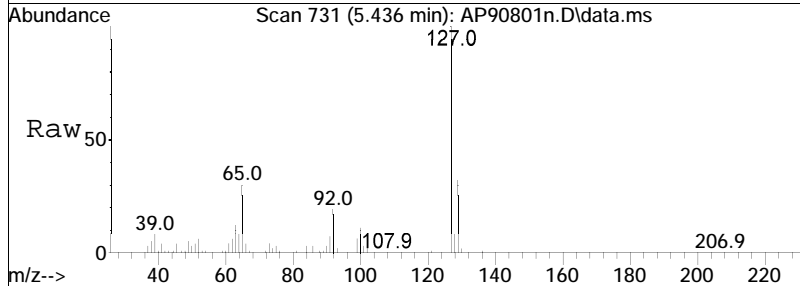
Tgt Ion: 59 Resp: 386794
 Ion Ratio Lower Upper
 59 100
 93 56.7 38.3 57.5

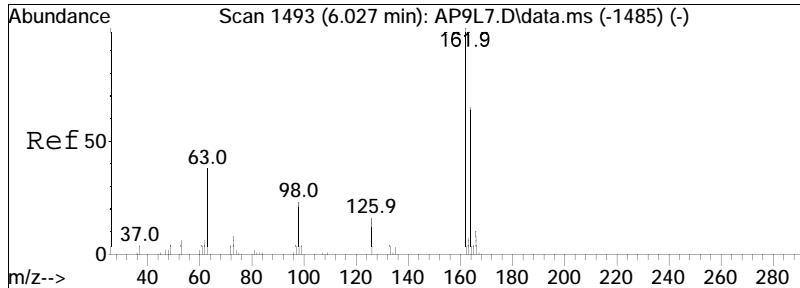




#57
 3-Chloroaniline
 Concen: 48.67 ug/ml
 RT: 5.436 min Scan# 731
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 2 Aug 2023 12:20 am

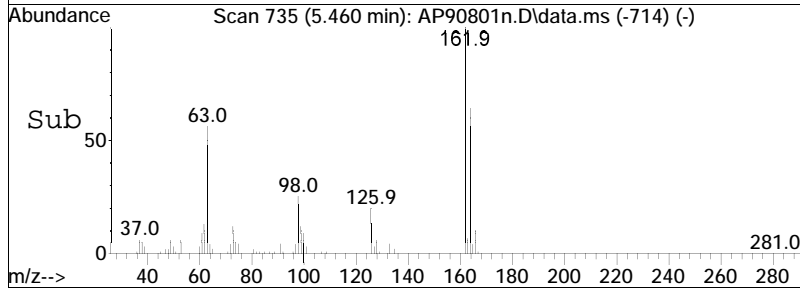
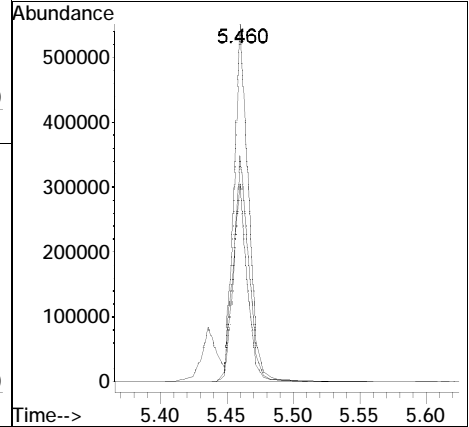
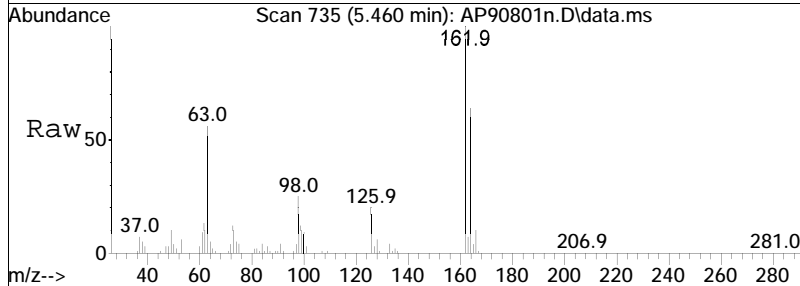
Tgt Ion:	Resp:	Lower	Upper
65	100		
127	304.6	246.5	369.7
129	97.4	80.3	120.5

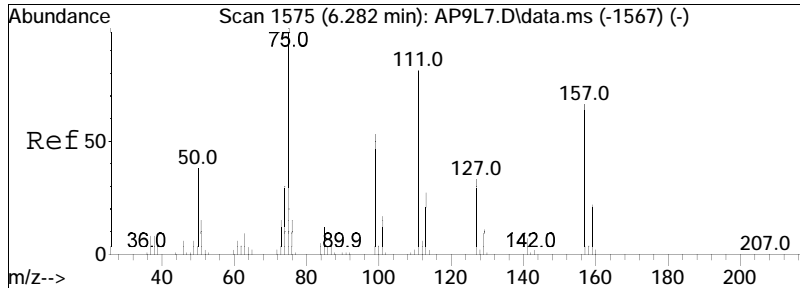




#58
 2,6-Dichlorophenol
 Concen: 54.86 ug/ml
 RT: 5.460 min Scan# 735
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 2 Aug 2023 12:20 am

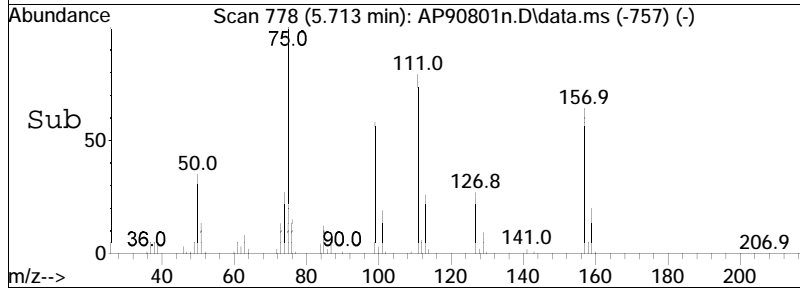
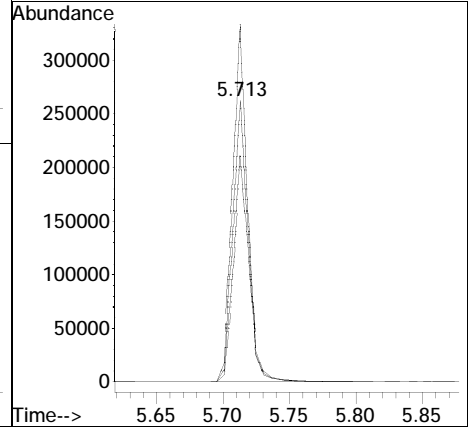
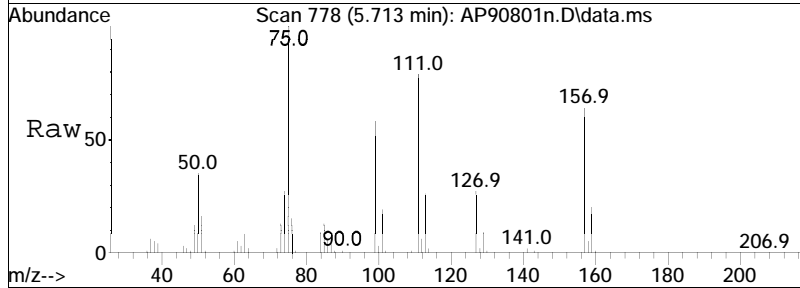
Tgt Ion	Resp	Lower	Upper
162	419362		
162	100		
164	63.4	51.7	77.5
63	54.0	49.5	74.3

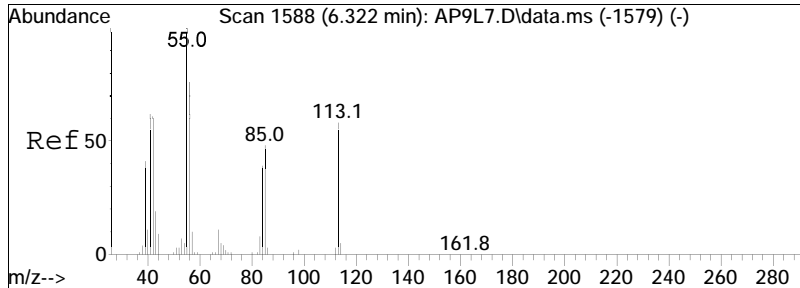




#59
 1-chloro-2-nitrobenzene
 Concen: 51.26 ug/ml
 RT: 5.713 min Scan# 778
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 2 Aug 2023 12:20 am

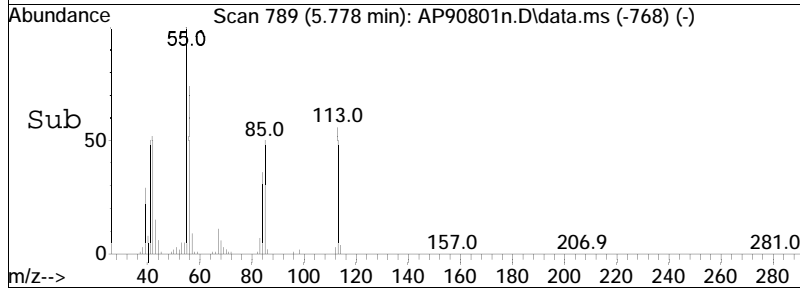
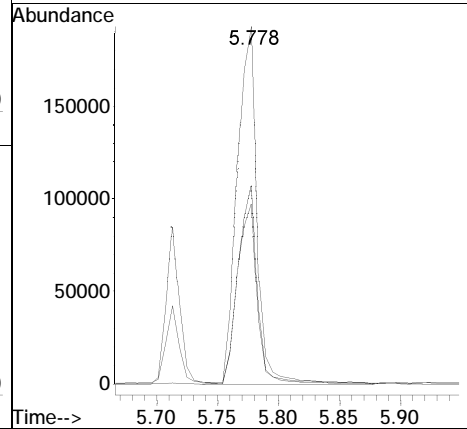
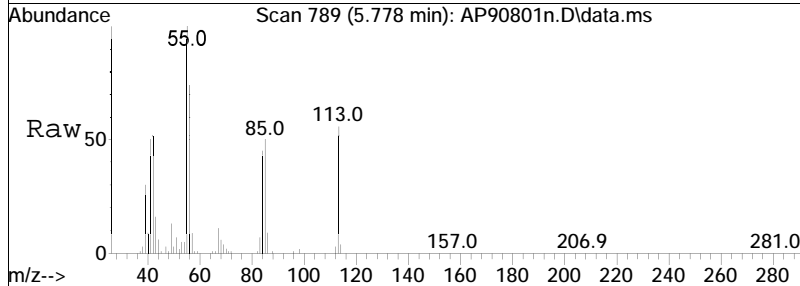
Tgt Ion	Resp	Lower	Upper
111	100		
157	80.2	61.1	91.7
75	124.4	96.3	144.5

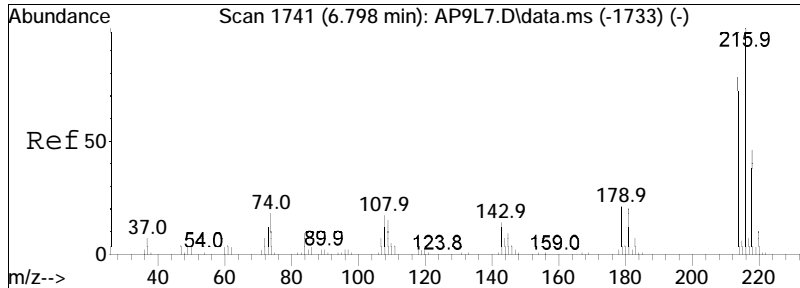




#60
 Caprolactam
 Concen: 51.52 ug/ml
 RT: 5.778 min Scan# 789
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 2 Aug 2023 12:20 am

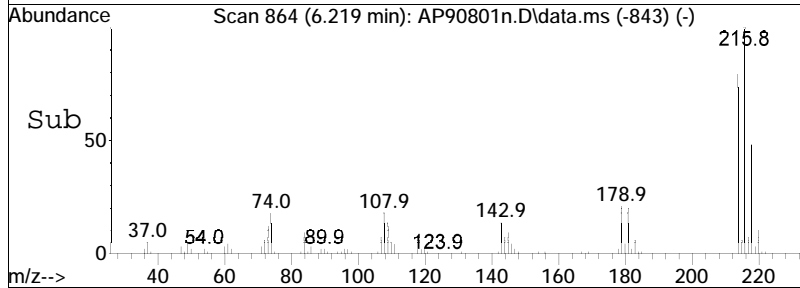
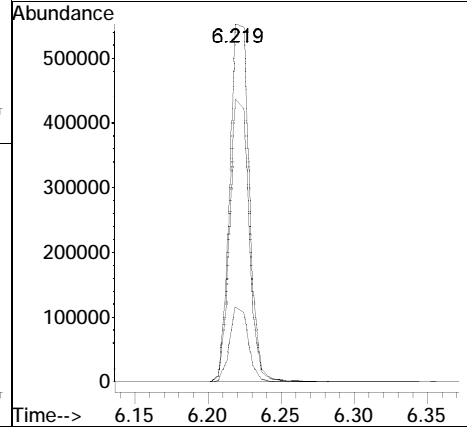
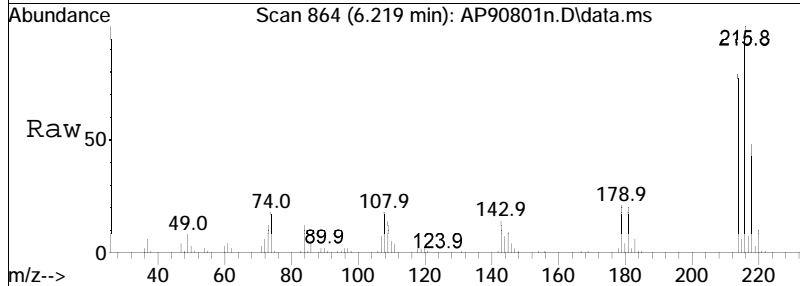
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
55	100		
85	52.3	30.9	46.3#
113	53.4	34.7	52.1#

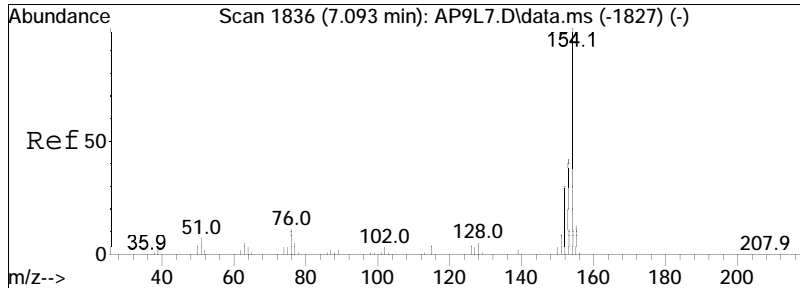




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 51.53 ug/ml
 RT: 6.219 min Scan# 864
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 2 Aug 2023 12:20 am

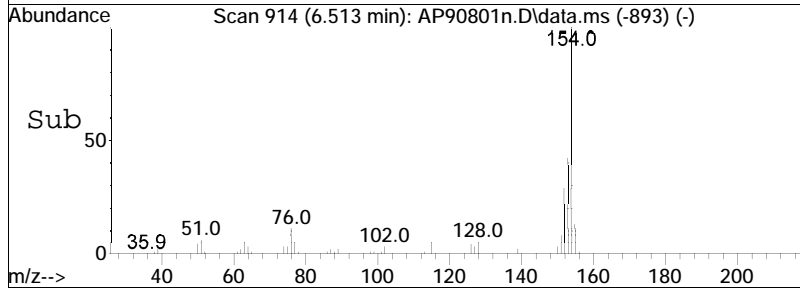
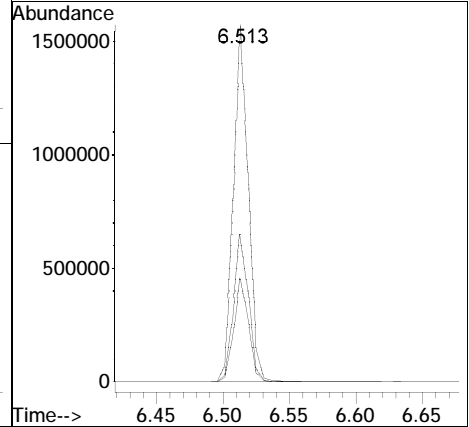
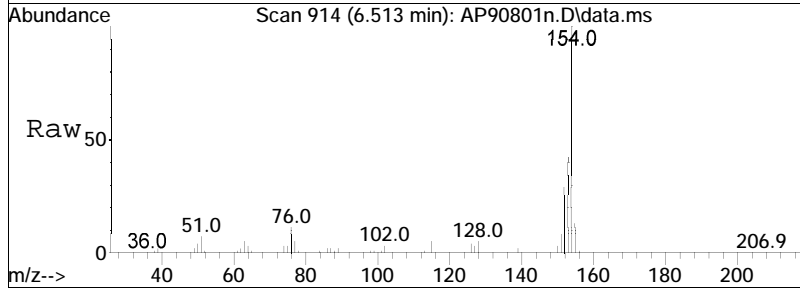
Tgt Ion	Ratio	Lower	Upper
216	100		
214	78.1	62.2	93.4
179	20.4	17.4	26.2

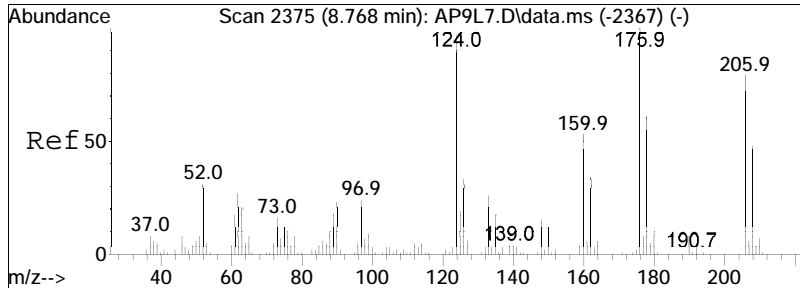




#62
 Biphenyl
 Concen: 51.68 ug/ml
 RT: 6.513 min Scan# 914
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 2 Aug 2023 12:20 am

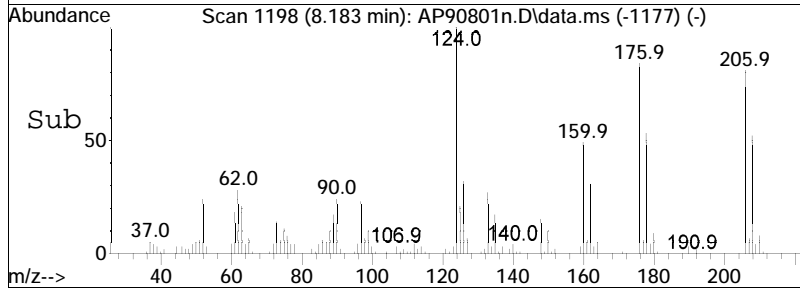
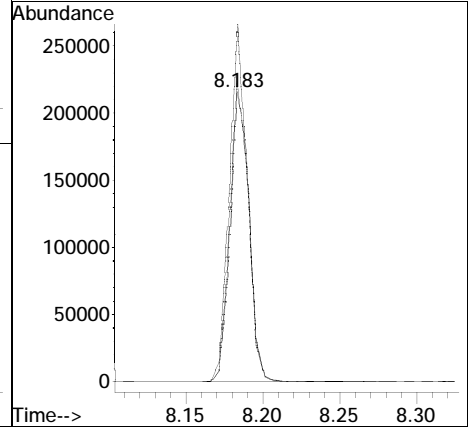
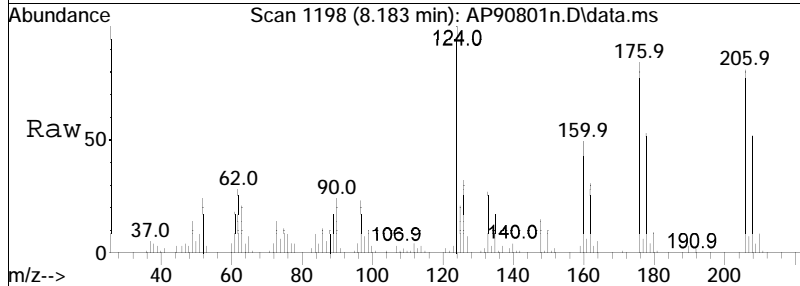
Tgt Ion	Resp	Lower	Upper
154	100		
153	42.1	33.4	50.0
152	29.1	23.0	34.6

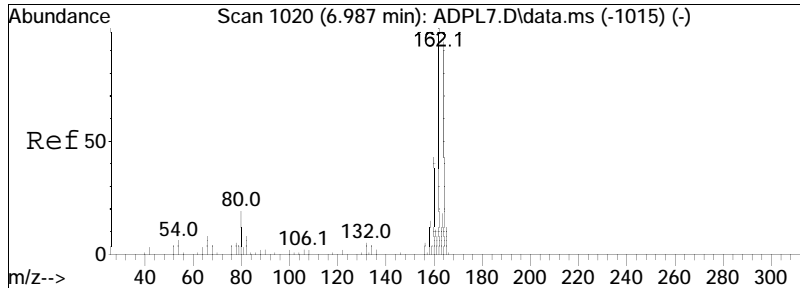




#84
 Dichloran
 Concen: 61.37 ug/ml
 RT: 8.183 min Scan# 1198
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 2 Aug 2023 12:20 am

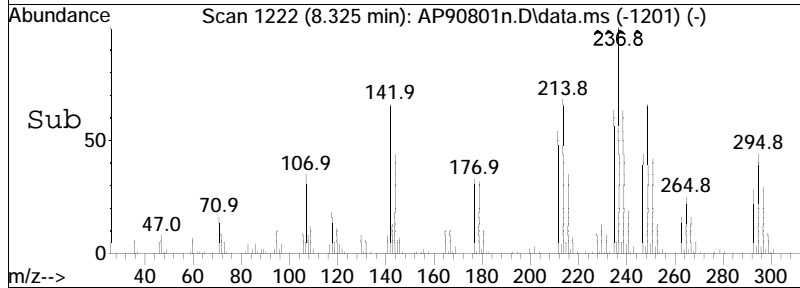
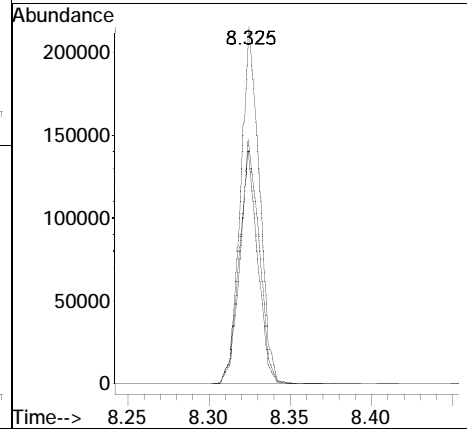
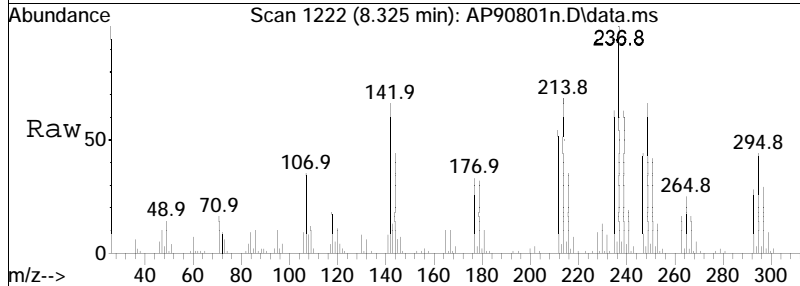
Tgt Ion	Resp	Lower	Upper
206	100		
176	101.2	94.8	142.2
124	114.5	107.9	161.9

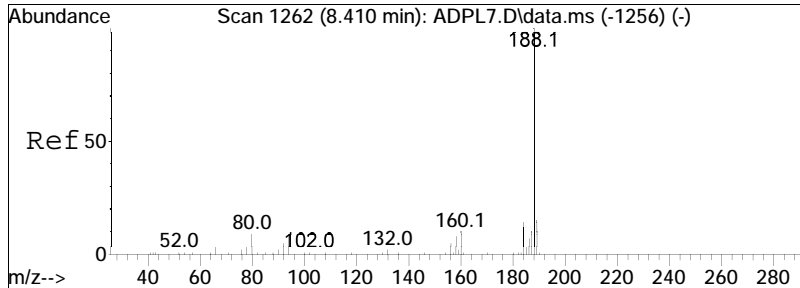




#85
 Pentachloronitrobenzene
 Concen: 52.12 ug/ml
 RT: 8.325 min Scan# 1222
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 2 Aug 2023 12:20 am

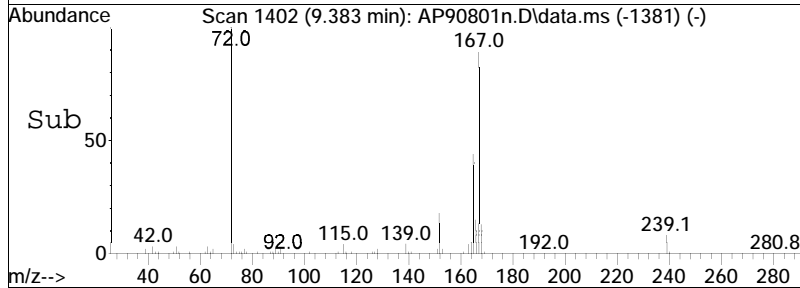
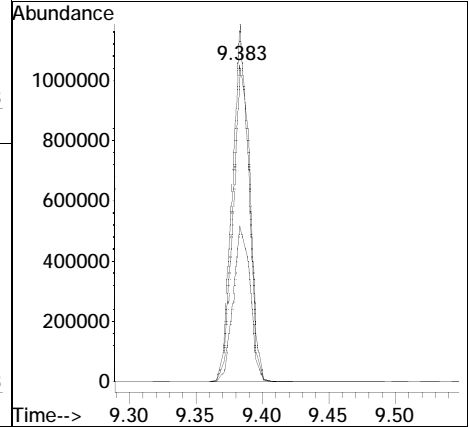
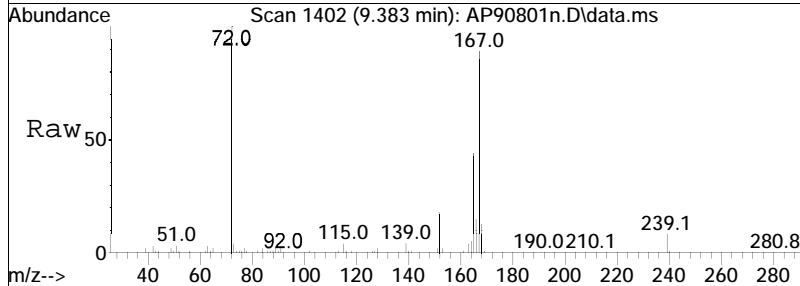
Tgt Ion	Ratio	Lower	Upper
237	100		
142	64.4	59.4	89.2
214	68.6	56.5	84.7





#99
 Diphenamid
 Concen: 50.34 ug/ml
 RT: 9.383 min Scan# 1402
 Delta R.T. 0.000 min
 Lab File: AP90801n.D
 Acq: 2 Aug 2023 12:20 am

Tgt Ion	Resp	Lower	Upper
167	100		
72	106.7	94.5	141.7
165	48.7	37.9	56.9



Manual Integration Report

Data Path : I:\8270\SV109\230801n\ QMethod : FS230531SV109.m
Data File : AP90801n.D Operator : SV109:ljpg
Date Inj'd : 8/2/2023 12:20 am Instrument : SV109
Sample : WG1810592-4,32,,AP9 CCV LoQuant Date : 8/2/2023 1:15 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\230801n\
 Data File : ADP0801n.D
 Acq On : 2 Aug 2023 12:43 am
 Operator : SV109:ljpg
 Sample : WG1810592-5,32,,ADP CCV Lot # 10057
 Misc : WG1810592,,ical20078
 ALS Vial : 144 Sample Multiplier: 1

Quant Time: Aug 02 01:22:33 2023
 Quant Method : I:\8270\SV109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 01:21:39 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32 I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	169	0.00
33 T	1,4-Dioxane	0.414	0.413	0.2	160	0.00
34 T	n-Decane	1.180	1.204	-2.0	166	0.00
86 I	IS3_Acenaphthene-d10	1.000	1.000	0.0	164	0.00
87 T	Atrazine	0.421	0.442	-5.0	167	0.00
100 I	IS3_Phenanthrene-d10	1.000	1.000	0.0	161	0.00
101 T	n-Octadecane	0.419	0.395	5.7	149	0.00
102 T	Parathion	0.118	0.145	-22.9#	195	0.00
103 T	3,3'-Dimethylbenzidine	0.750	0.866	-15.5	174	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : ADP0801n.D
 Acq On : 2 Aug 2023 12:43 am
 Operator : SV109:ljj
 Sample : WG1810592-5,32,,ADP CCV Lot # 10057
 Misc : WG1810592,,ical20078
 ALS Vial : 144 Sample Multiplier: 1

Quant Time: Aug 02 01:22:33 2023
 Quant Method : I:\8270\SV109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 01:21:39 2023
 Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.098	152	265592	40.000	ug/ml	0.00
86) IS3_Acenaphthene-d10	7.045	164	587706	40.000	ug/ml	0.00
100) IS3_Phenanthrene-d10	8.469	188	1295083	40.000	ug/ml	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.204	88	136982	49.872	ug/ml#	85
34) n-Decane	4.004	57	399588	50.993	ug/ml	94
87) Atrazine	8.275	200	324617	52.512	ug/ml	99
101) n-Octadecane	8.480	57	638906	47.146	ug/ml	95
102) Parathion	9.269	109	234546	61.358	ug/ml#	91
103) 3,3'-Dimethylbenzidine	10.527	212	1402266	57.775	ug/ml	100

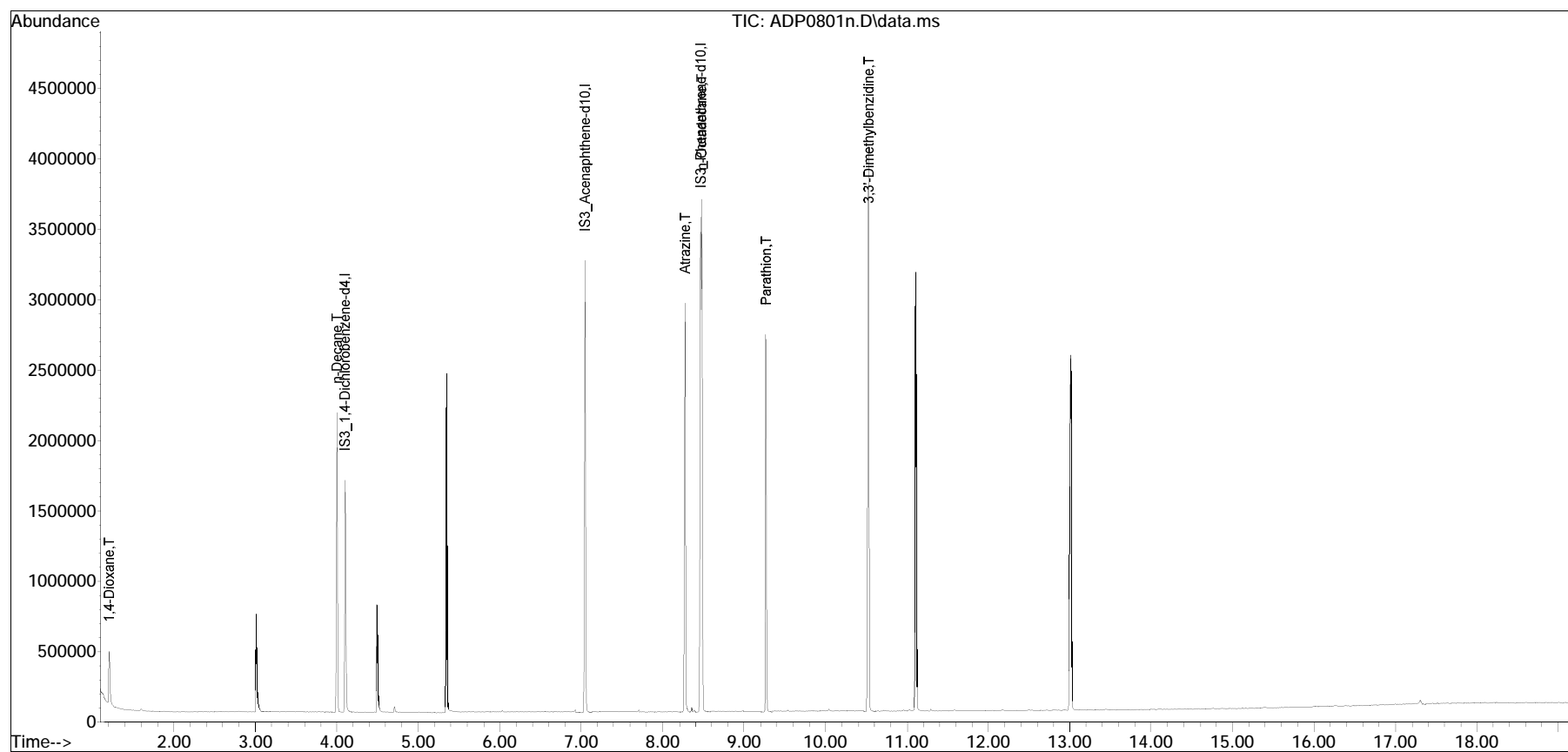
(#) = qualifier out of range (m) = manual integration (+) = signals summed

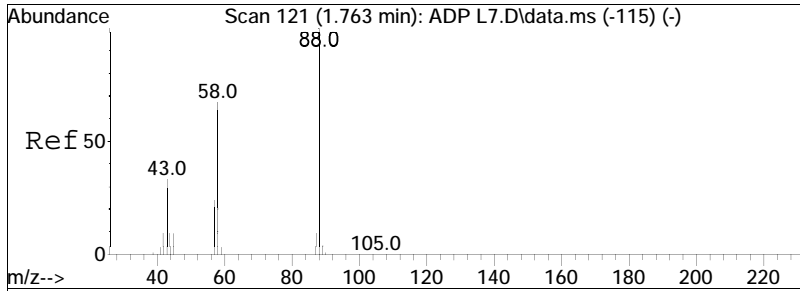
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
Data File : ADP0801n.D
Acq On : 2 Aug 2023 12:43 am
Operator : SV109:ljpg
Sample : WG1810592-5,32,,ADP CCV Lot # 10057
Misc : WG1810592,,ical20078
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Aug 02 01:22:33 2023
Quant Method : I:\8270\SV109\230801n\FS230531SV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 02 01:21:39 2023
Response via : Initial Calibration

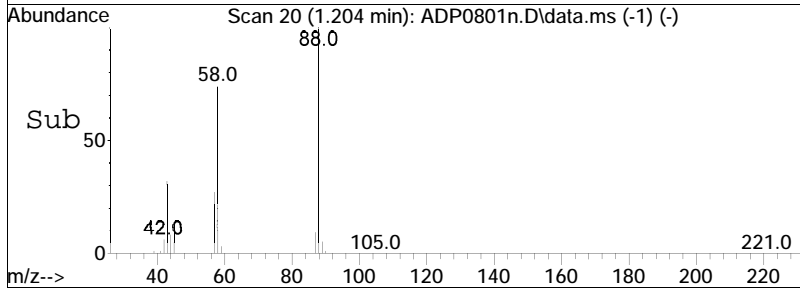
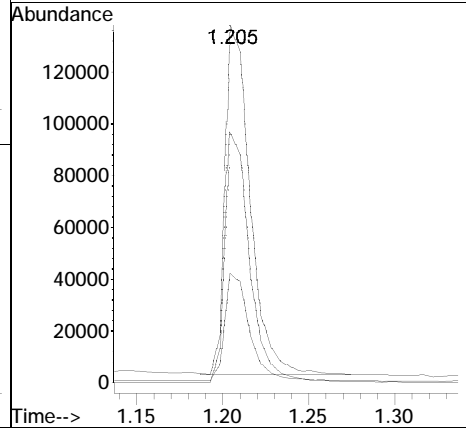
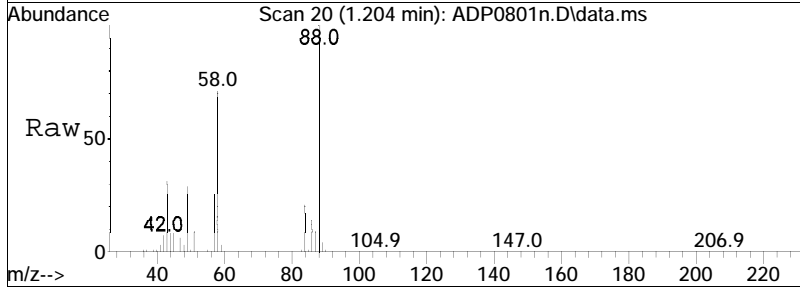
Sub List : ADPical_REV2 - ADP sublist

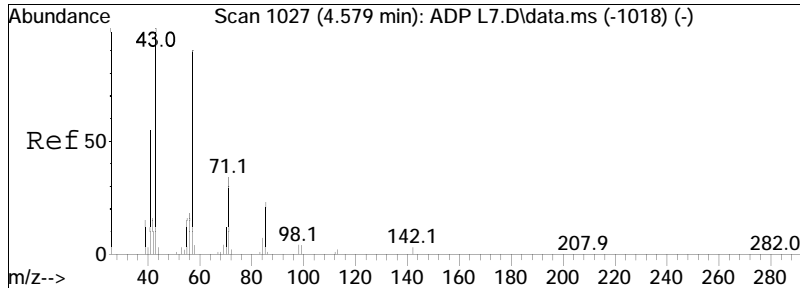




#33
 1,4-Dioxane
 Concen: 49.87 ug/ml
 RT: 1.204 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: ADP0801n.D
 Acq: 2 Aug 2023 12:43 am

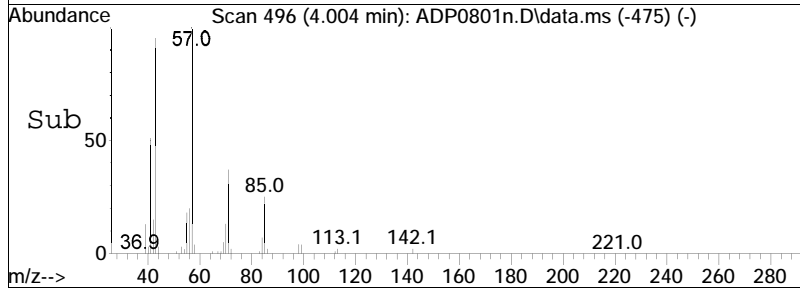
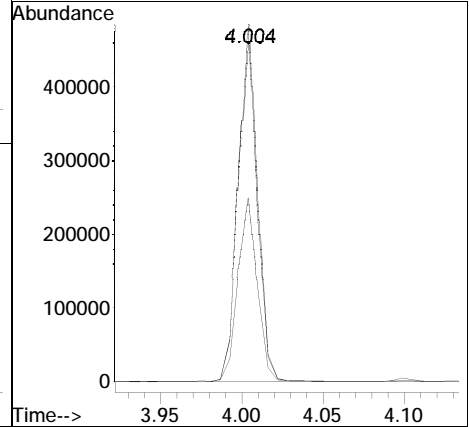
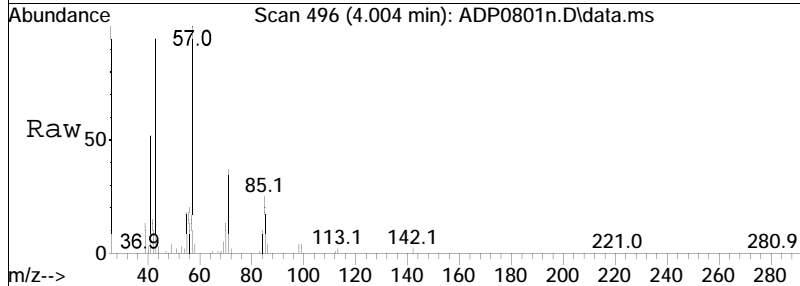
Tgt Ion	Ratio	Lower	Upper
88	100		
58	70.5	44.8	67.2#
43	30.6	22.4	33.6

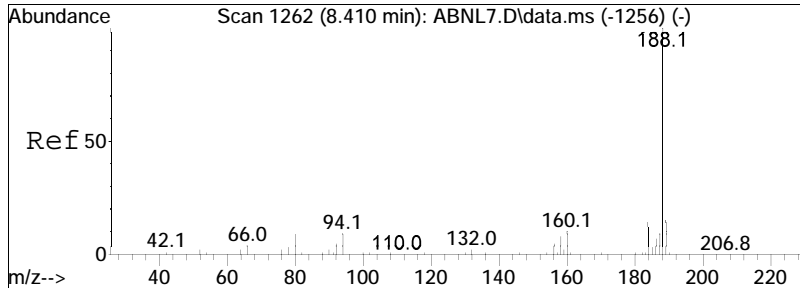




#34
 n-Decane
 Concen: 50.99 ug/ml
 RT: 4.004 min Scan# 496
 Delta R.T. 0.000 min
 Lab File: ADP0801n.D
 Acq: 2 Aug 2023 12:43 am

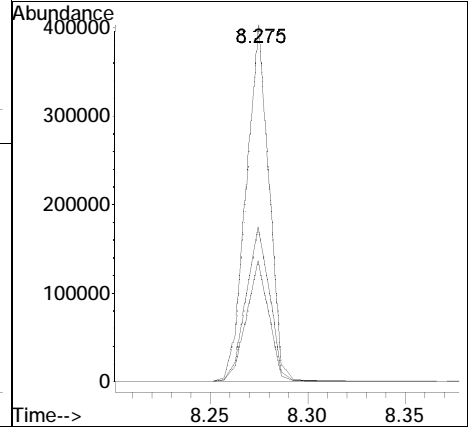
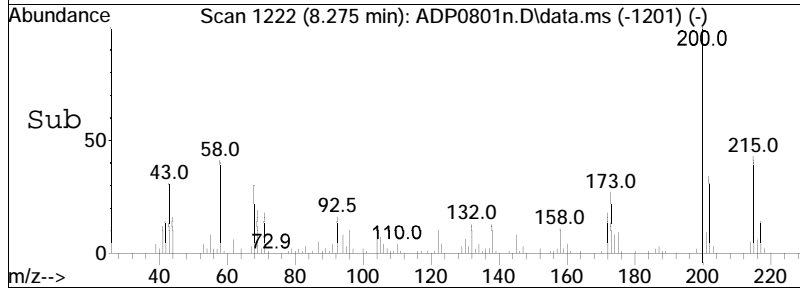
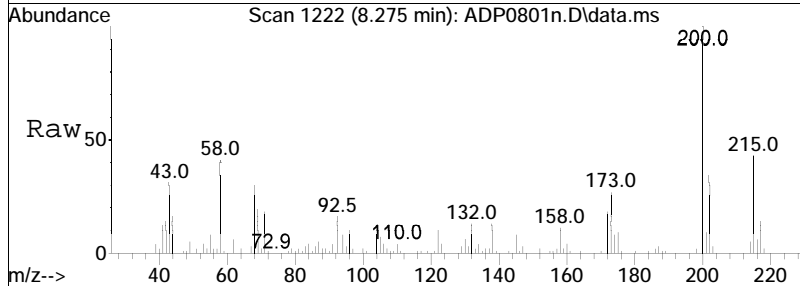
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
57	100		
43	95.3	80.2	120.4
41	51.4	36.8	55.2

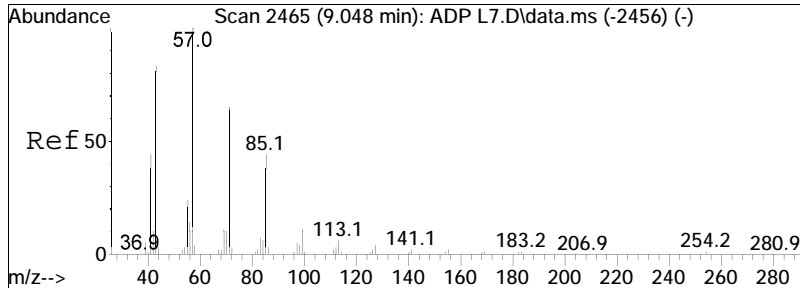




#87
 Atrazine
 Concen: 52.51 ug/ml
 RT: 8.275 min Scan# 1222
 Delta R.T. 0.000 min
 Lab File: ADP0801n.D
 Acq: 2 Aug 2023 12:43 am

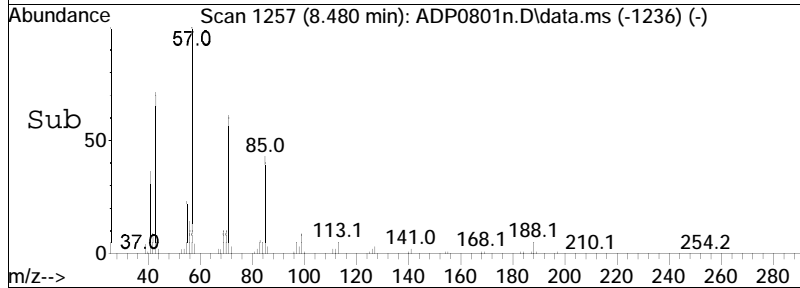
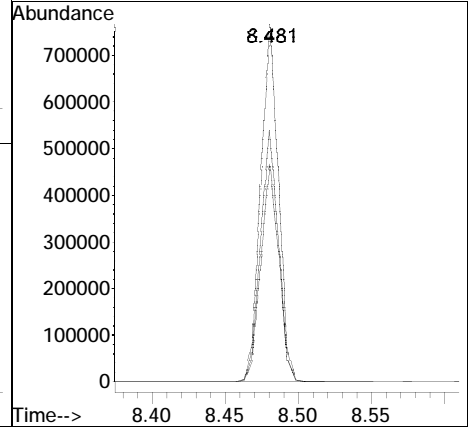
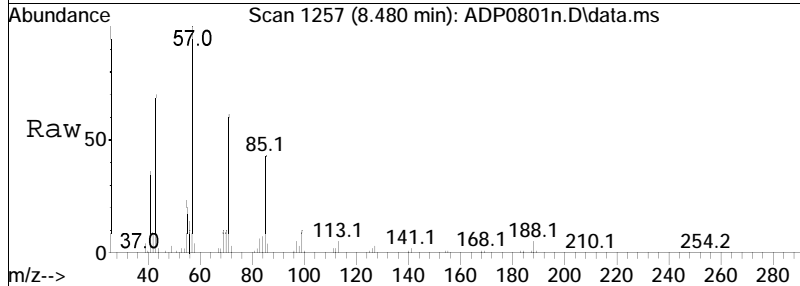
Tgt Ion	Ratio	Lower	Upper
200	100		
202	33.7	26.1	39.1
215	45.1	36.2	54.2

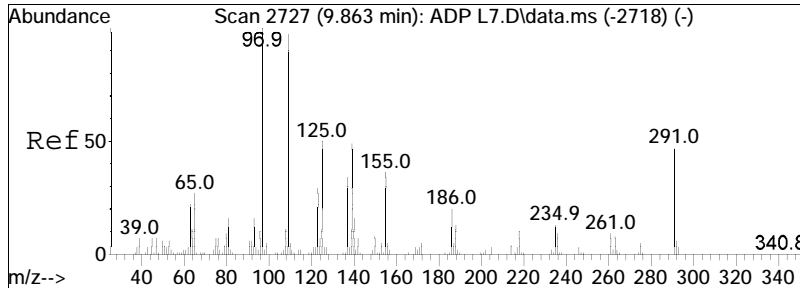




#101
 n-Octadecane
 Concen: 47.15 ug/ml
 RT: 8.480 min Scan# 1257
 Delta R.T. 0.000 min
 Lab File: ADP0801n.D
 Acq: 2 Aug 2023 12:43 am

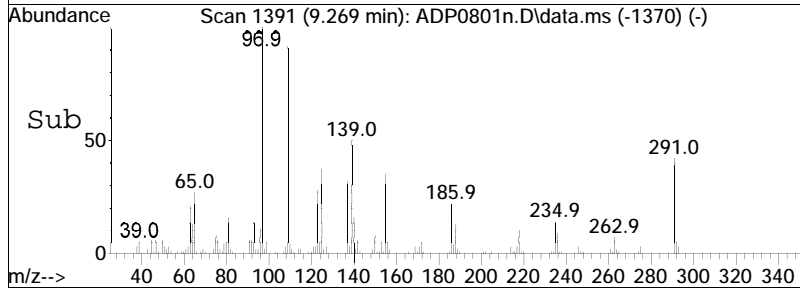
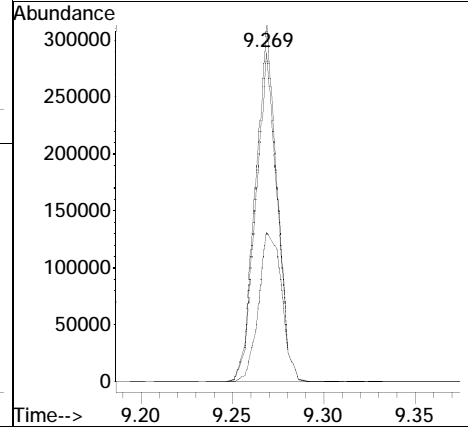
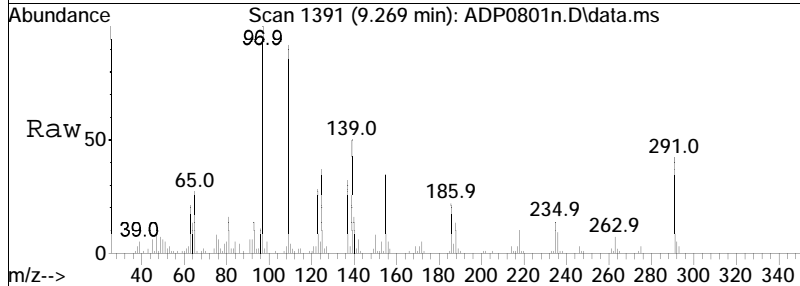
Tgt Ion	Resp	Lower	Upper
57	100		
43	70.7	56.6	84.8
71	61.5	42.1	63.1

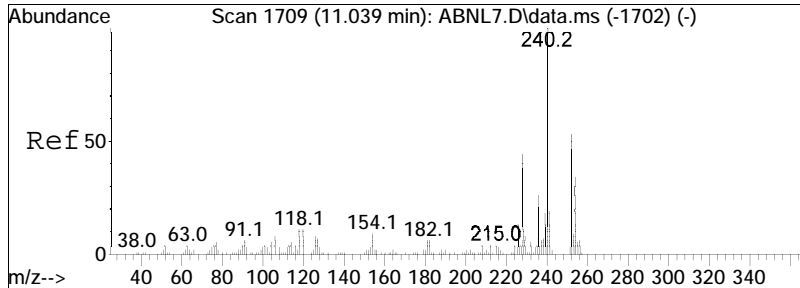




#102
 Parathion
 Concen: 61.36 ug/ml
 RT: 9.269 min Scan# 1391
 Delta R.T. 0.000 min
 Lab File: ADP0801n.D
 Acq: 2 Aug 2023 12:43 am

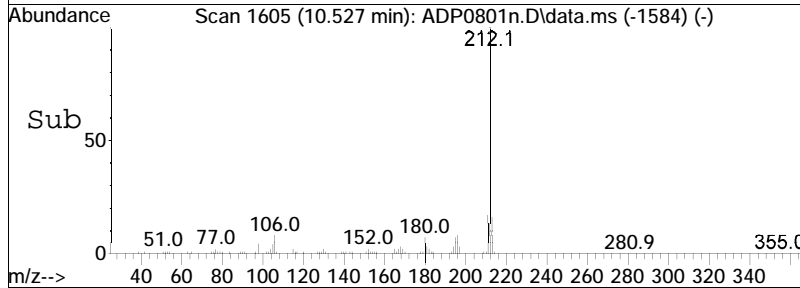
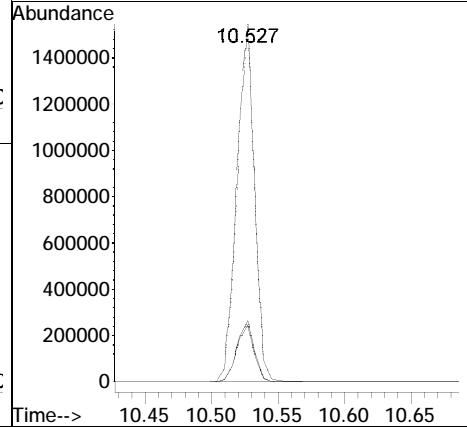
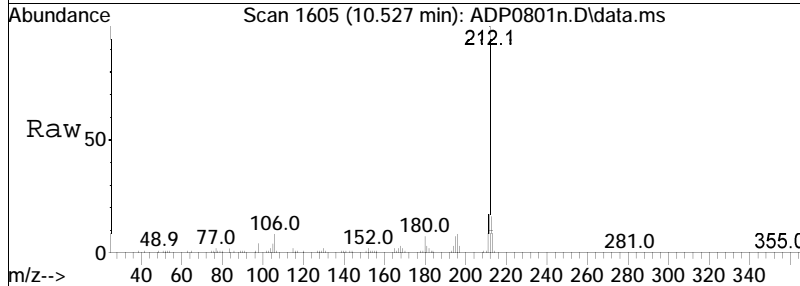
Tgt Ion	109	Resp:	234546
Ion Ratio	Lower	Upper	
109	100		
97	108.5	82.5	123.7
291	49.2	30.7	46.1#





#103
 3,3'-Dimethylbenzidine
 Concen: 57.78 ug/ml
 RT: 10.527 min Scan# 1605
 Delta R.T. 0.000 min
 Lab File: ADP0801n.D
 Acq: 2 Aug 2023 12:43 am

Tgt Ion	Ratio	Lower	Upper
212	100		
211	17.0	13.5	20.3
213	15.9	12.9	19.3



Manual Integration Report

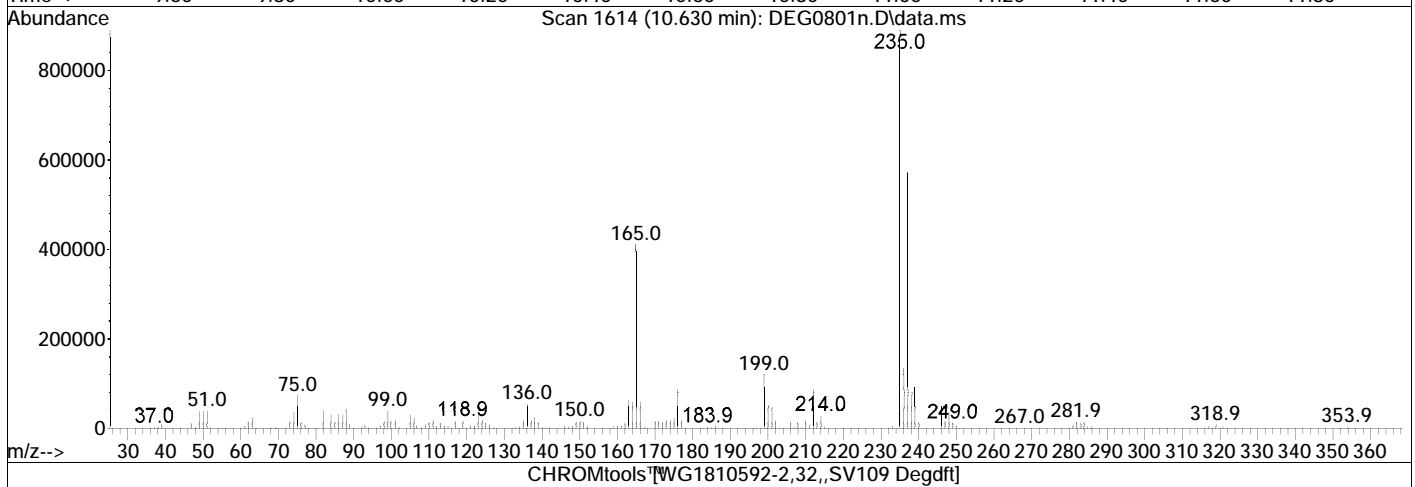
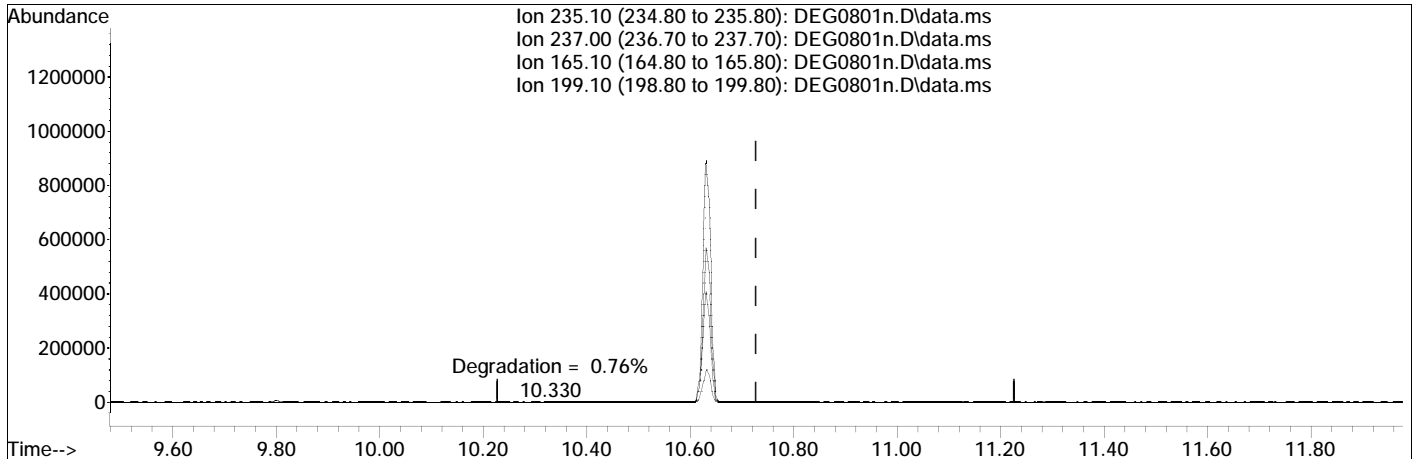
Data Path : I:\8270\SV109\230801n\ QMethod : FS230531SV109.m
Data File : ADP0801n.D Operator : SV109:ljpg
Date Inj'd : 8/2/2023 12:43 am Instrument : SV109
Sample : WG1810592-5,32,,ADP CCV LoQuant Date : 8/2/2023 1:22 am

There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV109\230801n\
 Data File : DEG0801n.D
 Acq On : 1 Aug 2023 11:33 pm
 Operator : SV109:ljj
 Sample : WG1810592-2,32,,SV109 Degdft
 Misc : WG1810592,,ical20078
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: Aug 02 12:20:46 2023
 Quant Method : I:\8270\SV109\230801n\DftppSV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 01 13:08:17 2023
 Response via : Initial Calibration



(6) DDT (T)

10.630min (-0.097) 142.68

response 869759

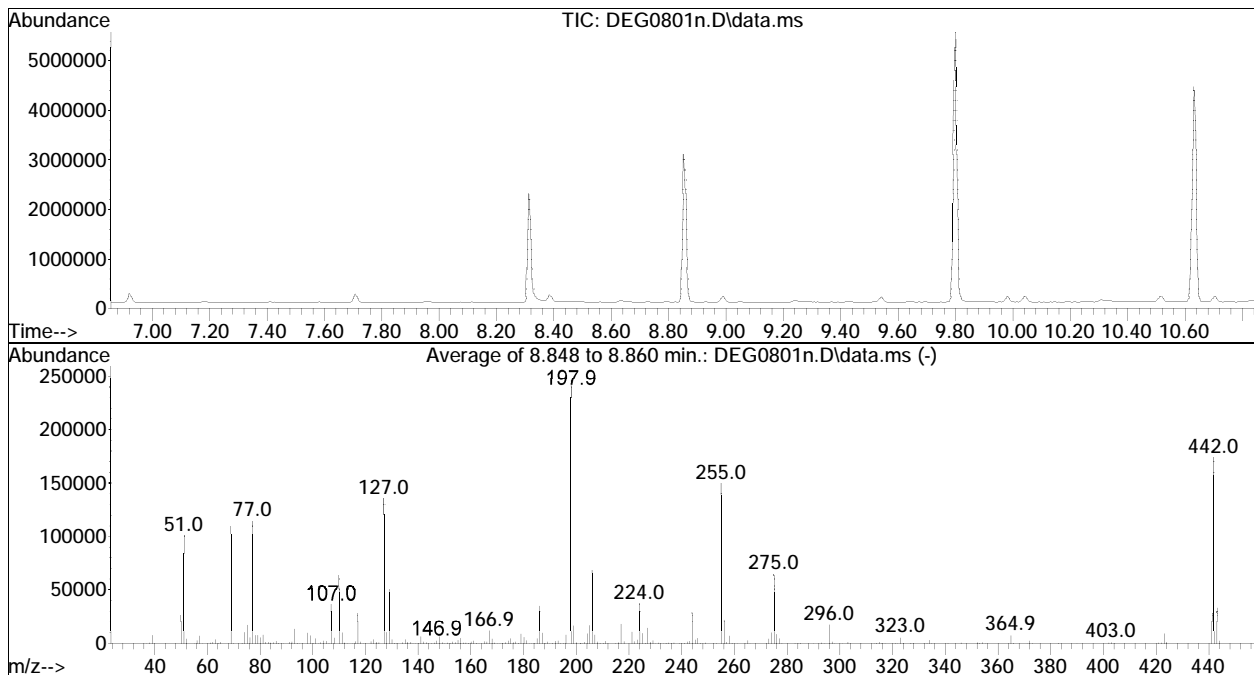
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.90
165.10	49.80	46.04
199.10	14.10	13.76

DFTPP

Data Path : I:\8270\SV109\230801n\
 Data File : DEG0801n.D
 Acq On : 1 Aug 2023 11:33 pm
 Operator : SV109: ASK
 Sample : WG1810592-1,32,,SV109 Degdft
 Misc : WG1810592,,ical20078
 ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV109\230801n\FS230531SV109.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Aug 02 01:21:37 2023



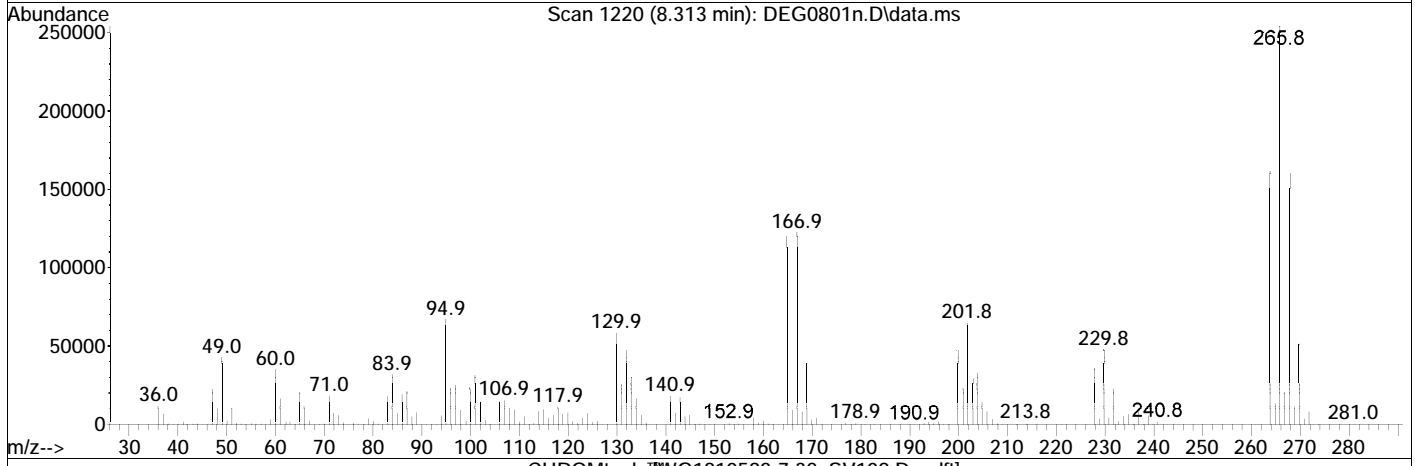
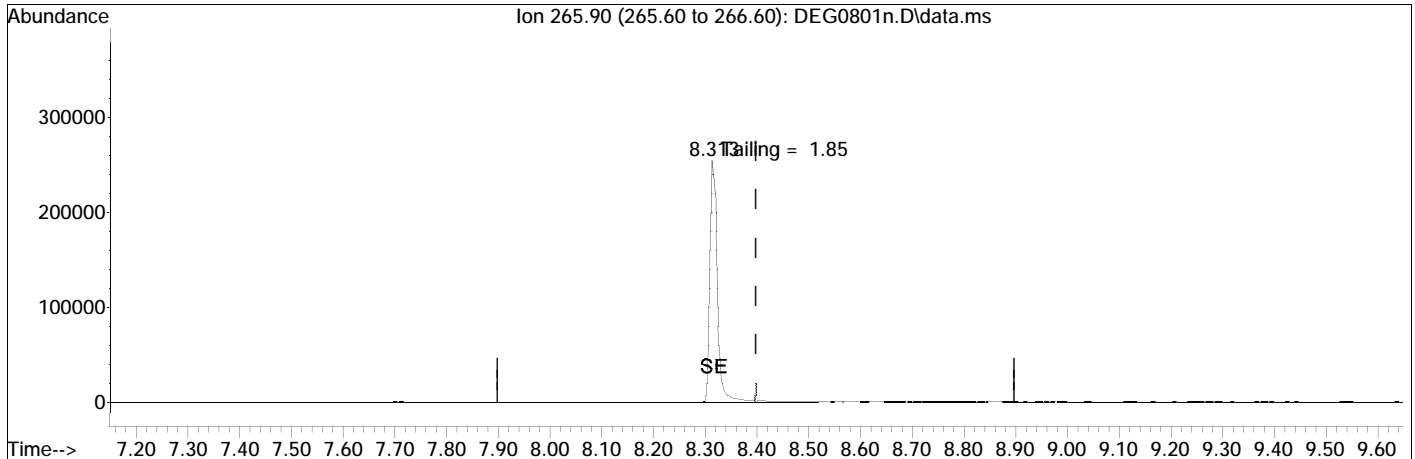
Spectrum Information: Average of 8.848 to 8.860 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.9	100929	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	109330	PASS
70	69	0.00	2	0.5	564	PASS
127	198	10	80	54.8	135309	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	246776	PASS
199	198	5	9	6.5	16061	PASS
275	198	10	60	26.1	64472	PASS
365	198	1	100	3.1	7640	PASS
441	442	0.01	24	16.2	28045	PASS
442	198	50	100	70.3	173429	PASS
443	442	15	24	19.1	33112	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV109\230801n\
 Data File : DEG0801n.D
 Acq On : 1 Aug 2023 11:33 pm
 Operator : SV109:ljj
 Sample : WG1810592-7,32,,SV109 Degdft
 Misc : WG1810592,,ical20078
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: Aug 02 12:20:46 2023
 Quant Method : I:\8270\SV109\230801n\DftppSV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 01 13:08:17 2023
 Response via : Initial Calibration



(1) Pentachlorophenol (T)

8.313min (-0.085) 117.00

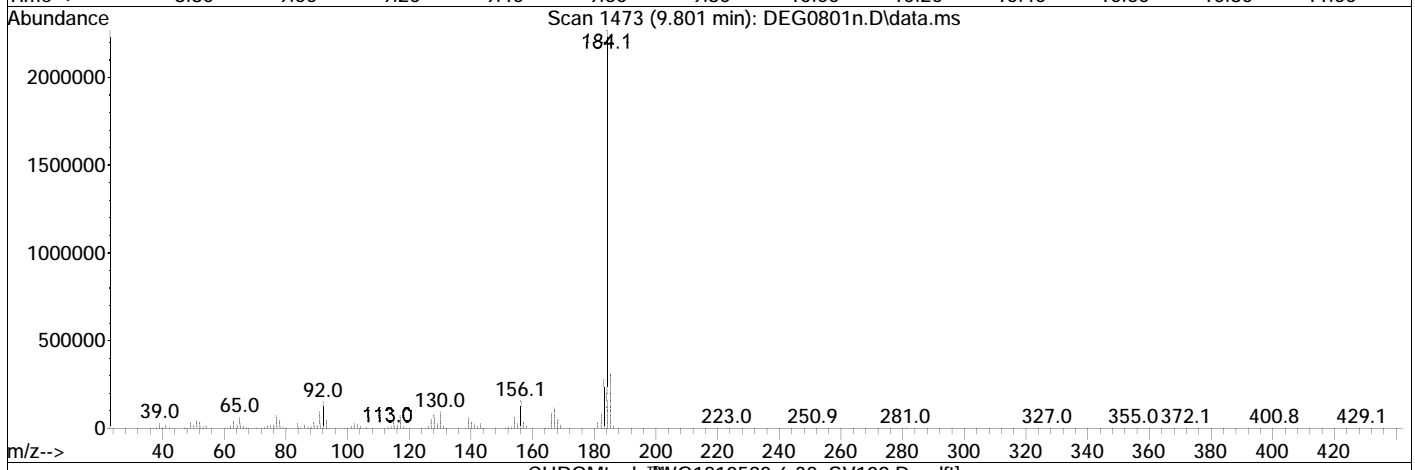
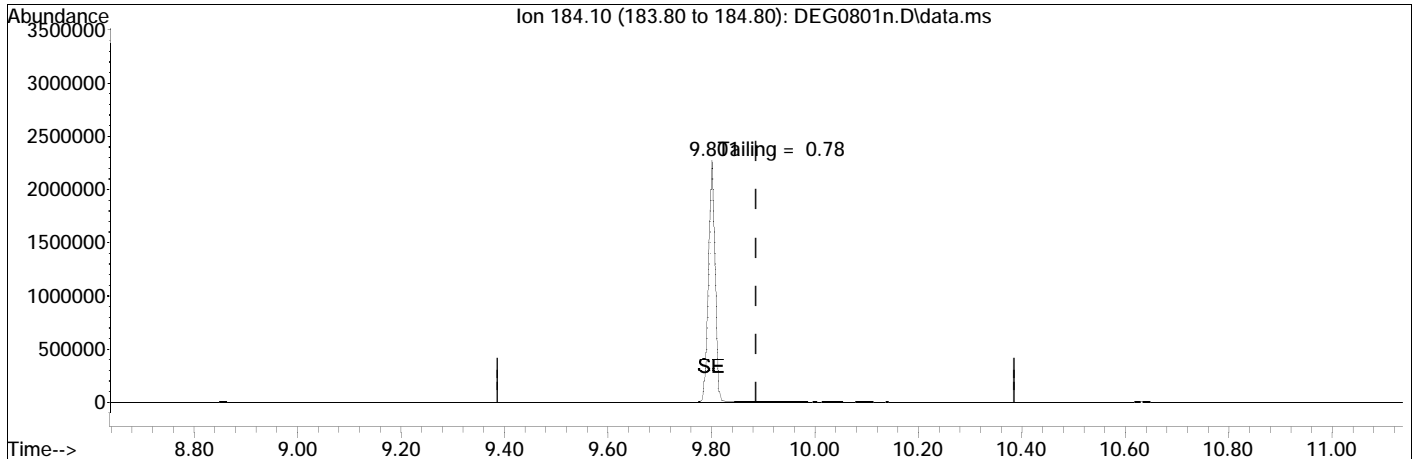
response 245735

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV109\230801n\
 Data File : DEG0801n.D
 Acq On : 1 Aug 2023 11:33 pm
 Operator : SV109:ljj
 Sample : WG1810592-6,32,,SV109 Degdft
 Misc : WG1810592,,ical20078
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: Aug 02 12:20:46 2023
 Quant Method : I:\8270\SV109\230801n\DftppSV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 01 13:08:17 2023
 Response via : Initial Calibration



CHROMtools [WG1810592-6,32,,SV109 Degdft]
 (3) Benzidine (T)
 9.801min (-0.085) 181.97
 response 1852465

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
 Data File : 809554-1.D
 Acq On : 2 Aug 2023 1:43 am
 Operator : Juliet:mg
 Sample : WG1809554-1,32,,ASK
 Misc : WG1810591,WG1809554,ical20193
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 22:45:14 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:53 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230801n\ABN0801n.D
 : 2 - I:\8270\Juliet\230801n\ADP0801n.D
 : 3 - I:\8270\Juliet\230801n\AP90801n.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.316	152	207586	40.000	ug/ml	0.00
Standard Area 1 = 216721			Recovery =	95.78%		
27) IS2_1,4-Dichlorobenzen...	3.316	152	207481	40.000	ug/ml	0.00
Standard Area 3 = 242524			Recovery =	85.55%		
32) IS3_1,4-Dichlorobenzen...	3.316	152	207586	40.000	ug/ml	0.00
Standard Area 2 = 233446			Recovery =	88.92%		
35) IS1_Naphthalene-d8	4.410	136	749763	40.000	ug/ml	# 0.00
Standard Area 1 = 758234			Recovery =	98.88%		
55) IS2_Naphthalene-d8	4.410	136	750136	40.000	ug/ml	# 0.00
Standard Area 3 = 843065			Recovery =	88.98%		
63) IS1_Acenaphthene-d10	5.922	164	447048	40.000	ug/ml	0.00
Standard Area 1 = 451048			Recovery =	99.11%		
83) IS2_Acenaphthene-d10	5.922	164	447048	40.000	ug/ml	0.00
Standard Area 3 = 502187			Recovery =	89.02%		
86) IS3_Acenaphthene-d10	5.922	164	447048	40.000	ug/ml	0.00
Standard Area 2 = 513461			Recovery =	87.07%		
88) IS1_Phenanthrene-d10	7.186	188	987543	40.000	ug/ml	# 0.00
Standard Area 1 = 1011690			Recovery =	97.61%		
100) IS3_Phenanthrene-d10	7.186	188	987543	40.000	ug/ml	# 0.00
Standard Area 2 = 1127462			Recovery =	87.59%		
104) IS1_Chrysene-d12	9.586	240	1049095	40.000	ug/ml	# 0.00
Standard Area 1 = 1043233			Recovery =	100.56%		
113) IS1_Perylene-d12	11.474	264	1291299	40.000	ug/ml	0.00
Standard Area 1 = 1222692			Recovery =	105.61%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.234	112	130738	24.987	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	49.97%	
7) Phenol-d6	3.069	99	104968	15.669	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	31.34%	
19) Nitrobenzene-d5	3.804	82	106742	17.735	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	70.94%	
46) 2-Fluorobiphenyl	5.363	172	319900	20.300	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	81.20%	
79) 2,4,6-Tribromophenol	6.604	330	111704	43.547	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	87.09%	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
 Data File : 809554-1.D
 Acq On : 2 Aug 2023 1:43 am
 Operator : Juliet:mg
 Sample : WG1809554-1,32,,ASK
 Misc : WG1810591,WG1809554,ical20193
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 22:45:14 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:53 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230801n\ABN0801n.D
 : 2 - I:\8270\Juliet\230801n\ADP0801n.D
 : 3 - I:\8270\Juliet\230801n\AP90801n.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	8.592	244	515983	21.452	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	85.81%
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0			N.D.
8) Phenol	0.000		0			N.D.
9) Bis(2-chloroethyl)ether	0.000		0			N.D.
14) Bis(2-chloroisopropyl)...	0.000		0			N.D.
15) 2-Methylphenol	0.000		0			N.D.
17) n-Nitrosodi-n-propylamine	0.000		0			N.D.
18) 3-Methylphenol/4-Methy...	0.000		0			N.D.
20) Nitrobenzene	0.000		0			N.D.
21) Isophorone	0.000		0			N.D.
22) 2-Nitrophenol	0.000		0			N.D.
23) 2,4-Dimethylphenol	0.000		0			N.D.
24) Bis(2-chloroethoxy)met...	0.000		0			N.D.
25) 2,4-Dichlorophenol	0.000		0			N.D.
28) Benzaldehyde	0.000		0			N.D.
29) Acetophenone	0.000		0			N.D.
38) 4-Chloroaniline	0.000		0			N.D.
40) p-Chloro-m-cresol	0.000		0			N.D.
43) Hexachlorocyclopentadiene	0.000		0			N.D.
44) 2,4,6-Trichlorophenol	0.000		0			N.D.
45) 2,4,5-Trichlorophenol	0.000		0			N.D.
48) 2-Nitroaniline	0.000		0			N.D.
51) Dimethyl phthalate	0.000		0			N.D.
53) 2,6-Dinitrotoluene	0.000		0			N.D.
60) Caprolactam	0.000		0			N.D.
61) 1,2,4,5-Tetrachloroben...	0.000		0			N.D.
62) Biphenyl	0.000		0			N.D.
64) 3-Nitroaniline	0.000		0			N.D.
66) 2,4-Dinitrophenol	0.000		0			N.D.
67) Dibenzofuran	0.000		0			N.D.
68) 2,4-Dinitrotoluene	0.000		0			N.D.
69) 4-Nitrophenol	0.000		0			N.D.
71) 2,3,4,6-Tetrachlorophenol	0.000		0			N.D.
72) Diethyl phthalate	0.000		0			N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
 Data File : 809554-1.D
 Acq On : 2 Aug 2023 1:43 am
 Operator : Juliet:mg
 Sample : WG1809554-1,32,,ASK
 Misc : WG1810591,WG1809554,ical20193
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 22:45:14 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:53 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230801n\ABN0801n.D
 : 2 - I:\8270\Juliet\230801n\ADP0801n.D
 : 3 - I:\8270\Juliet\230801n\AP90801n.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Chlorophenyl phenyl ...	0.000		0		N.D.	
75) 4-Nitroaniline	0.000		0		N.D.	
76) 4,6-Dinitro-o-cresol	0.000		0		N.D.	
77) NDPA/DPA	0.000		0		N.D.	d
80) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	d
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
109) Di-n-octylphthalate	0.000		0		N.D.	d

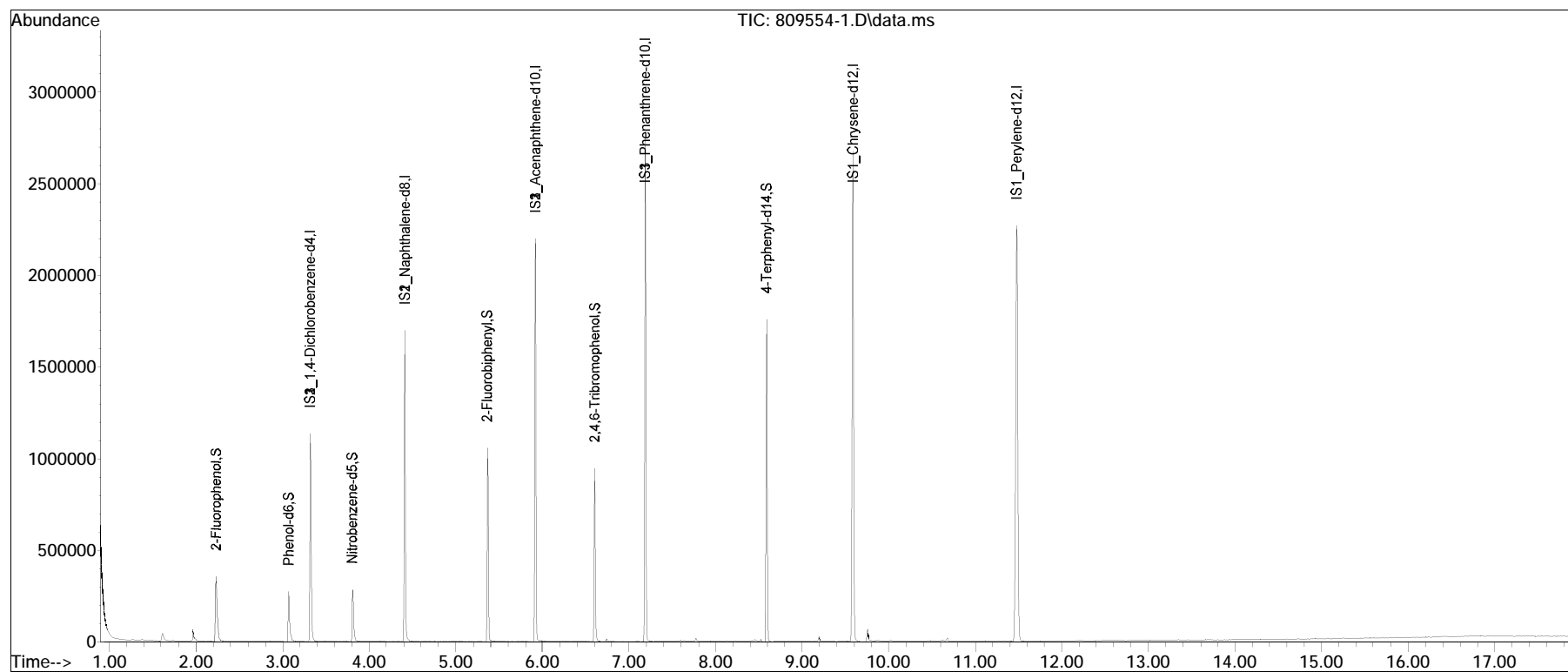
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
Data File : 809554-1.D
Acq On : 2 Aug 2023 1:43 am
Operator : Juliet:mg
Sample : WG1809554-1,32,,ASK
Misc : WG1810591,WG1809554,ical20193
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 22:45:14 2023
Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 02 12:06:53 2023
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MA1n\AP90801n.D•



Manual Integration Report

Data Path	: I:\8270\Juliet\230801n\	QMethod	: FS230721Juliet.m
Data File	: 809554-1.D	Operator	: Juliet:mg
Date Inj'd	: 8/2/2023 1:43 am	Instrument	: Juliet
Sample	: WG1809554-1,32,,ASK	Quant Date	: 8/2/2023 12:11 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\8270\Juliet\230801n\
 Data File : 809554-1.D
 Acq On : 2 Aug 2023 1:43 am
 Operator : Juliet:mg
 Sample : WG1809554-1,32,,ASK
 Misc : WG1810591,WG1809554,ical20193
 ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 809554-1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.616	120	124	134	rBV	39394	63982	1.80%	0.366%
2	1.957	180	182	198	rVB	59785	81620	2.29%	0.466%
3	2.234	226	229	243	rBV	353157	414760	11.65%	2.370%
4	3.069	368	371	386	rBV	271546	305246	8.58%	1.744%
5	3.316	410	413	426	rBV	1132412	1092719	30.70%	6.245%
6	3.804	493	496	509	rBV	283135	314627	8.84%	1.798%
7	4.410	595	599	614	rBV	1699396	1427590	40.11%	8.158%
8	5.363	758	761	765	rBV	1056201	866107	24.34%	4.950%
9	5.922	852	856	859	rBV	2201042	1912884	53.75%	10.932%
10	6.604	968	972	980	rBV	946328	815163	22.90%	4.658%
11	7.186	1068	1071	1075	rBV	2779219	2256639	63.41%	12.896%
12	8.592	1306	1310	1314	rBV	1755580	1391237	39.09%	7.951%
13	9.586	1474	1479	1488	rVB	2671523	2912836	81.85%	16.646%
14	9.757	1503	1508	1514	rBV	62065	84074	2.36%	0.480%
15	11.474	1793	1800	1812	rBV	2264954	3558961	100.00%	20.339%

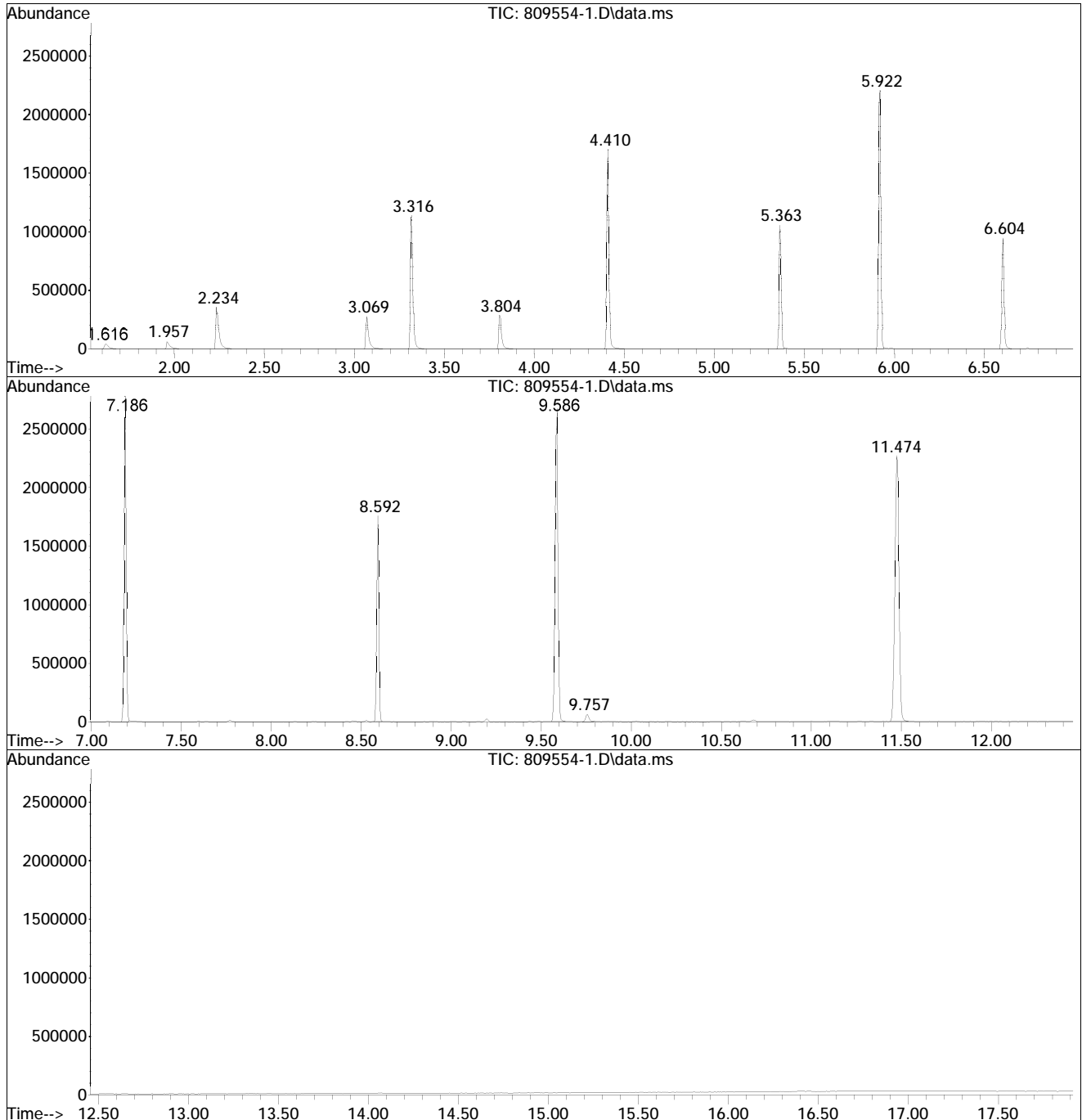
Sum of corrected areas: 17498445

LSC Report - Integrated Chromatogram

Data Path : I:\8270\Juliet\230801n\
Data File : 809554-1.D
Acq On : 2 Aug 2023 1:43 am
Operator : Juliet:mg
Sample : WG1809554-1,32,,ASK
Misc : WG1810591,WG1809554,ical20193
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\8270\Juliet\230801n\
Data File : 809554-1.D
Acq On : 2 Aug 2023 1:43 am
Operator : Juliet:mg
Sample : WG1809554-1,32,,ASK
Misc : WG1810591,WG1809554,ical20193
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\Juliet\230801n\
Data File : 809554-1.D
Acq On : 2 Aug 2023 1:43 am
Operator : Juliet:mg
Sample : WG1809554-1,32,,ASK
Misc : WG1810591,WG1809554,ical20193
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
 Data File : 809554-2.D
 Acq On : 2 Aug 2023 2:06 am
 Operator : Juliet:mg
 Sample : WG1809554-2,32,,ASK
 Misc : WG1810591,WG1809554,ical20193
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 03 22:45:59 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:53 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230801n\ABN0801n.D
 : 2 - I:\8270\Juliet\230801n\ADP0801n.D
 : 3 - I:\8270\Juliet\230801n\AP90801n.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.316	152	209094	40.000	ug/ml	0.00
Standard Area 1 = 216721			Recovery =	96.48%		
27) IS2_1,4-Dichlorobenzen...	3.316	152	209094	40.000	ug/ml	0.00
Standard Area 3 = 242524			Recovery =	86.22%		
32) IS3_1,4-Dichlorobenzen...	3.316	152	209094	40.000	ug/ml	0.00
Standard Area 2 = 233446			Recovery =	89.57%		
35) IS1_Naphthalene-d8	4.410	136	754589	40.000	ug/ml	# 0.00
Standard Area 1 = 758234			Recovery =	99.52%		
55) IS2_Naphthalene-d8	4.410	136	754589	40.000	ug/ml	# 0.00
Standard Area 3 = 843065			Recovery =	89.51%		
63) IS1_Acenaphthene-d10	5.922	164	443939	40.000	ug/ml	0.00
Standard Area 1 = 451048			Recovery =	98.42%		
83) IS2_Acenaphthene-d10	5.922	164	443939	40.000	ug/ml	0.00
Standard Area 3 = 502187			Recovery =	88.40%		
86) IS3_Acenaphthene-d10	5.922	164	443939	40.000	ug/ml	0.00
Standard Area 2 = 513461			Recovery =	86.46%		
88) IS1_Phenanthrene-d10	7.192	188	971899	40.000	ug/ml	# 0.00
Standard Area 1 = 1011690			Recovery =	96.07%		
100) IS3_Phenanthrene-d10	7.192	188	971899	40.000	ug/ml	# 0.00
Standard Area 2 = 1127462			Recovery =	86.20%		
104) IS1_Chrysene-d12	9.586	240	1025382	40.000	ug/ml	# 0.00
Standard Area 1 = 1043233			Recovery =	98.29%		
113) IS1_Perylene-d12	11.480	264	1174566	40.000	ug/ml	0.00
Standard Area 1 = 1222692			Recovery =	96.06%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.240	112	152175	28.874	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	57.75%	
7) Phenol-d6	3.069	99	126197	18.702	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	37.40%	
19) Nitrobenzene-d5	3.804	82	109029	17.984	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	71.94%	
46) 2-Fluorobiphenyl	5.363	172	316064	19.928	ug/ml	0.00
Spiked Amount 25.000			Range 30 - 130	Recovery =	79.71%	
79) 2,4,6-Tribromophenol	6.604	330	113162	44.424	ug/ml	0.00
Spiked Amount 50.000			Range 15 - 110	Recovery =	88.85%	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
 Data File : 809554-2.D
 Acq On : 2 Aug 2023 2:06 am
 Operator : Juliet:mg
 Sample : WG1809554-2,32,,ASK
 Misc : WG1810591,WG1809554,ical20193
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 03 22:45:59 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:53 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230801n\ABN0801n.D
 : 2 - I:\8270\Juliet\230801n\ADP0801n.D
 : 3 - I:\8270\Juliet\230801n\AP90801n.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	8.592	244	502748	21.239	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	84.96%
Target Compounds						Qvalue
6) 2-Chlorophenol	3.145	128	192658	29.519	ug/ml	93
8) Phenol	3.081	94	95183	12.624	ug/ml#	73
9) Bis(2-chloroethyl)ether	3.122	93	131657	26.228	ug/ml	87
14) Bis(2-chloroisopropyl)...	3.587	45	142247	23.239	ug/ml#	67
15) 2-Methylphenol	3.598	108	136884	25.725	ug/ml	97
17) n-Nitrosodi-n-propylamine	3.698	70	105891	26.848	ug/ml	97
18) 3-Methylphenol/4-Methy...	3.734	108	150302	26.729	ug/ml	86
20) Nitrobenzene	3.822	77	156739	26.662	ug/ml	98
21) Isophorone	4.034	82	296234	26.381	ug/ml	97
22) 2-Nitrophenol	4.098	139	104609	29.352	ug/ml	93
23) 2,4-Dimethylphenol	4.181	107	167638	27.490	ug/ml	97
24) Bis(2-chloroethoxy)met...	4.251	93	179023	27.148	ug/ml	99
25) 2,4-Dichlorophenol	4.322	162	189484	31.317	ug/ml#	94
28) Benzaldehyde	2.945	105	141847	38.253	ug/ml	90
29) Acetophenone	3.681	105	245340	31.135	ug/ml	94
38) 4-Chloroaniline	4.504	65	39626M3	21.043	ug/ml	
40) p-Chloro-m-cresol	4.963	107	161539	30.326	ug/ml	97
43) Hexachlorocyclopentadiene	5.181	237	53267	17.313	ug/ml	97
44) 2,4,6-Trichlorophenol	5.298	196	144080	31.452	ug/ml	99
45) 2,4,5-Trichlorophenol	5.334	196	164920	33.031	ug/ml	97
48) 2-Nitroaniline	5.557	138	133703	30.072	ug/ml	89
51) Dimethyl phthalate	5.739	163	494499	30.106	ug/ml	100
53) 2,6-Dinitrotoluene	5.781	165	105521	30.966	ug/ml#	66
60) Caprolactam	4.798	55	19931	9.696	ug/ml#	84
61) 1,2,4,5-Tetrachloroben...	5.186	216	228322	33.102	ug/ml	98
62) Biphenyl	5.445	154	486655	31.660	ug/ml	99
64) 3-Nitroaniline	5.916	138	100337	25.828	ug/ml#	91
66) 2,4-Dinitrophenol	6.028	184	61570	30.049	ug/ml#	89
67) Dibenzofuran	6.098	168	600870	31.721	ug/ml#	73
68) 2,4-Dinitrotoluene	6.133	165	147026	31.603	ug/ml#	76
69) 4-Nitrophenol	6.122	65	40168	16.977	ug/ml#	1
71) 2,3,4,6-Tetrachlorophenol	6.228	232	134713	32.570	ug/ml	99
72) Diethyl phthalate	6.351	149	508207	32.071	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
 Data File : 809554-2.D
 Acq On : 2 Aug 2023 2:06 am
 Operator : Juliet:mg
 Sample : WG1809554-2,32,,ASK
 Misc : WG1810591,WG1809554,ical20193
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 03 22:45:59 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:53 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230801n\ABN0801n.D
 : 2 - I:\8270\Juliet\230801n\ADP0801n.D
 : 3 - I:\8270\Juliet\230801n\AP90801n.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Chlorophenyl phenyl ...	6.416	204	239388	32.199	ug/ml	93
75) 4-Nitroaniline	6.445	138	110526	30.373	ug/ml#	76
76) 4,6-Dinitro-o-cresol	6.486	198	91318	33.070	ug/ml#	85
77) NDPA/DPA	6.522	169	412889	31.620	ug/ml	99
80) 4-Bromophenyl phenyl e...	6.828	248	157116	32.338	ug/ml	97
87) Atrazine	7.016	200	145660	30.511	ug/ml	98
91) Carbazole	7.410	167	731905	31.417	ug/ml	99
92) Di-n-butylphthalate	7.769	149	932198	32.889	ug/ml	98
97) Butyl benzyl phthalate	9.074	149	455725	32.348	ug/ml	93
106) 3,3'-Dichlorobenzidine	9.592	252	338112	25.003	ug/ml	98
108) Bis(2-ethylhexyl)phtha...	9.751	149	638047	33.184	ug/ml	99
109) Di-n-octylphthalate	10.616	149	1200773	33.316	ug/ml#	94

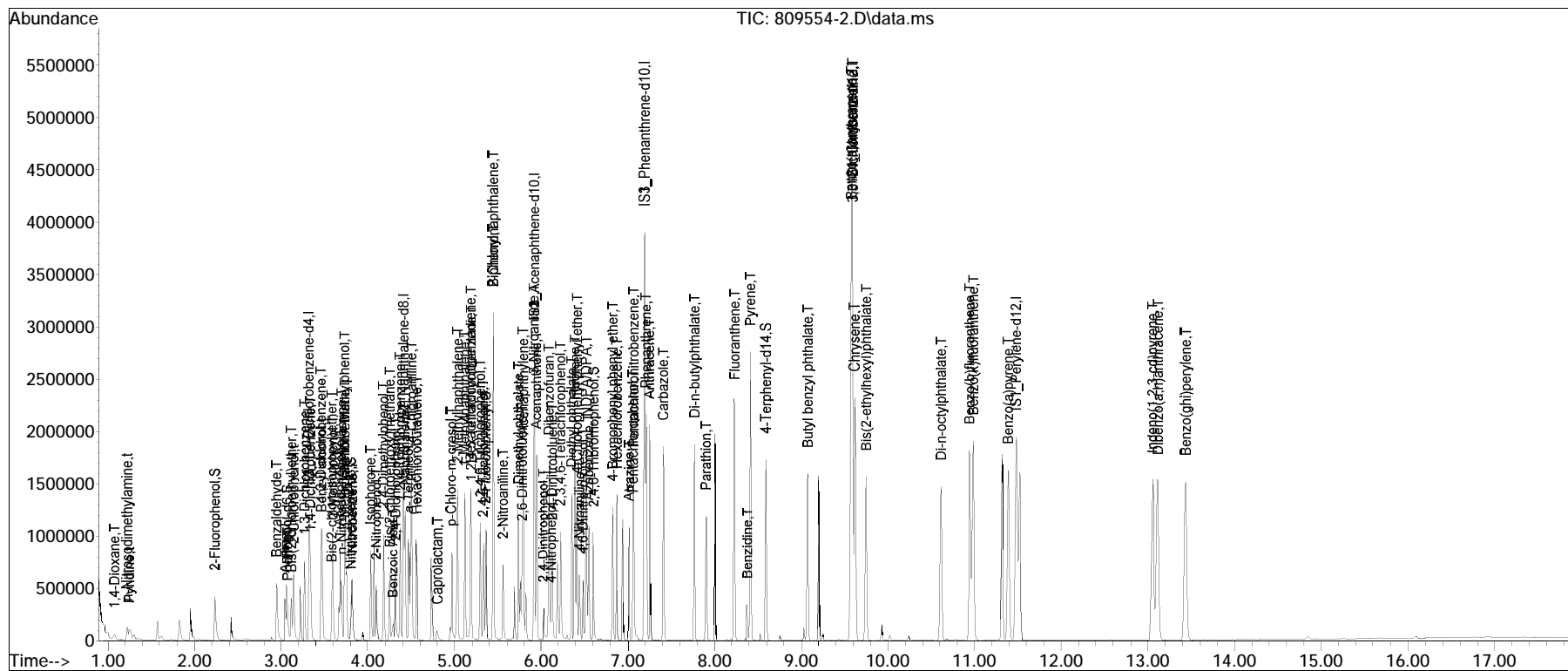
(#) = qualifier out of range (m) = manual integration (+) = signals summed

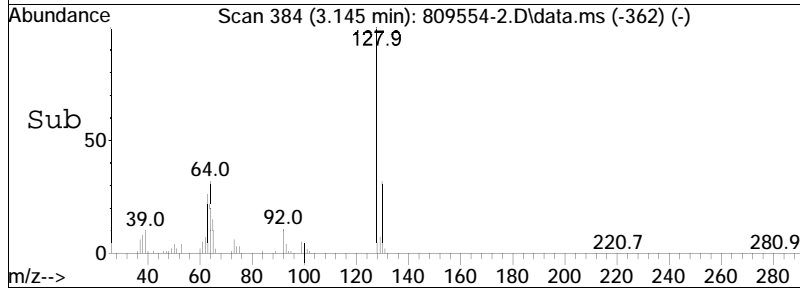
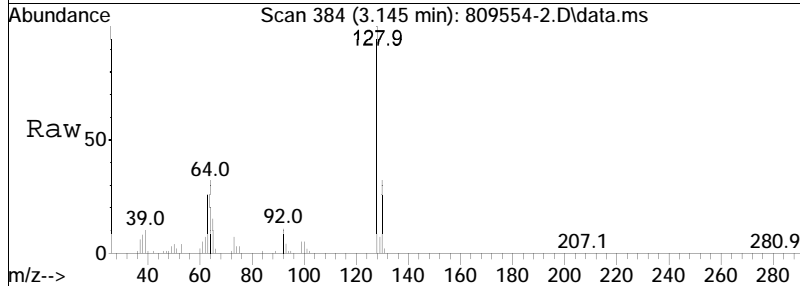
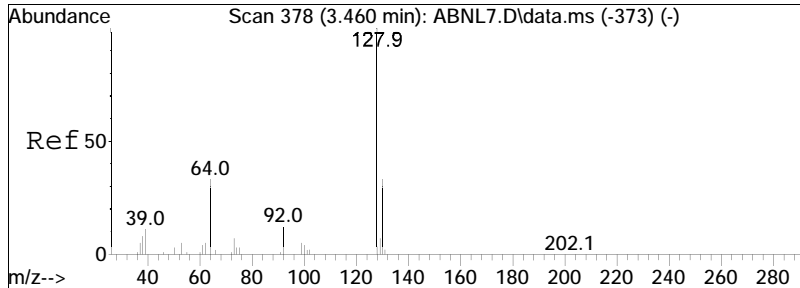
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
 Data File : 809554-2.D
 Acq On : 2 Aug 2023 2:06 am
 Operator : Juliet:mg
 Sample : WG1809554-2,32,,ASK
 Misc : WG1810591,WG1809554,ical20193
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 03 22:45:59 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:53 2023
 Response via : Initial Calibration

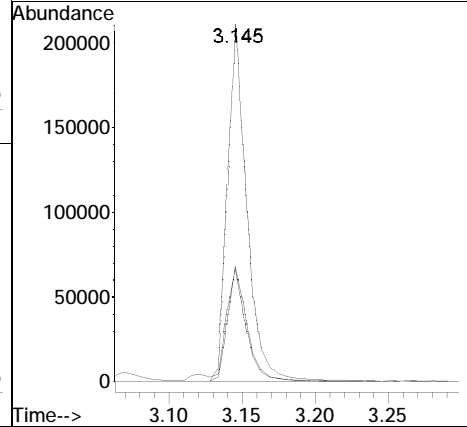
Sub List : 8270TCL_REV2 - TCL/CT/MA1n\AP90801n.D

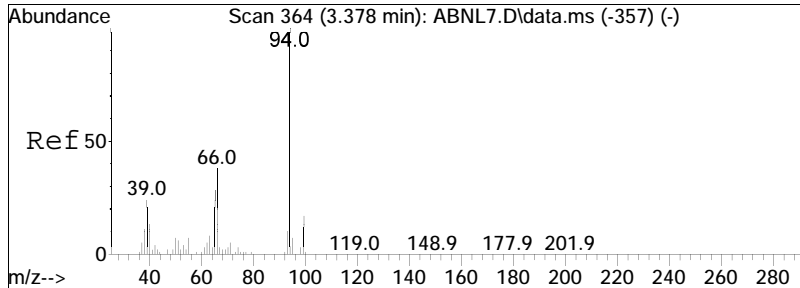




#6
 2-Chlorophenol
 Concen: 29.52 ug/ml
 RT: 3.145 min Scan# 384
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

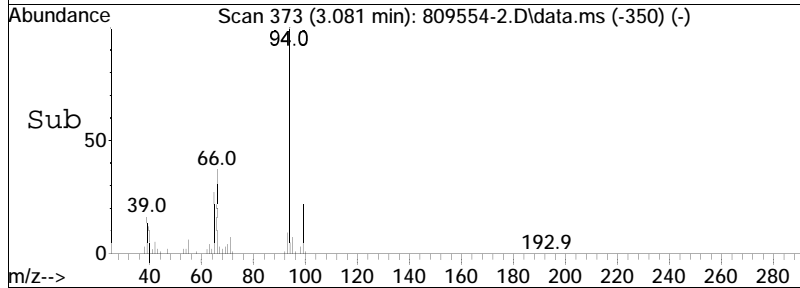
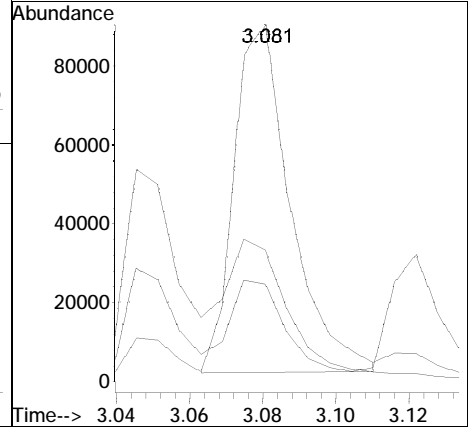
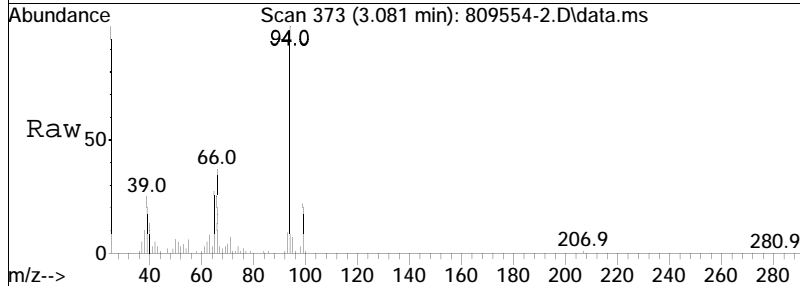
Tgt Ion	Resp	Lower	Upper
128	192658		
128	100		
64	34.1	33.4	50.0
130	32.6	26.2	39.2

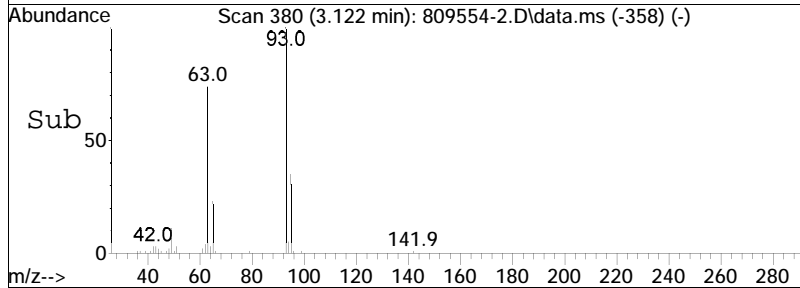
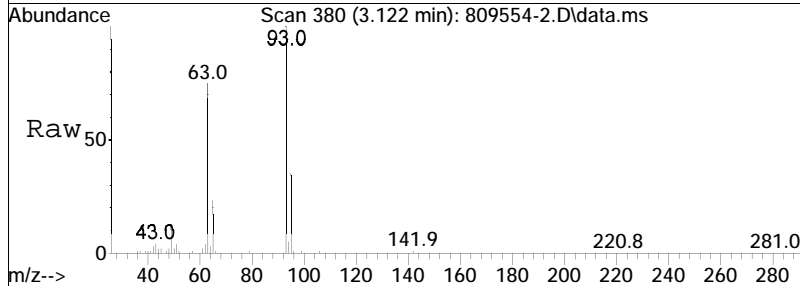
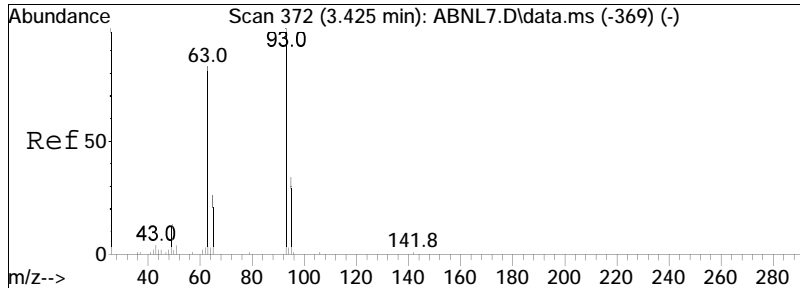




#8
 Phenol
 Concen: 12.62 ug/ml
 RT: 3.081 min Scan# 373
 Delta R.T. 0.009 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

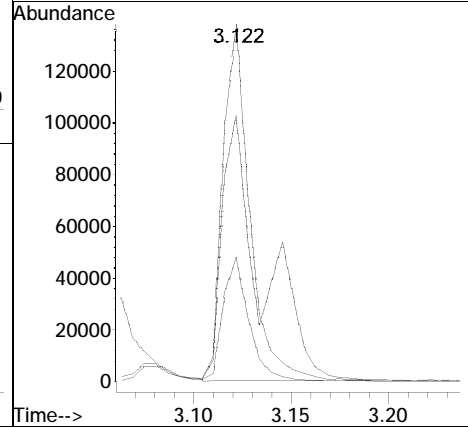
Tgt Ion	Ratio	Lower	Upper
94	100		
65	30.2	19.4	29.0#
66	48.5	60.4	90.6#

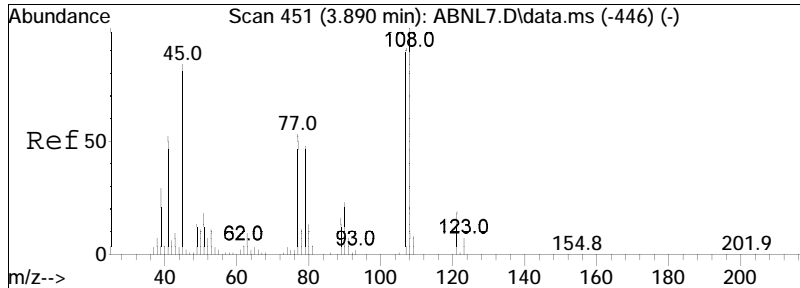




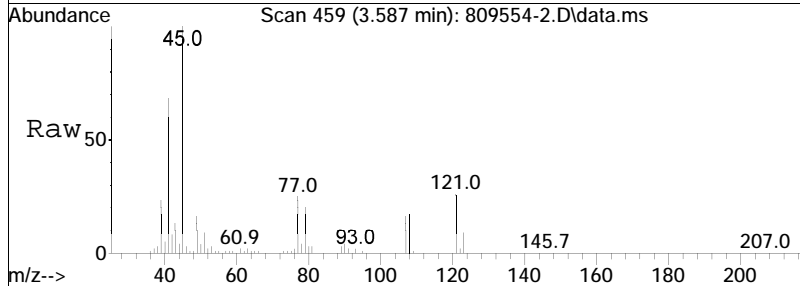
#9
 Bis(2-chloroethyl)ether
 Concen: 26.23 ug/ml
 RT: 3.122 min Scan# 380
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
93	100		
63	71.7	70.4	105.6
95	34.1	26.6	39.8

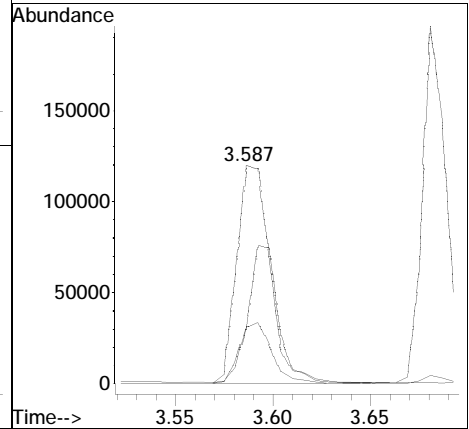
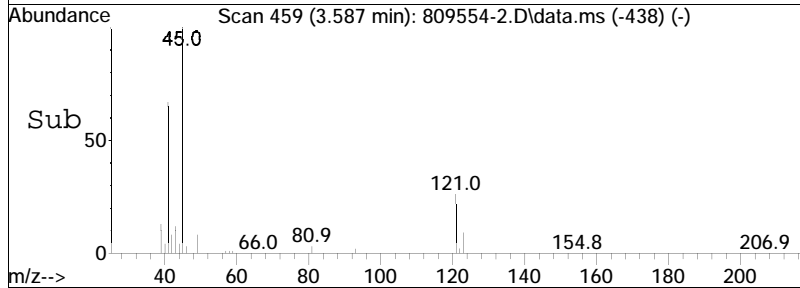


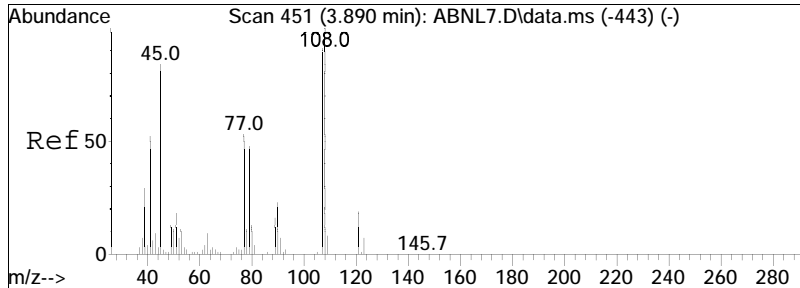


#14
 Bis(2-chloroisopropyl) ether
 Concen: 23.24 ug/ml
 RT: 3.587 min Scan# 459
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am



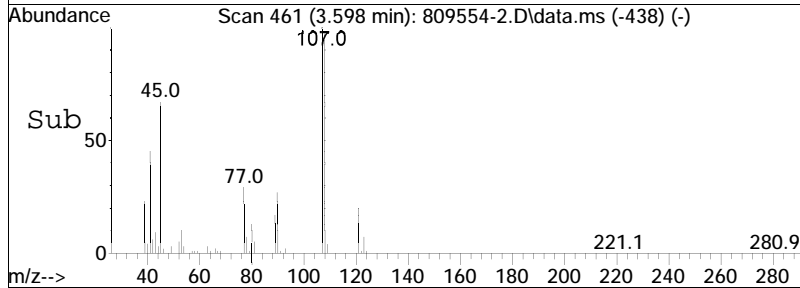
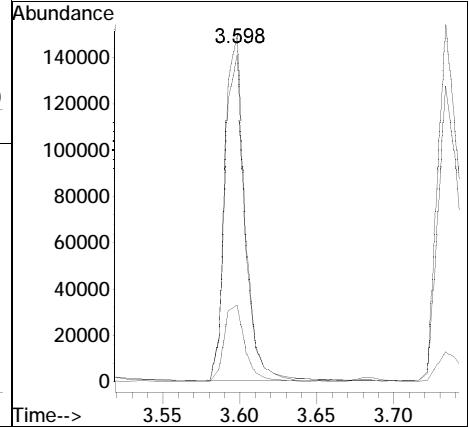
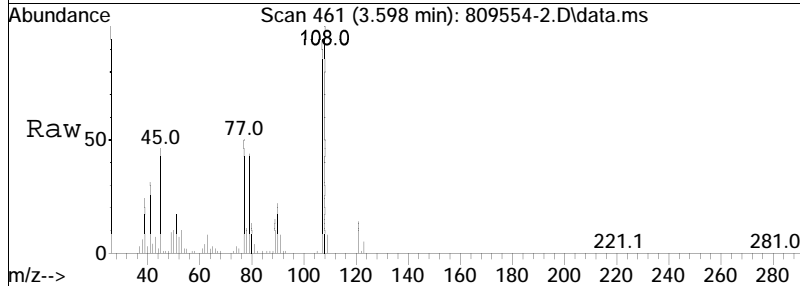
Tgt Ion:	45	Resp:	142247
Ion Ratio	Lower	Upper	
45	100		
121	27.2	13.7	20.5#
77	57.4	28.2	42.2#

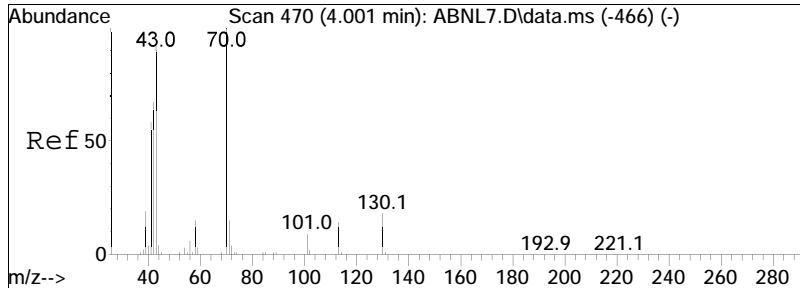




#15
 2-Methylphenol
 Concen: 25.72 ug/ml
 RT: 3.598 min Scan# 461
 Delta R.T. 0.009 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

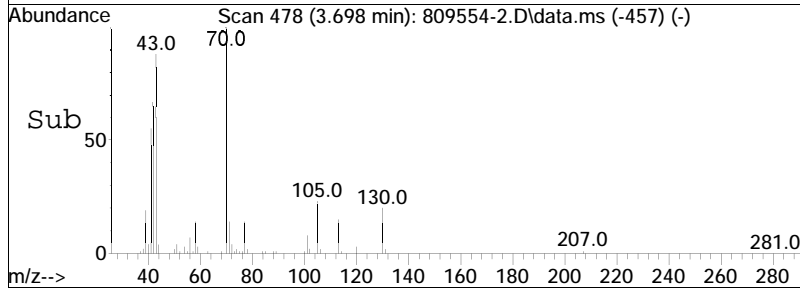
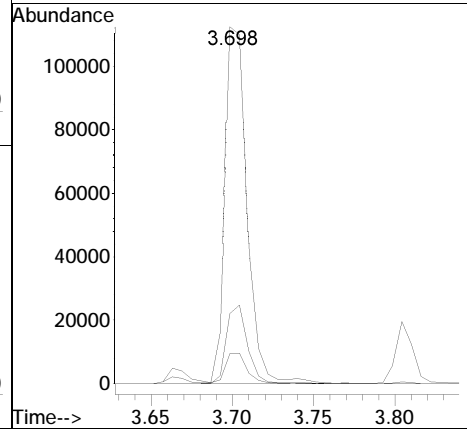
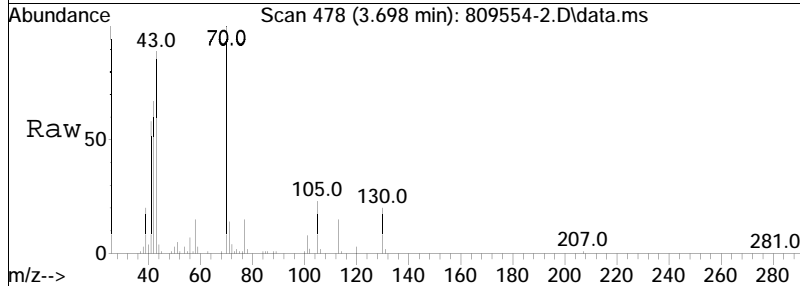
Tgt Ion	Resp	Lower	Upper
108	136884		
108	100		
107	93.7	72.6	108.8
90	22.7	18.6	27.8

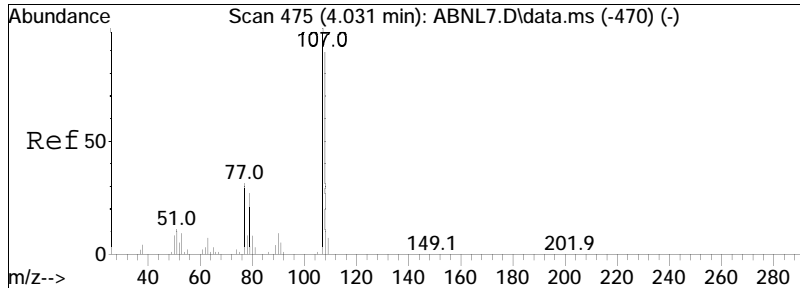




#17
 n-Nitrosodi-n-propylamine
 Concen: 26.85 ug/ml
 RT: 3.698 min Scan# 478
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

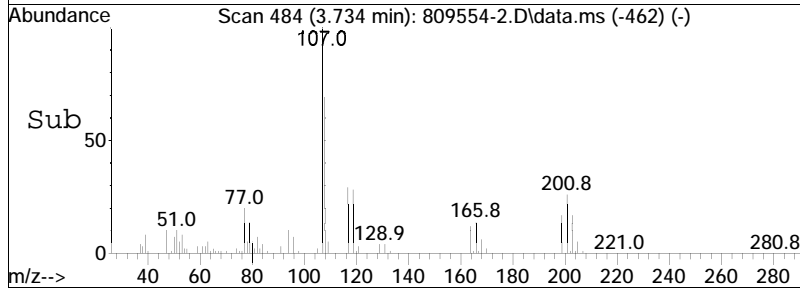
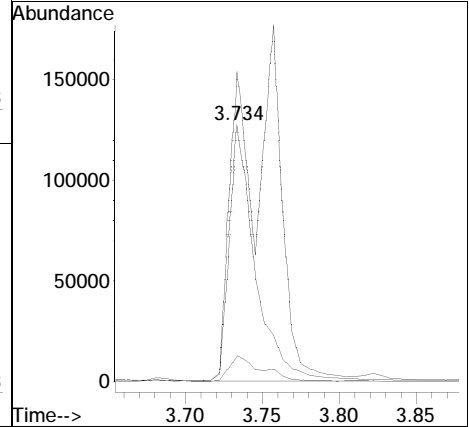
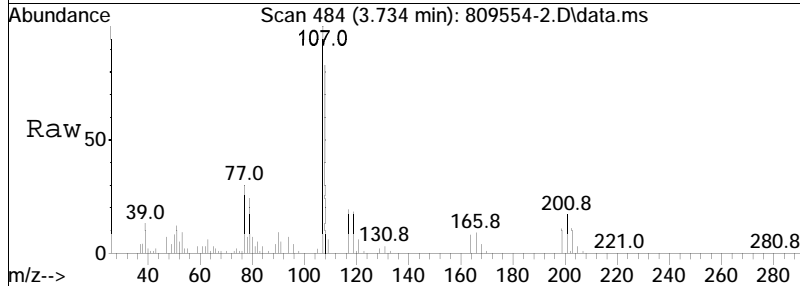
Tgt Ion	Resp	Lower	Upper
70	105891		
130	21.3	15.7	23.5
101	8.4	6.7	10.1

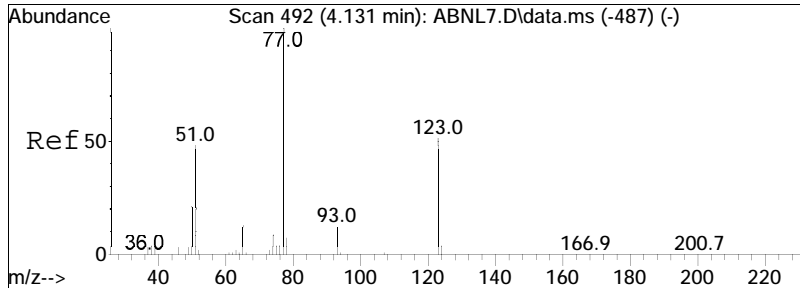




#18
 3-Methylphenol/4-Methylphenol
 Concen: 26.73 ug/ml
 RT: 3.734 min Scan# 484
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

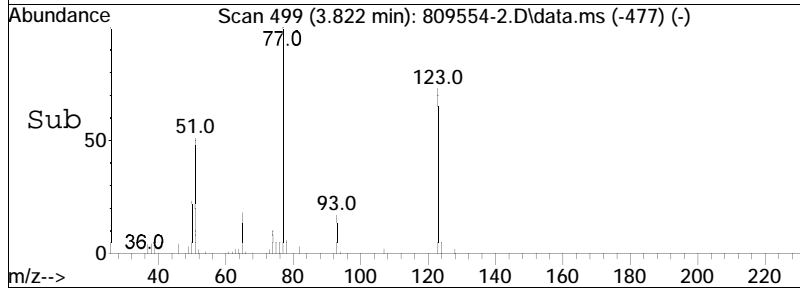
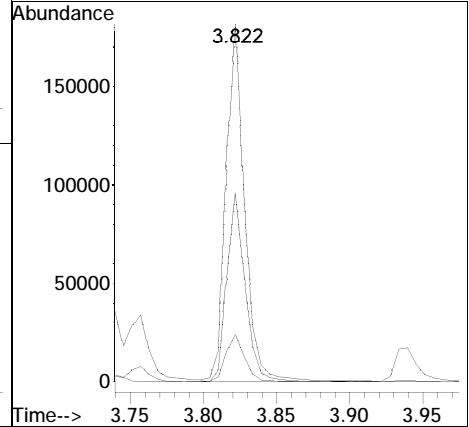
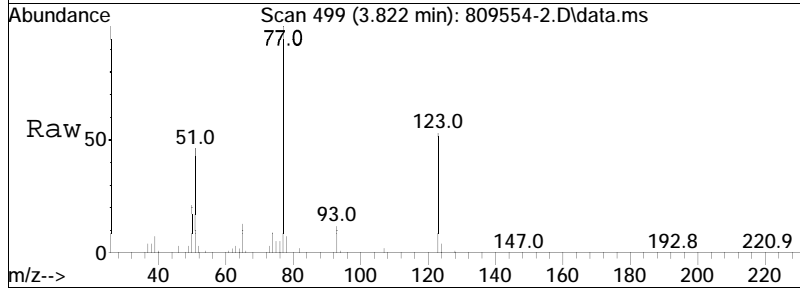
Tgt Ion	Ratio	Lower	Upper
108	100		
107	97.0	90.7	136.1
90	12.5	8.6	13.0

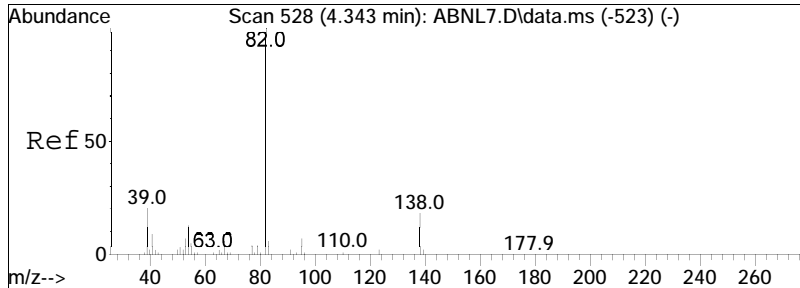




#20
 Nitrobenzene
 Concen: 26.66 ug/ml
 RT: 3.822 min Scan# 499
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

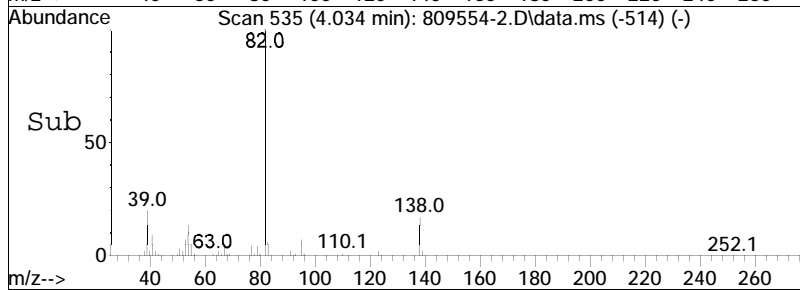
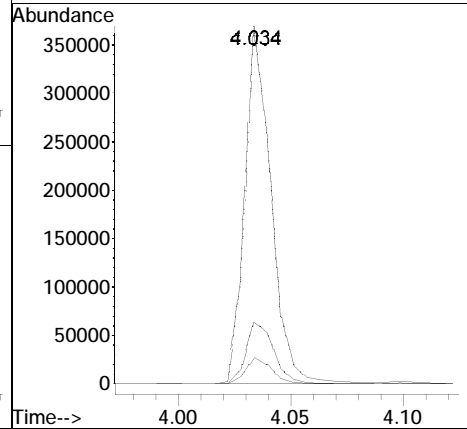
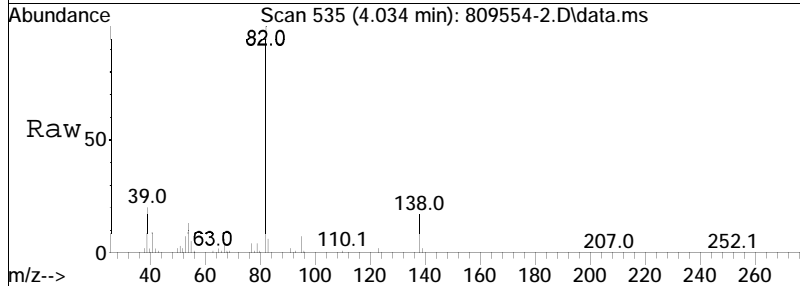
Tgt Ion	Resp	Lower	Upper
77	156739		
123	53.5	41.4	62.0
65	14.1	11.0	16.4

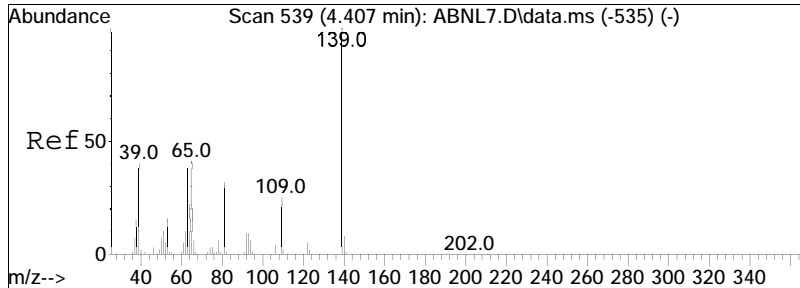




#21
 Isophorone
 Concen: 26.38 ug/ml
 RT: 4.034 min Scan# 535
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

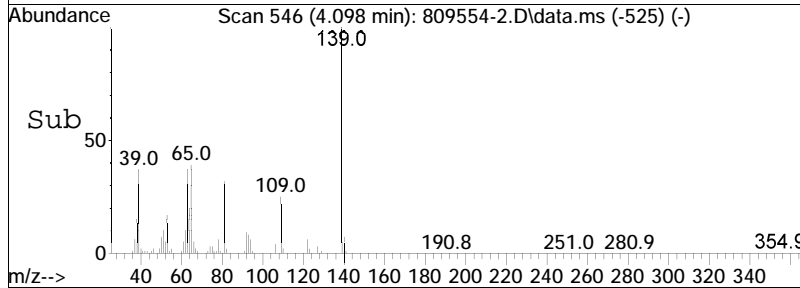
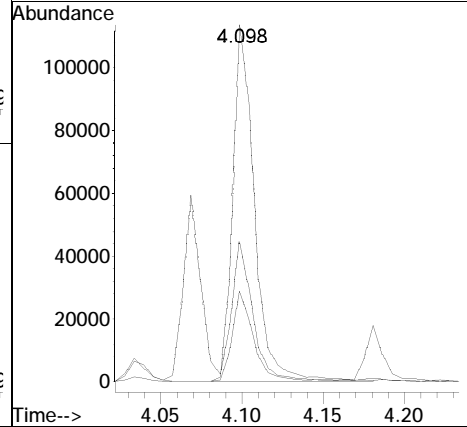
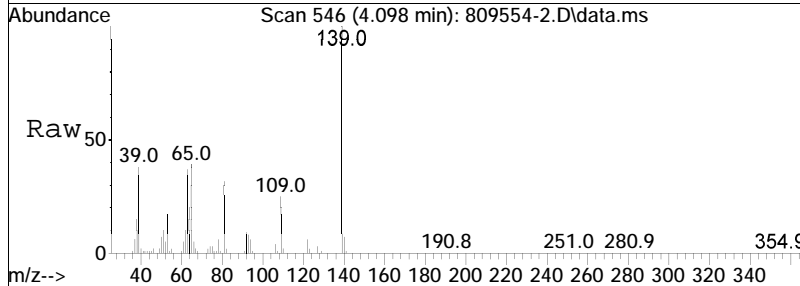
Tgt Ion	Resp	Lower	Upper
82	100		
138	18.5	13.9	20.9
95	7.5	5.3	7.9

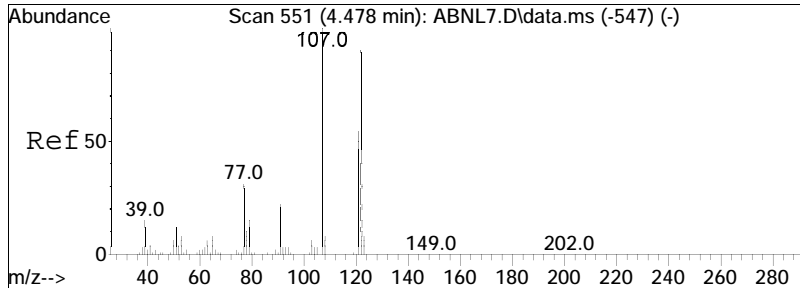




#22
 2-Nitrophenol
 Concen: 29.35 ug/ml
 RT: 4.098 min Scan# 546
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

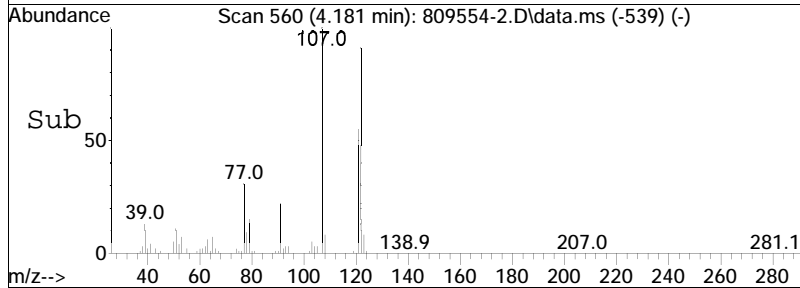
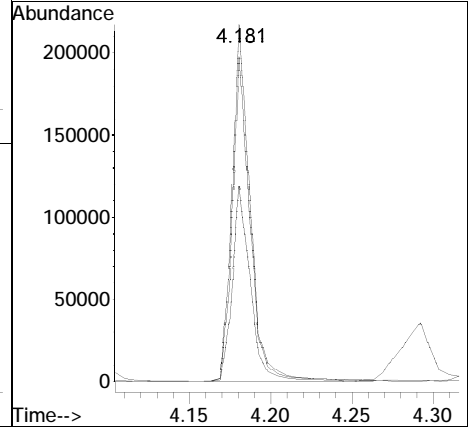
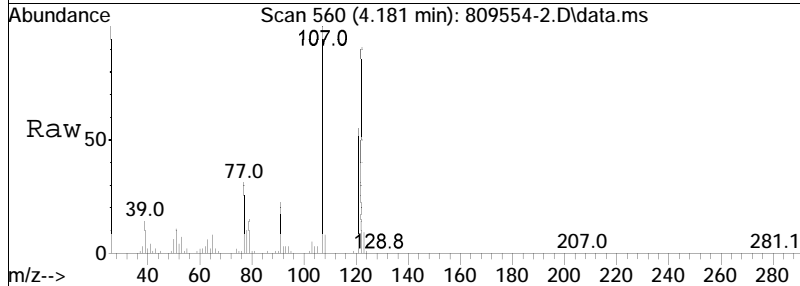
Tgt Ion	Resp	Lower	Upper
139	104609		
109	25.1	17.5	26.3
65	37.0	33.2	49.8

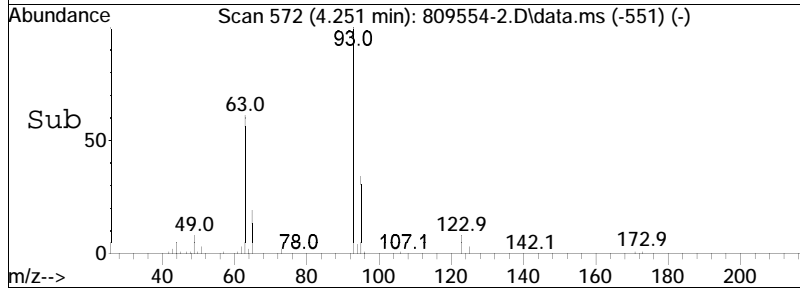
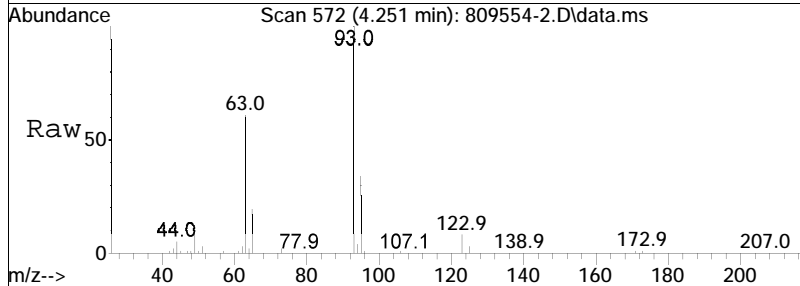
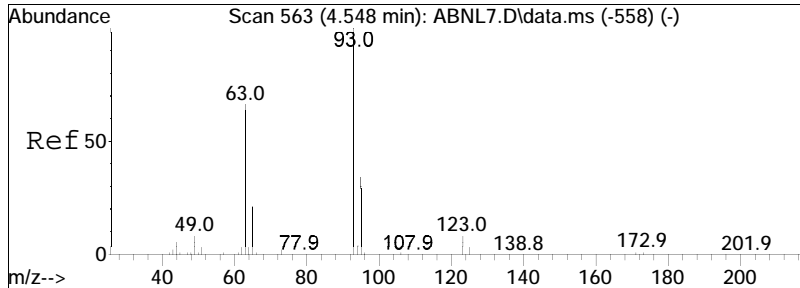




#23
 2,4-Dimethylphenol
 Concen: 27.49 ug/ml
 RT: 4.181 min Scan# 560
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

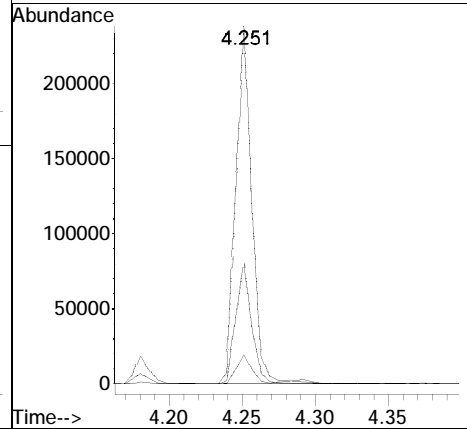
Tgt Ion	Resp	Lower	Upper
107	100		
121	54.8	43.4	65.2
122	87.9	73.7	110.5

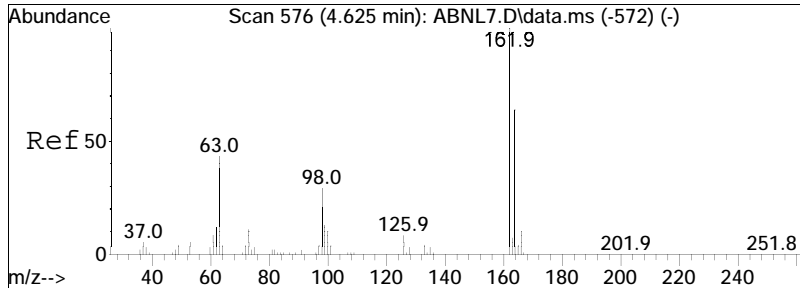




#24
 Bis(2-chloroethoxy)methane
 Concen: 27.15 ug/ml
 RT: 4.251 min Scan# 572
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

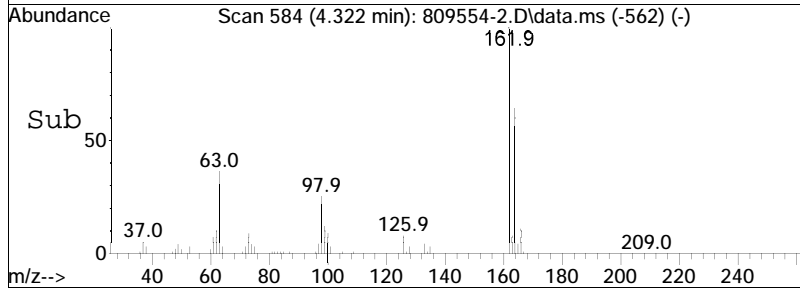
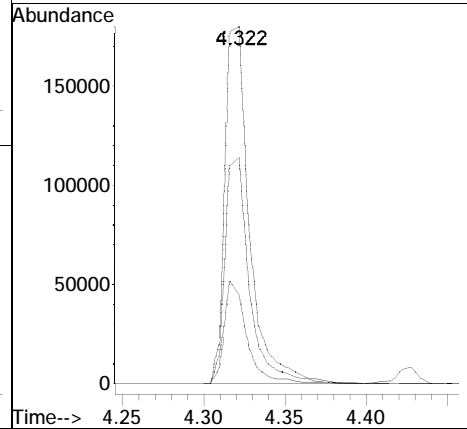
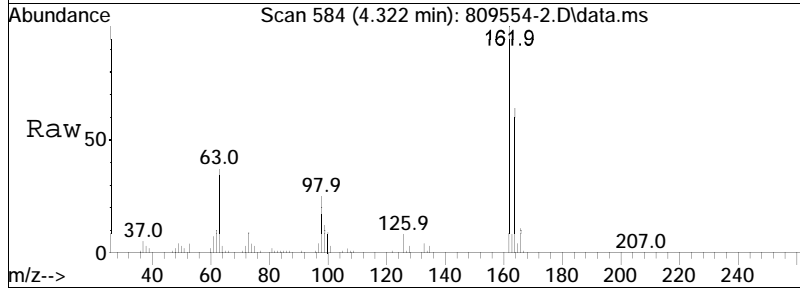
Tgt Ion:	93	Resp:	179023
Ion Ratio	Lower	Upper	
93	100		
95	34.0	27.2	40.8
123	8.1	7.6	11.4

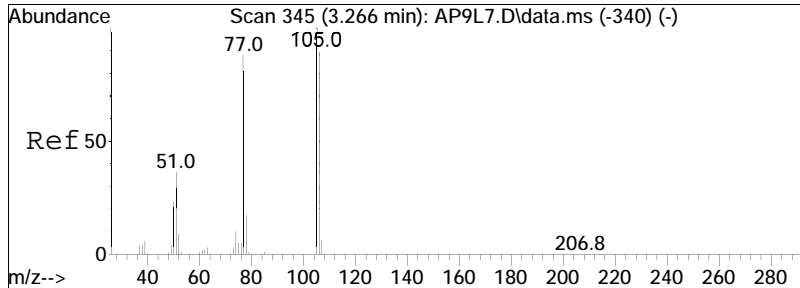




#25
 2,4-Dichlorophenol
 Concen: 31.32 ug/ml
 RT: 4.322 min Scan# 584
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

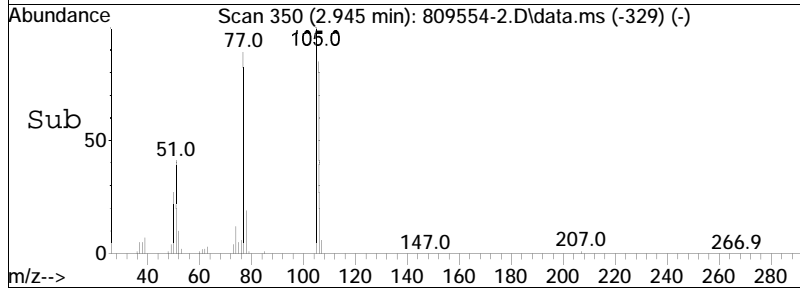
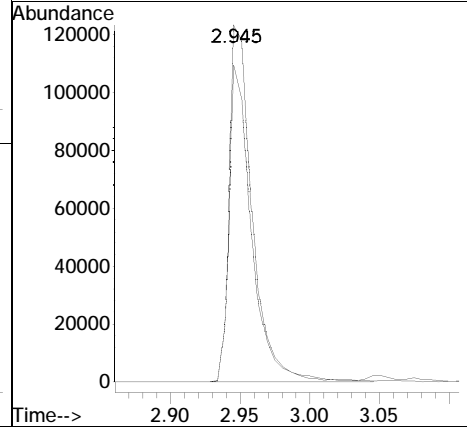
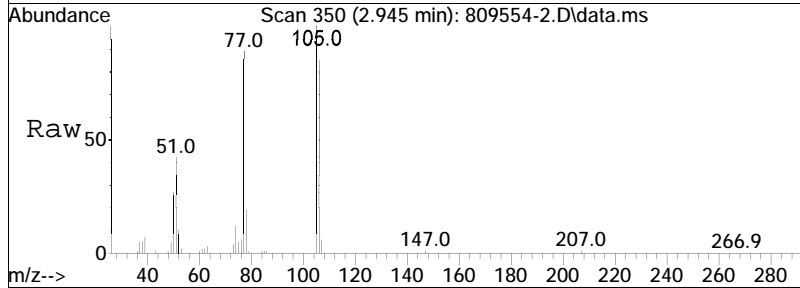
Tgt Ion	Ratio	Lower	Upper
162	100		
164	63.1	51.5	77.3
98	26.9	27.5	41.3#

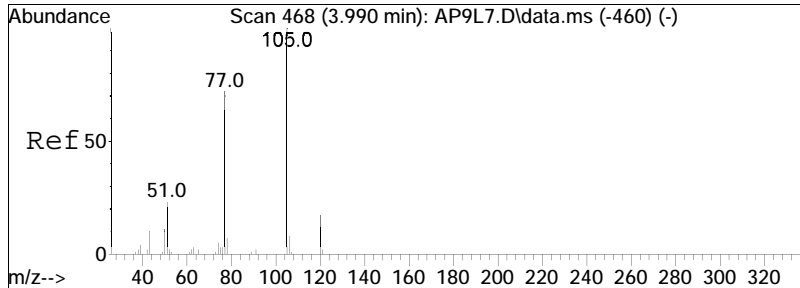




#28
 Benzaldehyde
 Concen: 38.25 ug/ml
 RT: 2.945 min Scan# 350
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

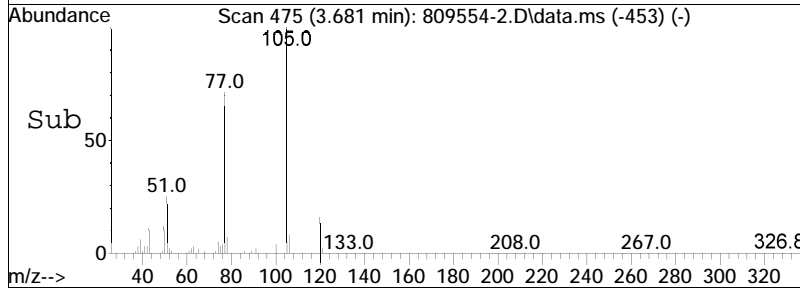
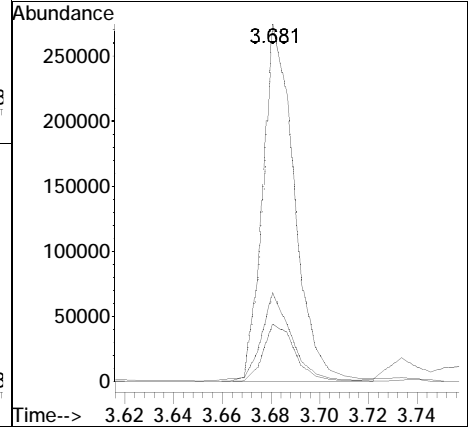
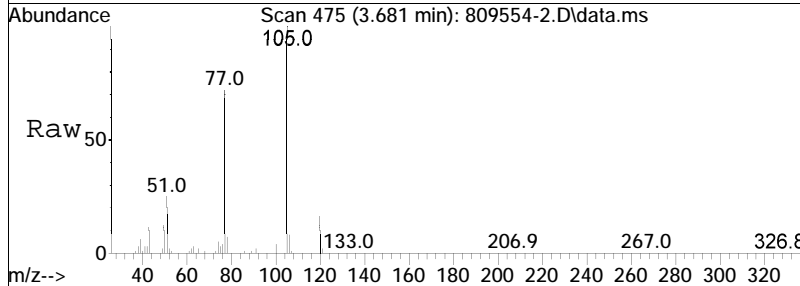
Tgt Ion	105	Resp	141847
Ion Ratio	Lower	Upper	
105	100		
77	86.2	76.4	114.6

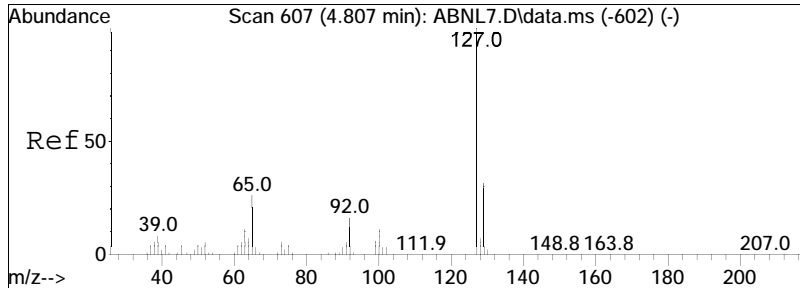




#29
 Acetophenone
 Concen: 31.14 ug/ml
 RT: 3.681 min Scan# 475
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

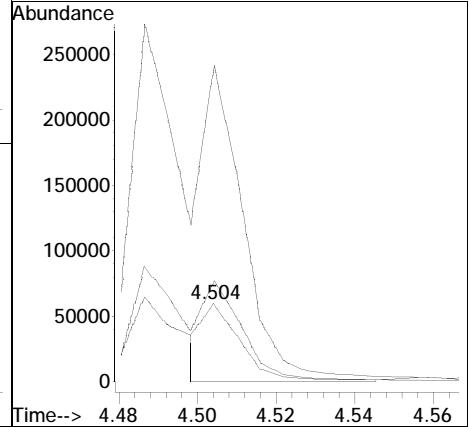
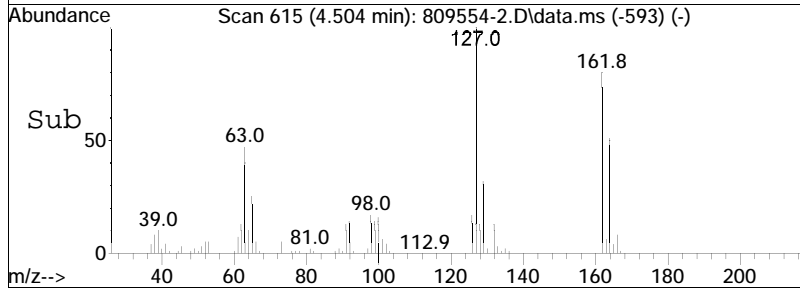
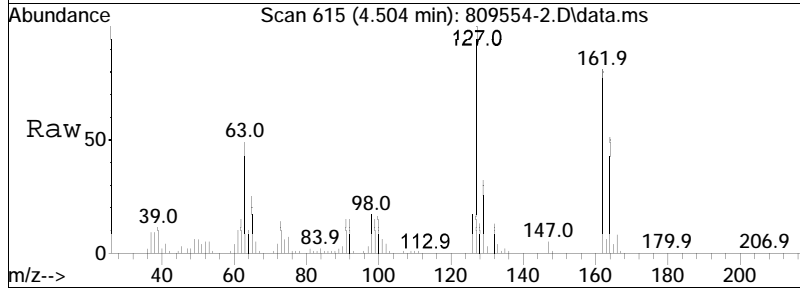
Tgt Ion	Ratio	Lower	Upper
105	100		
120	16.2	14.5	21.7
51	23.7	22.2	33.4

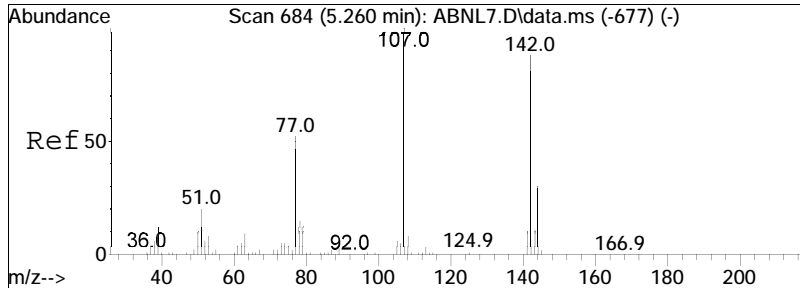




#38
 4-Chloroaniline
 Concen: 21.04 ug/ml M3
 RT: 4.504 min Scan# 615
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

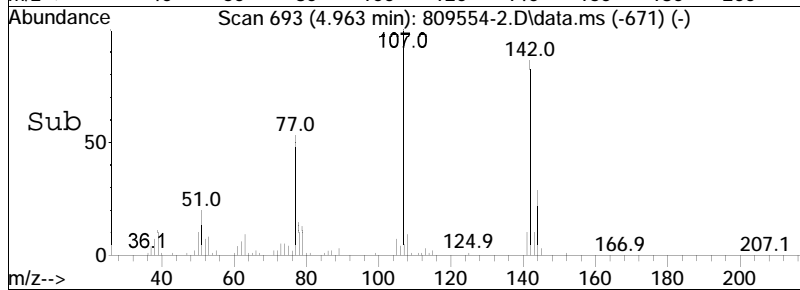
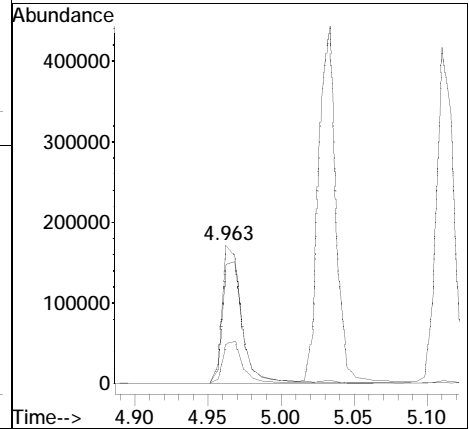
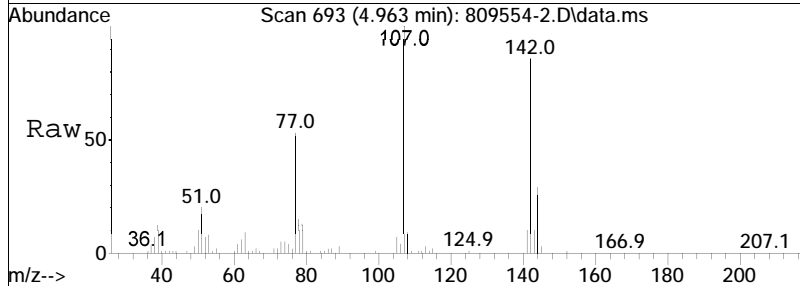
Tgt Ion:	Resp:	Lower	Upper
65	100		
127	591.1	303.0	454.6#
129	188.0	99.3	148.9#

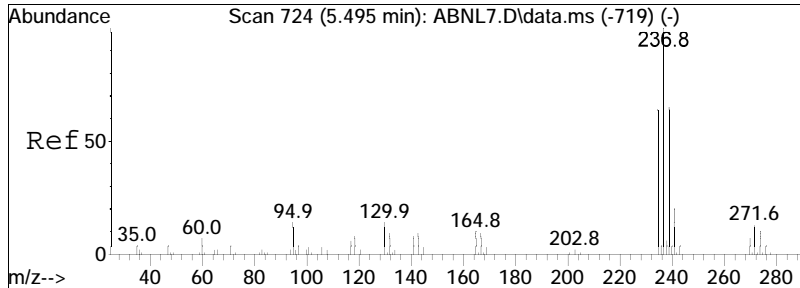




#40
 p-Chloro-m-cresol
 Concen: 30.33 ug/ml
 RT: 4.963 min Scan# 693
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

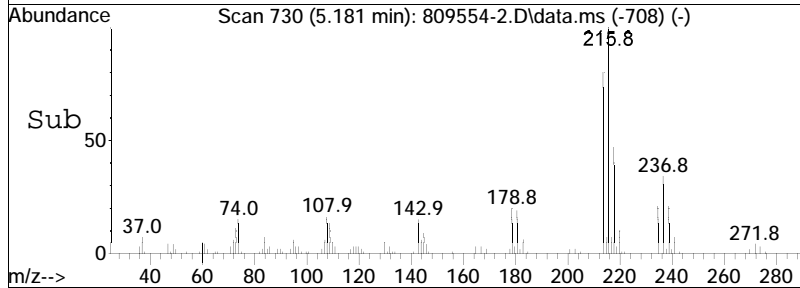
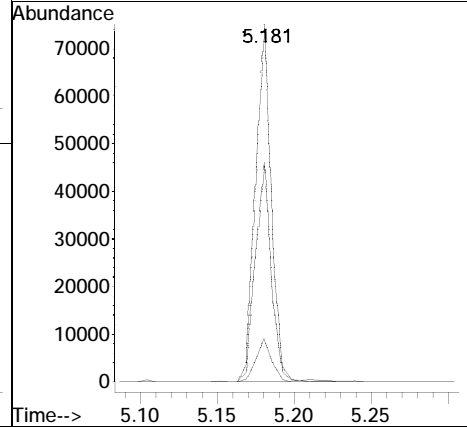
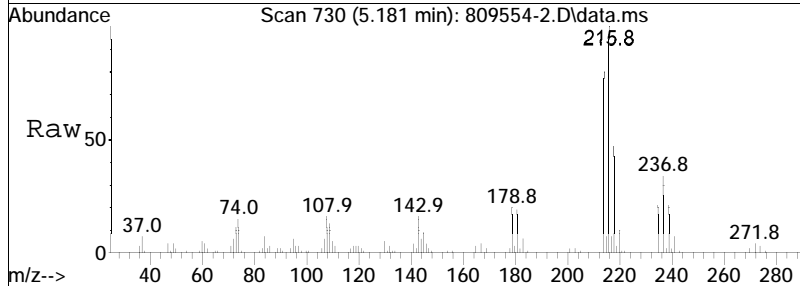
Tgt Ion	Resp	Lower	Upper
107	100		
144	30.6	22.6	33.8
142	89.2	69.7	104.5

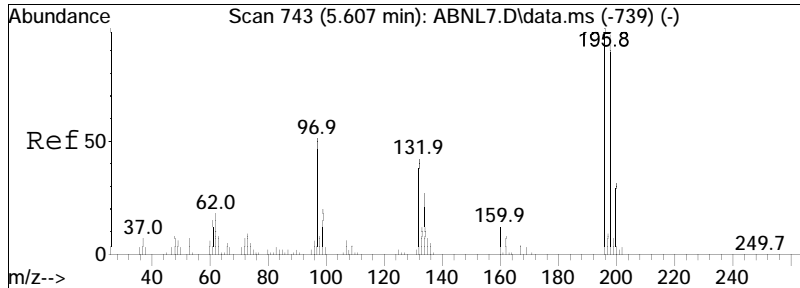




#43
 Hexachlorocyclopentadiene
 Concen: 17.31 ug/ml
 RT: 5.181 min Scan# 730
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

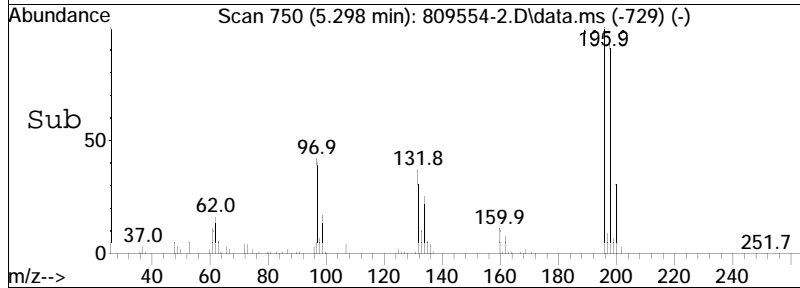
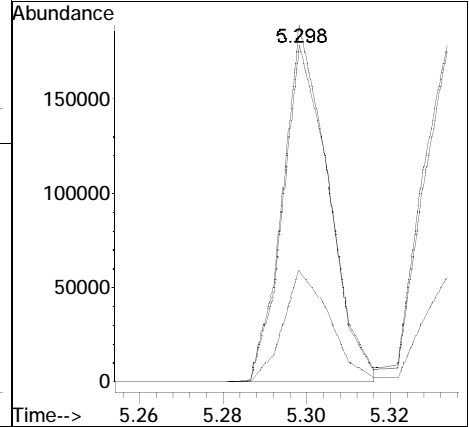
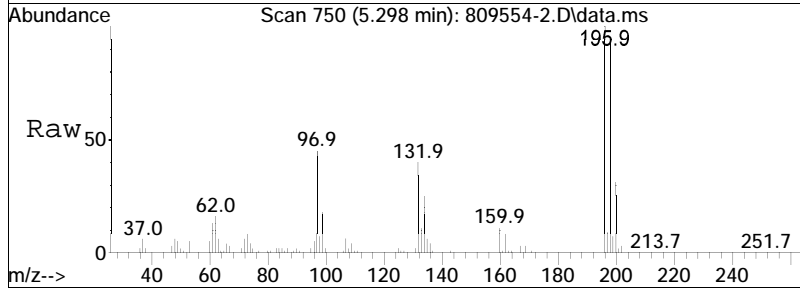
Tgt Ion	Resp	Lower	Upper
237	100		
235	61.3	50.8	76.2
272	11.9	10.4	15.6

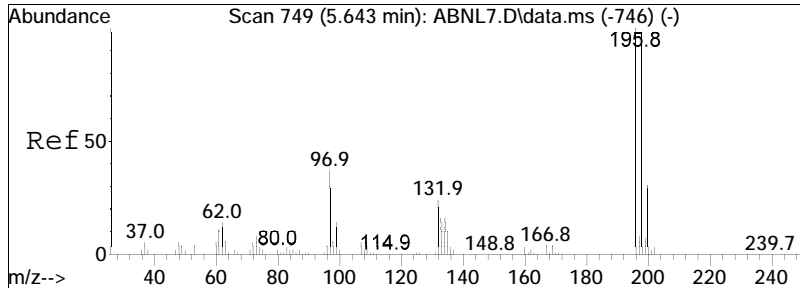




#44
 2,4,6-Trichlorophenol
 Concen: 31.45 ug/ml
 RT: 5.298 min Scan# 750
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

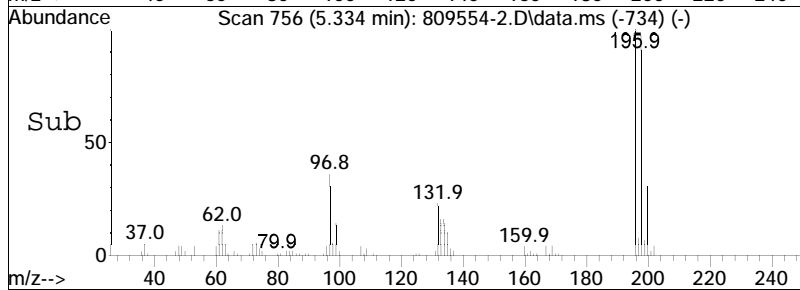
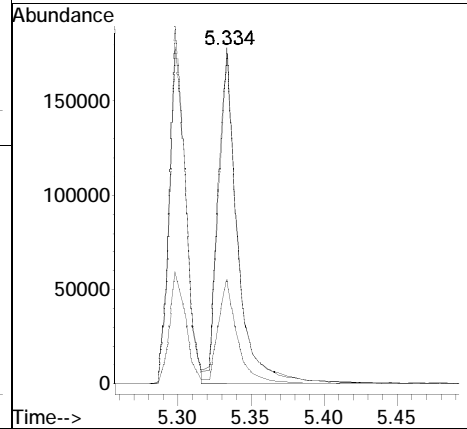
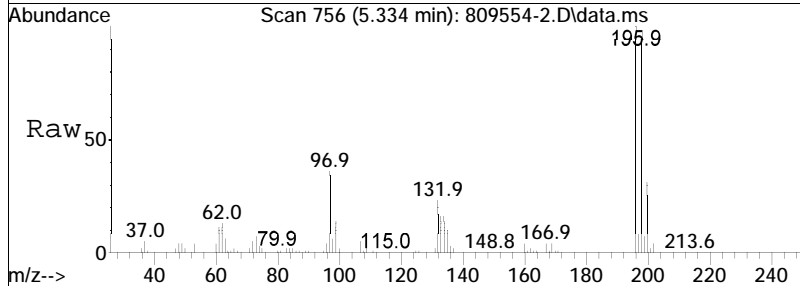
Tgt Ion	Resp	Lower	Upper
196	100		
198	95.4	76.8	115.2
200	32.4	25.0	37.4

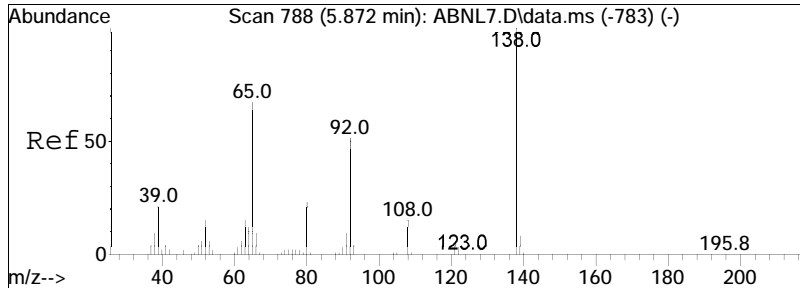




#45
 2,4,5-Trichlorophenol
 Concen: 33.03 ug/ml
 RT: 5.334 min Scan# 756
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

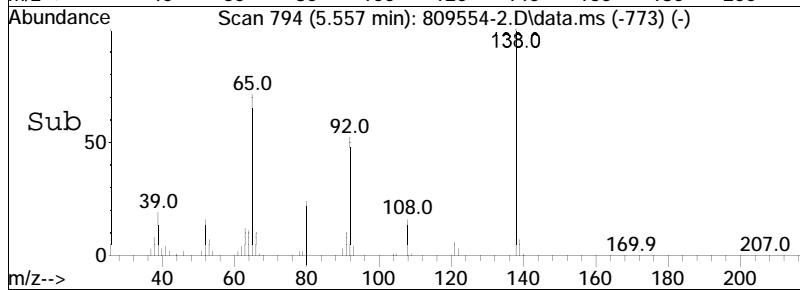
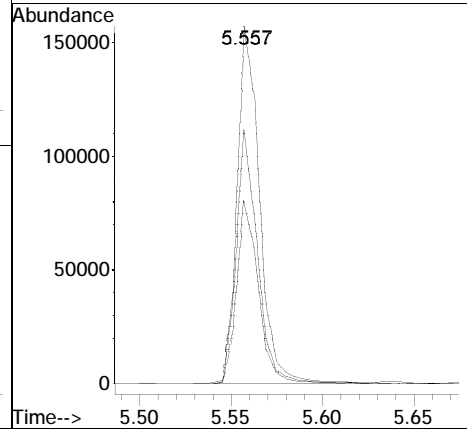
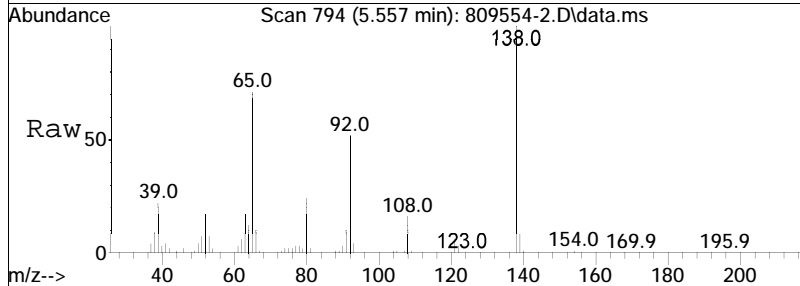
Tgt Ion	Resp	Lower	Upper
196	100		
200	29.3	25.4	38.0
198	96.1	79.1	118.7

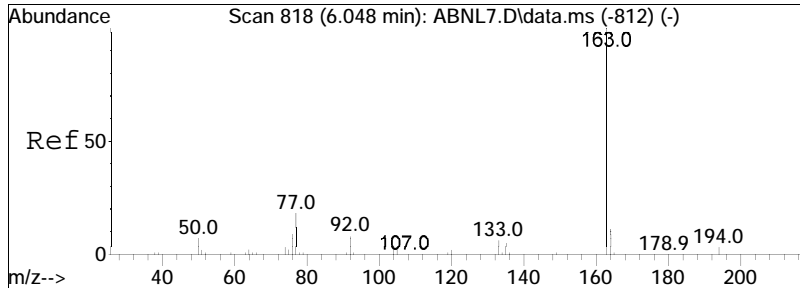




#48
 2-Nitroaniline
 Concen: 30.07 ug/ml
 RT: 5.557 min Scan# 794
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

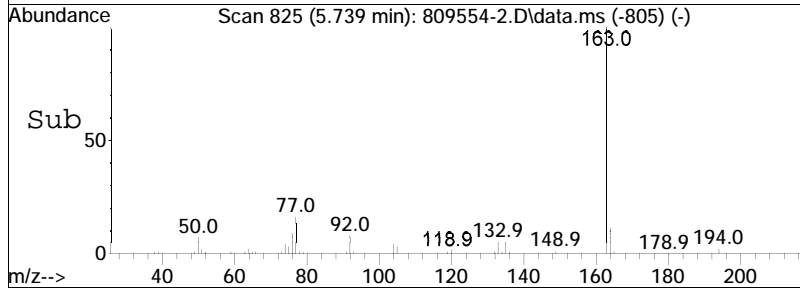
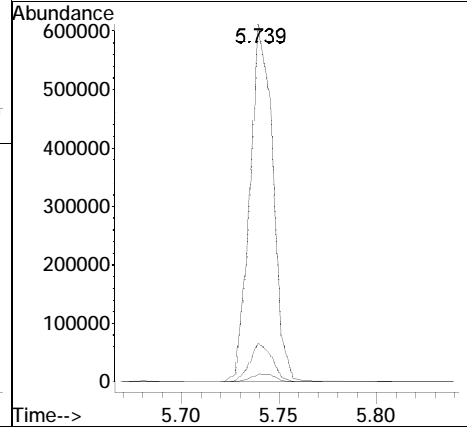
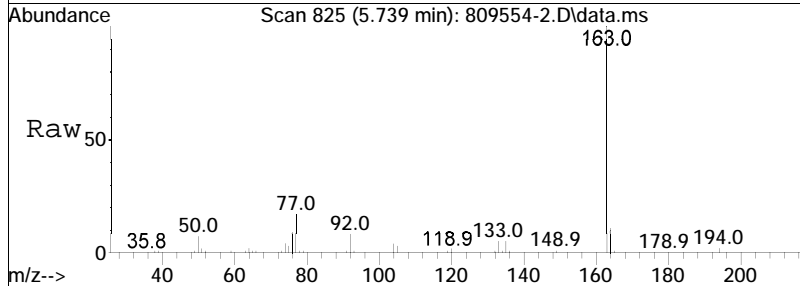
Tgt Ion	Resp	Lower	Upper
138	133703		
92	49.8	44.7	67.1
65	67.8	62.6	94.0

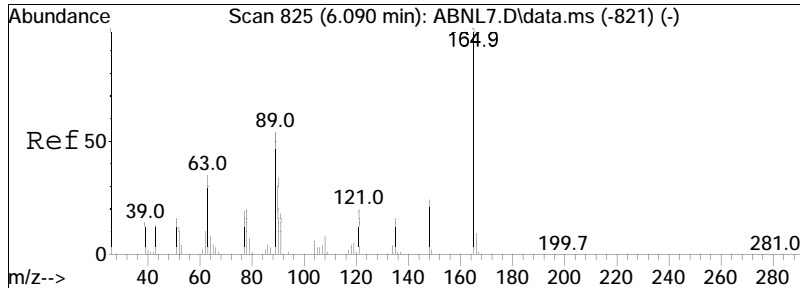




#51
 Dimethyl phthalate
 Concen: 30.11 ug/ml
 RT: 5.739 min Scan# 825
 Delta R.T. -0.009 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

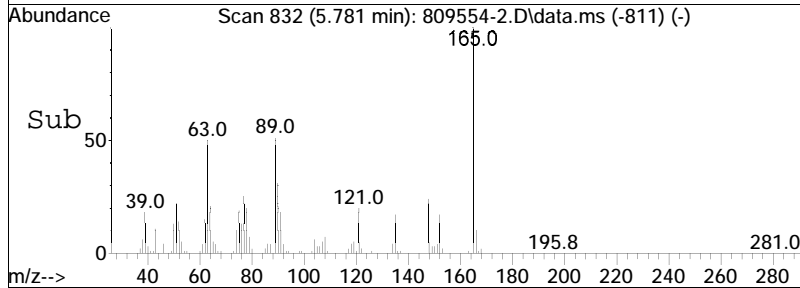
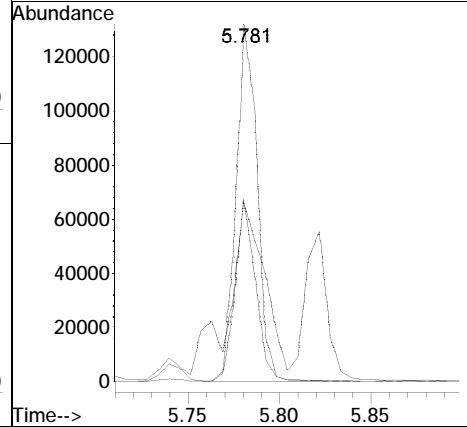
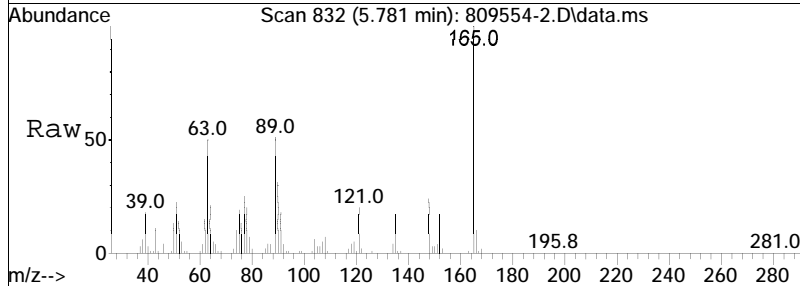
Tgt Ion	Resp	Lower	Upper
163	494499		
163	100		
194	2.3	2.0	3.0
164	10.6	8.6	12.8

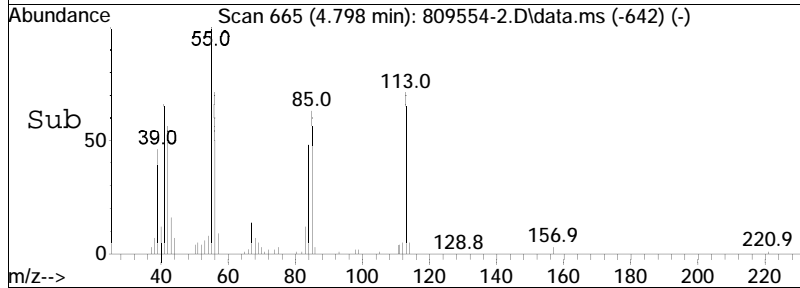
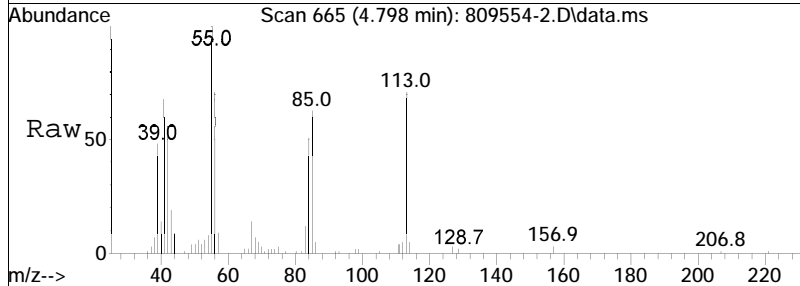
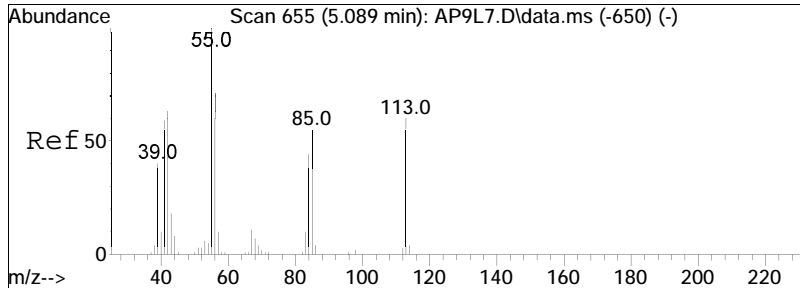




#53
 2,6-Dinitrotoluene
 Concen: 30.97 ug/ml
 RT: 5.781 min Scan# 832
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

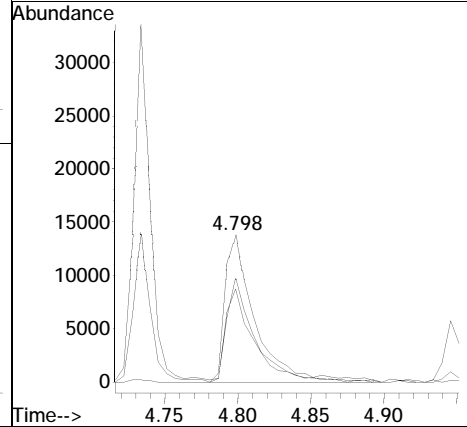
Tgt Ion	Ratio	Lower	Upper
165	100		
89	49.4	39.0	58.6
63	93.1	38.5	57.7#

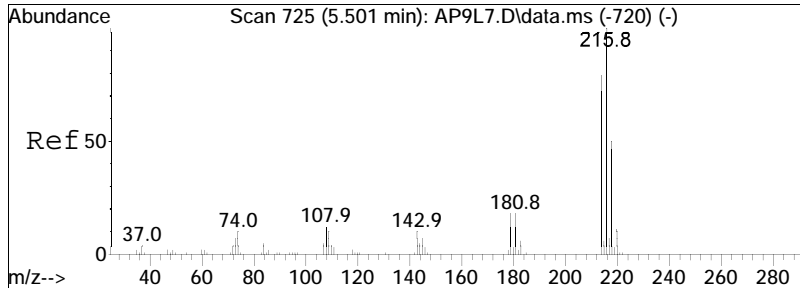




#60
 Caprolactam
 Concen: 9.70 ug/ml
 RT: 4.798 min Scan# 665
 Delta R.T. 0.009 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

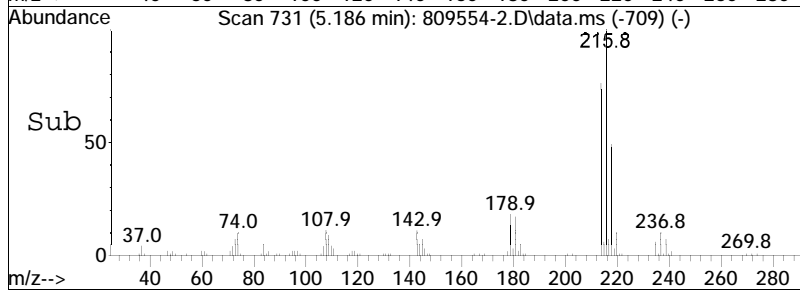
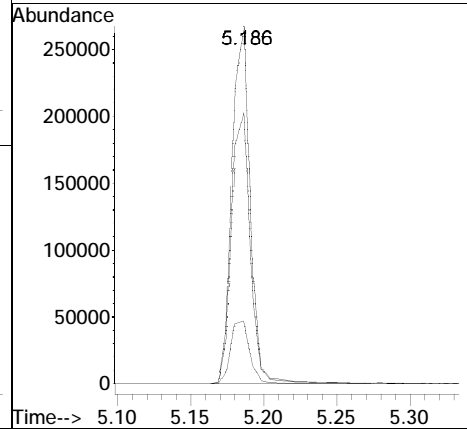
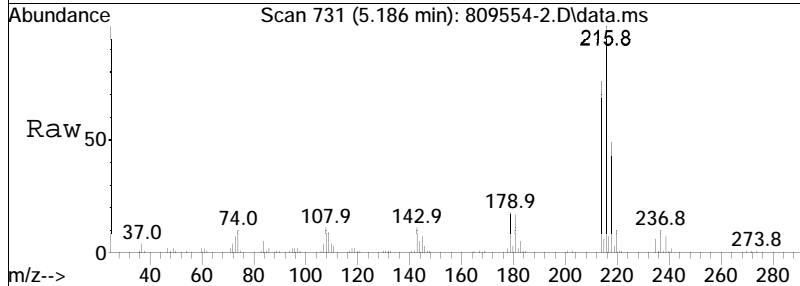
Tgt Ion	Resp	Lower	Upper
55	100		
85	61.0	40.2	60.2#
113	65.5	42.8	64.2#

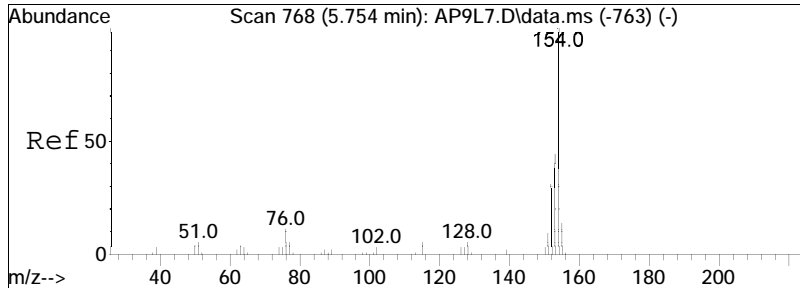




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 33.10 ug/ml
 RT: 5.186 min Scan# 731
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

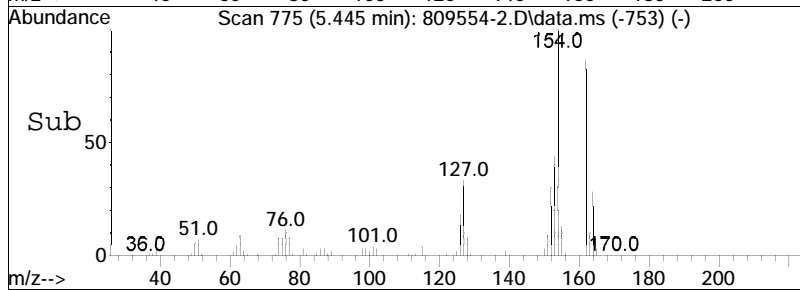
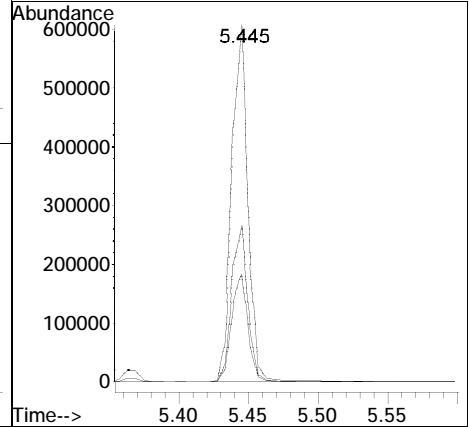
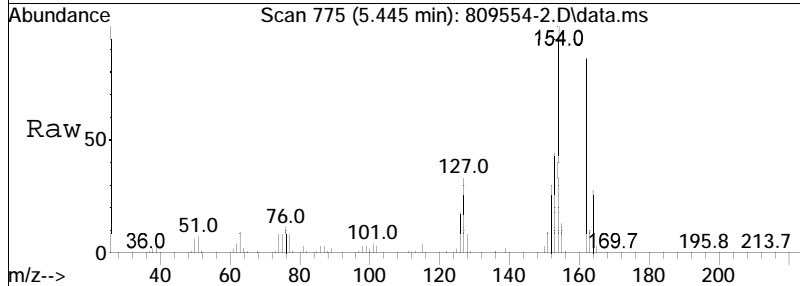
Tgt Ion	Ratio	Lower	Upper
216	100		
214	78.2	63.4	95.2
179	19.0	16.4	24.6

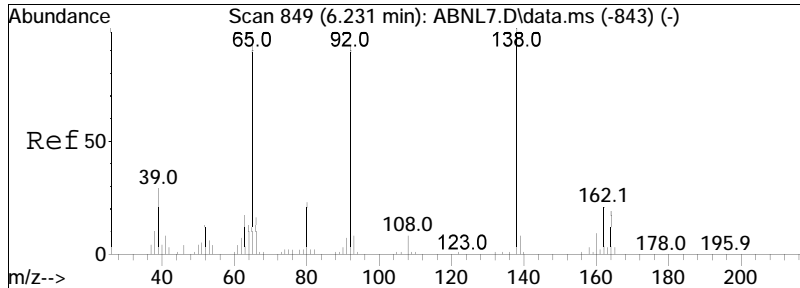




#62
 Biphenyl
 Concen: 31.66 ug/ml
 RT: 5.445 min Scan# 775
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

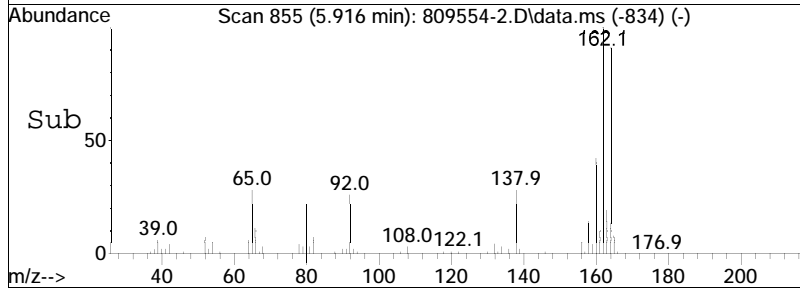
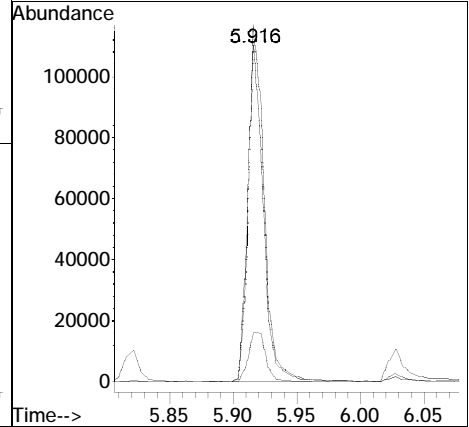
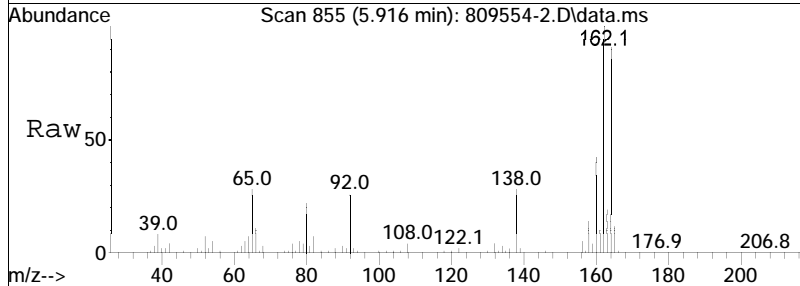
Tgt Ion	Resp	Lower	Upper
154	100		
153	44.0	34.7	52.1
152	30.8	24.0	36.0

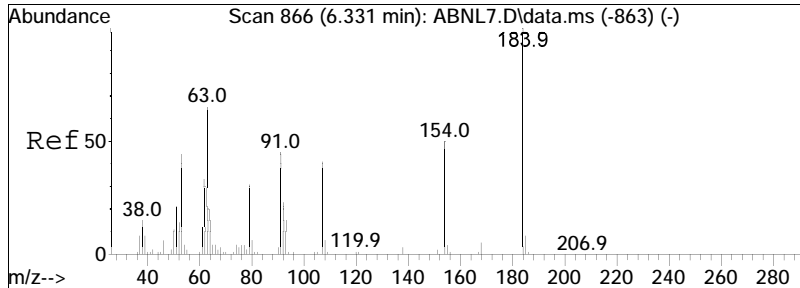




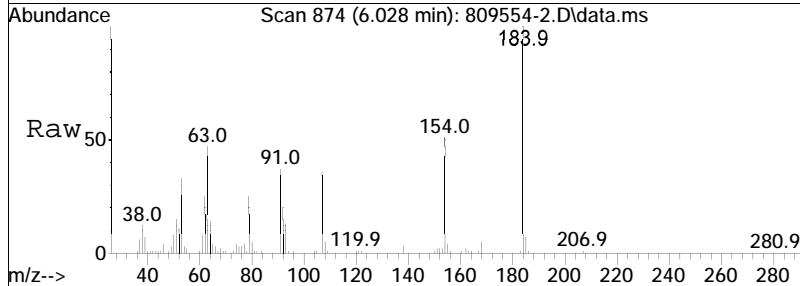
#64
 3-Nitroaniline
 Concen: 25.83 ug/ml
 RT: 5.916 min Scan# 855
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

Tgt Ion	Resp	Lower	Upper
138	100337		
92	91.6	80.2	120.4
108	15.4	7.2	10.8#

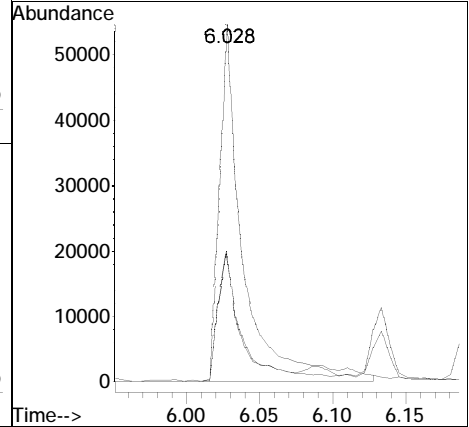
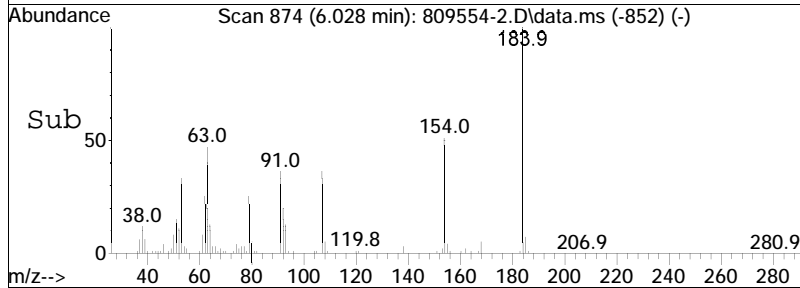


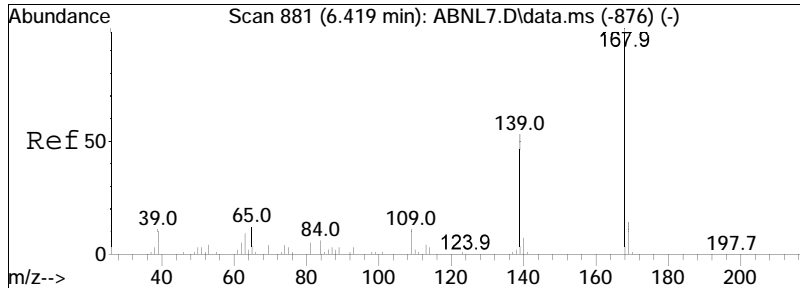


#66
 2,4-Dinitrophenol
 Concen: 30.05 ug/ml
 RT: 6.028 min Scan# 874
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am



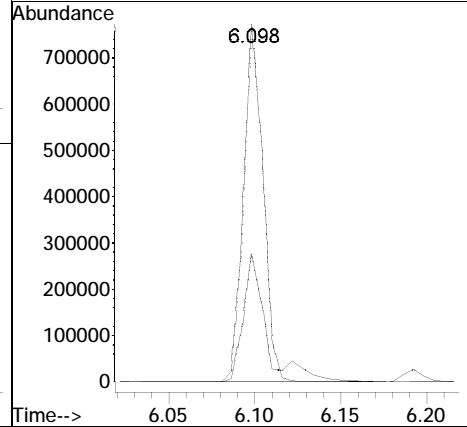
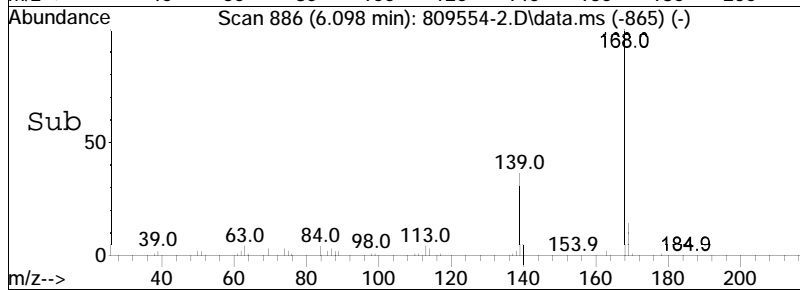
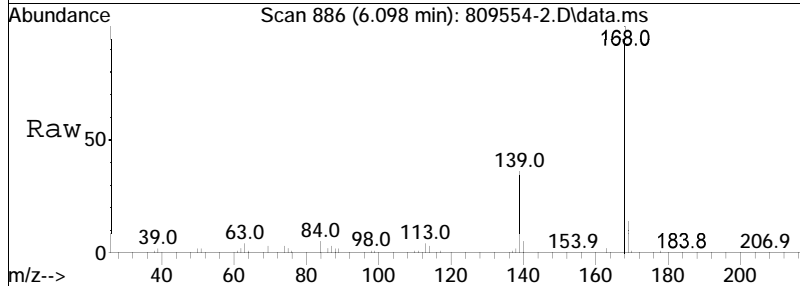
Tgt Ion	Ratio	Lower	Upper
184	100		
107	36.9	32.2	48.2
91	34.5	36.4	54.6#

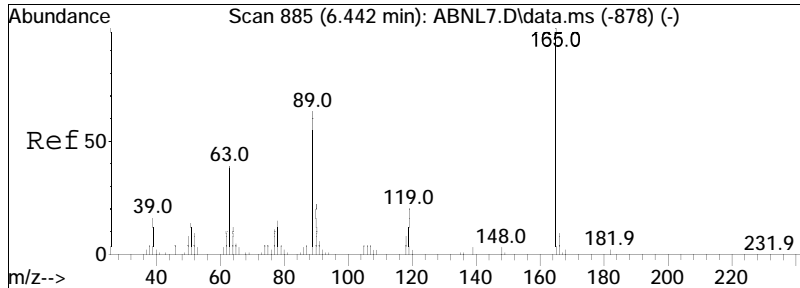




#67
 Dibenzofuran
 Concen: 31.72 ug/ml
 RT: 6.098 min Scan# 886
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

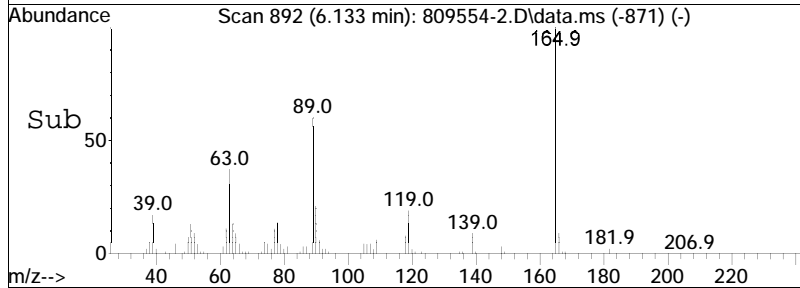
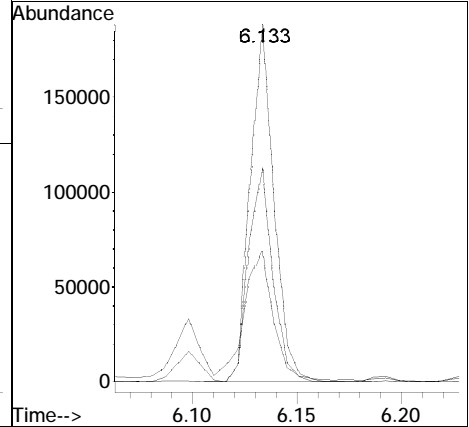
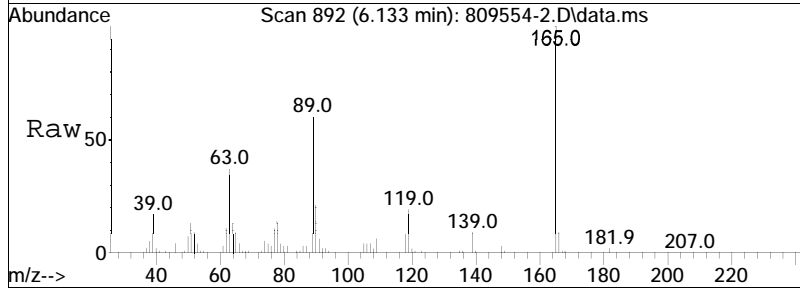
Tgt Ion: 168 Resp: 600870
 Ion Ratio Lower Upper
 168 100
 139 36.1 44.5 66.7#

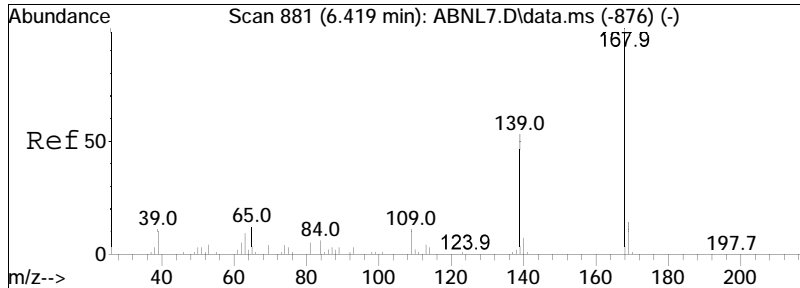




#68
 2,4-Dinitrotoluene
 Concen: 31.60 ug/ml
 RT: 6.133 min Scan# 892
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

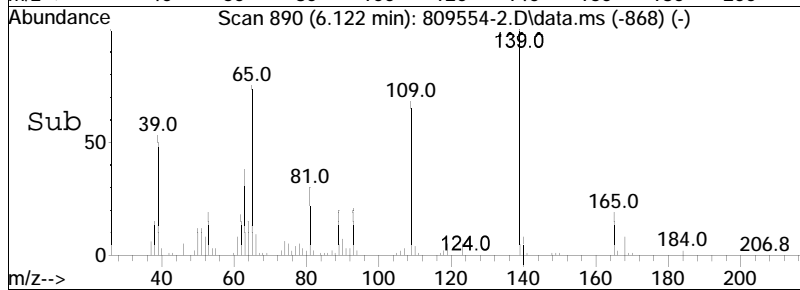
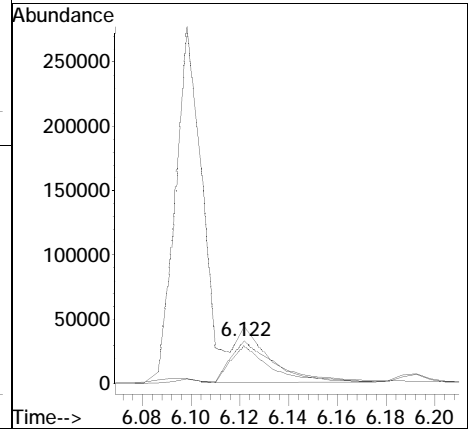
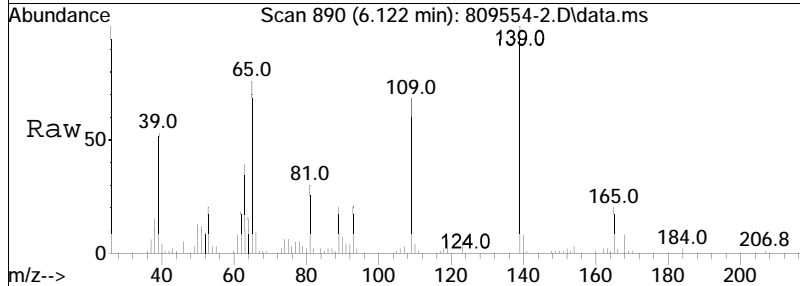
Tgt Ion	Ratio	Lower	Upper
165	100		
89	61.2	58.8	88.2
63	43.6	56.5	84.7#

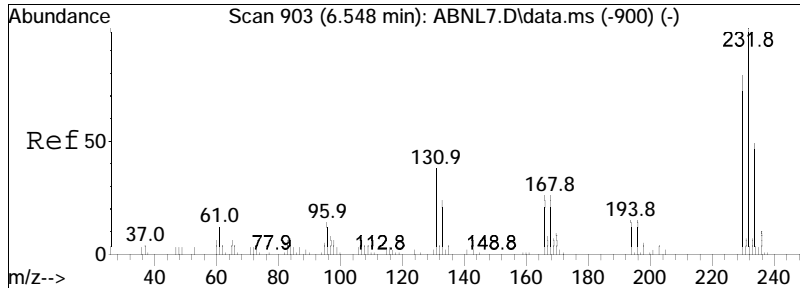




#69
 4-Nitrophenol
 Concen: 16.98 ug/ml
 RT: 6.122 min Scan# 890
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

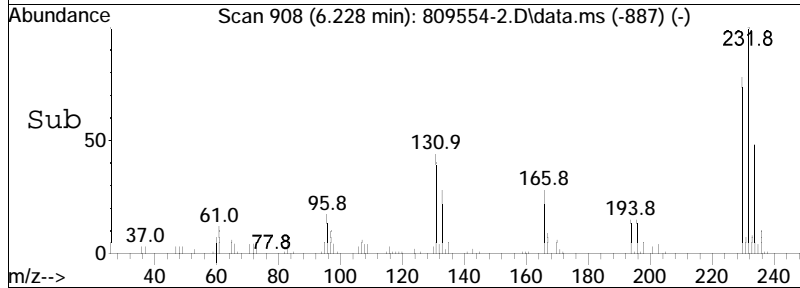
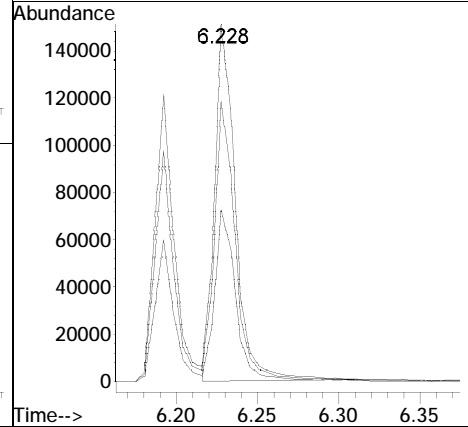
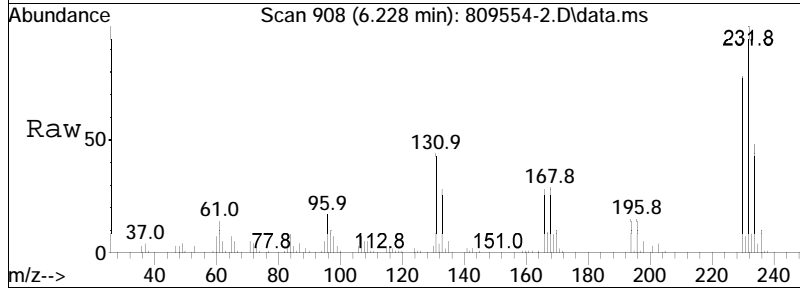
Tgt Ion:	Resp:	Lower	Upper
65	100		
109	93.8	52.0	78.0#
139	0.0	268.1	402.1#

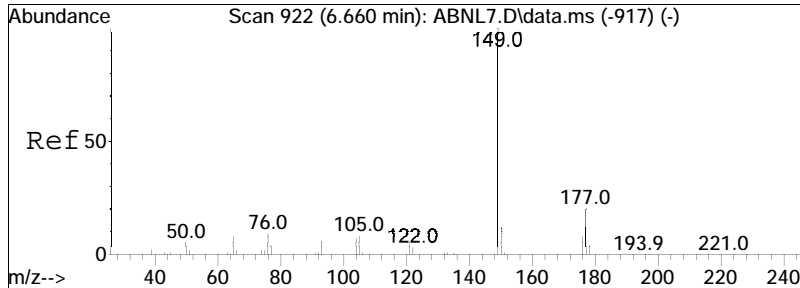




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 32.57 ug/ml
 RT: 6.228 min Scan# 908
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

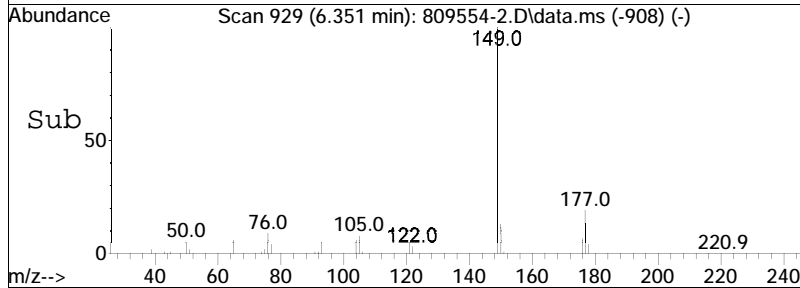
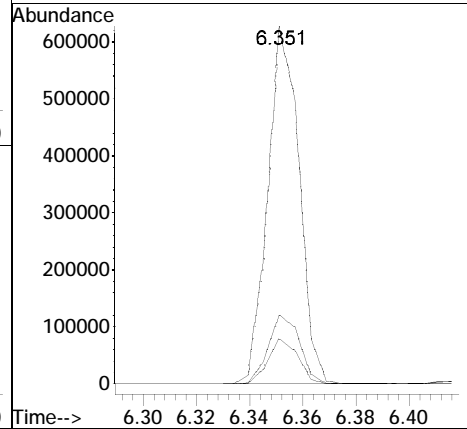
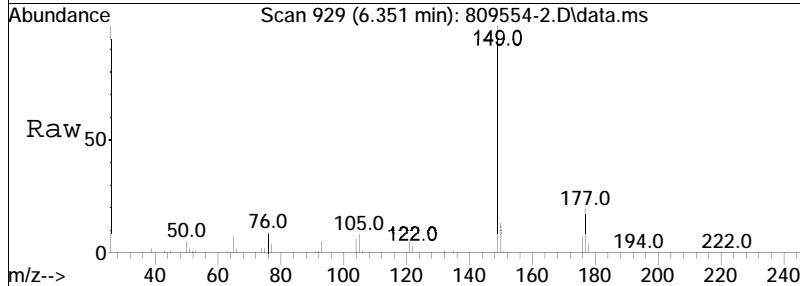
Tgt Ion	Resp	Lower	Upper
232	100		
230	78.1	62.9	94.3
234	47.0	38.1	57.1

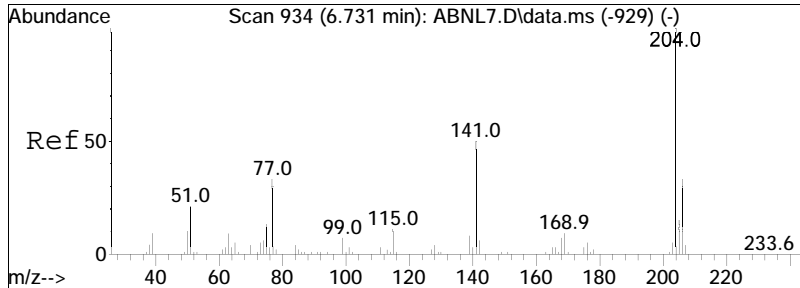




#72
 Diethyl phthalate
 Concen: 32.07 ug/ml
 RT: 6.351 min Scan# 929
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

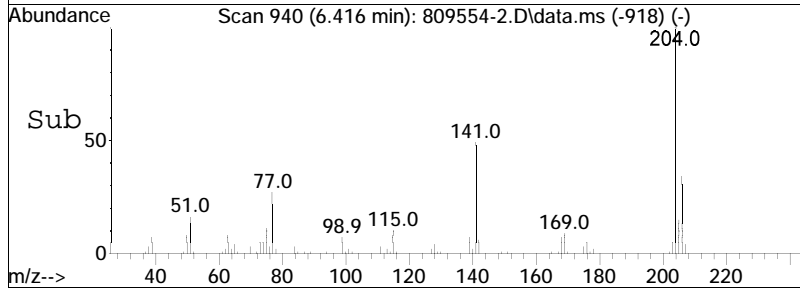
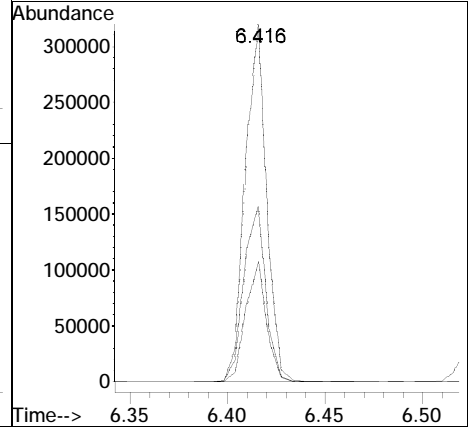
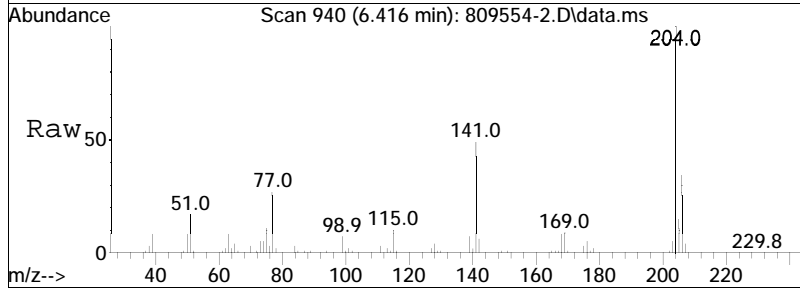
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.6	16.2	24.4
150	12.3	9.9	14.9

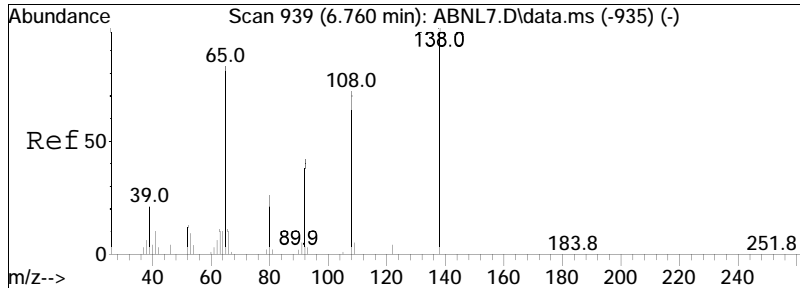




#74
 4-Chlorophenyl phenyl ether
 Concen: 32.20 ug/ml
 RT: 6.416 min Scan# 940
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

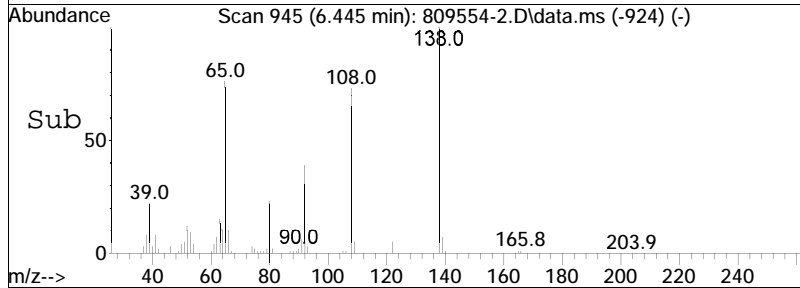
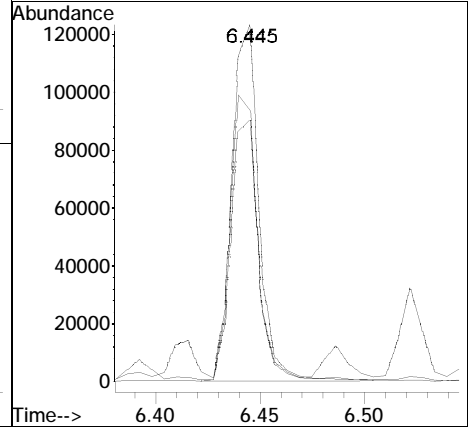
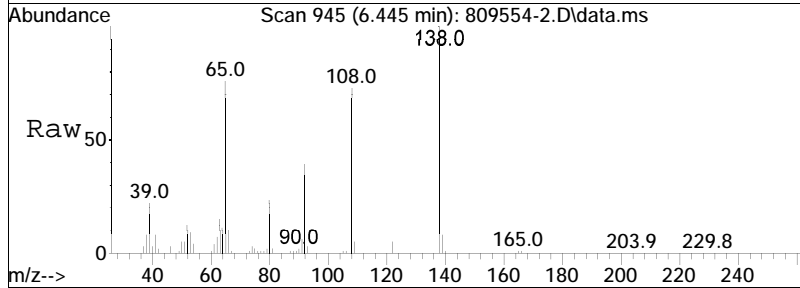
Tgt Ion	Ratio	Lower	Upper
204	100		
206	32.9	27.1	40.7
141	51.1	46.6	70.0

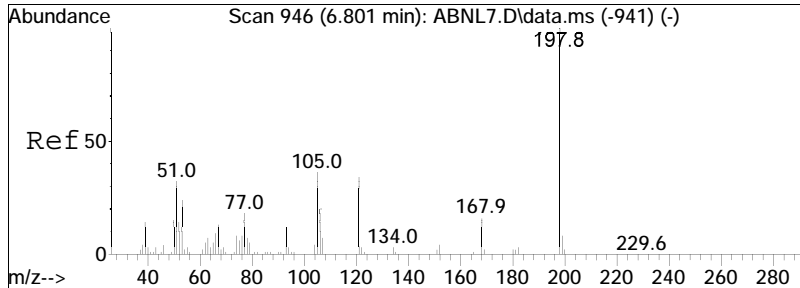




#75
 4-Nitroaniline
 Concen: 30.37 ug/ml
 RT: 6.445 min Scan# 945
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

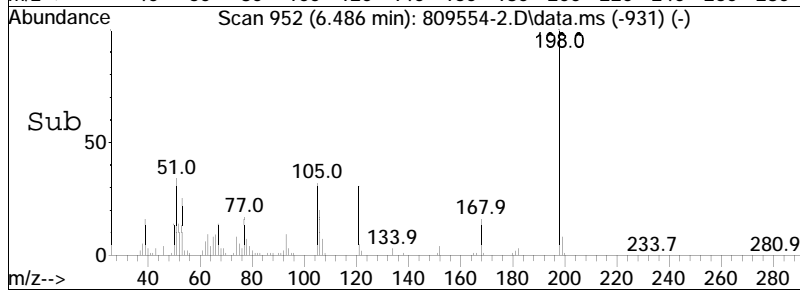
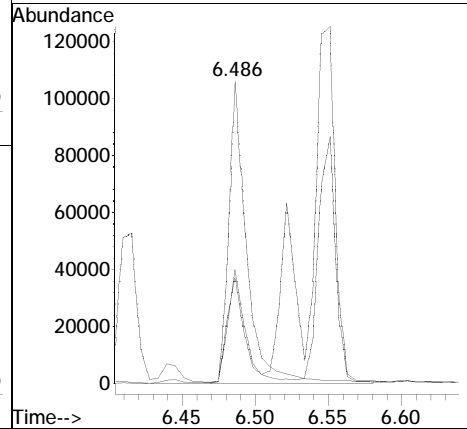
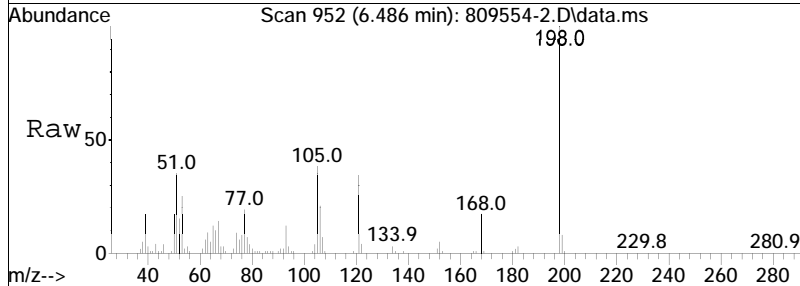
Tgt Ion	Resp	Lower	Upper
138	110526		
108	73.6	45.8	68.8#
65	79.0	84.2	126.4#

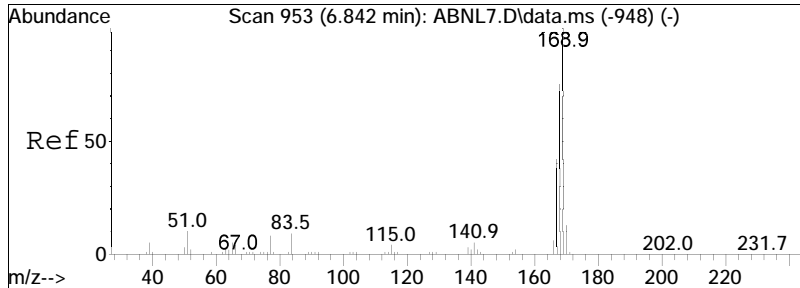




#76
 4,6-Dinitro-o-cresol
 Concen: 33.07 ug/ml
 RT: 6.486 min Scan# 952
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

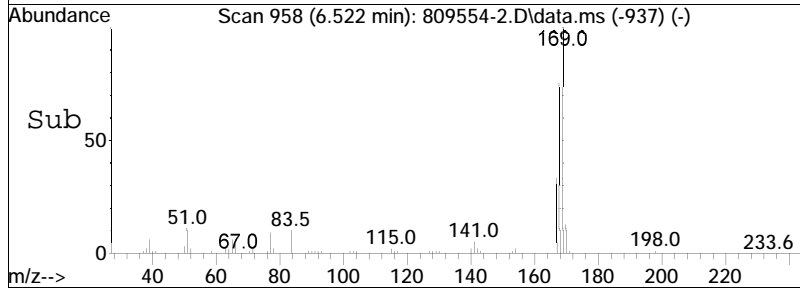
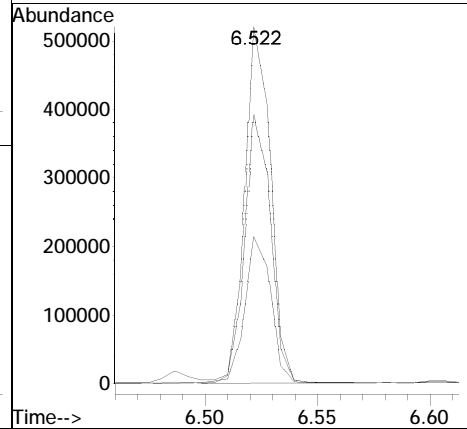
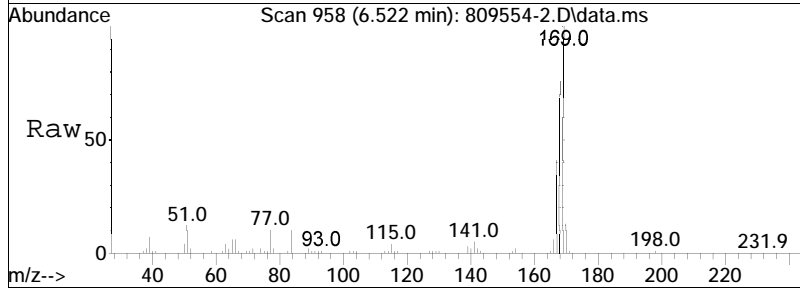
Tgt Ion	Ratio	Lower	Upper
198	100		
51	32.5	35.5	53.3#
105	36.8	35.8	53.6

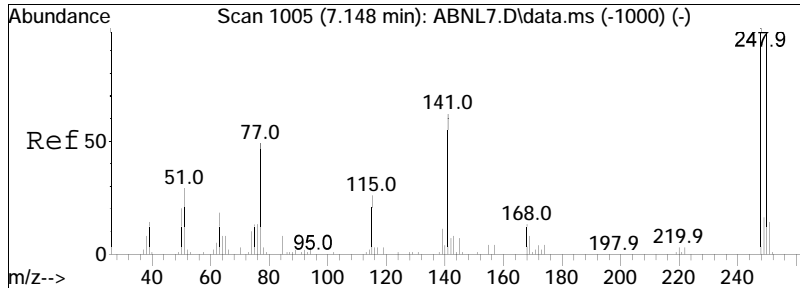




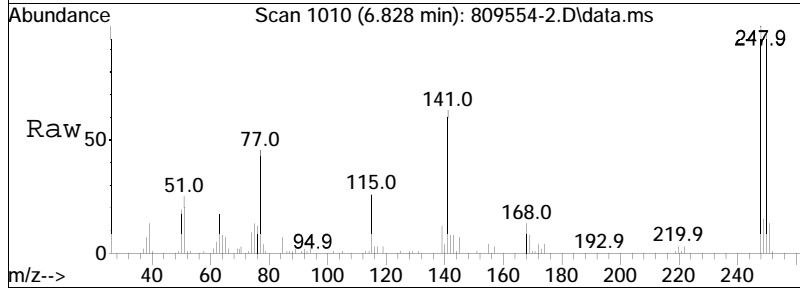
#77
 NDPA/DPA
 Concen: 31.62 ug/ml
 RT: 6.522 min Scan# 958
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

Tgt Ion	Resp	Lower	Upper
169	100		
168	76.1	59.7	89.5
167	42.3	33.6	50.4

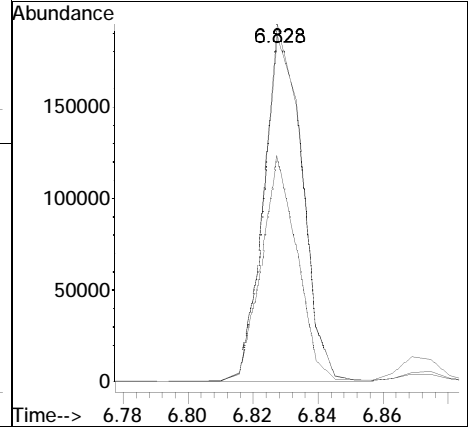
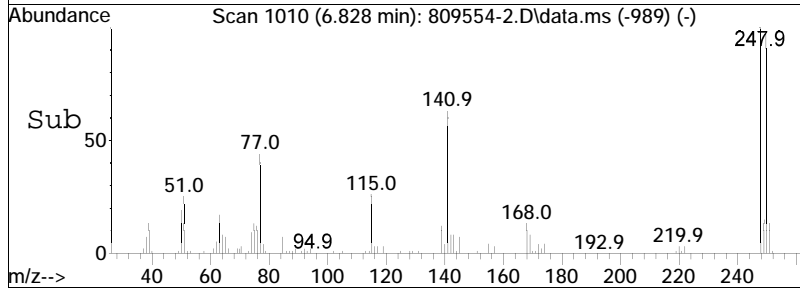


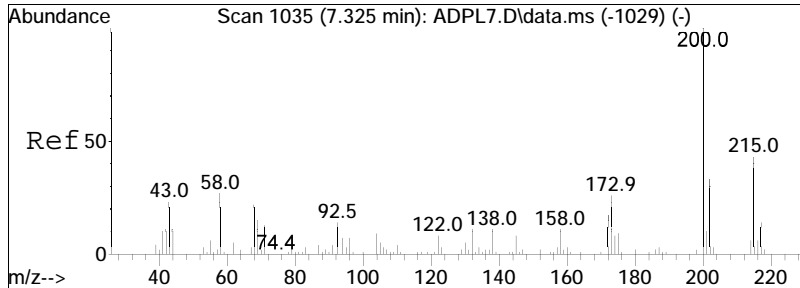


#80
 4-Bromophenyl phenyl ether
 Concen: 32.34 ug/ml
 RT: 6.828 min Scan# 1010
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am



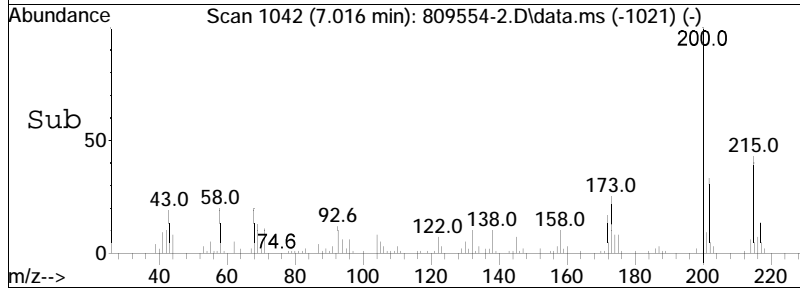
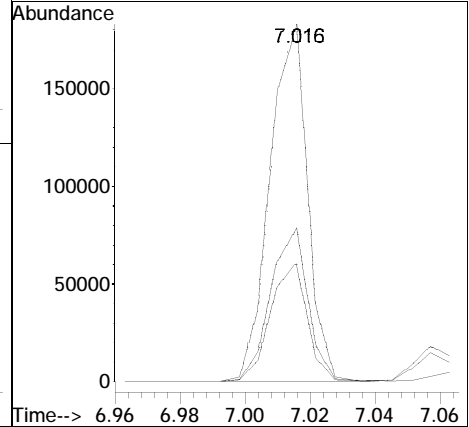
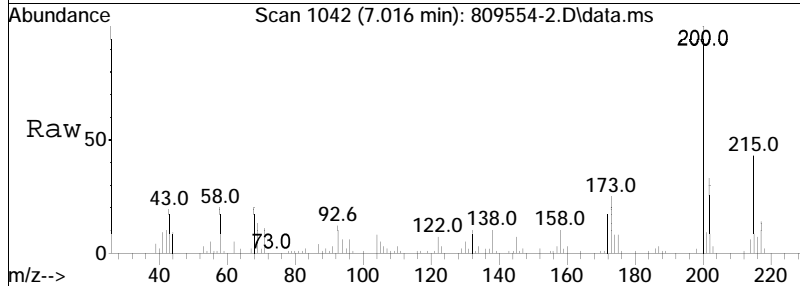
Tgt Ion	Resp	Lower	Upper
248	100		
141	59.9	50.8	76.2
250	99.1	78.1	117.1

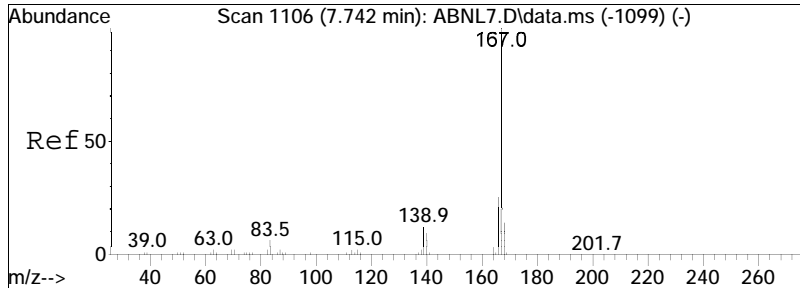




#87
 Atrazine
 Concen: 30.51 ug/ml
 RT: 7.016 min Scan# 1042
 Delta R.T. 0.000 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

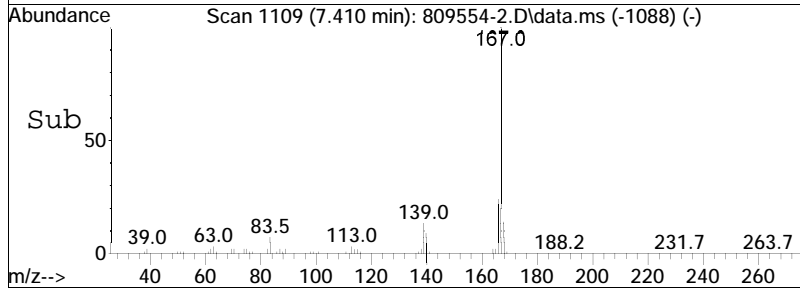
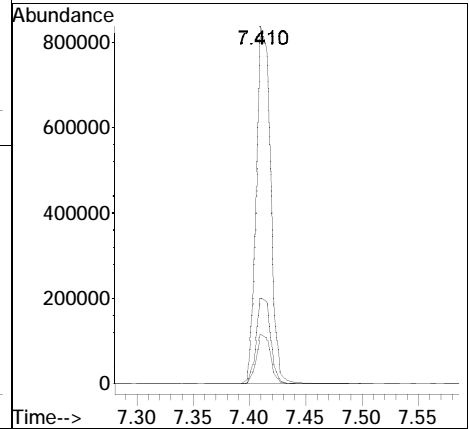
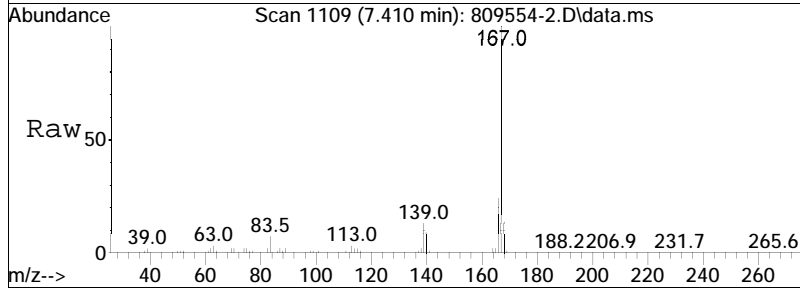
Tgt Ion	Ratio	Lower	Upper
200	100		
202	32.6	26.5	39.7
215	43.0	35.8	53.6

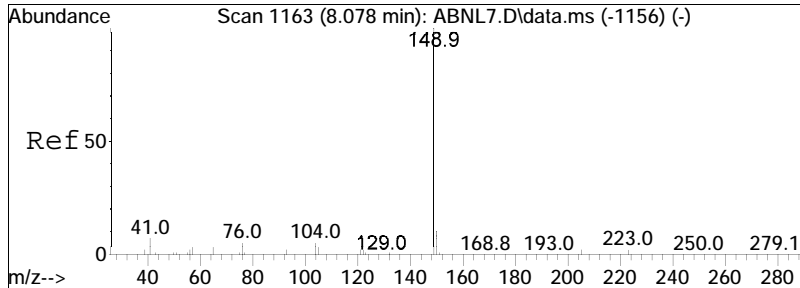




#91
 Carbazole
 Concen: 31.42 ug/ml
 RT: 7.410 min Scan# 1109
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

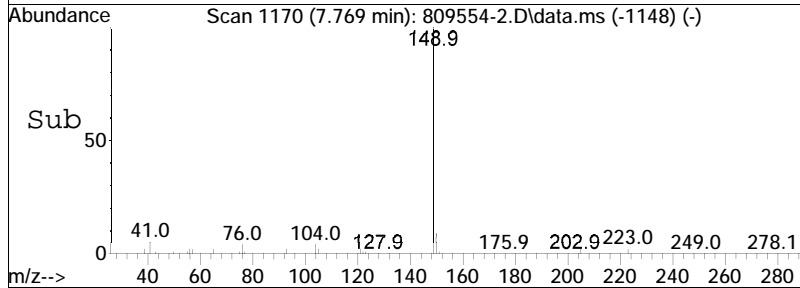
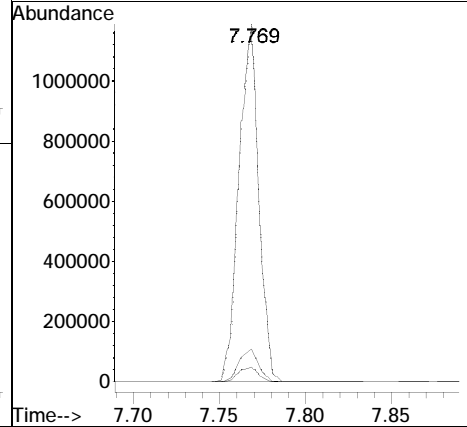
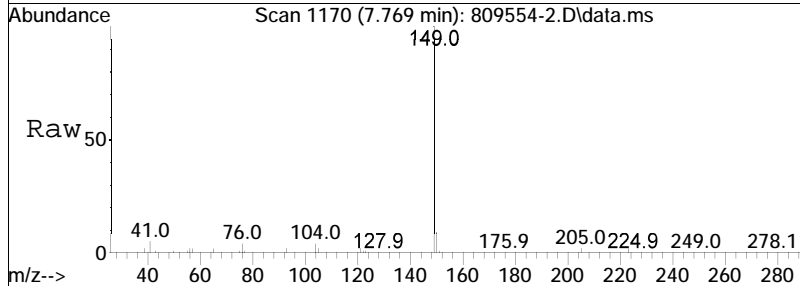
Tgt Ion	Resp	Lower	Upper
167	100		
168	13.8	11.6	17.4
166	24.4	19.9	29.9

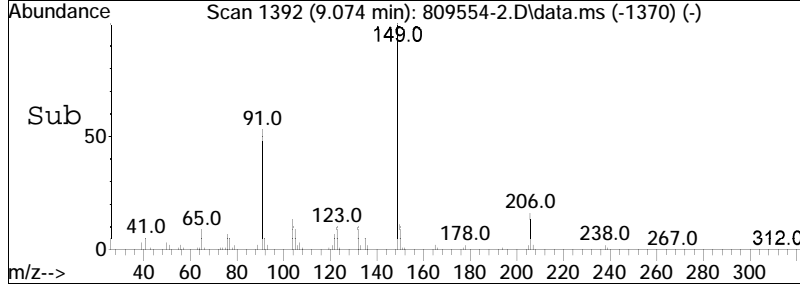
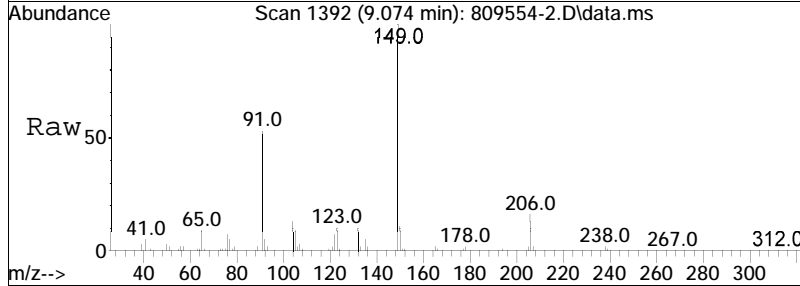
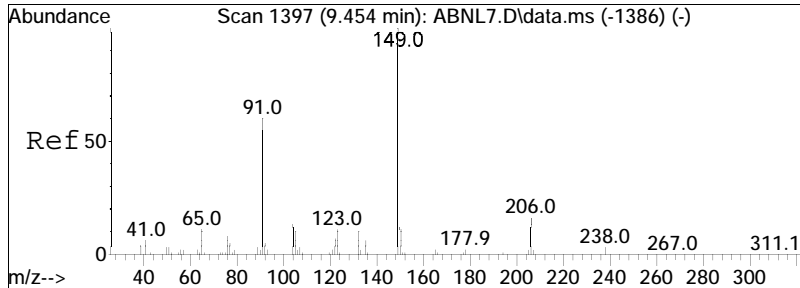




#92
 Di-n-butylphthalate
 Concen: 32.89 ug/ml
 RT: 7.769 min Scan# 1170
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

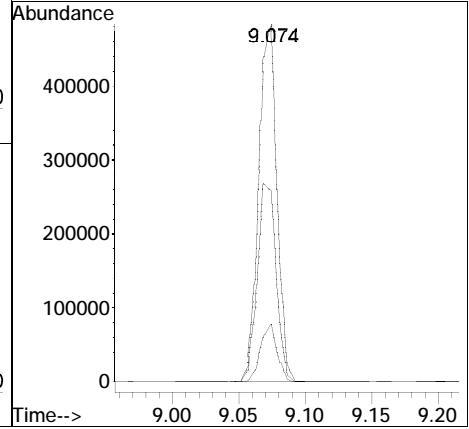
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.3	8.1	12.1
104	4.5	3.4	5.2

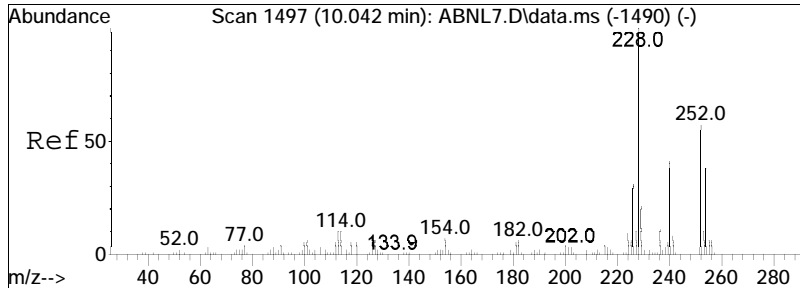




#97
 Butyl benzyl phthalate
 Concen: 32.35 ug/ml
 RT: 9.074 min Scan# 1392
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

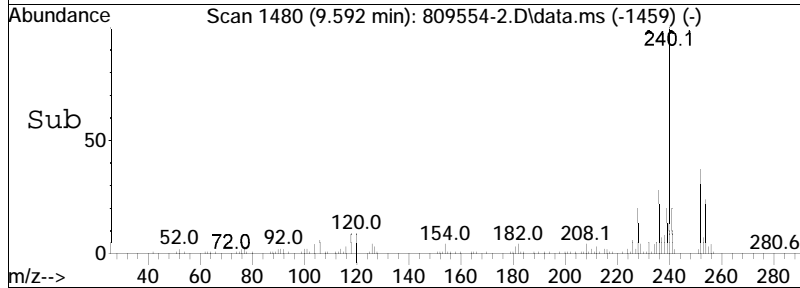
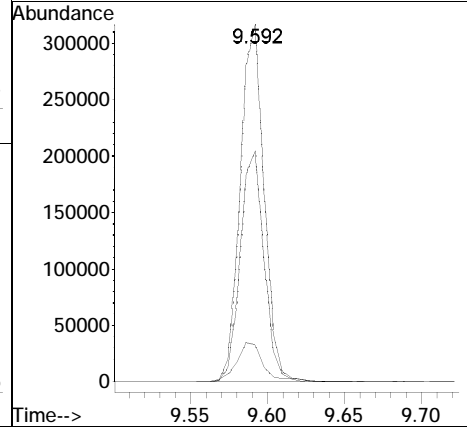
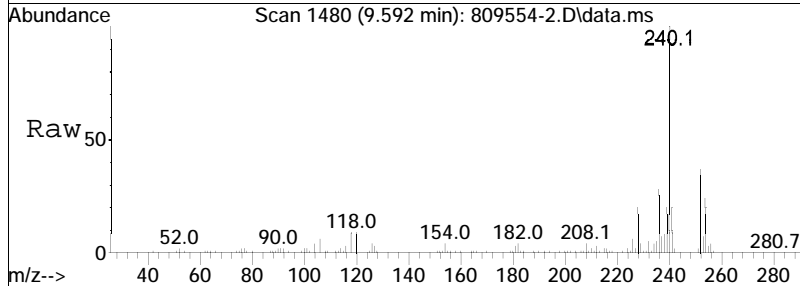
Tgt Ion	Ratio	Lower	Upper
149	100		
91	57.3	51.2	76.8
206	14.9	12.1	18.1

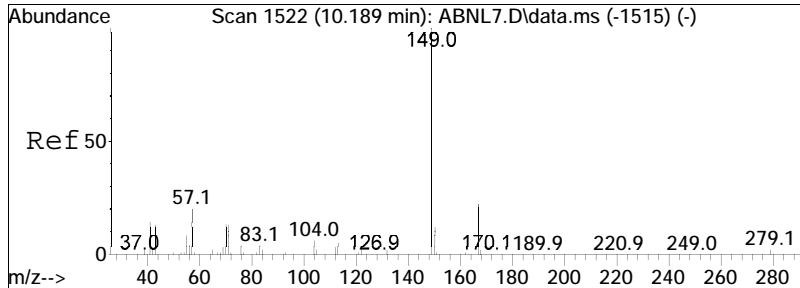




#106
 3,3'-Dichlorobenzidine
 Concen: 25.00 ug/ml
 RT: 9.592 min Scan# 1480
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

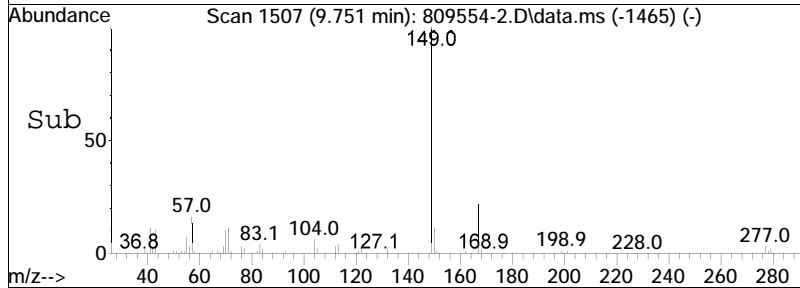
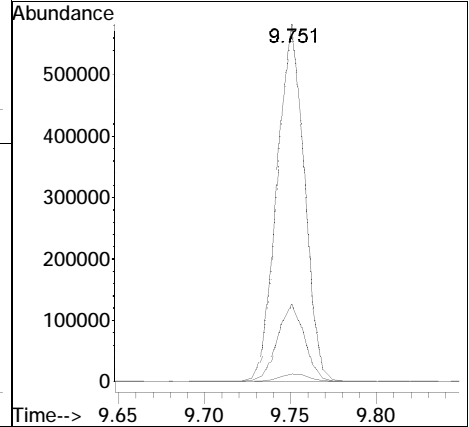
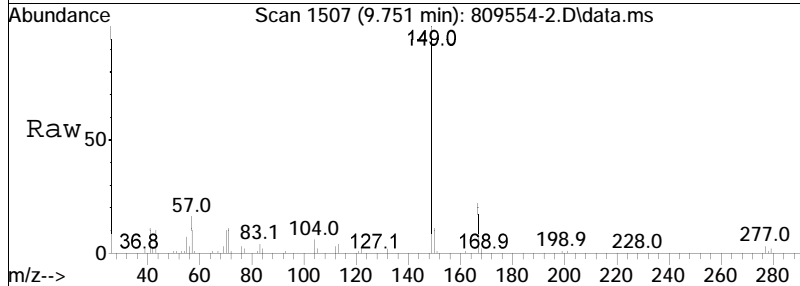
Tgt Ion	Ratio	Lower	Upper
252	100		
126	12.6	11.6	17.4
254	64.4	52.2	78.2

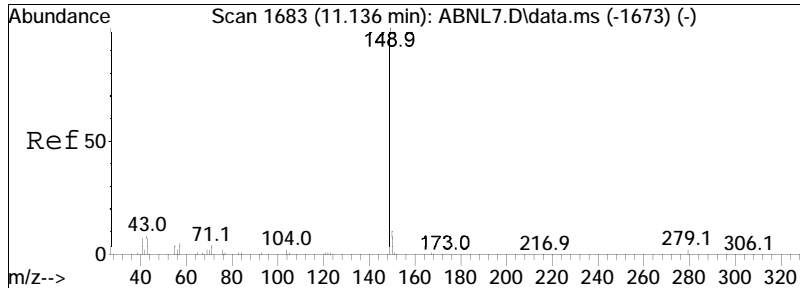




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 33.18 ug/ml
 RT: 9.751 min Scan# 1507
 Delta R.T. -0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

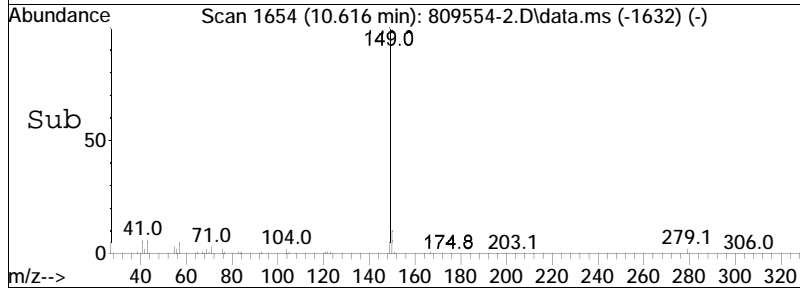
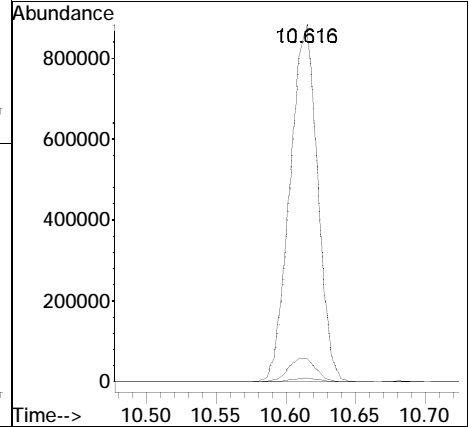
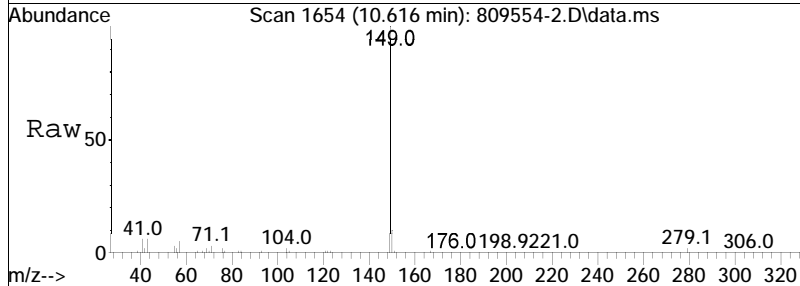
Tgt Ion	Ratio	Lower	Upper
149	100		
167	21.5	17.8	26.8
279	2.1	1.8	2.6





#109
 Di-n-octylphthalate
 Concen: 33.32 ug/ml
 RT: 10.616 min Scan# 1654
 Delta R.T. 0.003 min
 Lab File: 809554-2.D
 Acq: 2 Aug 2023 2:06 am

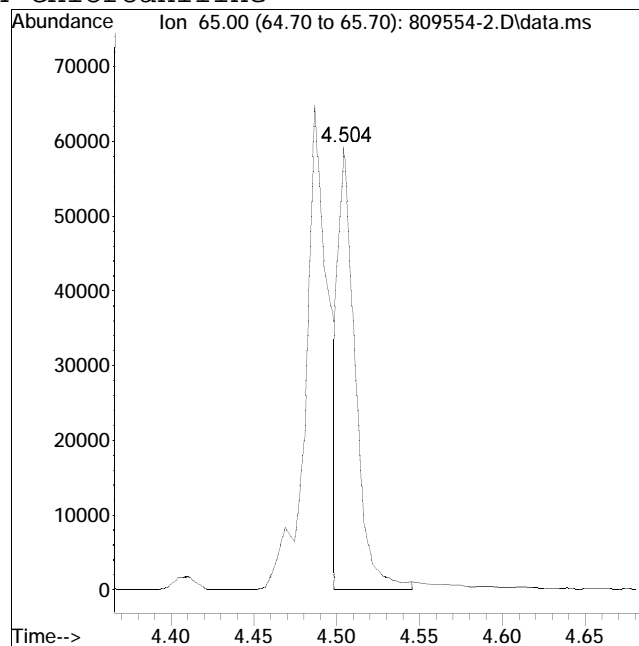
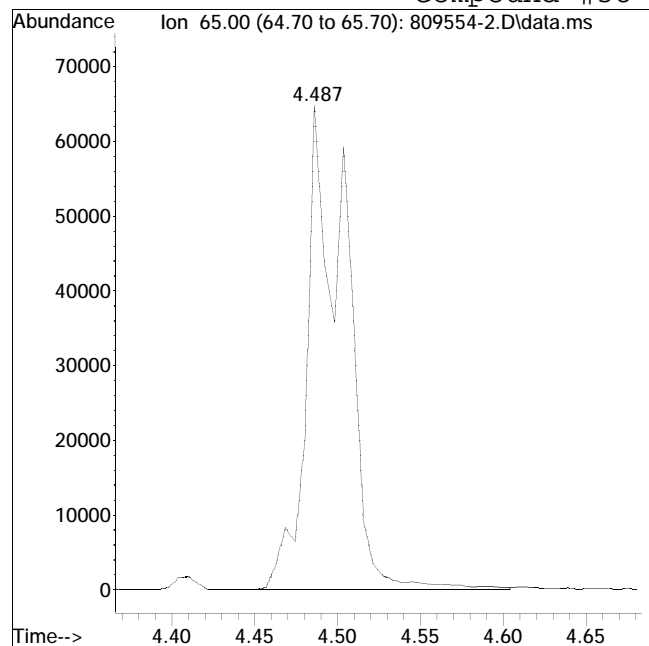
Tgt Ion	Ratio	Lower	Upper
149	100		
43	6.7	7.4	11.2#
167	1.3	1.1	1.7



Manual Integration Report

Data Path : I:\8270\Juliet\230801n\ QMethod : FS230721Juliet.m
Data File : 809554-2.D Operator : Juliet:mg
Date Inj'd : 8/2/2023 2:06 am Instrument : Juliet
Sample : WG1809554-2,32,,ASK Quant Date : 8/2/2023 12:11 pm

Compound #38: 4-Chloroaniline



Original Peak Response = 106074

Manual Peak Response = 39626 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
 Data File : 809554-3.D
 Acq On : 2 Aug 2023 2:30 am
 Operator : Juliet:mg
 Sample : WG1809554-3,32,,ASK
 Misc : WG1810591,WG1809554,ical20193
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 03 22:46:56 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:53 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230801n\ABN0801n.D
 : 2 - I:\8270\Juliet\230801n\ADP0801n.D
 : 3 - I:\8270\Juliet\230801n\AP90801n.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	3.322	152	213771	40.000	ug/ml	0.00
Standard Area 1 = 216721			Recovery =	98.64%		
27) IS2_1,4-Dichlorobenzen...	3.322	152	213771	40.000	ug/ml	0.00
Standard Area 3 = 242524			Recovery =	88.14%		
32) IS3_1,4-Dichlorobenzen...	3.322	152	213771	40.000	ug/ml	0.00
Standard Area 2 = 233446			Recovery =	91.57%		
35) IS1_Naphthalene-d8	4.410	136	741374	40.000	ug/ml	# 0.00
Standard Area 1 = 758234			Recovery =	97.78%		
55) IS2_Naphthalene-d8	4.410	136	741374	40.000	ug/ml	# 0.00
Standard Area 3 = 843065			Recovery =	87.94%		
63) IS1_Acenaphthene-d10	5.922	164	444712	40.000	ug/ml	0.00
Standard Area 1 = 451048			Recovery =	98.60%		
83) IS2_Acenaphthene-d10	5.922	164	444712	40.000	ug/ml	0.00
Standard Area 3 = 502187			Recovery =	88.56%		
86) IS3_Acenaphthene-d10	5.922	164	444712	40.000	ug/ml	0.00
Standard Area 2 = 513461			Recovery =	86.61%		
88) IS1_Phenanthrene-d10	7.192	188	975939	40.000	ug/ml	# 0.00
Standard Area 1 = 1011690			Recovery =	96.47%		
100) IS3_Phenanthrene-d10	7.192	188	975939	40.000	ug/ml	# 0.00
Standard Area 2 = 1127462			Recovery =	86.56%		
104) IS1_Chrysene-d12	9.586	240	1025562	40.000	ug/ml	# 0.00
Standard Area 1 = 1043233			Recovery =	98.31%		
113) IS1_Perylene-d12	11.480	264	1150483	40.000	ug/ml	0.00
Standard Area 1 = 1222692			Recovery =	94.09%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.240	112	164264	30.486	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery =	60.97%		
7) Phenol-d6	3.069	99	136752	19.823	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery =	39.65%		
19) Nitrobenzene-d5	3.804	82	117254	18.917	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery =	75.67%		
46) 2-Fluorobiphenyl	5.369	172	340186	21.832	ug/ml	0.00
Spiked Amount 25.000		Range 30 - 130	Recovery =	87.33%		
79) 2,4,6-Tribromophenol	6.604	330	118802	46.557	ug/ml	0.00
Spiked Amount 50.000		Range 15 - 110	Recovery =	93.11%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
 Data File : 809554-3.D
 Acq On : 2 Aug 2023 2:30 am
 Operator : Juliet:mg
 Sample : WG1809554-3,32,,ASK
 Misc : WG1810591,WG1809554,ical20193
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 03 22:46:56 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:53 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230801n\ABN0801n.D
 : 2 - I:\8270\Juliet\230801n\ADP0801n.D
 : 3 - I:\8270\Juliet\230801n\AP90801n.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	8.592	244	513569	21.606	ug/ml	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	86.42%
Target Compounds						Qvalue
6) 2-Chlorophenol	3.145	128	207260	31.062	ug/ml	93
8) Phenol	3.081	94	99432	12.899	ug/ml#	73
9) Bis(2-chloroethyl)ether	3.122	93	144053	28.070	ug/ml	87
14) Bis(2-chloroisopropyl)...	3.587	45	151305	24.178	ug/ml#	66
15) 2-Methylphenol	3.598	108	143525	26.383	ug/ml	97
17) n-Nitrosodi-n-propylamine	3.698	70	112870	27.992	ug/ml	98
18) 3-Methylphenol/4-Methy...	3.734	108	162243	28.221	ug/ml	84
20) Nitrobenzene	3.822	77	168900	28.102	ug/ml	99
21) Isophorone	4.034	82	314170	27.366	ug/ml	98
22) 2-Nitrophenol	4.098	139	113585	31.174	ug/ml	93
23) 2,4-Dimethylphenol	4.181	107	169951	27.260	ug/ml	98
24) Bis(2-chloroethoxy)met...	4.251	93	187908	27.872	ug/ml	99
25) 2,4-Dichlorophenol	4.322	162	199181	32.199	ug/ml#	95
28) Benzaldehyde	2.945	105	155745	41.083	ug/ml	90
29) Acetophenone	3.681	105	259052	32.156	ug/ml	93
38) 4-Chloroaniline	4.504	65	42649M3	23.052	ug/ml	
40) p-Chloro-m-cresol	4.963	107	168239	32.147	ug/ml	96
43) Hexachlorocyclopentadiene	5.181	237	60071	19.220	ug/ml	97
44) 2,4,6-Trichlorophenol	5.298	196	155062	34.452	ug/ml	99
45) 2,4,5-Trichlorophenol	5.333	196	174985	35.672	ug/ml	95
48) 2-Nitroaniline	5.557	138	141388	32.367	ug/ml	89
51) Dimethyl phthalate	5.739	163	523580	32.445	ug/ml	99
53) 2,6-Dinitrotoluene	5.781	165	110576	33.028	ug/ml#	65
60) Caprolactam	4.798	55	20792	10.296	ug/ml#	83
61) 1,2,4,5-Tetrachloroben...	5.186	216	242463	35.779	ug/ml	99
62) Biphenyl	5.445	154	516953	34.230	ug/ml	99
64) 3-Nitroaniline	5.916	138	110063	28.282	ug/ml#	90
66) 2,4-Dinitrophenol	6.028	184	63556	30.856	ug/ml	91
67) Dibenzofuran	6.098	168	620159	32.682	ug/ml#	73
68) 2,4-Dinitrotoluene	6.133	165	152681	32.761	ug/ml#	76
69) 4-Nitrophenol	6.122	65	40696	17.170	ug/ml#	1
71) 2,3,4,6-Tetrachlorophenol	6.228	232	137203	33.114	ug/ml	98
72) Diethyl phthalate	6.351	149	527125	33.207	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
 Data File : 809554-3.D
 Acq On : 2 Aug 2023 2:30 am
 Operator : Juliet:mg
 Sample : WG1809554-3,32,,ASK
 Misc : WG1810591,WG1809554,ical20193
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 03 22:46:56 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:53 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Juliet\230801n\ABN0801n.D
 : 2 - I:\8270\Juliet\230801n\ADP0801n.D
 : 3 - I:\8270\Juliet\230801n\AP90801n.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Chlorophenyl phenyl ...	6.416	204	248372	33.350	ug/ml	93
75) 4-Nitroaniline	6.445	138	116243	31.888	ug/ml#	77
76) 4,6-Dinitro-o-cresol	6.486	198	95631	34.572	ug/ml#	83
77) NDPA/DPA	6.522	169	423555	32.381	ug/ml	98
80) 4-Bromophenyl phenyl e...	6.827	248	164857	33.872	ug/ml	97
87) Atrazine	7.016	200	147775	30.900	ug/ml	97
91) Carbazole	7.410	167	756938	32.357	ug/ml	99
92) Di-n-butylphthalate	7.769	149	949524	33.361	ug/ml	99
97) Butyl benzyl phthalate	9.074	149	457796	32.361	ug/ml	94
106) 3,3'-Dichlorobenzidine	9.592	252	355800	26.307	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	9.751	149	655794	34.101	ug/ml	98
109) Di-n-octylphthalate	10.616	149	1219693	33.835	ug/ml#	94

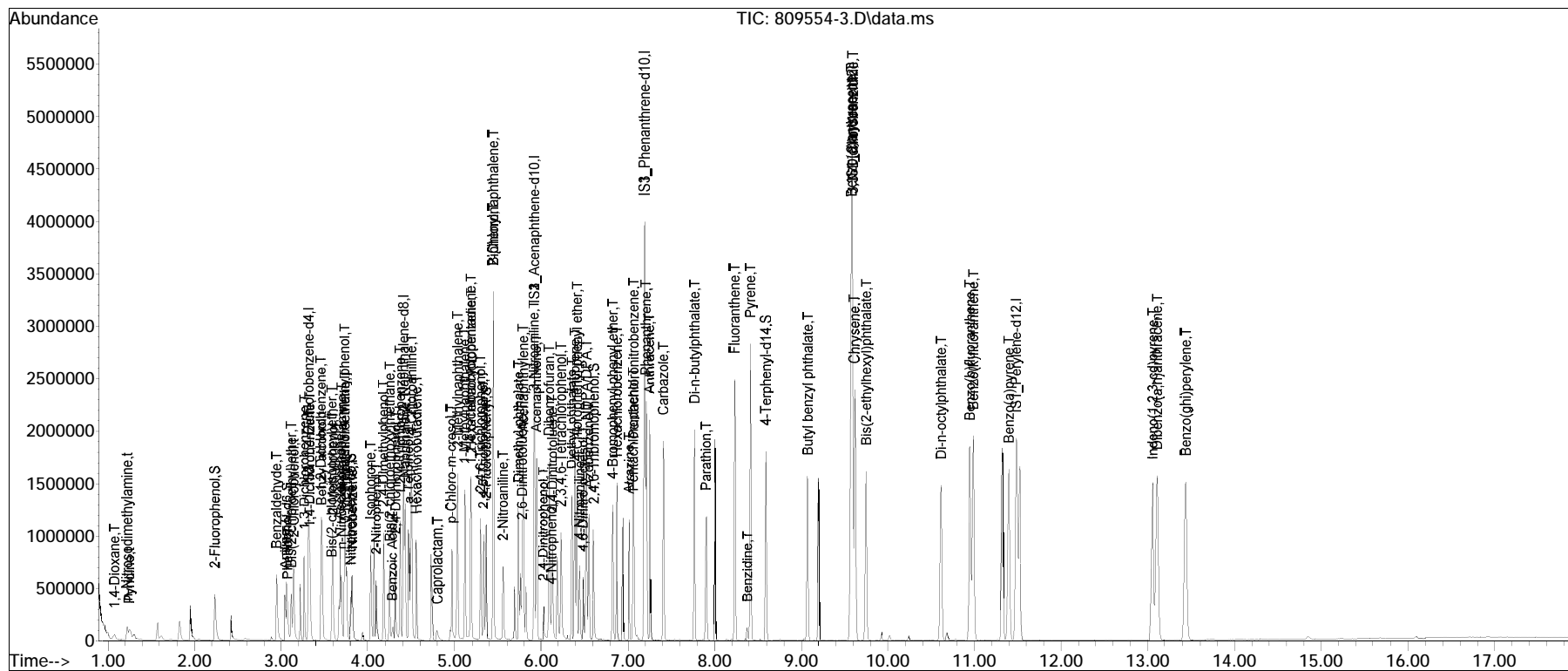
(#) = qualifier out of range (m) = manual integration (+) = signals summed

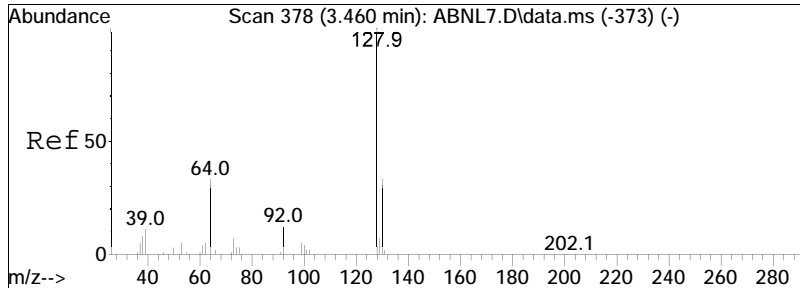
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Juliet\230801n\
 Data File : 809554-3.D
 Acq On : 2 Aug 2023 2:30 am
 Operator : Juliet:mg
 Sample : WG1809554-3,32,,ASK
 Misc : WG1810591,WG1809554,ical20193
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 03 22:46:56 2023
 Quant Method : I:\8270\Juliet\230801n\FS230721Juliet.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 12:06:53 2023
 Response via : Initial Calibration

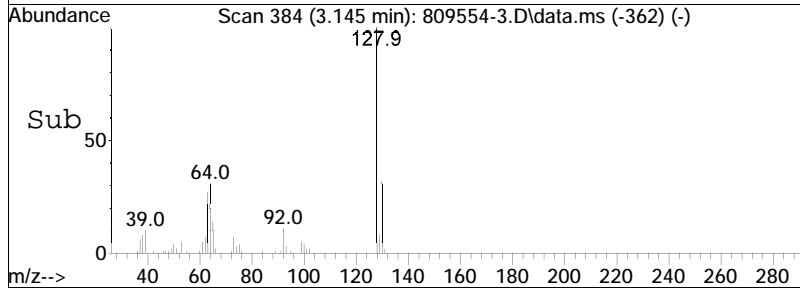
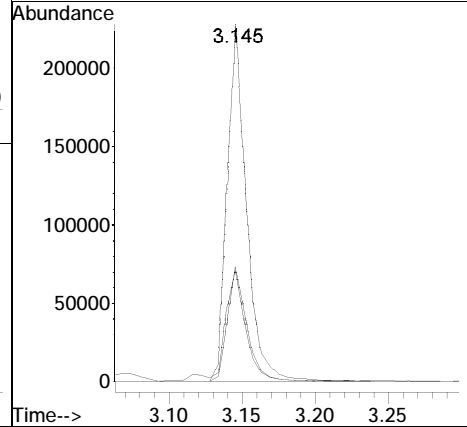
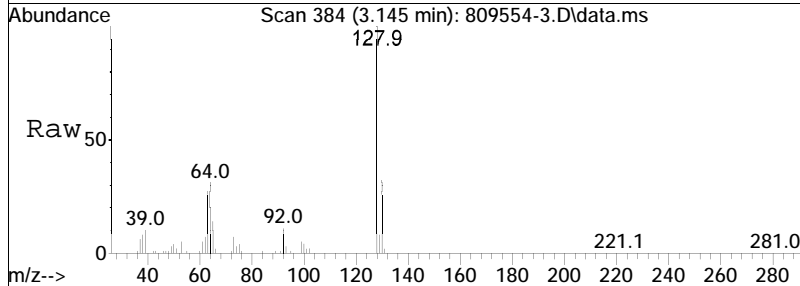
Sub List : 8270TCL_REV2 - TCL/CT/MA1n\AP90801n.D•

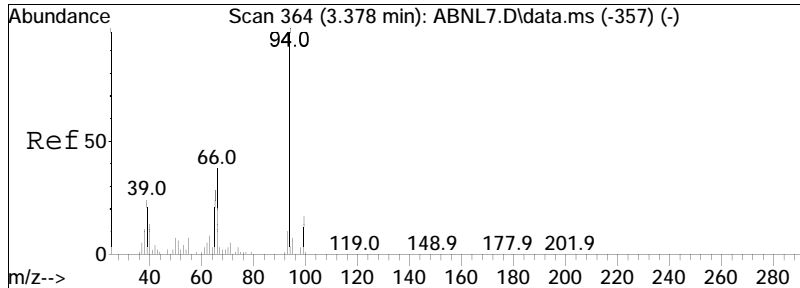




#6
 2-Chlorophenol
 Concen: 31.06 ug/ml
 RT: 3.145 min Scan# 384
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

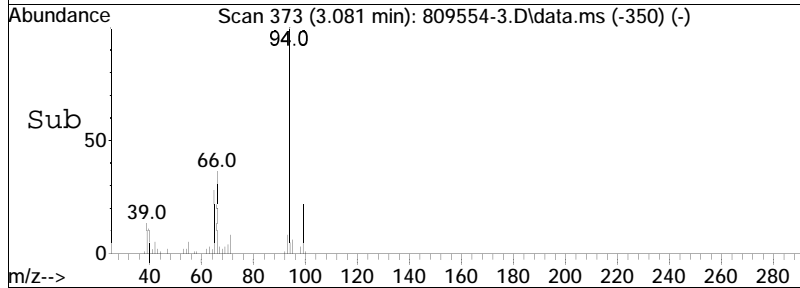
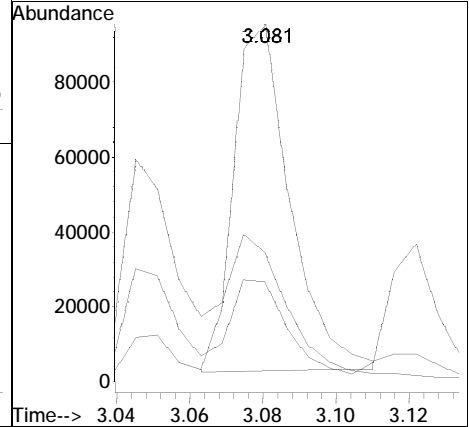
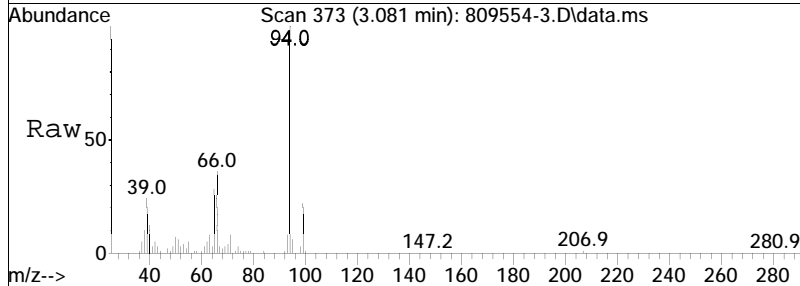
Tgt Ion	Ratio	Lower	Upper
128	100		
64	34.0	33.4	50.0
130	32.3	26.2	39.2

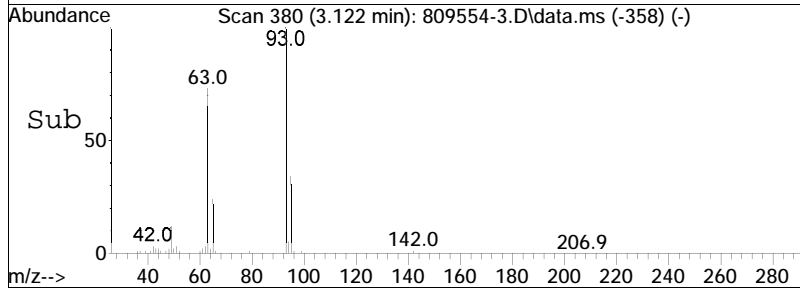
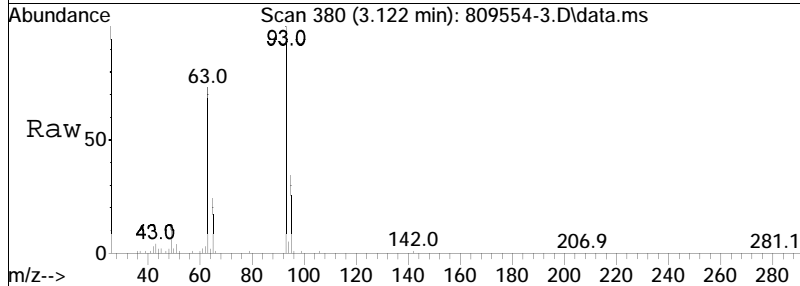
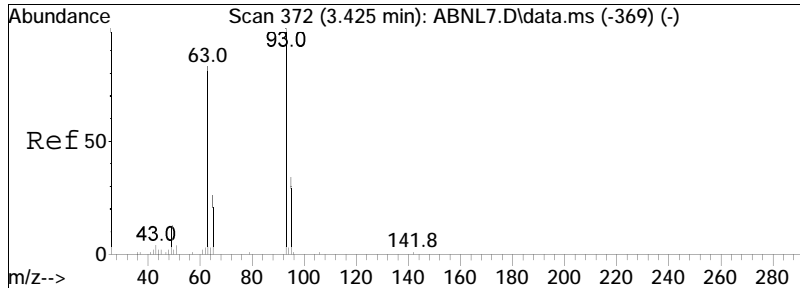




#8
 Phenol
 Concen: 12.90 ug/ml
 RT: 3.081 min Scan# 373
 Delta R.T. 0.009 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

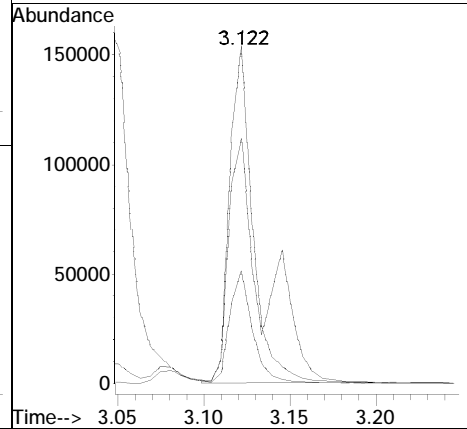
Tgt Ion:	94	Resp:	99432
Ion Ratio	Lower	Upper	
94	100		
65	31.4	19.4	29.0#
66	49.2	60.4	90.6#

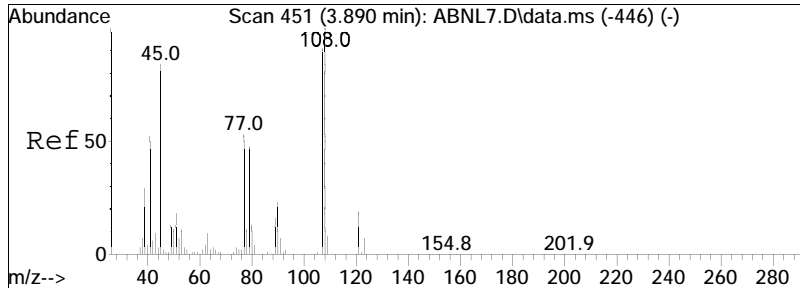




#9
 Bis(2-chloroethyl)ether
 Concen: 28.07 ug/ml
 RT: 3.122 min Scan# 380
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

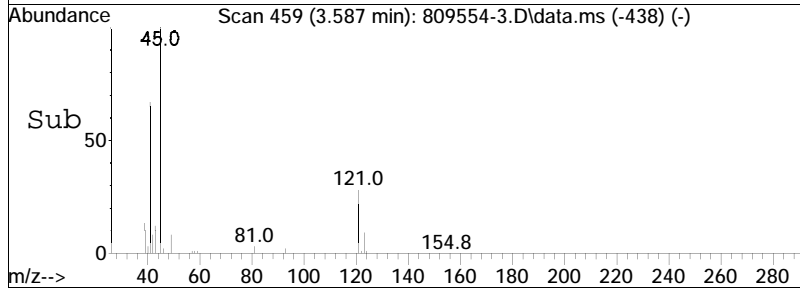
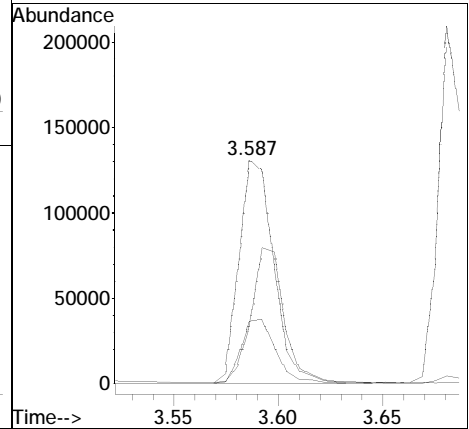
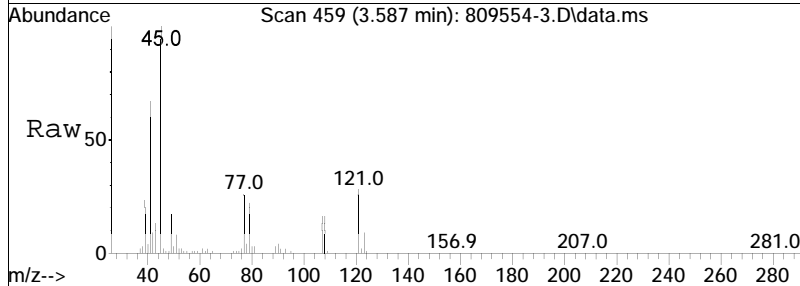
Tgt Ion:	93	Resp:	144053
Ion Ratio	Lower	Upper	
93	100		
63	71.5	70.4	105.6
95	33.2	26.6	39.8

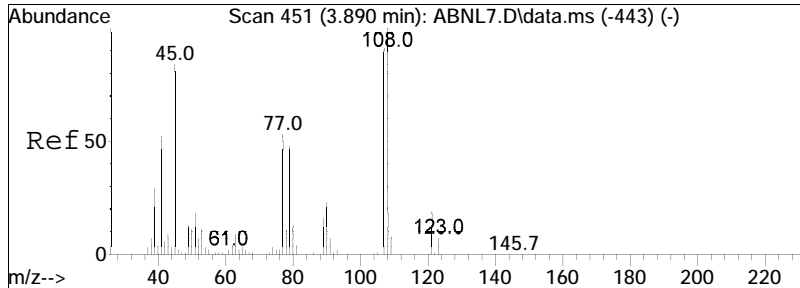




#14
 Bis(2-chloroisopropyl) ether
 Concen: 24.18 ug/ml
 RT: 3.587 min Scan# 459
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

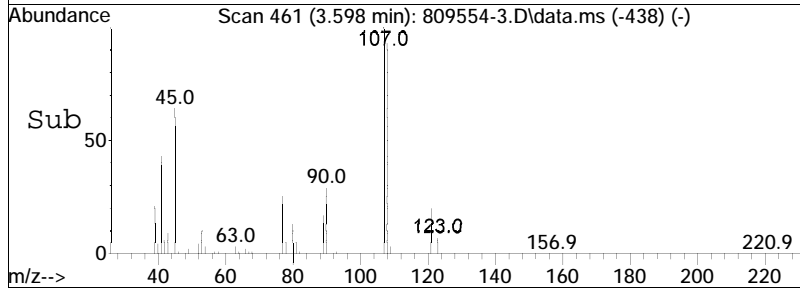
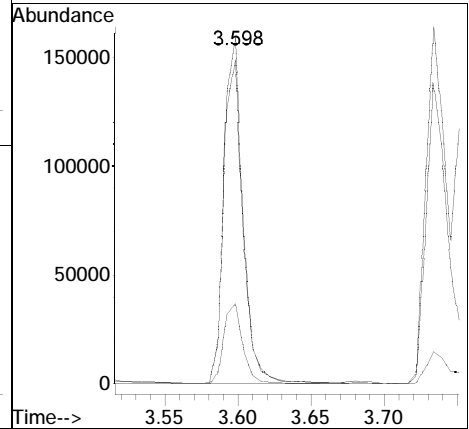
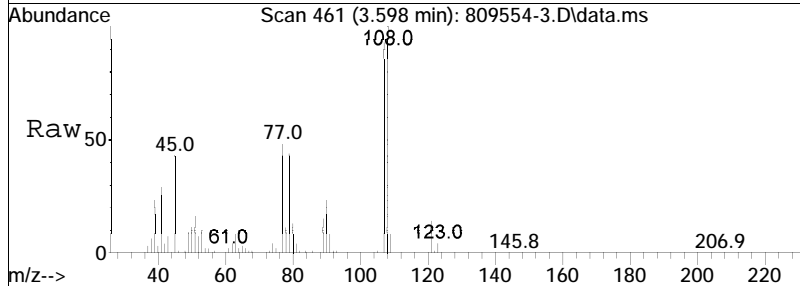
Tgt Ion:	45	Resp:	151305
Ion Ratio	Lower	Upper	
45	100		
121	28.5	13.7	20.5#
77	57.2	28.2	42.2#

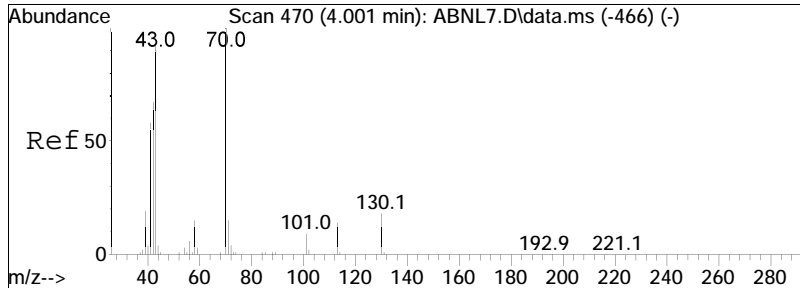




#15
 2-Methylphenol
 Concen: 26.38 ug/ml
 RT: 3.598 min Scan# 461
 Delta R.T. 0.009 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

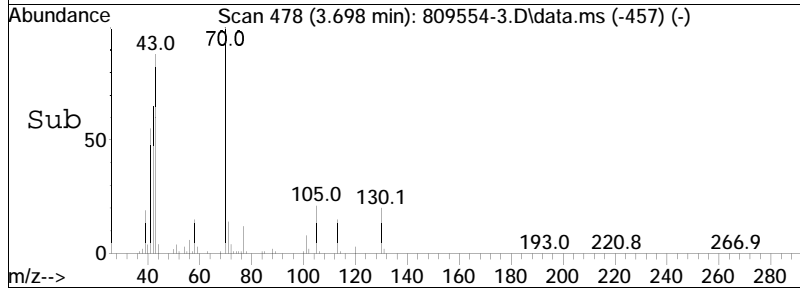
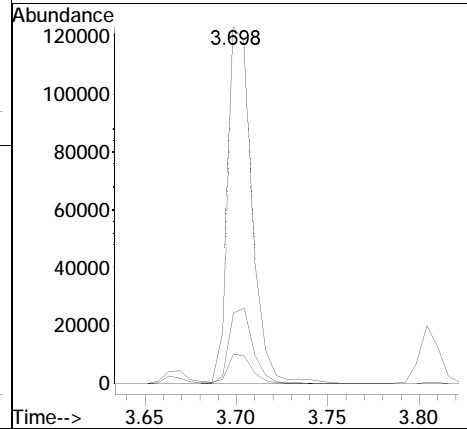
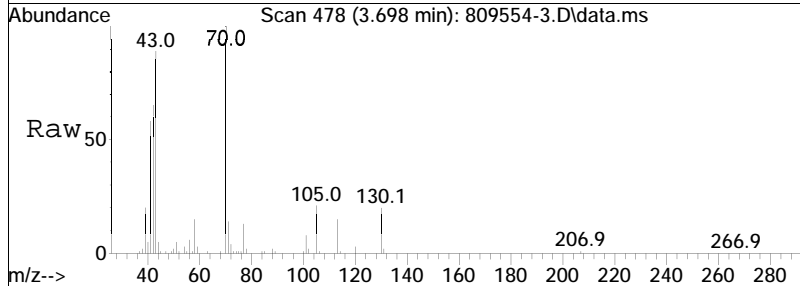
Tgt Ion	Ratio	Lower	Upper
108	100		
107	94.7	72.6	108.8
90	23.4	18.6	27.8

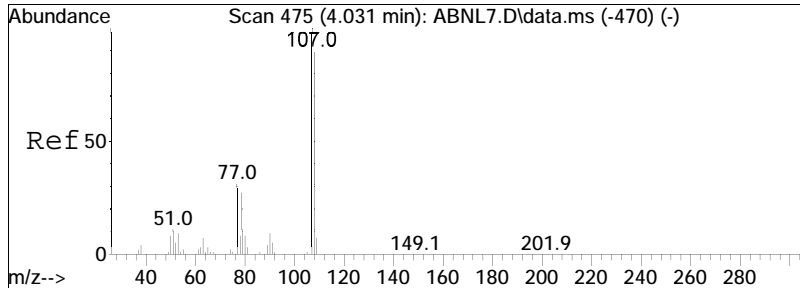




#17
 n-Nitrosodi-n-propylamine
 Concen: 27.99 ug/ml
 RT: 3.698 min Scan# 478
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

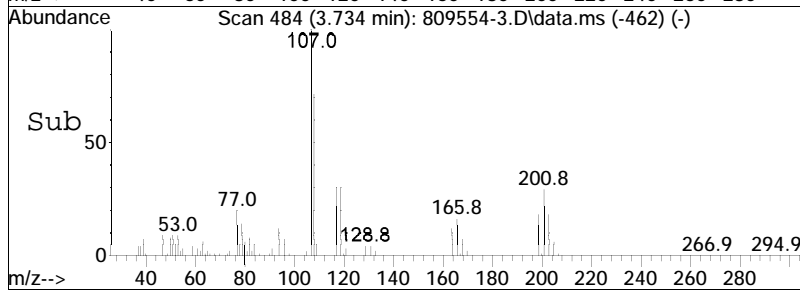
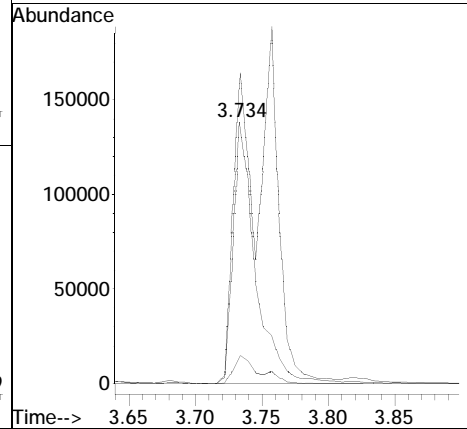
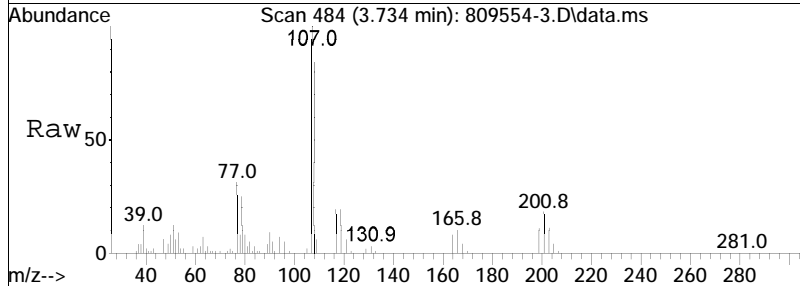
Tgt Ion	Resp	Lower	Upper
70	112870		
130	20.9	15.7	23.5
101	8.4	6.7	10.1

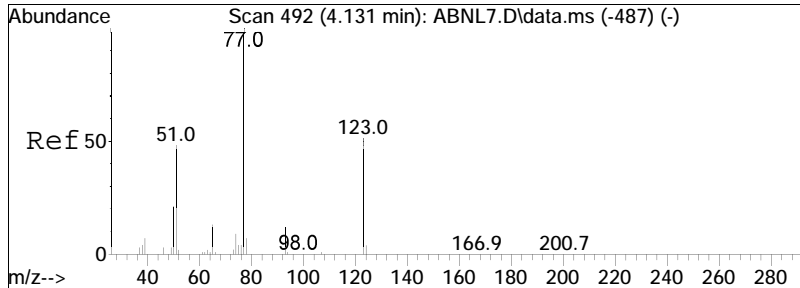




#18
 3-Methylphenol/4-Methylphenol
 Concen: 28.22 ug/ml
 RT: 3.734 min Scan# 484
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

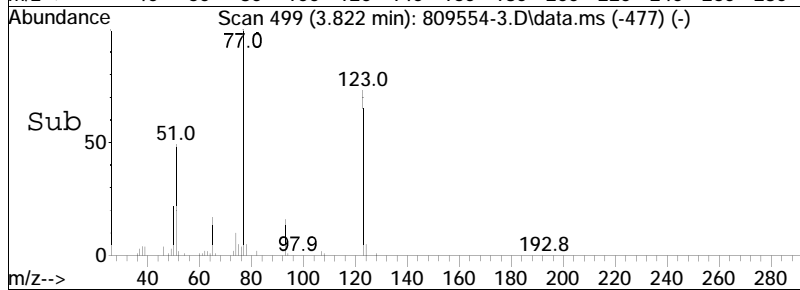
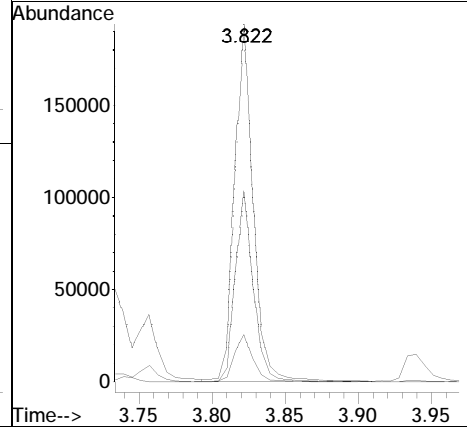
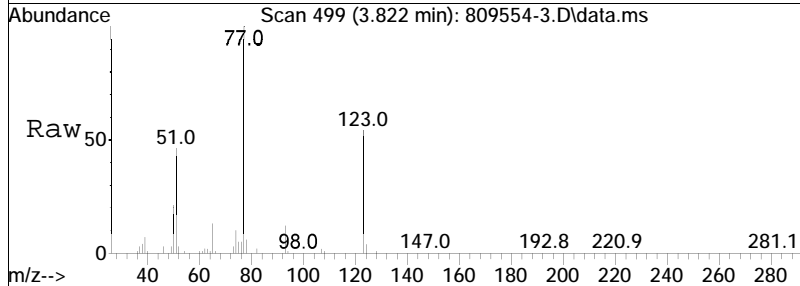
Tgt Ion	Resp	Lower	Upper
108	162243		
107	95.1	90.7	136.1
90	12.5	8.6	13.0

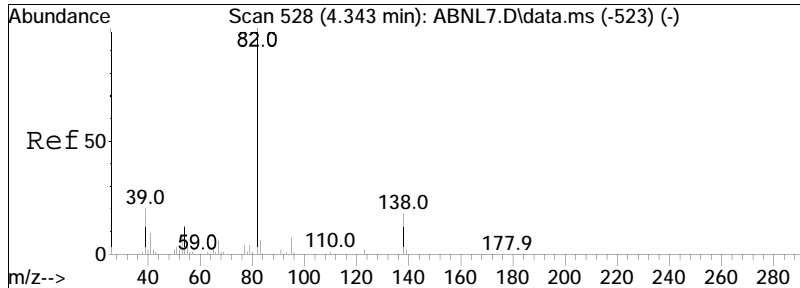




#20
 Nitrobenzene
 Concen: 28.10 ug/ml
 RT: 3.822 min Scan# 499
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

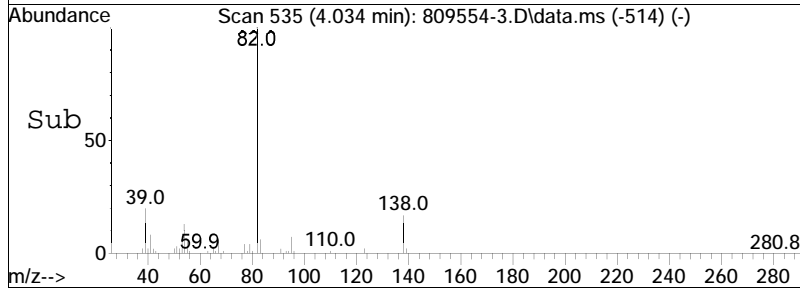
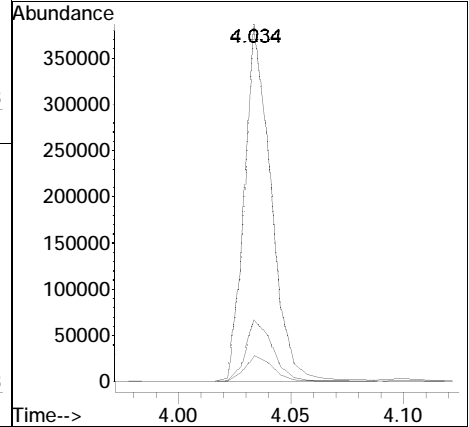
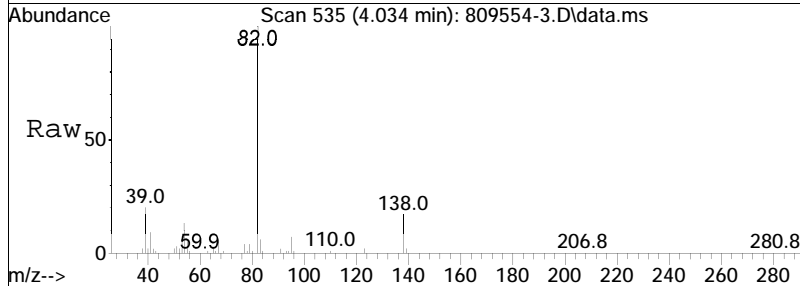
Tgt Ion:	Resp:	Lower	Upper
77	100		
123	52.6	41.4	62.0
65	13.6	11.0	16.4

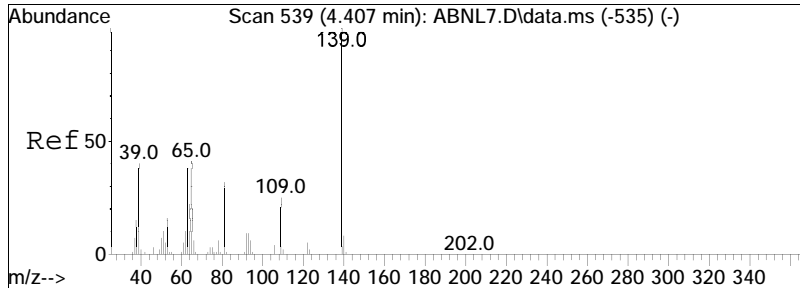




#21
 Isophorone
 Concen: 27.37 ug/ml
 RT: 4.034 min Scan# 535
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

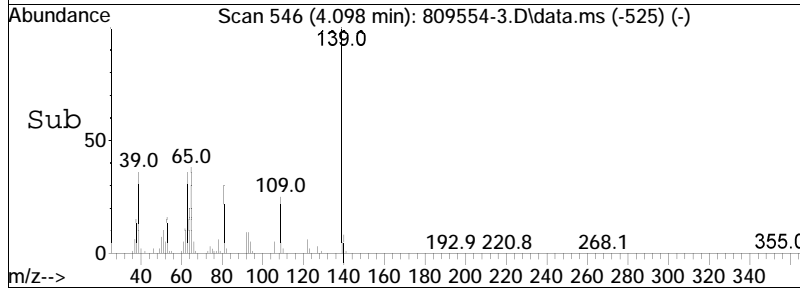
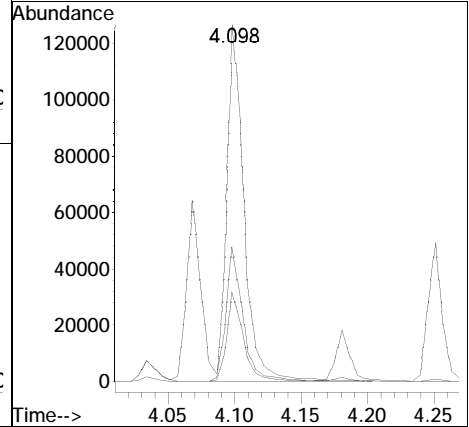
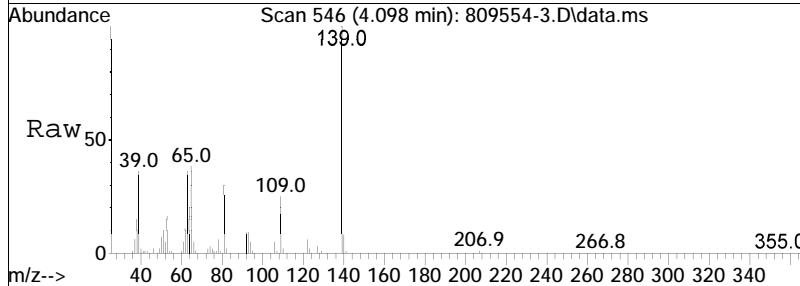
Tgt Ion	Resp	Lower	Upper
82	314170		
138	17.8	13.9	20.9
95	7.8	5.3	7.9

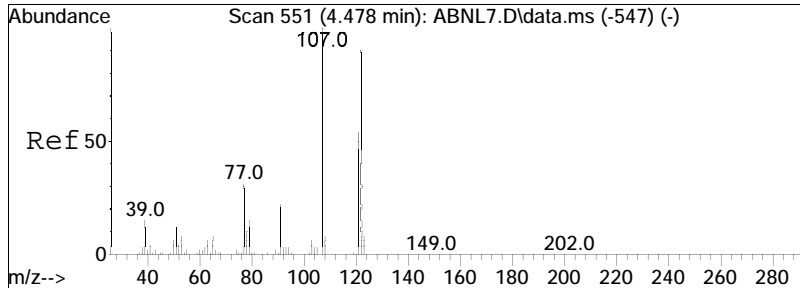




#22
 2-Nitrophenol
 Concen: 31.17 ug/ml
 RT: 4.098 min Scan# 546
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

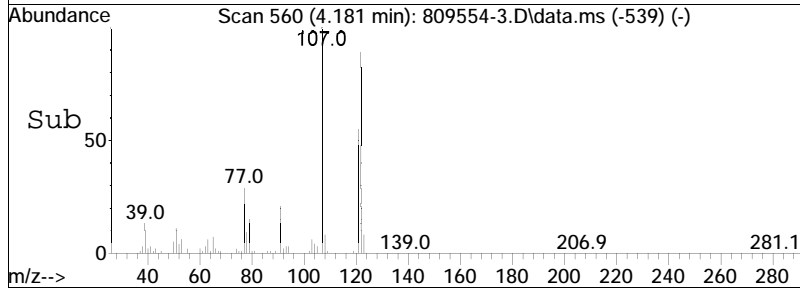
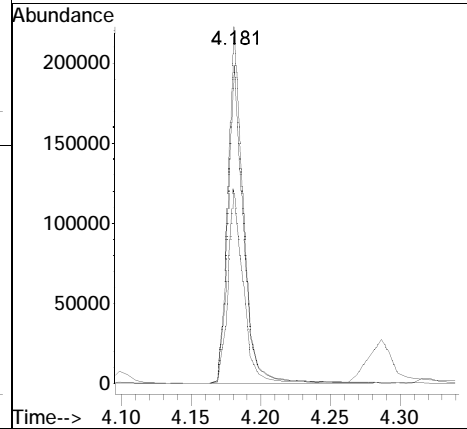
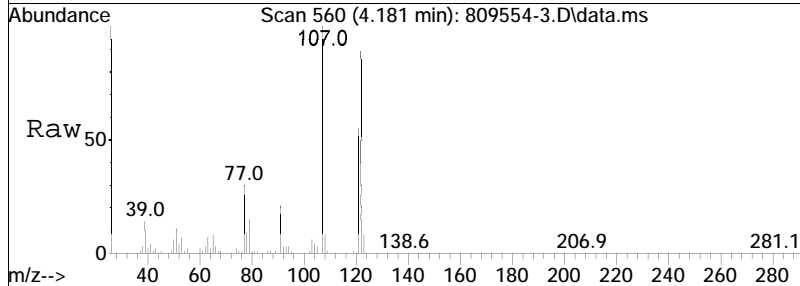
Tgt Ion	Ratio	Lower	Upper
139	100		
109	24.4	17.5	26.3
65	36.0	33.2	49.8

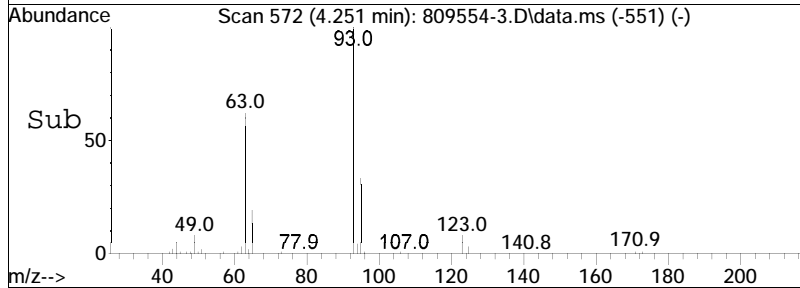
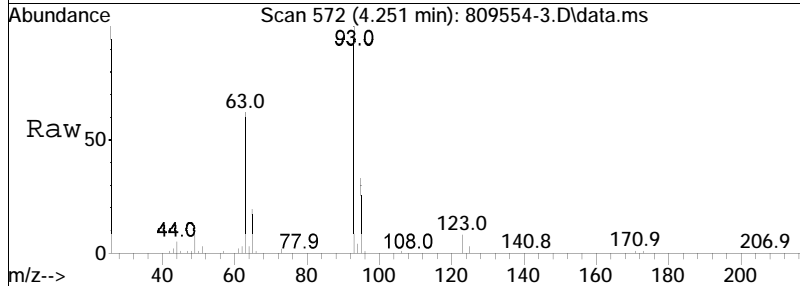
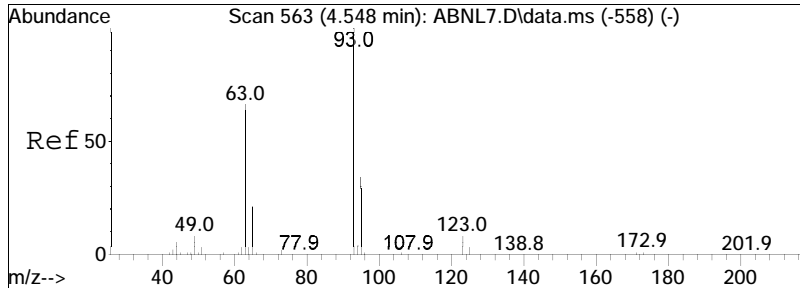




#23
 2,4-Dimethylphenol
 Concen: 27.26 ug/ml
 RT: 4.181 min Scan# 560
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

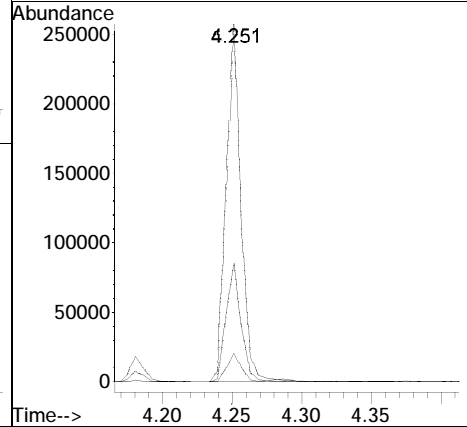
Tgt Ion	Resp	Lower	Upper
107	169951		
121	54.6	43.4	65.2
122	88.6	73.7	110.5

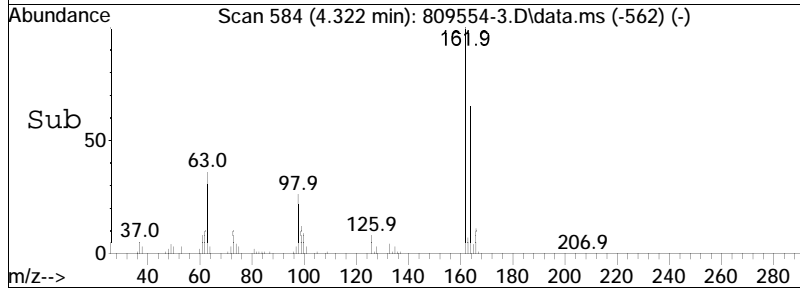
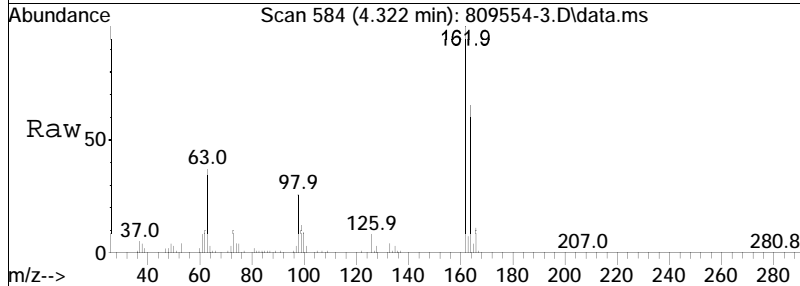
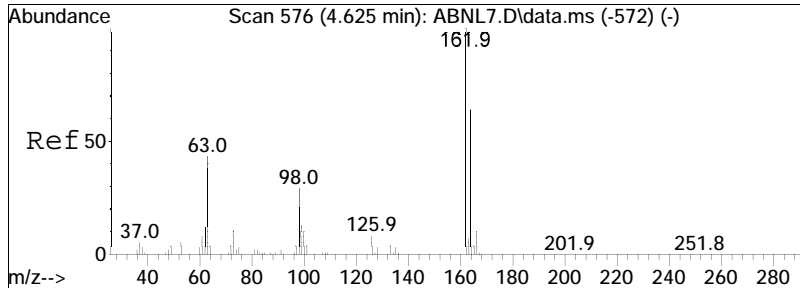




#24
 Bis(2-chloroethoxy)methane
 Concen: 27.87 ug/ml
 RT: 4.251 min Scan# 572
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

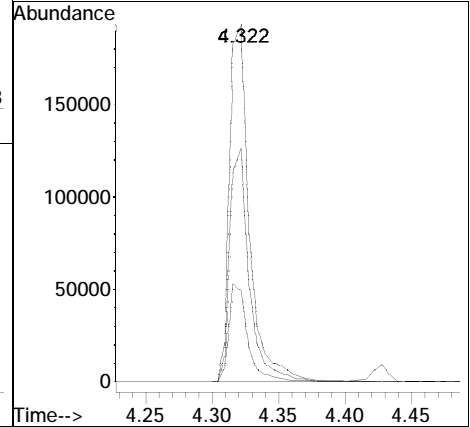
Tgt Ion:	93	Resp:	187908
Ion Ratio	Lower	Upper	
93	100		
95	33.9	27.2	40.8
123	8.0	7.6	11.4

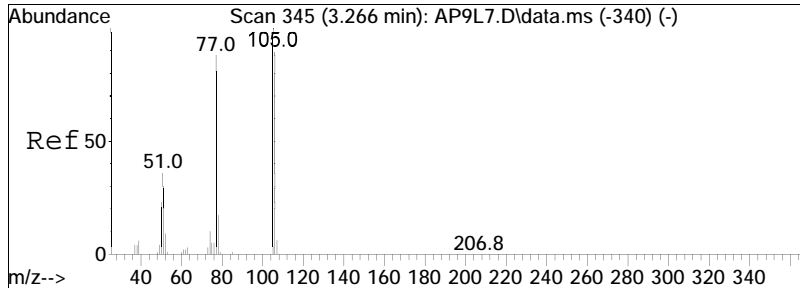




#25
 2,4-Dichlorophenol
 Concen: 32.20 ug/ml
 RT: 4.322 min Scan# 584
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

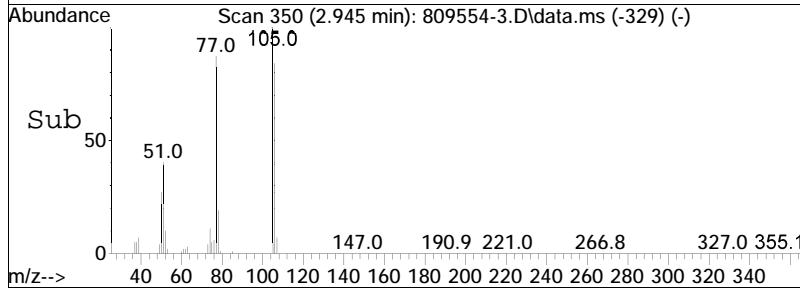
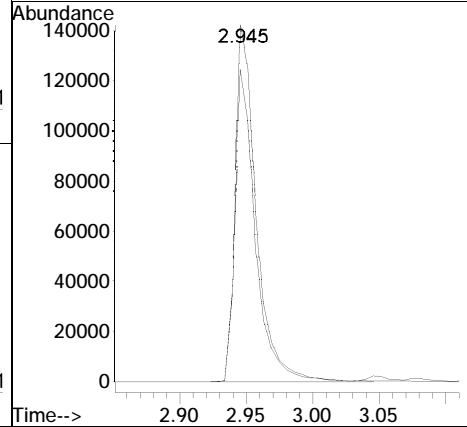
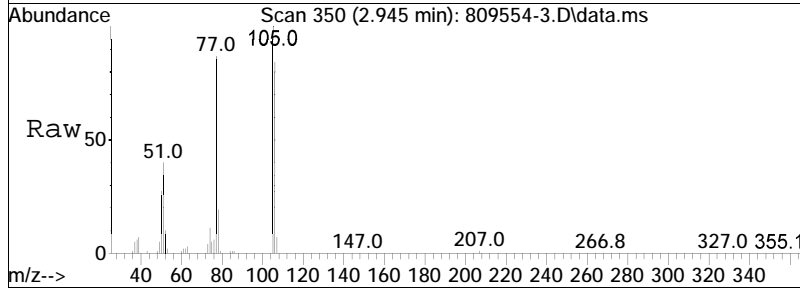
Tgt Ion	Ratio	Lower	Upper
162	100		
164	64.2	51.5	77.3
98	26.7	27.5	41.3#

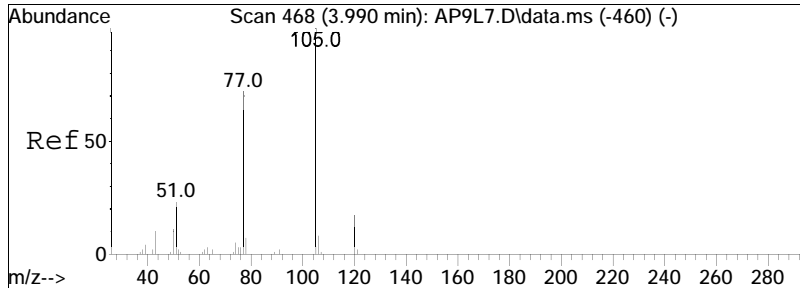




#28
 Benzaldehyde
 Concen: 41.08 ug/ml
 RT: 2.945 min Scan# 350
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

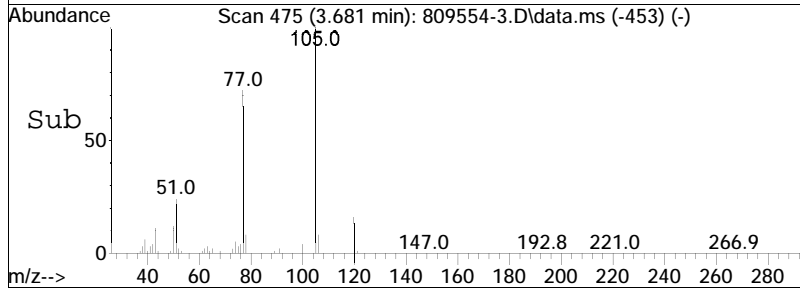
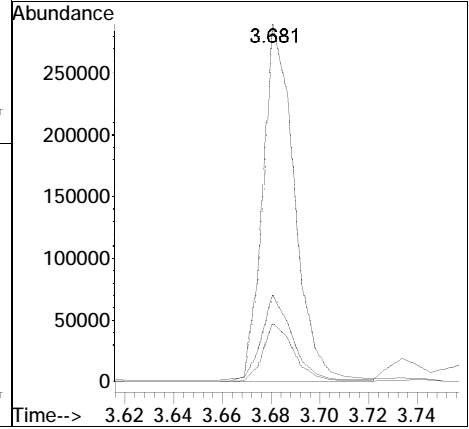
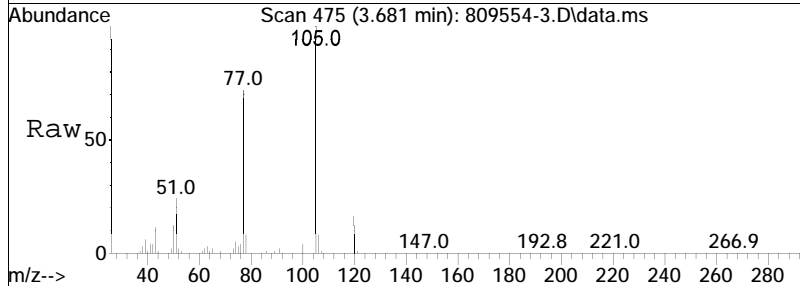
Tgt Ion	105	Resp	155745
Ion Ratio	Lower	Upper	
105	100		
77	85.5	76.4	114.6

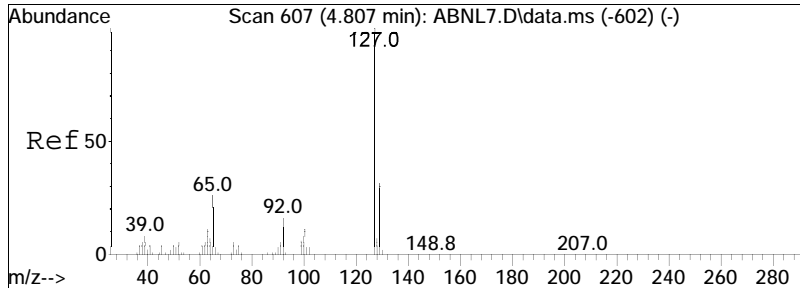




#29
 Acetophenone
 Concen: 32.16 ug/ml
 RT: 3.681 min Scan# 475
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

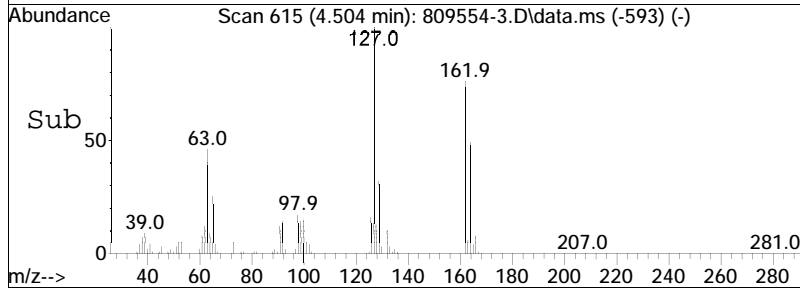
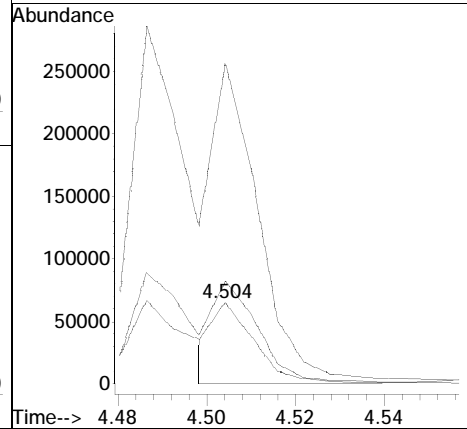
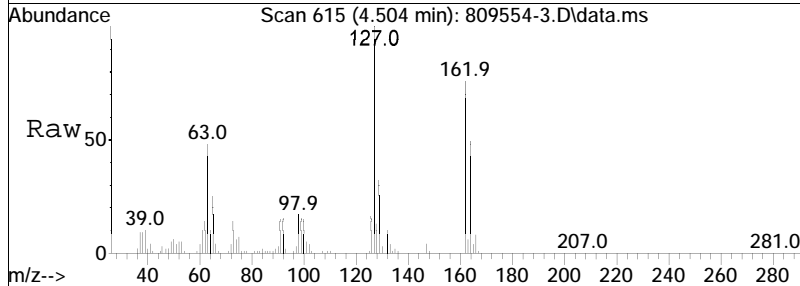
Tgt Ion	Ratio	Lower	Upper
105	100		
120	15.9	14.5	21.7
51	23.7	22.2	33.4

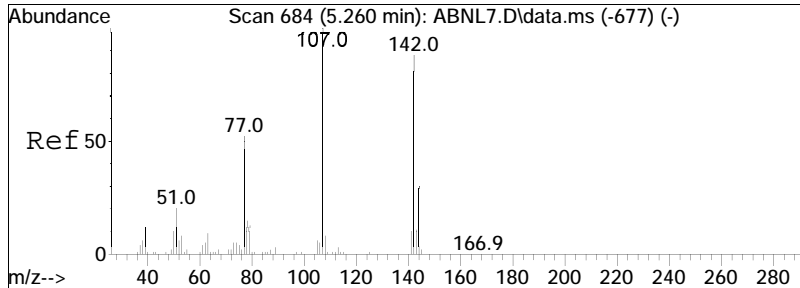




#38
 4-Chloroaniline
 Concen: 23.05 ug/ml M3
 RT: 4.504 min Scan# 615
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

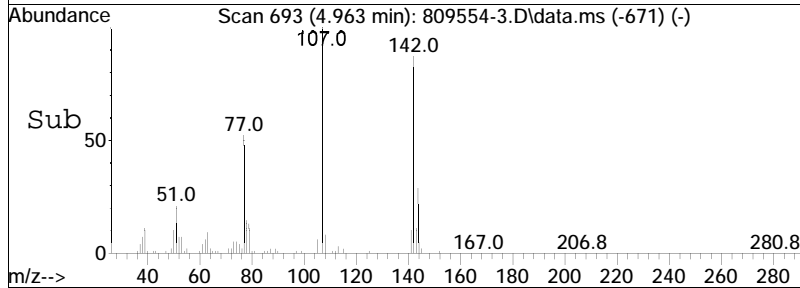
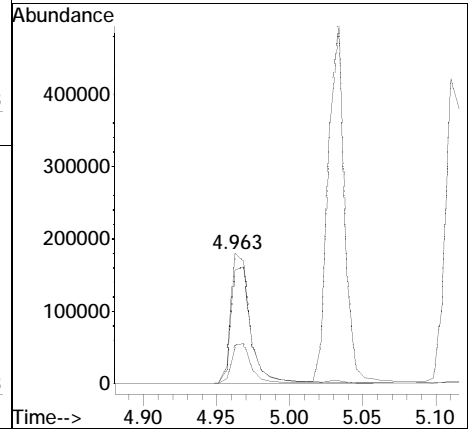
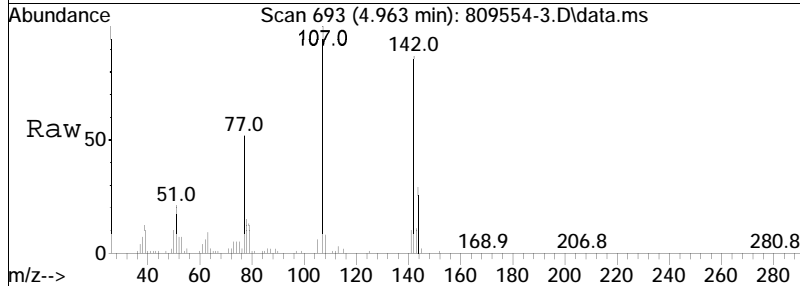
Tgt Ion:	Resp:	Lower	Upper
65	100		
127	579.9	303.0	454.6#
129	182.0	99.3	148.9#

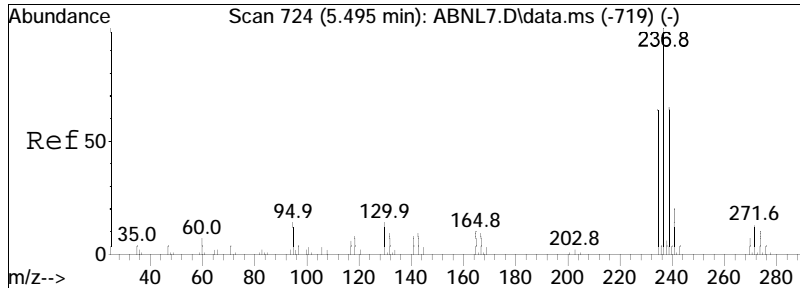




#40
 p-Chloro-m-cresol
 Concen: 32.15 ug/ml
 RT: 4.963 min Scan# 693
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

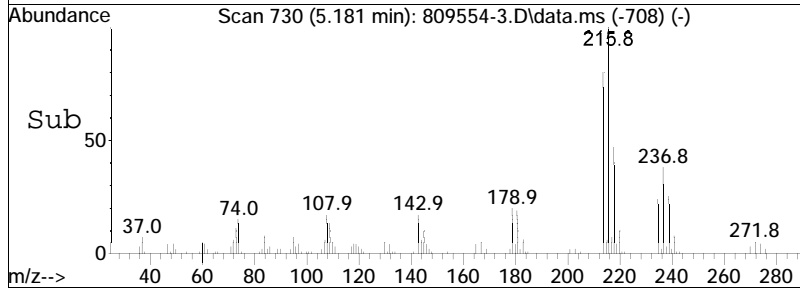
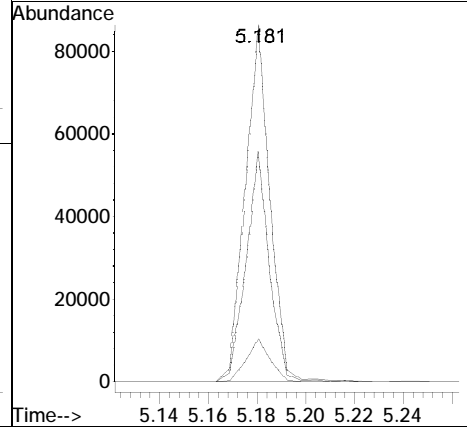
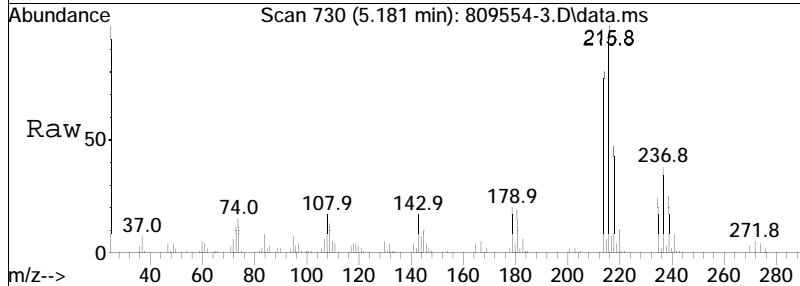
Tgt Ion	Resp	Lower	Upper
107	100		
144	30.7	22.6	33.8
142	90.5	69.7	104.5

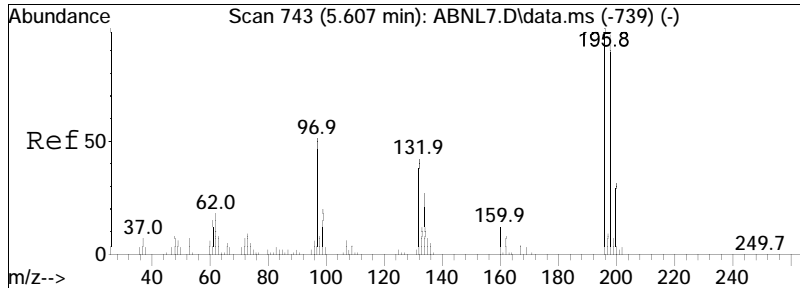




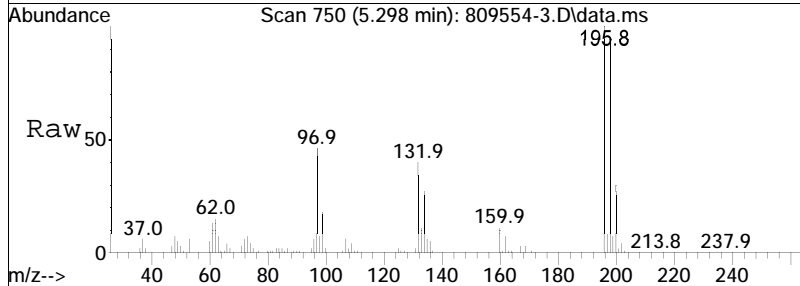
#43
 Hexachlorocyclopentadiene
 Concen: 19.22 ug/ml
 RT: 5.181 min Scan# 730
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

Tgt Ion	Resp	Lower	Upper
237	100		
235	61.3	50.8	76.2
272	11.7	10.4	15.6

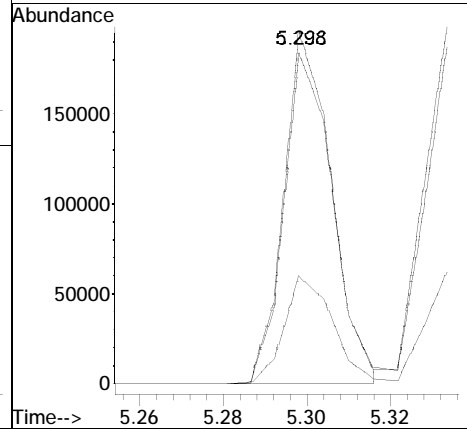
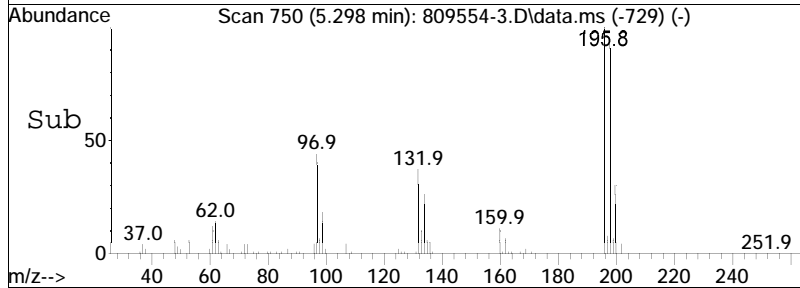


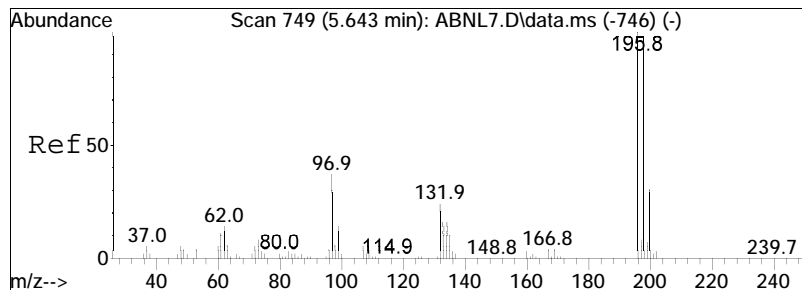


#44
 2,4,6-Trichlorophenol
 Concen: 34.45 ug/ml
 RT: 5.298 min Scan# 750
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am



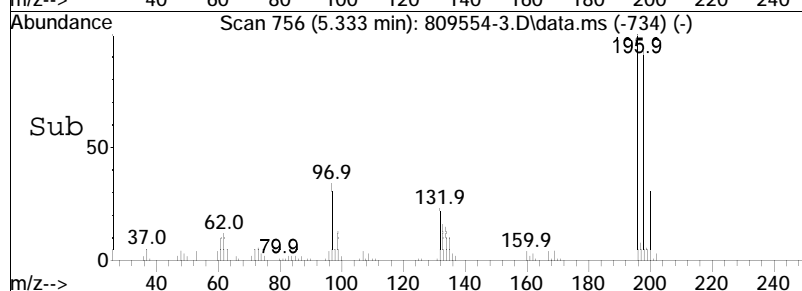
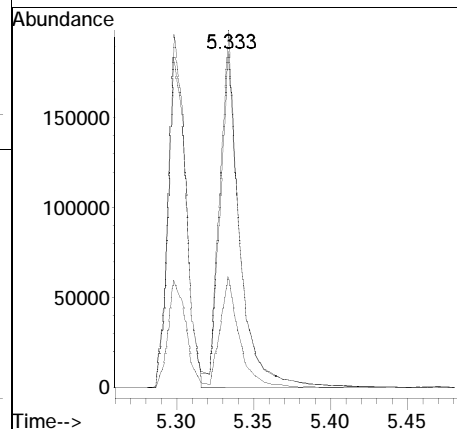
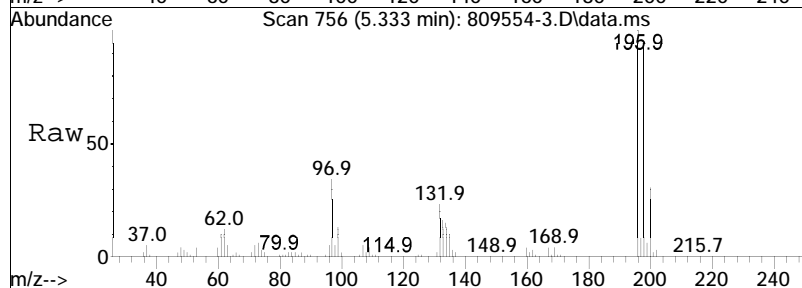
Tgt Ion	Resp	Lower	Upper
196	100		
198	97.3	76.8	115.2
200	31.7	25.0	37.4

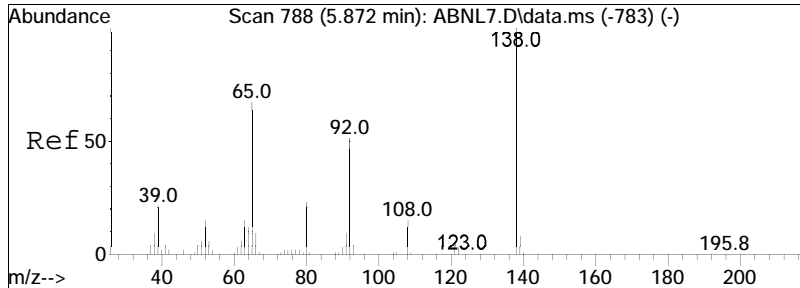




#45
 2,4,5-Trichlorophenol
 Concen: 35.67 ug/ml
 RT: 5.333 min Scan# 756
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

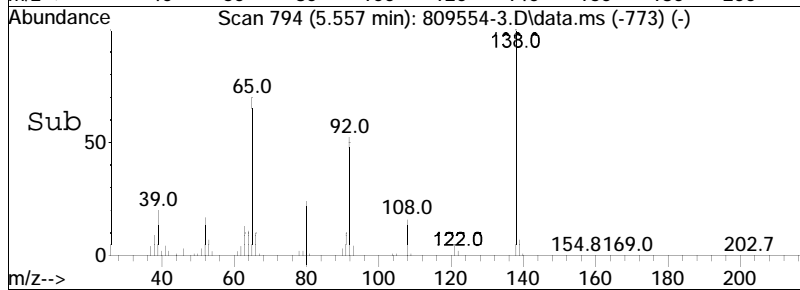
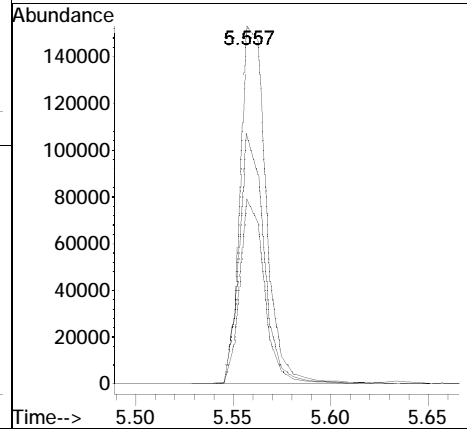
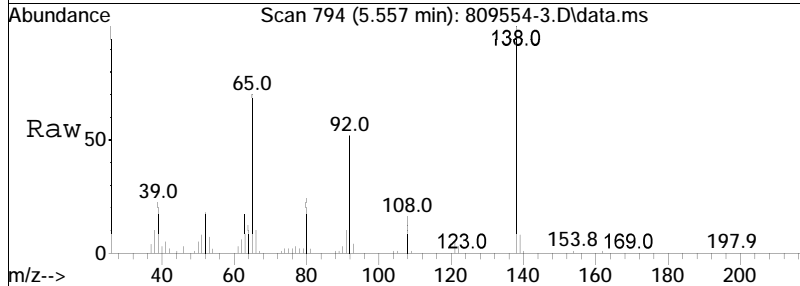
Tgt Ion	Resp	Lower	Upper
196	174985		
196	100		
200	30.4	25.4	38.0
198	93.6	79.1	118.7

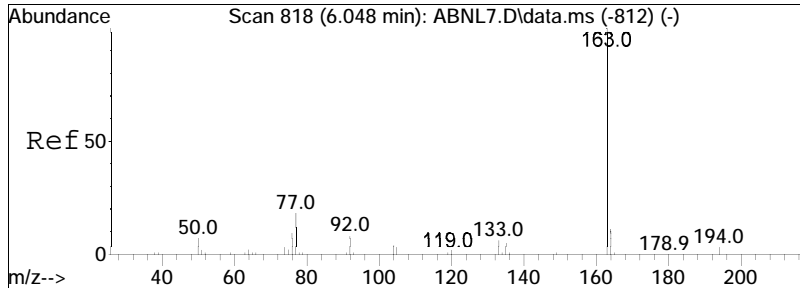




#48
 2-Nitroaniline
 Concen: 32.37 ug/ml
 RT: 5.557 min Scan# 794
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

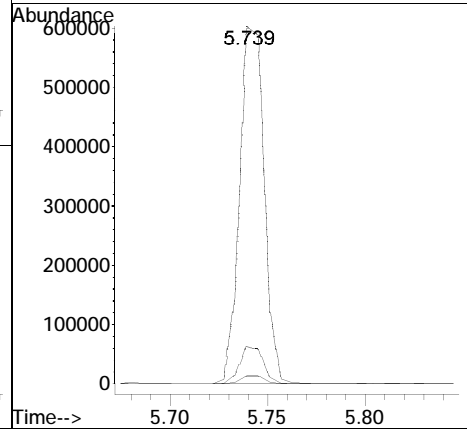
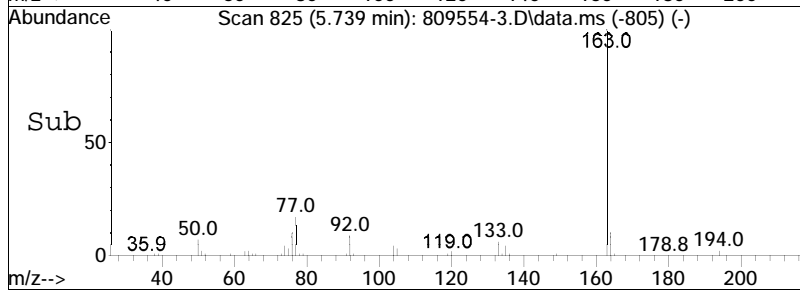
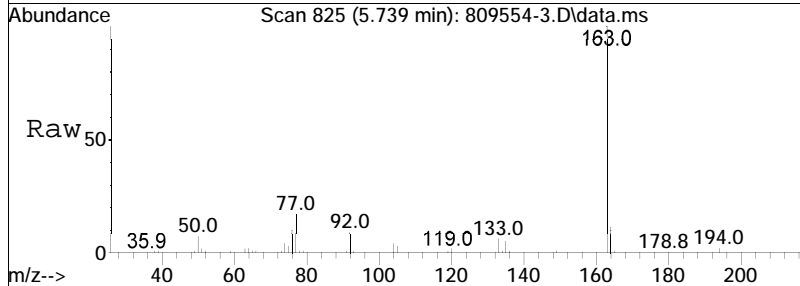
Tgt Ion	Ratio	Lower	Upper
138	100		
92	49.5	44.7	67.1
65	67.6	62.6	94.0

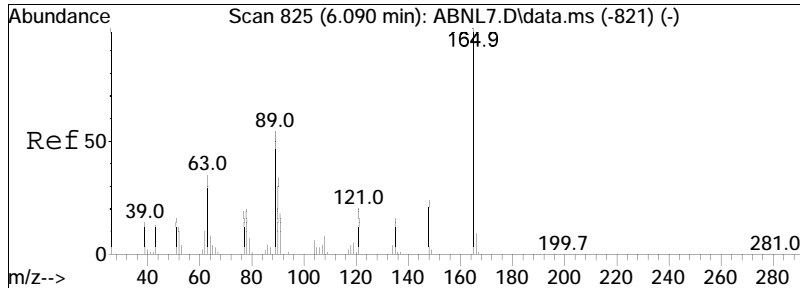




#51
 Dimethyl phthalate
 Concen: 32.45 ug/ml
 RT: 5.739 min Scan# 825
 Delta R.T. -0.009 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

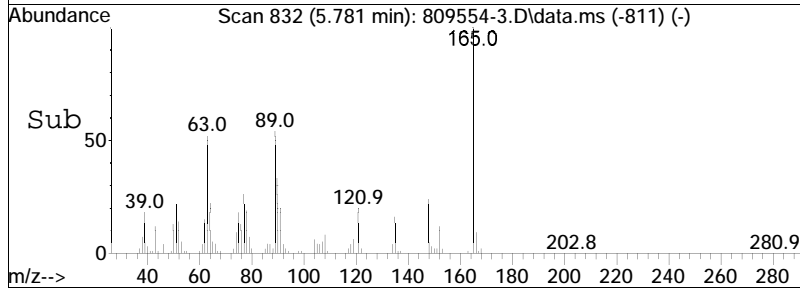
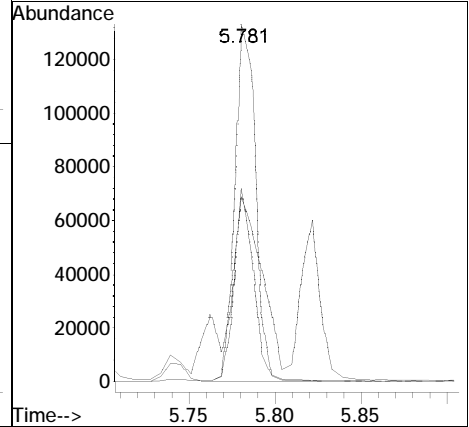
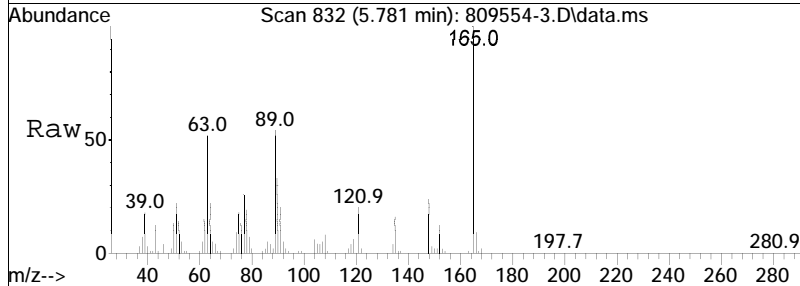
Tgt Ion	Resp	Lower	Upper
163	523580		
163	100		
194	2.3	2.0	3.0
164	10.3	8.6	12.8

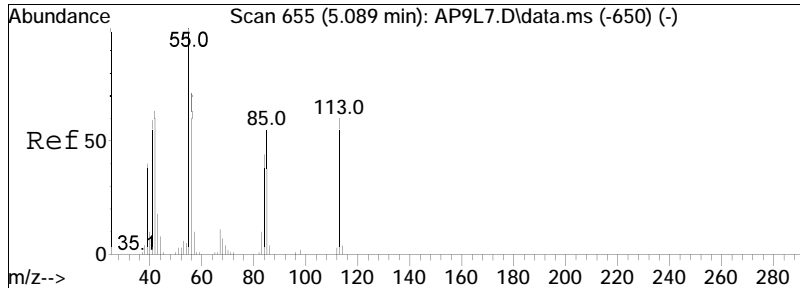




#53
 2,6-Dinitrotoluene
 Concen: 33.03 ug/ml
 RT: 5.781 min Scan# 832
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

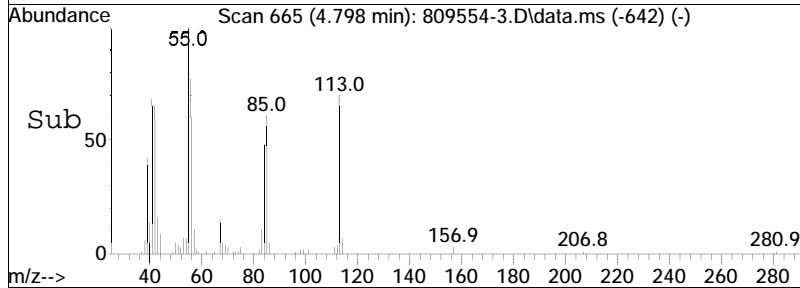
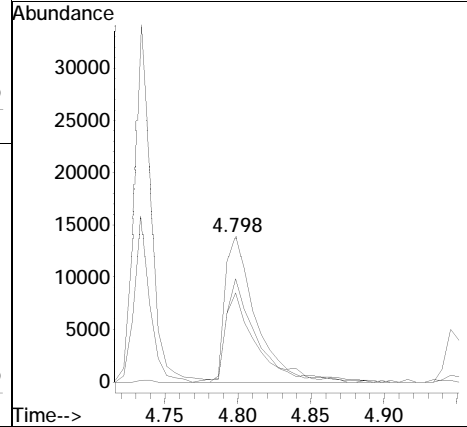
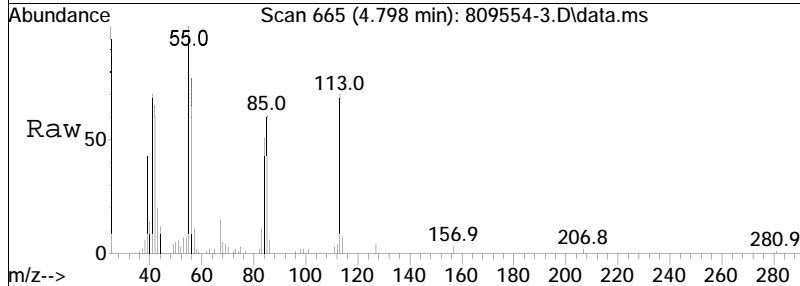
Tgt Ion	165	Resp	110576
Ion Ratio	100	Lower	Upper
89	50.6	39.0	58.6
63	93.8	38.5	57.7#

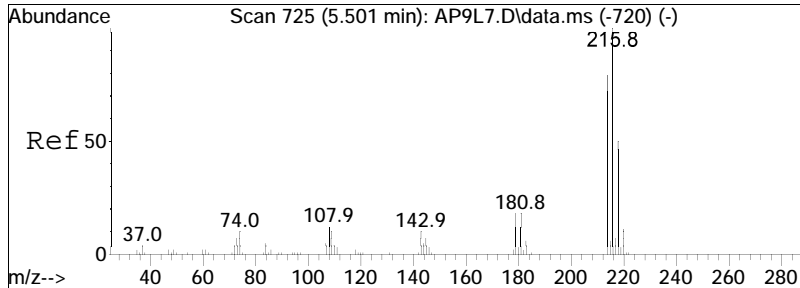




#60
 Caprolactam
 Concen: 10.30 ug/ml
 RT: 4.798 min Scan# 665
 Delta R.T. 0.009 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

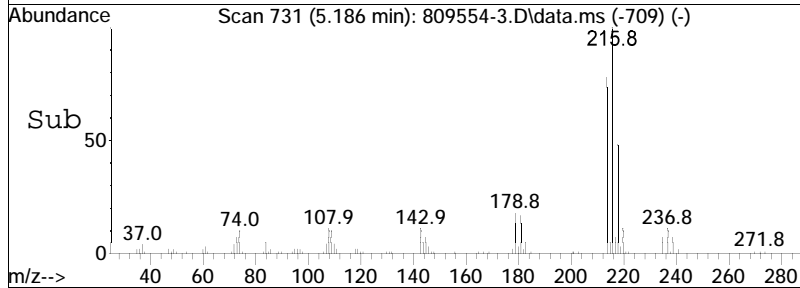
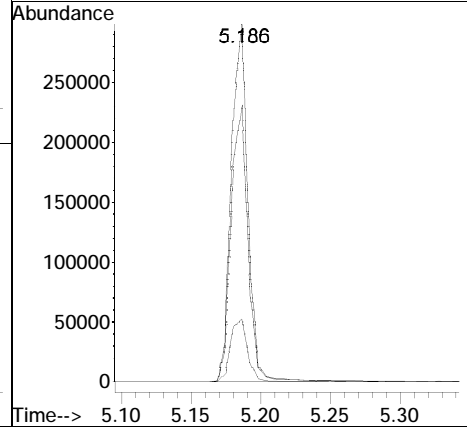
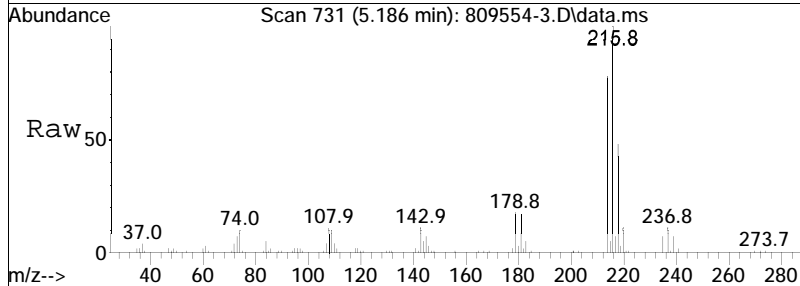
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
55	100		
85	61.2	40.2	60.2#
113	66.0	42.8	64.2#

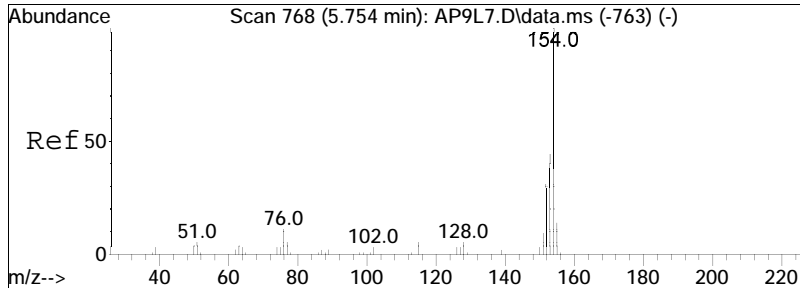




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 35.78 ug/ml
 RT: 5.186 min Scan# 731
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

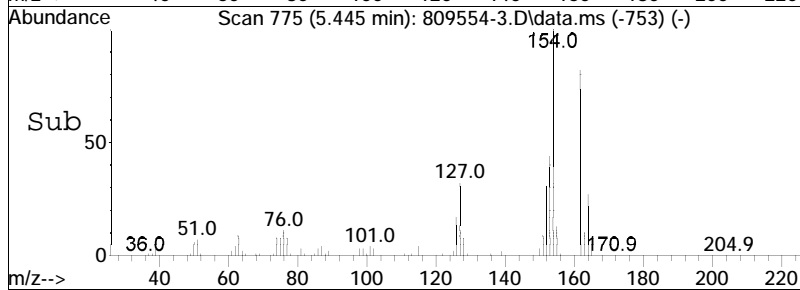
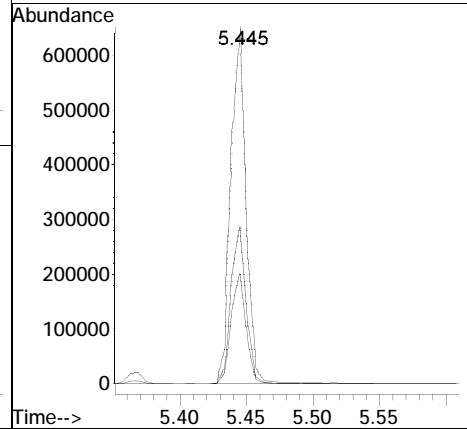
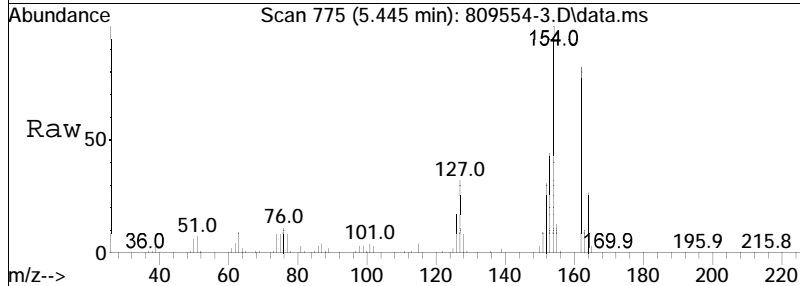
Tgt Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.4	95.2
179	18.5	16.4	24.6

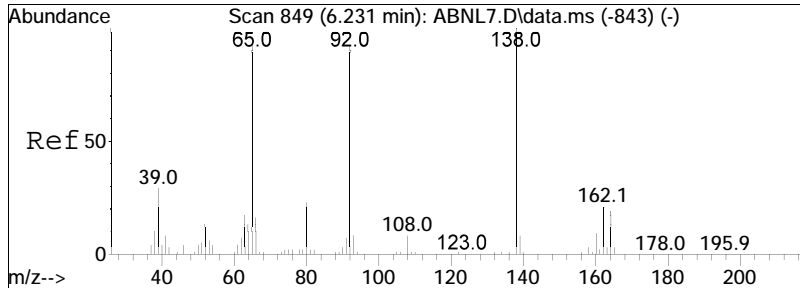




#62
 Biphenyl
 Concen: 34.23 ug/ml
 RT: 5.445 min Scan# 775
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

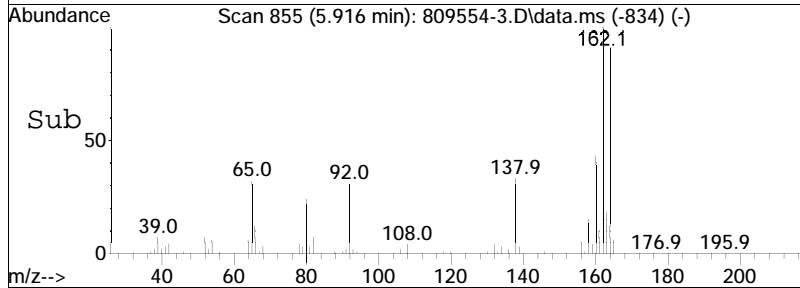
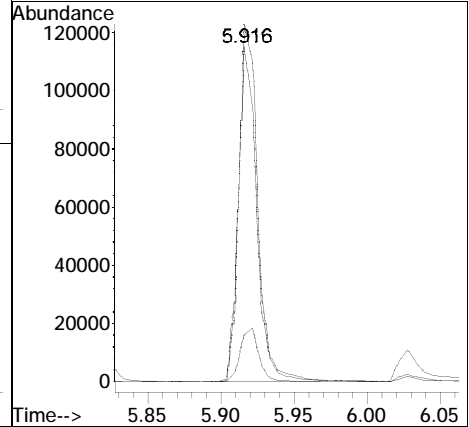
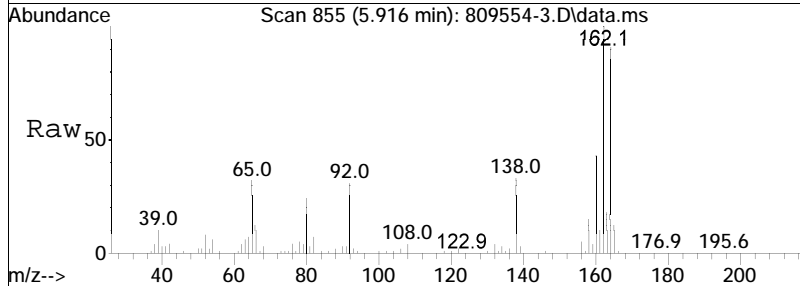
Tgt Ion	Resp	Lower	Upper
154	100		
153	44.2	34.7	52.1
152	30.8	24.0	36.0

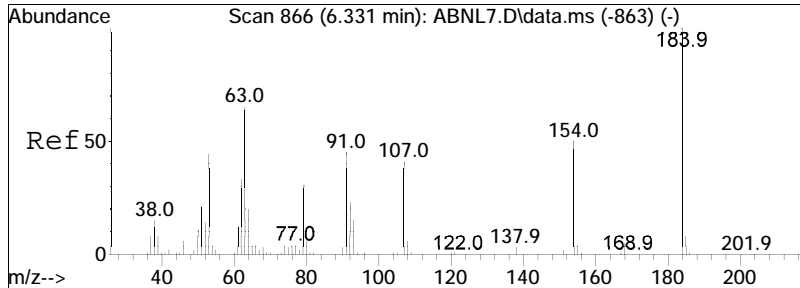




#64
 3-Nitroaniline
 Concen: 28.28 ug/ml
 RT: 5.916 min Scan# 855
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

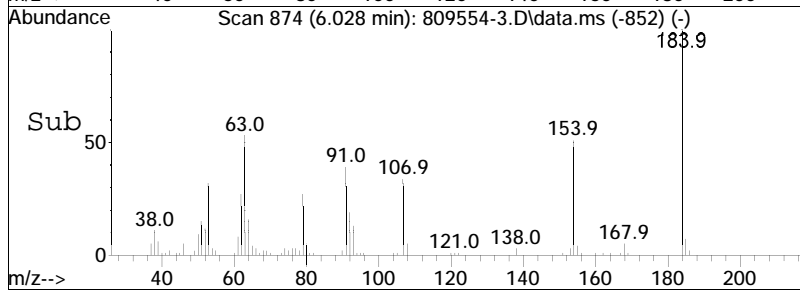
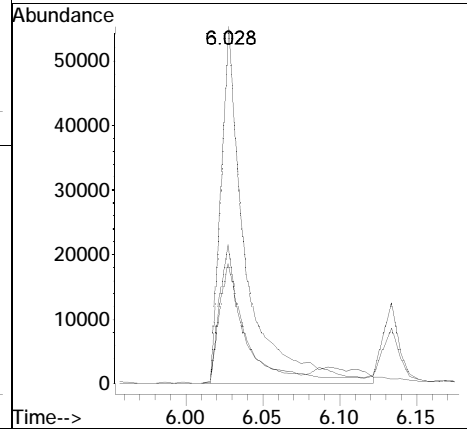
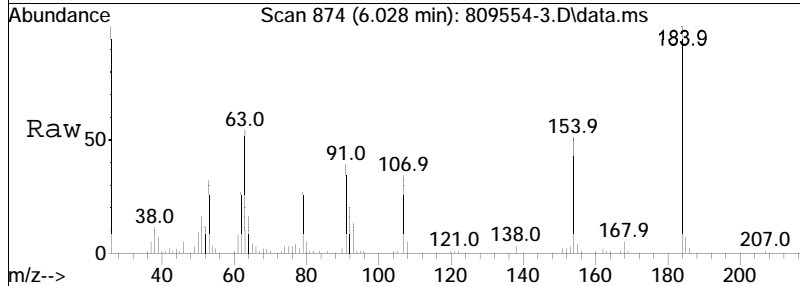
Tgt Ion	Resp	Lower	Upper
138	110063		
92	90.7	80.2	120.4
108	15.0	7.2	10.8#

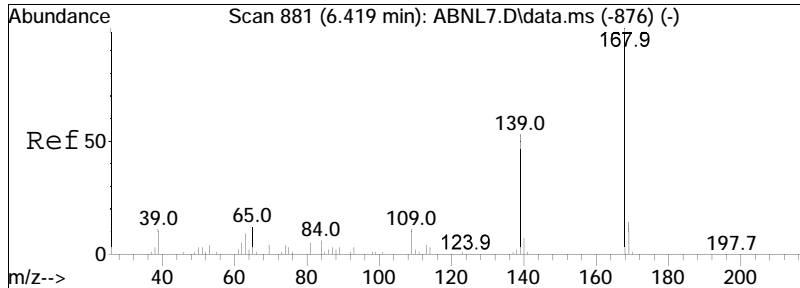




#66
 2,4-Dinitrophenol
 Concen: 30.86 ug/ml
 RT: 6.028 min Scan# 874
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

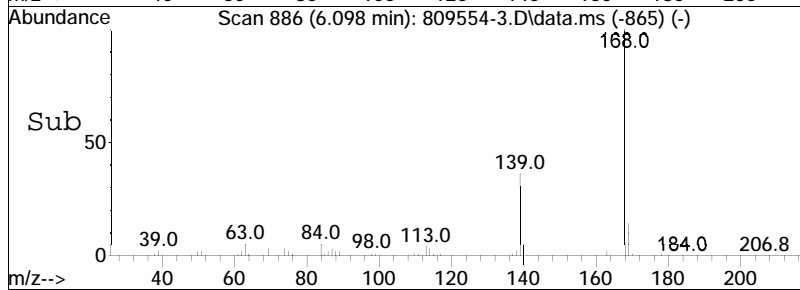
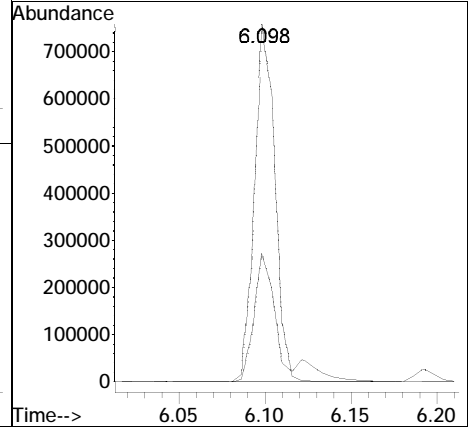
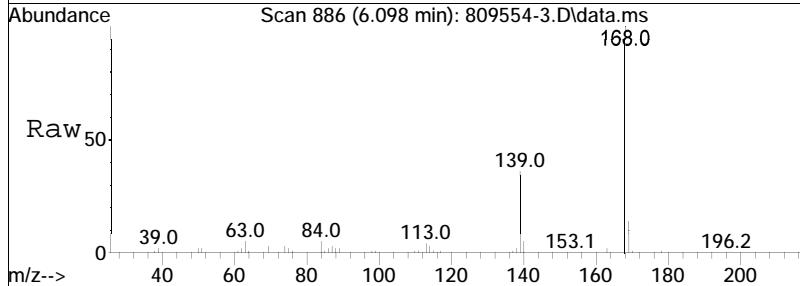
Tgt Ion	Ratio	Lower	Upper
184	100		
107	37.4	32.2	48.2
91	36.6	36.4	54.6

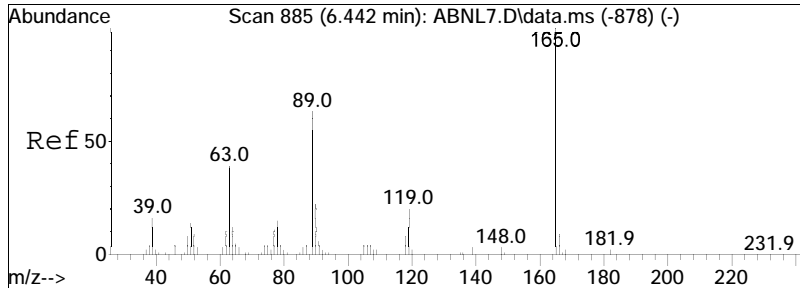




#67
 Dibenzofuran
 Concen: 32.68 ug/ml
 RT: 6.098 min Scan# 886
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

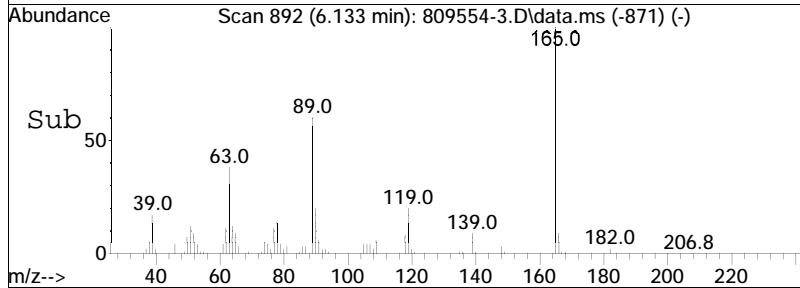
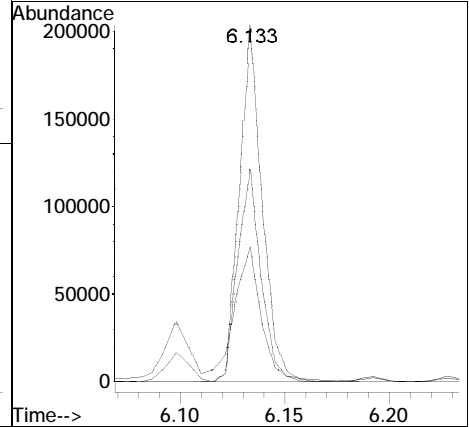
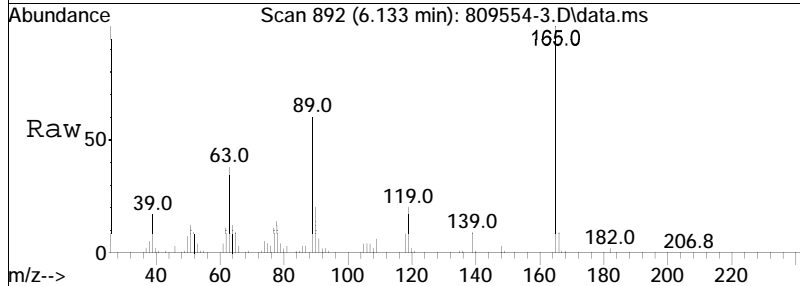
Tgt Ion	Resp	Lower	Upper
168	100		
139	35.9	44.5	66.7#

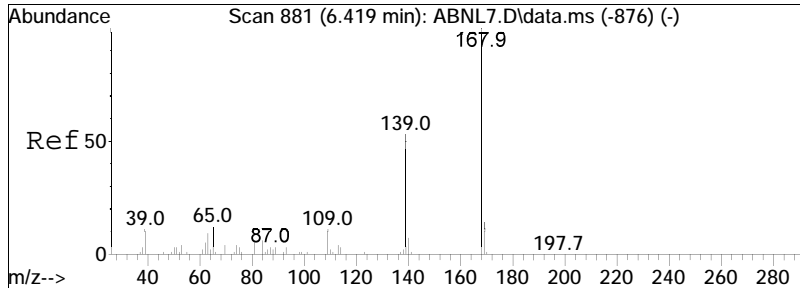




#68
 2,4-Dinitrotoluene
 Concen: 32.76 ug/ml
 RT: 6.133 min Scan# 892
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

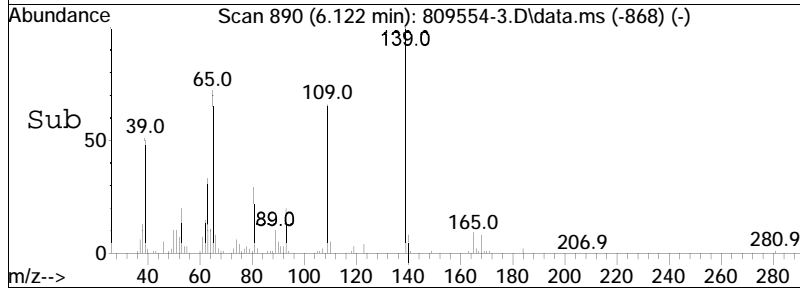
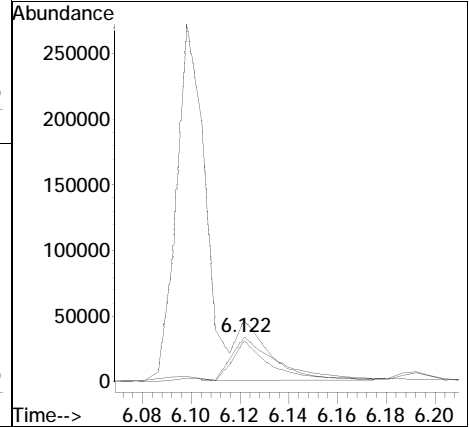
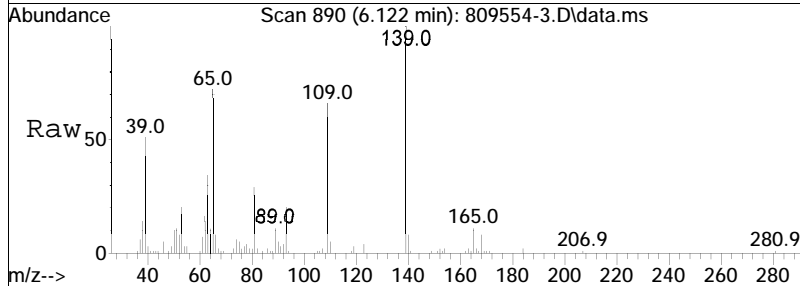
Tgt Ion	Ratio	Lower	Upper
165	100		
89	60.6	58.8	88.2
63	43.9	56.5	84.7#

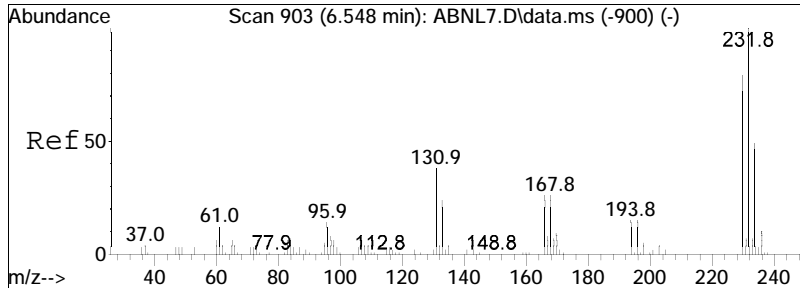




#69
 4-Nitrophenol
 Concen: 17.17 ug/ml
 RT: 6.122 min Scan# 890
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

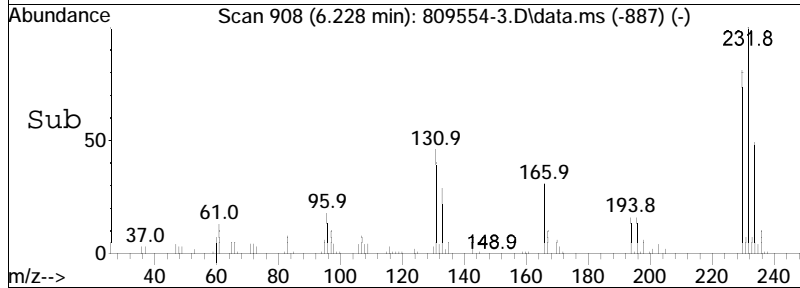
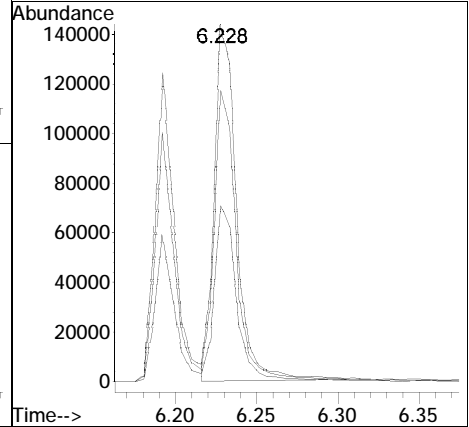
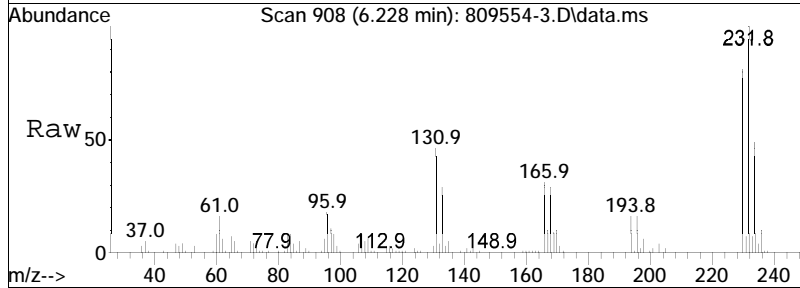
Tgt Ion	Resp	Lower	Upper
65	100		
109	91.0	52.0	78.0#
139	0.0	268.1	402.1#

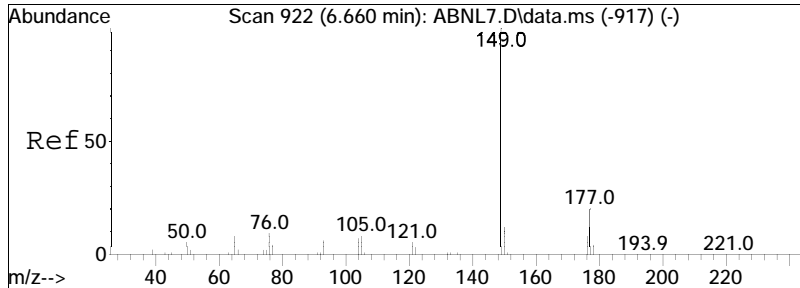




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 33.11 ug/ml
 RT: 6.228 min Scan# 908
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

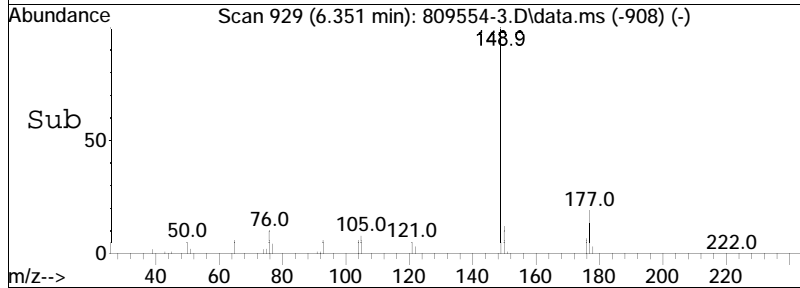
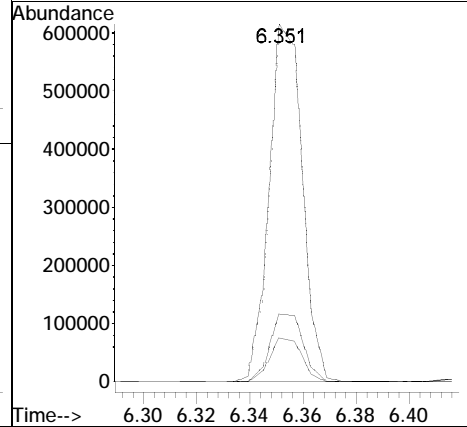
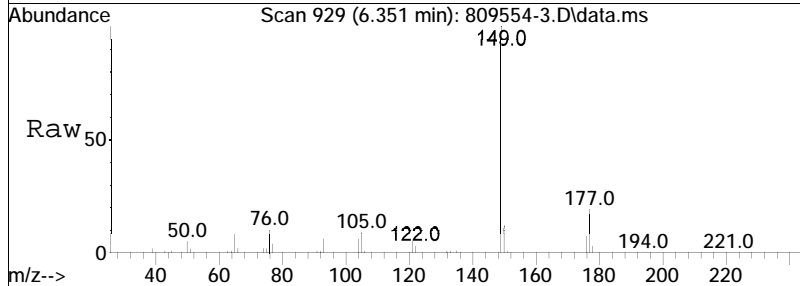
Tgt Ion	Resp	Lower	Upper
232	100		
230	80.7	62.9	94.3
234	49.3	38.1	57.1

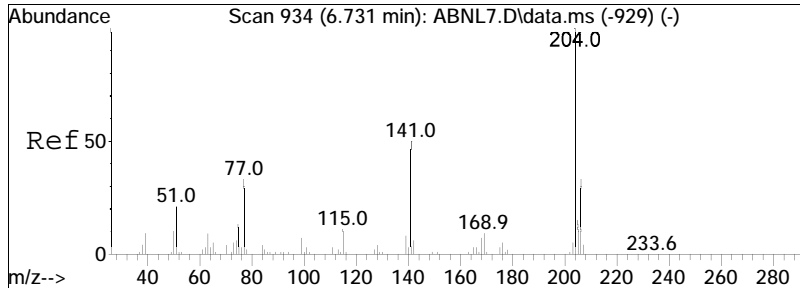




#72
 Diethyl phthalate
 Concen: 33.21 ug/ml
 RT: 6.351 min Scan# 929
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

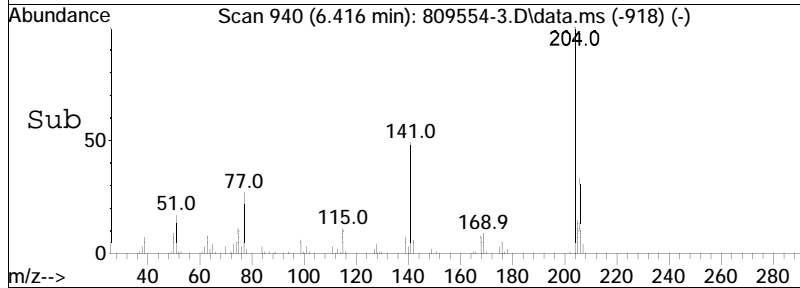
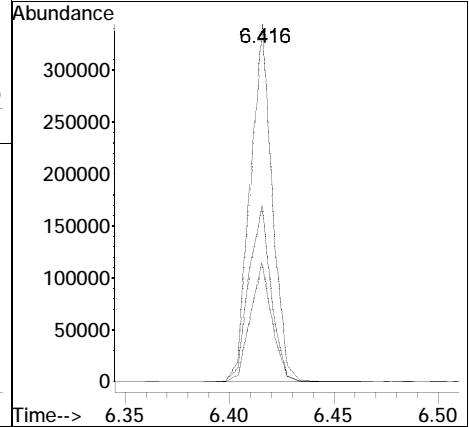
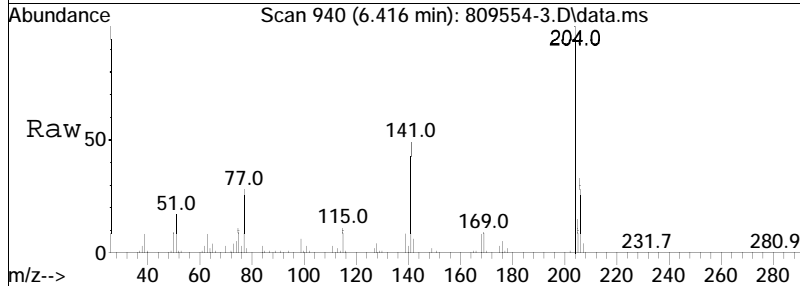
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.3	16.2	24.4
150	12.2	9.9	14.9

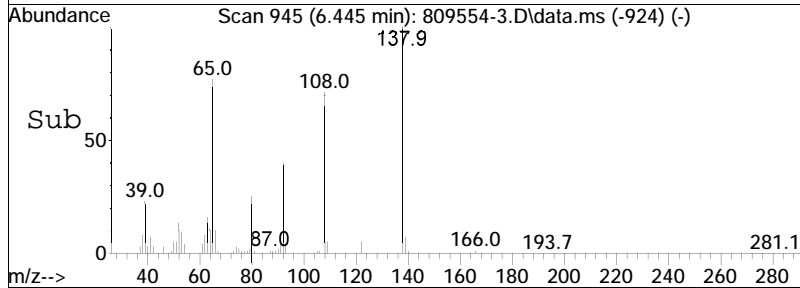
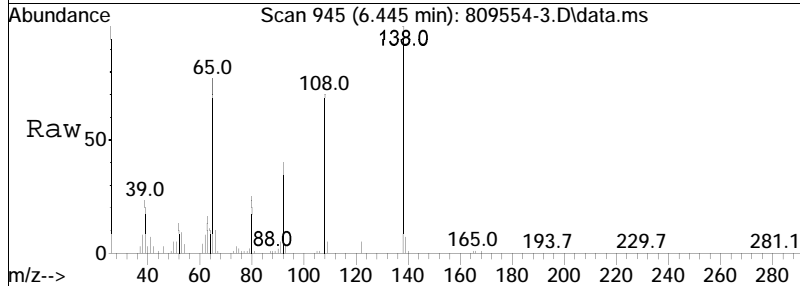
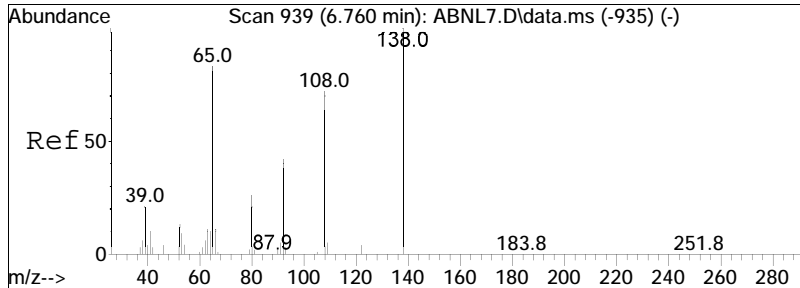




#74
 4-Chlorophenyl phenyl ether
 Concen: 33.35 ug/ml
 RT: 6.416 min Scan# 940
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

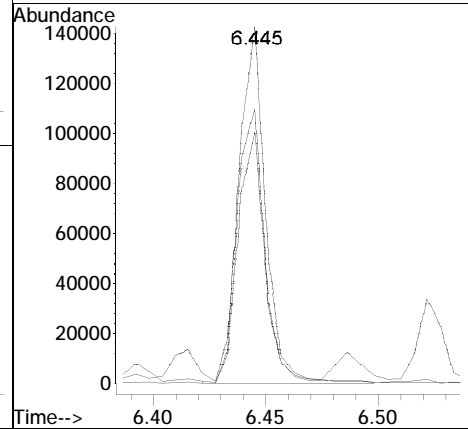
Tgt Ion	Ratio	Lower	Upper
204	100		
206	33.0	27.1	40.7
141	50.3	46.6	70.0

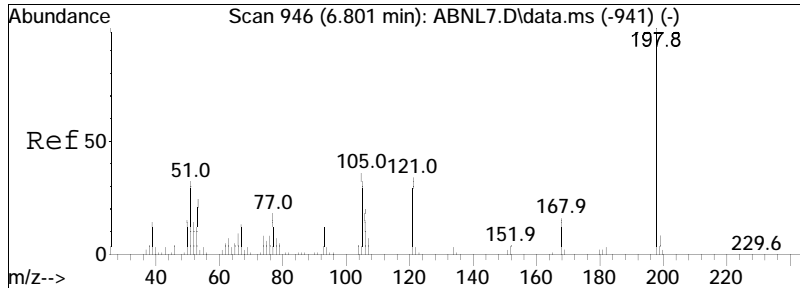




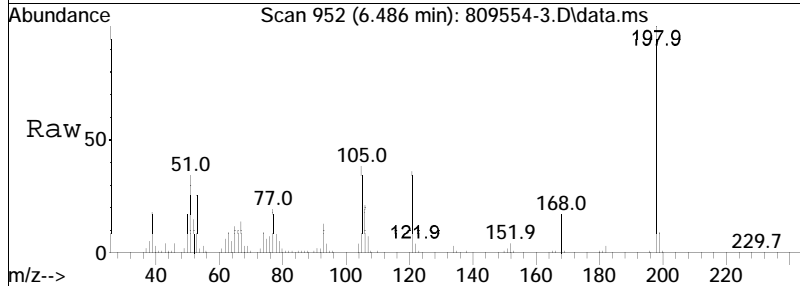
#75
 4-Nitroaniline
 Concen: 31.89 ug/ml
 RT: 6.445 min Scan# 945
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

Tgt Ion	Resp	Lower	Upper
138	116243		
108	71.4	45.8	68.8#
65	79.2	84.2	126.4#

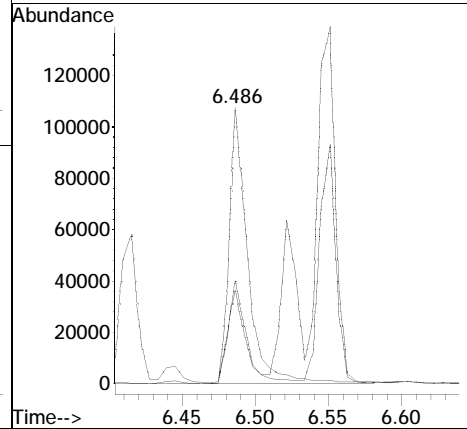
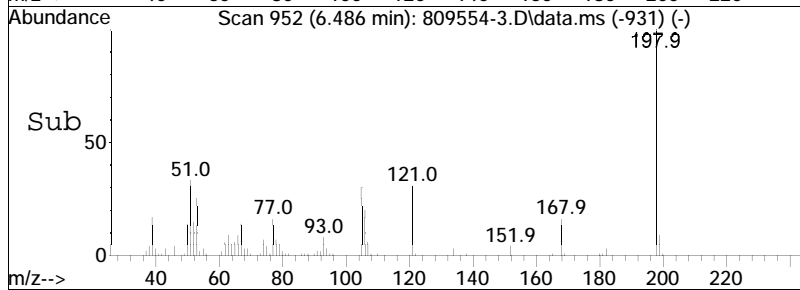


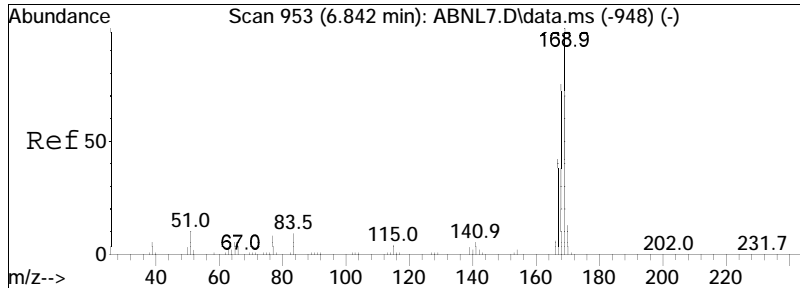


#76
 4,6-Dinitro-o-cresol
 Concen: 34.57 ug/ml
 RT: 6.486 min Scan# 952
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am



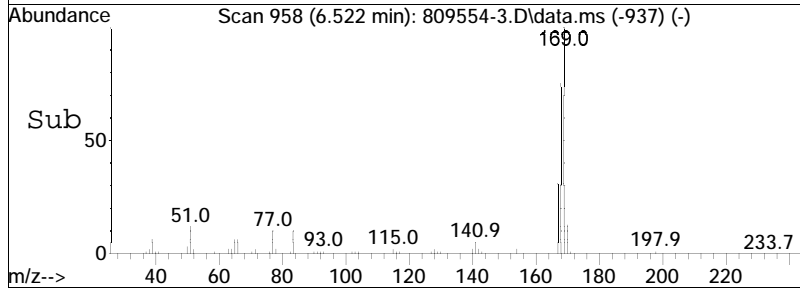
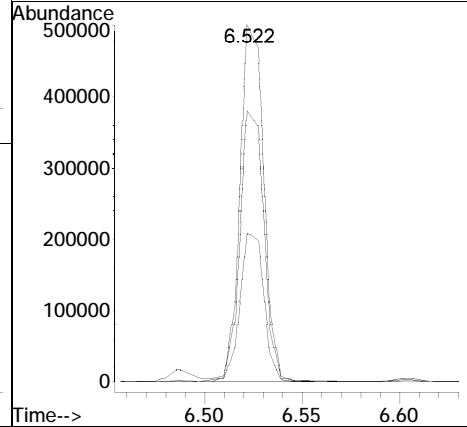
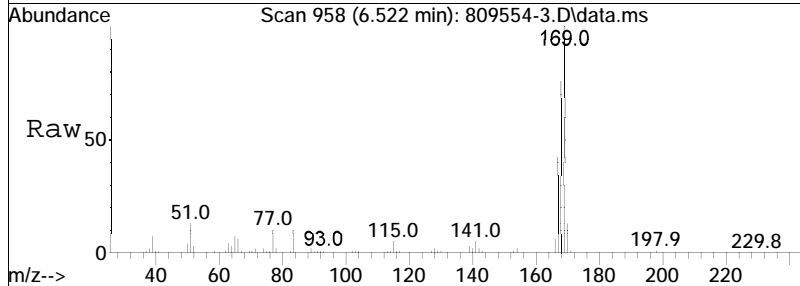
Tgt Ion	Ratio	Lower	Upper
198	100		
51	30.8	35.5	53.3#
105	36.5	35.8	53.6

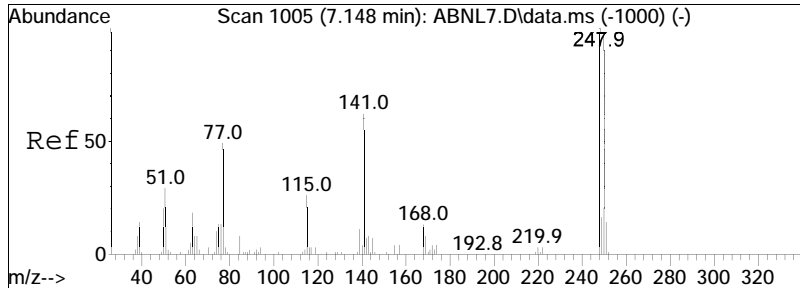




#77
 NDPA/DPA
 Concen: 32.38 ug/ml
 RT: 6.522 min Scan# 958
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

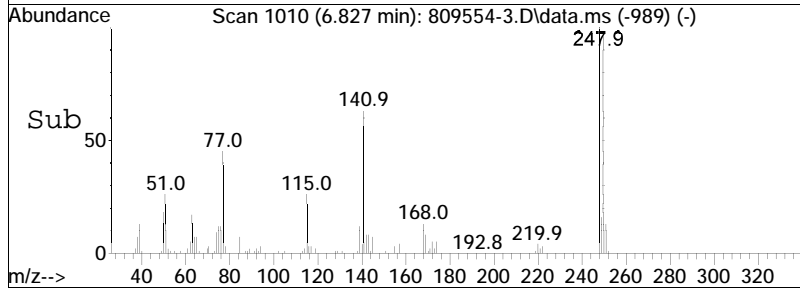
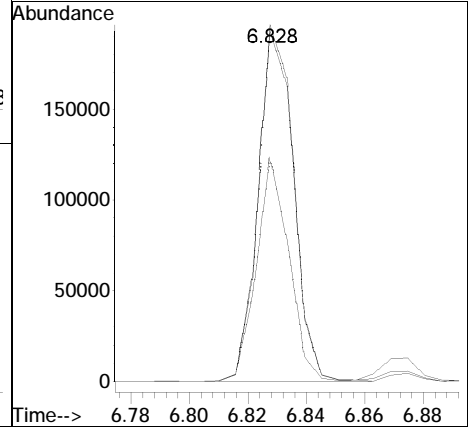
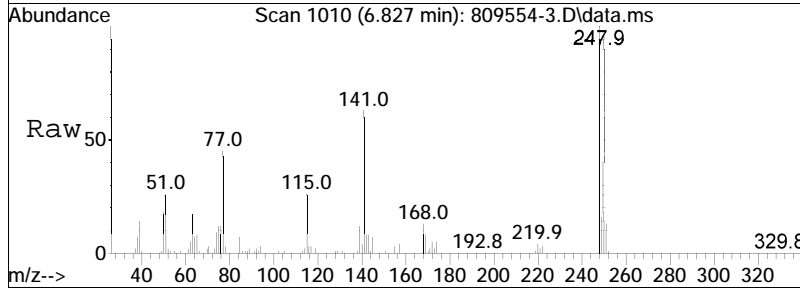
Tgt Ion	Resp	Lower	Upper
169	100		
168	76.9	59.7	89.5
167	42.7	33.6	50.4

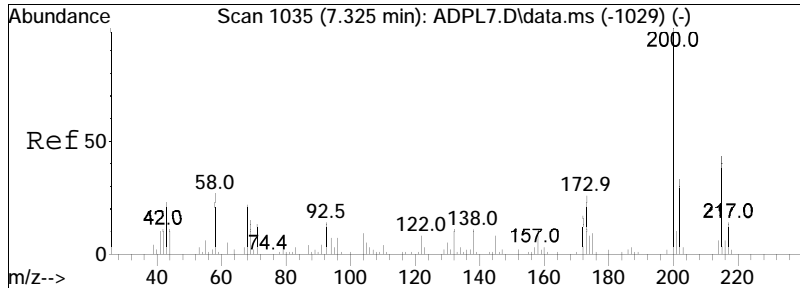




#80
 4-Bromophenyl phenyl ether
 Concen: 33.87 ug/ml
 RT: 6.827 min Scan# 1010
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

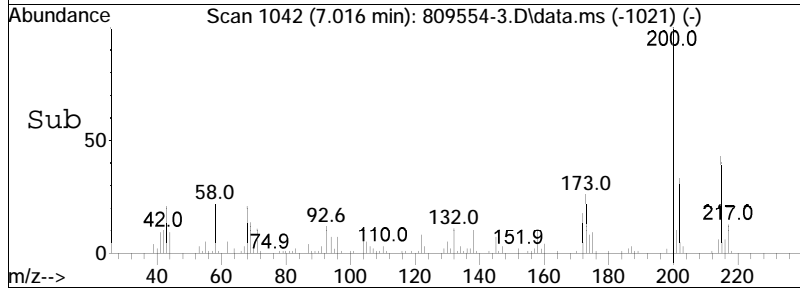
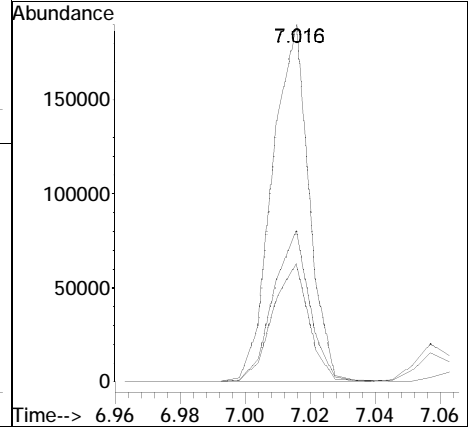
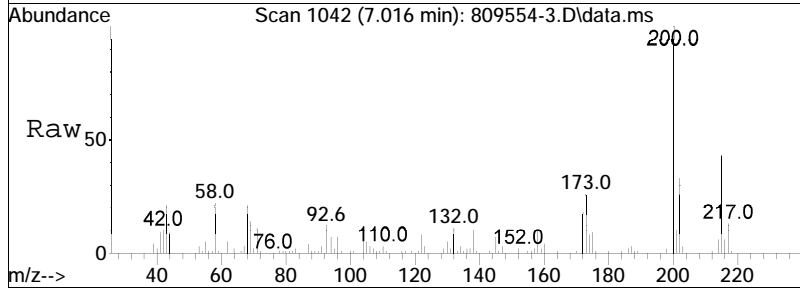
Tgt Ion	Ratio	Lower	Upper
248	100		
141	57.6	50.8	76.2
250	97.2	78.1	117.1

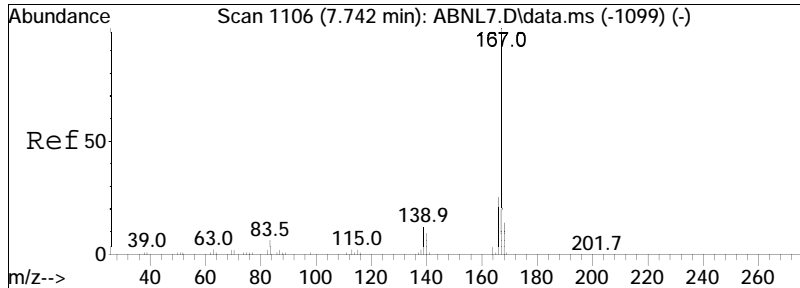




#87
 Atrazine
 Concen: 30.90 ug/ml
 RT: 7.016 min Scan# 1042
 Delta R.T. 0.000 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

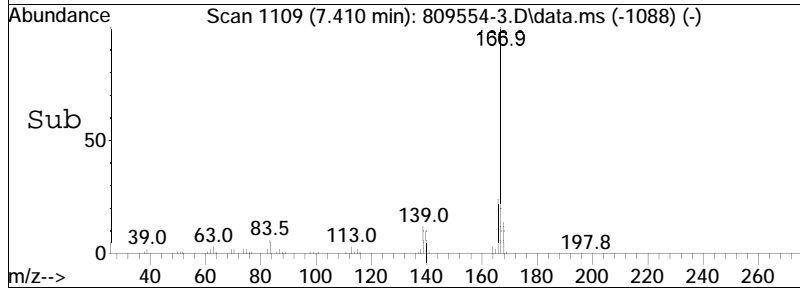
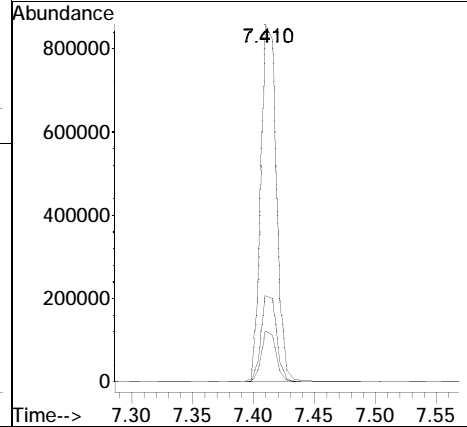
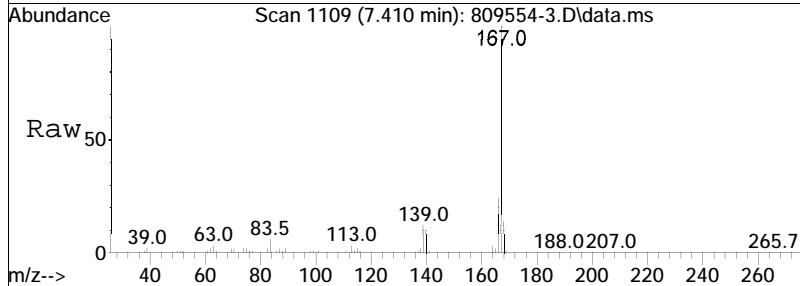
Tgt Ion	Resp	Lower	Upper
200	147775		
200	100		
202	33.0	26.5	39.7
215	42.0	35.8	53.6

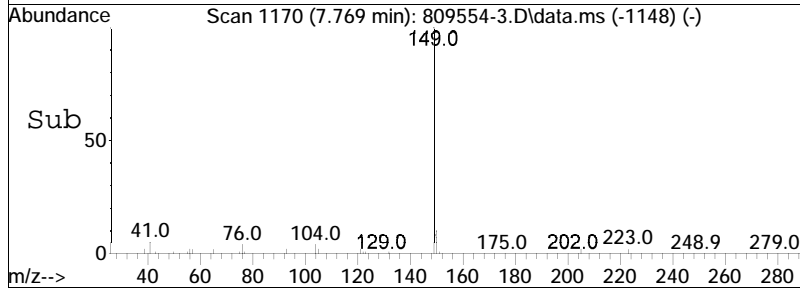
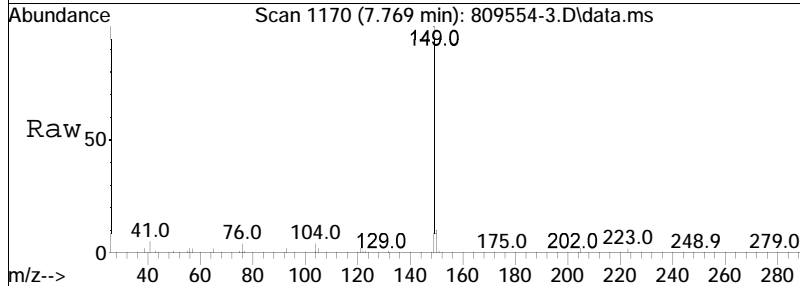
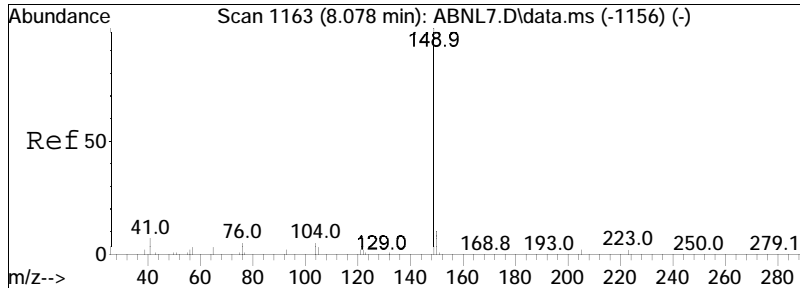




#91
 Carbazole
 Concen: 32.36 ug/ml
 RT: 7.410 min Scan# 1109
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

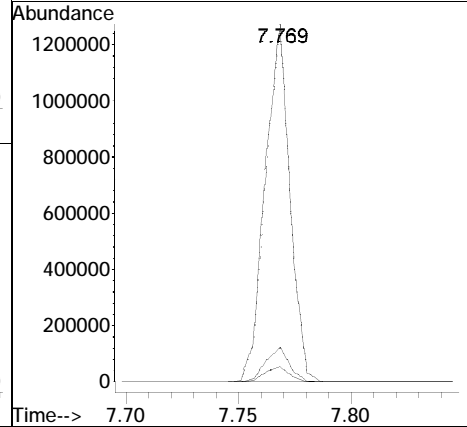
Tgt Ion	Resp	Lower	Upper
167	756938		
167	100		
168	13.7	11.6	17.4
166	24.4	19.9	29.9

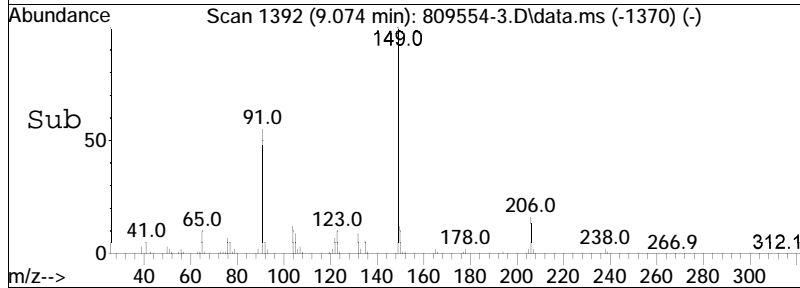
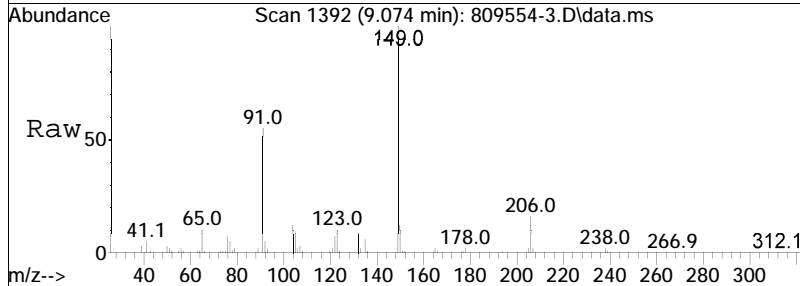
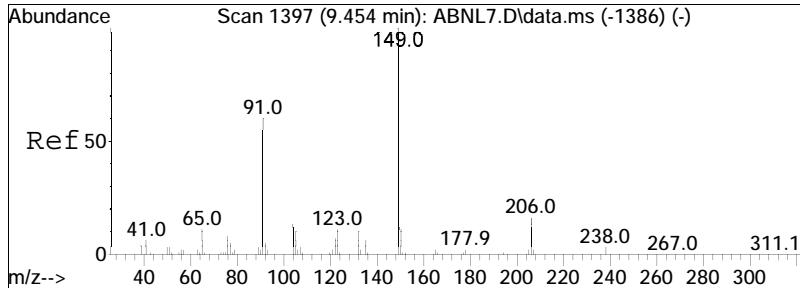




#92
 Di-n-butylphthalate
 Concen: 33.36 ug/ml
 RT: 7.769 min Scan# 1170
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

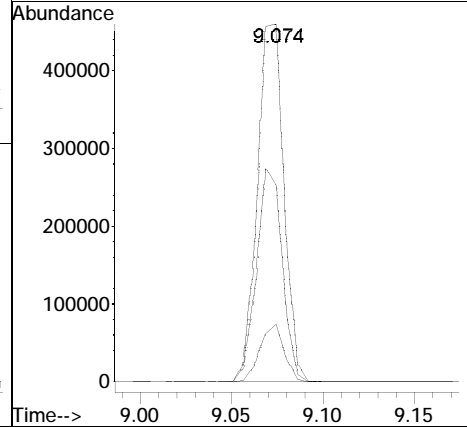
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.4	8.1	12.1
104	4.3	3.4	5.2

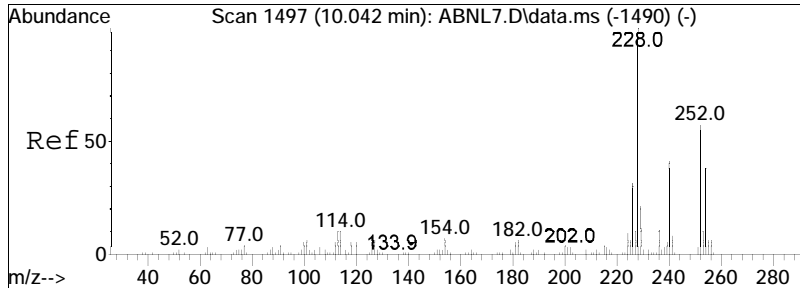




#97
 Butyl benzyl phthalate
 Concen: 32.36 ug/ml
 RT: 9.074 min Scan# 1392
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

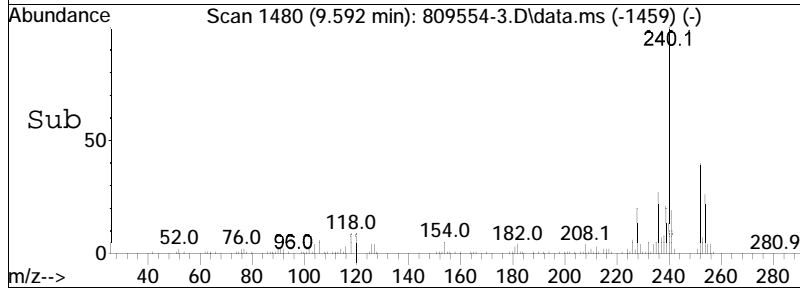
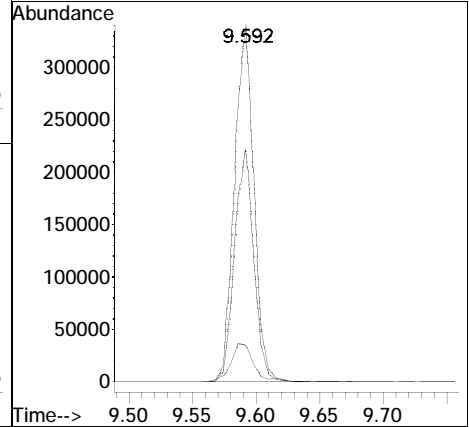
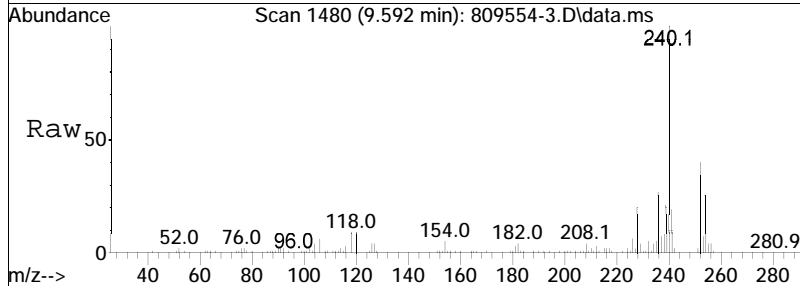
Tgt Ion	Resp	Lower	Upper
149	457796		
91	57.9	51.2	76.8
206	14.8	12.1	18.1

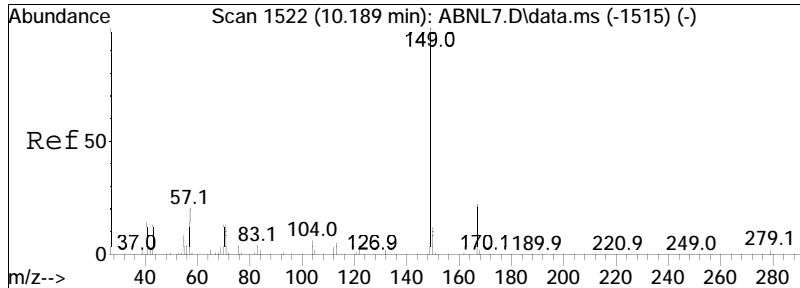




#106
 3,3'-Dichlorobenzidine
 Concen: 26.31 ug/ml
 RT: 9.592 min Scan# 1480
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

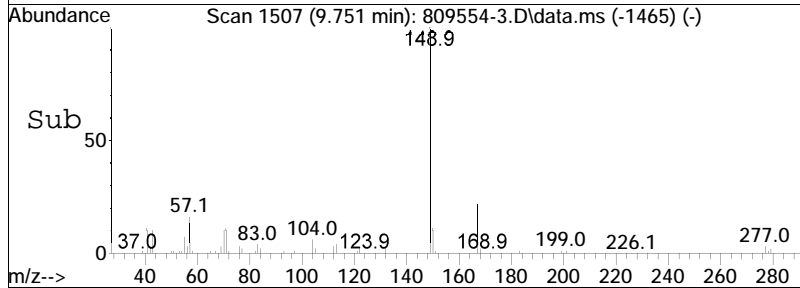
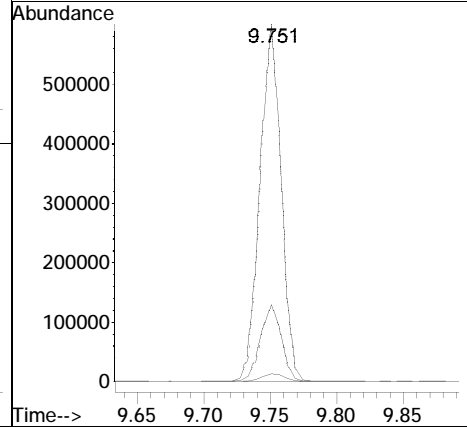
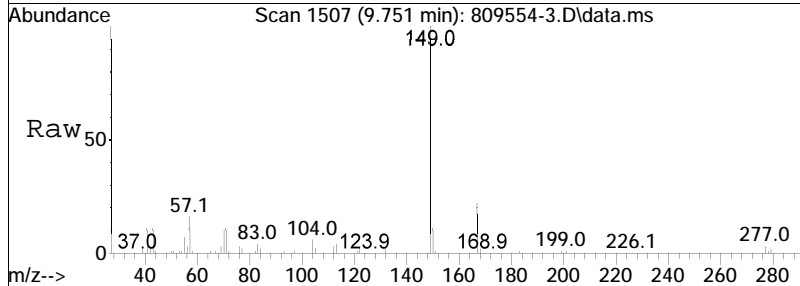
Tgt Ion	Ratio	Lower	Upper
252	100		
126	12.9	11.6	17.4
254	64.8	52.2	78.2

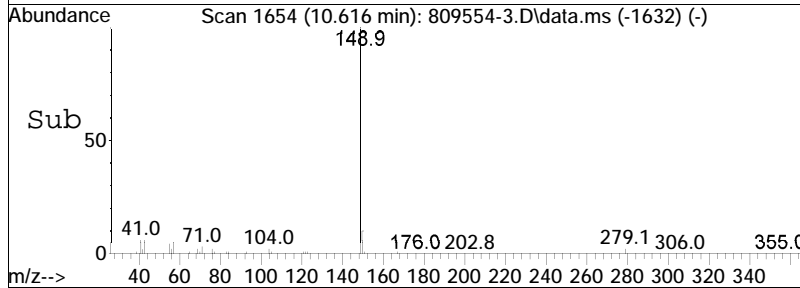
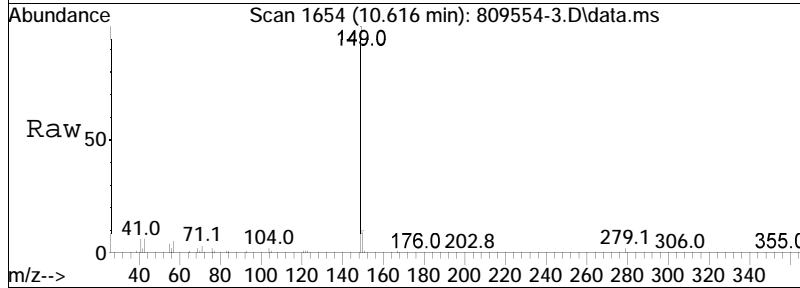
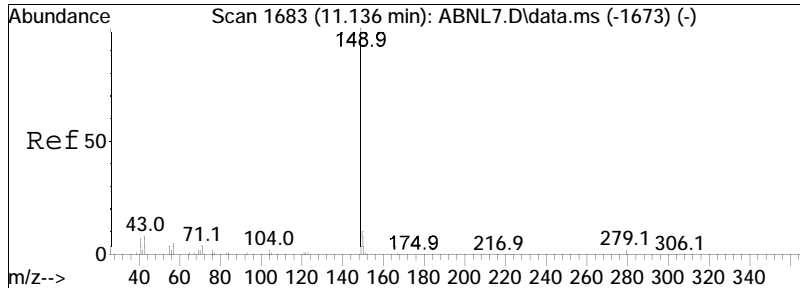




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 34.10 ug/ml
 RT: 9.751 min Scan# 1507
 Delta R.T. -0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

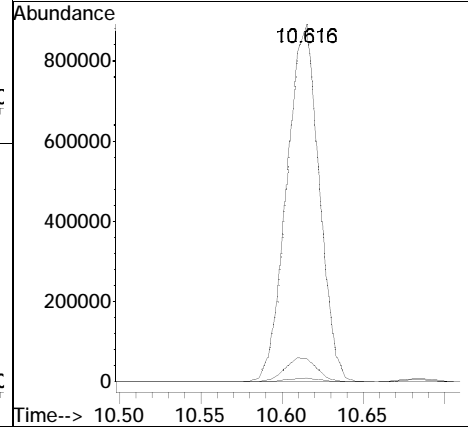
Tgt Ion	Ratio	Lower	Upper
149	100		
167	21.5	17.8	26.8
279	2.2	1.8	2.6





#109
 Di-n-octylphthalate
 Concen: 33.83 ug/ml
 RT: 10.616 min Scan# 1654
 Delta R.T. 0.003 min
 Lab File: 809554-3.D
 Acq: 2 Aug 2023 2:30 am

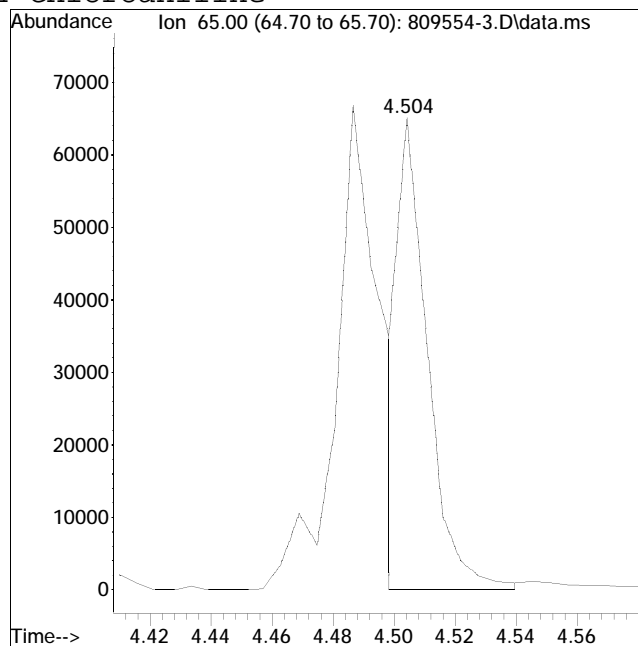
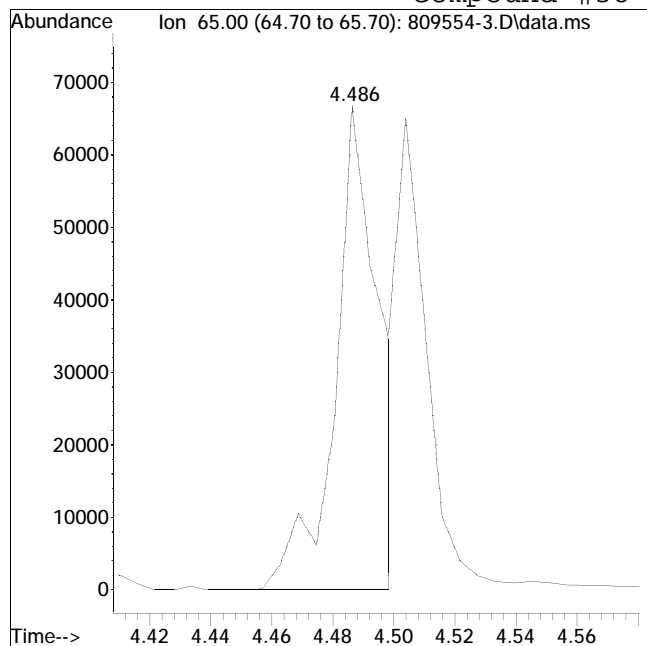
Tgt Ion	Ratio	Lower	Upper
149	100		
43	6.7	7.4	11.2#
167	1.3	1.1	1.7



Manual Integration Report

Data Path : I:\8270\Juliet\230801n\ QMethod : FS230721Juliet.m
Data File : 809554-3.D Operator : Juliet:mg
Date Inj'd : 8/2/2023 2:30 am Instrument : Juliet
Sample : WG1809554-3,32,,ASK Quant Date : 8/2/2023 12:11 pm

Compound #38: 4-Chloroaniline



Original Peak Response = 66915

Manual Peak Response = 42649 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 809554-6.D
 Acq On : 2 Aug 2023 6:44 am
 Operator : SV109:slr
 Sample : WG1809554-6,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 08 10:47:18 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 07:03:20 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.098	152	254063	40.000	ug/ml	0.00
Standard Area 1 = 268648			Recovery =	94.57%		
27) IS2_1,4-Dichlorobenzen...	4.098	152	253994	40.000	ug/ml	0.00
Standard Area 3 = 292844			Recovery =	86.73%		
35) IS1_Naphthalene-d8	5.345	136	1021995	40.000	ug/ml	0.00
Standard Area 1 = 1035506			Recovery =	98.70%		
55) IS2_Naphthalene-d8	5.345	136	1021995	40.000	ug/ml	0.00
Standard Area 3 = 1138171			Recovery =	89.79%		
63) IS1_Acenaphthene-d10	7.045	164	584298	40.000	ug/ml	0.00
Standard Area 1 = 585086			Recovery =	99.87%		
83) IS2_Acenaphthene-d10	7.045	164	584298	40.000	ug/ml	0.00
Standard Area 3 = 646970			Recovery =	90.31%		
86) IS3_Acenaphthene-d10	7.045	164	584298	40.000	ug/ml	0.00
Standard Area 2 = 587706			Recovery =	99.42%		
88) IS1_Phenanthrene-d10	8.469	188	1262471	40.000	ug/ml	0.00
Standard Area 1 = 1270325			Recovery =	99.38%		
100) IS3_Phenanthrene-d10	8.469	188	1262471	40.000	ug/ml	0.00
Standard Area 2 = 1295083			Recovery =	97.48%		
104) IS1_Chrysene-d12	11.116	240	1158177	40.000	ug/ml	0.00
Standard Area 1 = 1162834			Recovery =	99.60%		
113) IS1_Perylene-d12	13.015	264	1251372	40.000	ug/ml	0.00
Standard Area 1 = 1262838			Recovery =	99.09%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.798	112	171481	25.188	ug/ml	0.00
Spiked Amount 50.000			Range 30 - 130	Recovery =	50.38%	
7) Phenol-d6	3.822	99	150984	16.468	ug/ml	0.00
Spiked Amount 50.000			Range 30 - 130	Recovery =	32.94%	
19) Nitrobenzene-d5	4.657	82	153504	16.649	ug/ml	0.00
Spiked Amount 25.000			Range 40 - 140	Recovery =	66.60%	
46) 2-Fluorobiphenyl	6.428	172	373514	18.309	ug/ml	0.00
Spiked Amount 25.000			Range 40 - 140	Recovery =	73.24%	
79) 2,4,6-Tribromophenol	7.810	330	138150	44.320	ug/ml	0.00
Spiked Amount 50.000			Range 30 - 130	Recovery =	88.64%	
96) 4-Terphenyl-d14	10.045	244	538686	17.338	ug/ml	0.00
Spiked Amount 25.000			Range 40 - 140	Recovery =	69.35%	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 809554-6.D
 Acq On : 2 Aug 2023 6:44 am
 Operator : SV109:slr
 Sample : WG1809554-6,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 08 10:47:18 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 07:03:20 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Target Compounds							
6) 2-Chlorophenol	3.898	128	221013	26.254	ug/ml		98
8) Phenol	3.840	94	125174	12.692	ug/ml#		67
9) Bis(2-chloroethyl)ether	3.875	93	196492	24.854	ug/ml		91
14) Bis(2-chloroisopropyl)...	4.422	45	269699	25.813	ug/ml#		78
15) 2-Methylphenol	4.434	108	182595	25.118	ug/ml		98
17) n-Nitrosodi-n-propylamine	4.551	70	163857	25.452	ug/ml		97
18) 3-Methylphenol/4-Methy...	4.592	108	205890	26.998	ug/ml#		23
20) Nitrobenzene	4.681	77	241239	26.589	ug/ml		99
21) Isophorone	4.928	82	447327	25.538	ug/ml		99
22) 2-Nitrophenol	4.998	139	132553	29.317	ug/ml		97
23) 2,4-Dimethylphenol	5.098	107	230601	27.350	ug/ml		96
24) Bis(2-chloroethoxy)met...	5.175	93	281613	26.388	ug/ml#		95
25) 2,4-Dichlorophenol	5.251	162	217026	29.562	ug/ml		98
28) Benzaldehyde	3.657	105	184624	35.317	ug/ml		98
29) Acetophenone	4.522	105	340474	29.899	ug/ml		95
38) 4-Chloroaniline	5.457	65	82747M3	25.104	ug/ml		
40) p-Chloro-m-cresol	5.981	107	233195	29.309	ug/ml		97
43) Hexachlorocyclopentadiene	6.222	237	72674	19.497	ug/ml		98
44) 2,4,6-Trichlorophenol	6.351	196	175506	31.636	ug/ml		100
45) 2,4,5-Trichlorophenol	6.386	196	192386	31.296	ug/ml		100
48) 2-Nitroaniline	6.639	138	173420	29.434	ug/ml		98
51) Dimethyl phthalate	6.845	163	624380	28.445	ug/ml		100
53) 2,6-Dinitrotoluene	6.892	165	136021	28.987	ug/ml#		80
60) Caprolactam	5.781	55	37488	9.859	ug/ml#		86
61) 1,2,4,5-Tetrachloroben...	6.222	216	251438	28.513	ug/ml		99
62) Biphenyl	6.516	154	627101	29.961	ug/ml		99
64) 3-Nitroaniline	7.039	138	133227	24.154	ug/ml#		98
66) 2,4-Dinitrophenol	7.163	184	72013	28.527	ug/ml		95
67) Dibenzofuran	7.245	168	744369	27.585	ug/ml		100
68) 2,4-Dinitrotoluene	7.280	165	191581	30.490	ug/ml#		79
69) 4-Nitrophenol	7.275	65	72323	17.709	ug/ml		90
71) 2,3,4,6-Tetrachlorophenol	7.392	232	159137	29.061	ug/ml		99
72) Diethyl phthalate	7.533	149	668717	26.778	ug/ml		100
74) 4-Chlorophenyl phenyl ...	7.604	204	290977	27.575	ug/ml		98
75) 4-Nitroaniline	7.628	138	139607	25.848	ug/ml		90
76) 4,6-Dinitro-o-cresol	7.680	198	107938	33.349	ug/ml#		89

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 809554-6.D
 Acq On : 2 Aug 2023 6:44 am
 Operator : SV109:slr
 Sample : WG1809554-6,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 08 10:47:18 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 07:03:20 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) NDPA/DPA	7.722	169	520820	27.772	ug/ml	99
80) 4-Bromophenyl phenyl e...	8.069	248	183976	28.147	ug/ml	97
87) Atrazine	8.275	200	173793	28.278	ug/ml	99
91) Carbazole	8.716	167	905766	27.956	ug/ml	100
92) Di-n-butylphthalate	9.122	149	1199263	27.321	ug/ml	100
97) Butyl benzyl phthalate	10.574	149	547531	27.325	ug/ml	98
106) 3,3'-Dichlorobenzidine	11.116	252	343114	22.247	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	11.292	149	803290	26.580	ug/ml	99
109) Di-n-octylphthalate	12.163	149	1410705	26.469	ug/ml#	94

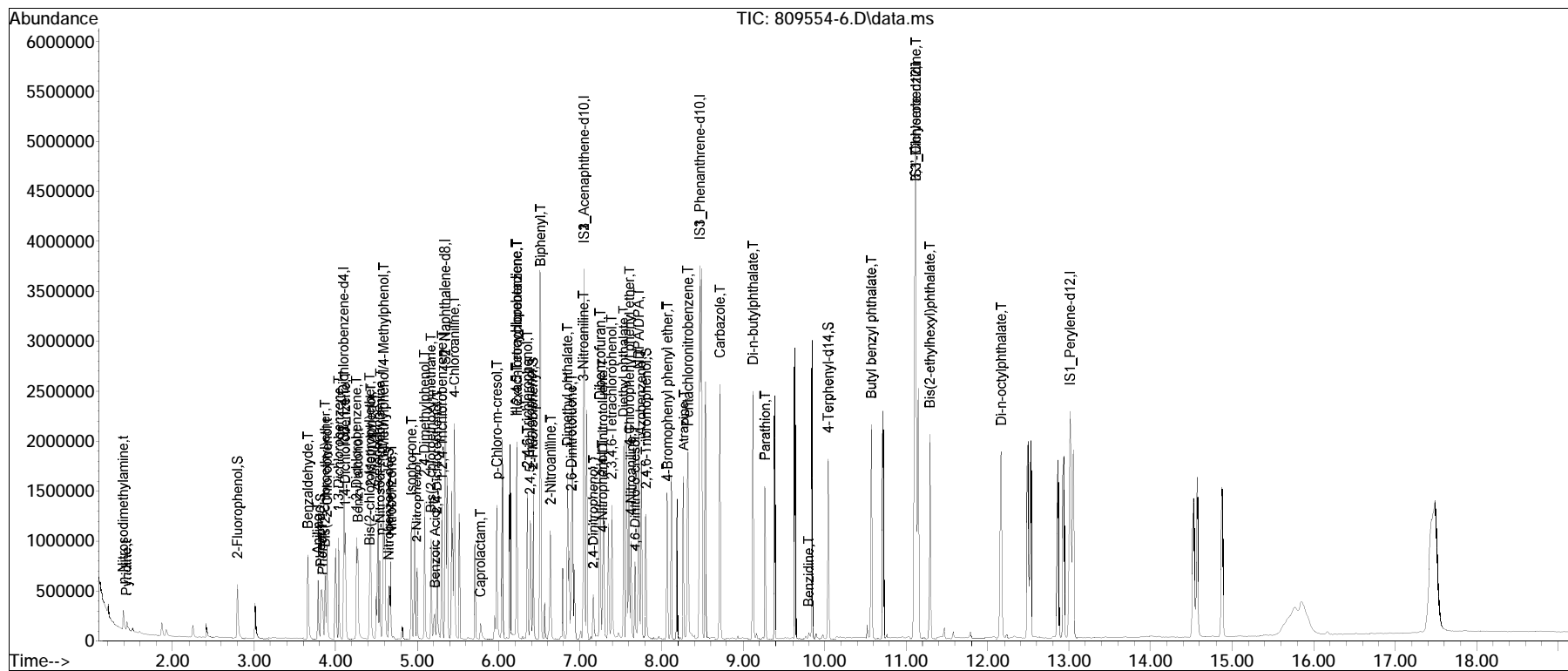
(#) = qualifier out of range (m) = manual integration (+) = signals summed

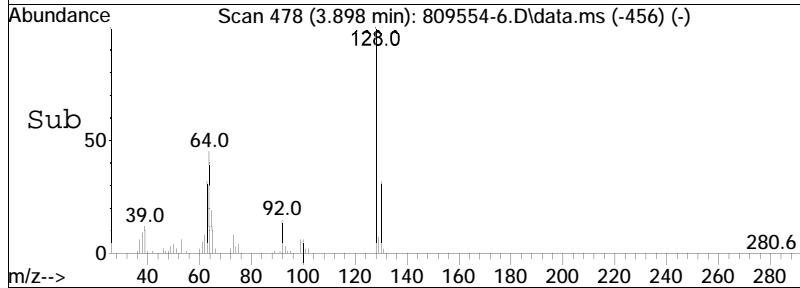
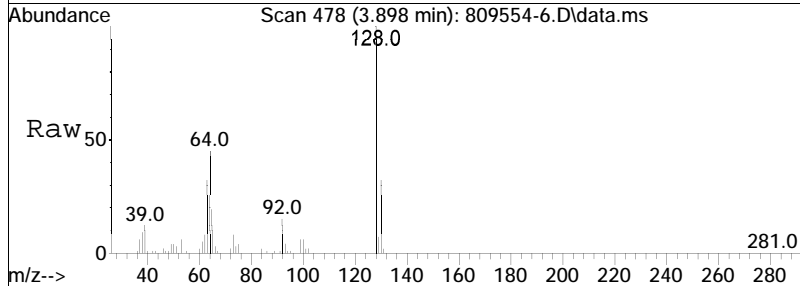
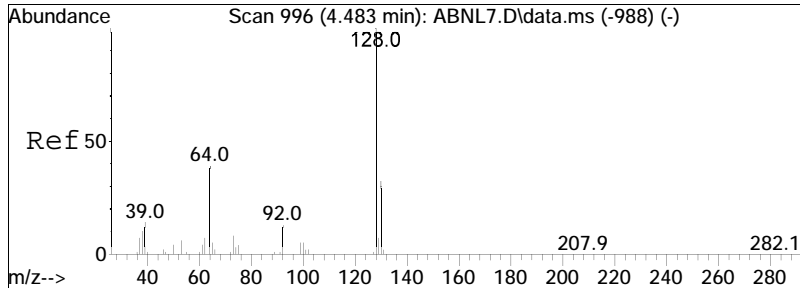
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 809554-6.D
 Acq On : 2 Aug 2023 6:44 am
 Operator : SV109:slr
 Sample : WG1809554-6,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 08 10:47:18 2023
 Quant Method : I:\8270\sv109\230801n\Fs230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 07:03:20 2023
 Response via : Initial Calibration

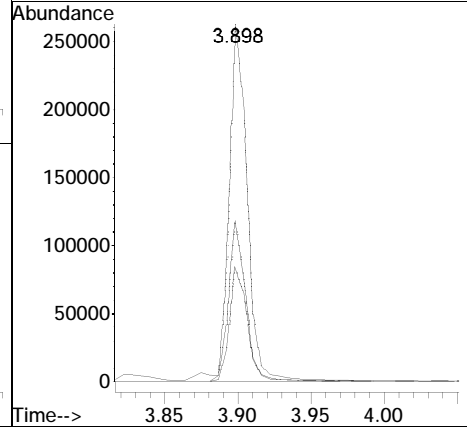
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA801n.D•

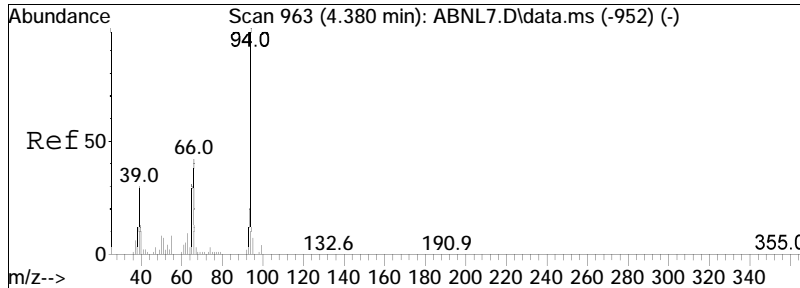




#6
 2-Chlorophenol
 Concen: 26.25 ug/ml
 RT: 3.898 min Scan# 478
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

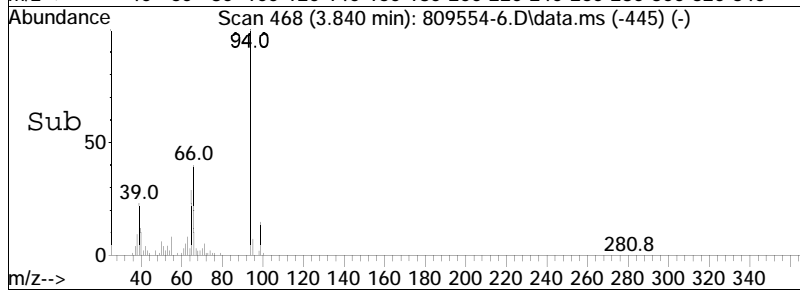
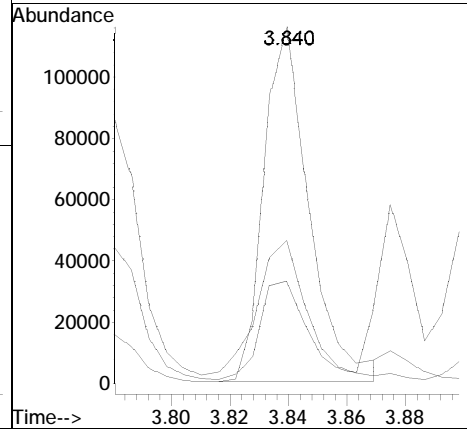
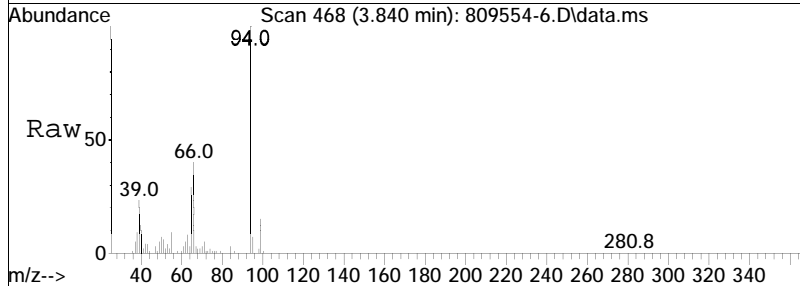
Tgt Ion	Ratio	Lower	Upper
128	100		
64	45.1	38.1	57.1
130	32.3	25.7	38.5

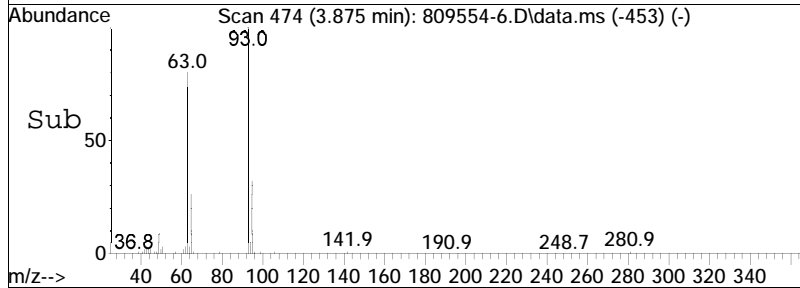
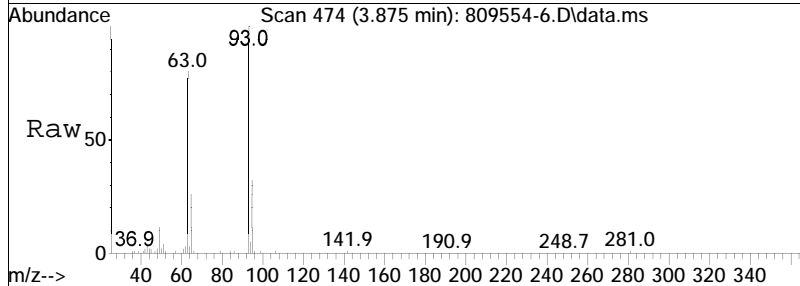
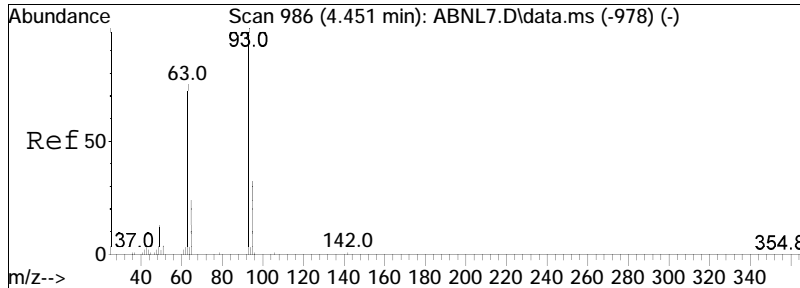




#8
 Phenol
 Concen: 12.69 ug/ml
 RT: 3.840 min Scan# 468
 Delta R.T. 0.009 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

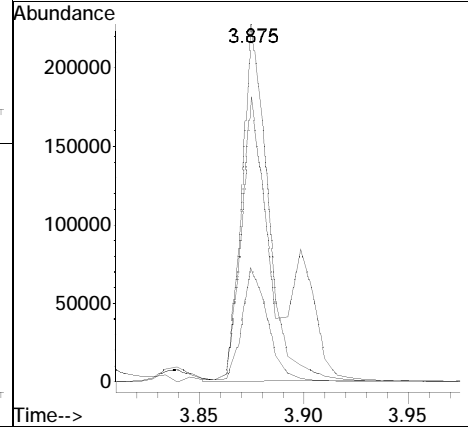
Tgt Ion:	94	Resp:	125174
Ion Ratio	Lower	Upper	
94	100		
65	31.1	40.7	61.1#
66	48.5	64.1	96.1#

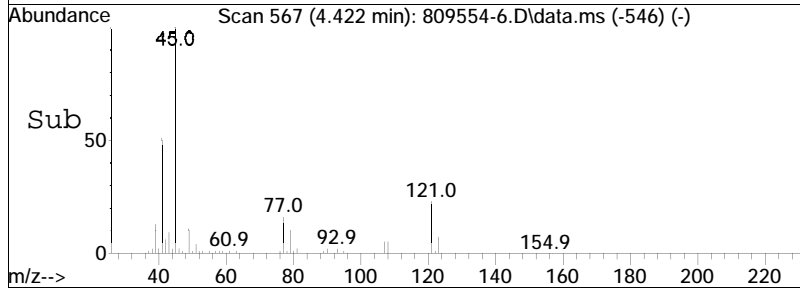
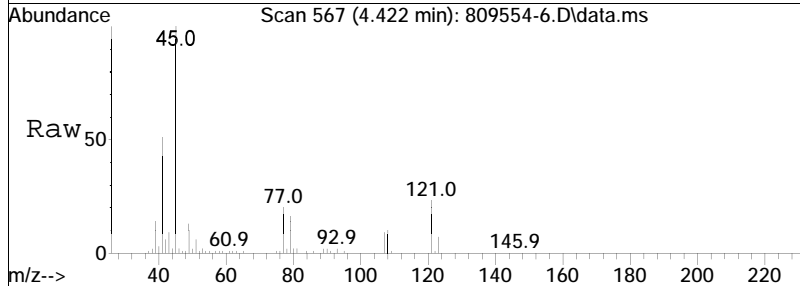
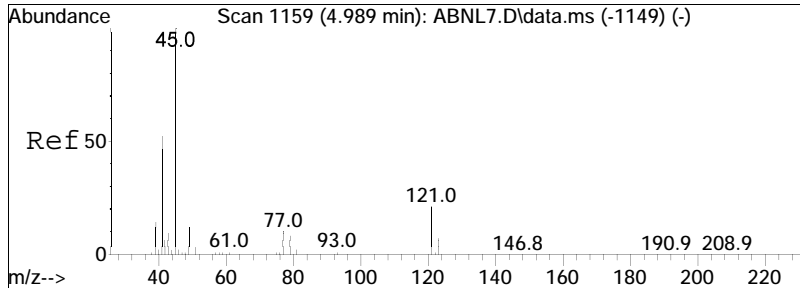




#9
 Bis(2-chloroethyl)ether
 Concen: 24.85 ug/ml
 RT: 3.875 min Scan# 474
 Delta R.T. -0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

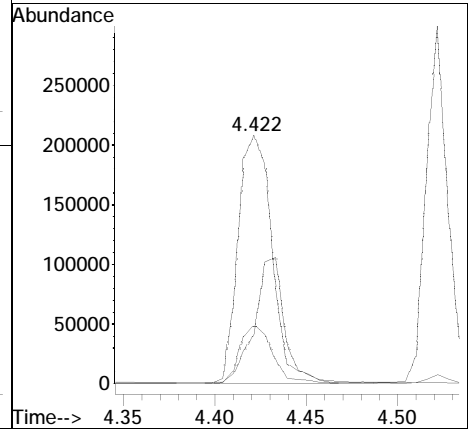
Tgt Ion	Resp	Lower	Upper
93	196492		
93	100		
63	81.7	73.7	110.5
95	31.8	26.9	40.3

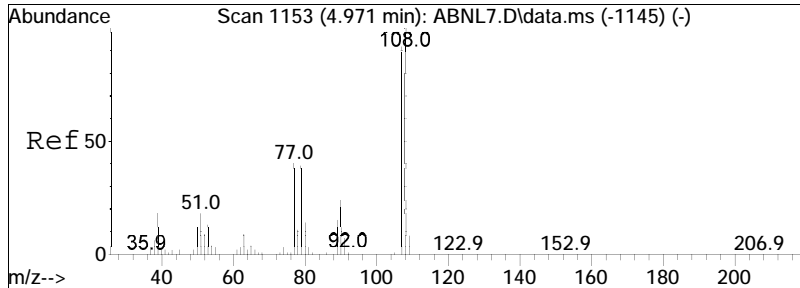




#14
 Bis(2-chloroisopropyl) ether
 Concen: 25.81 ug/ml
 RT: 4.422 min Scan# 567
 Delta R.T. -0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

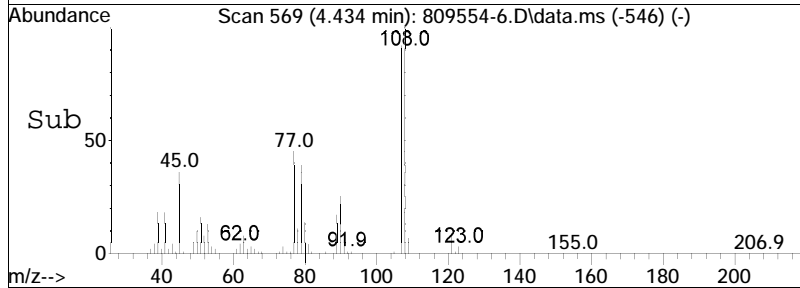
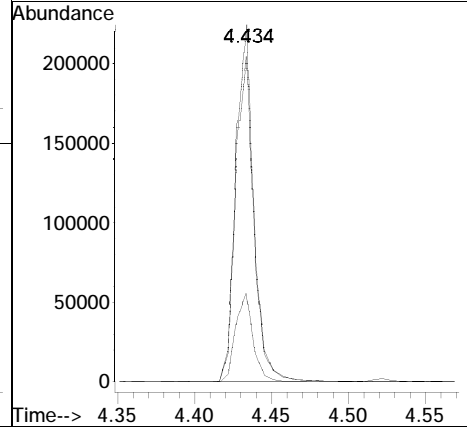
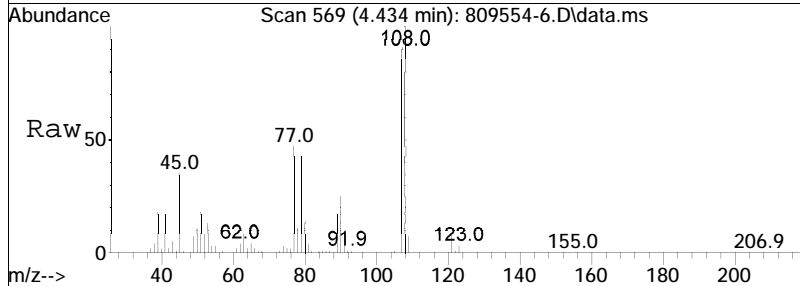
Tgt Ion:	45	Resp:	269699
Ion Ratio	100	Lower	Upper
45	100		
121	22.4	12.6	19.0#
77	44.6	24.6	37.0#

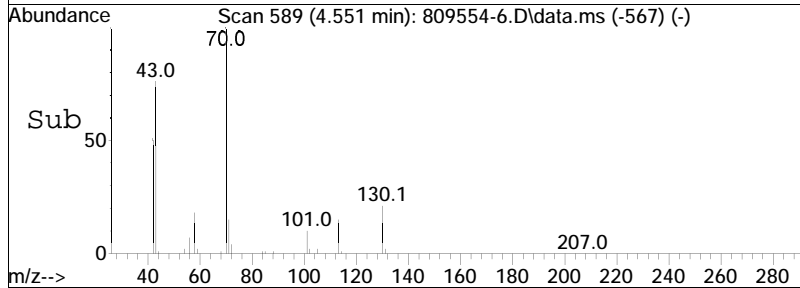
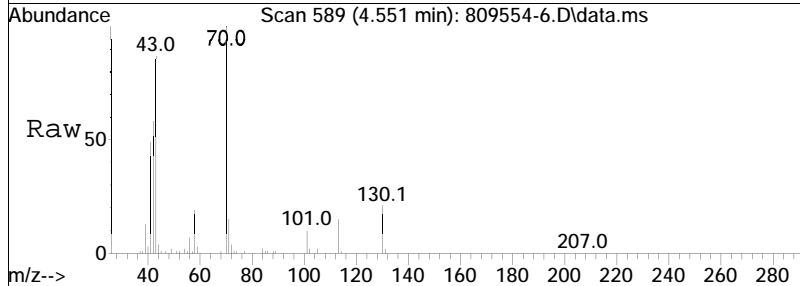
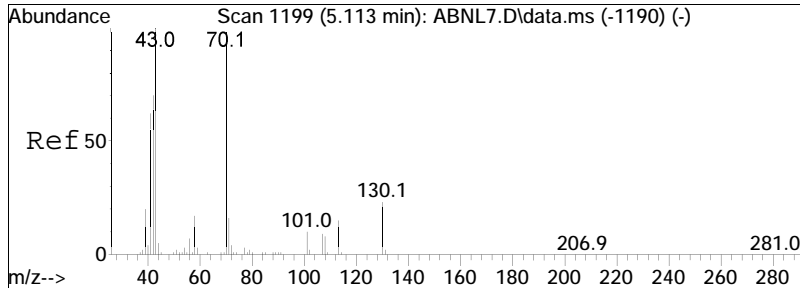




#15
 2-Methylphenol
 Concen: 25.12 ug/ml
 RT: 4.434 min Scan# 569
 Delta R.T. 0.009 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

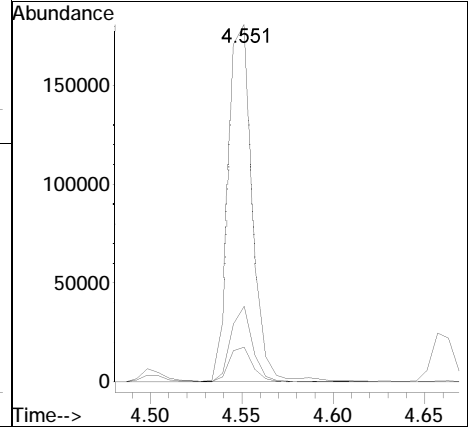
Tgt Ion	Ratio	Lower	Upper
108	100		
107	92.1	72.6	108.8
90	24.7	19.2	28.8

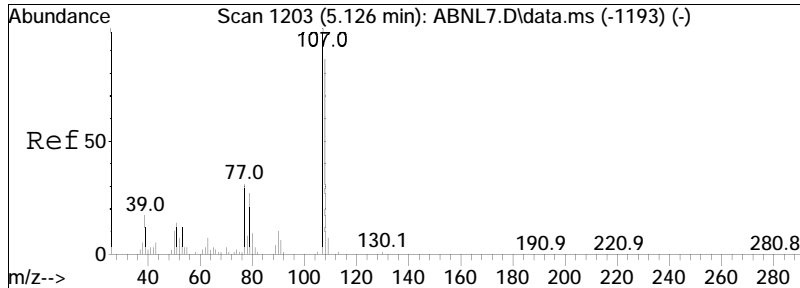




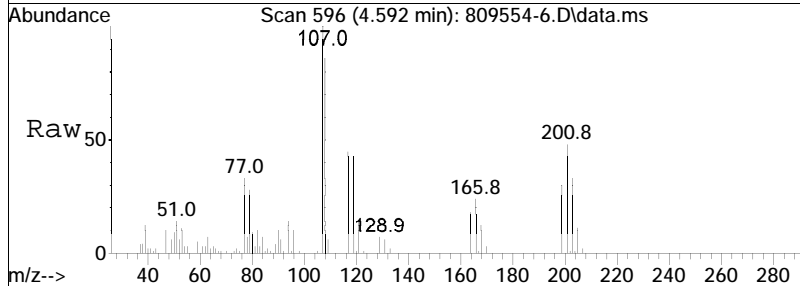
#17
 n-Nitrosodi-n-propylamine
 Concen: 25.45 ug/ml
 RT: 4.551 min Scan# 589
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
70	100		
130	19.2	16.6	24.8
101	9.6	7.4	11.0

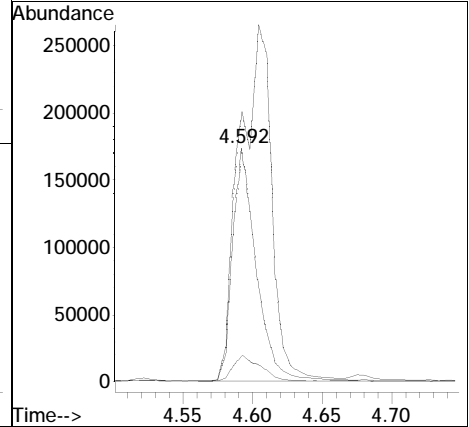
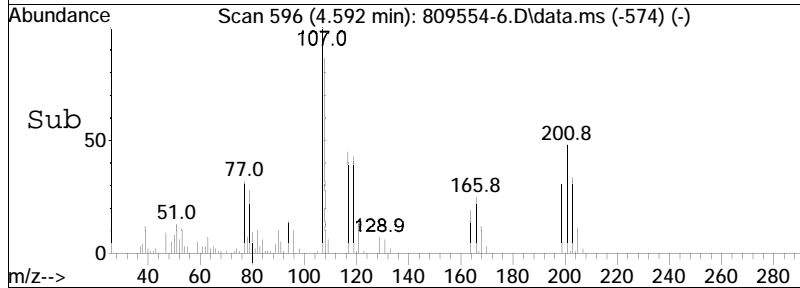


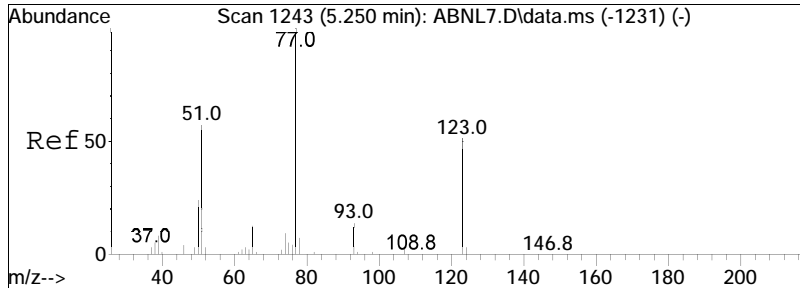


#18
 3-Methylphenol/4-Methylphenol
 Concen: 27.00 ug/ml
 RT: 4.592 min Scan# 596
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am



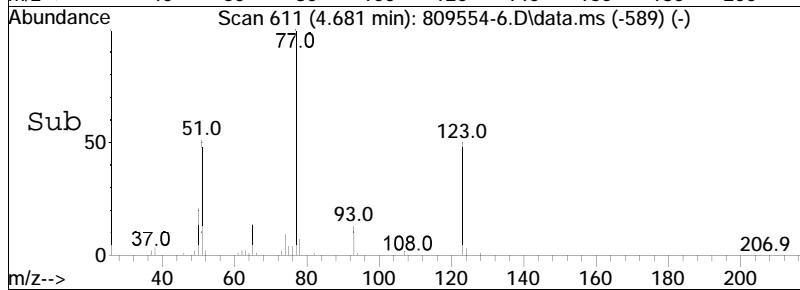
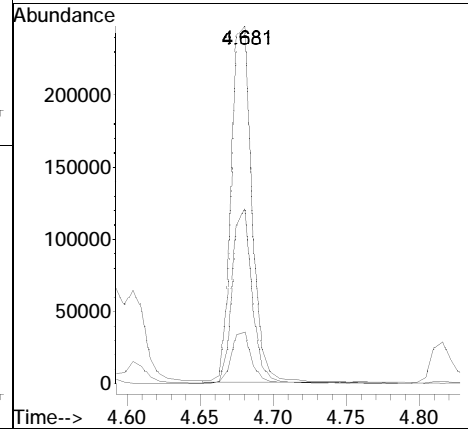
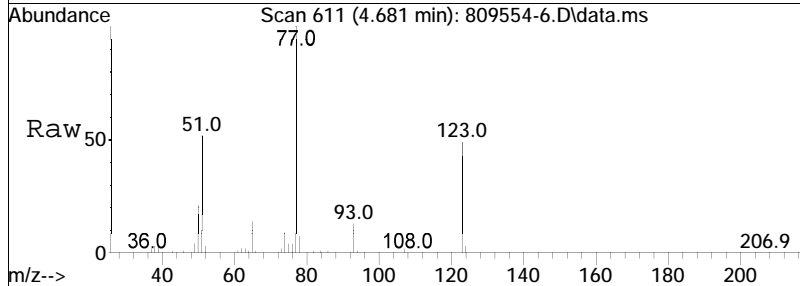
Tgt Ion	Resp	Lower	Upper
108	205890		
108	100		
107	204.3	91.0	136.6#
90	13.2	8.7	13.1#

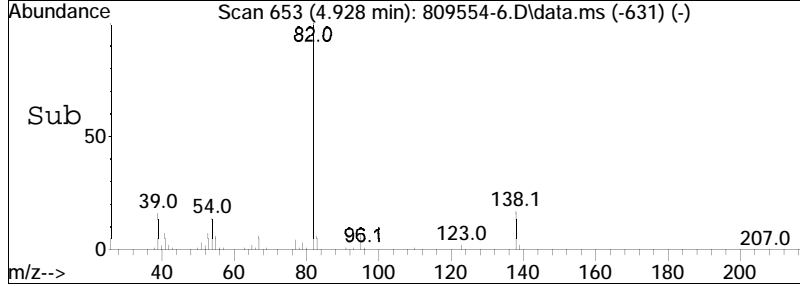
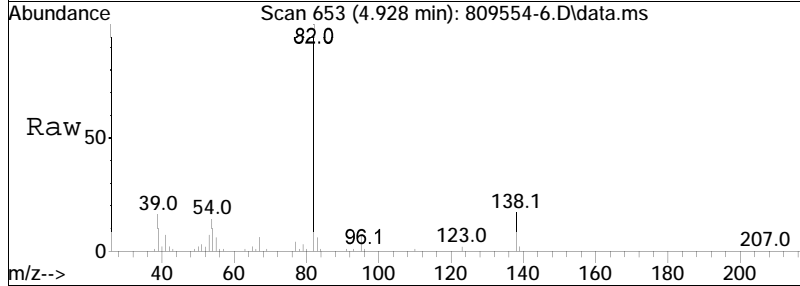
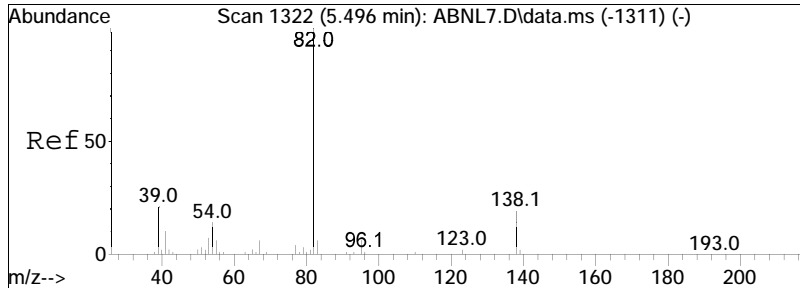




#20
 Nitrobenzene
 Concen: 26.59 ug/ml
 RT: 4.681 min Scan# 611
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

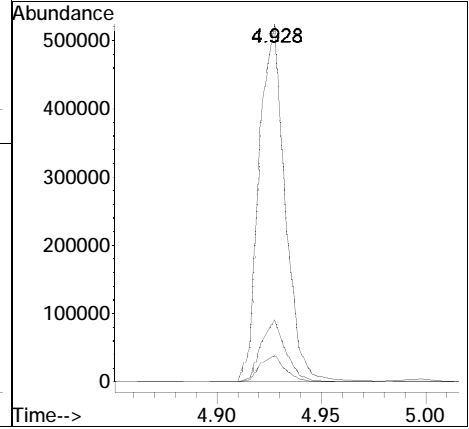
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
77	100		
123	47.9	38.5	57.7
65	14.8	11.4	17.0

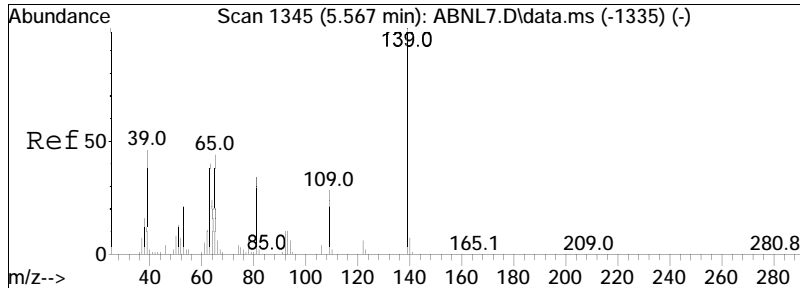




#21
 Isophorone
 Concen: 25.54 ug/ml
 RT: 4.928 min Scan# 653
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

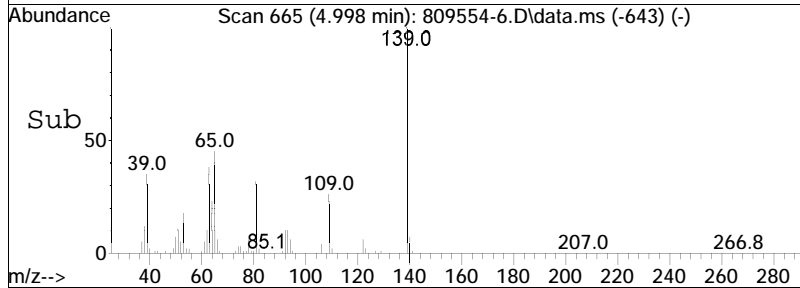
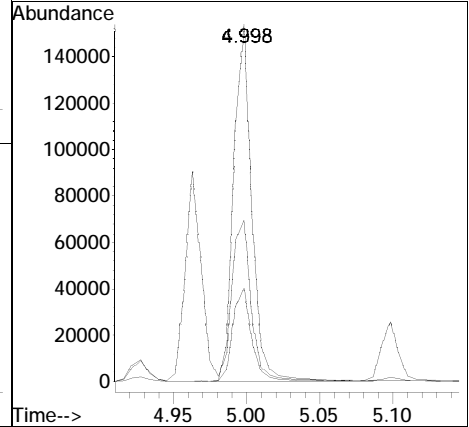
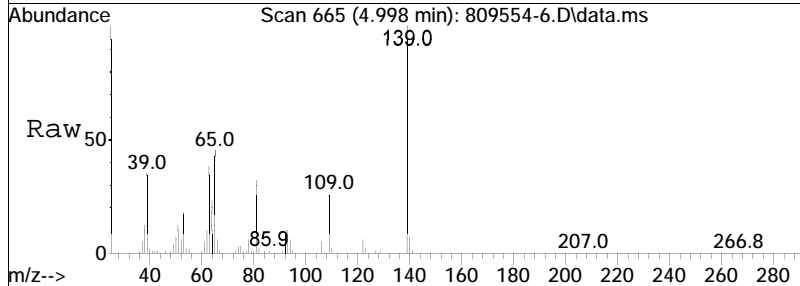
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
82	100		
138	16.7	13.6	20.4
95	7.4	5.1	7.7

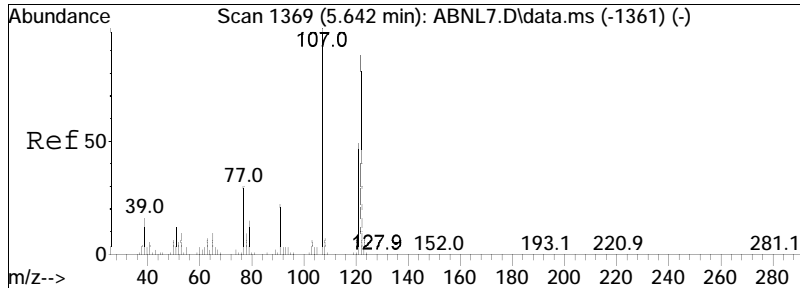




#22
 2-Nitrophenol
 Concen: 29.32 ug/ml
 RT: 4.998 min Scan# 665
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

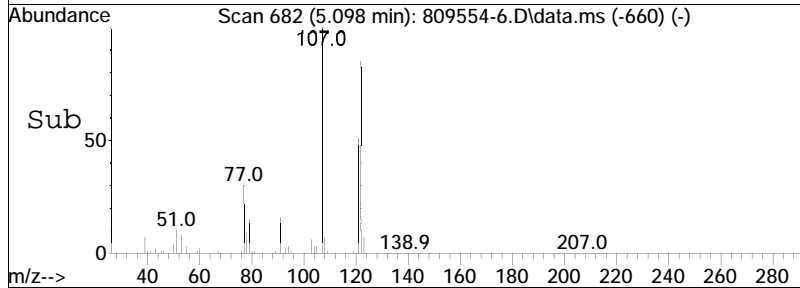
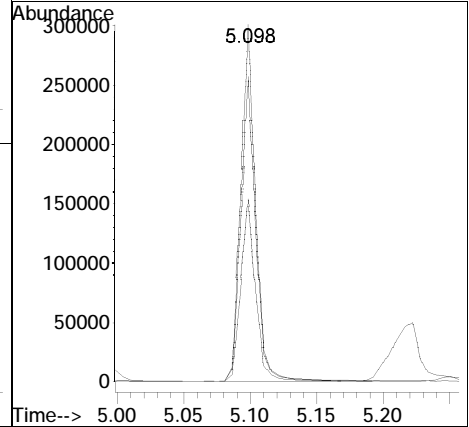
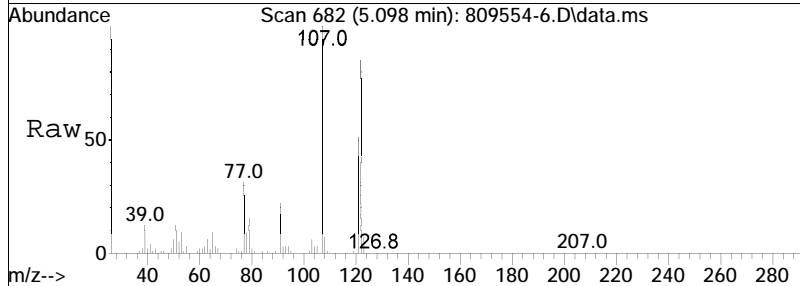
Tgt Ion	Ratio	Lower	Upper
139	100		
109	27.7	19.8	29.6
65	48.0	39.6	59.4

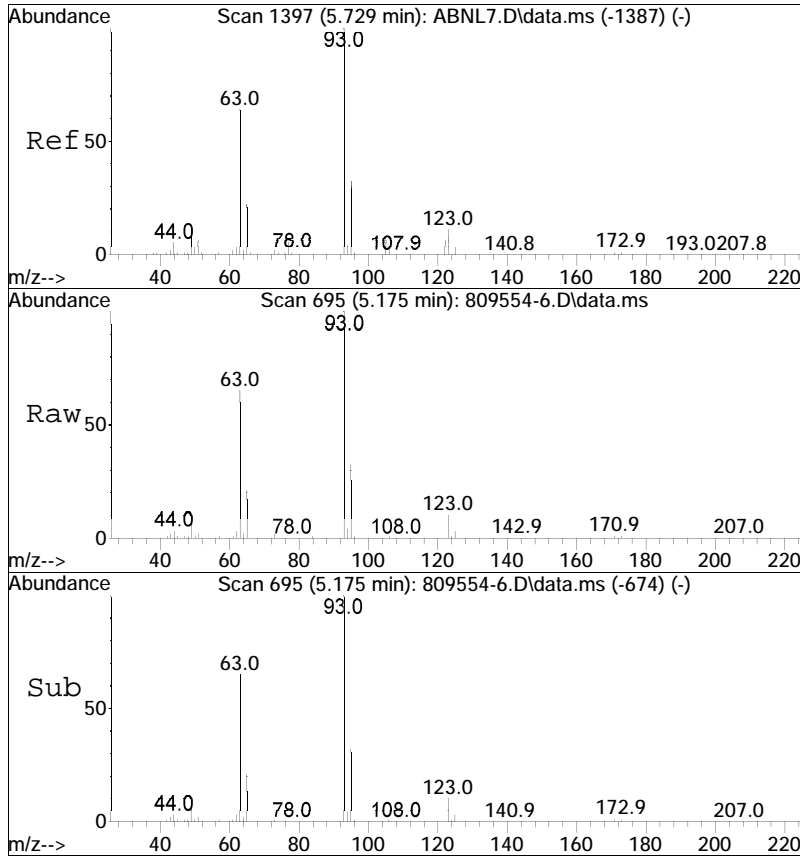




#23
 2,4-Dimethylphenol
 Concen: 27.35 ug/ml
 RT: 5.098 min Scan# 682
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

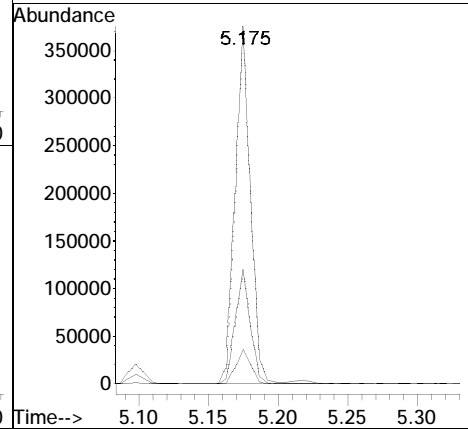
Tgt Ion	Resp	Lower	Upper
107	100		
121	51.4	43.0	64.4
122	85.1	71.8	107.8

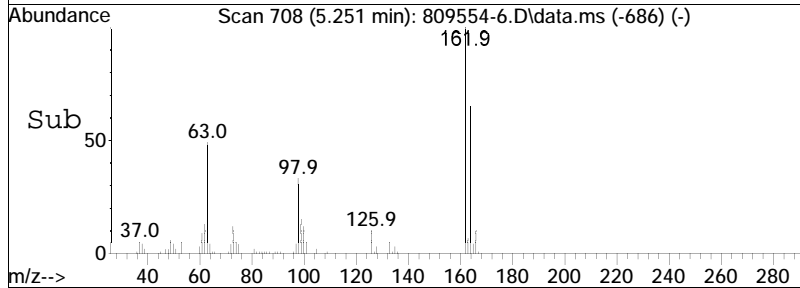
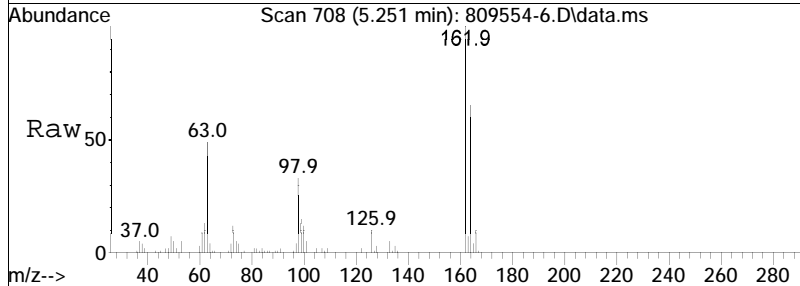
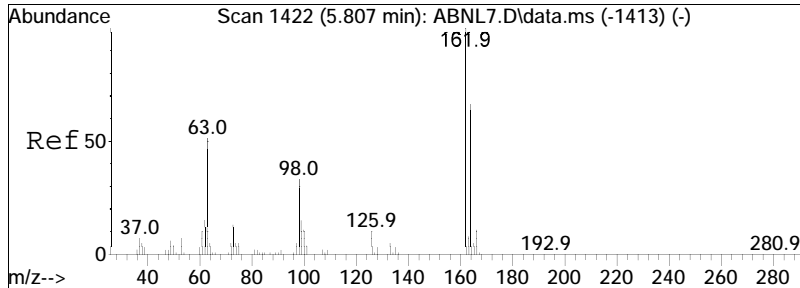




#24
 Bis(2-chloroethoxy)methane
 Concen: 26.39 ug/ml
 RT: 5.175 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

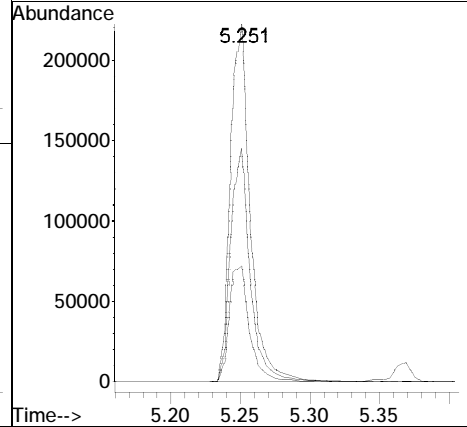
Tgt Ion	Resp	Lower	Upper
93	100		
95	31.7	26.6	40.0
123	9.6	11.0	16.4#

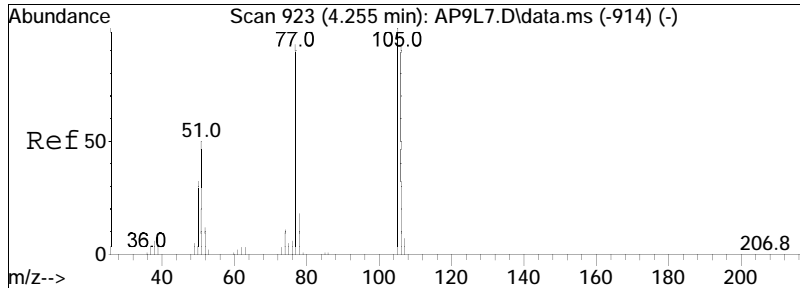




#25
 2,4-Dichlorophenol
 Concen: 29.56 ug/ml
 RT: 5.251 min Scan# 708
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

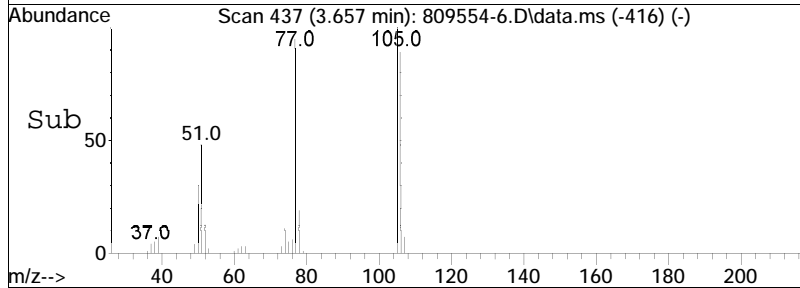
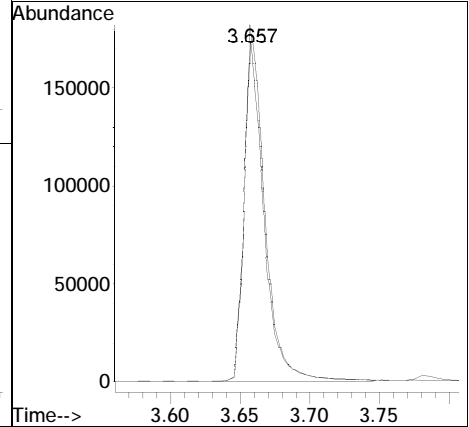
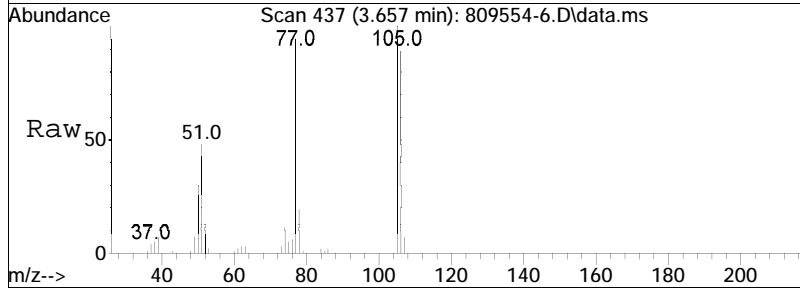
Tgt Ion	Ratio	Lower	Upper
162	100		
164	64.3	51.6	77.4
98	33.4	29.4	44.2

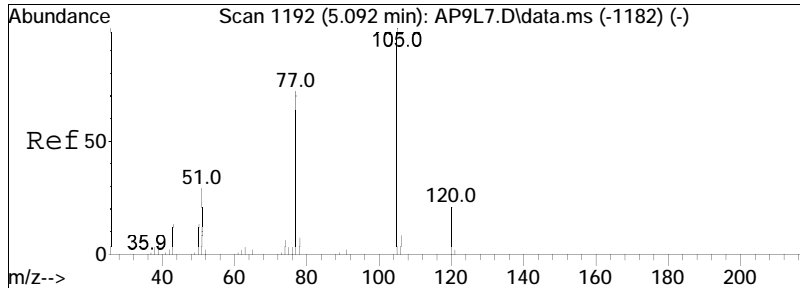




#28
 Benzaldehyde
 Concen: 35.32 ug/ml
 RT: 3.657 min Scan# 437
 Delta R.T. -0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

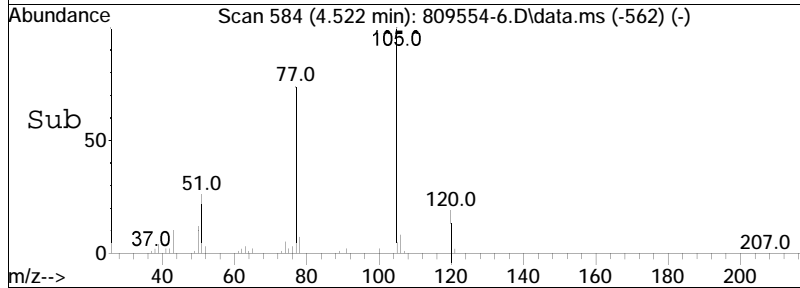
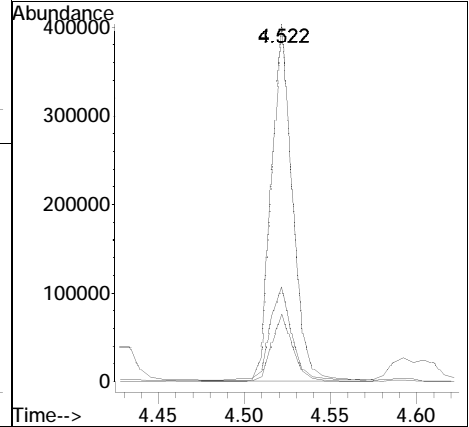
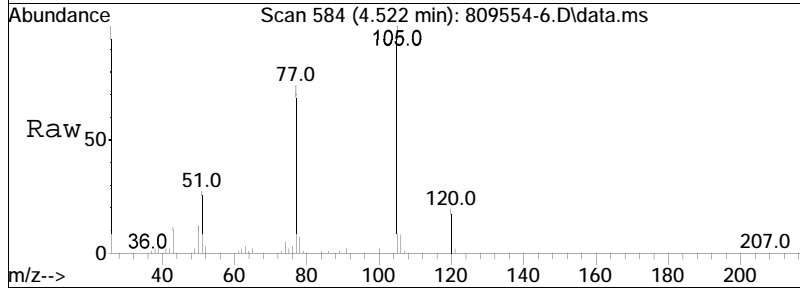
Tgt Ion	105	Resp	184624
Ion Ratio	Lower	Upper	
105	100		
77	93.7	76.9	115.3

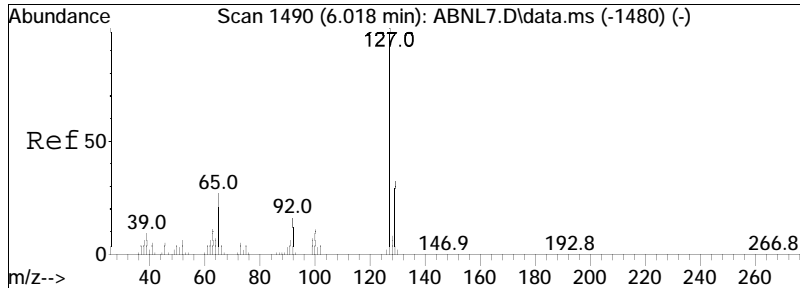




#29
 Acetophenone
 Concen: 29.90 ug/ml
 RT: 4.522 min Scan# 584
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

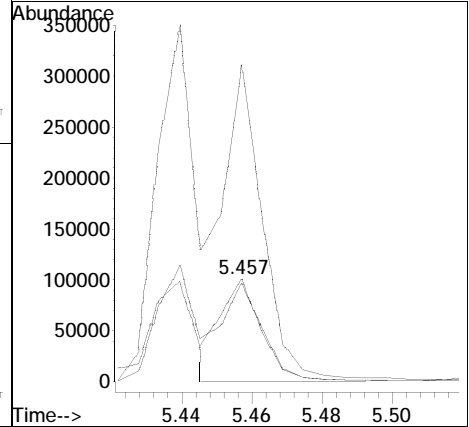
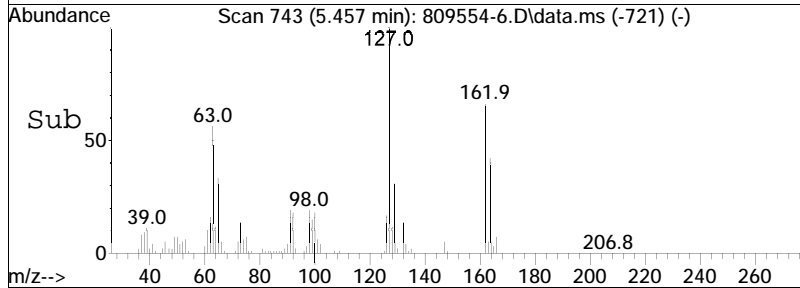
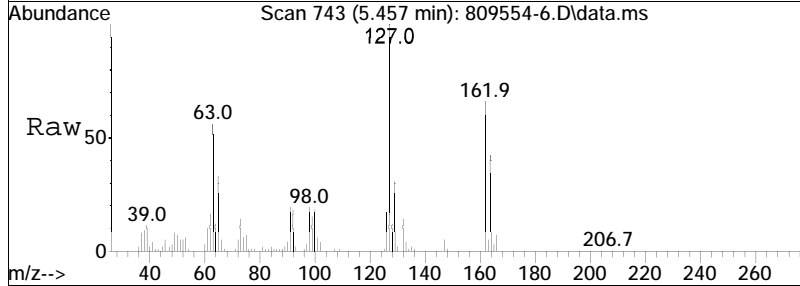
Tgt Ion	Ratio	Lower	Upper
105	100		
120	19.0	15.9	23.9
51	27.3	25.2	37.8

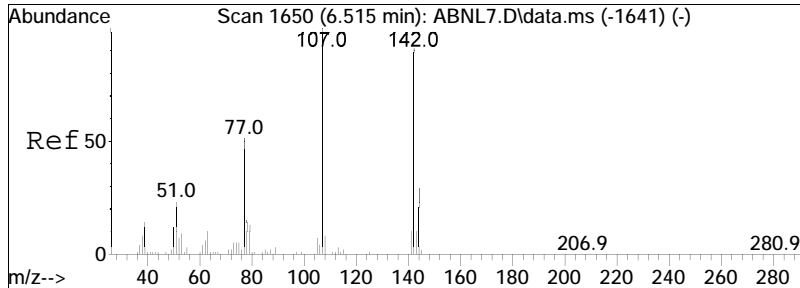




#38
 4-Chloroaniline
 Concen: 25.10 ug/ml M3
 RT: 5.457 min Scan# 743
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

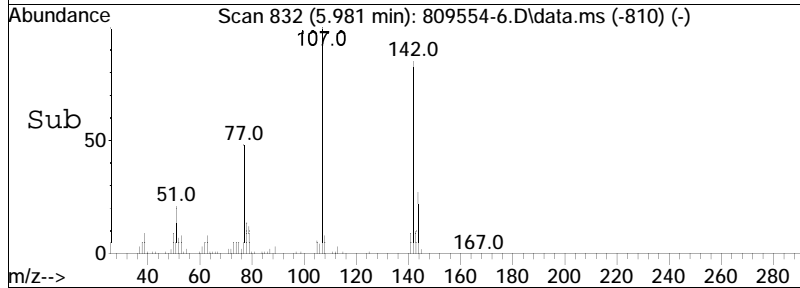
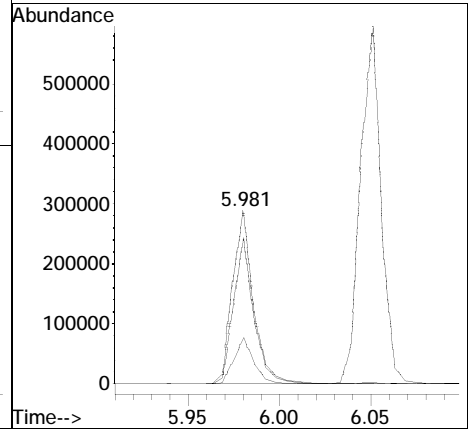
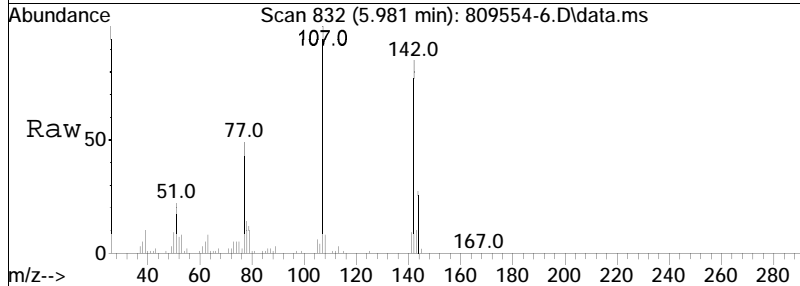
Tgt Ion:	Resp:	Lower	Upper
65	100		
127	385.8	274.4	411.6
129	125.1	88.2	132.4

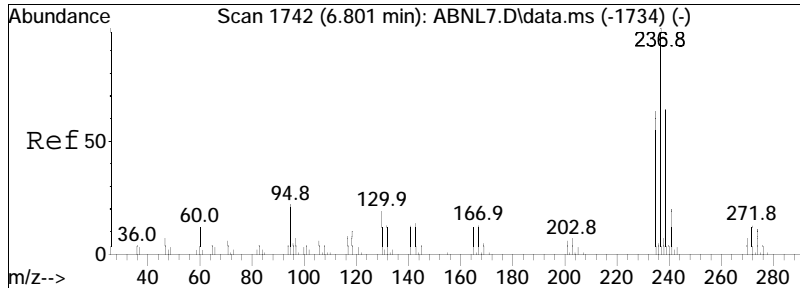




#40
 p-Chloro-m-cresol
 Concen: 29.31 ug/ml
 RT: 5.981 min Scan# 832
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

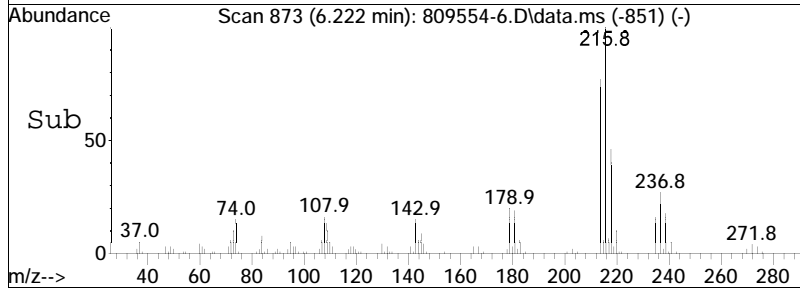
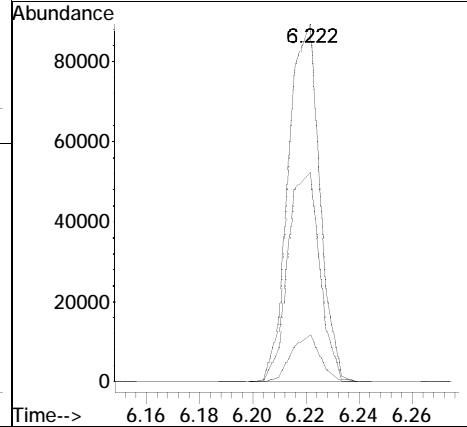
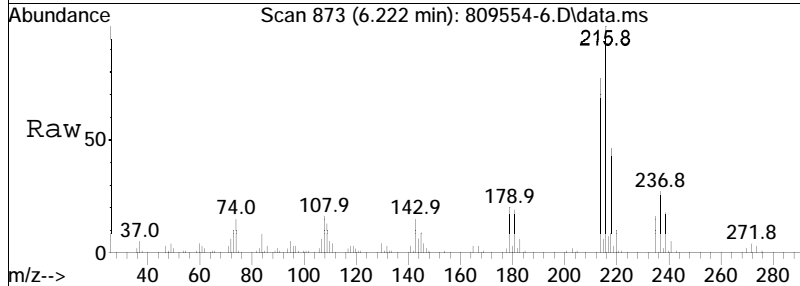
Tgt Ion	Resp	Lower	Upper
107	233195		
144	25.6	21.5	32.3
142	81.0	66.8	100.2

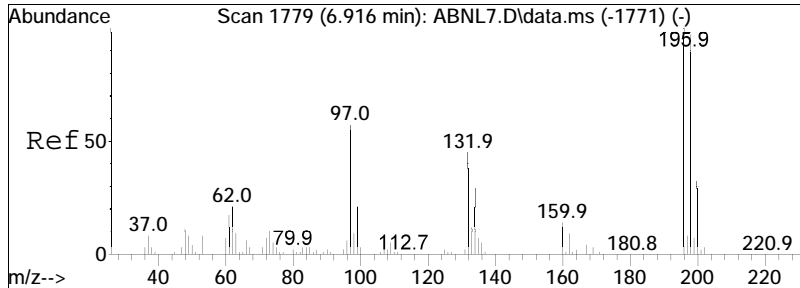




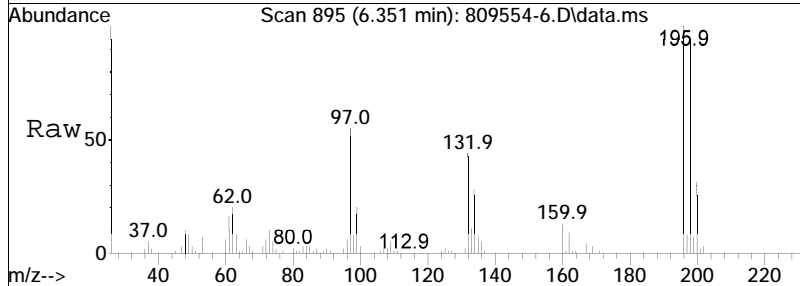
#43
 Hexachlorocyclopentadiene
 Concen: 19.50 ug/ml
 RT: 6.222 min Scan# 873
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

Tgt Ion	Resp	Lower	Upper
237	100		
235	59.9	49.5	74.3
272	12.3	10.2	15.4

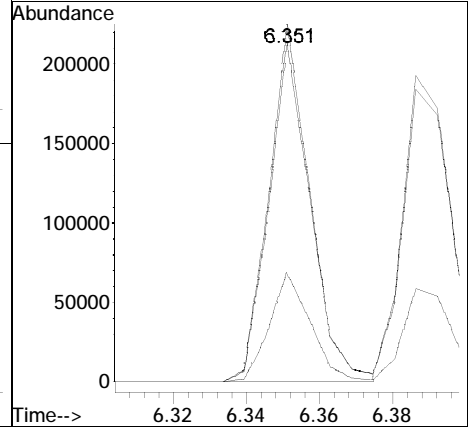
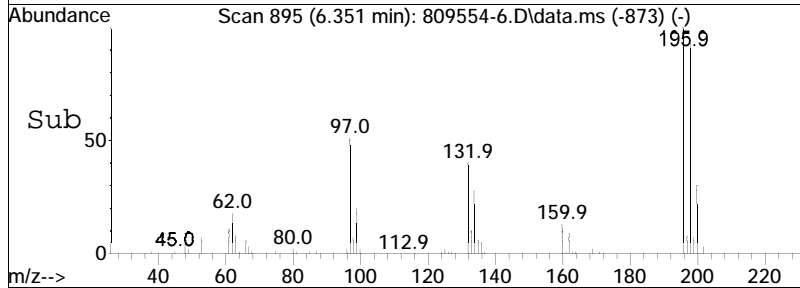


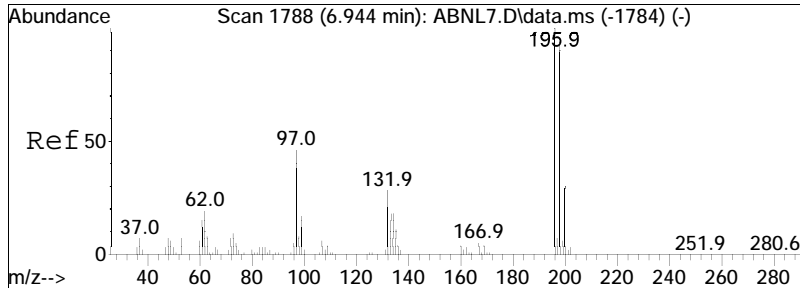


#44
 2,4,6-Trichlorophenol
 Concen: 31.64 ug/ml
 RT: 6.351 min Scan# 895
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am



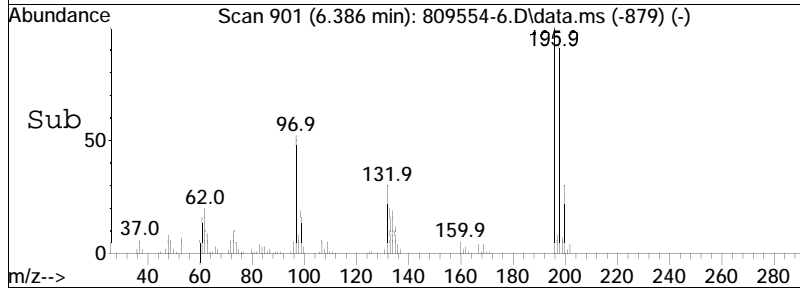
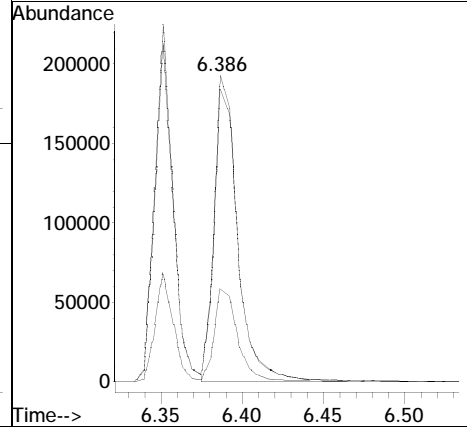
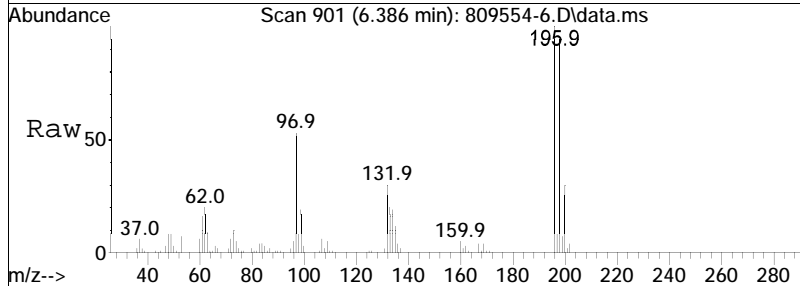
Tgt Ion	Resp	Lower	Upper
196	100		
198	95.7	76.4	114.6
200	30.7	24.4	36.6

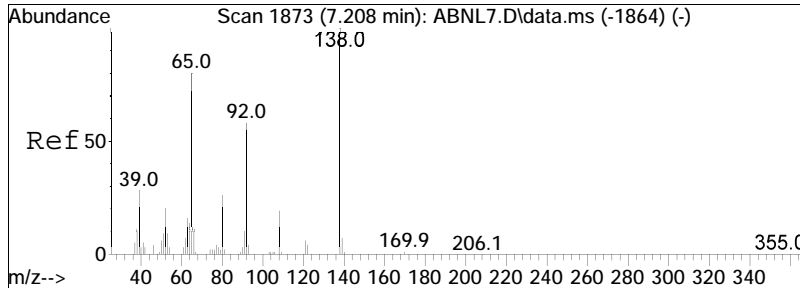




#45
 2,4,5-Trichlorophenol
 Concen: 31.30 ug/ml
 RT: 6.386 min Scan# 901
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

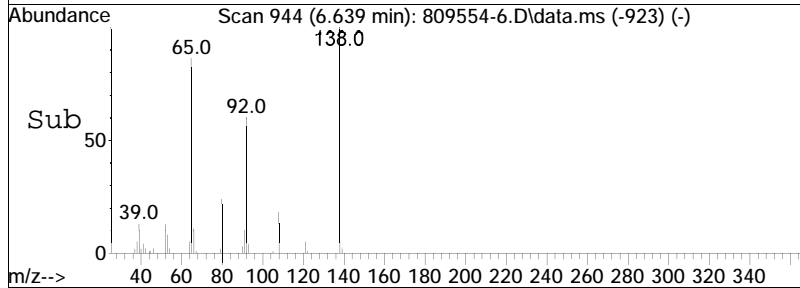
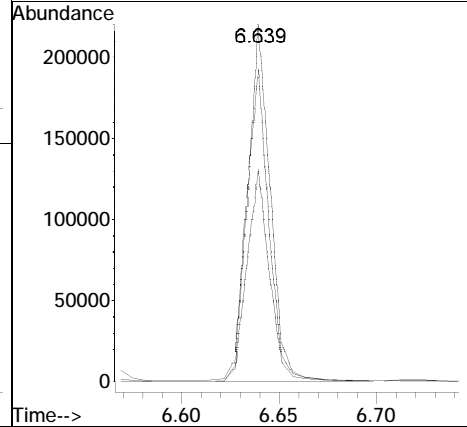
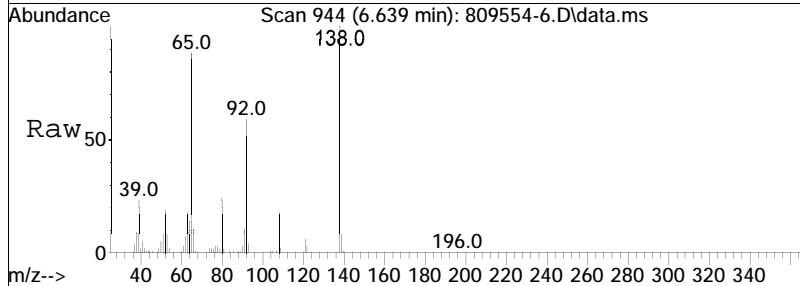
Tgt Ion	Resp	Lower	Upper
196	100		
200	30.9	25.2	37.8
198	96.8	77.7	116.5

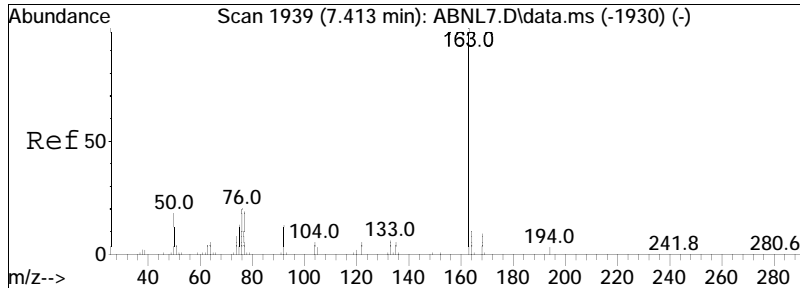




#48
 2-Nitroaniline
 Concen: 29.43 ug/ml
 RT: 6.639 min Scan# 944
 Delta R.T. -0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

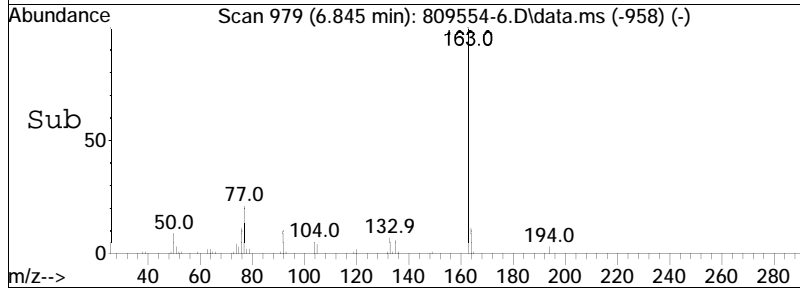
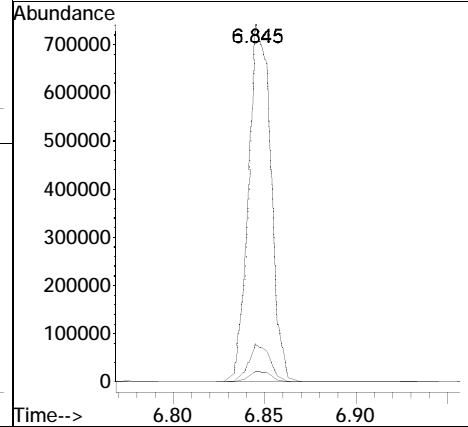
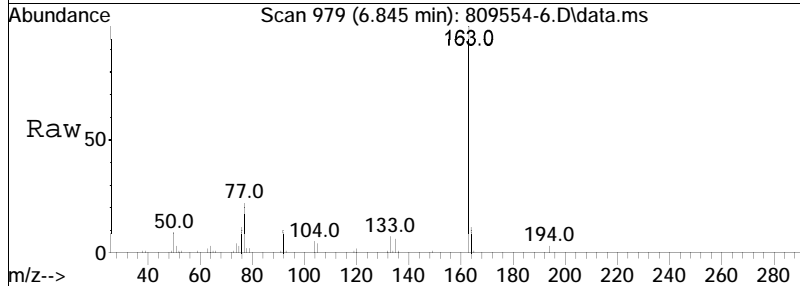
Tgt Ion	Ratio	Lower	Upper
138	100		
92	60.3	48.0	72.0
65	88.5	72.8	109.2

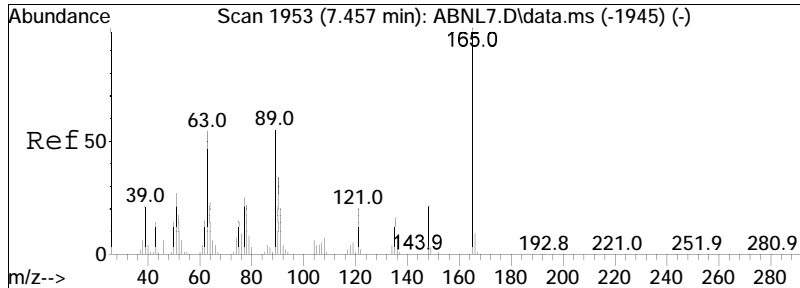




#51
 Dimethyl phthalate
 Concen: 28.44 ug/ml
 RT: 6.845 min Scan# 979
 Delta R.T. -0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

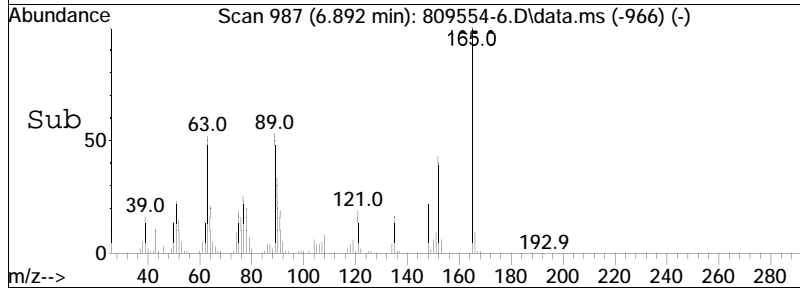
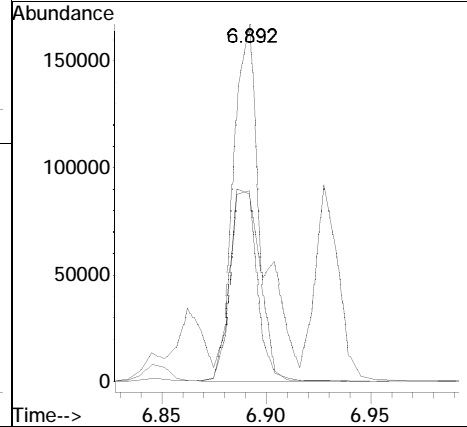
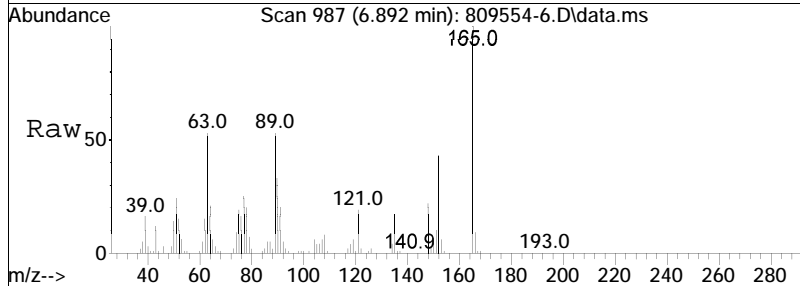
Tgt Ion	163	194	164	Resp:	624380
Ion Ratio	100	3.1	10.2	Lower	Upper
		2.4	8.1		
		3.6	12.1		

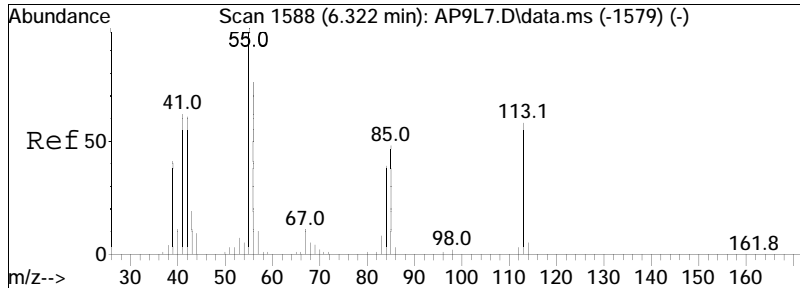




#53
 2,6-Dinitrotoluene
 Concen: 28.99 ug/ml
 RT: 6.892 min Scan# 987
 Delta R.T. -0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

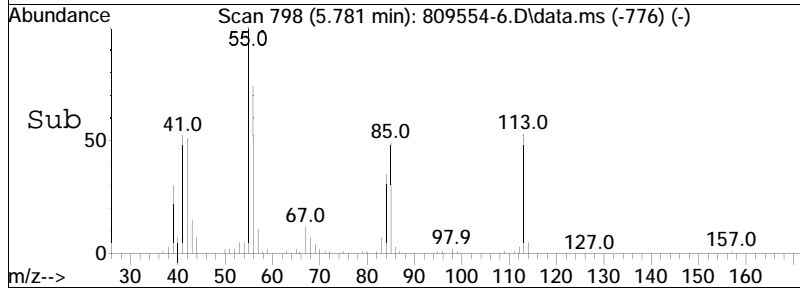
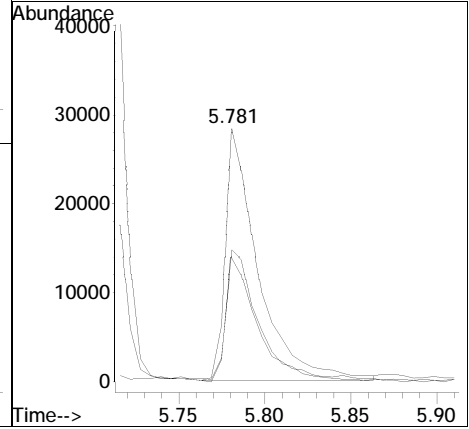
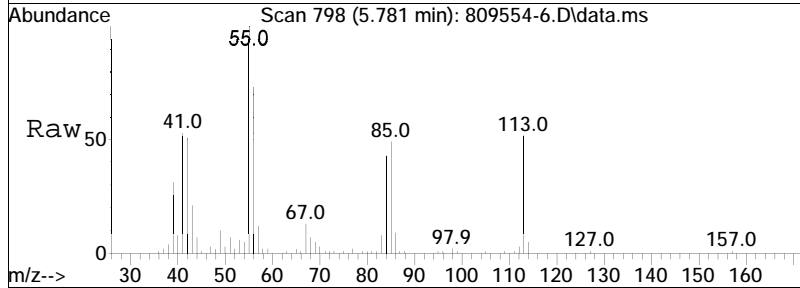
Tgt Ion	Ratio	Lower	Upper
165	100		
89	58.9	44.7	67.1
63	86.9	48.2	72.4#

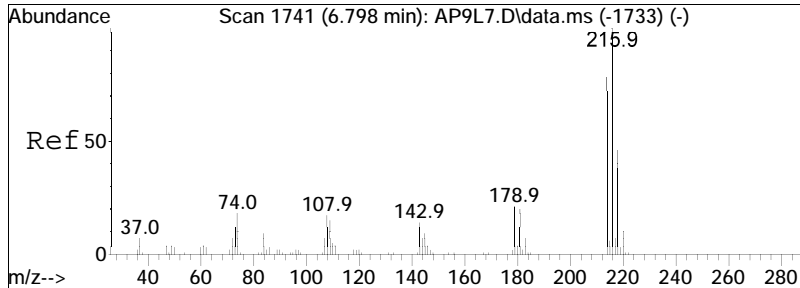




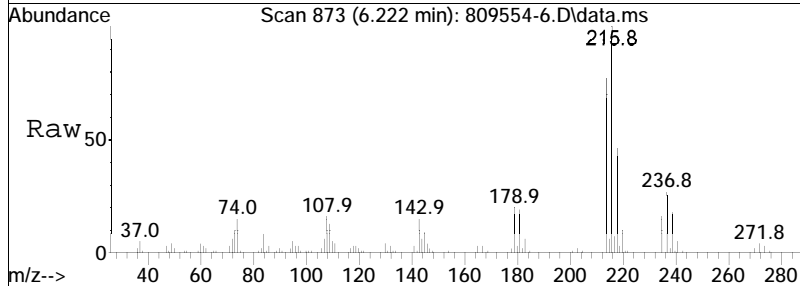
#60
 Caprolactam
 Concen: 9.86 ug/ml
 RT: 5.781 min Scan# 798
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
55	100		
85	49.0	30.9	46.3#
113	50.9	34.7	52.1

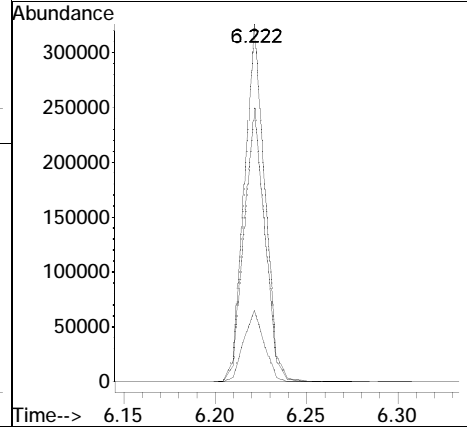
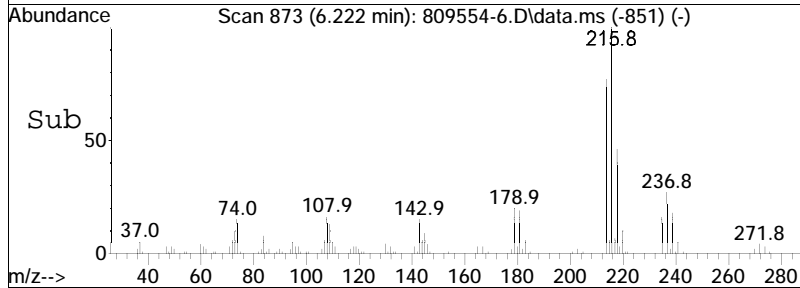


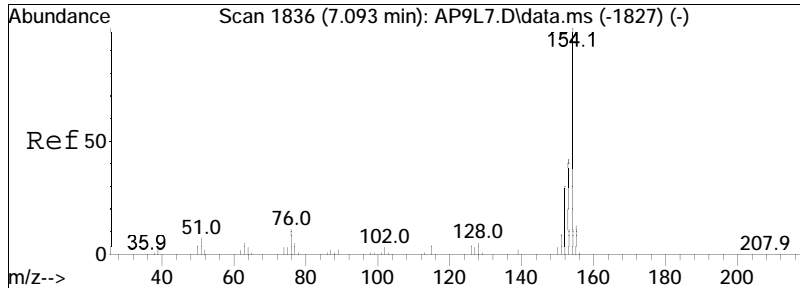


#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 28.51 ug/ml
 RT: 6.222 min Scan# 873
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am



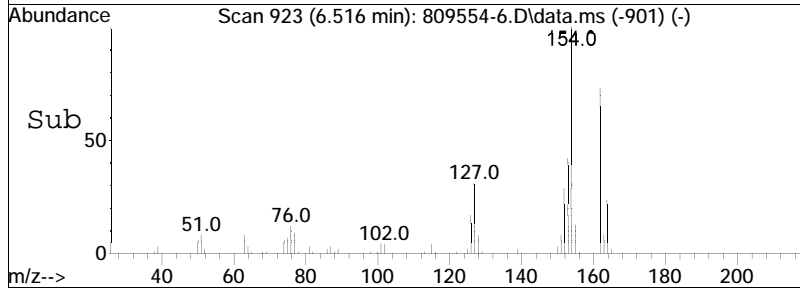
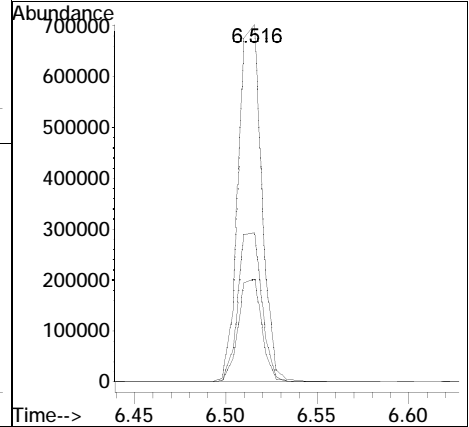
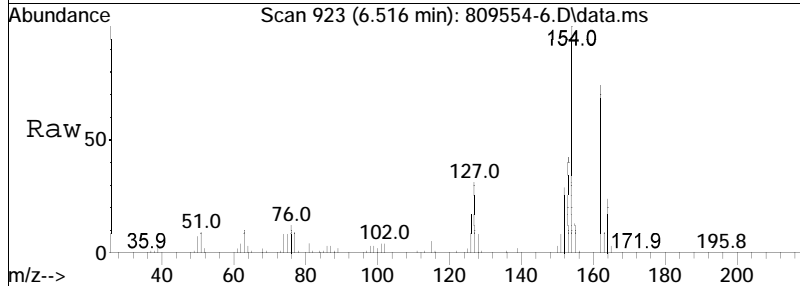
Tgt Ion	Ratio	Lower	Upper
216	100		
214	77.8	62.2	93.4
179	20.5	17.4	26.2

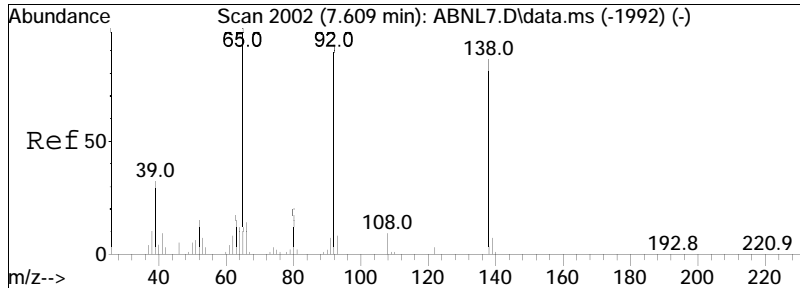




#62
 Biphenyl
 Concen: 29.96 ug/ml
 RT: 6.516 min Scan# 923
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

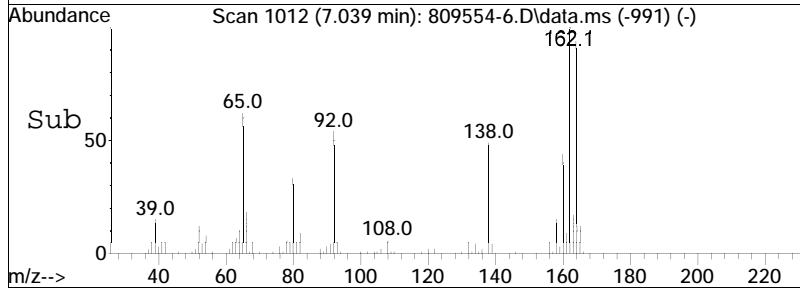
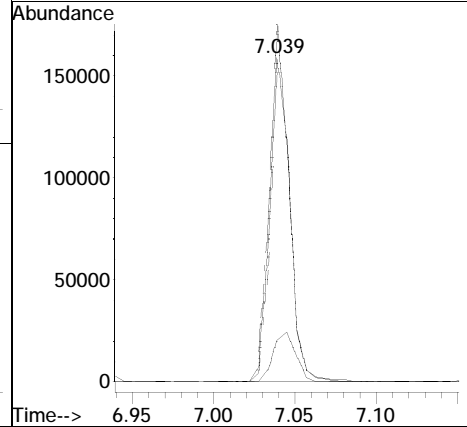
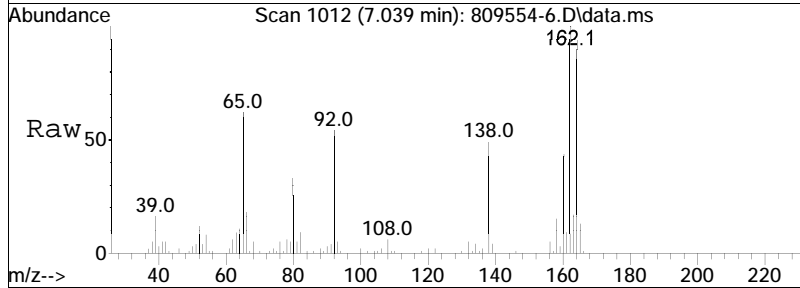
Tgt Ion	Ratio	Lower	Upper
154	100		
153	42.5	33.4	50.0
152	28.9	23.0	34.6

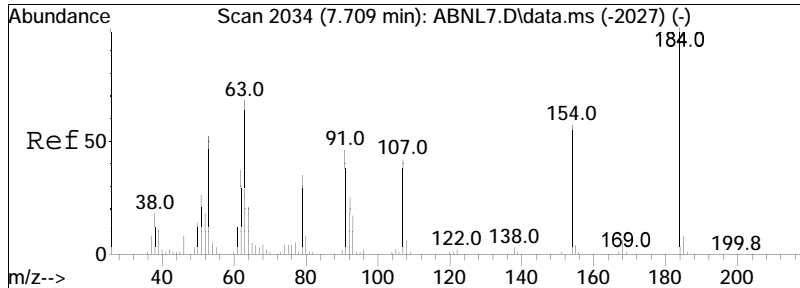




#64
 3-Nitroaniline
 Concen: 24.15 ug/ml
 RT: 7.039 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

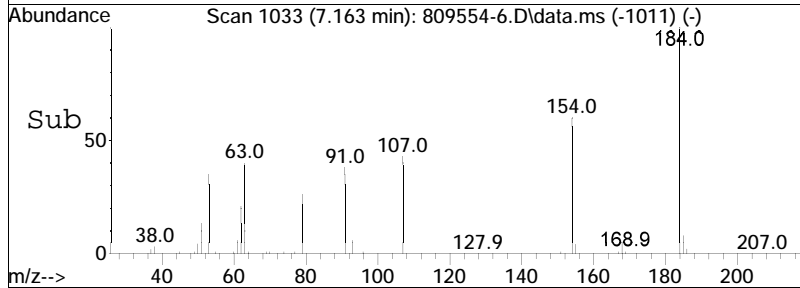
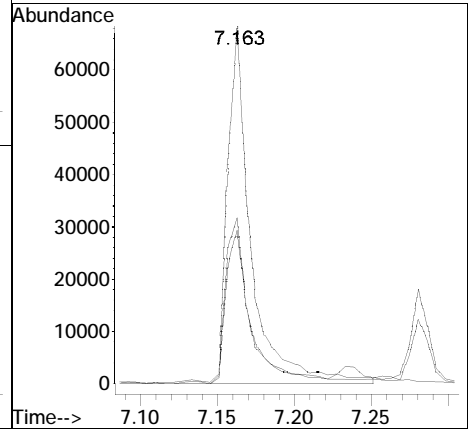
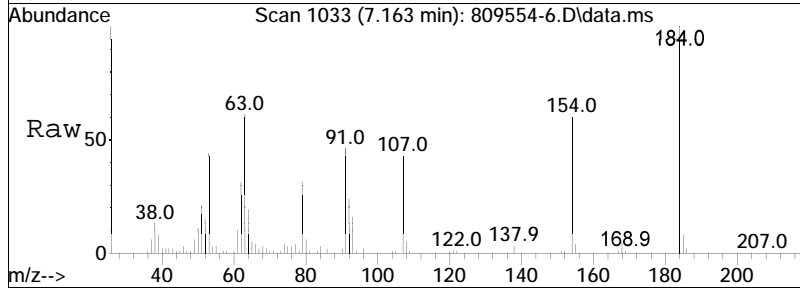
Tgt Ion	Ratio	Lower	Upper
138	100		
92	107.7	86.4	129.6
108	18.1	9.4	14.0#

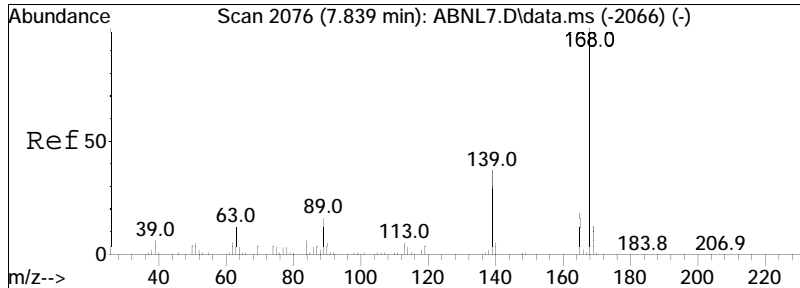




#66
 2,4-Dinitrophenol
 Concen: 28.53 ug/ml
 RT: 7.163 min Scan# 1033
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

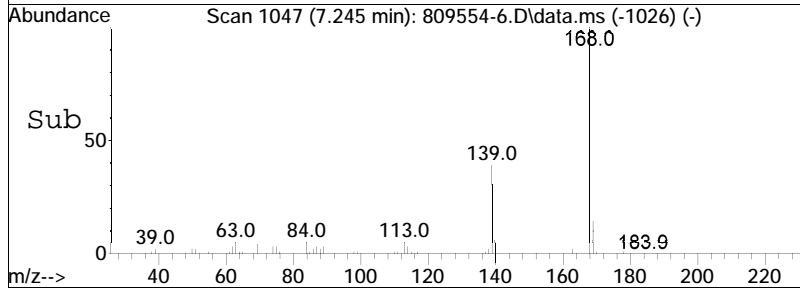
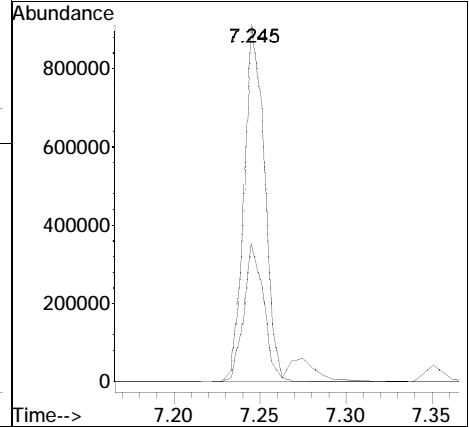
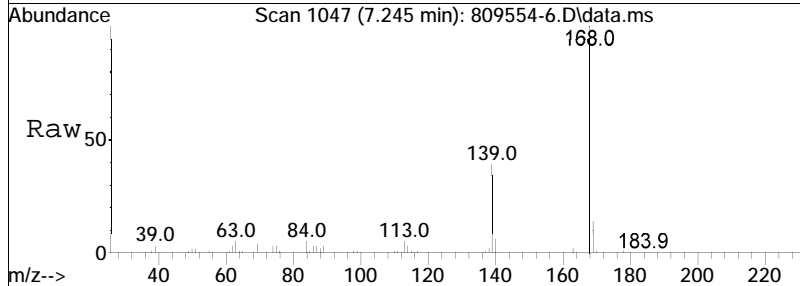
Tgt Ion	Ratio	Lower	Upper
184	100		
107	47.4	37.3	55.9
91	49.2	43.8	65.6

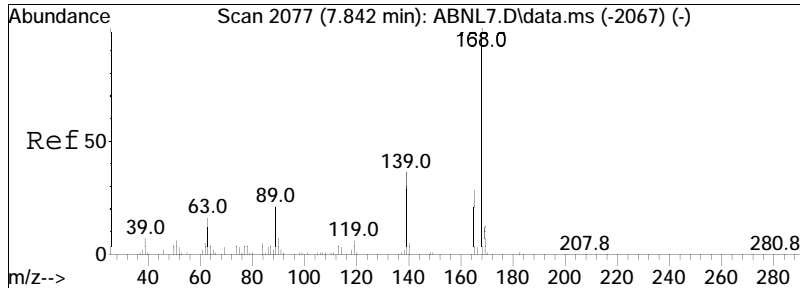




#67
 Dibenzofuran
 Concen: 27.58 ug/ml
 RT: 7.245 min Scan# 1047
 Delta R.T. -0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

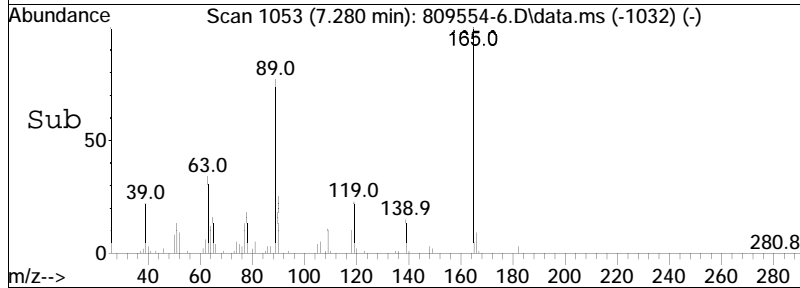
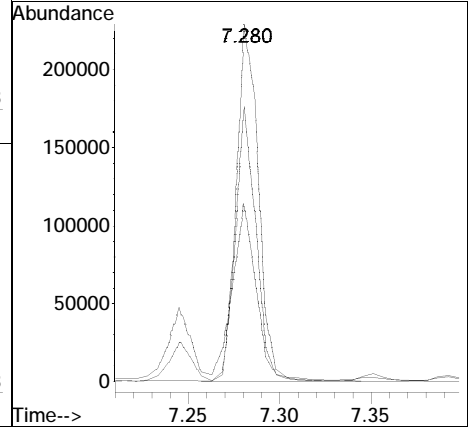
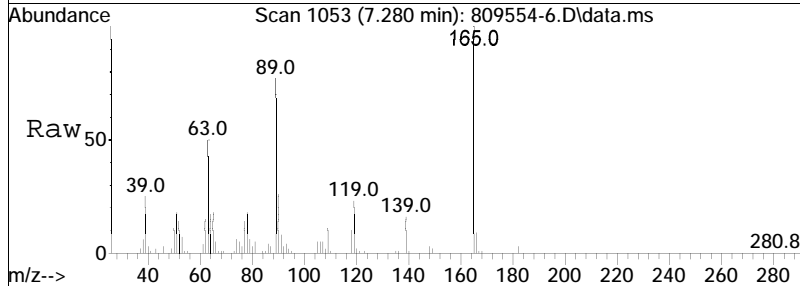
Tgt Ion	Resp	Lower	Upper
168	100		
139	37.9	30.4	45.6

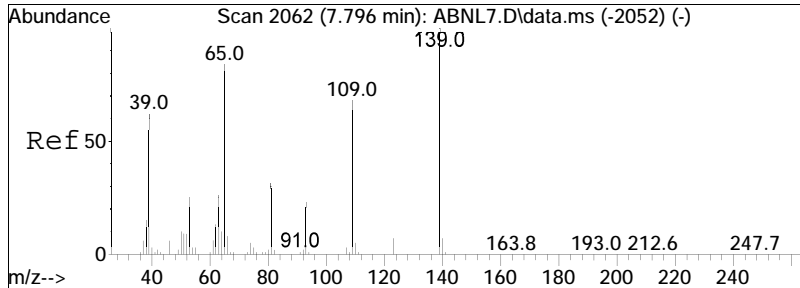




#68
 2,4-Dinitrotoluene
 Concen: 30.49 ug/ml
 RT: 7.280 min Scan# 1053
 Delta R.T. -0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

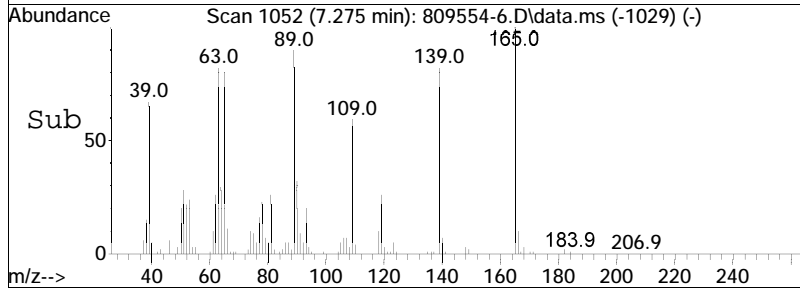
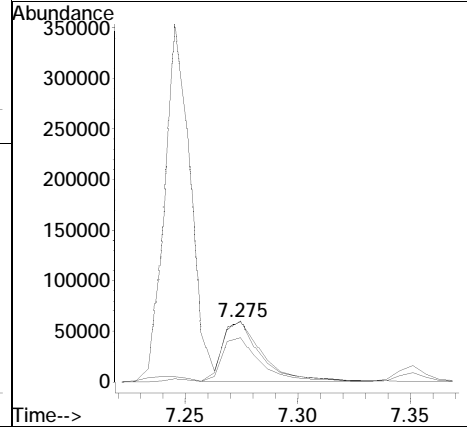
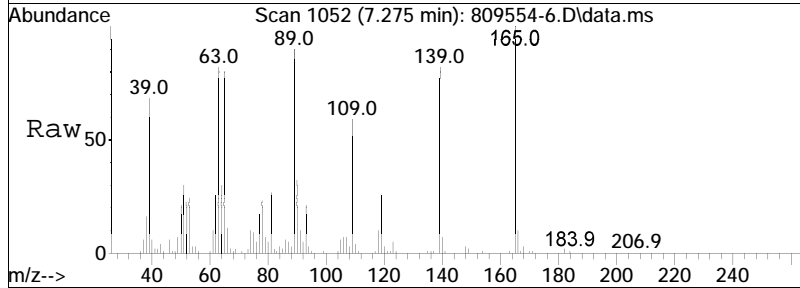
Tgt Ion	Resp	Lower	Upper
165	100		
89	71.1	69.8	104.8
63	52.6	59.2	88.8#

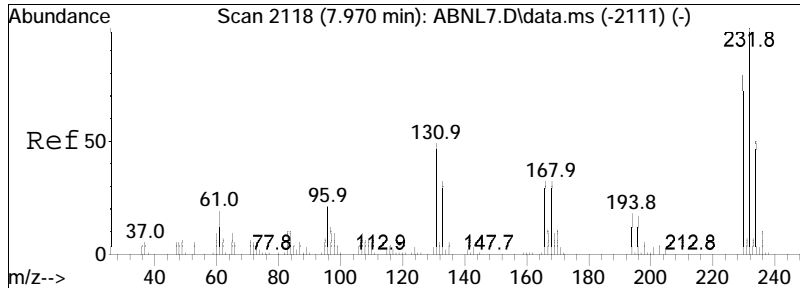




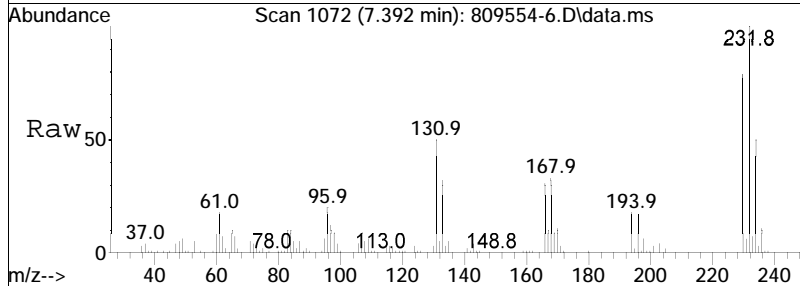
#69
 4-Nitrophenol
 Concen: 17.71 ug/ml
 RT: 7.275 min Scan# 1052
 Delta R.T. 0.009 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

Tgt Ion:	65	Resp:	72323
Ion Ratio	Lower	Upper	
65	100		
109	75.9	52.8	79.2
139	95.7	84.1	126.1

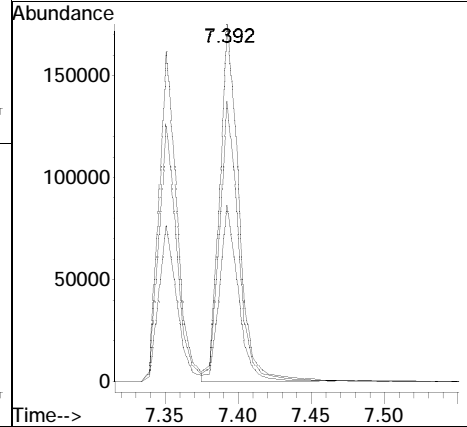
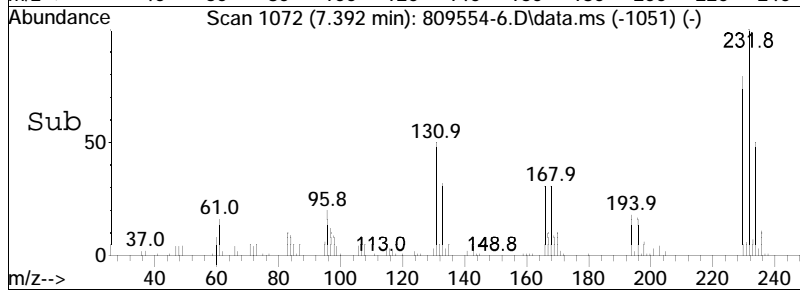


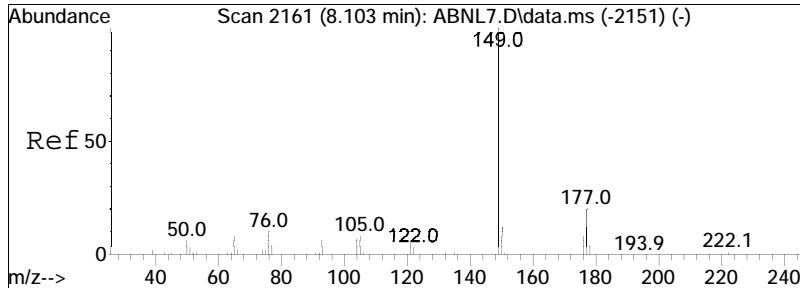


#71
 2,3,4,6-Tetrachlorophenol
 Concen: 29.06 ug/ml
 RT: 7.392 min Scan# 1072
 Delta R.T. -0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am



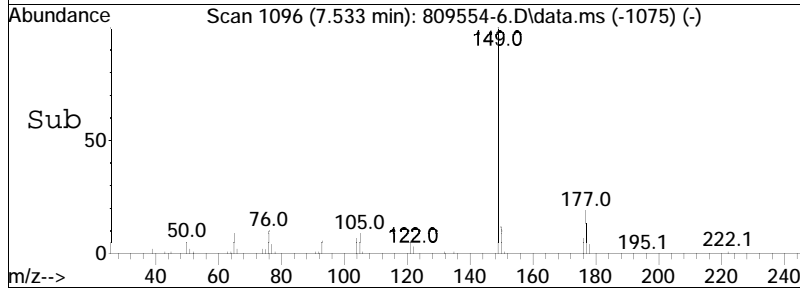
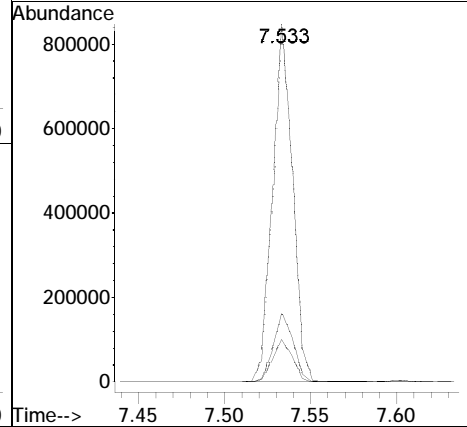
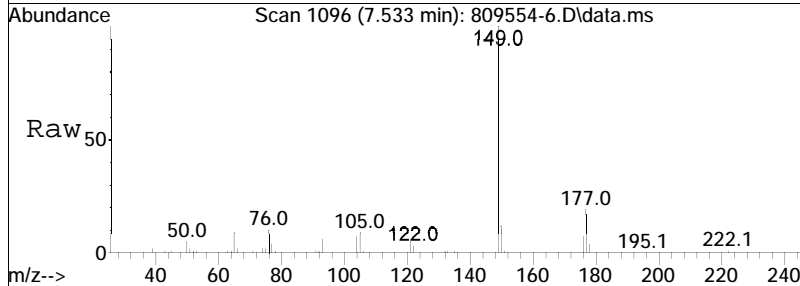
Tgt Ion	Ratio	Lower	Upper
232	100		
230	77.5	62.8	94.2
234	48.3	38.3	57.5

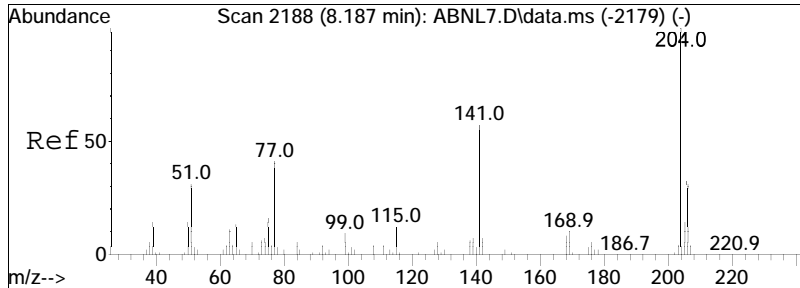




#72
 Diethyl phthalate
 Concen: 26.78 ug/ml
 RT: 7.533 min Scan# 1096
 Delta R.T. -0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

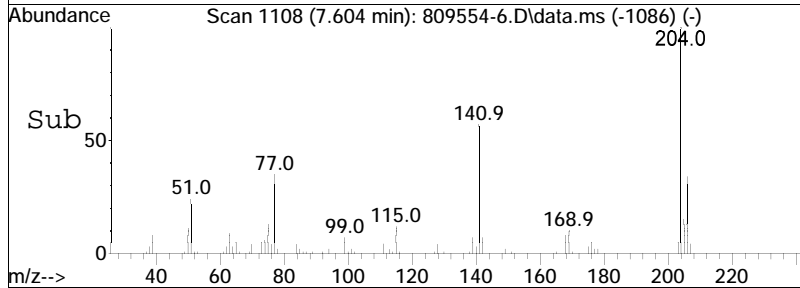
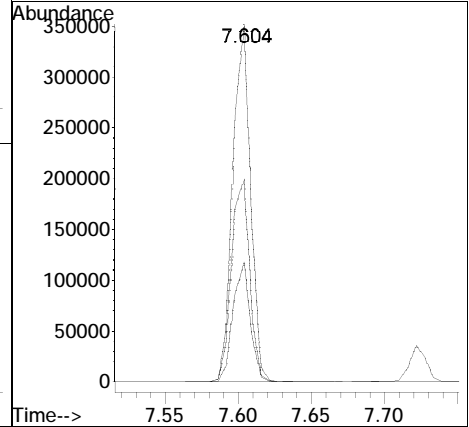
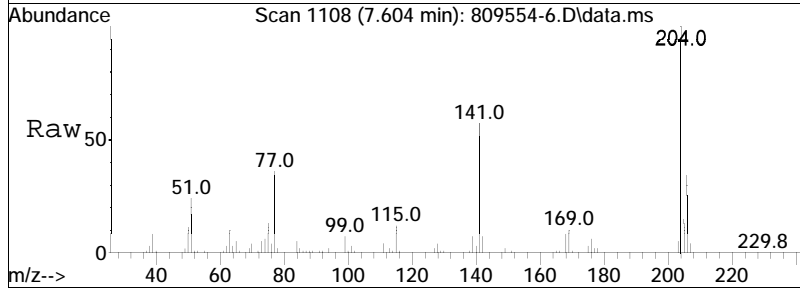
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.6	15.6	23.4
150	12.2	9.6	14.4

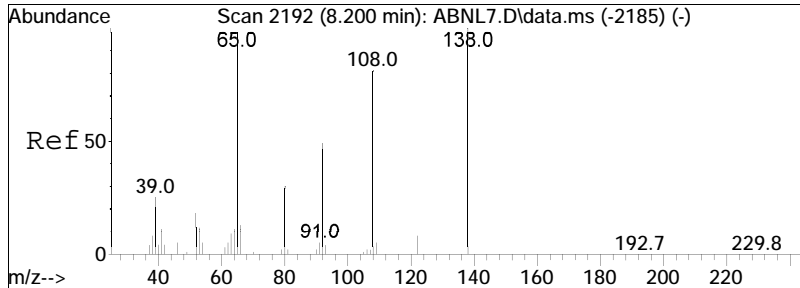




#74
 4-Chlorophenyl phenyl ether
 Concen: 27.58 ug/ml
 RT: 7.604 min Scan# 1108
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

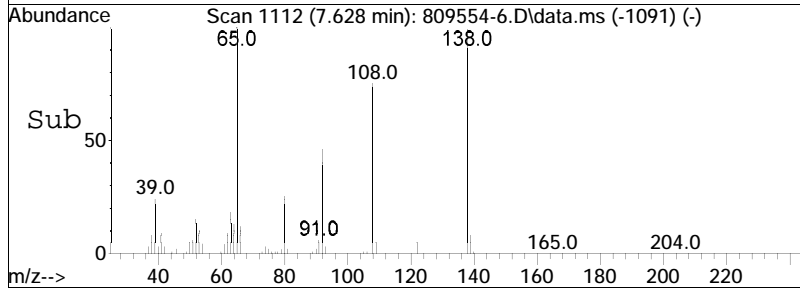
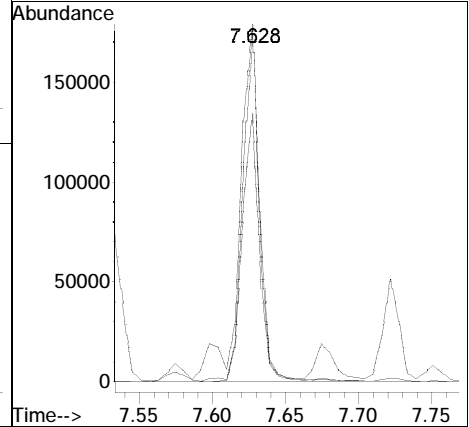
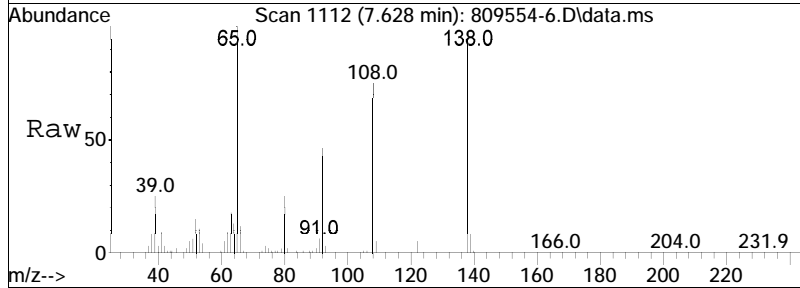
Tgt Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.0	39.0
141	58.7	48.5	72.7

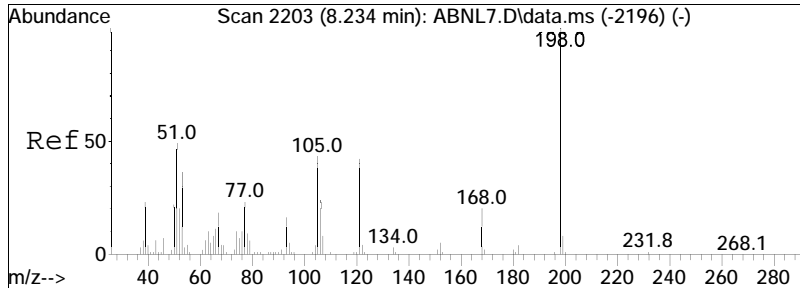




#75
 4-Nitroaniline
 Concen: 25.85 ug/ml
 RT: 7.628 min Scan# 1112
 Delta R.T. -0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

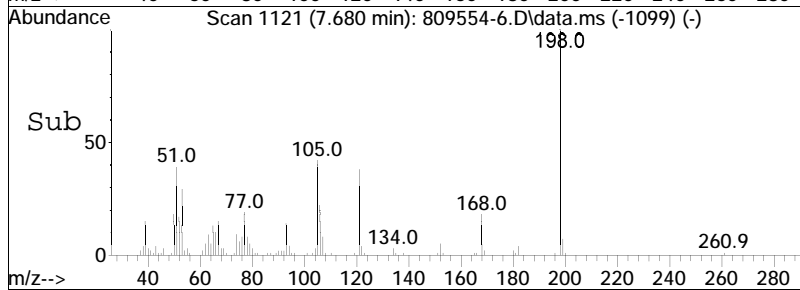
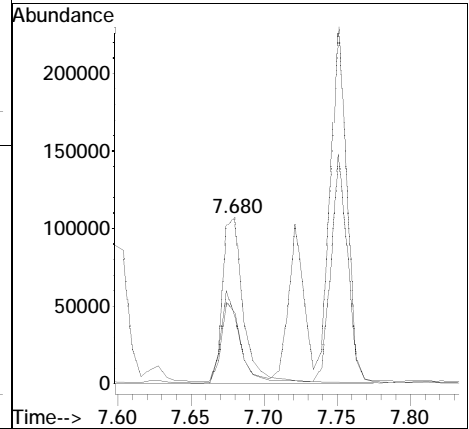
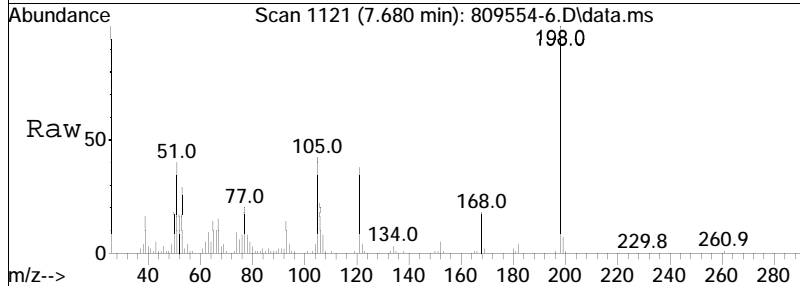
Tgt Ion	Resp	Lower	Upper
138	139607		
138	100		
108	77.4	54.4	81.6
65	115.0	100.1	150.1

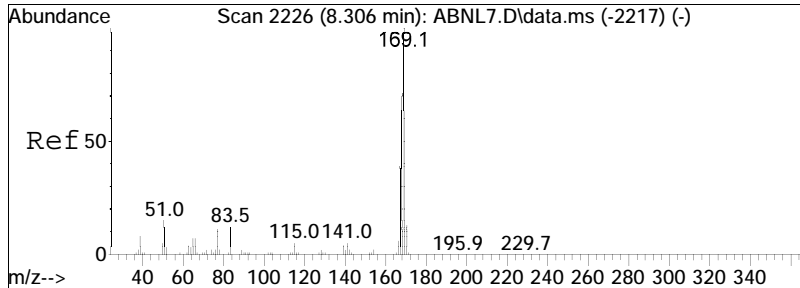




#76
 4,6-Dinitro-o-cresol
 Concen: 33.35 ug/ml
 RT: 7.680 min Scan# 1121
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

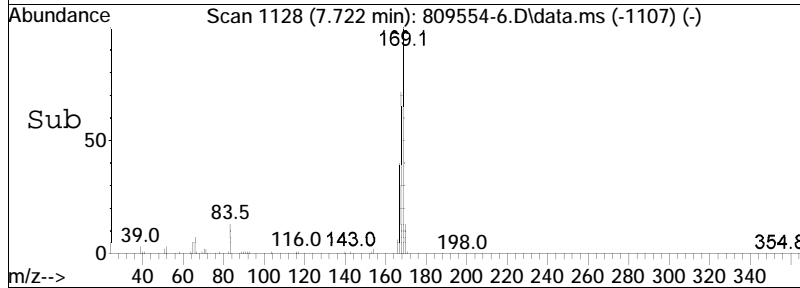
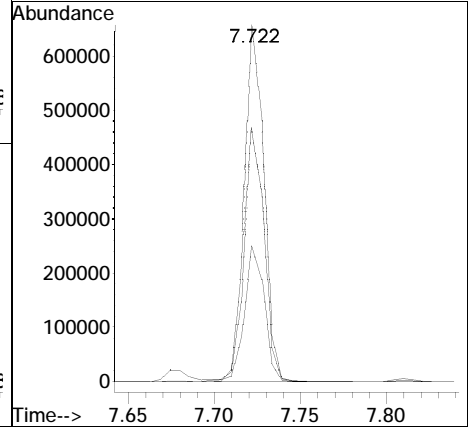
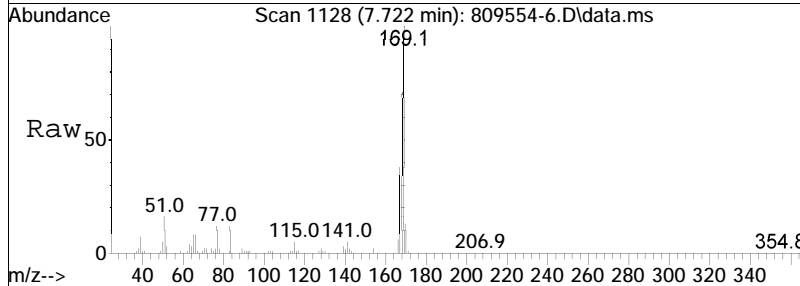
Tgt Ion	Resp	Lower	Upper
198	107938		
51	46.7	48.3	72.5#
105	46.6	38.4	57.6

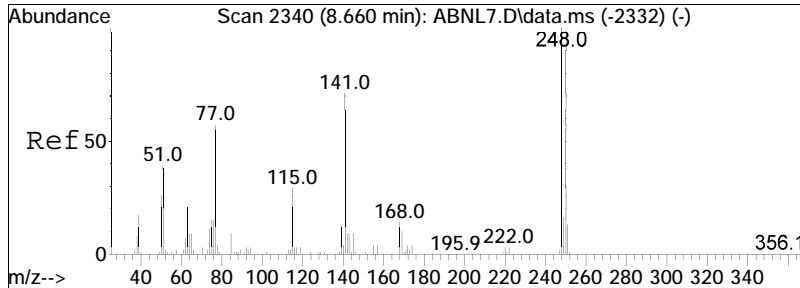




#77
 NDPA/DPA
 Concen: 27.77 ug/ml
 RT: 7.722 min Scan# 1128
 Delta R.T. -0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

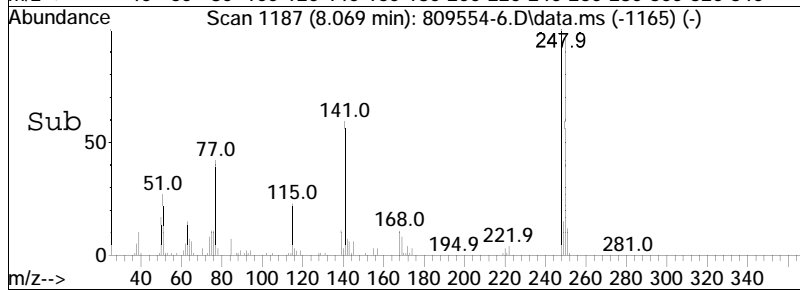
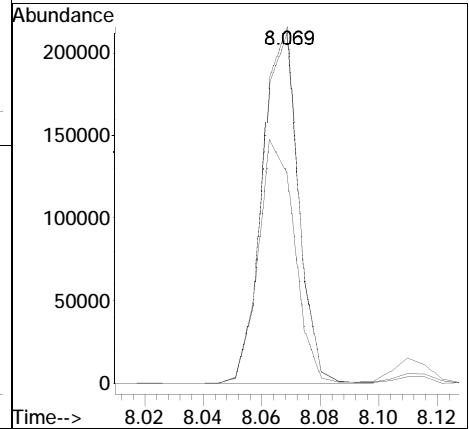
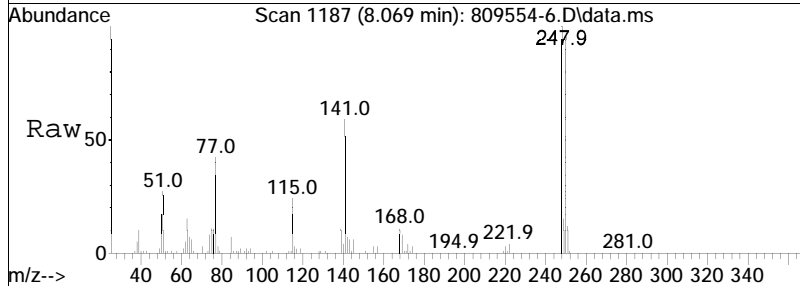
Tgt Ion	Resp	Lower	Upper
169	100		
168	72.7	57.2	85.8
167	39.3	31.0	46.4

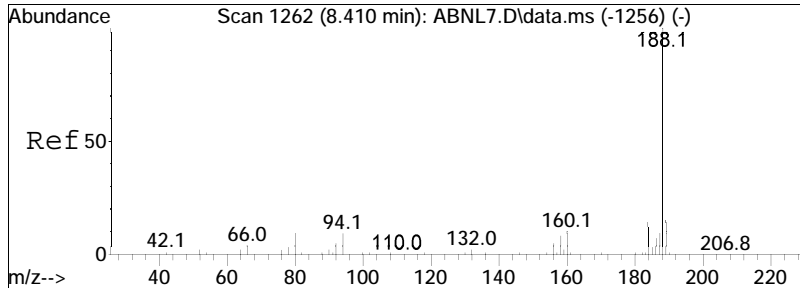




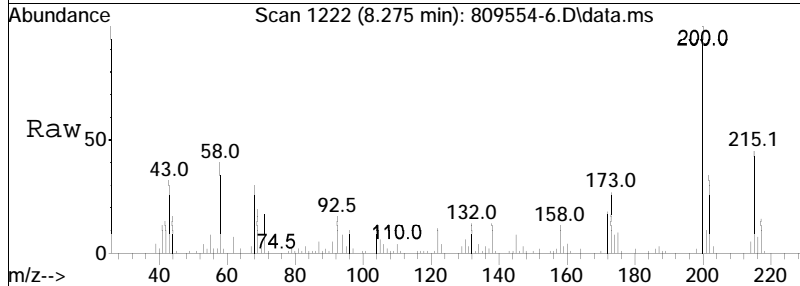
#80
 4-Bromophenyl phenyl ether
 Concen: 28.15 ug/ml
 RT: 8.069 min Scan# 1187
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

Tgt Ion	Ratio	Lower	Upper
248	100		
141	69.6	59.9	89.9
250	98.6	78.0	117.0

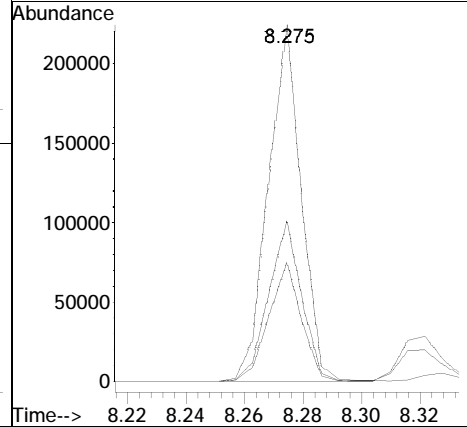
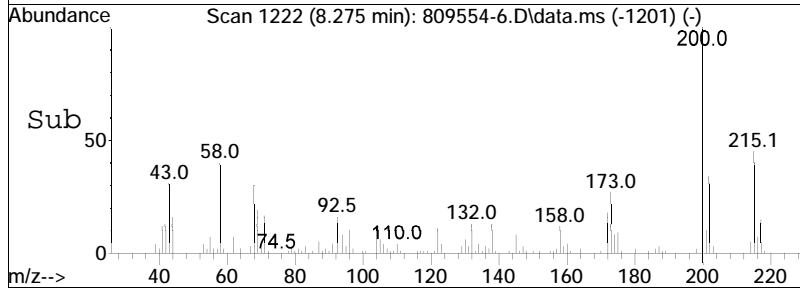


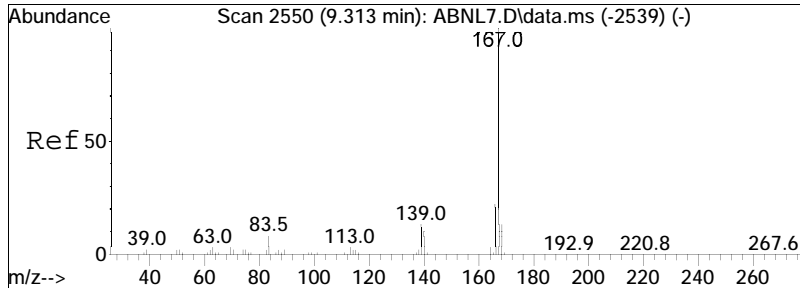


#87
 Atrazine
 Concen: 28.28 ug/ml
 RT: 8.275 min Scan# 1222
 Delta R.T. -0.000 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am



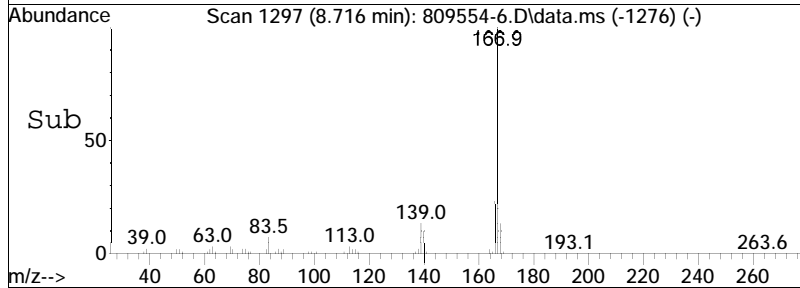
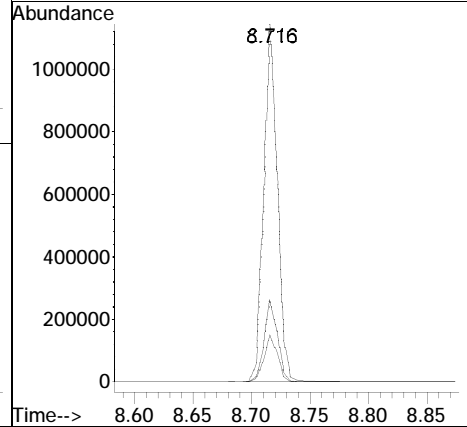
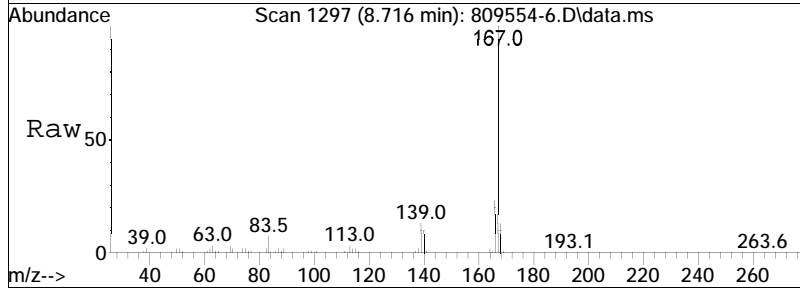
Tgt Ion	Resp	Lower	Upper
200	100		
202	33.3	26.1	39.1
215	45.3	36.2	54.2

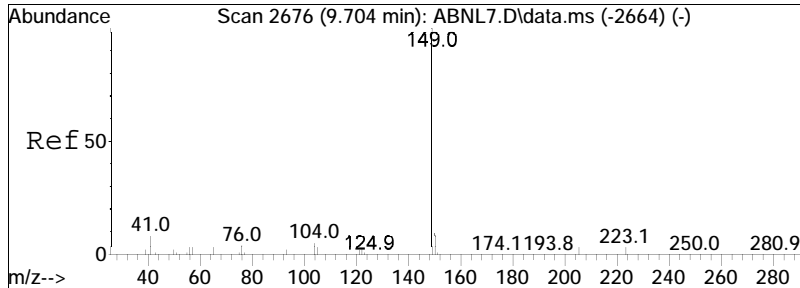




#91
 Carbazole
 Concen: 27.96 ug/ml
 RT: 8.716 min Scan# 1297
 Delta R.T. -0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

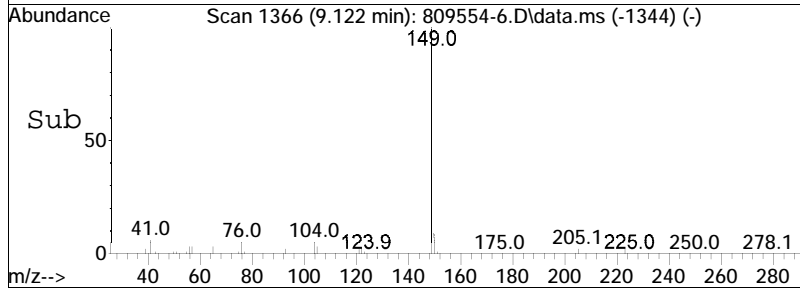
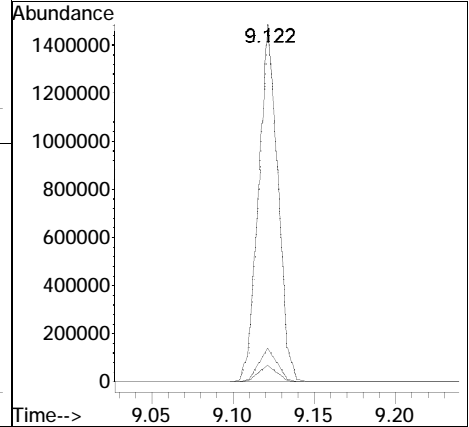
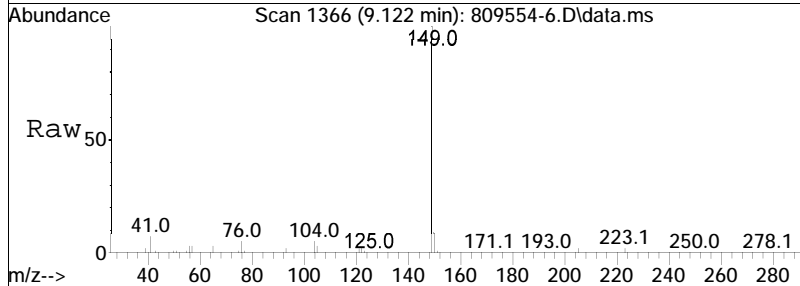
Tgt Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	16.0
166	22.9	18.0	27.0

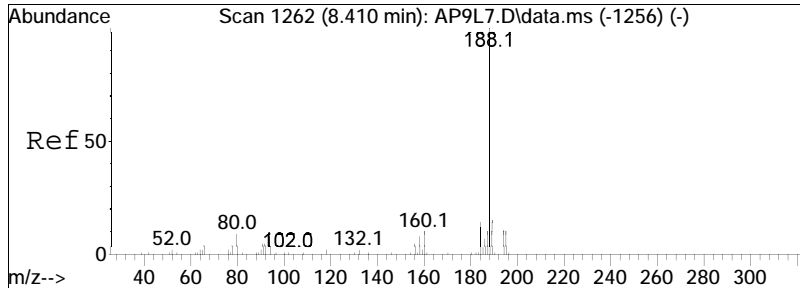




#92
 Di-n-butylphthalate
 Concen: 27.32 ug/ml
 RT: 9.122 min Scan# 1366
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

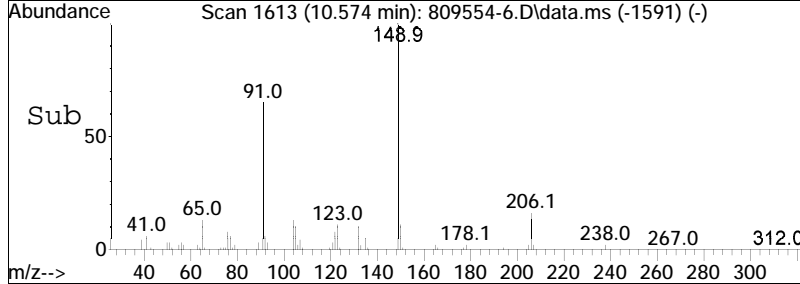
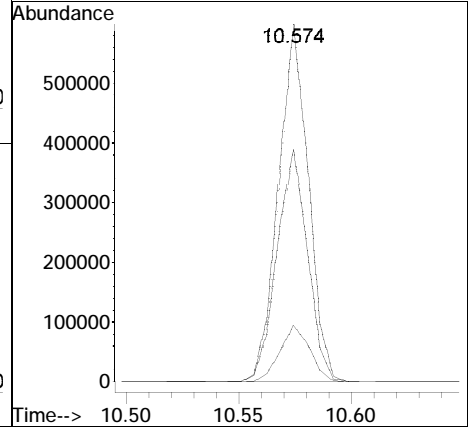
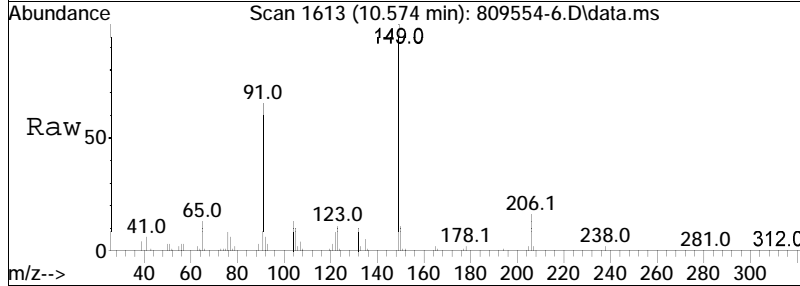
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	4.7	3.6	5.4

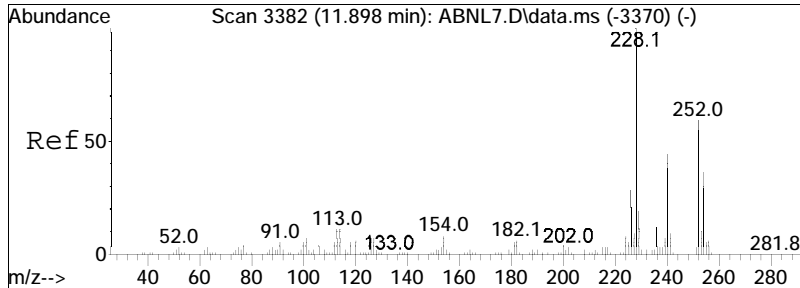




#97
 Butyl benzyl phthalate
 Concen: 27.33 ug/ml
 RT: 10.574 min Scan# 1613
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

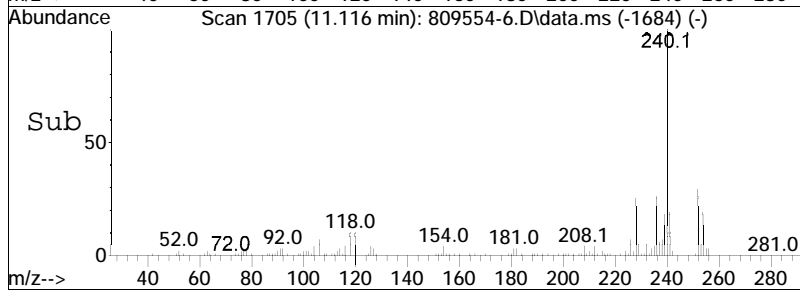
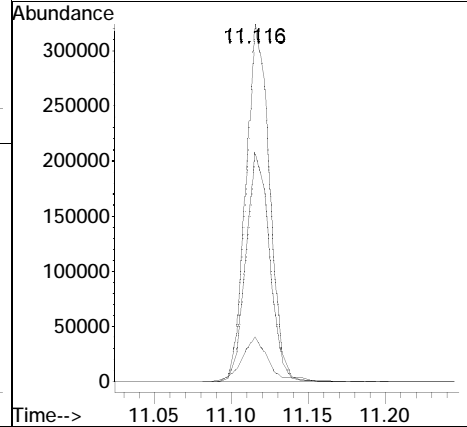
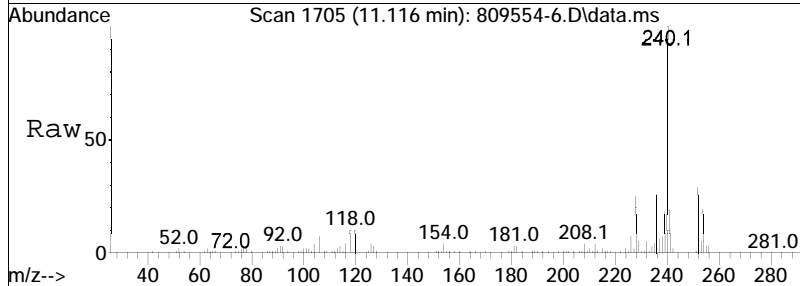
Tgt Ion	Ratio	Lower	Upper
149	100		
91	66.4	54.6	81.8
206	16.1	12.5	18.7

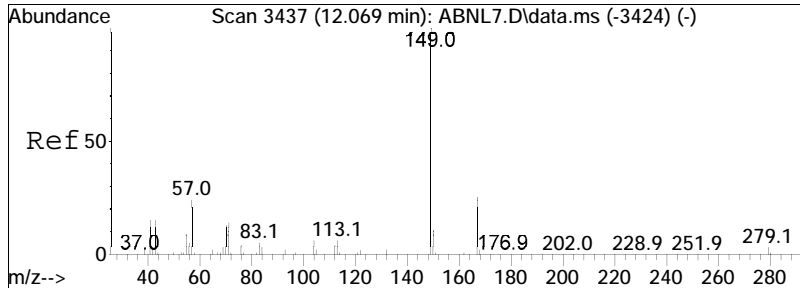




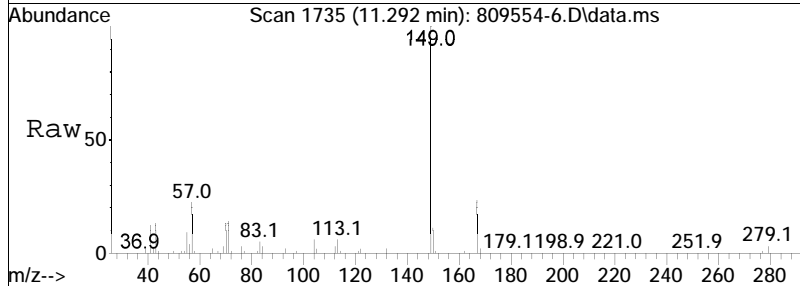
#106
 3,3'-Dichlorobenzidine
 Concen: 22.25 ug/ml
 RT: 11.116 min Scan# 1705
 Delta R.T. -0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

Tgt Ion	Ratio	Lower	Upper
252	100		
126	14.3	12.4	18.6
254	64.2	51.8	77.6

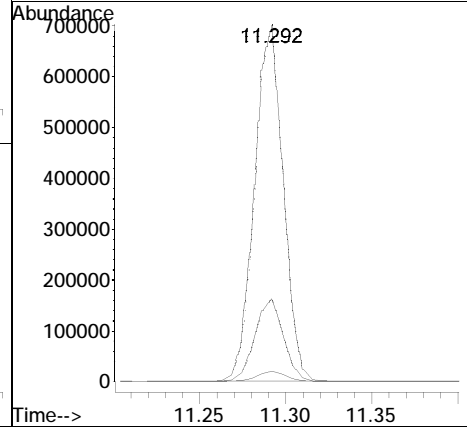
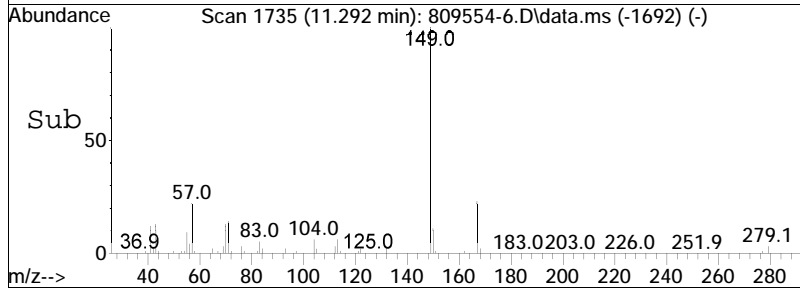


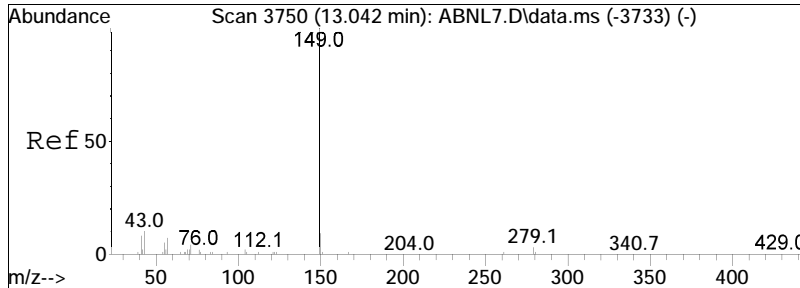


#108
 Bis(2-ethylhexyl)phthalate
 Concen: 26.58 ug/ml
 RT: 11.292 min Scan# 1735
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am



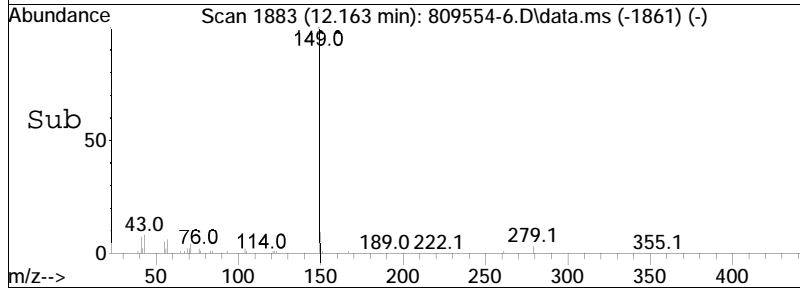
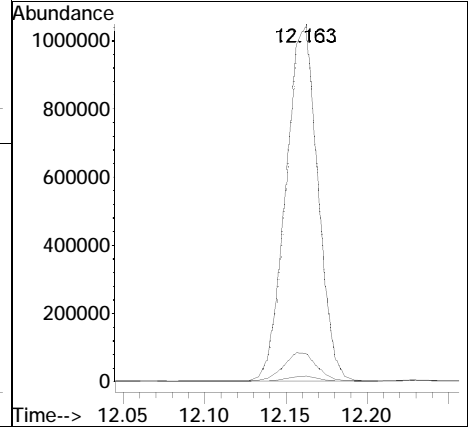
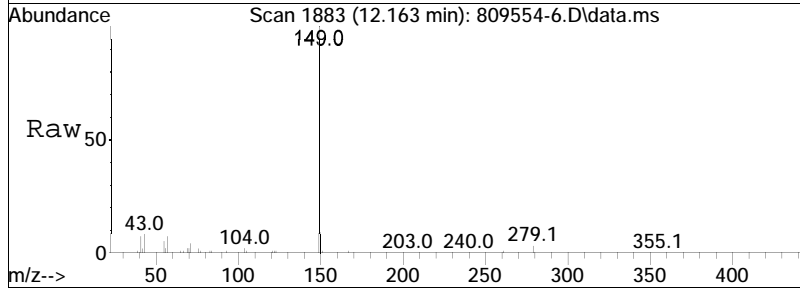
Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.1	19.0	28.6
279	2.7	2.0	3.0





#109
 Di-n-octylphthalate
 Concen: 26.47 ug/ml
 RT: 12.163 min Scan# 1883
 Delta R.T. 0.003 min
 Lab File: 809554-6.D
 Acq: 2 Aug 2023 6:44 am

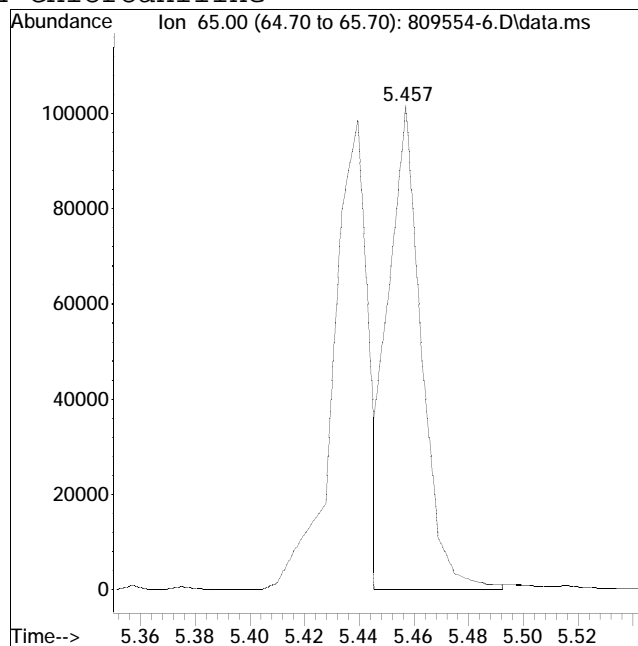
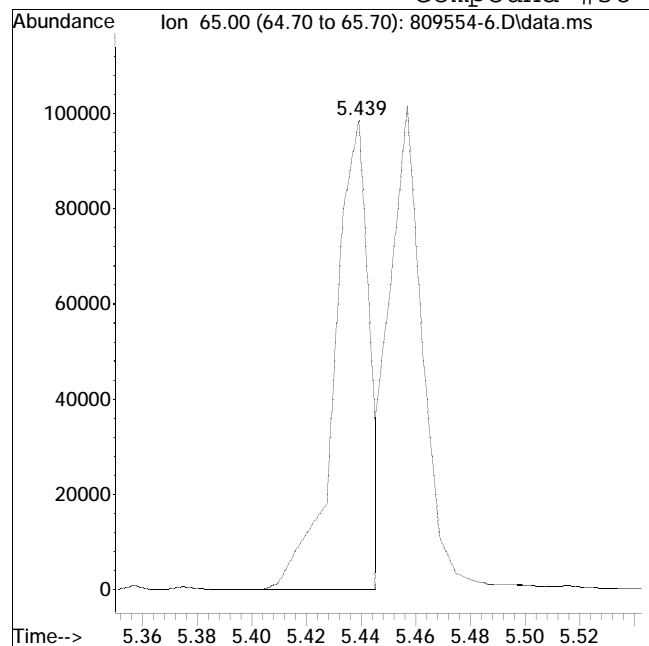
Tgt Ion	Ratio	Lower	Upper
149	100		
43	8.5	9.0	13.4#
167	1.4	1.1	1.7



Manual Integration Report

Data Path : I:\8270\SV109\230801n\ QMethod : FS230531SV109.m
Data File : 809554-6.D Operator : SV109:slr
Date Inj'd : 8/2/2023 6:44 am Instrument : SV109
Sample : WG1809554-6,32,,ASK Quant Date : 8/2/2023 7:03 am

Compound #38: 4-Chloroaniline



Original Peak Response = 89896

Manual Peak Response = 82747 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 809554-4.D
 Acq On : 2 Aug 2023 5:57 am
 Operator : SV109:slr
 Sample : WG1809554-4,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 08 11:06:34 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 06:16:48 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.098	152	263132	40.000	ug/ml	0.00
Standard Area 1 = 268648			Recovery =	97.95%		
27) IS2_1,4-Dichlorobenzen...	4.098	152	263132	40.000	ug/ml	0.00
Standard Area 3 = 292844			Recovery =	89.85%		
35) IS1_Naphthalene-d8	5.345	136	1070348	40.000	ug/ml	0.00
Standard Area 1 = 1035506			Recovery =	103.36%		
55) IS2_Naphthalene-d8	5.345	136	1070348	40.000	ug/ml	0.00
Standard Area 3 = 1138171			Recovery =	94.04%		
63) IS1_Acenaphthene-d10	7.045	164	602730	40.000	ug/ml	0.00
Standard Area 1 = 585086			Recovery =	103.02%		
83) IS2_Acenaphthene-d10	7.045	164	602730	40.000	ug/ml	0.00
Standard Area 3 = 646970			Recovery =	93.16%		
86) IS3_Acenaphthene-d10	7.045	164	602730	40.000	ug/ml	0.00
Standard Area 2 = 587706			Recovery =	102.56%		
88) IS1_Phenanthrene-d10	8.469	188	1276222	40.000	ug/ml	0.00
Standard Area 1 = 1270325			Recovery =	100.46%		
100) IS3_Phenanthrene-d10	8.469	188	1276222	40.000	ug/ml	0.00
Standard Area 2 = 1295083			Recovery =	98.54%		
104) IS1_Chrysene-d12	11.116	240	1140847	40.000	ug/ml	0.00
Standard Area 1 = 1162834			Recovery =	98.11%		
113) IS1_Perylene-d12	13.016	264	1213752	40.000	ug/ml	0.00
Standard Area 1 = 1262838			Recovery =	96.11%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.799	112	184151	26.116	ug/ml	0.00
Spiked Amount 50.000		Range 30 - 130	Recovery =	52.23%		
7) Phenol-d6	3.822	99	168319	17.726	ug/ml	0.00
Spiked Amount 50.000		Range 30 - 130	Recovery =	35.45%		
19) Nitrobenzene-d5	4.657	82	156102	16.348	ug/ml	0.00
Spiked Amount 25.000		Range 40 - 140	Recovery =	65.39%		
46) 2-Fluorobiphenyl	6.428	172	368697	17.256	ug/ml	0.00
Spiked Amount 25.000		Range 40 - 140	Recovery =	69.02%		
79) 2,4,6-Tribromophenol	7.810	330	131702	40.959	ug/ml	0.00
Spiked Amount 50.000		Range 30 - 130	Recovery =	81.92%		
96) 4-Terphenyl-d14	10.045	244	522631	16.640	ug/ml	0.00
Spiked Amount 25.000		Range 40 - 140	Recovery =	66.56%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 809554-4.D
 Acq On : 2 Aug 2023 5:57 am
 Operator : SV109:slr
 Sample : WG1809554-4,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 08 11:06:34 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 06:16:48 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							Qvalue
Target Compounds							
2) n-Nitrosodimethylamine	1.393	74	82417	16.984	ug/ml#		92
3) Pyridine	1.434	79	56950	7.296	ug/ml		82
5) Aniline	3.781	93	200864	15.926	ug/ml#		60
6) 2-Chlorophenol	3.898	128	229960	26.375	ug/ml		98
8) Phenol	3.834	94	153414	15.019	ug/ml#		63
9) Bis(2-chloroethyl)ether	3.875	93	206634	25.236	ug/ml		92
10) 1,3-Dichlorobenzene	4.040	146	211122	22.141	ug/ml		100
11) 1,4-Dichlorobenzene	4.116	146	220625	22.599	ug/ml		99
12) 1,2-Dichlorobenzene	4.263	146	217131	23.080	ug/ml		99
13) Benzyl alcohol	4.281	79	180021	24.715	ug/ml		96
14) Bis(2-chloroisopropyl)...	4.422	45	274465	25.363	ug/ml#		78
15) 2-Methylphenol	4.428	108	181825	24.150	ug/ml		98
17) n-Nitrosodi-n-propylamine	4.546	70	163512	24.523	ug/ml		99
18) 3-Methylphenol/4-Methy...	4.593	108	200885	25.434	ug/ml#		44
20) Nitrobenzene	4.675	77	274443	29.207	ug/ml		98
21) Isophorone	4.928	82	446589	24.617	ug/ml		99
22) 2-Nitrophenol	4.998	139	133461	28.501	ug/ml		96
23) 2,4-Dimethylphenol	5.098	107	132139	15.132	ug/ml		95
24) Bis(2-chloroethoxy)met...	5.175	93	278864	25.230	ug/ml#		97
25) 2,4-Dichlorophenol	5.251	162	215644	28.361	ug/ml		99
26) 1,2,4-Trichlorobenzene	5.310	180	207075	24.051	ug/ml		99
28) Benzaldehyde	3.657	105	179064	33.064	ug/ml		98
29) Acetophenone	4.522	105	345324	29.271	ug/ml		96
37) Benzoic Acid	5.216	105	110035M3	17.288	ug/ml		
38) 4-Chloroaniline	5.457	65	75589M3	21.897	ug/ml		
40) p-Chloro-m-cresol	5.981	107	230027	27.604	ug/ml		97
43) Hexachlorocyclopentadiene	6.222	237	61084	17.004	ug/ml		99
44) 2,4,6-Trichlorophenol	6.351	196	171495	29.516	ug/ml		100
45) 2,4,5-Trichlorophenol	6.392	196	188310	29.249	ug/ml		100
48) 2-Nitroaniline	6.640	138	159168	25.795	ug/ml		98
51) Dimethyl phthalate	6.845	163	603298	26.243	ug/ml		100
53) 2,6-Dinitrotoluene	6.892	165	132819	27.026	ug/ml#		78
60) Caprolactam	5.781	55	232211	58.308	ug/ml#		84
61) 1,2,4,5-Tetrachloroben...	6.222	216	244206	26.442	ug/ml		99
62) Biphenyl	6.516	154	615406	28.074	ug/ml		99
64) 3-Nitroaniline	7.039	138	89901	15.801	ug/ml#		94
66) 2,4-Dinitrophenol	7.163	184	71992	27.740	ug/ml		94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 809554-4.D
 Acq On : 2 Aug 2023 5:57 am
 Operator : SV109:slr
 Sample : WG1809554-4,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 08 11:06:34 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 06:16:48 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) Dibenzofuran	7.245	168	733829	26.363	ug/ml	99
68) 2,4-Dinitrotoluene	7.281	165	181836	28.054	ug/ml#	83
69) 4-Nitrophenol	7.269	65	77977	18.510	ug/ml	85
71) 2,3,4,6-Tetrachlorophenol	7.392	232	154143	27.288	ug/ml	99
72) Diethyl phthalate	7.534	149	657703	25.531	ug/ml	100
74) 4-Chlorophenyl phenyl ...	7.604	204	286585	26.329	ug/ml	97
75) 4-Nitroaniline	7.628	138	88665	15.914	ug/ml#	81
76) 4,6-Dinitro-o-cresol	7.681	198	105711	31.789	ug/ml#	89
77) NDPA/DPA	7.722	169	482672	24.950	ug/ml	98
78) Azobenzene	7.751	77	581404	25.015	ug/ml	97
80) 4-Bromophenyl phenyl e...	8.069	248	179181	26.575	ug/ml	98
85) Pentachloronitrobenzene	8.328	237	92162	29.697	ug/ml	95
87) Atrazine	8.275	200	166800	26.310	ug/ml	99
91) Carbazole	8.716	167	867466	26.485	ug/ml	99
92) Di-n-butylphthalate	9.122	149	1160058	26.143	ug/ml	99
94) Benzidine	0.000		0	N.D.		
97) Butyl benzyl phthalate	10.575	149	529468	26.139	ug/ml	98
102) Parathion	9.269	109	129096	34.271	ug/ml#	92
106) 3,3'-Dichlorobenzidine	11.116	252	199456	13.129	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	11.292	149	773505	25.983	ug/ml	99
109) Di-n-octylphthalate	12.163	149	1346329	25.645	ug/ml#	94

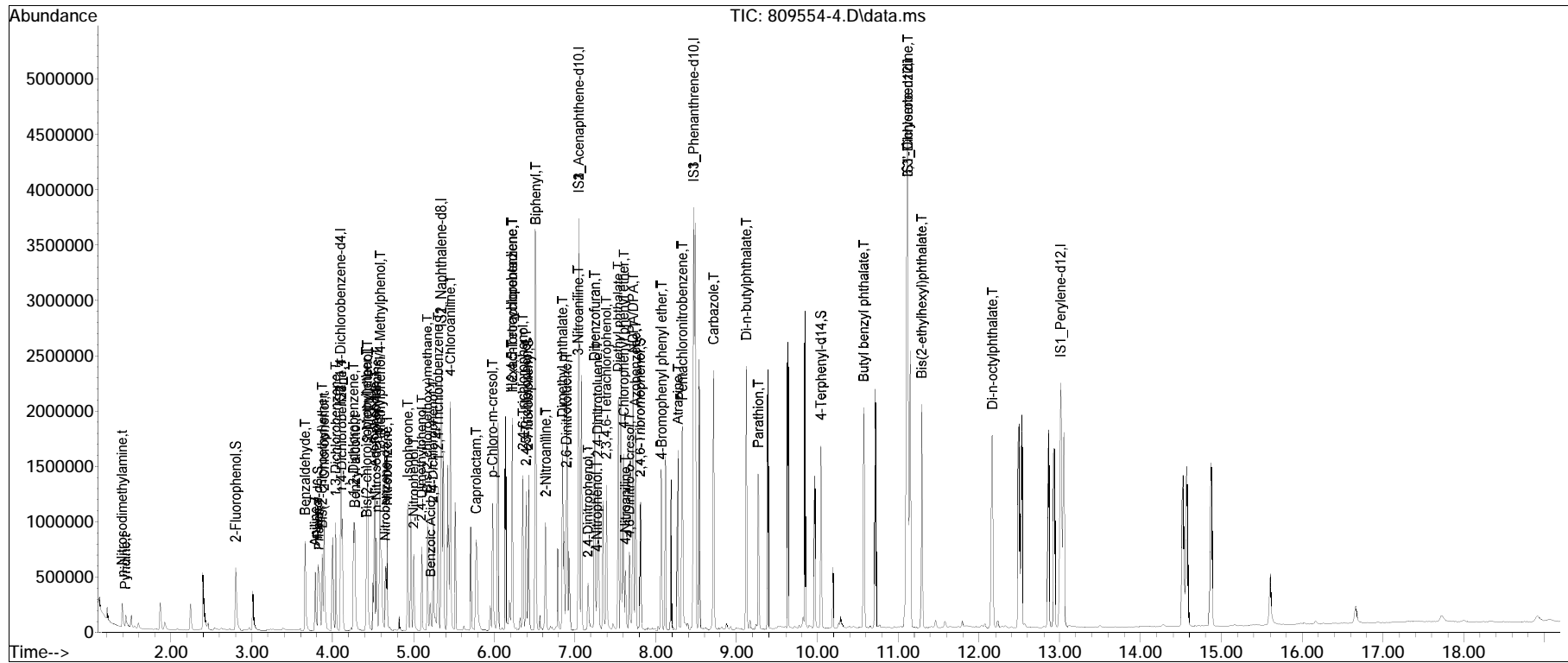
(#) = qualifier out of range (m) = manual integration (+) = signals summed

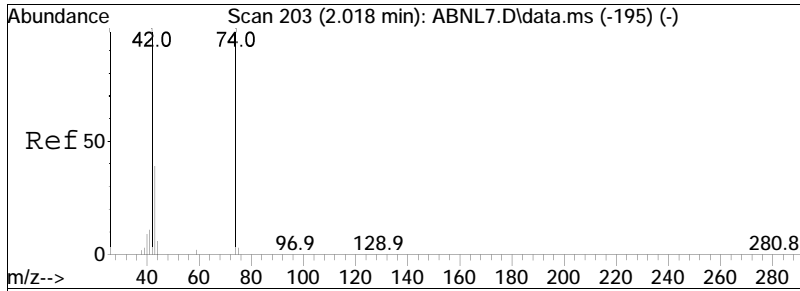
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 809554-4.D
 Acq On : 2 Aug 2023 5:57 am
 Operator : SV109:slr
 Sample : WG1809554-4,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 08 11:06:34 2023
 Quant Method : I:\8270\sv109\230801n\F230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 06:16:48 2023
 Response via : Initial Calibration

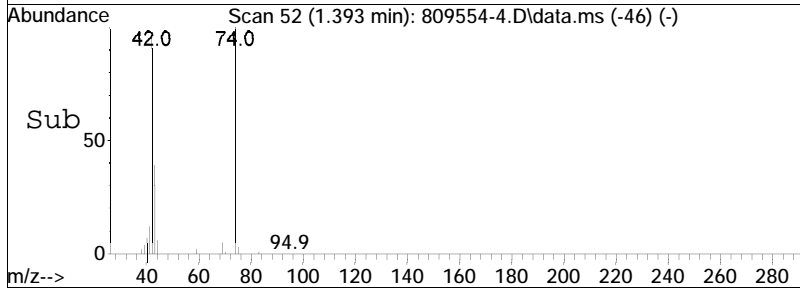
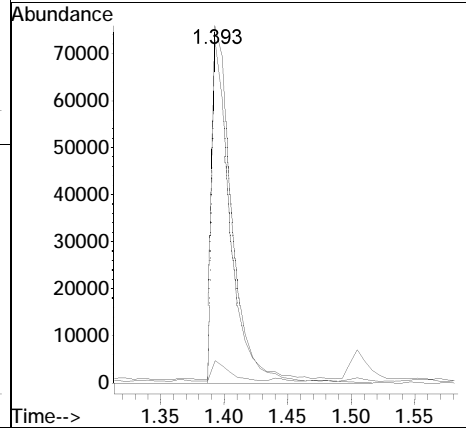
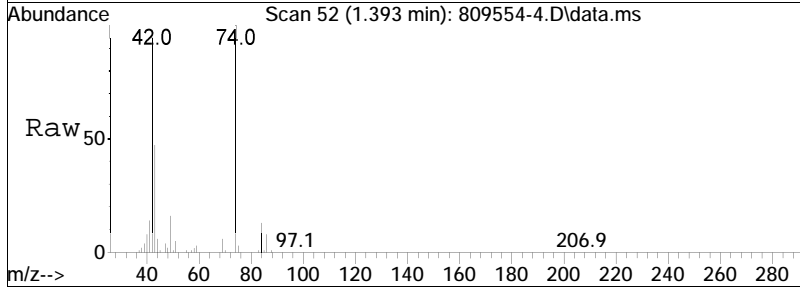
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA801n.D•

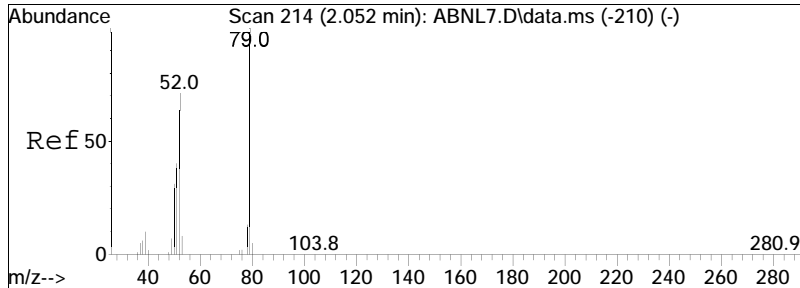




#2
 n-Nitrosodimethylamine
 Concen: 16.98 ug/ml
 RT: 1.393 min Scan# 52
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

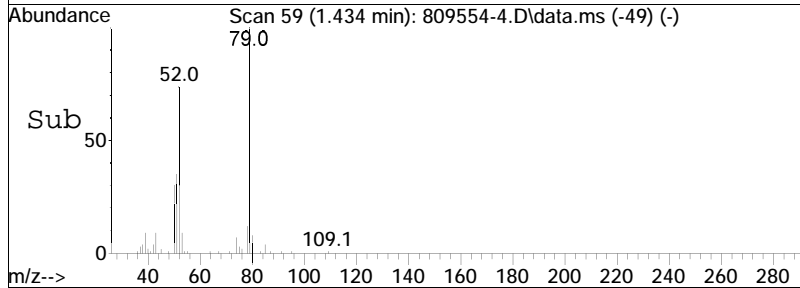
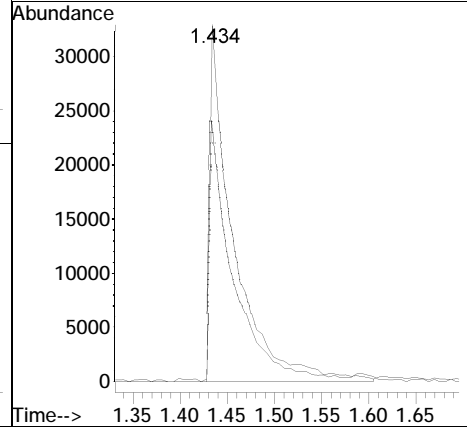
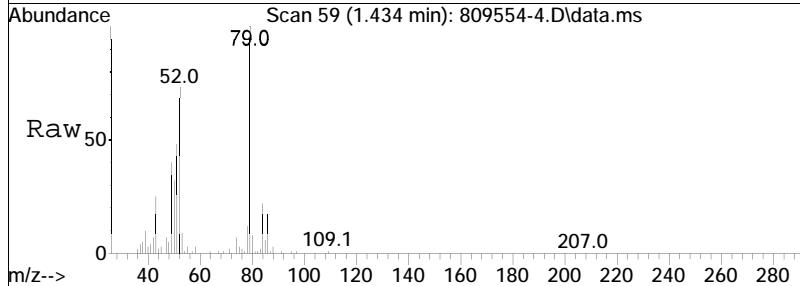
Tgt Ion	74	42	44	Ratio	100	86.4	4.8	Lower	75.7	5.7	Upper	113.5	8.5#
Resp:	82417												

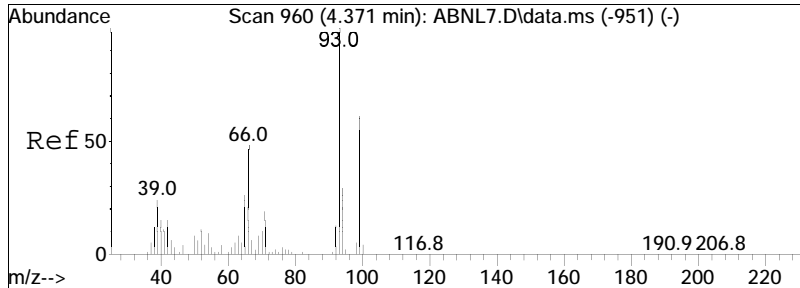




#3
 Pyridine
 Concen: 7.30 ug/ml
 RT: 1.434 min Scan# 59
 Delta R.T. 0.021 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

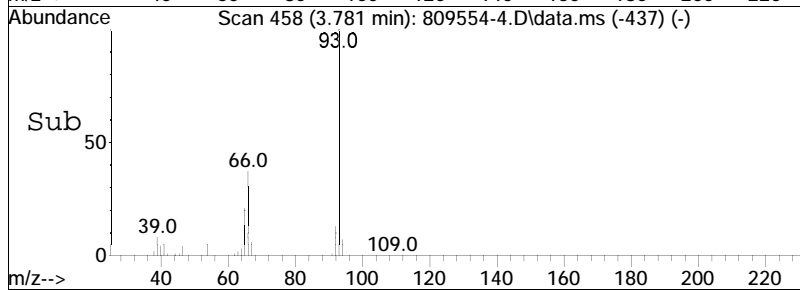
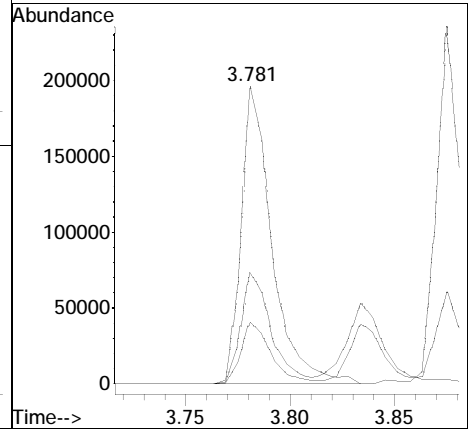
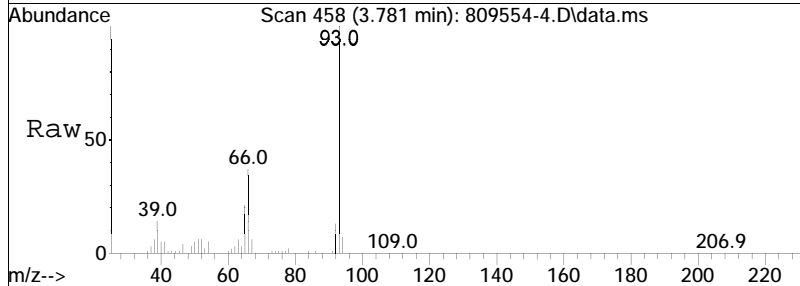
Tgt Ion: 79 Resp: 56950
 Ion Ratio Lower Upper
 79 100
 52 72.7 71.8 107.8

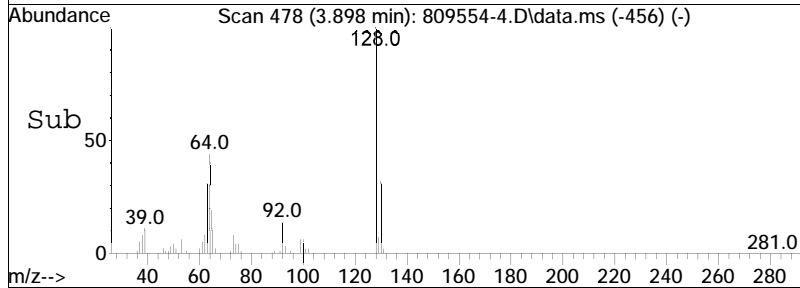
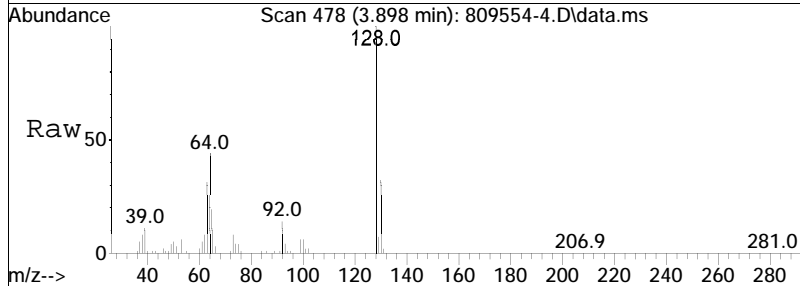
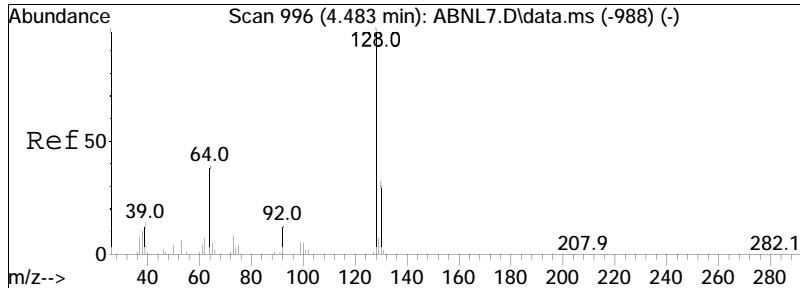




#5
 Aniline
 Concen: 15.93 ug/ml
 RT: 3.781 min Scan# 458
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

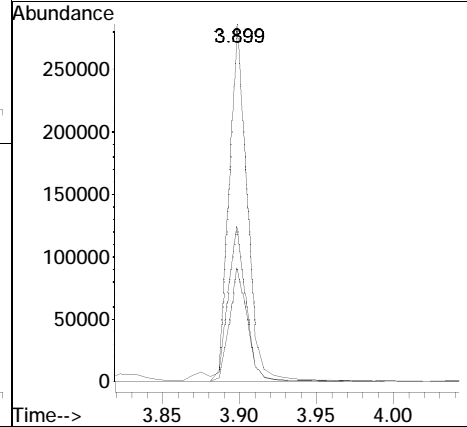
Tgt Ion	Resp	Lower	Upper
93	100		
66	36.9	57.0	85.4#
65	20.7	36.2	54.2#

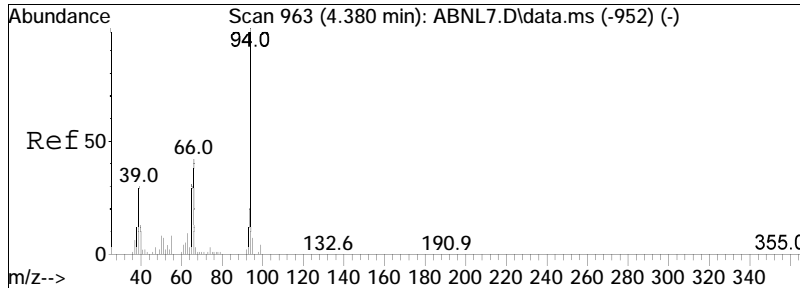




#6
 2-Chlorophenol
 Concen: 26.38 ug/ml
 RT: 3.898 min Scan# 478
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

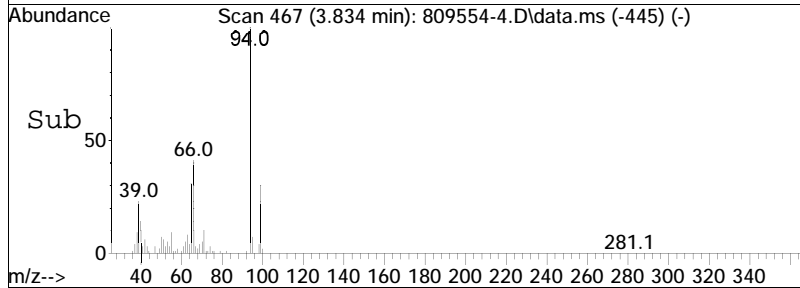
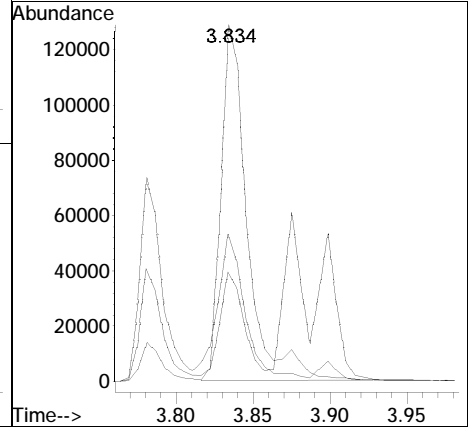
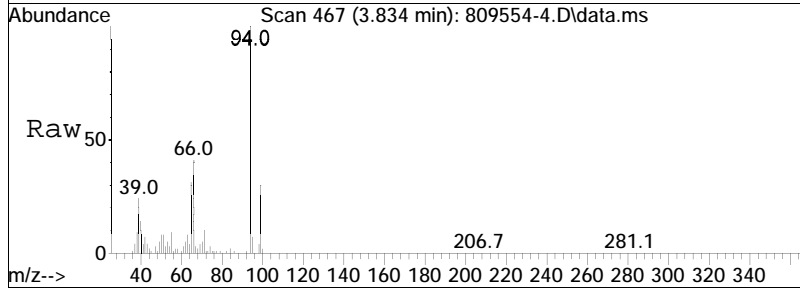
Tgt Ion	Resp	Lower	Upper
128	229960		
64	45.4	38.1	57.1
130	32.2	25.7	38.5

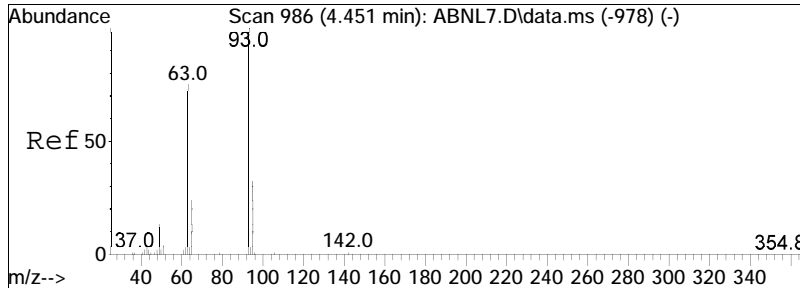




#8
 Phenol
 Concen: 15.02 ug/ml
 RT: 3.834 min Scan# 467
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

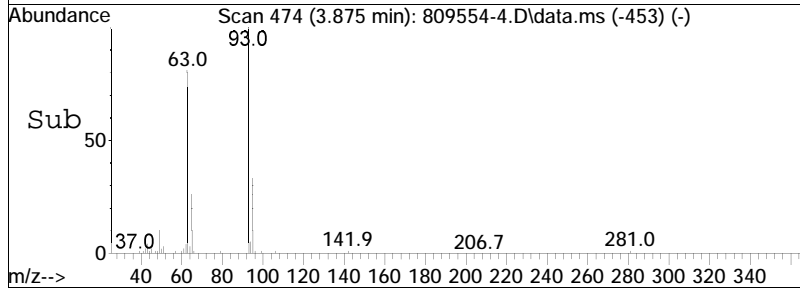
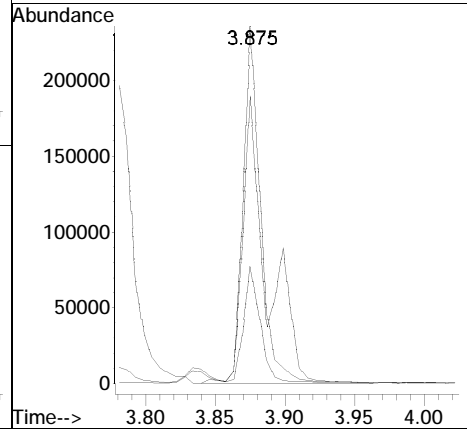
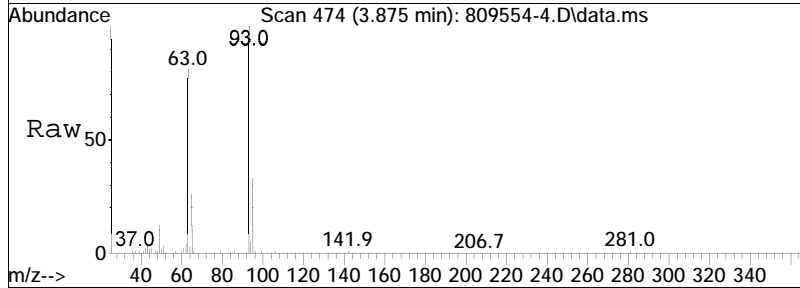
Tgt Ion:	94	Resp:	153414
Ion Ratio	Lower	Upper	
94	100		
65	28.6	40.7	61.1#
66	44.3	64.1	96.1#

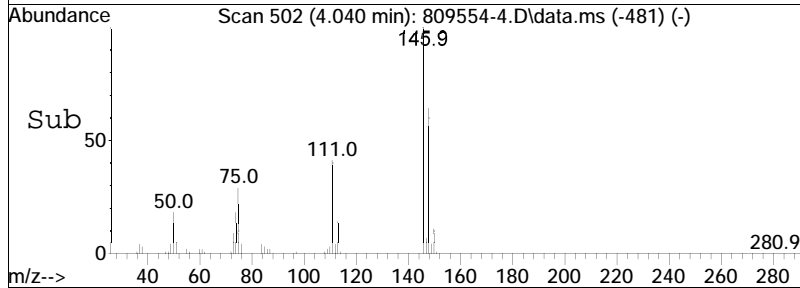
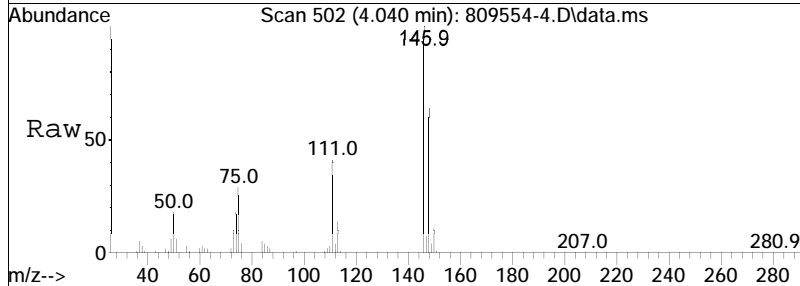
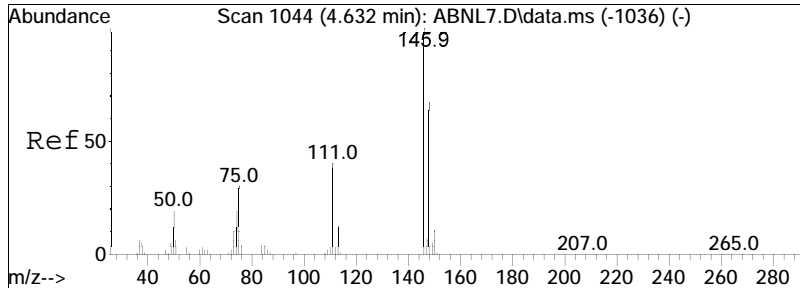




#9
 Bis(2-chloroethyl)ether
 Concen: 25.24 ug/ml
 RT: 3.875 min Scan# 474
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

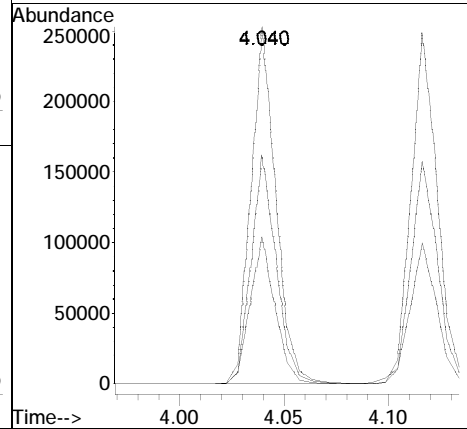
Tgt Ion:	93	Resp:	206634
Ion Ratio	Lower	Upper	
93	100		
63	82.7	73.7	110.5
95	31.1	26.9	40.3

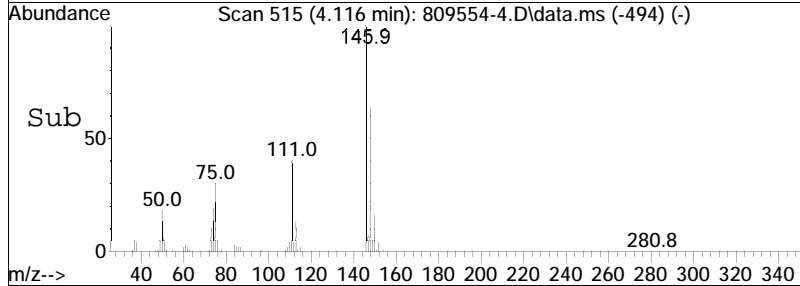
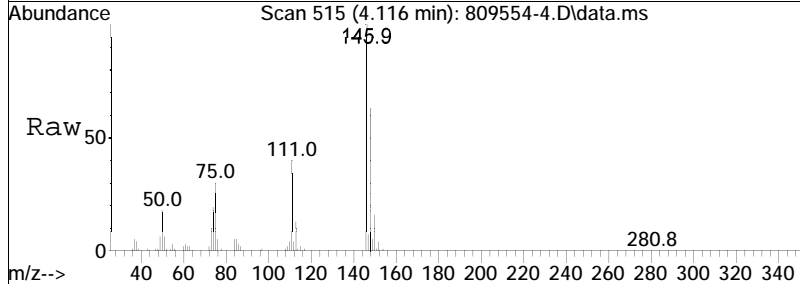
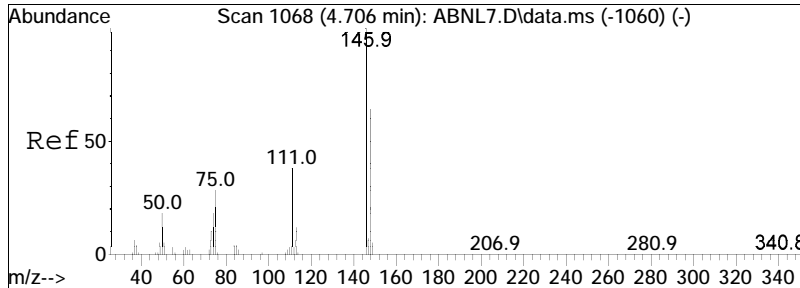




#10
 1,3-Dichlorobenzene
 Concen: 22.14 ug/ml
 RT: 4.040 min Scan# 502
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

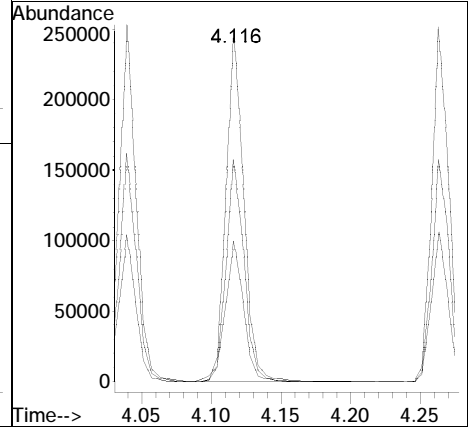
Tgt Ion	Resp	Lower	Upper
146	100		
111	41.2	33.0	49.4
148	64.2	51.0	76.6

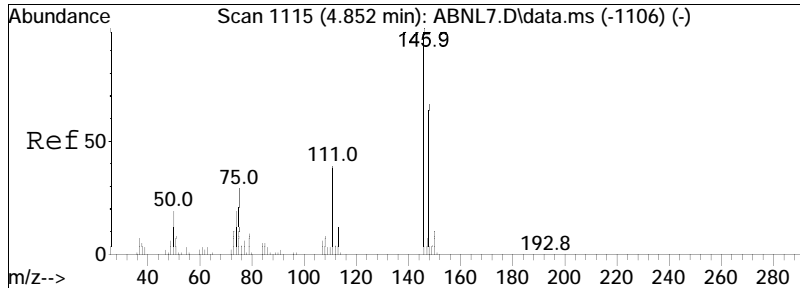




#11
 1,4-Dichlorobenzene
 Concen: 22.60 ug/ml
 RT: 4.116 min Scan# 515
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

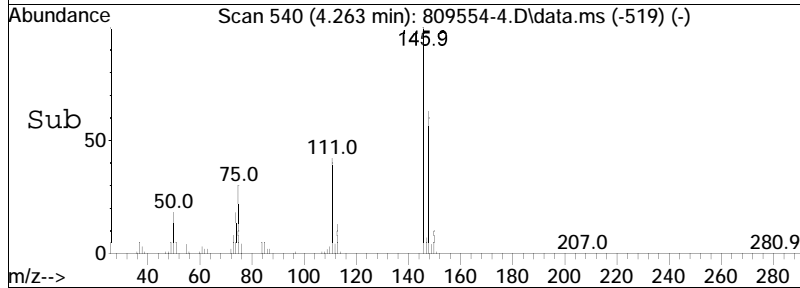
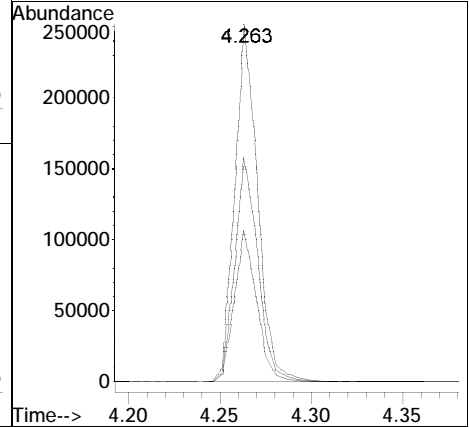
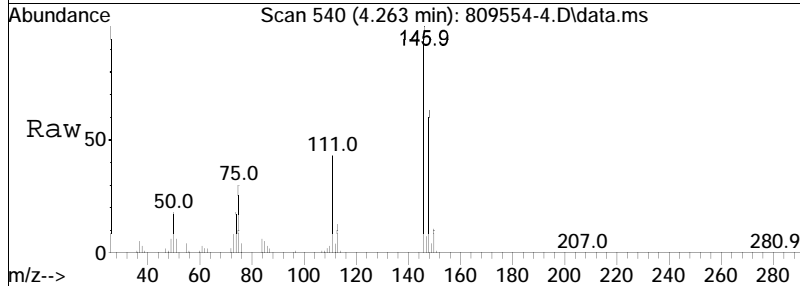
Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.4	77.0
111	41.8	31.8	47.8

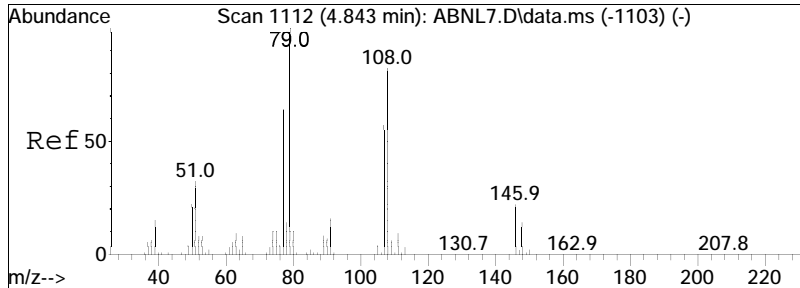




#12
 1,2-Dichlorobenzene
 Concen: 23.08 ug/ml
 RT: 4.263 min Scan# 540
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

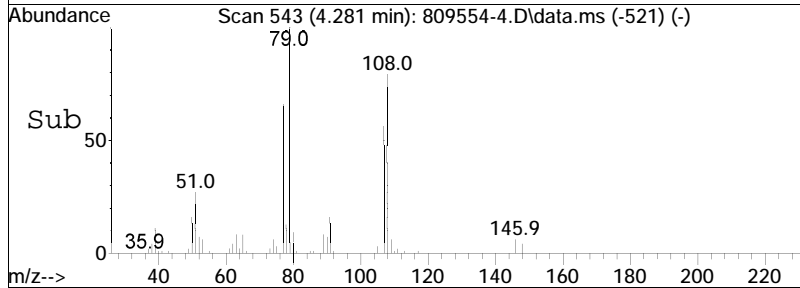
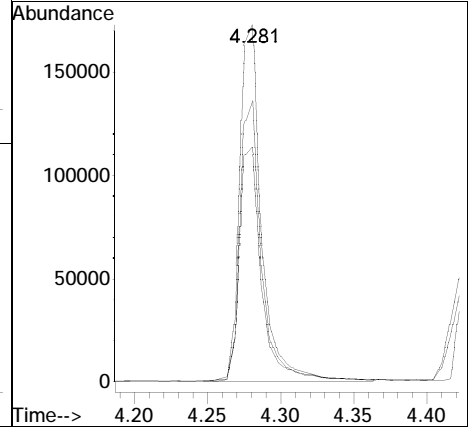
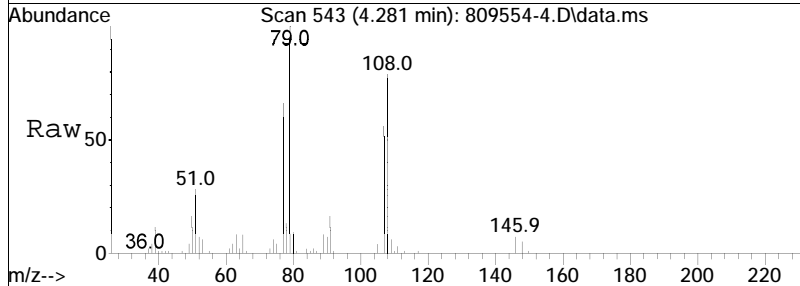
Tgt Ion	Resp	Lower	Upper
146	100		
111	41.6	32.8	49.2
148	63.4	51.4	77.2

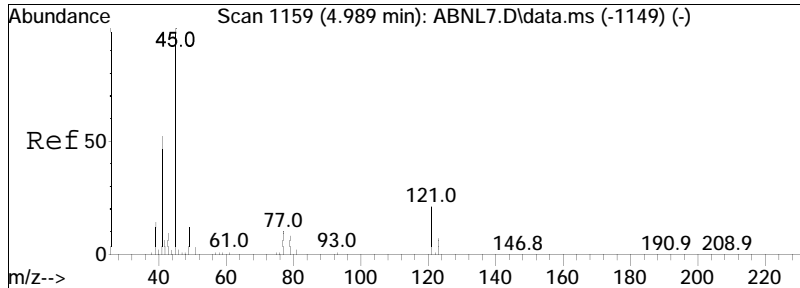




#13
 Benzyl alcohol
 Concen: 24.72 ug/ml
 RT: 4.281 min Scan# 543
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

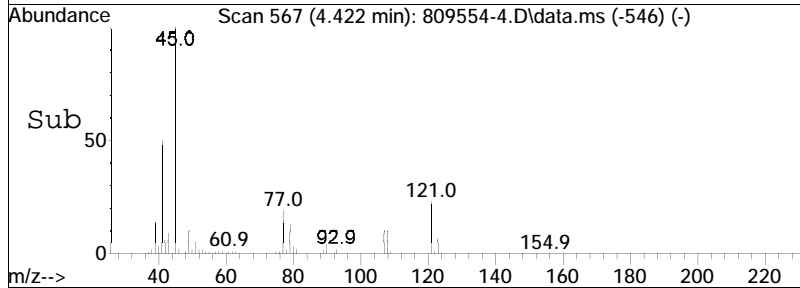
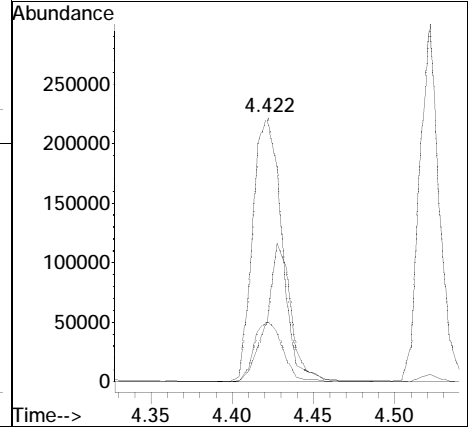
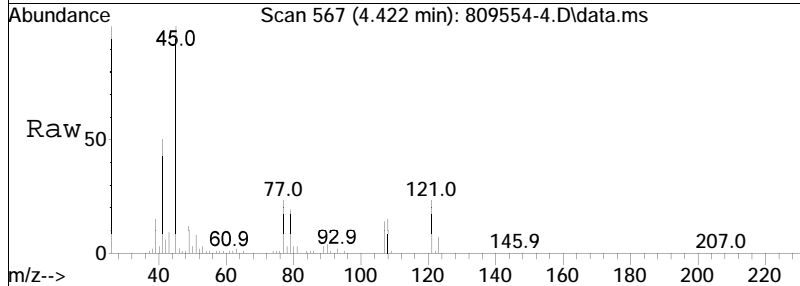
Tgt Ion	Resp	Lower	Upper
79	100		
77	66.9	52.4	78.6
108	78.3	66.7	100.1

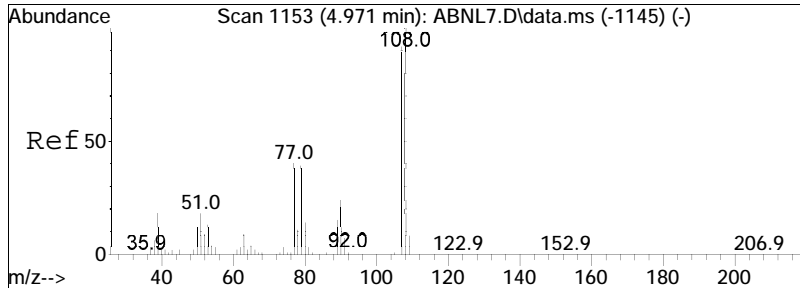




#14
 Bis(2-chloroisopropyl) ether
 Concen: 25.36 ug/ml
 RT: 4.422 min Scan# 567
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

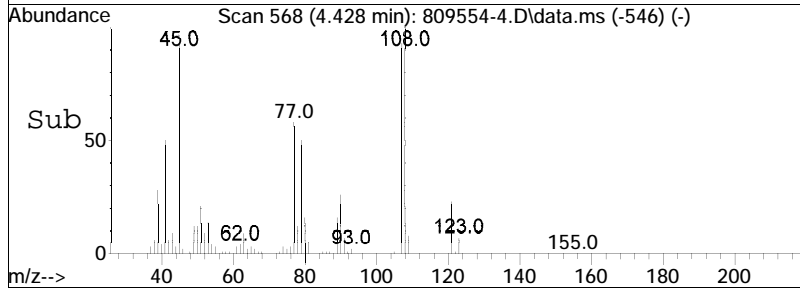
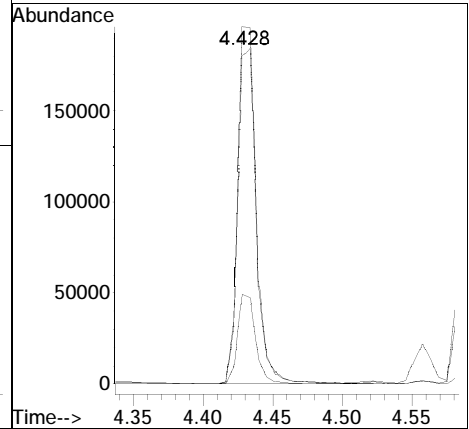
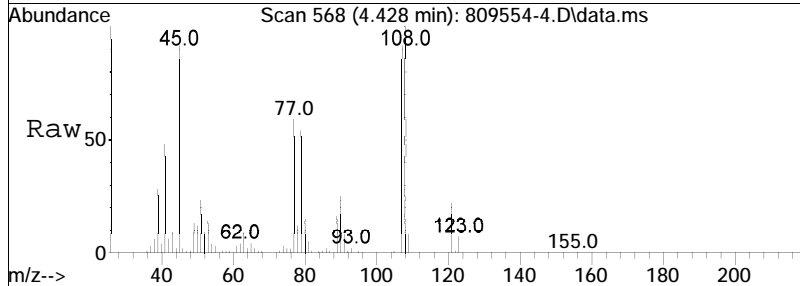
Tgt Ion	Resp	Lower	Upper
45	100		
121	22.8	12.6	19.0#
77	44.6	24.6	37.0#

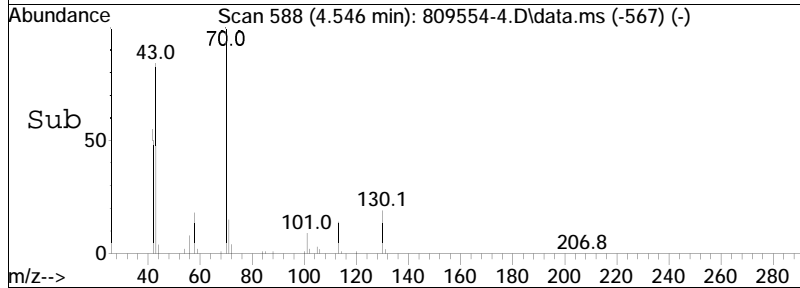
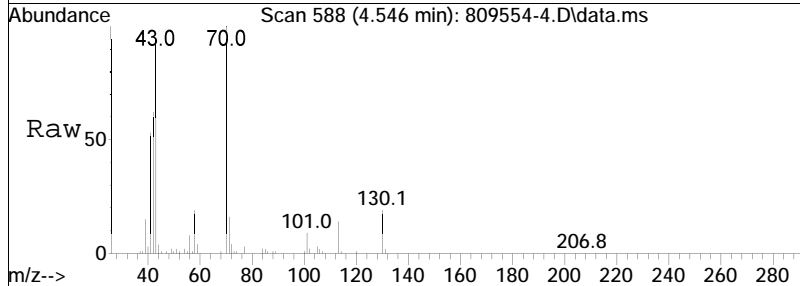
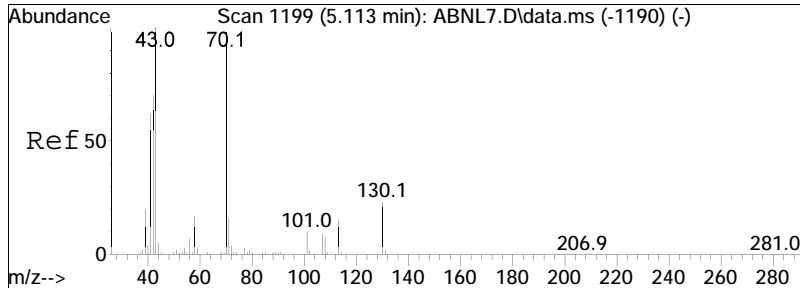




#15
 2-Methylphenol
 Concen: 24.15 ug/ml
 RT: 4.428 min Scan# 568
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

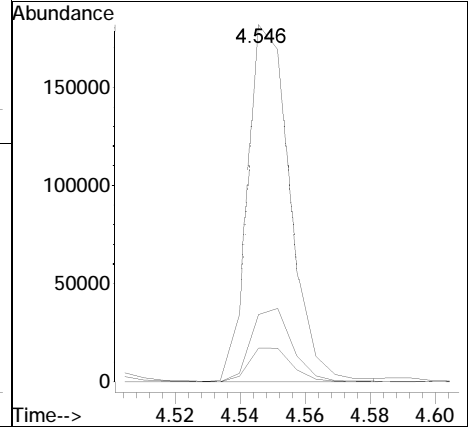
Tgt Ion	Resp	Lower	Upper
108	181825		
107	92.8	72.6	108.8
90	24.7	19.2	28.8

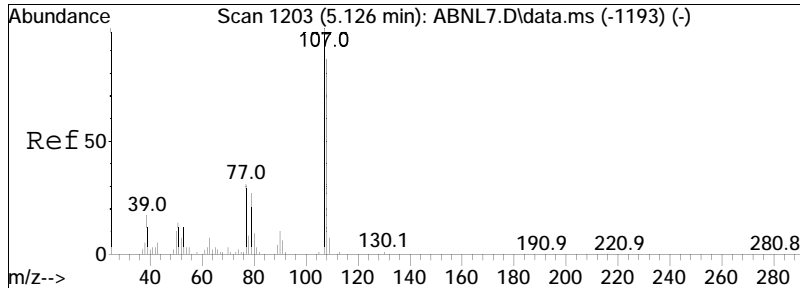




#17
 n-Nitrosodi-n-propylamine
 Concen: 24.52 ug/ml
 RT: 4.546 min Scan# 588
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

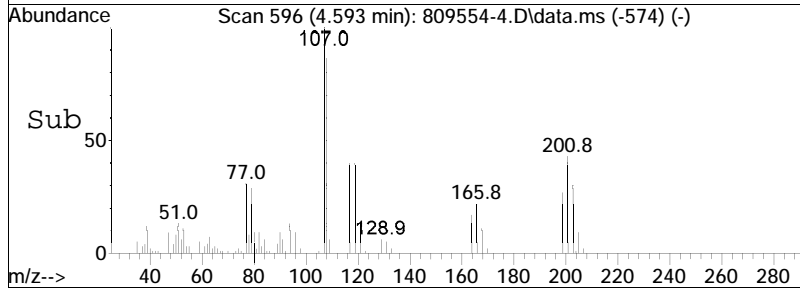
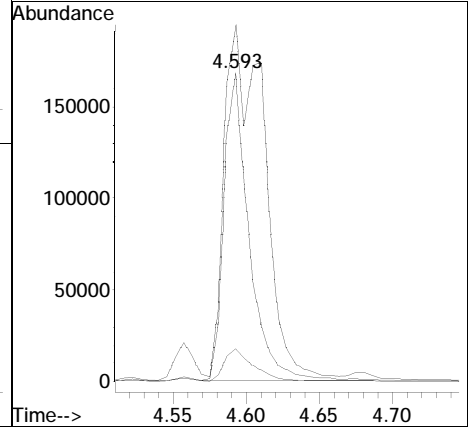
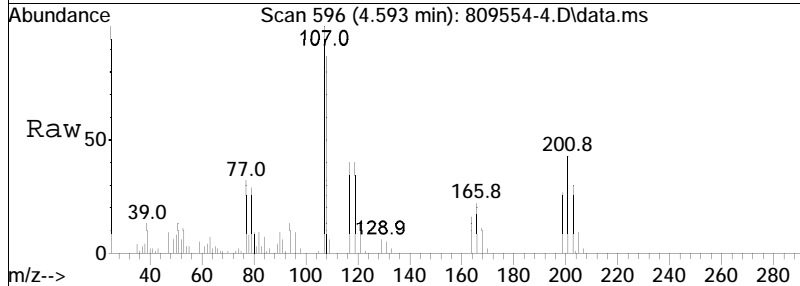
Tgt Ion:	Resp:	Lower	Upper
70	163512		
130	20.2	16.6	24.8
101	9.7	7.4	11.0

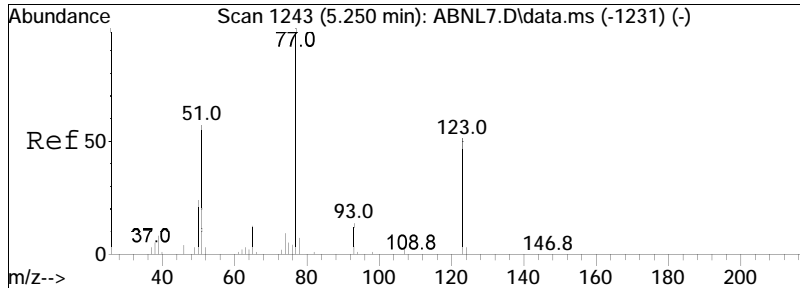




#18
 3-Methylphenol/4-Methylphenol
 Concen: 25.43 ug/ml
 RT: 4.593 min Scan# 596
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

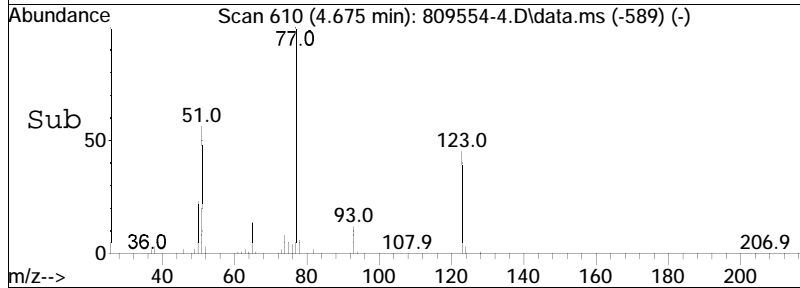
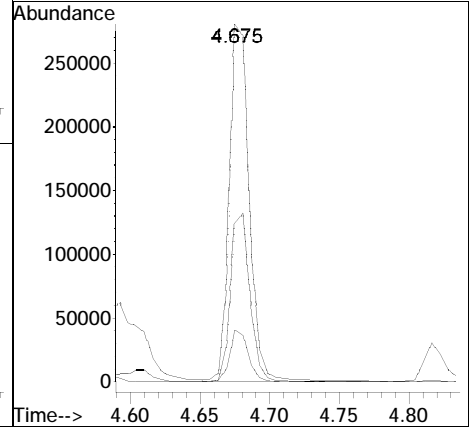
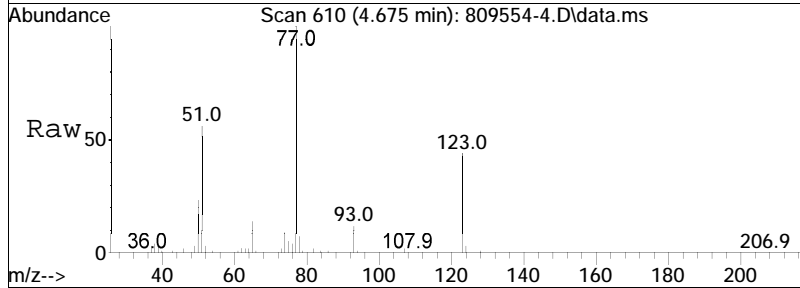
Tgt Ion	Resp	Lower	Upper
108	200885		
107	179.8	91.0	136.6#
90	12.4	8.7	13.1

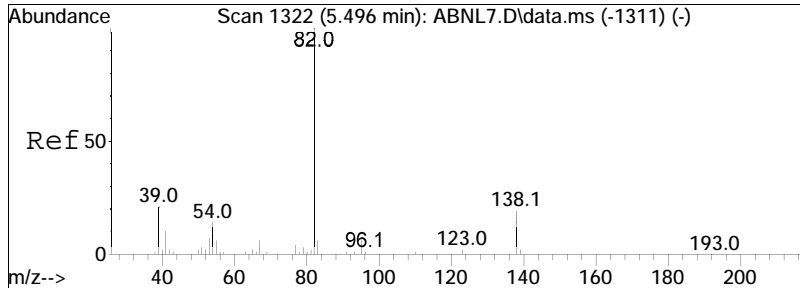




#20
 Nitrobenzene
 Concen: 29.21 ug/ml
 RT: 4.675 min Scan# 610
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

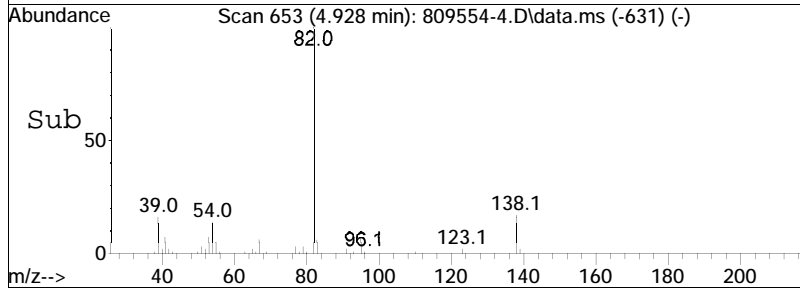
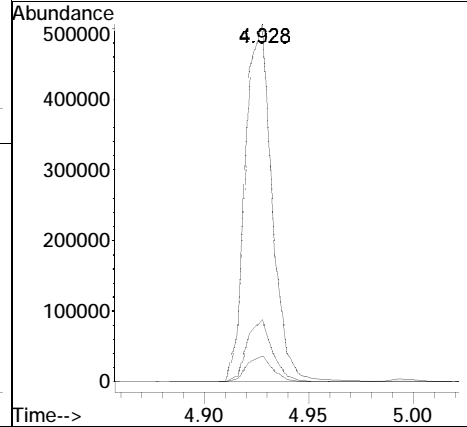
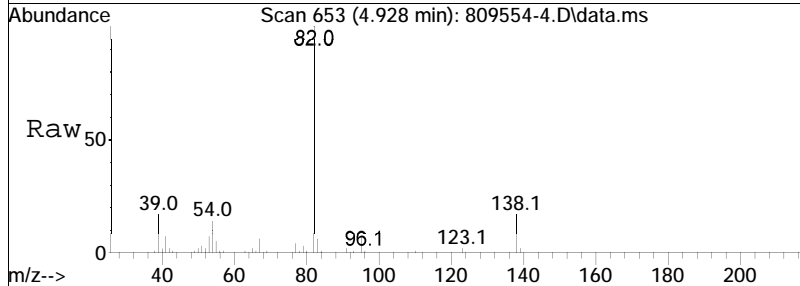
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
77	100		
123	46.8	38.5	57.7
65	14.0	11.4	17.0

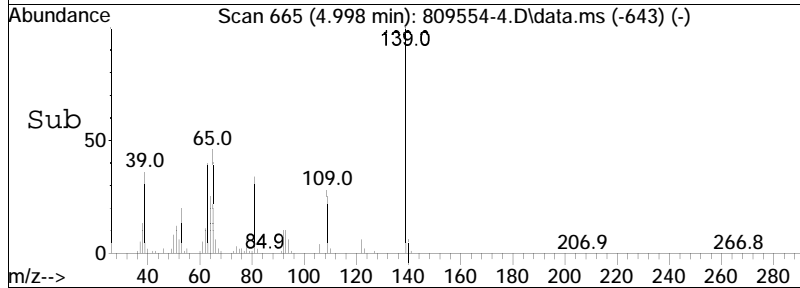
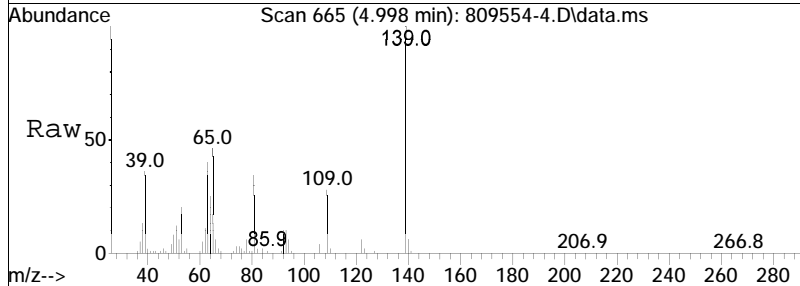
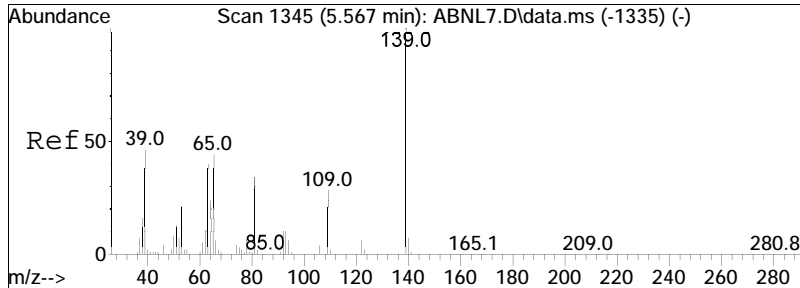




#21
 Isophorone
 Concen: 24.62 ug/ml
 RT: 4.928 min Scan# 653
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

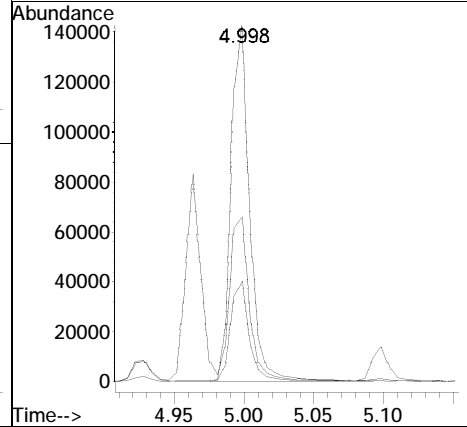
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
82	100		
138	16.8	13.6	20.4
95	7.2	5.1	7.7

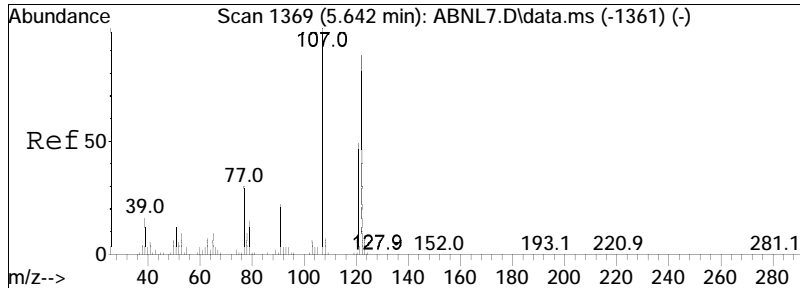




#22
 2-Nitrophenol
 Concen: 28.50 ug/ml
 RT: 4.998 min Scan# 665
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

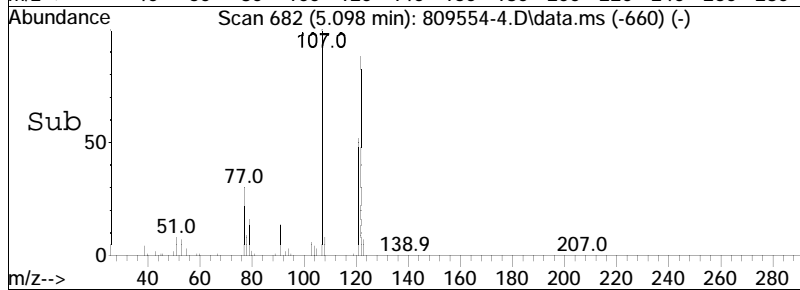
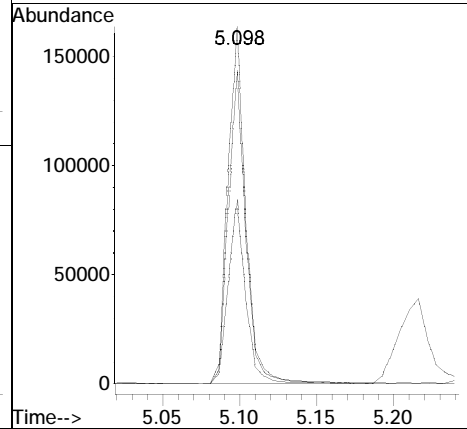
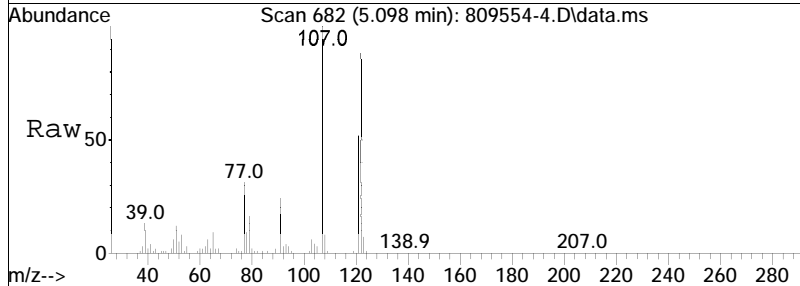
Tgt Ion	Resp	Lower	Upper
139	100		
109	28.6	19.8	29.6
65	48.6	39.6	59.4

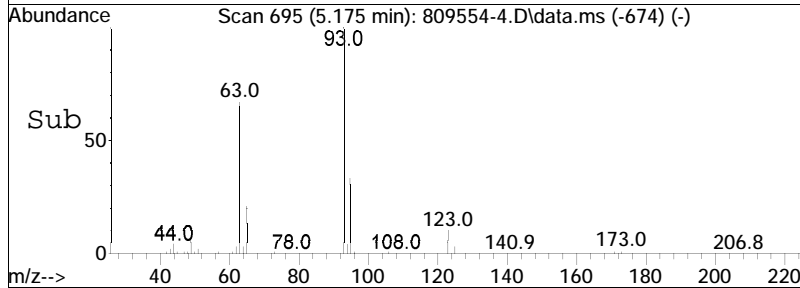
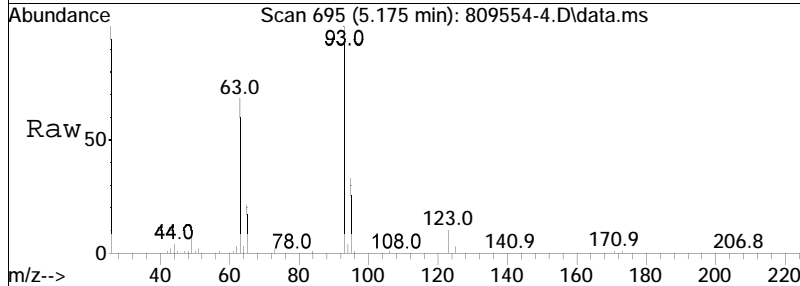
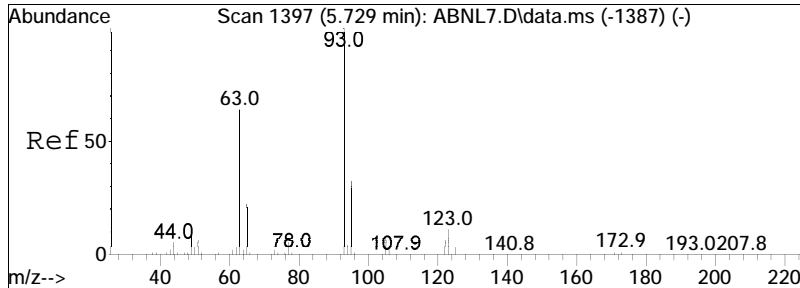




#23
 2,4-Dimethylphenol
 Concen: 15.13 ug/ml
 RT: 5.098 min Scan# 682
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

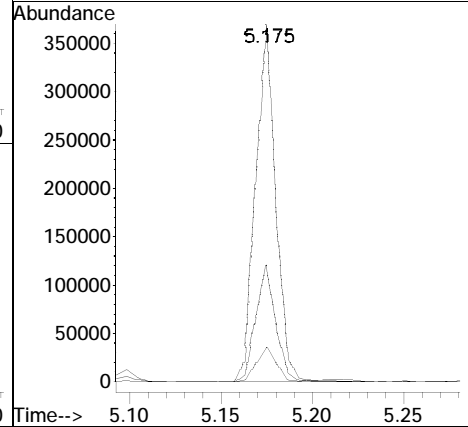
Tgt Ion	Resp	Lower	Upper
107	132139		
121	49.6	43.0	64.4
122	85.7	71.8	107.8

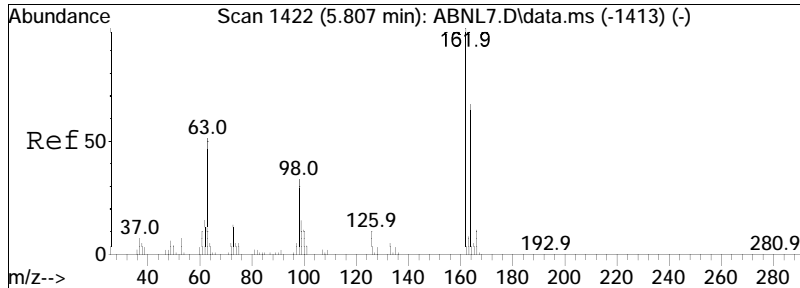




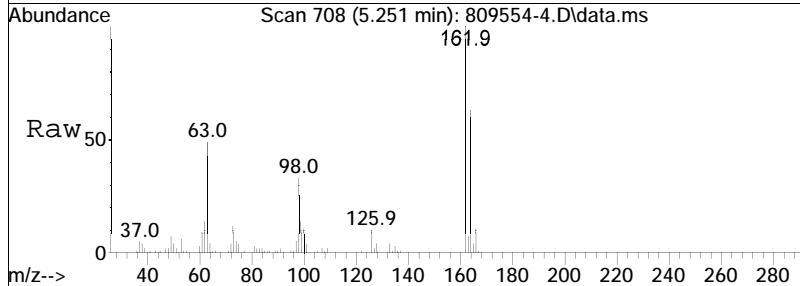
#24
 Bis(2-chloroethoxy)methane
 Concen: 25.23 ug/ml
 RT: 5.175 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

Tgt Ion	Resp	Lower	Upper
93	100		
95	32.8	26.6	40.0
123	9.8	11.0	16.4#

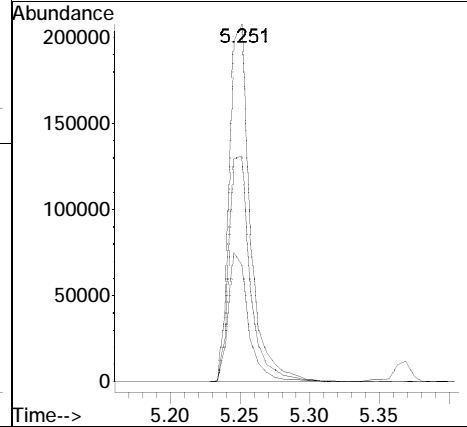
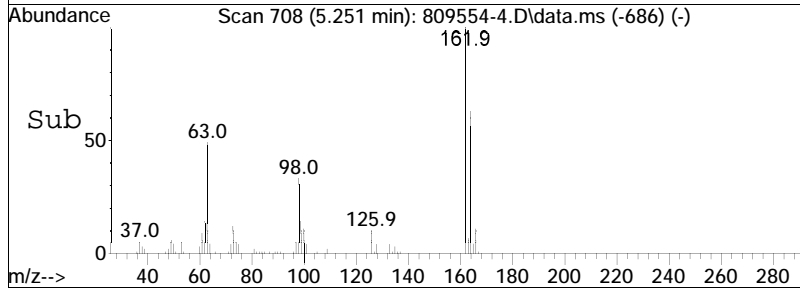


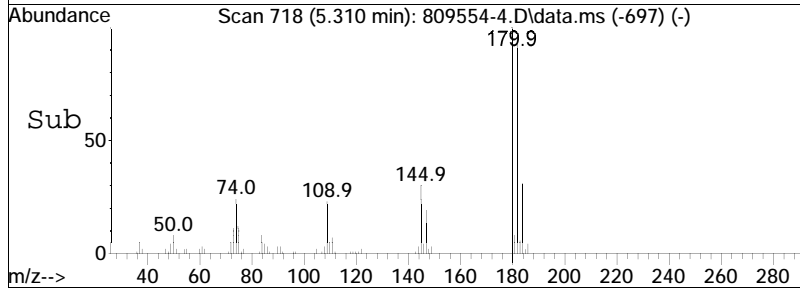
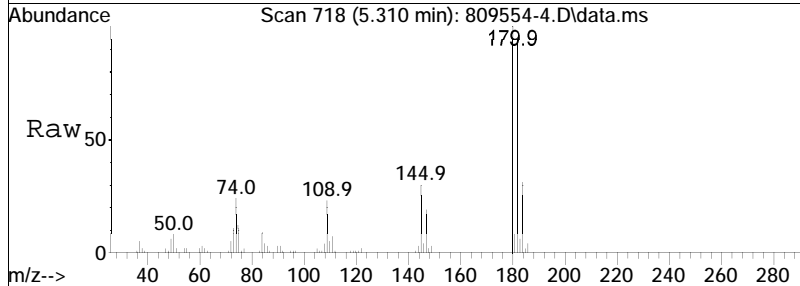
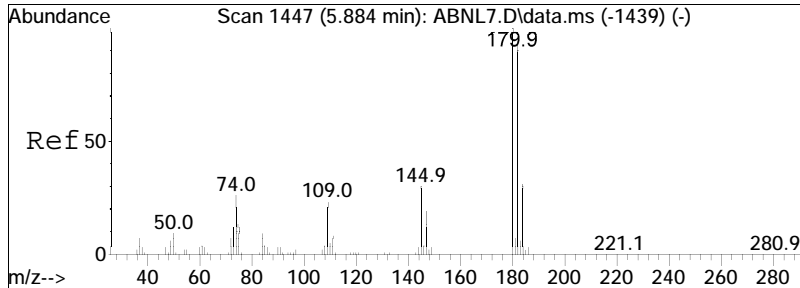


#25
 2,4-Dichlorophenol
 Concen: 28.36 ug/ml
 RT: 5.251 min Scan# 708
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am



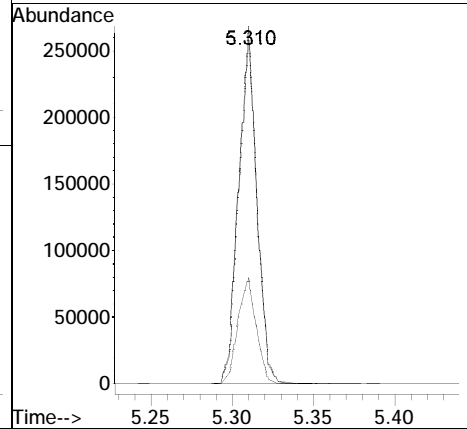
Tgt Ion	Ratio	Lower	Upper
162	100		
164	64.2	51.6	77.4
98	35.5	29.4	44.2

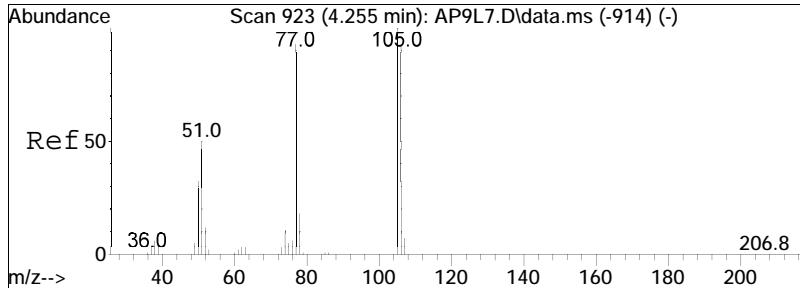




#26
 1,2,4-Trichlorobenzene
 Concen: 24.05 ug/ml
 RT: 5.310 min Scan# 718
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

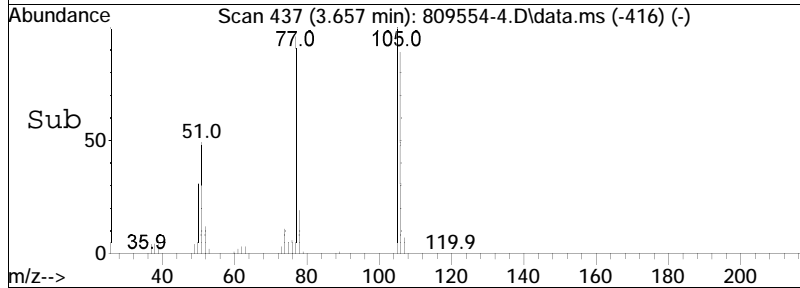
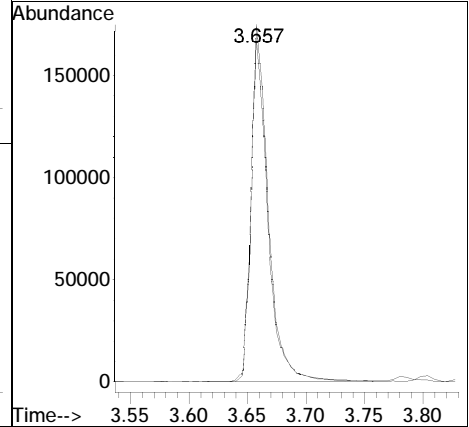
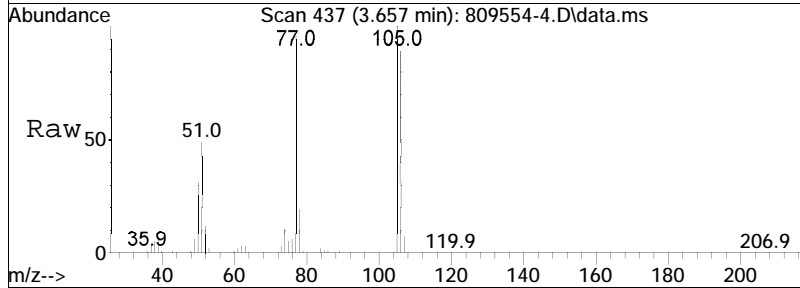
Tgt Ion	Resp	Lower	Upper
180	100		
182	95.4	77.0	115.6
145	30.0	25.2	37.8

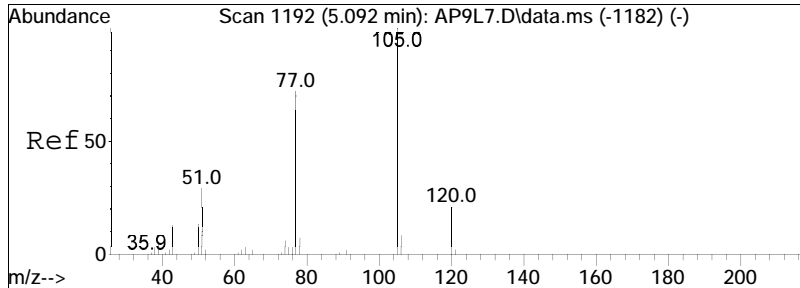




#28
 Benzaldehyde
 Concen: 33.06 ug/ml
 RT: 3.657 min Scan# 437
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

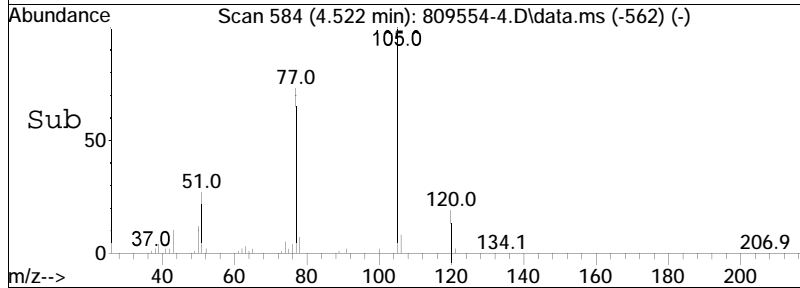
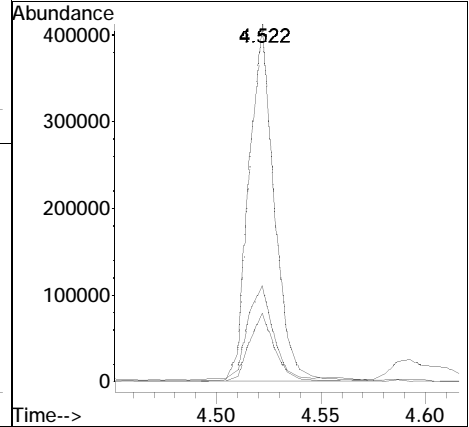
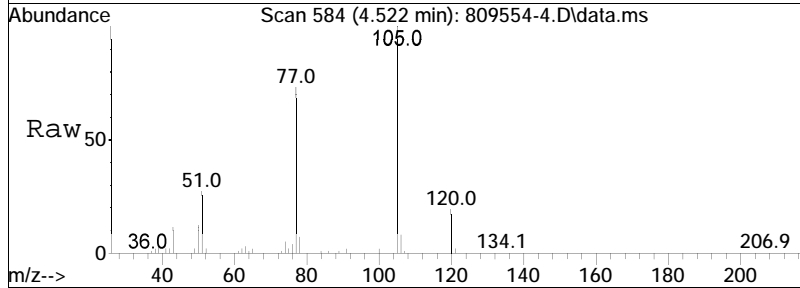
Tgt Ion	Ratio	Lower	Upper
105	100		
77	94.5	76.9	115.3

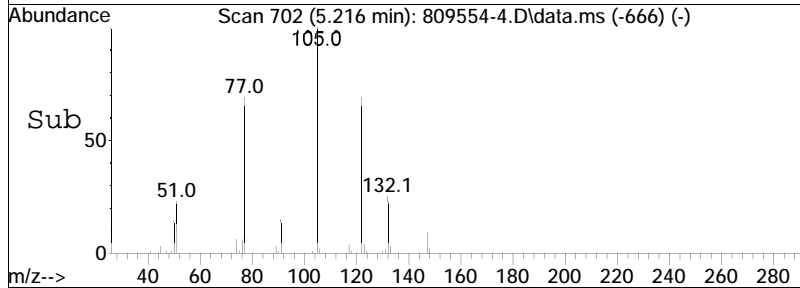
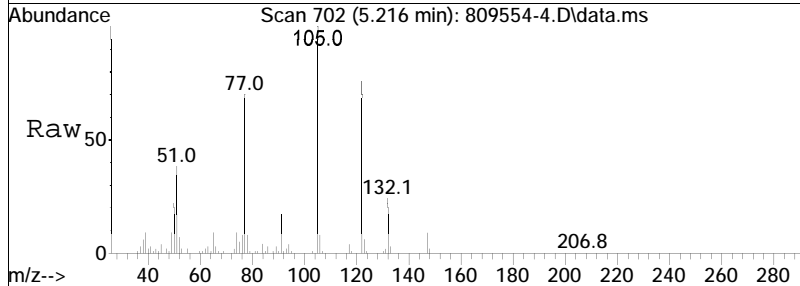
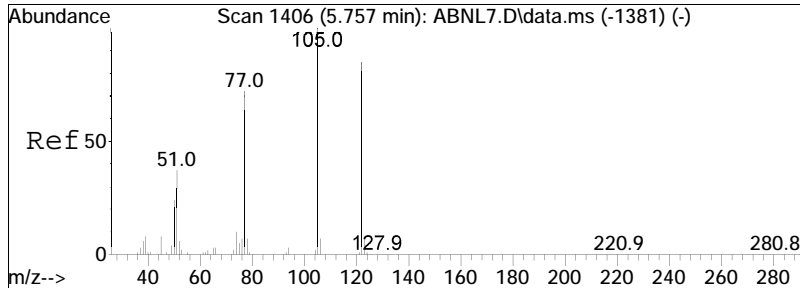




#29
 Acetophenone
 Concen: 29.27 ug/ml
 RT: 4.522 min Scan# 584
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

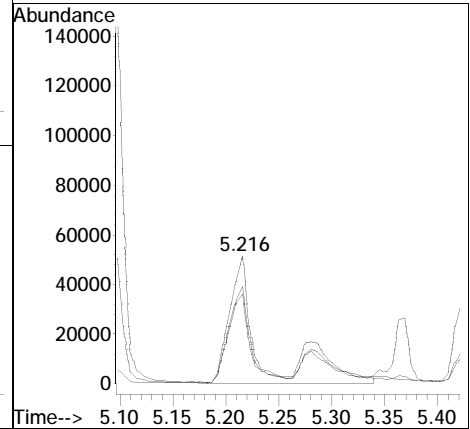
Tgt Ion	Ratio	Lower	Upper
105	100		
120	19.3	15.9	23.9
51	28.1	25.2	37.8

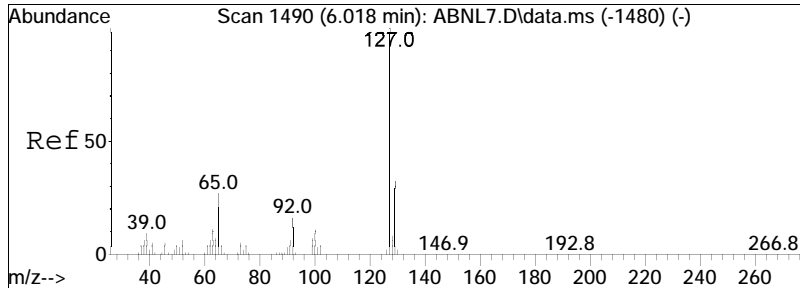




#37
 Benzoic Acid
 Concen: 17.29 ug/ml M3
 RT: 5.216 min Scan# 702
 Delta R.T. -0.038 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

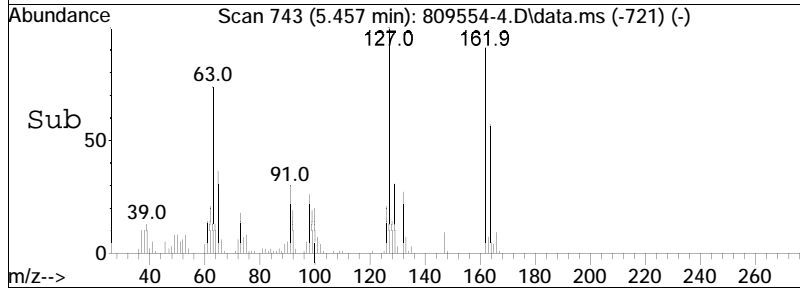
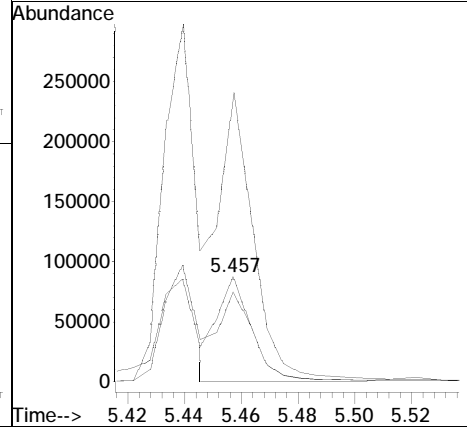
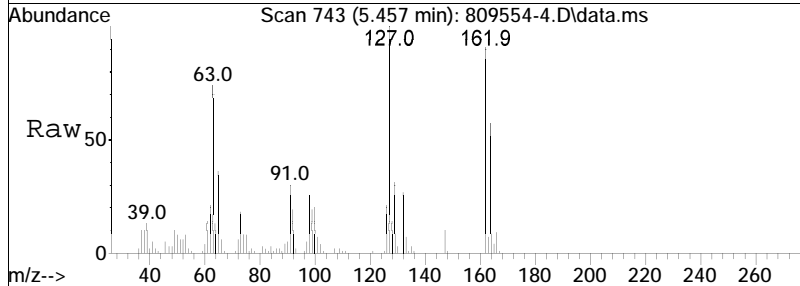
Tgt Ion	Resp	Lower	Upper
105	110035		
122	28.3	67.0	100.4#
77	23.3	58.8	88.2#

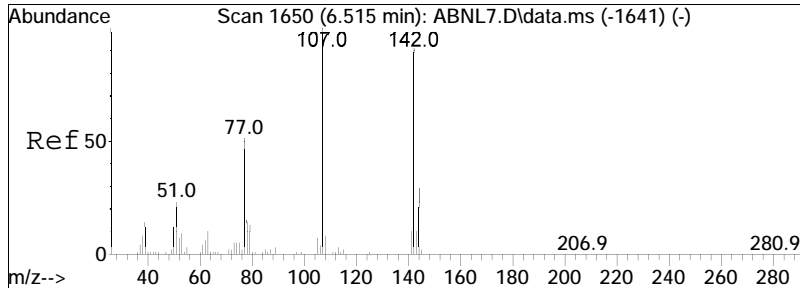




#38
 4-Chloroaniline
 Concen: 21.90 ug/ml M3
 RT: 5.457 min Scan# 743
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

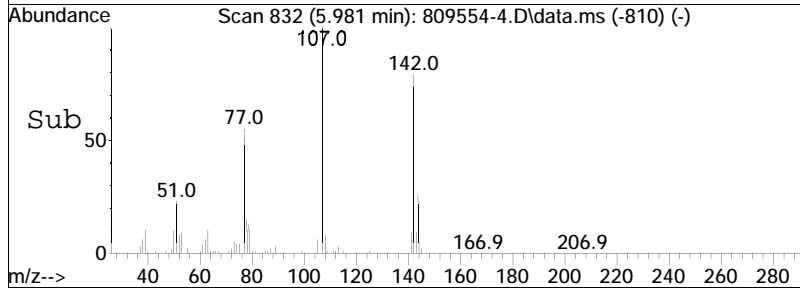
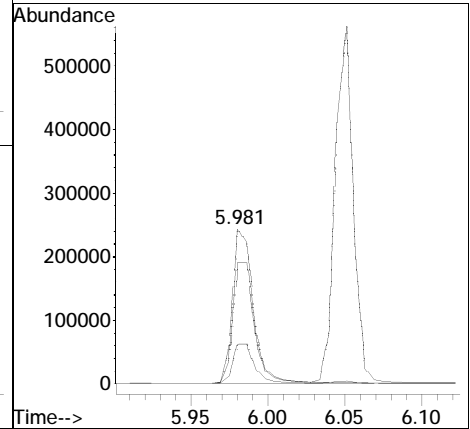
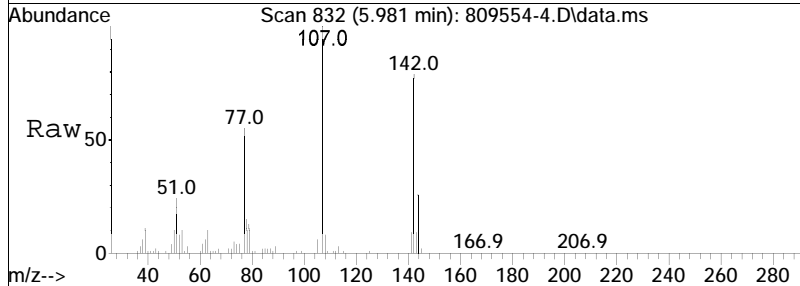
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
65	100		
127	364.6	274.4	411.6
129	117.1	88.2	132.4

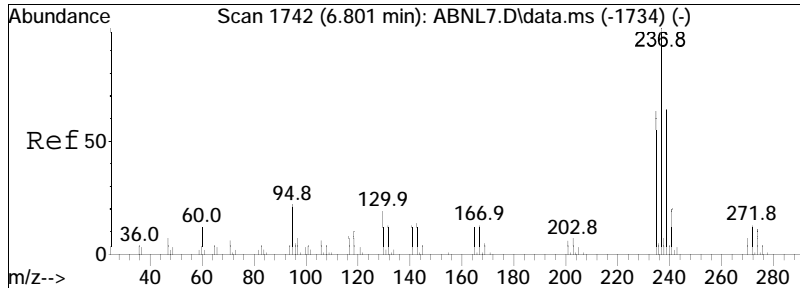




#40
 p-Chloro-m-cresol
 Concen: 27.60 ug/ml
 RT: 5.981 min Scan# 832
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

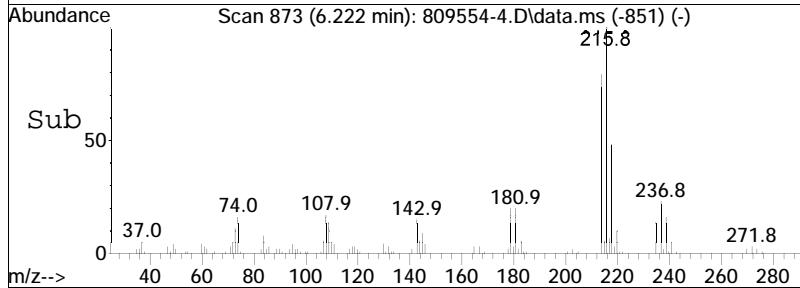
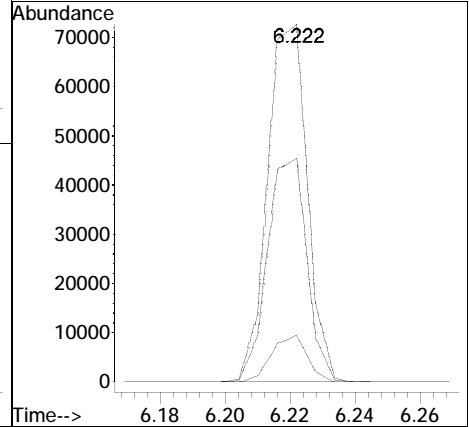
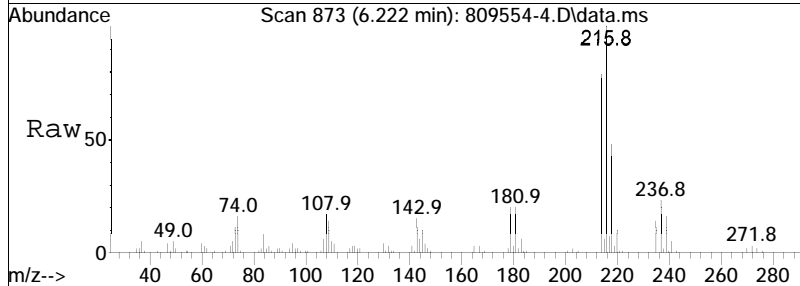
Tgt Ion	Resp	Lower	Upper
107	230027		
144	26.5	21.5	32.3
142	80.6	66.8	100.2

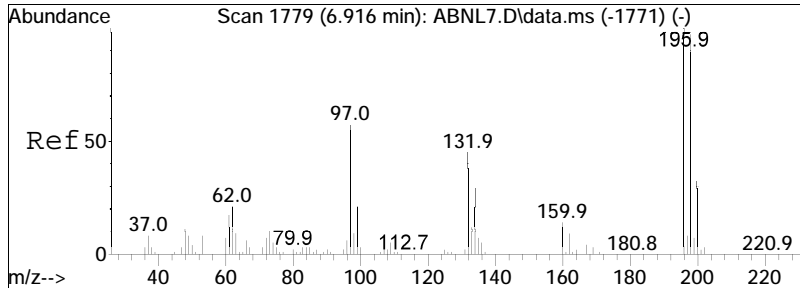




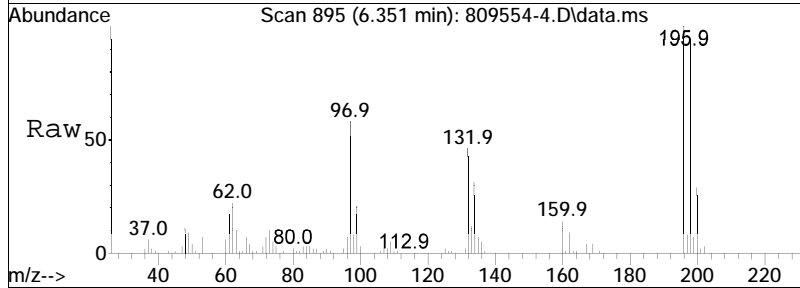
#43
 Hexachlorocyclopentadiene
 Concen: 17.00 ug/ml
 RT: 6.222 min Scan# 873
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

Tgt Ion	Resp	Lower	Upper
237	100		
235	62.4	49.5	74.3
272	11.9	10.2	15.4

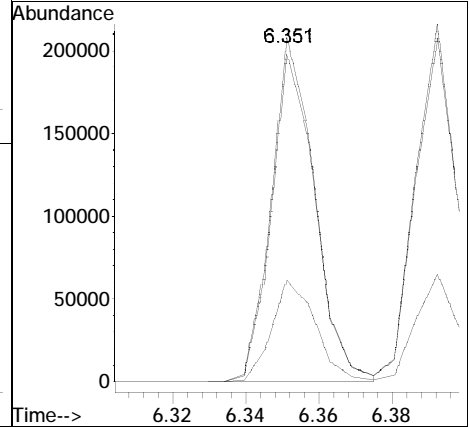
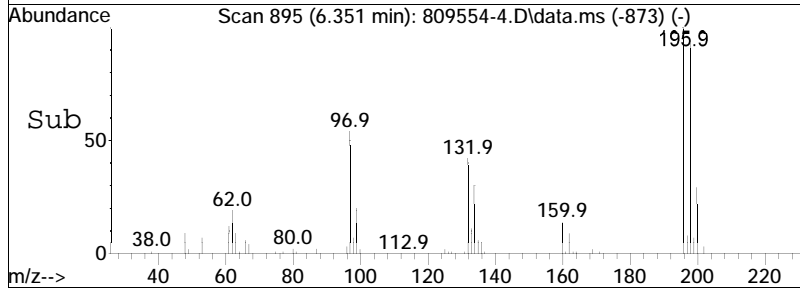


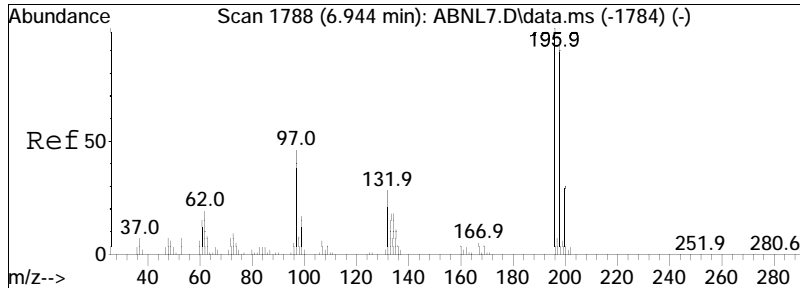


#44
 2,4,6-Trichlorophenol
 Concen: 29.52 ug/ml
 RT: 6.351 min Scan# 895
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am



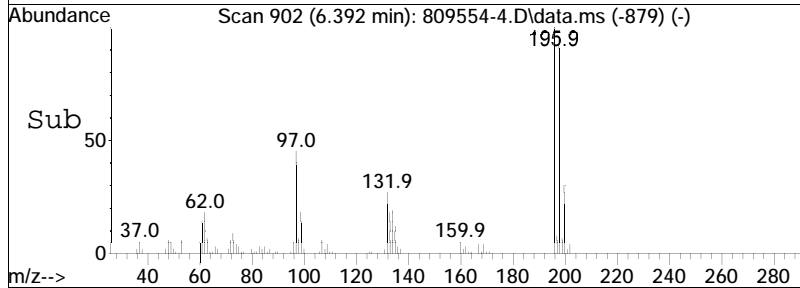
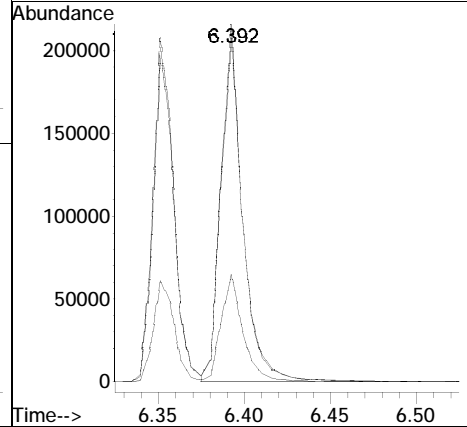
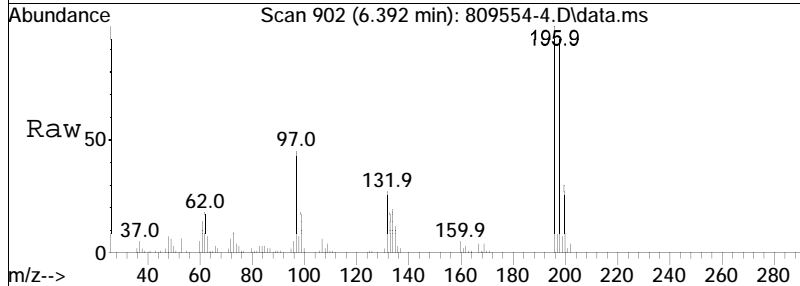
Tgt Ion	Resp	Lower	Upper
196	100		
198	95.4	76.4	114.6
200	30.0	24.4	36.6

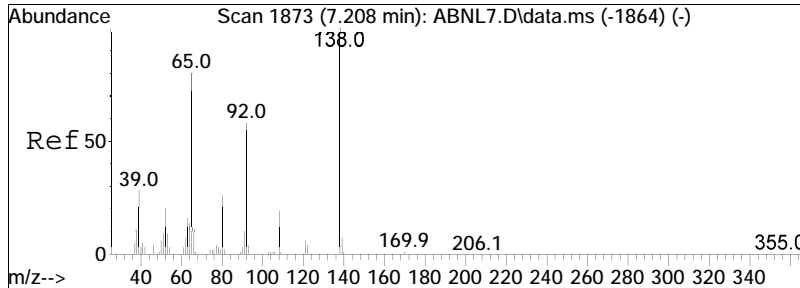




#45
 2,4,5-Trichlorophenol
 Concen: 29.25 ug/ml
 RT: 6.392 min Scan# 902
 Delta R.T. 0.009 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

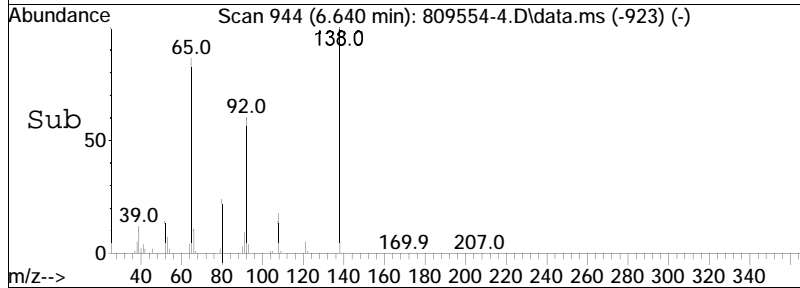
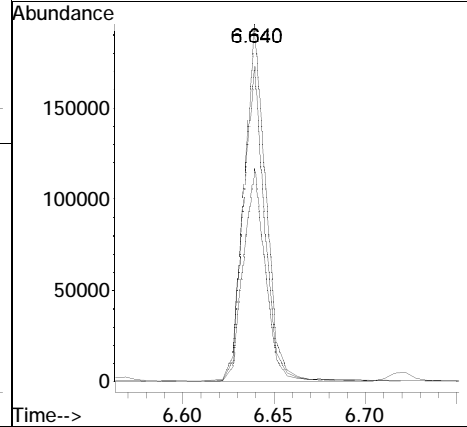
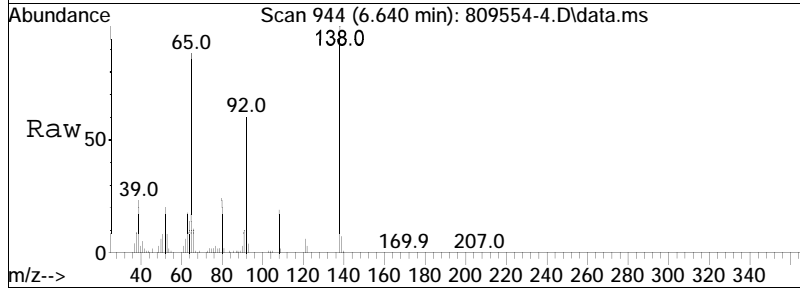
Tgt Ion	Resp	Lower	Upper
196	188310		
196	100		
200	30.7	25.2	37.8
198	96.9	77.7	116.5

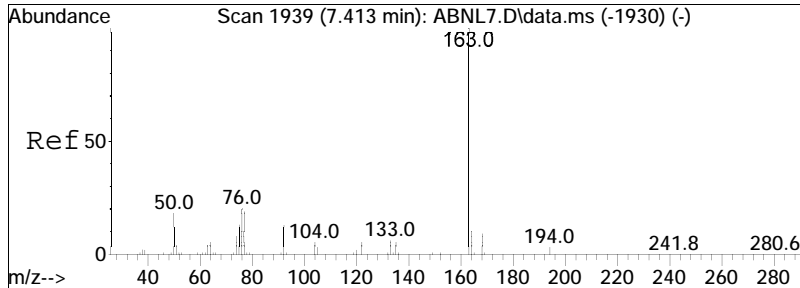




#48
 2-Nitroaniline
 Concen: 25.79 ug/ml
 RT: 6.640 min Scan# 944
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

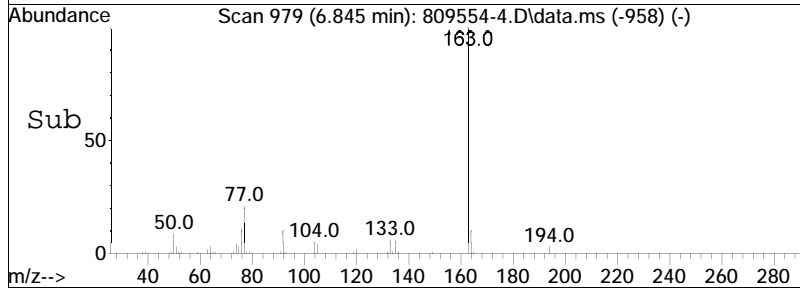
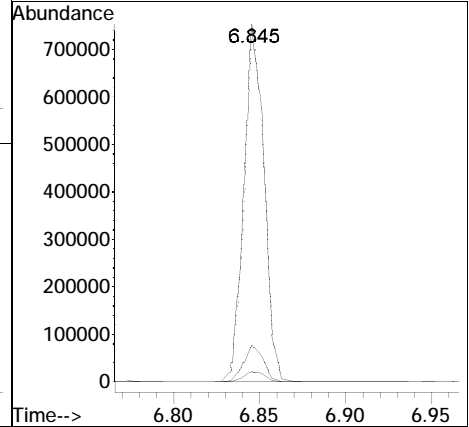
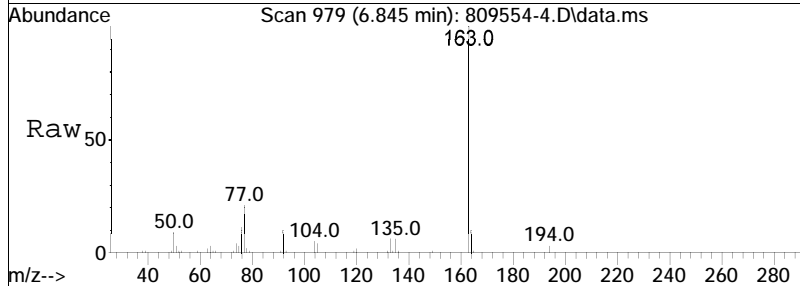
Tgt Ion	Resp	Lower	Upper
138	159168		
92	61.1	48.0	72.0
65	88.3	72.8	109.2

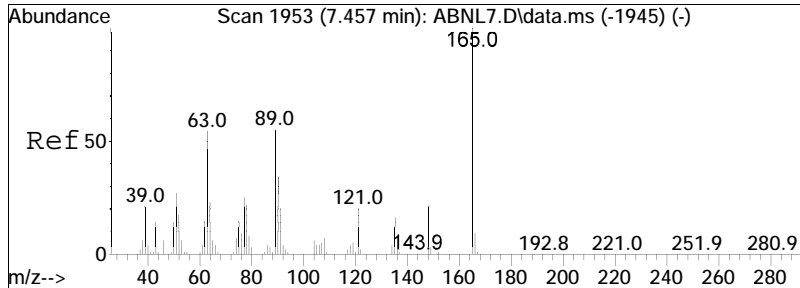




#51
 Dimethyl phthalate
 Concen: 26.24 ug/ml
 RT: 6.845 min Scan# 979
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

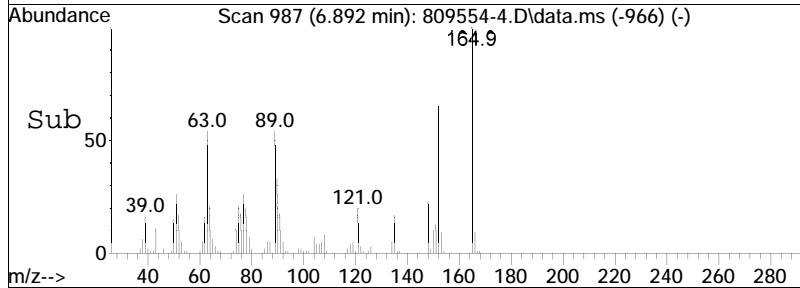
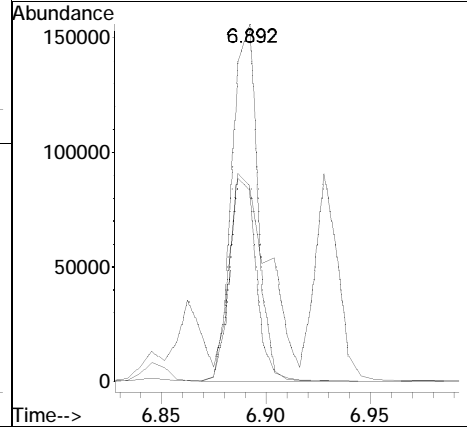
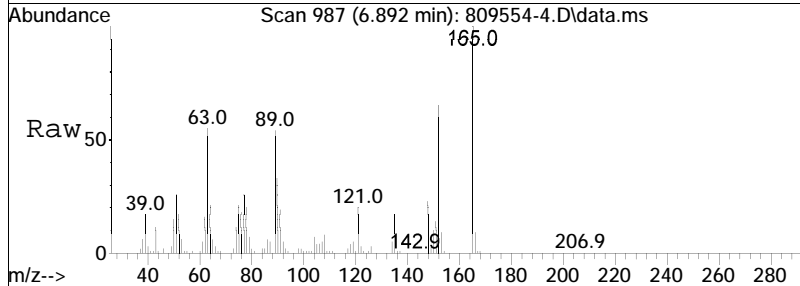
Tgt Ion	163	194	164	Resp:	603298	Lower	Upper
Ion Ratio	100	3.1	10.1			2.4	3.6
						8.1	12.1

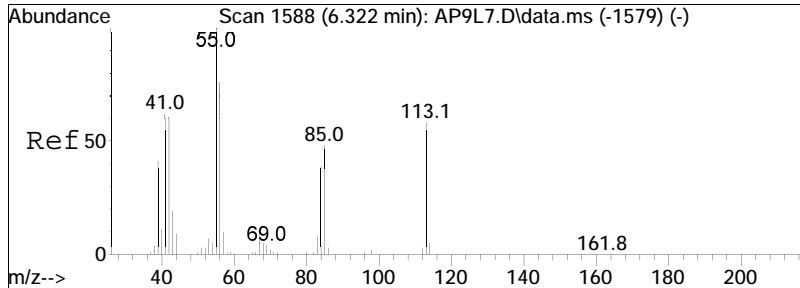




#53
 2,6-Dinitrotoluene
 Concen: 27.03 ug/ml
 RT: 6.892 min Scan# 987
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

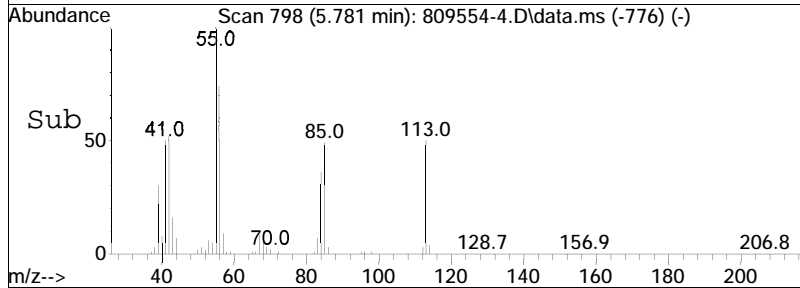
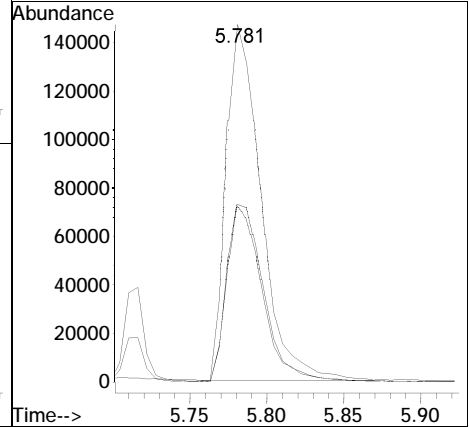
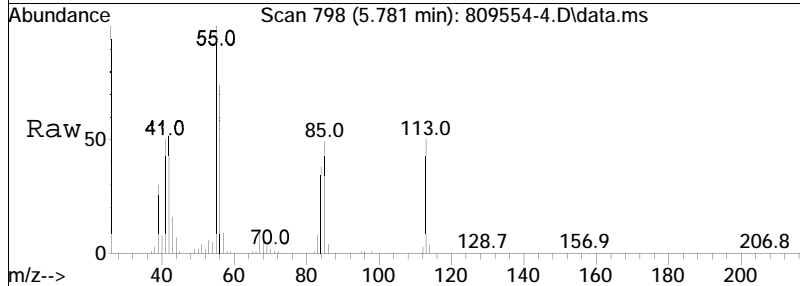
Tgt Ion	Ratio	Lower	Upper
165	100		
89	59.6	44.7	67.1
63	88.8	48.2	72.4#

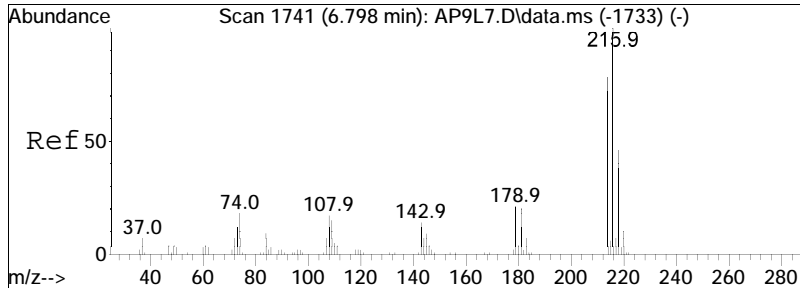




#60
 Caprolactam
 Concen: 58.31 ug/ml
 RT: 5.781 min Scan# 798
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

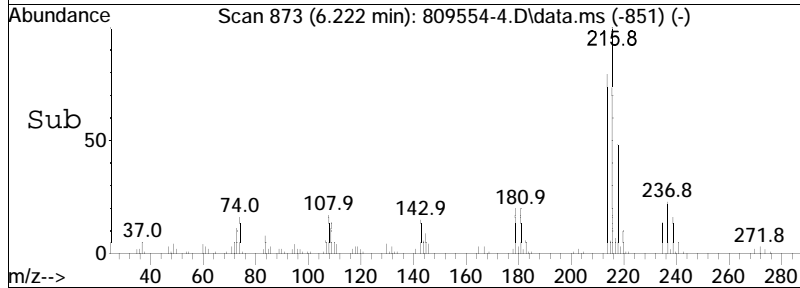
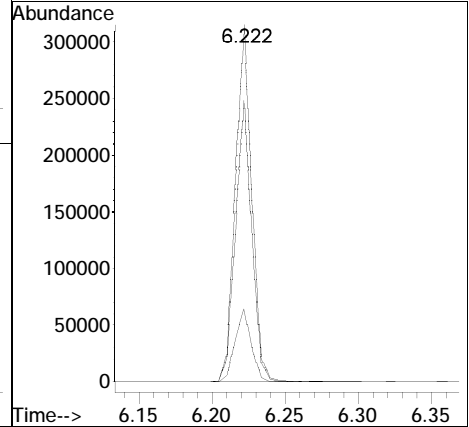
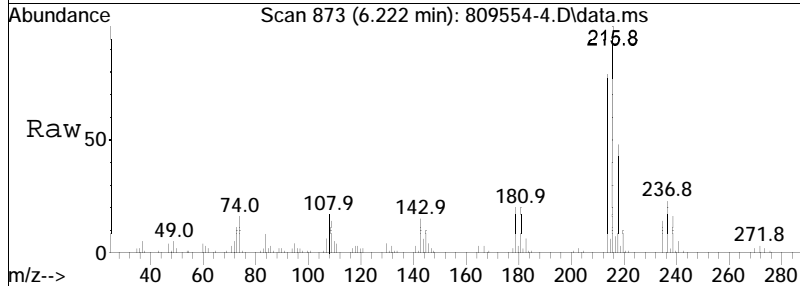
Tgt Ion	Resp	Lower	Upper
55	100		
85	50.0	30.9	46.3#
113	52.6	34.7	52.1#

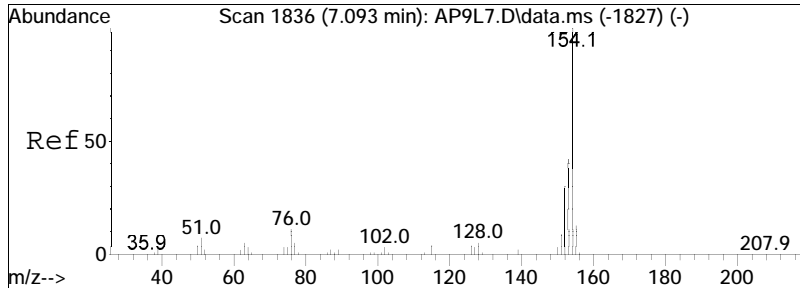




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 26.44 ug/ml
 RT: 6.222 min Scan# 873
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

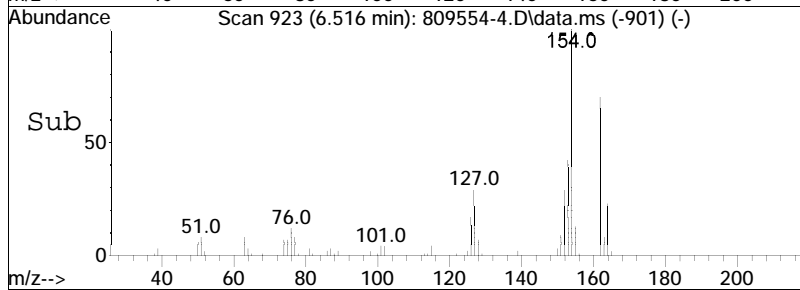
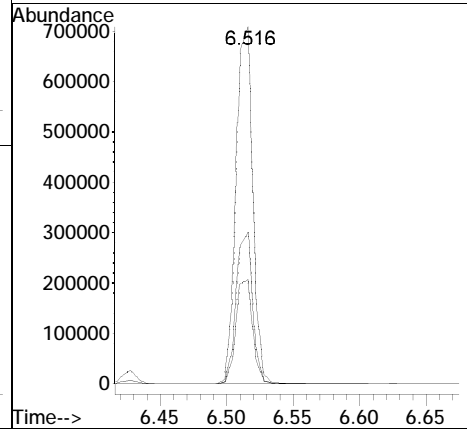
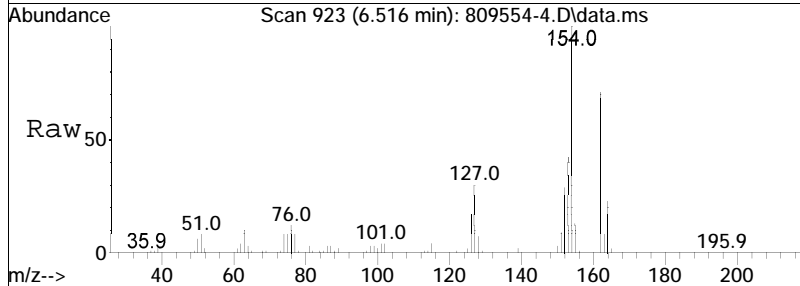
Tgt Ion	Resp	Lower	Upper
216	244206		
216	100		
214	78.6	62.2	93.4
179	20.5	17.4	26.2

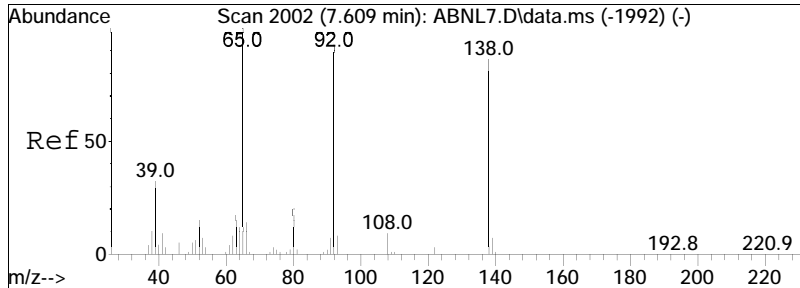




#62
 Biphenyl
 Concen: 28.07 ug/ml
 RT: 6.516 min Scan# 923
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

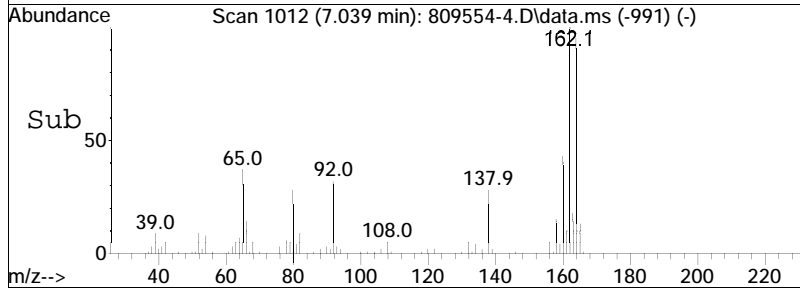
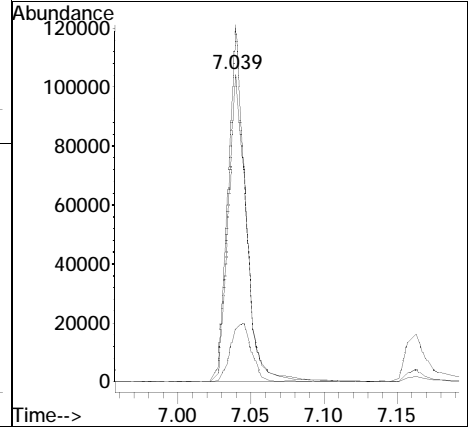
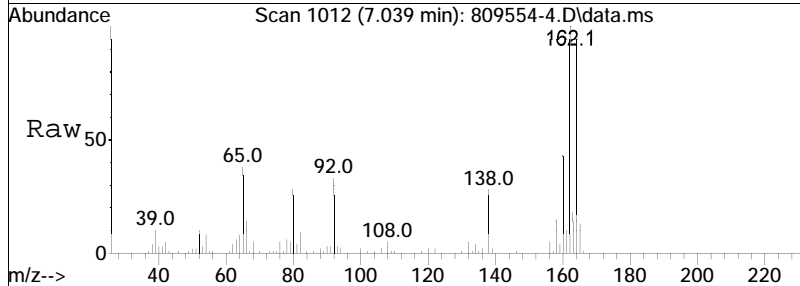
Tgt Ion	Ratio	Lower	Upper
154	100		
153	42.1	33.4	50.0
152	29.6	23.0	34.6

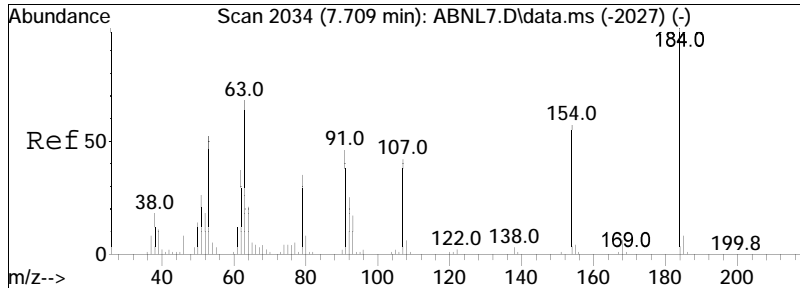




#64
 3-Nitroaniline
 Concen: 15.80 ug/ml
 RT: 7.039 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

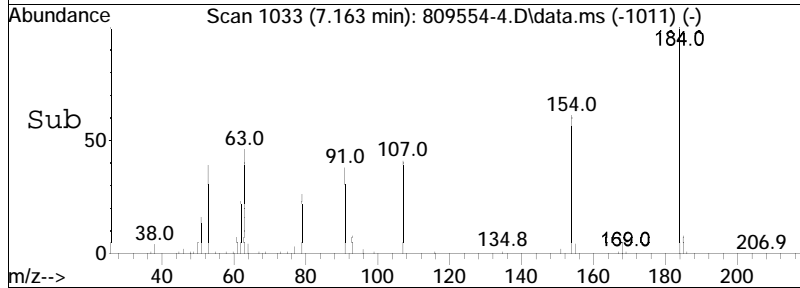
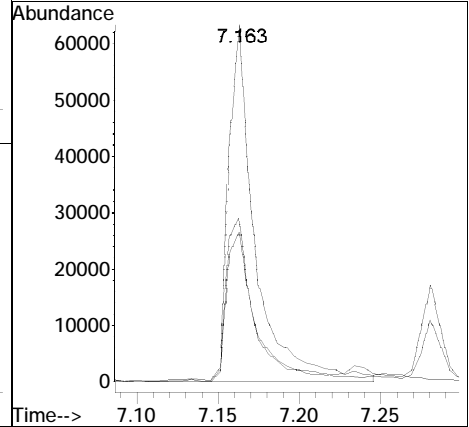
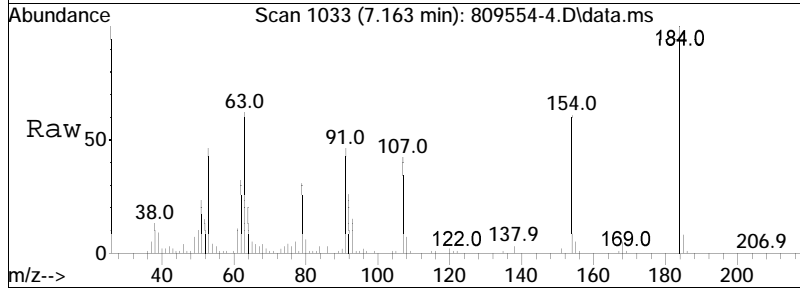
Tgt Ion	Resp	Lower	Upper
138	100		
92	111.6	86.4	129.6
108	22.1	9.4	14.0#

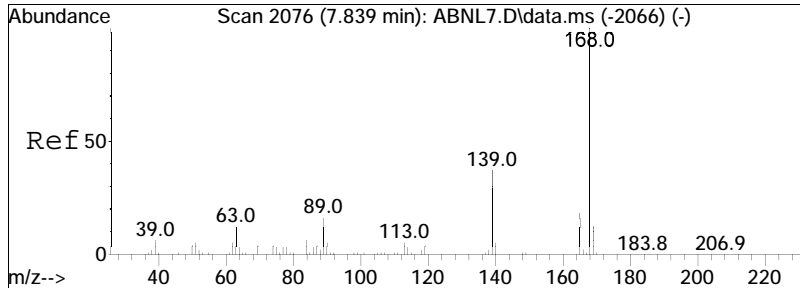




#66
 2,4-Dinitrophenol
 Concen: 27.74 ug/ml
 RT: 7.163 min Scan# 1033
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

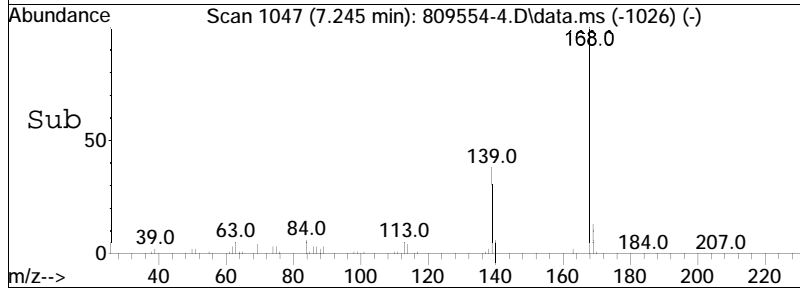
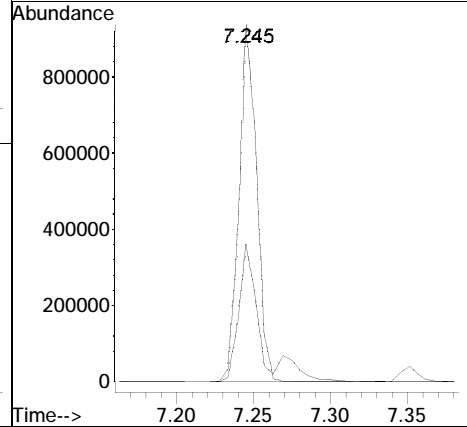
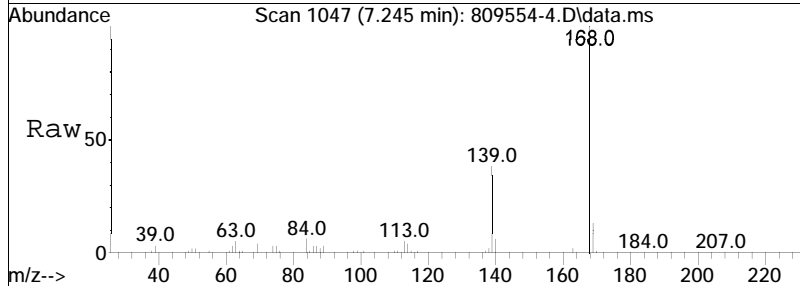
Tgt Ion	Resp	Lower	Upper
184	100		
107	47.5	37.3	55.9
91	48.0	43.8	65.6

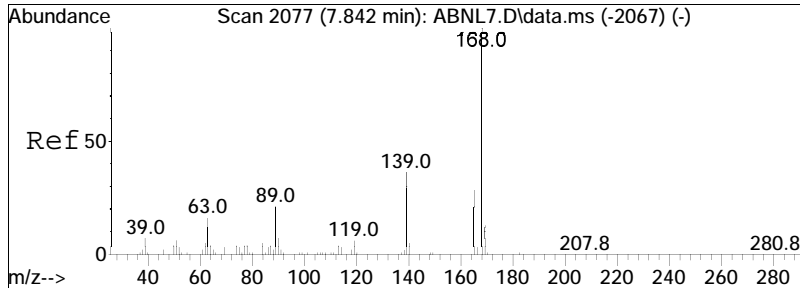




#67
 Dibenzofuran
 Concen: 26.36 ug/ml
 RT: 7.245 min Scan# 1047
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

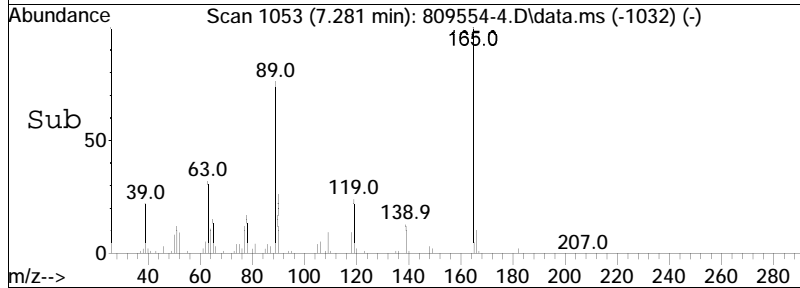
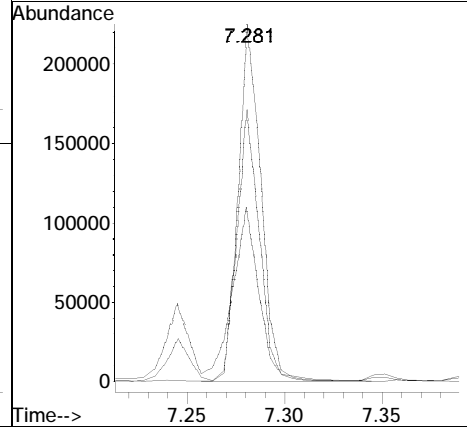
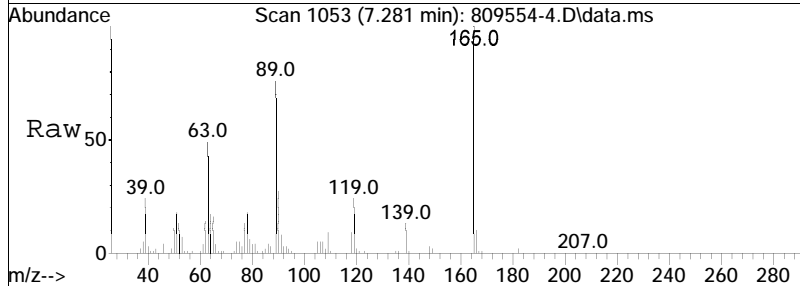
Tgt Ion	Resp	Lower	Upper
168	100		
139	38.4	30.4	45.6

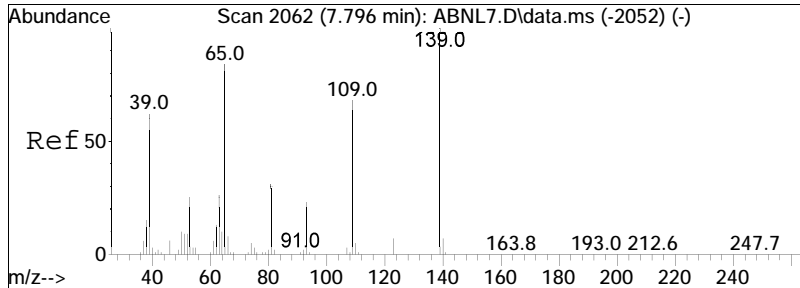




#68
 2,4-Dinitrotoluene
 Concen: 28.05 ug/ml
 RT: 7.281 min Scan# 1053
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

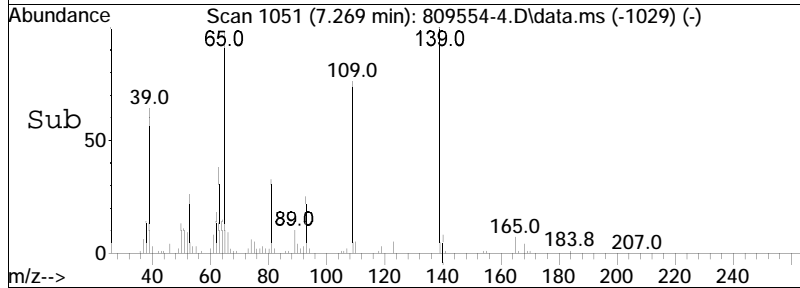
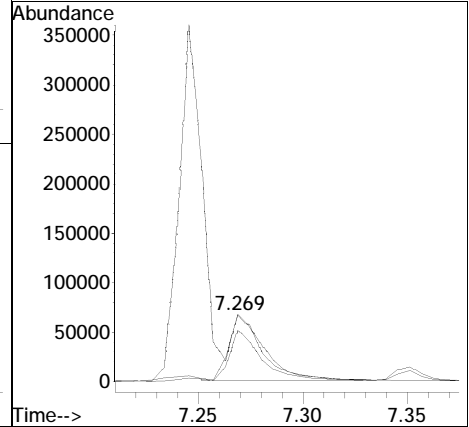
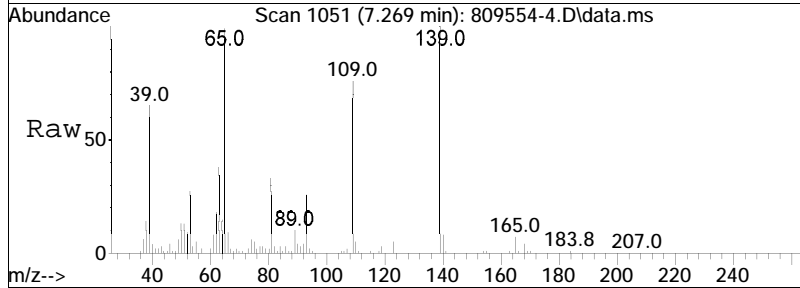
Tgt Ion	Ratio	Lower	Upper
165	100		
89	74.1	69.8	104.8
63	56.3	59.2	88.8#

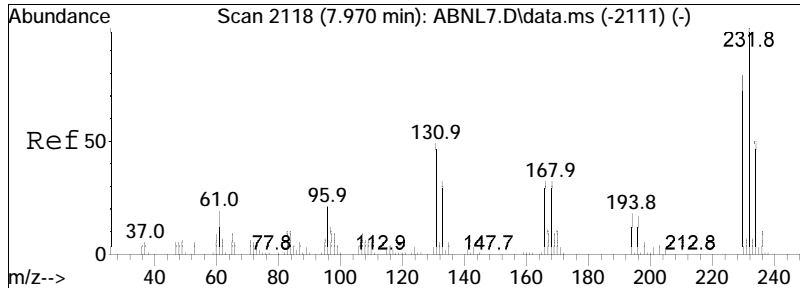




#69
 4-Nitrophenol
 Concen: 18.51 ug/ml
 RT: 7.269 min Scan# 1051
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

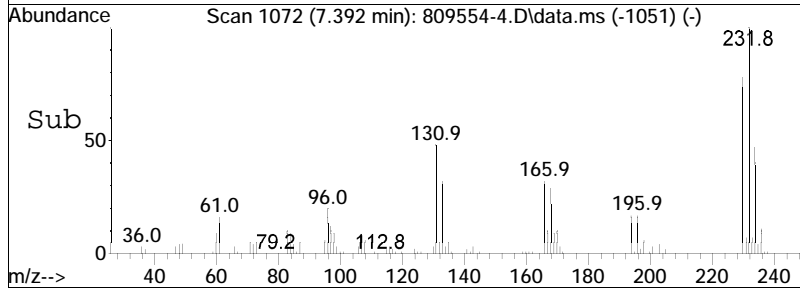
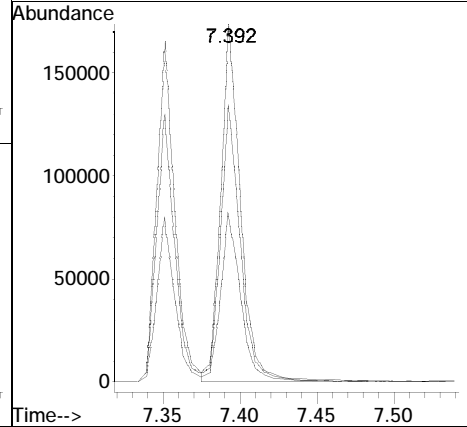
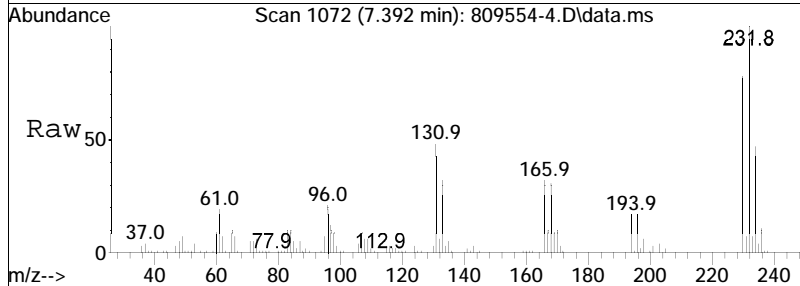
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
65	100		
109	77.0	52.8	79.2
139	88.9	84.1	126.1

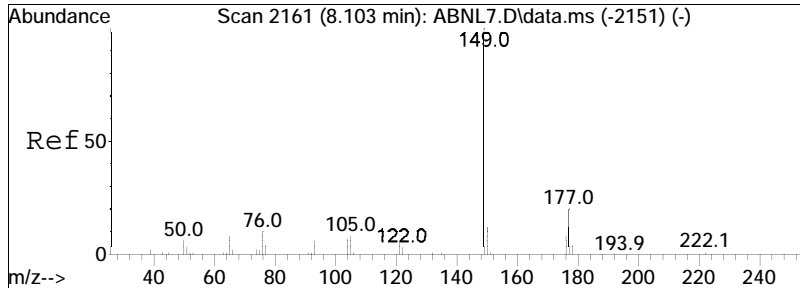




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 27.29 ug/ml
 RT: 7.392 min Scan# 1072
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

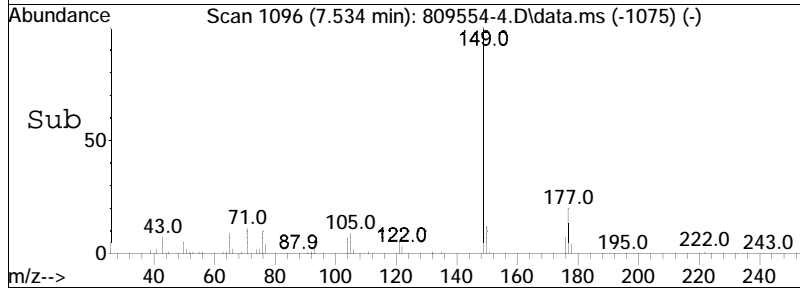
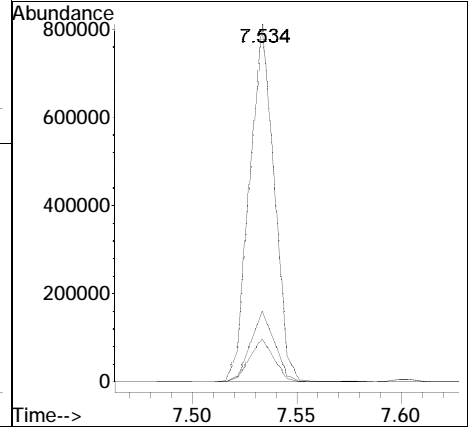
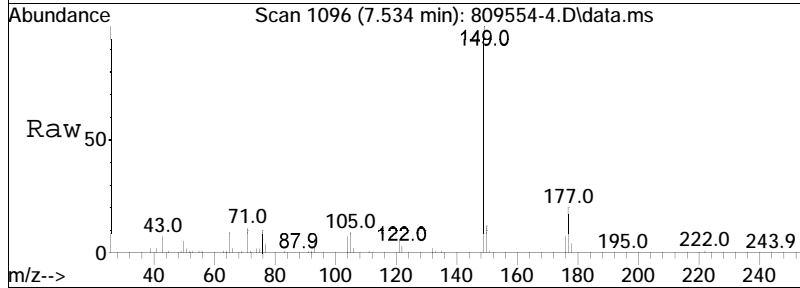
Tgt Ion	Resp	Lower	Upper
232	100		
230	78.1	62.8	94.2
234	48.8	38.3	57.5

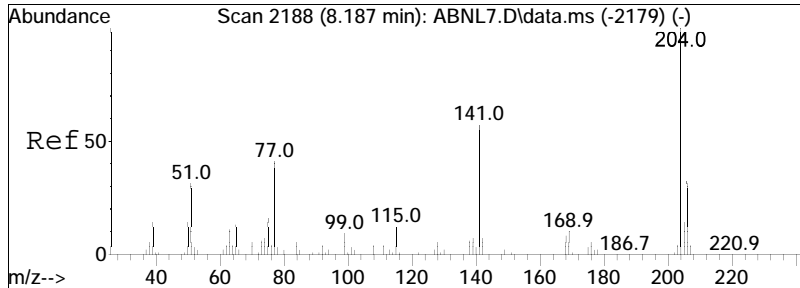




#72
 Diethyl phthalate
 Concen: 25.53 ug/ml
 RT: 7.534 min Scan# 1096
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

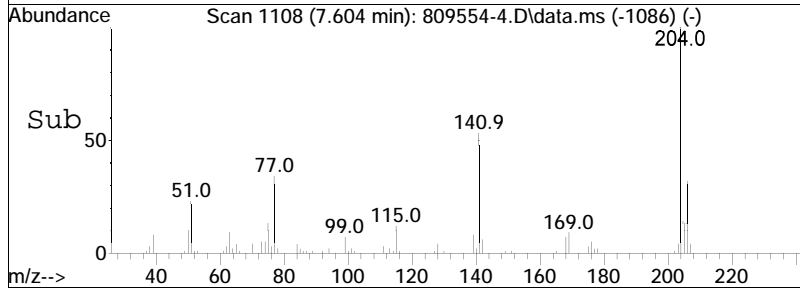
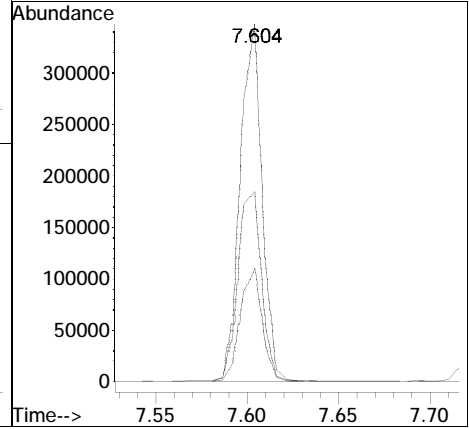
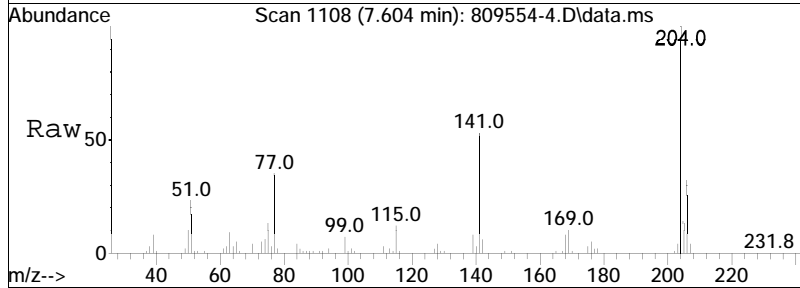
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.6	15.6	23.4
150	12.1	9.6	14.4

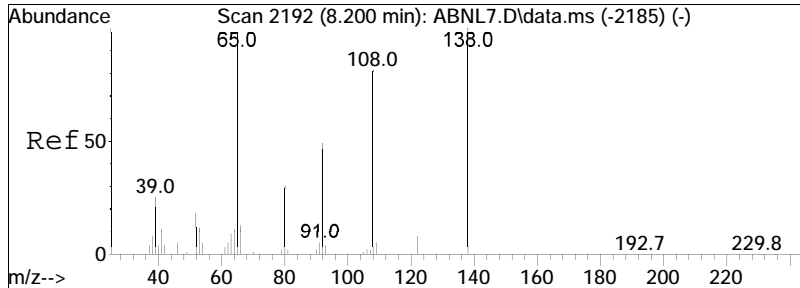




#74
 4-Chlorophenyl phenyl ether
 Concen: 26.33 ug/ml
 RT: 7.604 min Scan# 1108
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

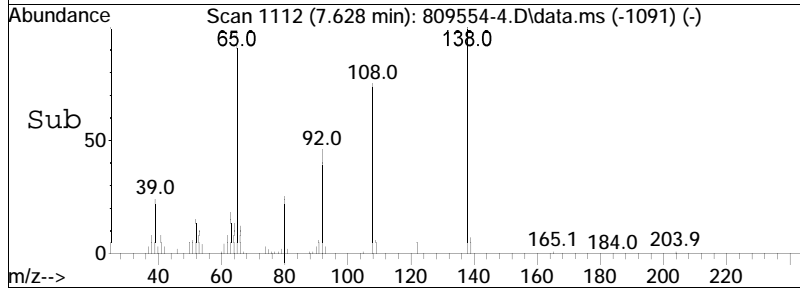
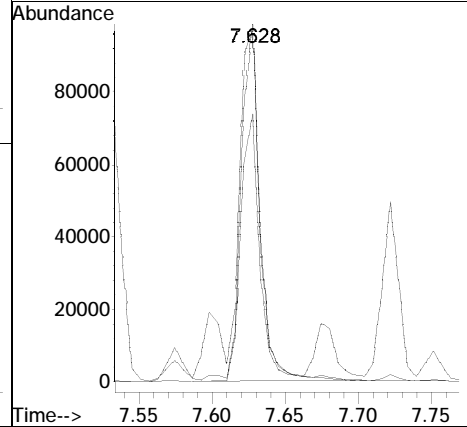
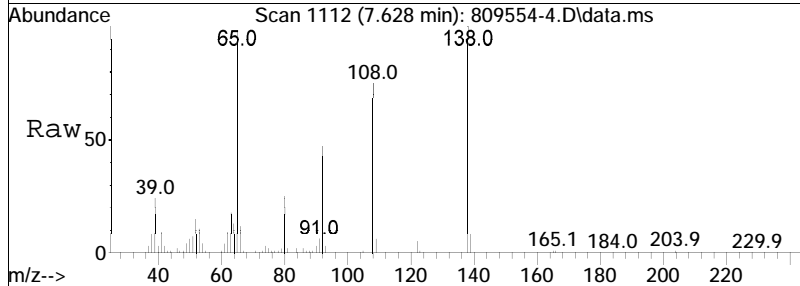
Tgt Ion	Ratio	Lower	Upper
204	100		
206	31.7	26.0	39.0
141	57.7	48.5	72.7

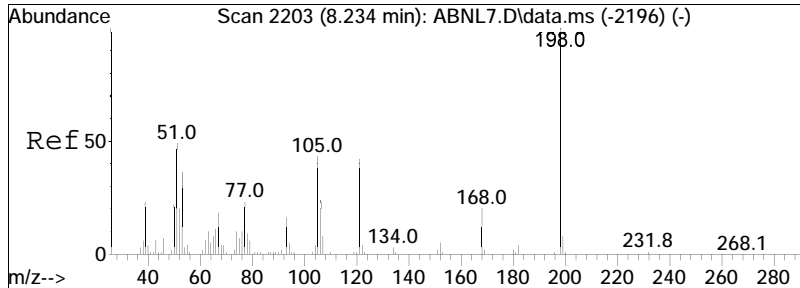




#75
 4-Nitroaniline
 Concen: 15.91 ug/ml
 RT: 7.628 min Scan# 1112
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

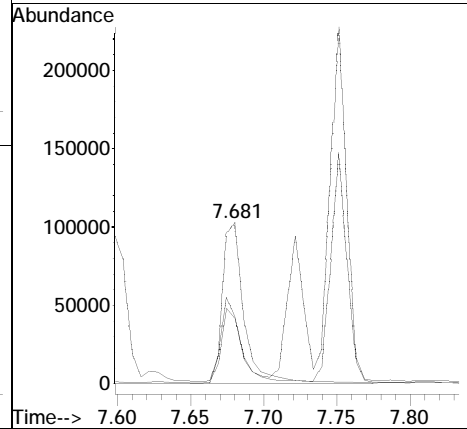
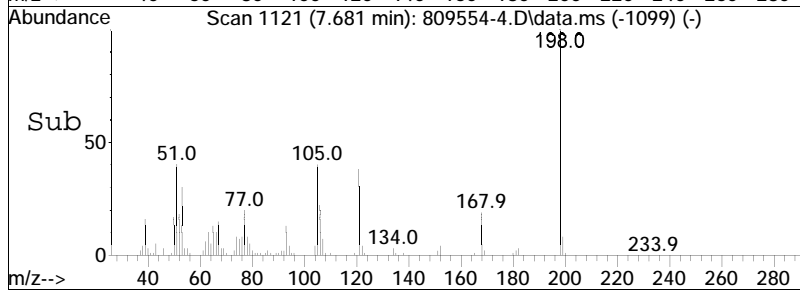
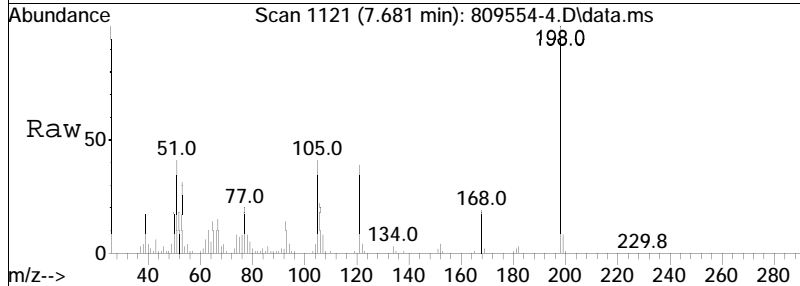
Tgt Ion	Resp	Lower	Upper
138	100		
108	76.4	54.4	81.6
65	98.3	100.1	150.1#

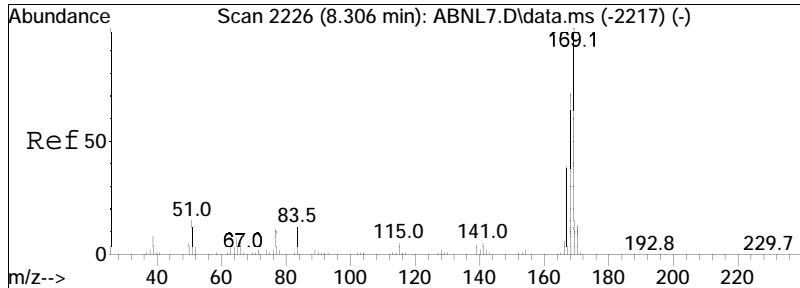




#76
 4,6-Dinitro-o-cresol
 Concen: 31.79 ug/ml
 RT: 7.681 min Scan# 1121
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

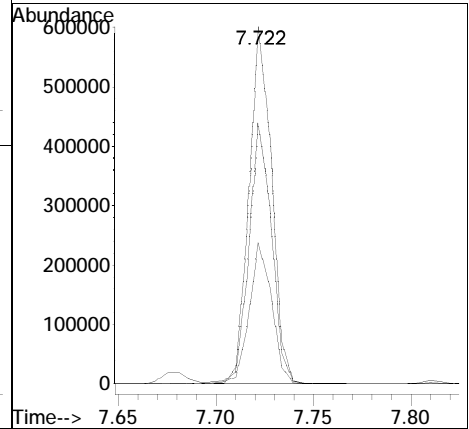
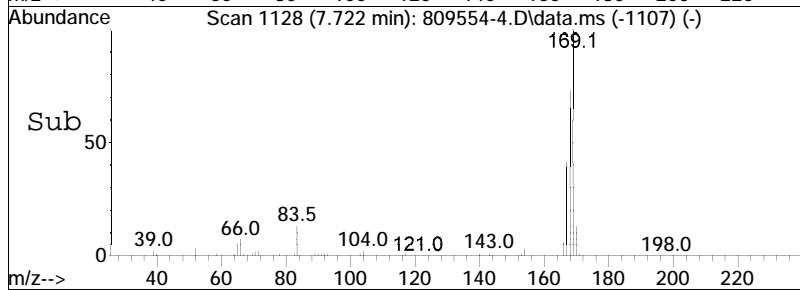
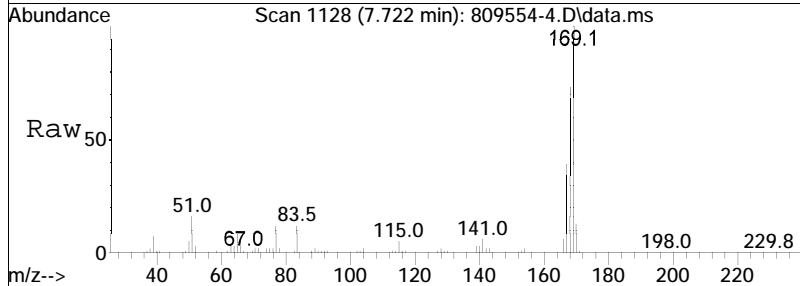
Tgt Ion	Ratio	Lower	Upper
198	100		
51	47.1	48.3	72.5#
105	45.7	38.4	57.6

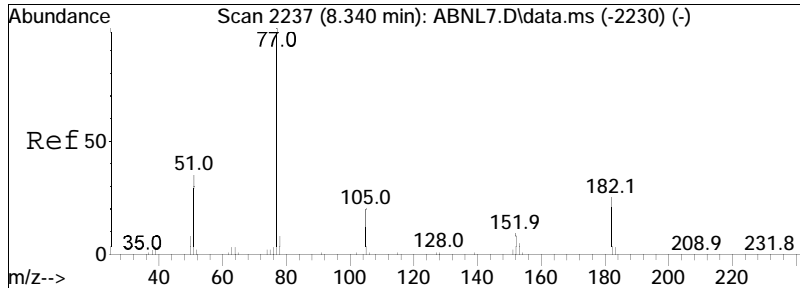




#77
 NDPA/DPA
 Concen: 24.95 ug/ml
 RT: 7.722 min Scan# 1128
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

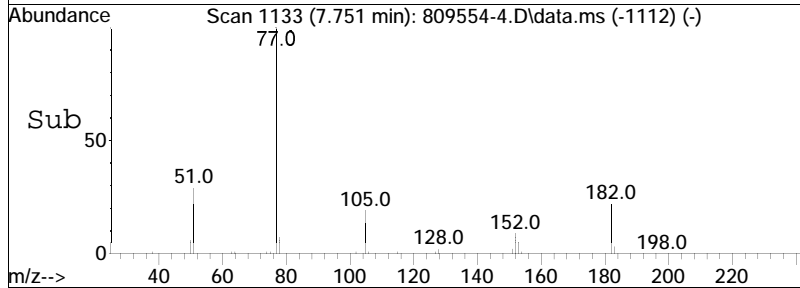
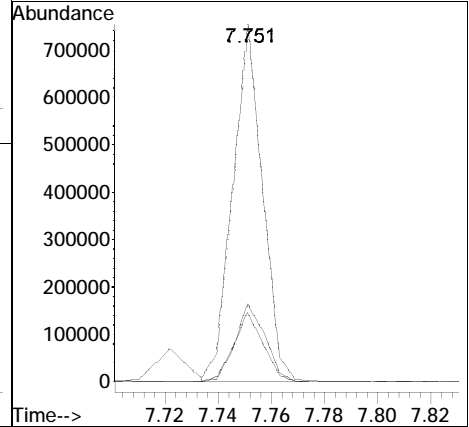
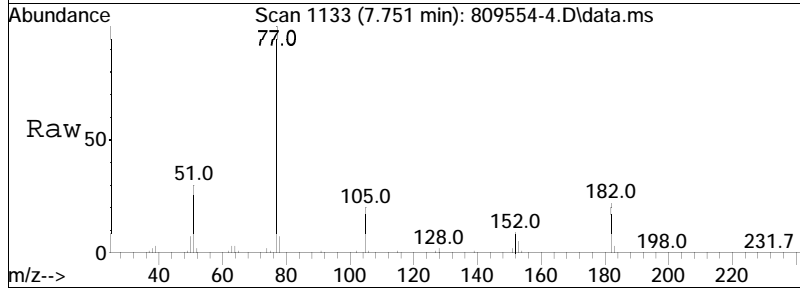
Tgt Ion	Ratio	Lower	Upper
169	100		
168	73.4	57.2	85.8
167	39.9	31.0	46.4

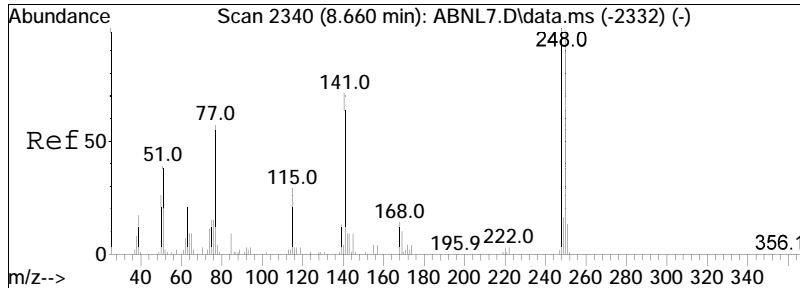




#78
 Azobenzene
 Concen: 25.02 ug/ml
 RT: 7.751 min Scan# 1133
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

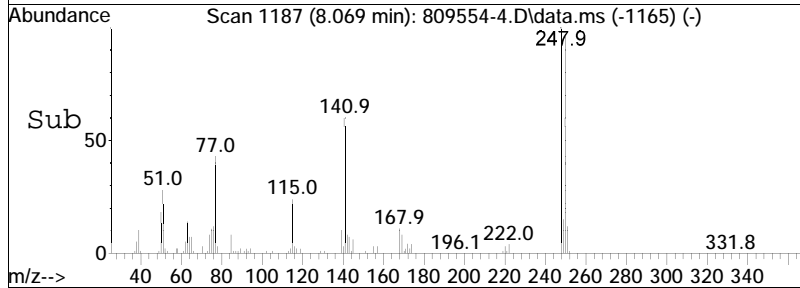
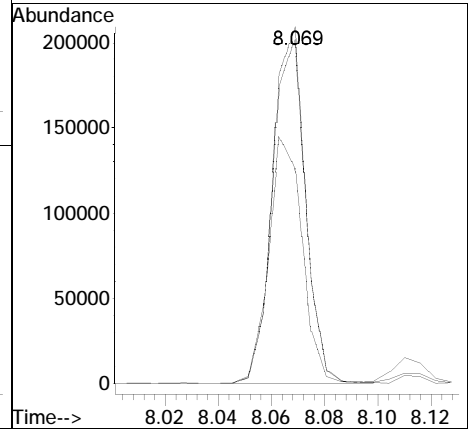
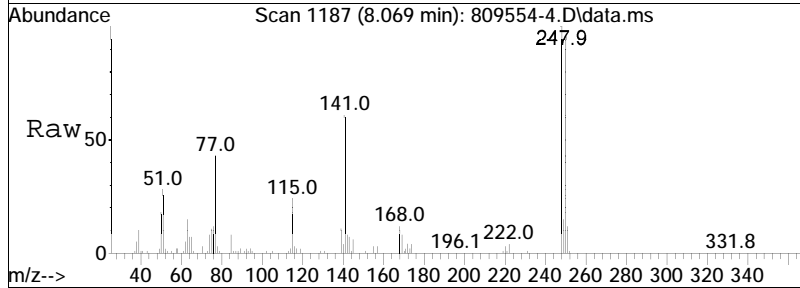
Tgt Ion	Resp	Lower	Upper
77	100		
182	22.3	17.2	25.8
105	19.6	17.1	25.7

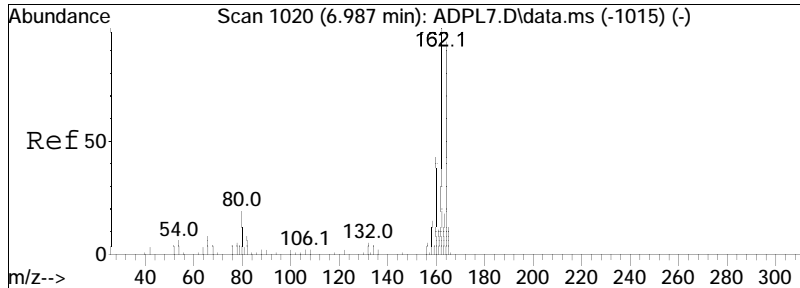




#80
 4-Bromophenyl phenyl ether
 Concen: 26.57 ug/ml
 RT: 8.069 min Scan# 1187
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

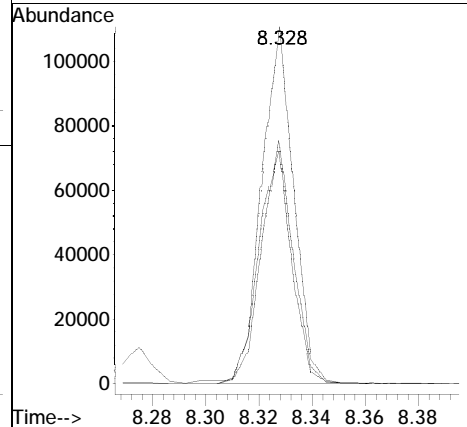
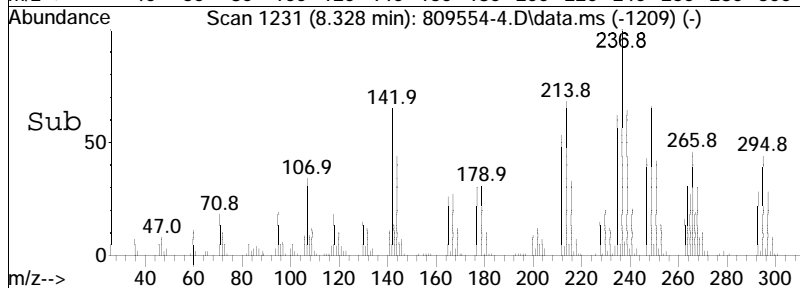
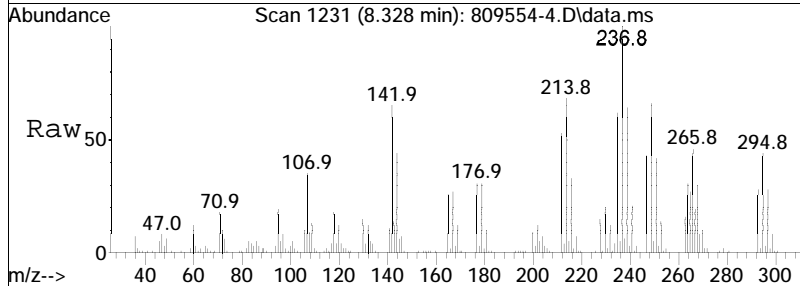
Tgt Ion	Ratio	Lower	Upper
248	100		
141	70.6	59.9	89.9
250	97.1	78.0	117.0

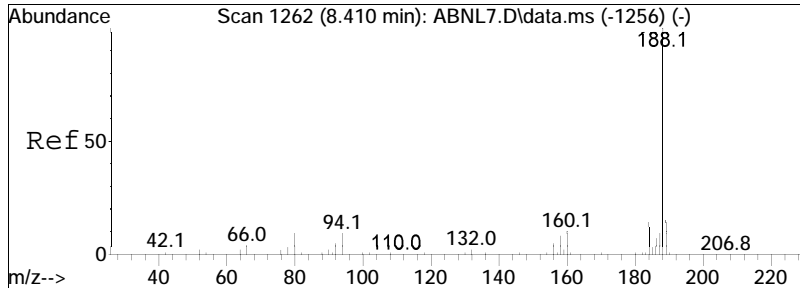




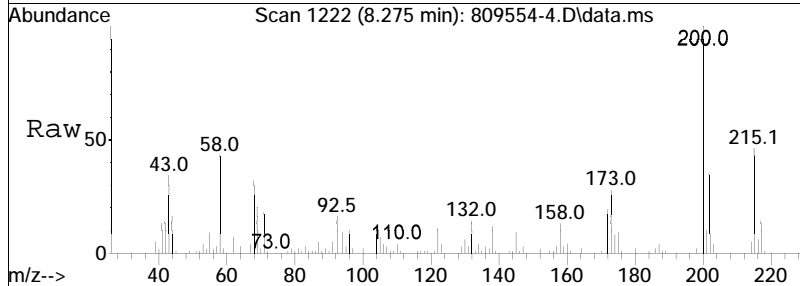
#85
 Pentachloronitrobenzene
 Concen: 29.70 ug/ml
 RT: 8.328 min Scan# 1231
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

Tgt Ion	Resp	Lower	Upper
237	100		
142	67.8	59.4	89.2
214	68.1	56.5	84.7

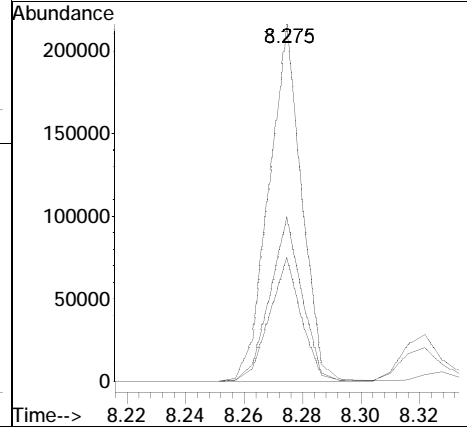
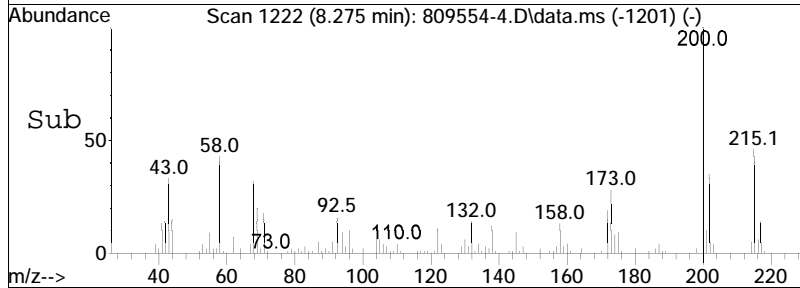


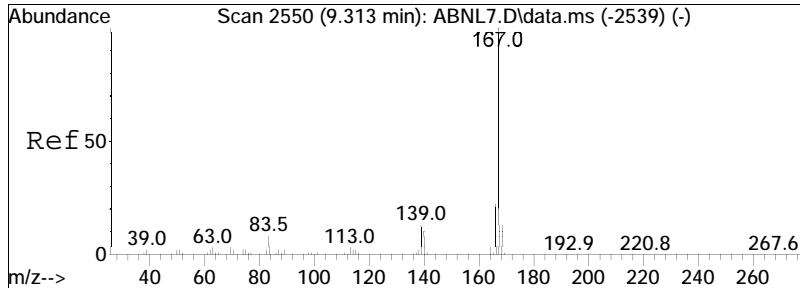


#87
 Atrazine
 Concen: 26.31 ug/ml
 RT: 8.275 min Scan# 1222
 Delta R.T. 0.000 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am



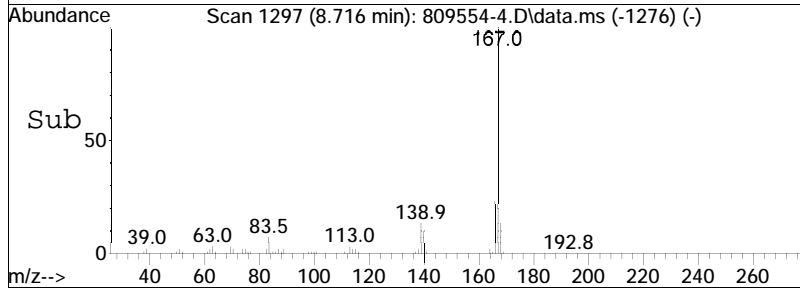
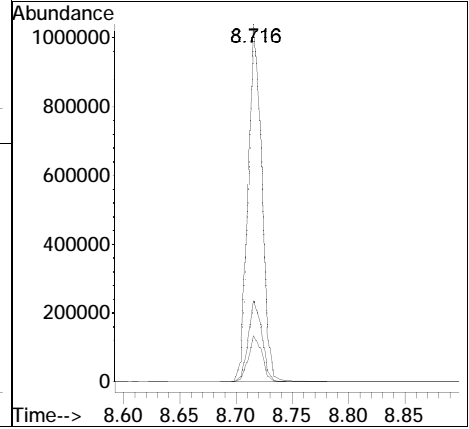
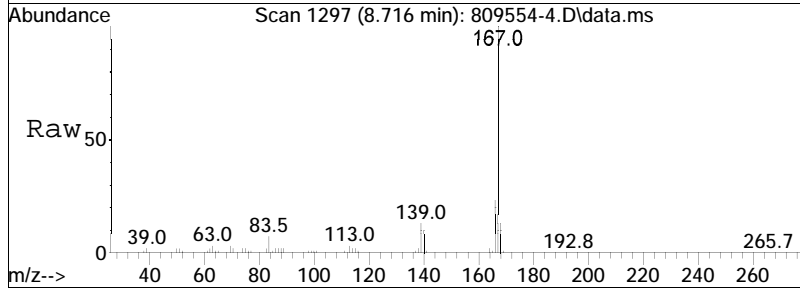
Tgt Ion	Resp	Lower	Upper
200	166800		
200	100		
202	34.0	26.1	39.1
215	45.3	36.2	54.2

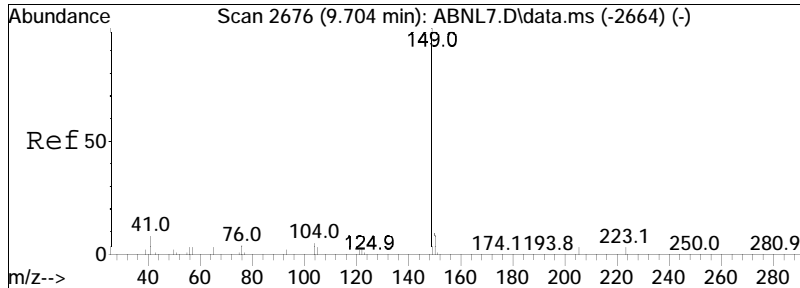




#91
 Carbazole
 Concen: 26.48 ug/ml
 RT: 8.716 min Scan# 1297
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

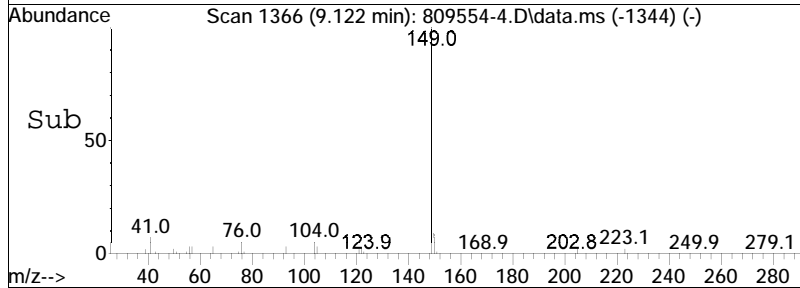
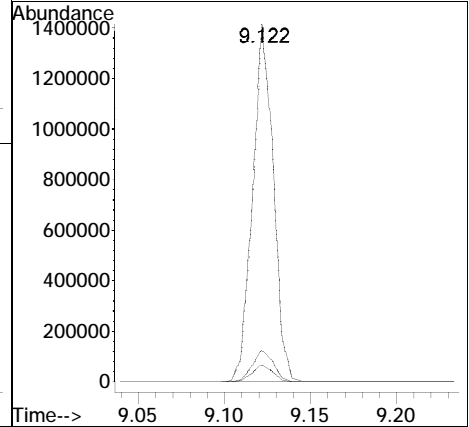
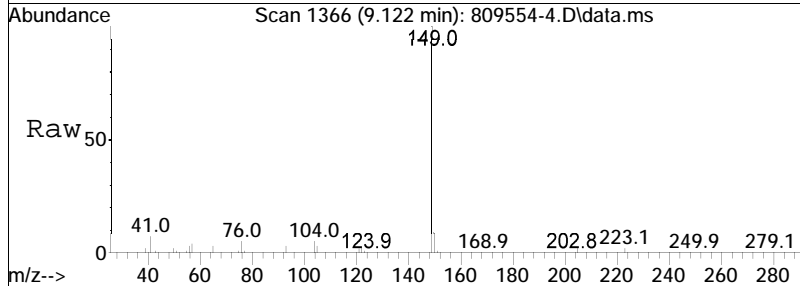
Tgt Ion	Resp	Lower	Upper
167	100		
168	13.2	10.6	16.0
166	23.1	18.0	27.0

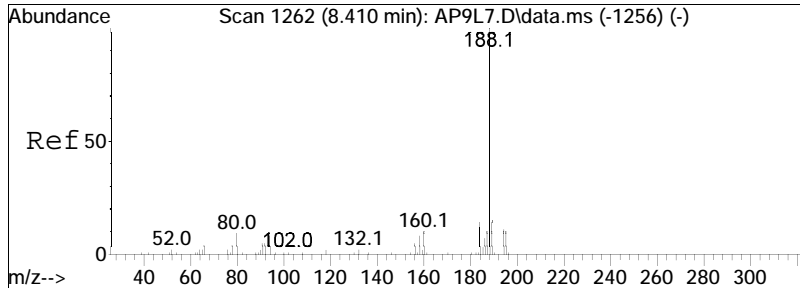




#92
 Di-n-butylphthalate
 Concen: 26.14 ug/ml
 RT: 9.122 min Scan# 1366
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

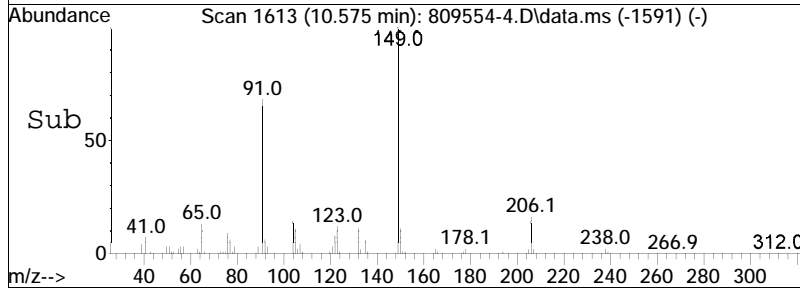
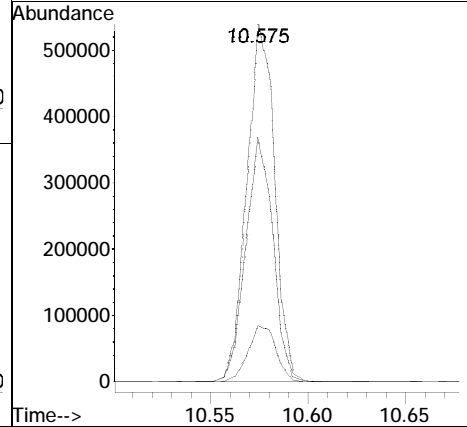
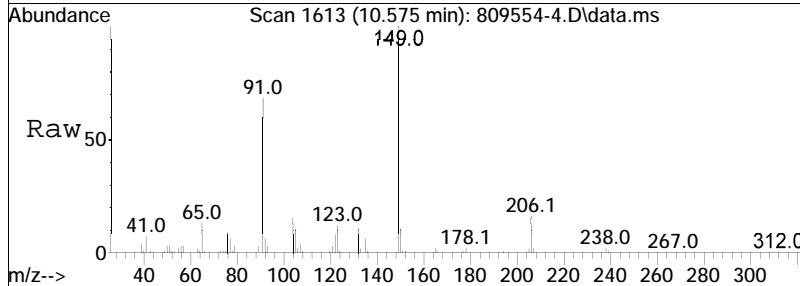
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.3	10.9
104	4.8	3.6	5.4

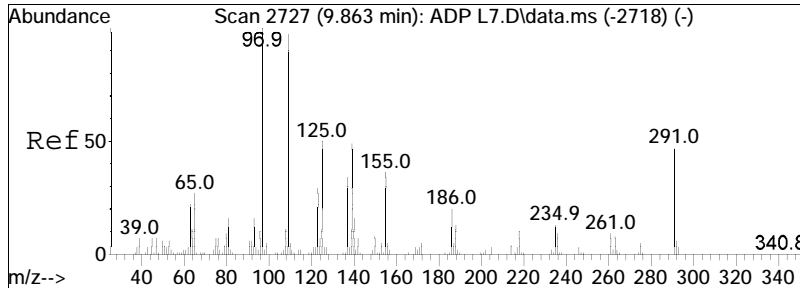




#97
 Butyl benzyl phthalate
 Concen: 26.14 ug/ml
 RT: 10.575 min Scan# 1613
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

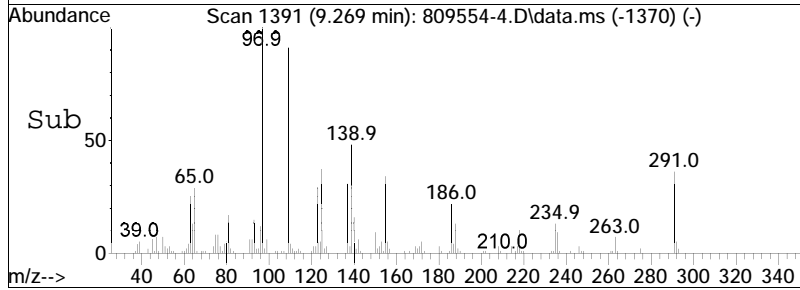
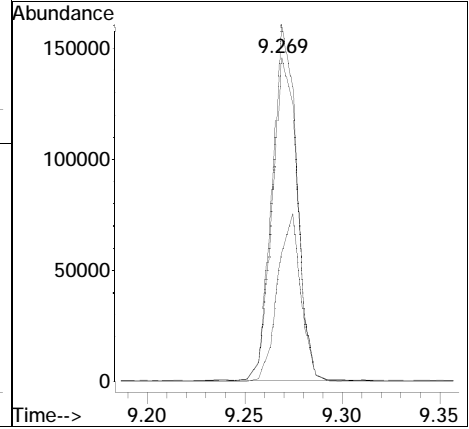
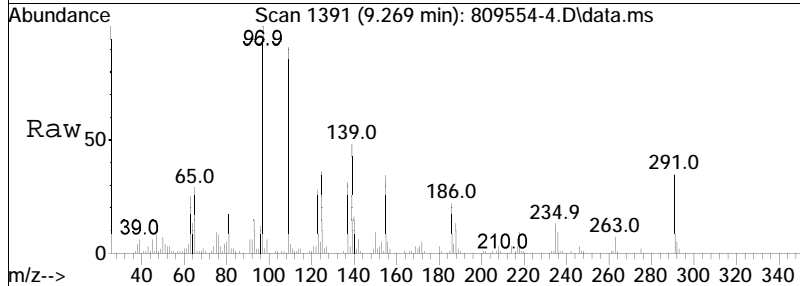
Tgt Ion	Ratio	Lower	Upper
149	100		
91	66.5	54.6	81.8
206	15.8	12.5	18.7

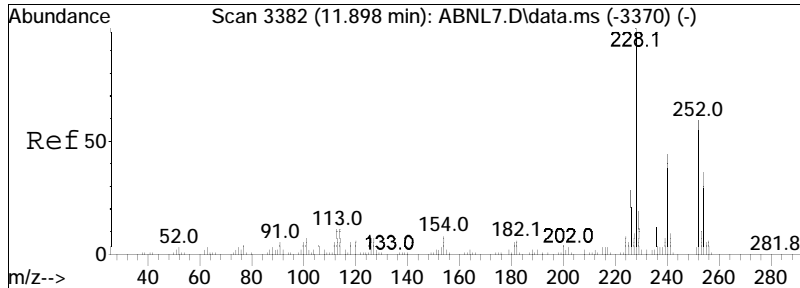




#102
 Parathion
 Concen: 34.27 ug/ml
 RT: 9.269 min Scan# 1391
 Delta R.T. 0.000 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

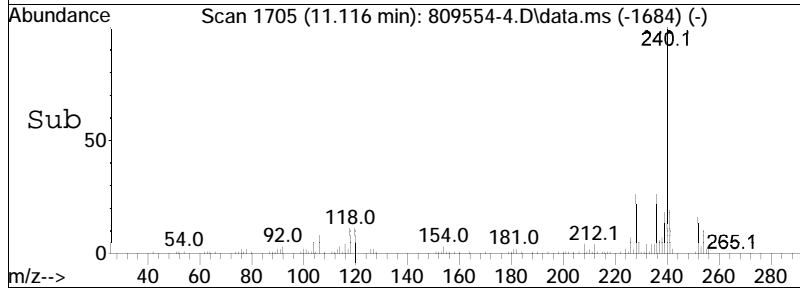
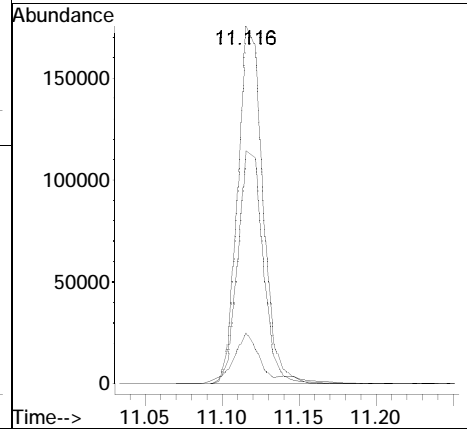
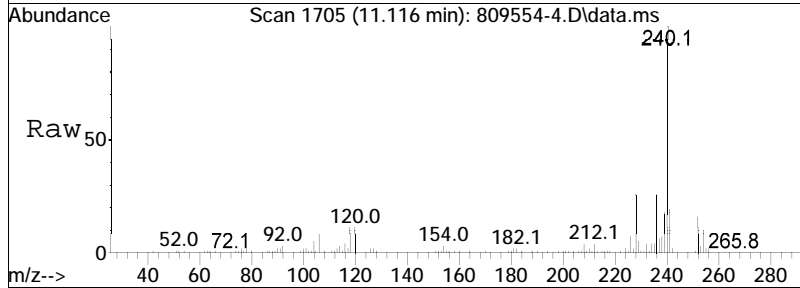
Tgt Ion	109	Resp:	129096
Ion Ratio	Lower	Upper	
109	100		
97	108.4	82.5	123.7
291	48.3	30.7	46.1#

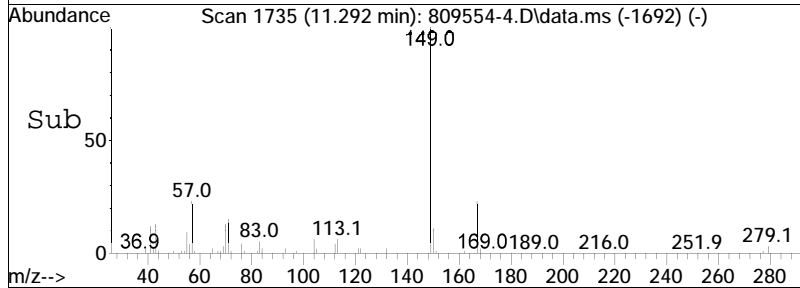
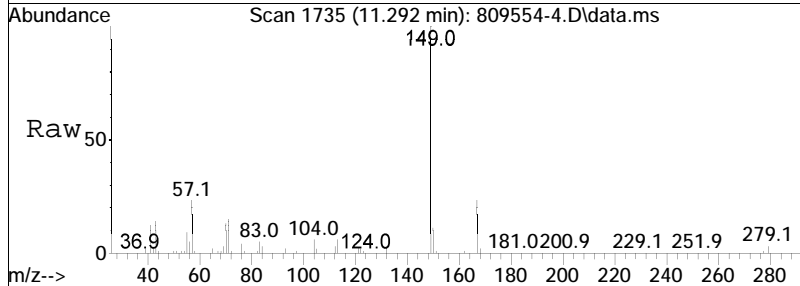
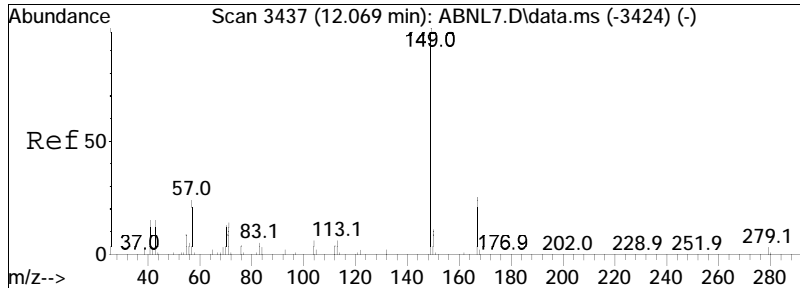




#106
 3,3'-Dichlorobenzidine
 Concen: 13.13 ug/ml
 RT: 11.116 min Scan# 1705
 Delta R.T. -0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

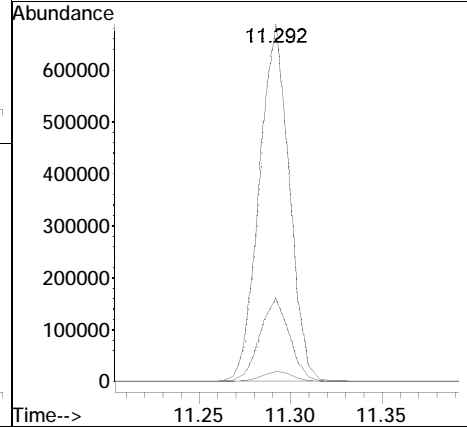
Tgt Ion	Resp	Lower	Upper
252	100		
126	16.3	12.4	18.6
254	65.7	51.8	77.6

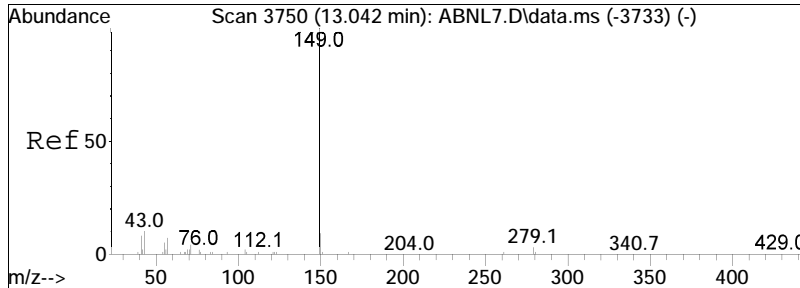




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 25.98 ug/ml
 RT: 11.292 min Scan# 1735
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

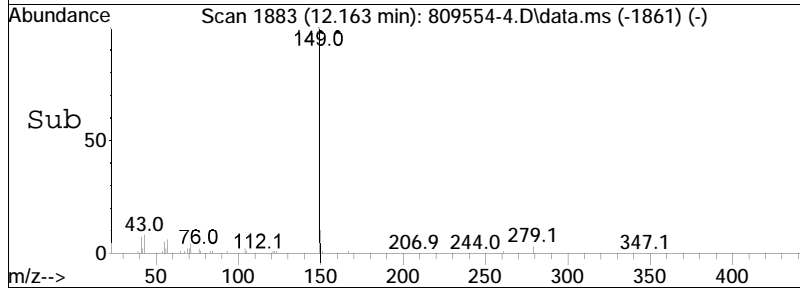
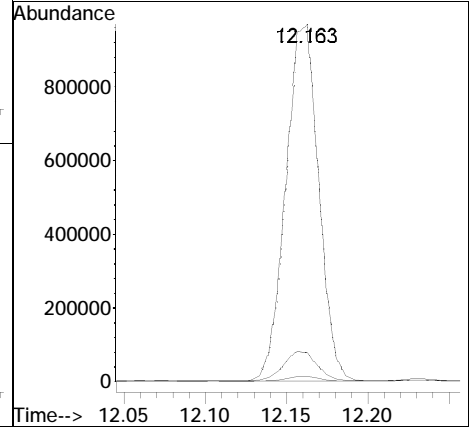
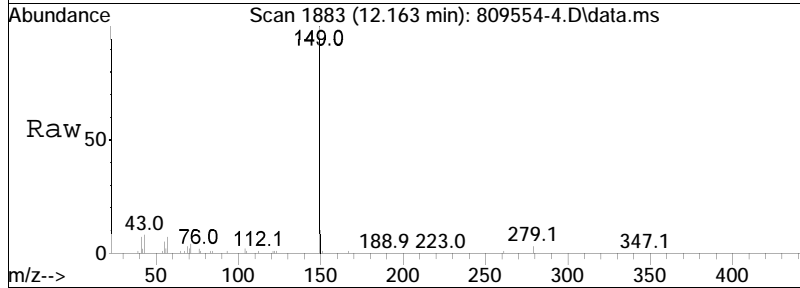
Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.2	19.0	28.6
279	2.7	2.0	3.0





#109
 Di-n-octylphthalate
 Concen: 25.65 ug/ml
 RT: 12.163 min Scan# 1883
 Delta R.T. 0.003 min
 Lab File: 809554-4.D
 Acq: 2 Aug 2023 5:57 am

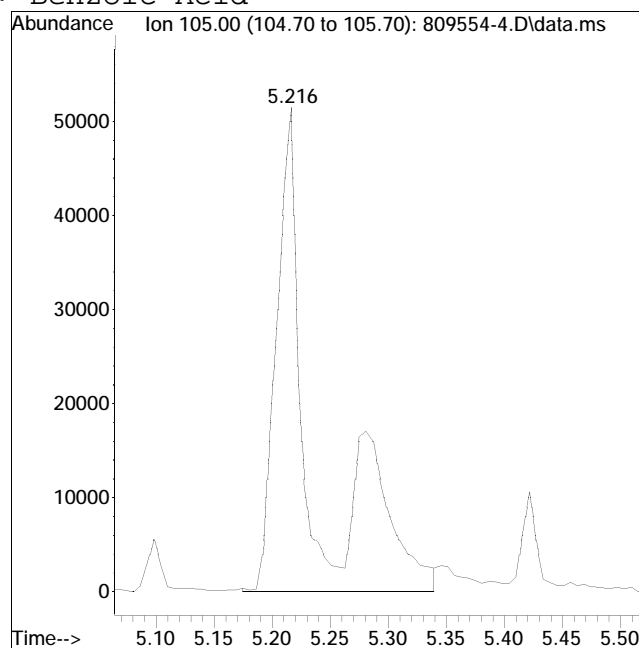
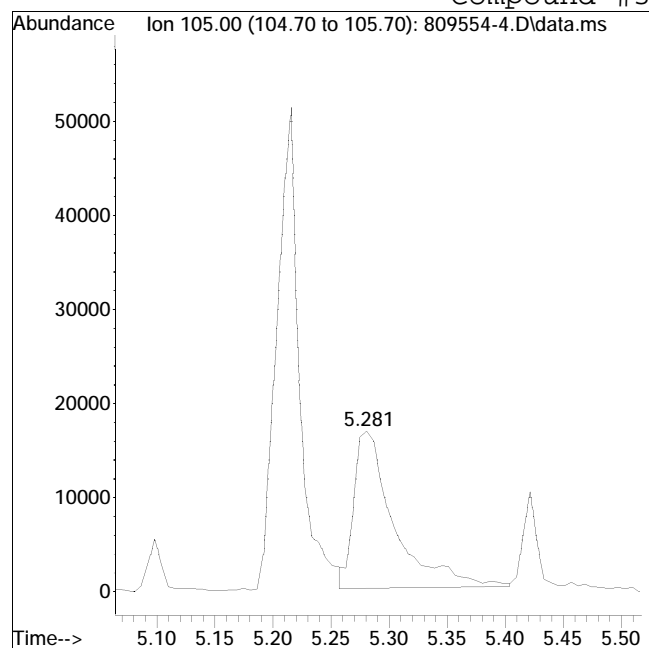
Tgt Ion	Ratio	Lower	Upper
149	100		
43	8.5	9.0	13.4#
167	1.4	1.1	1.7



Manual Integration Report

Data Path : I:\8270\SV109\230801n\ QMethod : FS230531SV109.m
Data File : 809554-4.D Operator : SV109:slr
Date Inj'd : 8/2/2023 5:57 am Instrument : SV109
Sample : WG1809554-4,32,,ASK Quant Date : 8/2/2023 6:16 am

Compound #37: Benzoic Acid



Original Peak Response = 40220

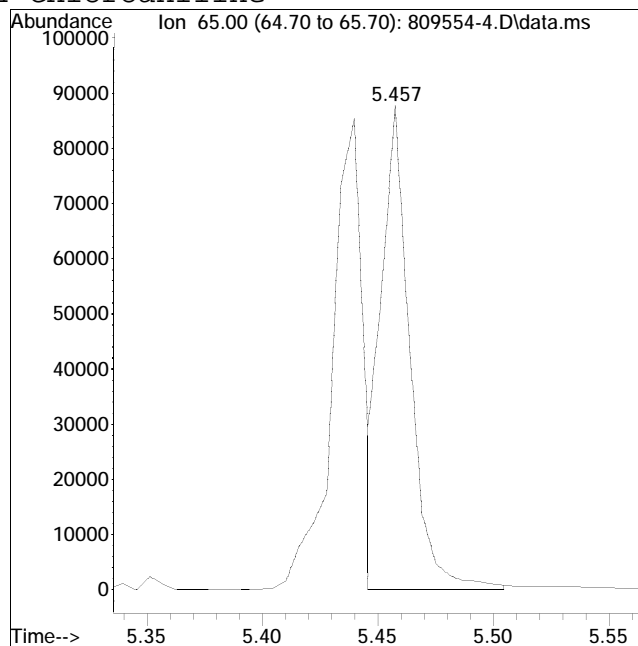
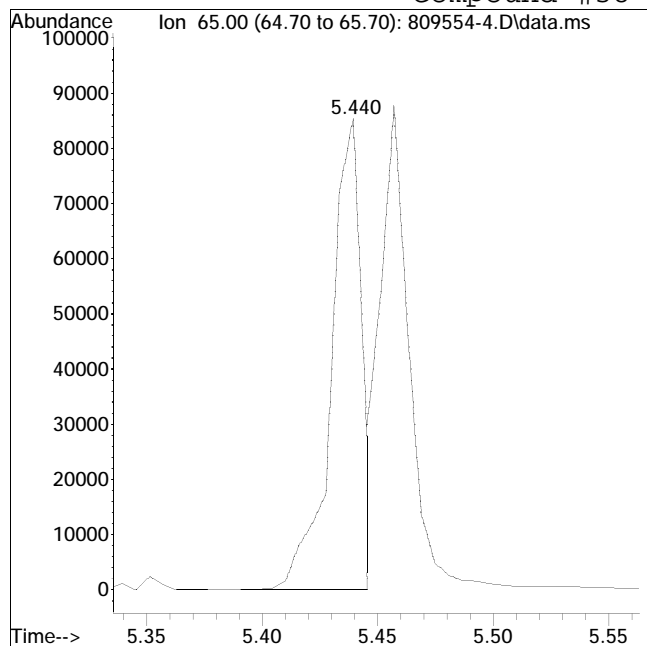
Manual Peak Response = 110035 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV109\230801n\ QMethod : FS230531SV109.m
Data File : 809554-4.D Operator : SV109:slr
Date Inj'd : 8/2/2023 5:57 am Instrument : SV109
Sample : WG1809554-4,32,,ASK Quant Date : 8/2/2023 6:16 am

Compound #38: 4-Chloroaniline



Original Peak Response = 80126

Manual Peak Response = 75589 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 809554-7.D
 Acq On : 2 Aug 2023 7:07 am
 Operator : SV109:slr
 Sample : WG1809554-7,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 08 10:48:41 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 07:26:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.098	152	258596	40.000	ug/ml	0.00
Standard Area 1 = 268648			Recovery =	96.26%		
27) IS2_1,4-Dichlorobenzen...	4.098	152	258596	40.000	ug/ml	0.00
Standard Area 3 = 292844			Recovery =	88.31%		
35) IS1_Naphthalene-d8	5.345	136	1035886	40.000	ug/ml	0.00
Standard Area 1 = 1035506			Recovery =	100.04%		
55) IS2_Naphthalene-d8	5.345	136	1035886	40.000	ug/ml	0.00
Standard Area 3 = 1138171			Recovery =	91.01%		
63) IS1_Acenaphthene-d10	7.045	164	591565	40.000	ug/ml	0.00
Standard Area 1 = 585086			Recovery =	101.11%		
83) IS2_Acenaphthene-d10	7.045	164	591565	40.000	ug/ml	0.00
Standard Area 3 = 646970			Recovery =	91.44%		
86) IS3_Acenaphthene-d10	7.045	164	591565	40.000	ug/ml	0.00
Standard Area 2 = 587706			Recovery =	100.66%		
88) IS1_Phenanthrene-d10	8.469	188	1266901	40.000	ug/ml	0.00
Standard Area 1 = 1270325			Recovery =	99.73%		
100) IS3_Phenanthrene-d10	8.469	188	1266901	40.000	ug/ml	0.00
Standard Area 2 = 1295083			Recovery =	97.82%		
104) IS1_Chrysene-d12	11.116	240	1136202	40.000	ug/ml	0.00
Standard Area 1 = 1162834			Recovery =	97.71%		
113) IS1_Perylene-d12	13.016	264	1234675	40.000	ug/ml	0.00
Standard Area 1 = 1262838			Recovery =	97.77%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.799	112	173340	25.014	ug/ml	0.00
Spiked Amount 50.000		Range 30 - 130	Recovery =	50.03%		
7) Phenol-d6	3.822	99	155363	16.648	ug/ml	0.00
Spiked Amount 50.000		Range 30 - 130	Recovery =	33.30%		
19) Nitrobenzene-d5	4.657	82	149616	15.943	ug/ml	0.00
Spiked Amount 25.000		Range 40 - 140	Recovery =	63.77%		
46) 2-Fluorobiphenyl	6.428	172	365799	17.690	ug/ml	0.00
Spiked Amount 25.000		Range 40 - 140	Recovery =	70.76%		
79) 2,4,6-Tribromophenol	7.810	330	133266	42.228	ug/ml	0.00
Spiked Amount 50.000		Range 30 - 130	Recovery =	84.46%		
96) 4-Terphenyl-d14	10.045	244	506099	16.232	ug/ml	0.00
Spiked Amount 25.000		Range 40 - 140	Recovery =	64.93%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 809554-7.D
 Acq On : 2 Aug 2023 7:07 am
 Operator : SV109:slr
 Sample : WG1809554-7,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 08 10:48:41 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 07:26:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Target Compounds							
6) 2-Chlorophenol	3.898	128	209227	24.418	ug/ml		97
8) Phenol	3.840	94	136236	13.572	ug/ml#		63
9) Bis(2-chloroethyl)ether	3.875	93	188841	23.467	ug/ml		90
14) Bis(2-chloroisopropyl)...	4.422	45	257266	24.191	ug/ml#		78
15) 2-Methylphenol	4.434	108	175614	23.734	ug/ml		100
17) n-Nitrosodi-n-propylamine	4.551	70	156332	23.858	ug/ml		98
18) 3-Methylphenol/4-Methy...	4.593	108	194569	25.066	ug/ml#		24
20) Nitrobenzene	4.681	77	233030	25.234	ug/ml		98
21) Isophorone	4.928	82	421336	23.632	ug/ml		99
22) 2-Nitrophenol	4.998	139	124535	27.061	ug/ml		97
23) 2,4-Dimethylphenol	5.098	107	207612	24.192	ug/ml		96
24) Bis(2-chloroethoxy)met...	5.175	93	262963	24.209	ug/ml#		96
25) 2,4-Dichlorophenol	5.251	162	206959	27.697	ug/ml		98
28) Benzaldehyde	3.657	105	178439	33.526	ug/ml		98
29) Acetophenone	4.522	105	323989	27.945	ug/ml		94
38) 4-Chloroaniline	5.457	65	76282M3	22.833	ug/ml		
40) p-Chloro-m-cresol	5.981	107	215476	26.718	ug/ml		98
43) Hexachlorocyclopentadiene	6.222	237	66592	18.285	ug/ml		99
44) 2,4,6-Trichlorophenol	6.351	196	163398	29.058	ug/ml		99
45) 2,4,5-Trichlorophenol	6.387	196	180157	28.914	ug/ml		99
48) 2-Nitroaniline	6.640	138	161840	27.100	ug/ml		97
51) Dimethyl phthalate	6.845	163	572782	25.744	ug/ml		100
53) 2,6-Dinitrotoluene	6.892	165	125193	26.322	ug/ml#		80
60) Caprolactam	5.781	55	35290	9.156	ug/ml#		84
61) 1,2,4,5-Tetrachloroben...	6.222	216	238759	26.712	ug/ml		98
62) Biphenyl	6.516	154	586484	27.644	ug/ml		99
64) 3-Nitroaniline	7.039	138	122360	21.912	ug/ml#		96
66) 2,4-Dinitrophenol	7.163	184	66457	26.273	ug/ml		92
67) Dibenzofuran	7.245	168	698296	25.560	ug/ml		99
68) 2,4-Dinitrotoluene	7.281	165	176289	27.712	ug/ml#		79
69) 4-Nitrophenol	7.275	65	73397	17.751	ug/ml		92
71) 2,3,4,6-Tetrachlorophenol	7.392	232	147246	26.559	ug/ml		99
72) Diethyl phthalate	7.534	149	626569	24.782	ug/ml		100
74) 4-Chlorophenyl phenyl ...	7.604	204	273493	25.600	ug/ml		98
75) 4-Nitroaniline	7.628	138	128723	23.541	ug/ml		90
76) 4,6-Dinitro-o-cresol	7.675	198	99573	30.609	ug/ml#		89

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 809554-7.D
 Acq On : 2 Aug 2023 7:07 am
 Operator : SV109:slr
 Sample : WG1809554-7,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 08 10:48:41 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 07:26:43 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

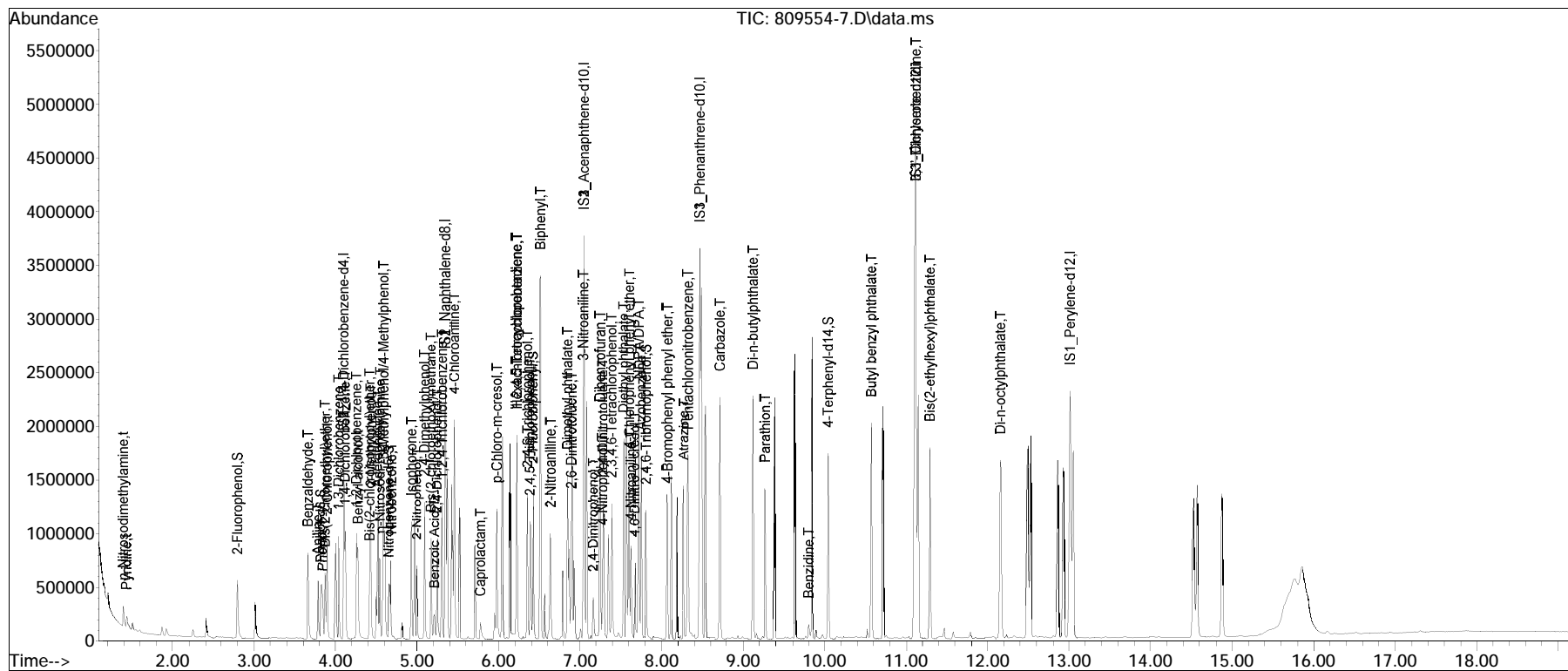
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) NDPA/DPA	7.722	169	479014	25.229	ug/ml	99
80) 4-Bromophenyl phenyl e...	8.069	248	170553	25.773	ug/ml	97
87) Atrazine	8.275	200	162508	26.117	ug/ml	99
91) Carbazole	8.716	167	829904	25.525	ug/ml	99
92) Di-n-butylphthalate	9.122	149	1106222	25.113	ug/ml	100
97) Butyl benzyl phthalate	10.575	149	502596	24.995	ug/ml	97
106) 3,3'-Dichlorobenzidine	11.116	252	318220	21.032	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	11.292	149	735694	24.814	ug/ml	98
109) Di-n-octylphthalate	12.157	149	1275589	24.397	ug/ml#	93

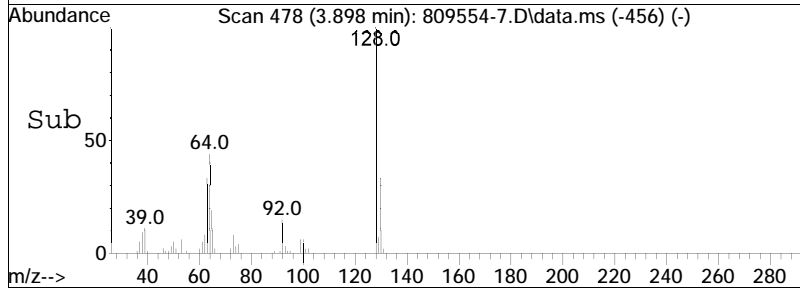
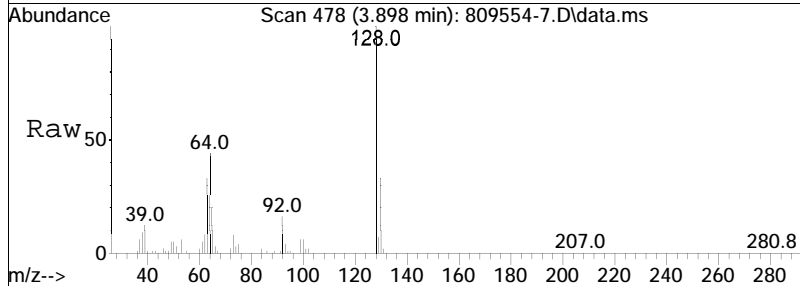
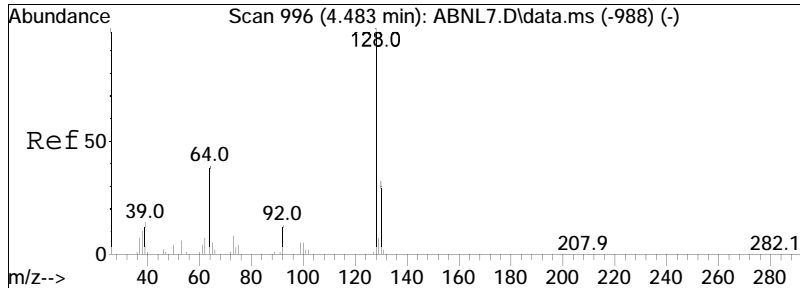
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\8270\SV109\230801n\
 Data File : 809554-7.D
 Acq On : 2 Aug 2023 7:07 am
 Operator : SV109:slr
 Sample : WG1809554-7,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 08 10:48:41 2023
 Quant Method : I:\8270\sv109\230801n\Fs230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 07:26:43 2023
 Response via : Initial Calibration

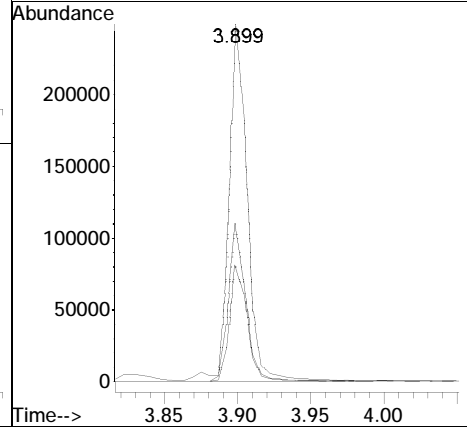
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA801n.D•

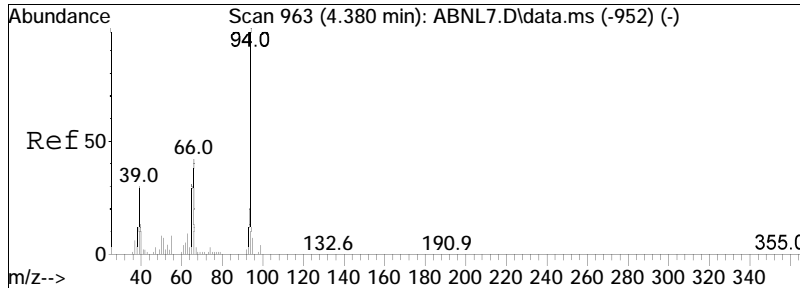




#6
 2-Chlorophenol
 Concen: 24.42 ug/ml
 RT: 3.898 min Scan# 478
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

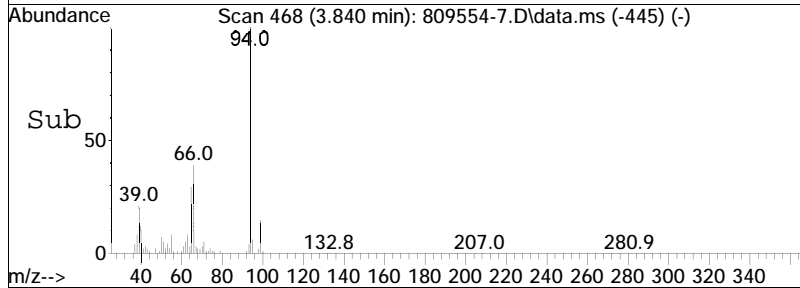
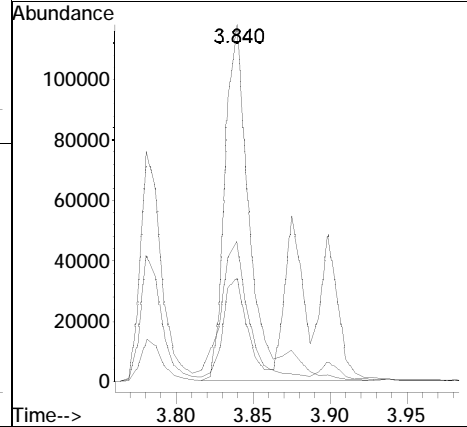
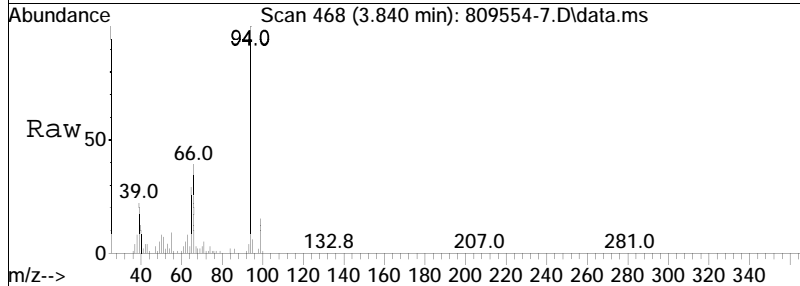
Tgt Ion	Ratio	Lower	Upper
128	100		
64	45.0	38.1	57.1
130	32.6	25.7	38.5

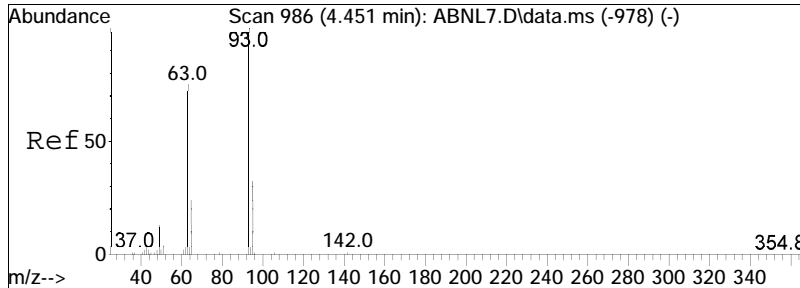




#8
 Phenol
 Concen: 13.57 ug/ml
 RT: 3.840 min Scan# 468
 Delta R.T. 0.009 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

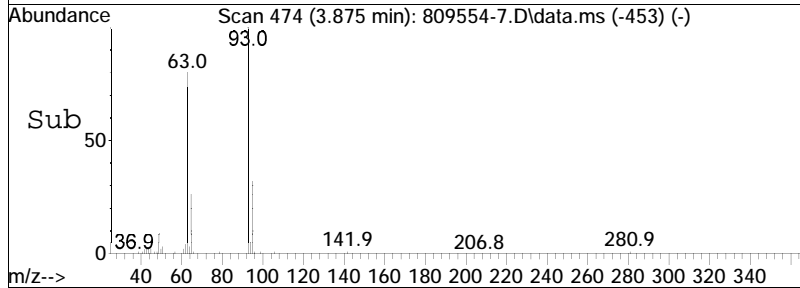
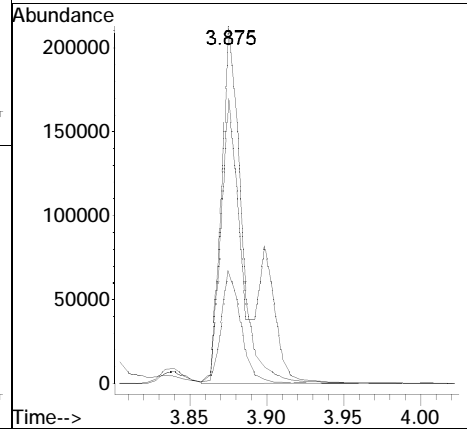
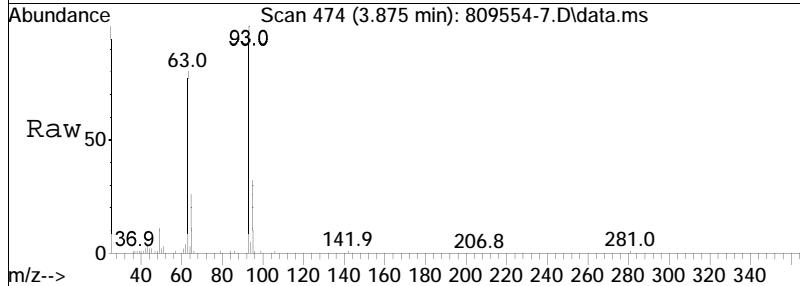
Tgt Ion:	94	Resp:	136236
Ion Ratio	Lower	Upper	
94	100		
65	28.2	40.7	61.1#
66	44.3	64.1	96.1#

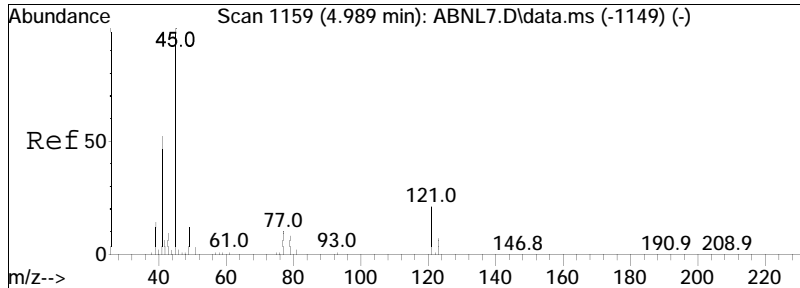




#9
 Bis(2-chloroethyl)ether
 Concen: 23.47 ug/ml
 RT: 3.875 min Scan# 474
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

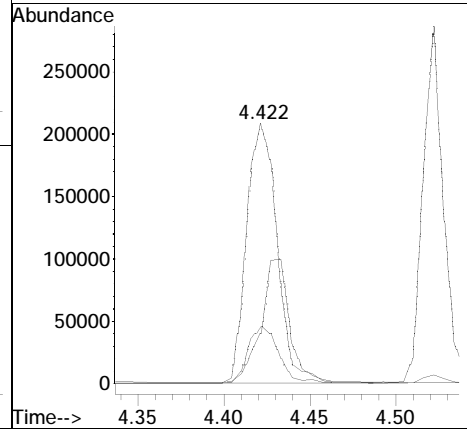
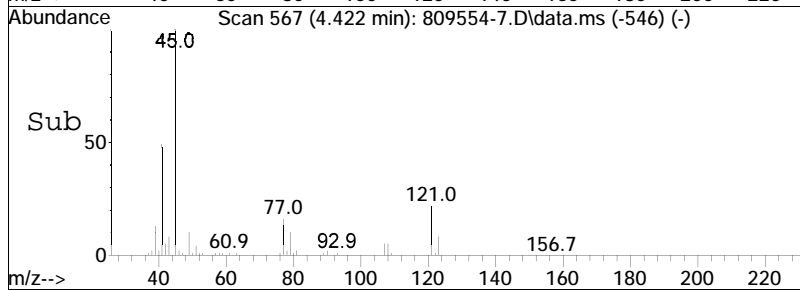
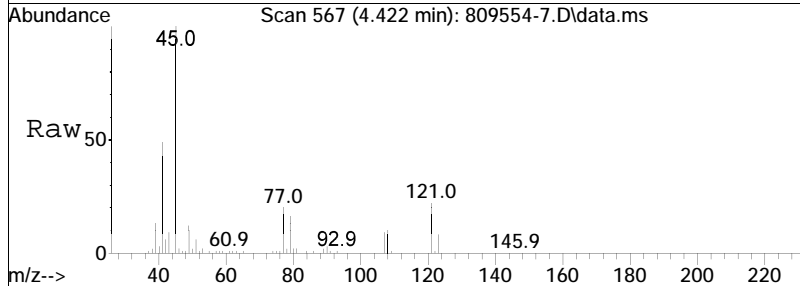
Tgt Ion	Resp	Lower	Upper
93	188841		
93	100		
63	80.4	73.7	110.5
95	32.0	26.9	40.3

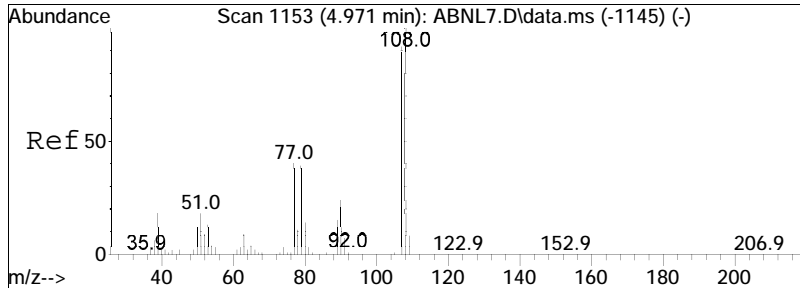




#14
 Bis(2-chloroisopropyl) ether
 Concen: 24.19 ug/ml
 RT: 4.422 min Scan# 567
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

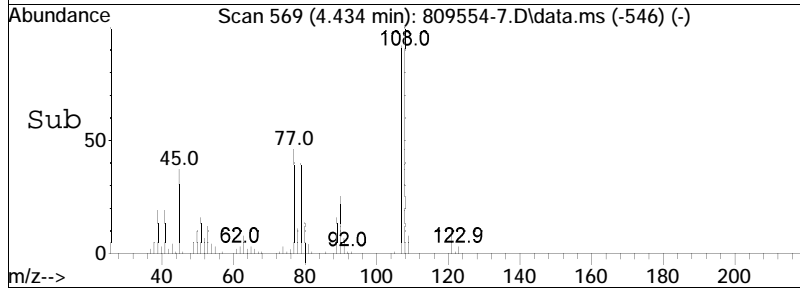
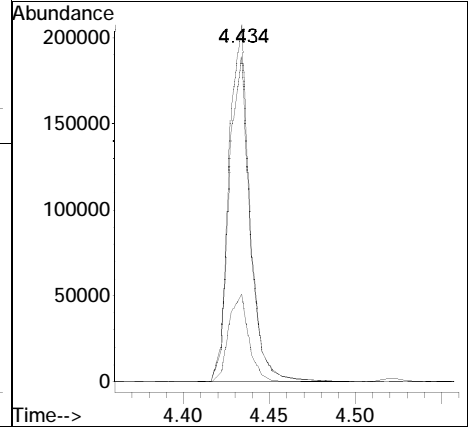
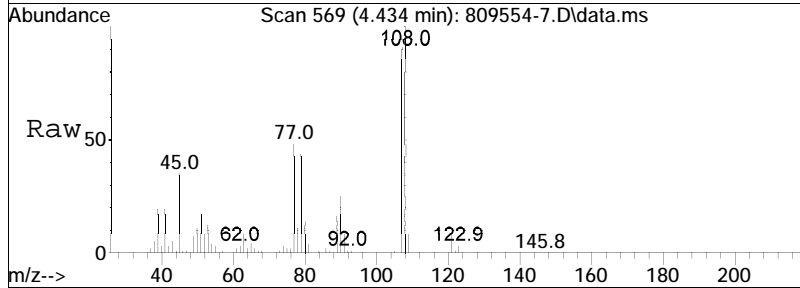
Tgt Ion	Resp	Lower	Upper
45	100		
121	22.3	12.6	19.0#
77	44.6	24.6	37.0#

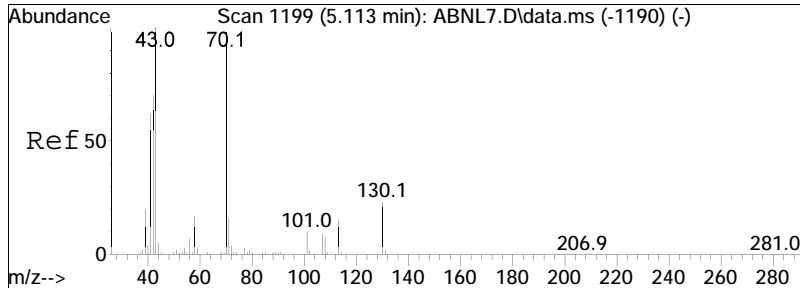




#15
 2-Methylphenol
 Concen: 23.73 ug/ml
 RT: 4.434 min Scan# 569
 Delta R.T. 0.009 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

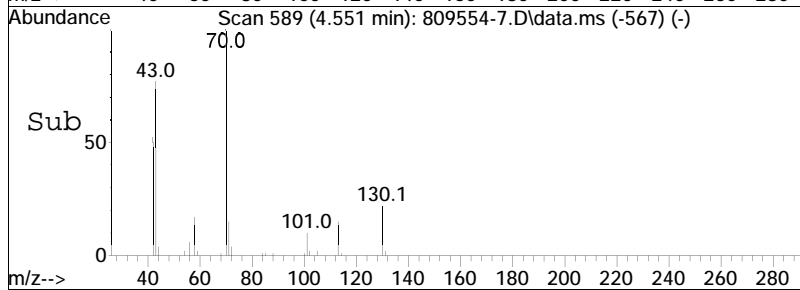
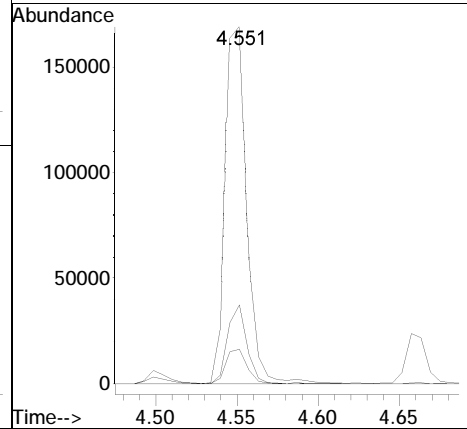
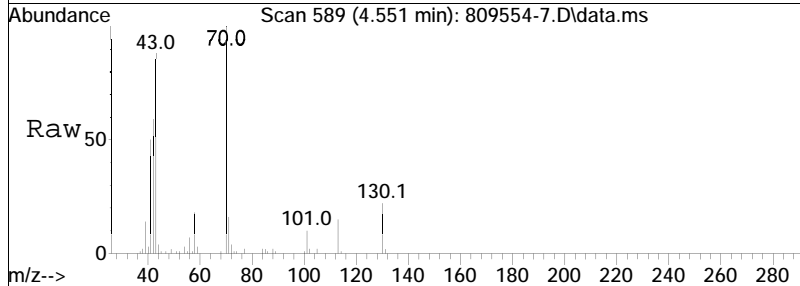
Tgt Ion	Ratio	Lower	Upper
108	100		
107	91.1	72.6	108.8
90	24.3	19.2	28.8

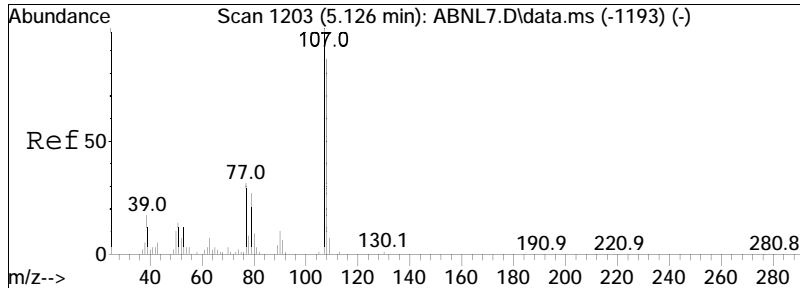




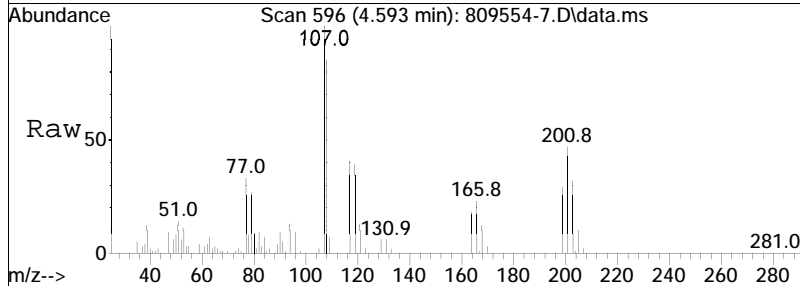
#17
 n-Nitrosodi-n-propylamine
 Concen: 23.86 ug/ml
 RT: 4.551 min Scan# 589
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

Tgt Ion:	Resp:	Lower	Upper
70	156332		
130	19.8	16.6	24.8
101	9.6	7.4	11.0

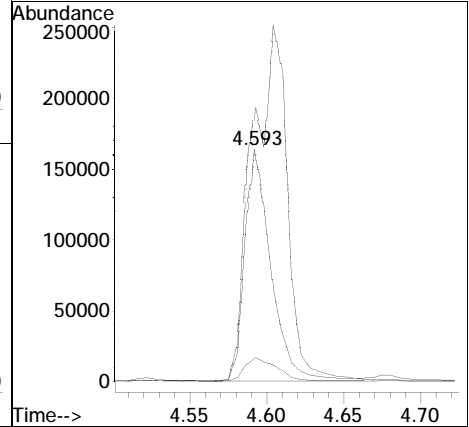
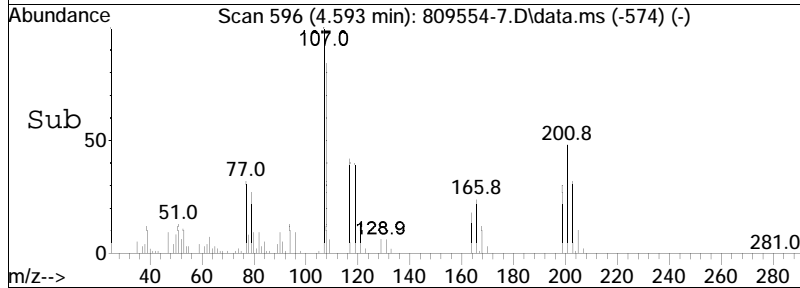


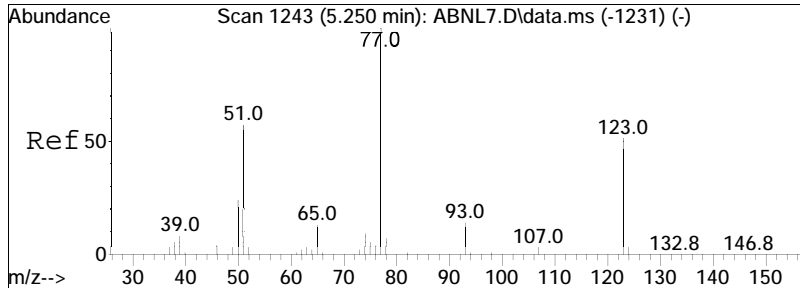


#18
 3-Methylphenol/4-Methylphenol
 Concen: 25.07 ug/ml
 RT: 4.593 min Scan# 596
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am



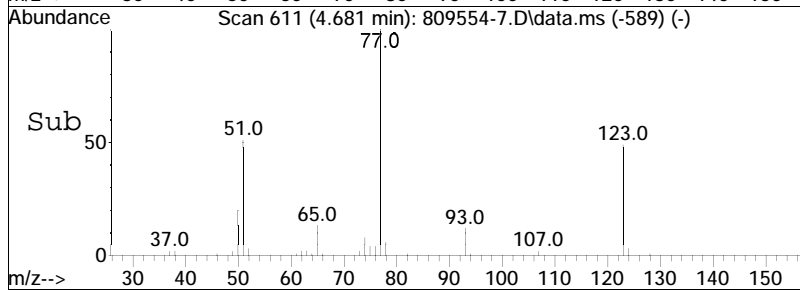
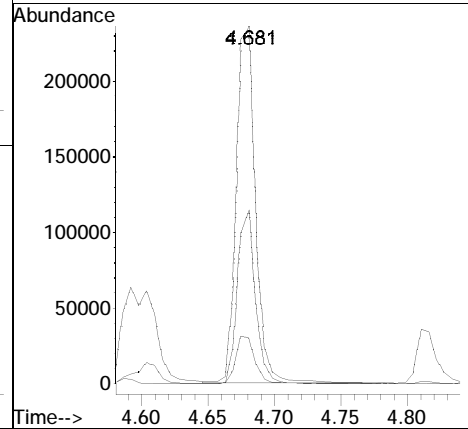
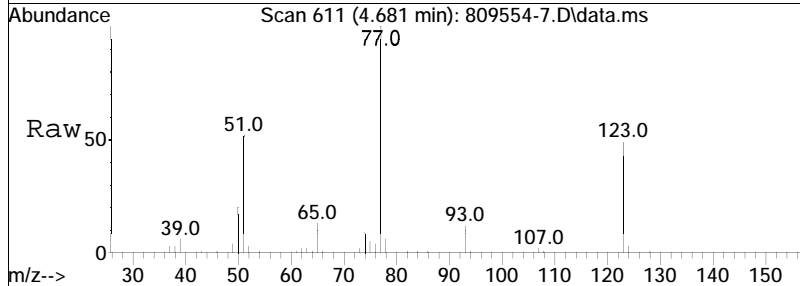
Tgt Ion	Resp	Lower	Upper
108	194569		
107	202.8	91.0	136.6#
90	13.0	8.7	13.1

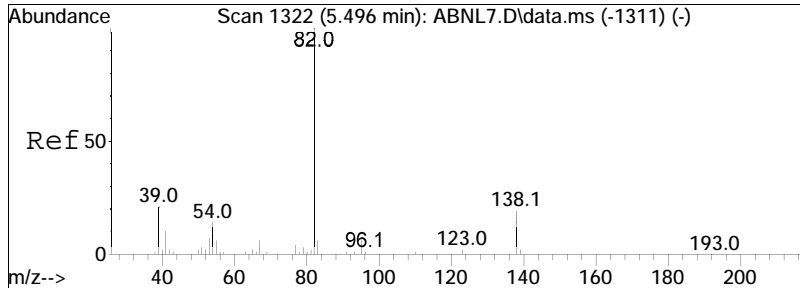




#20
 Nitrobenzene
 Concen: 25.23 ug/ml
 RT: 4.681 min Scan# 611
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

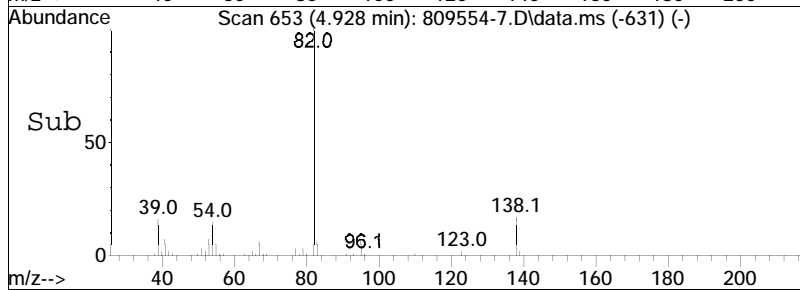
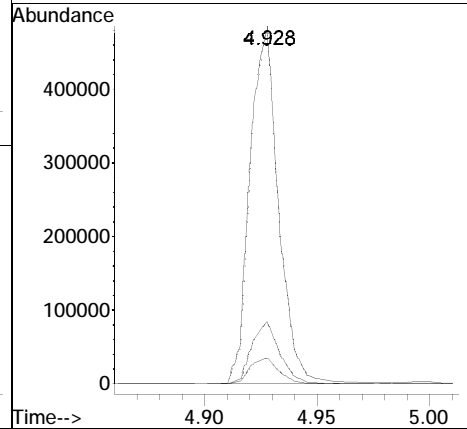
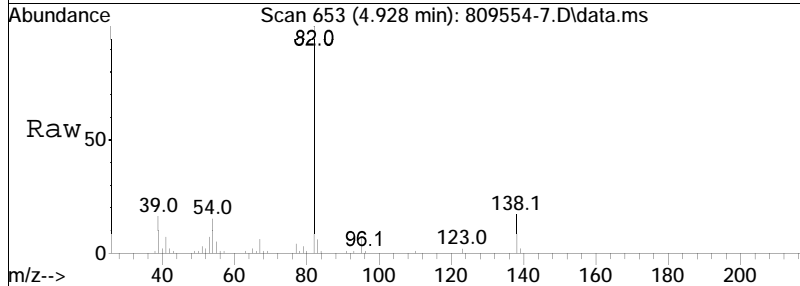
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
77	100		
123	46.5	38.5	57.7
65	14.1	11.4	17.0

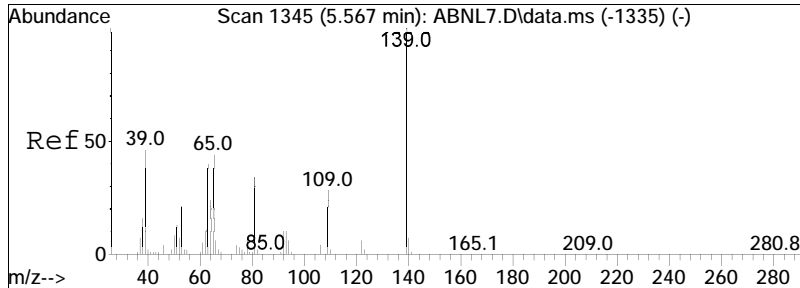




#21
 Isophorone
 Concen: 23.63 ug/ml
 RT: 4.928 min Scan# 653
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

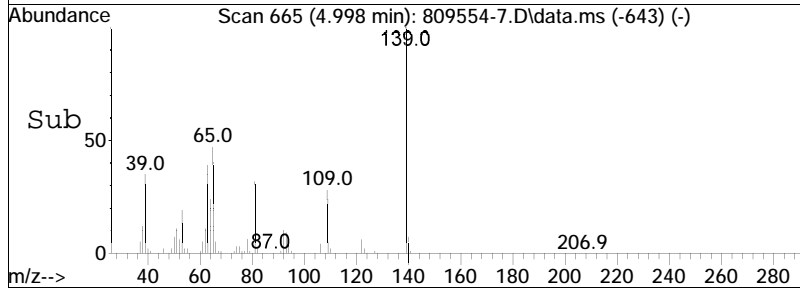
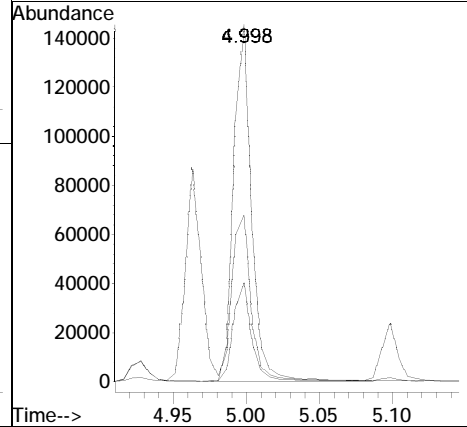
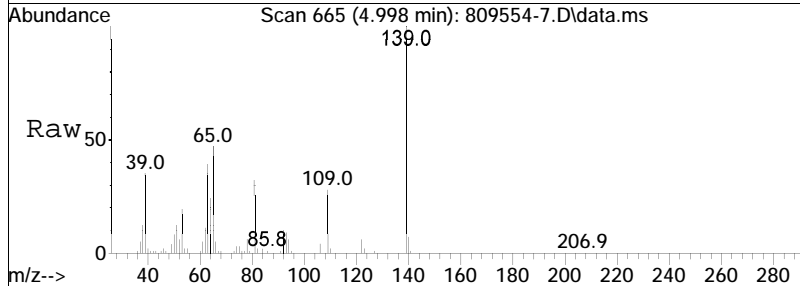
Tgt Ion	Resp	Lower	Upper
82	421336		
138	17.2	13.6	20.4
95	7.6	5.1	7.7

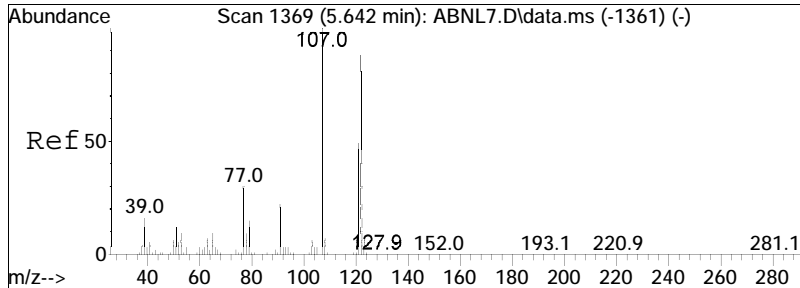




#22
 2-Nitrophenol
 Concen: 27.06 ug/ml
 RT: 4.998 min Scan# 665
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

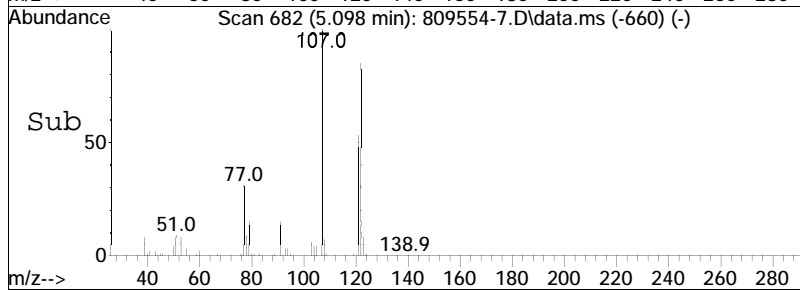
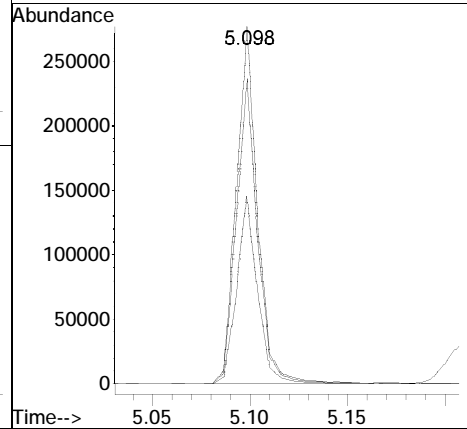
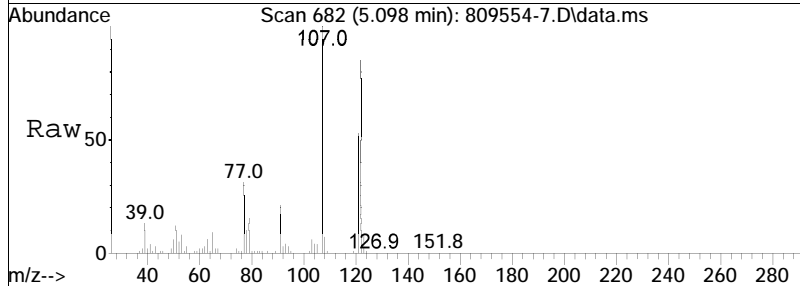
Tgt Ion	Ratio	Lower	Upper
139	100		
109	28.5	19.8	29.6
65	49.8	39.6	59.4

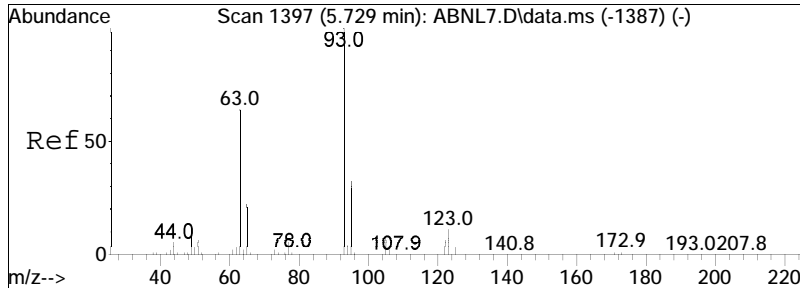




#23
 2,4-Dimethylphenol
 Concen: 24.19 ug/ml
 RT: 5.098 min Scan# 682
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

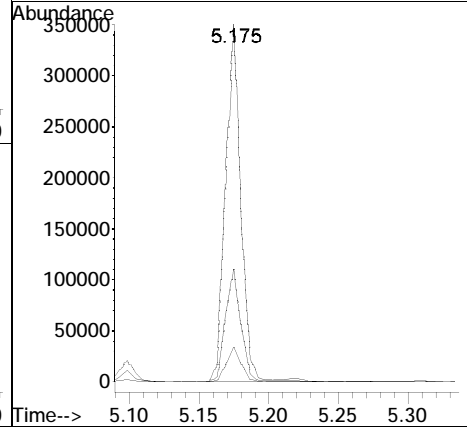
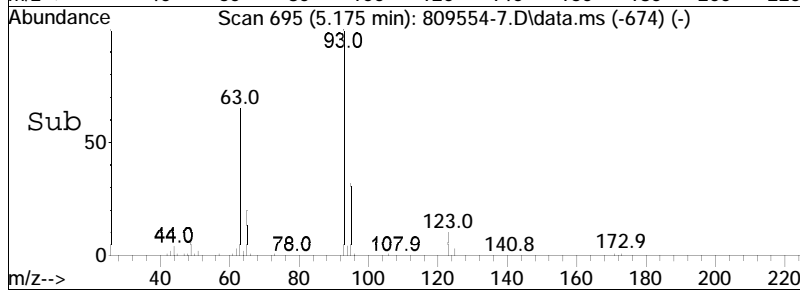
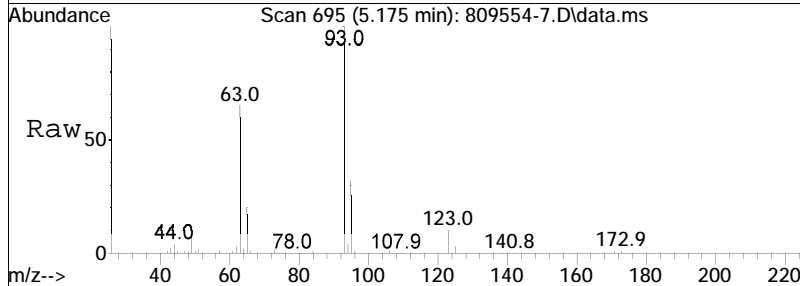
Tgt Ion	Resp	Lower	Upper
107	100		
121	52.0	43.0	64.4
122	85.5	71.8	107.8

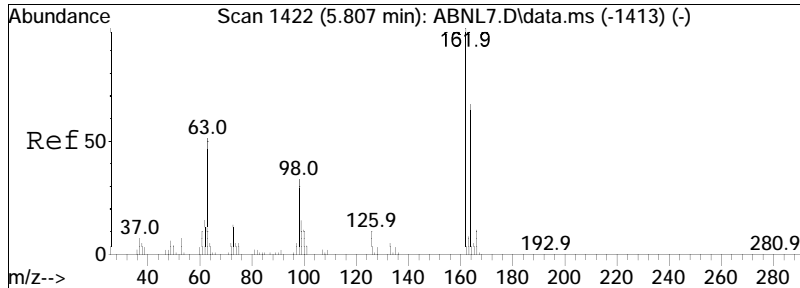




#24
 Bis(2-chloroethoxy)methane
 Concen: 24.21 ug/ml
 RT: 5.175 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

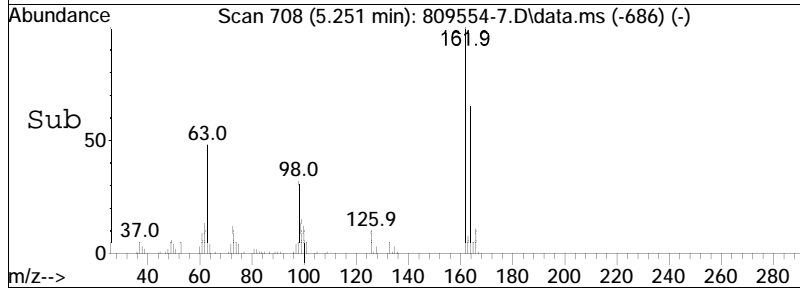
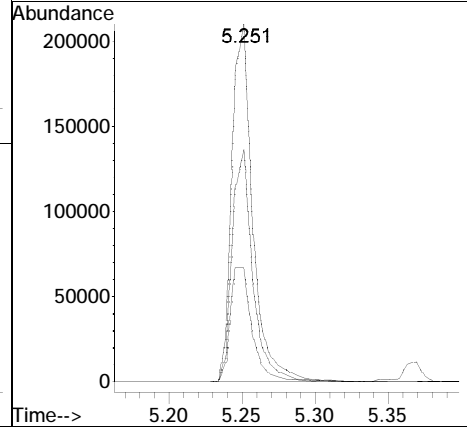
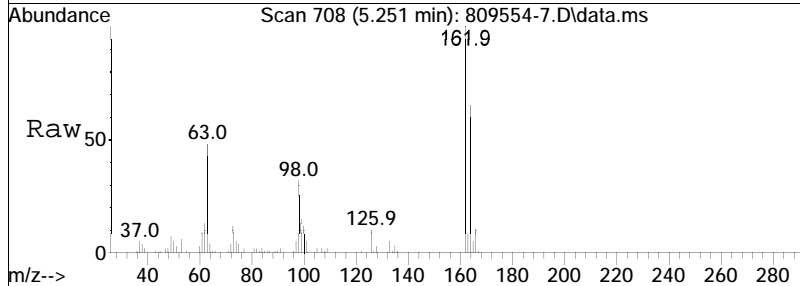
Tgt Ion:	93	Resp:	262963
Ion Ratio	Lower	Upper	
93	100		
95	32.1	26.6	40.0
123	9.6	11.0	16.4#

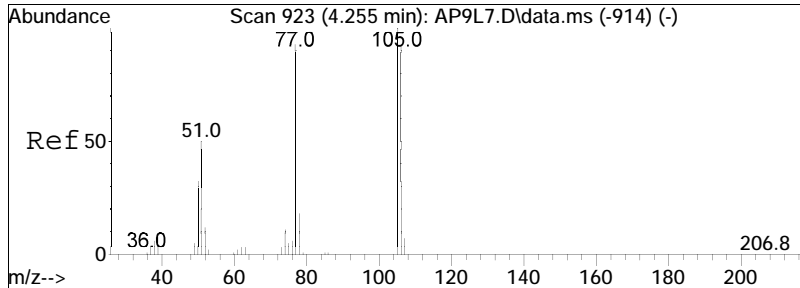




#25
 2,4-Dichlorophenol
 Concen: 27.70 ug/ml
 RT: 5.251 min Scan# 708
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

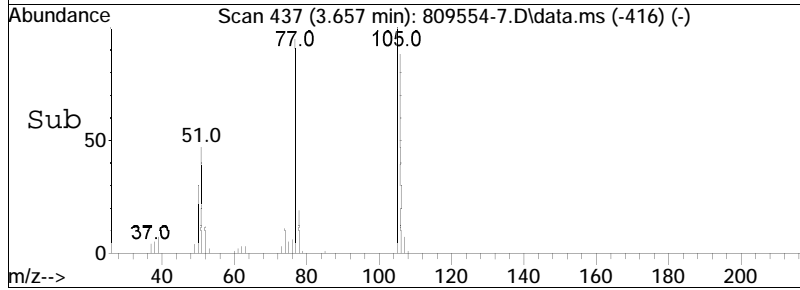
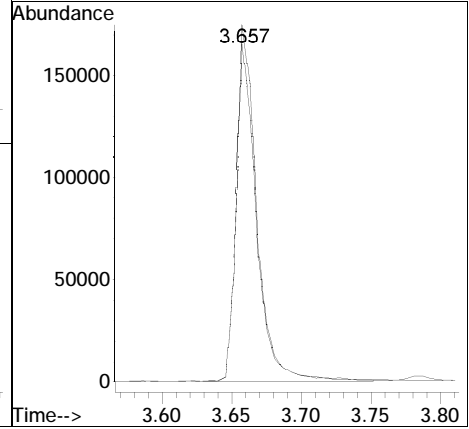
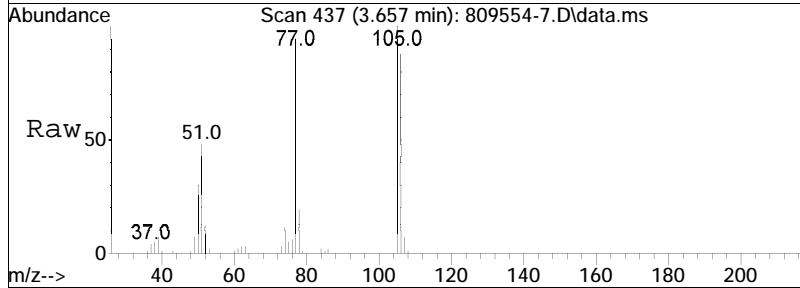
Tgt Ion	Resp	Lower	Upper
162	206959		
162	100		
164	64.5	51.6	77.4
98	33.6	29.4	44.2

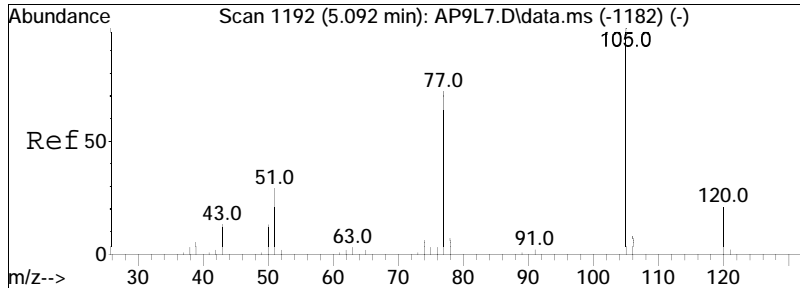




#28
 Benzaldehyde
 Concen: 33.53 ug/ml
 RT: 3.657 min Scan# 437
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

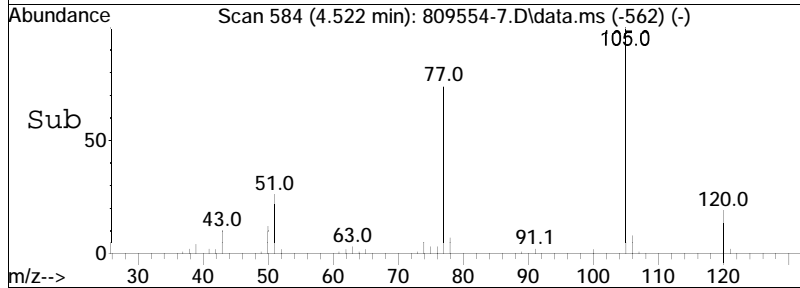
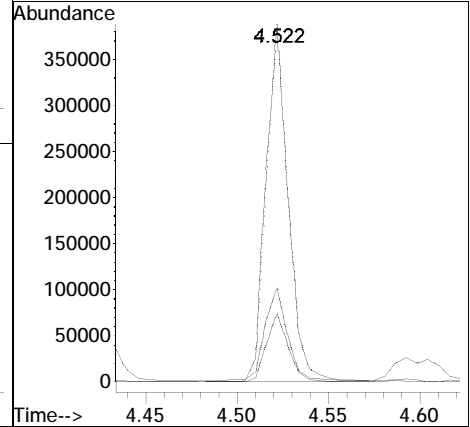
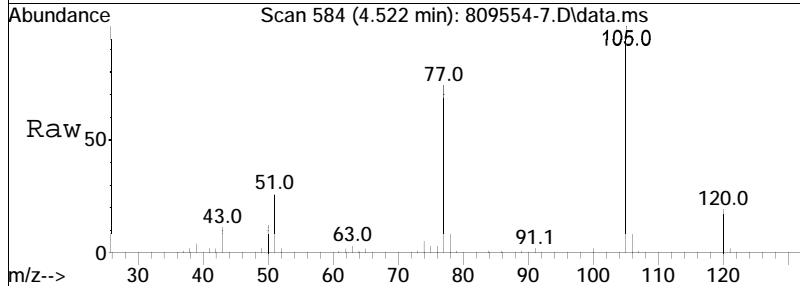
Tgt Ion	105	Resp	178439
Ion Ratio	Lower	Upper	
105	100		
77	93.7	76.9	115.3

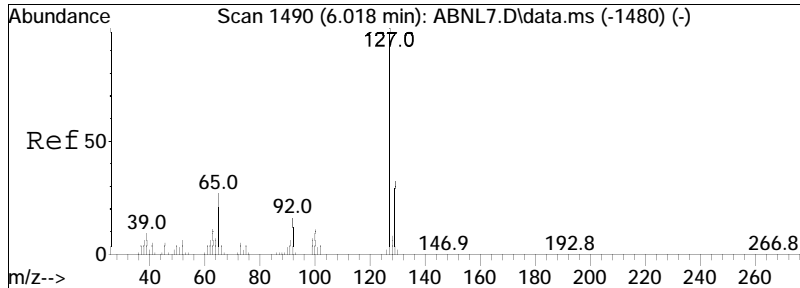




#29
 Acetophenone
 Concen: 27.94 ug/ml
 RT: 4.522 min Scan# 584
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

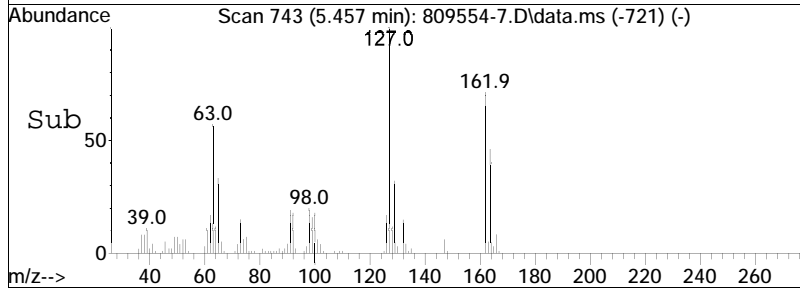
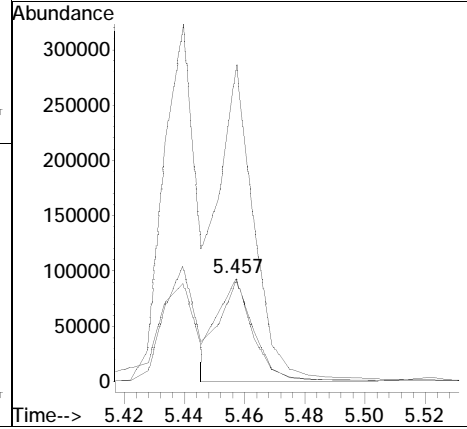
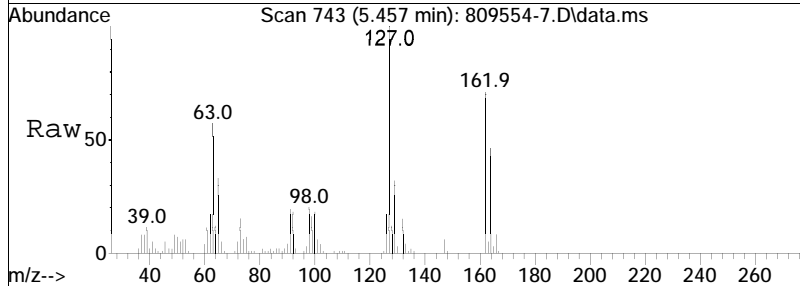
Tgt Ion	Resp	Lower	Upper
105	323989		
105	100		
120	19.1	15.9	23.9
51	26.6	25.2	37.8

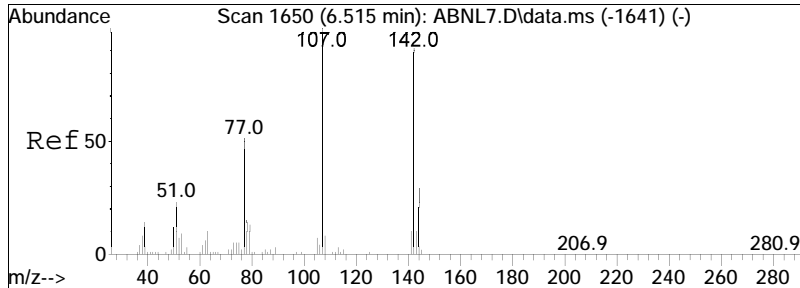




#38
 4-Chloroaniline
 Concen: 22.83 ug/ml M3
 RT: 5.457 min Scan# 743
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

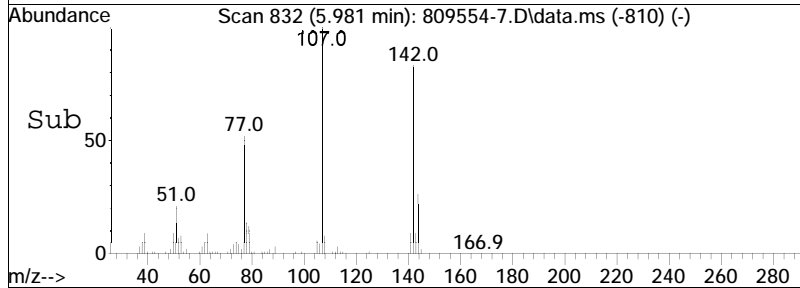
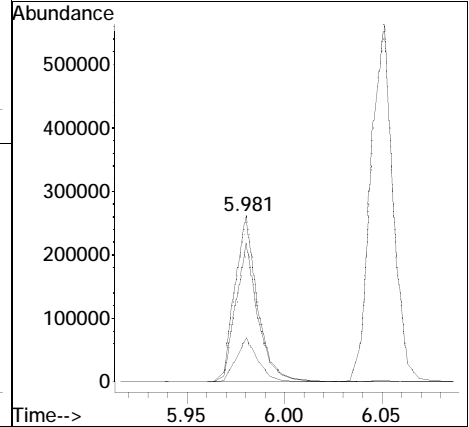
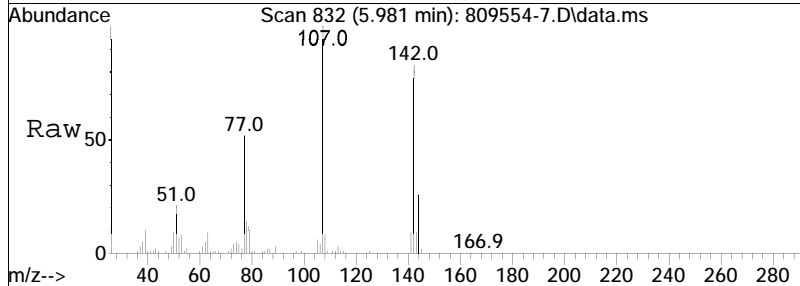
Tgt Ion:	Resp:	Lower	Upper
65	100		
127	394.9	274.4	411.6
129	125.0	88.2	132.4

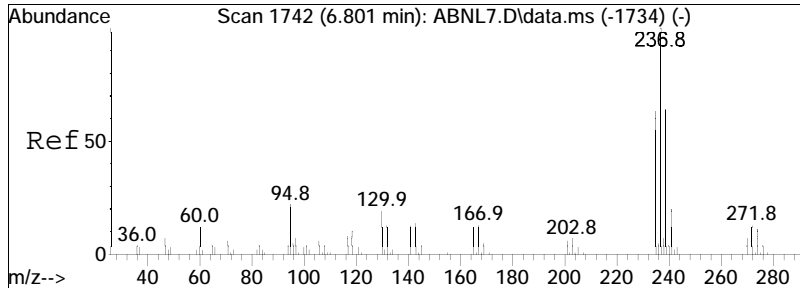




#40
 p-Chloro-m-cresol
 Concen: 26.72 ug/ml
 RT: 5.981 min Scan# 832
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

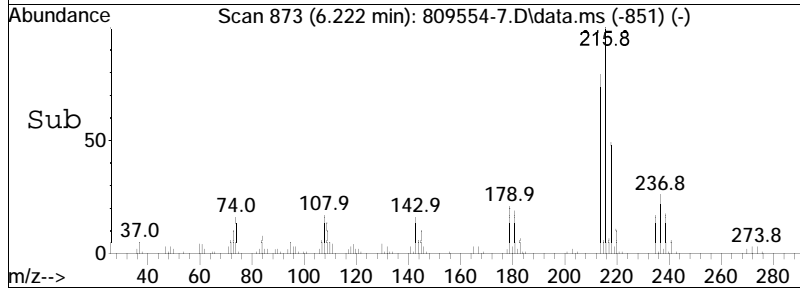
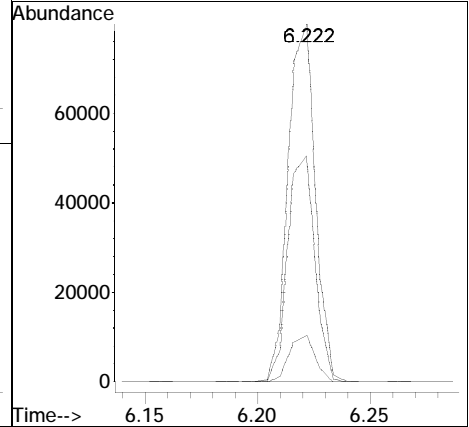
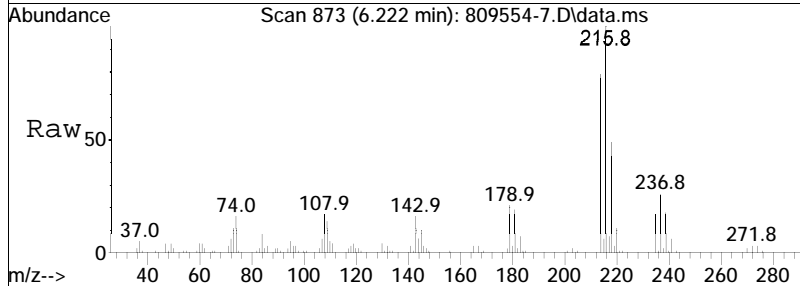
Tgt Ion	Resp	Lower	Upper
107	100		
144	25.9	21.5	32.3
142	81.7	66.8	100.2

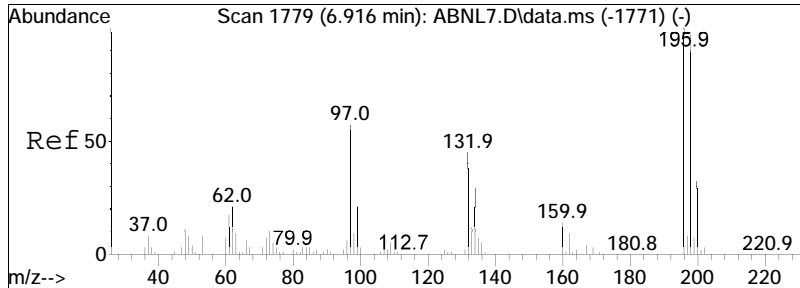




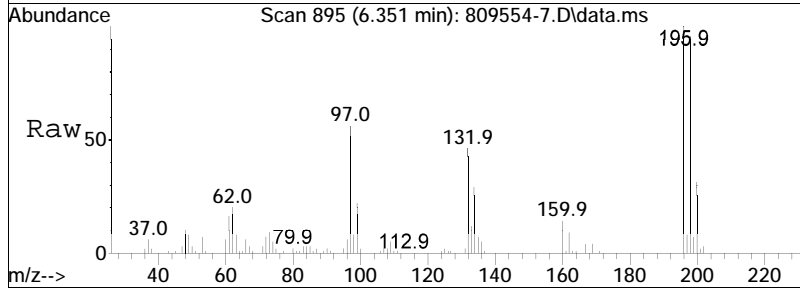
#43
 Hexachlorocyclopentadiene
 Concen: 18.29 ug/ml
 RT: 6.222 min Scan# 873
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

Tgt Ion	Resp	Lower	Upper
237	100		
235	63.0	49.5	74.3
272	12.5	10.2	15.4

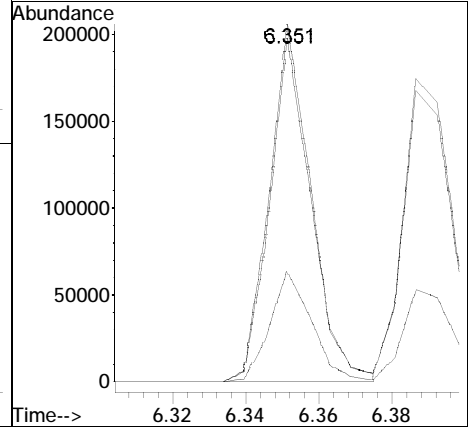
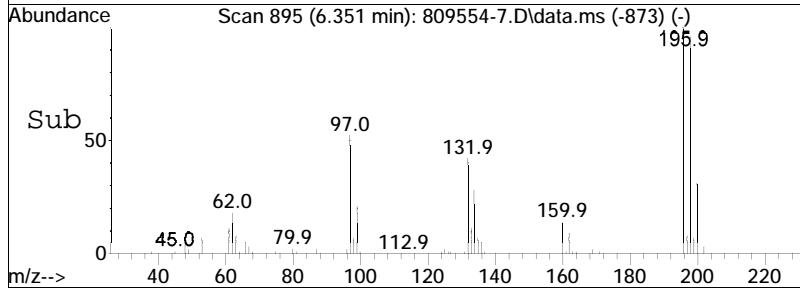


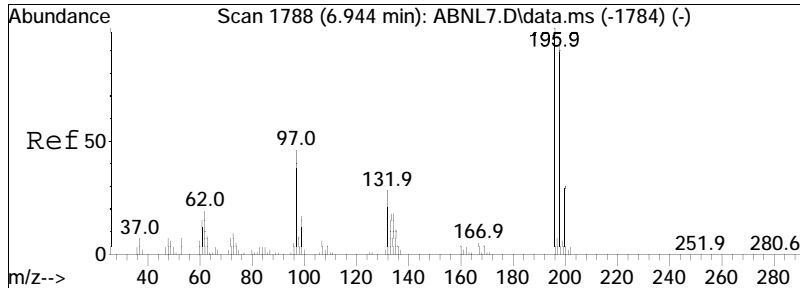


#44
 2,4,6-Trichlorophenol
 Concen: 29.06 ug/ml
 RT: 6.351 min Scan# 895
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

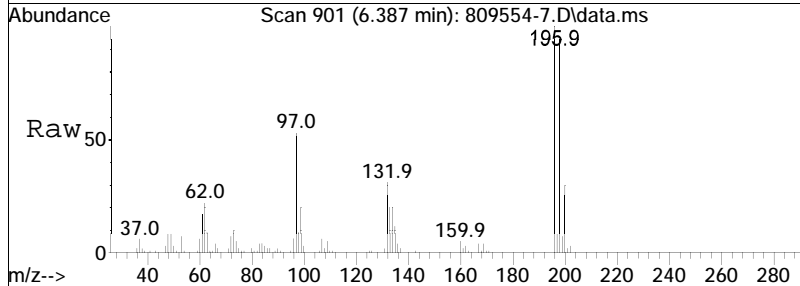


Tgt Ion	Resp	Lower	Upper
196	100		
198	95.1	76.4	114.6
200	31.0	24.4	36.6

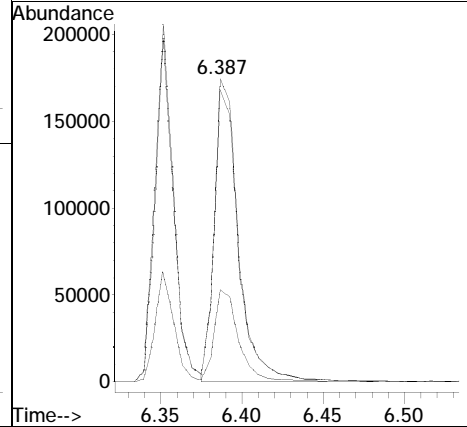
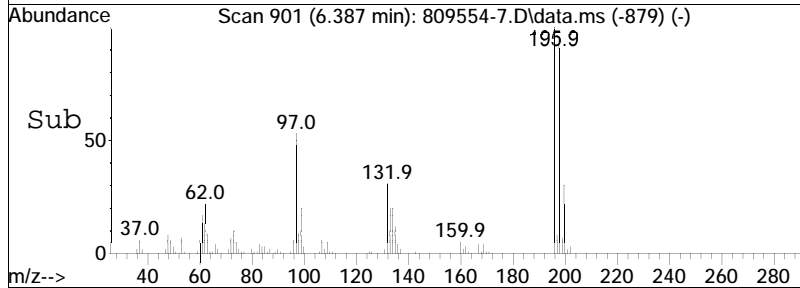


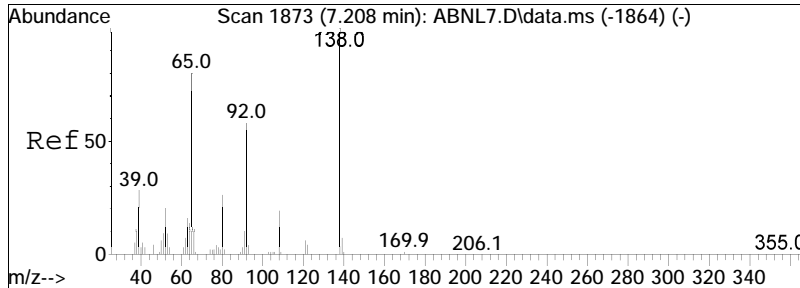


#45
 2,4,5-Trichlorophenol
 Concen: 28.91 ug/ml
 RT: 6.387 min Scan# 901
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am



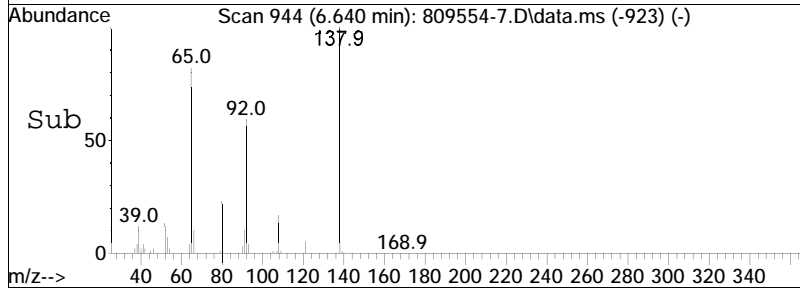
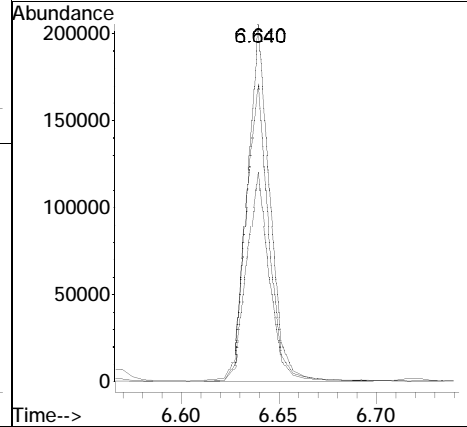
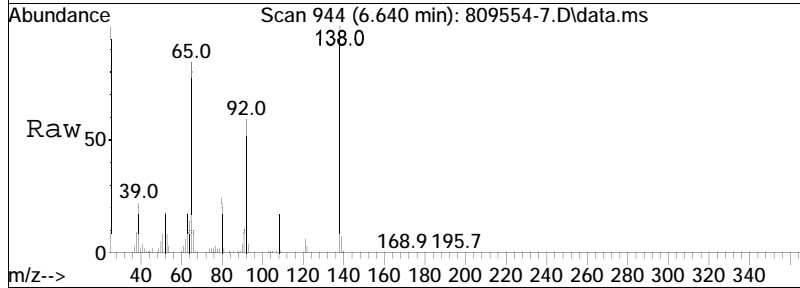
Tgt Ion	Resp	Lower	Upper
196	100		
200	30.9	25.2	37.8
198	95.6	77.7	116.5

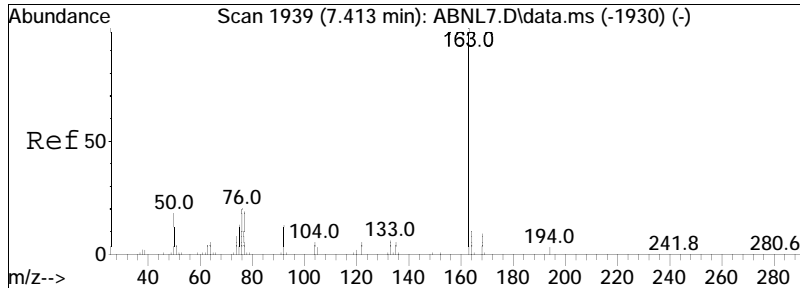




#48
 2-Nitroaniline
 Concen: 27.10 ug/ml
 RT: 6.640 min Scan# 944
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

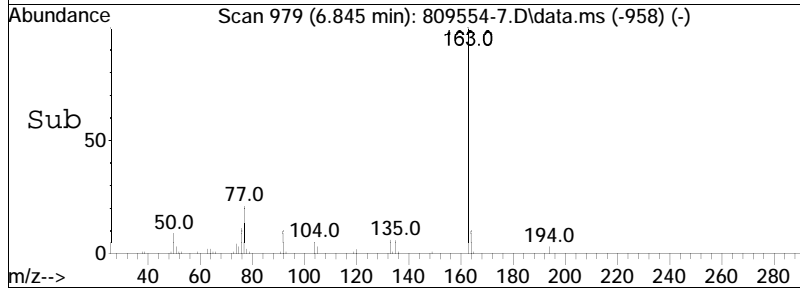
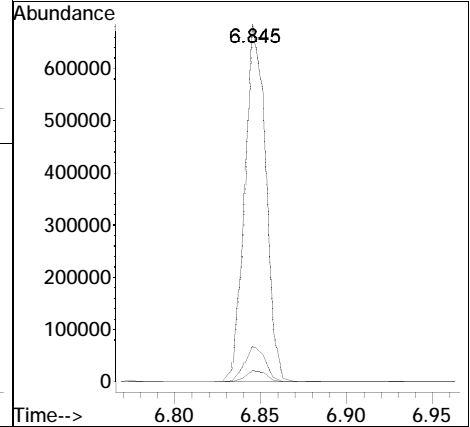
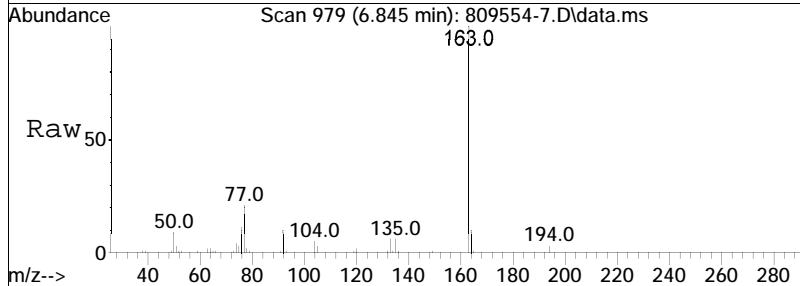
Tgt Ion	Resp	Lower	Upper
138	100		
92	60.2	48.0	72.0
65	86.2	72.8	109.2

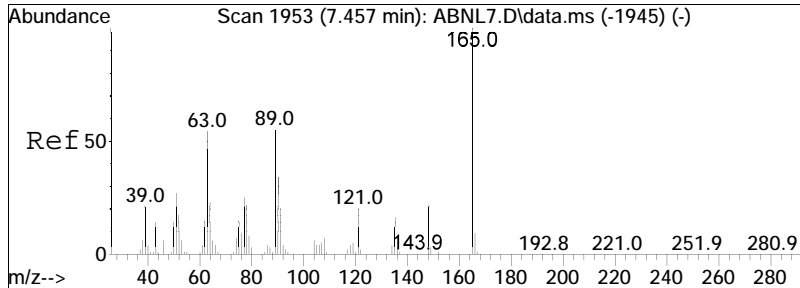




#51
 Dimethyl phthalate
 Concen: 25.74 ug/ml
 RT: 6.845 min Scan# 979
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

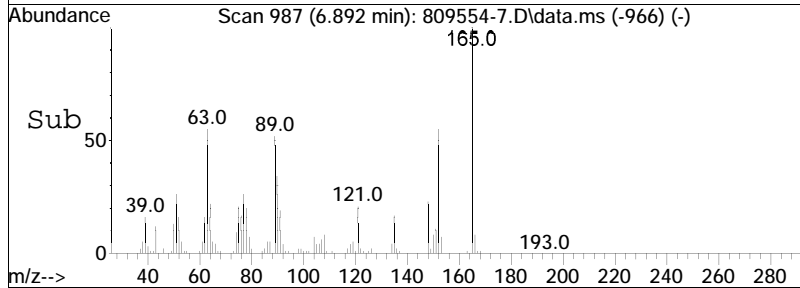
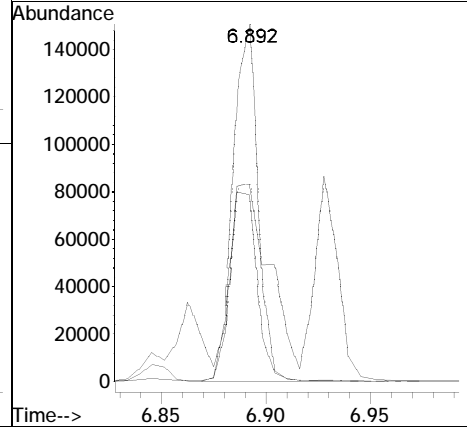
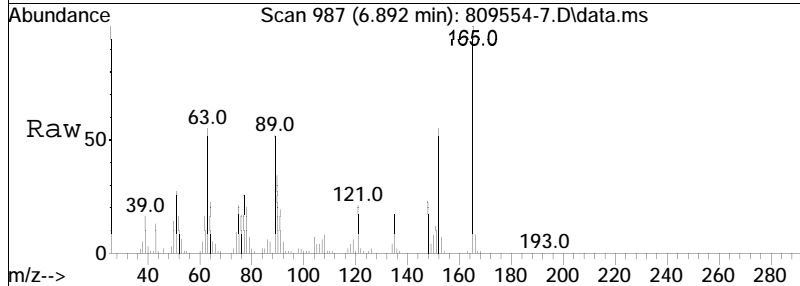
Tgt Ion	Resp	Lower	Upper
163	572782		
163	100		
194	3.2	2.4	3.6
164	10.0	8.1	12.1

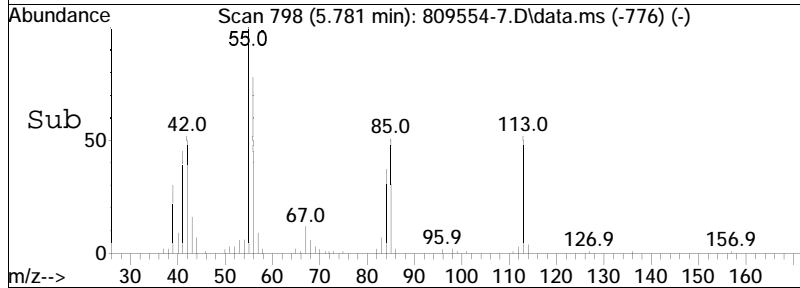
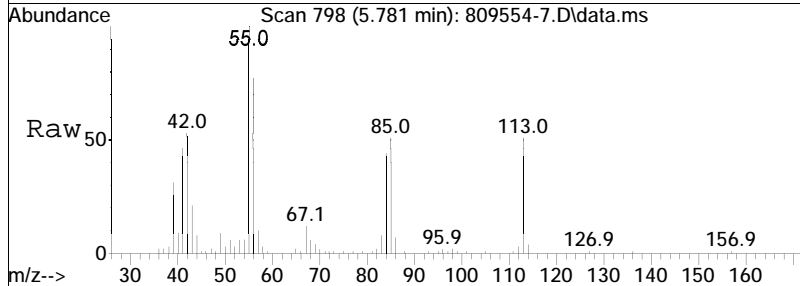
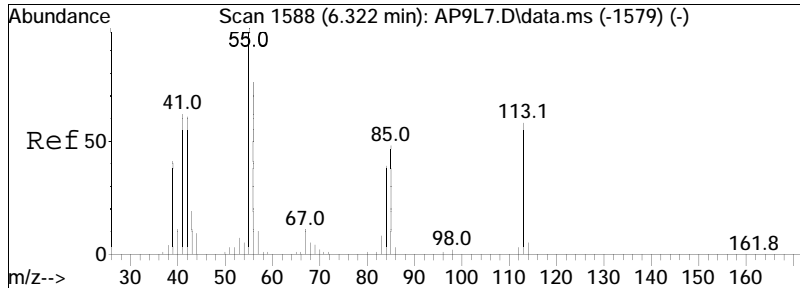




#53
 2,6-Dinitrotoluene
 Concen: 26.32 ug/ml
 RT: 6.892 min Scan# 987
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

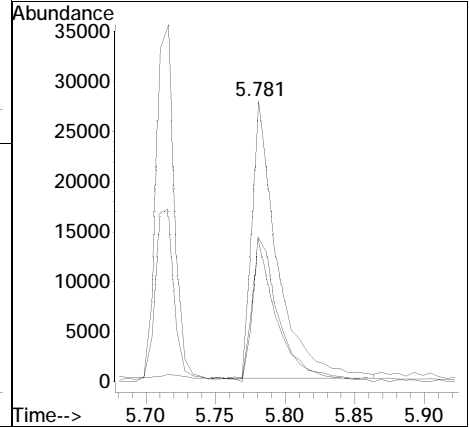
Tgt Ion	Ratio	Lower	Upper
165	100		
89	57.4	44.7	67.1
63	87.9	48.2	72.4#

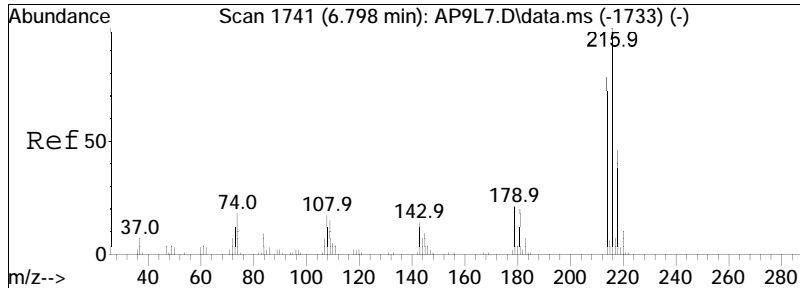




#60
 Caprolactam
 Concen: 9.16 ug/ml
 RT: 5.781 min Scan# 798
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

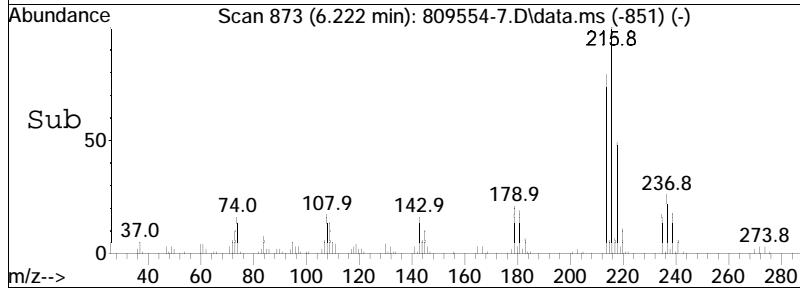
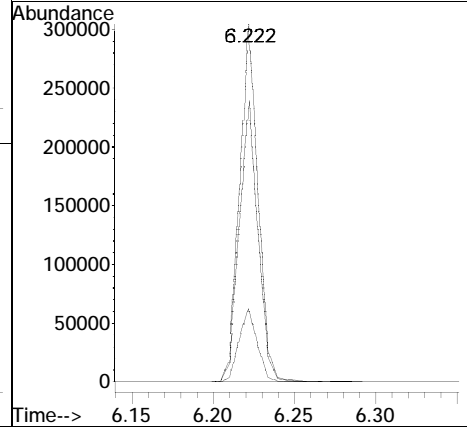
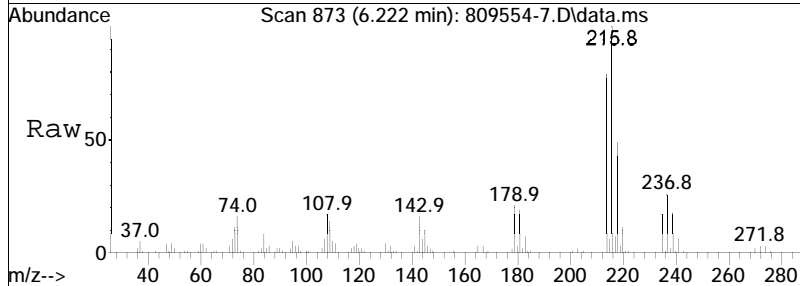
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
55	100		
85	48.2	30.9	46.3#
113	54.0	34.7	52.1#

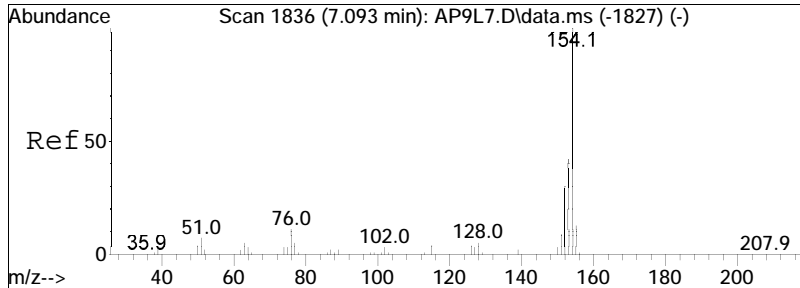




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 26.71 ug/ml
 RT: 6.222 min Scan# 873
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

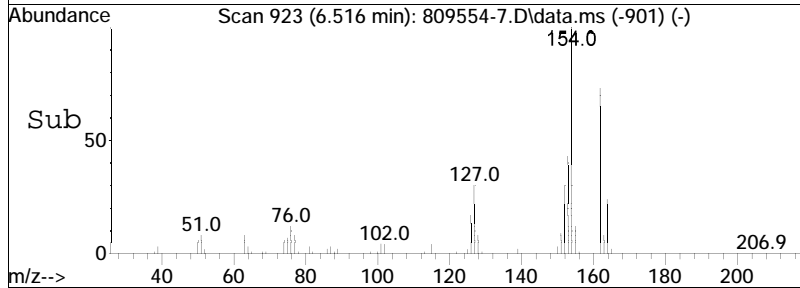
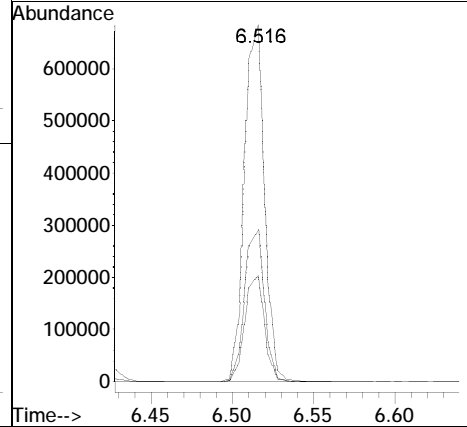
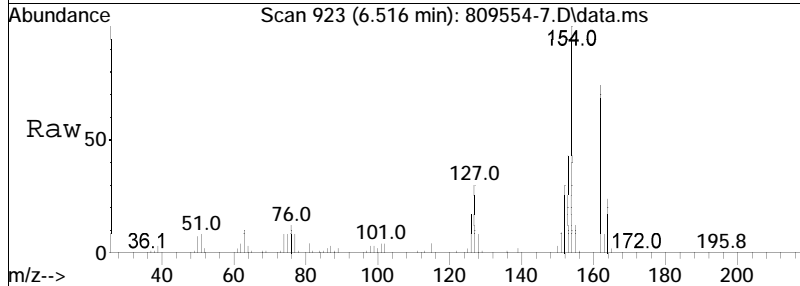
Tgt Ion	Ratio	Lower	Upper
216	100		
214	79.3	62.2	93.4
179	20.5	17.4	26.2

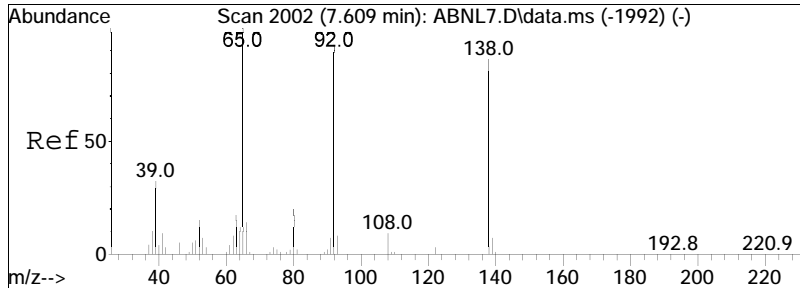




#62
 Biphenyl
 Concen: 27.64 ug/ml
 RT: 6.516 min Scan# 923
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

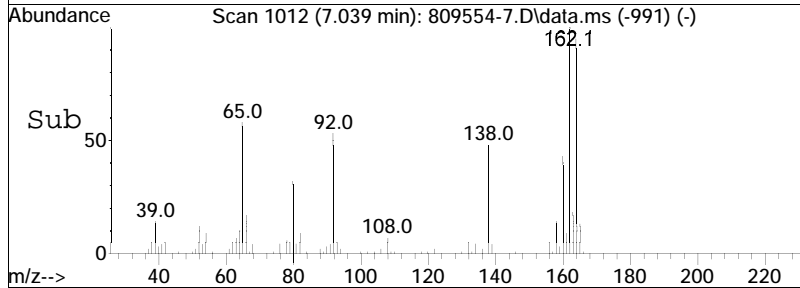
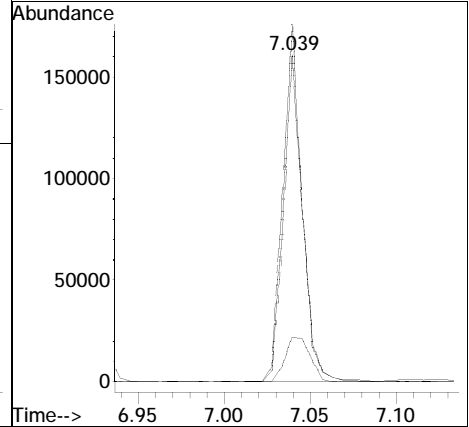
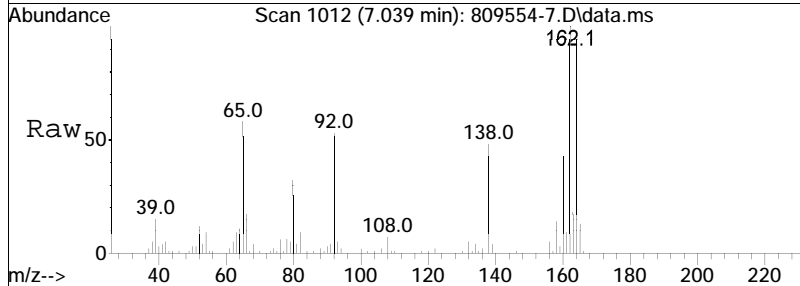
Tgt Ion	Ratio	Lower	Upper
154	100		
153	42.5	33.4	50.0
152	29.4	23.0	34.6

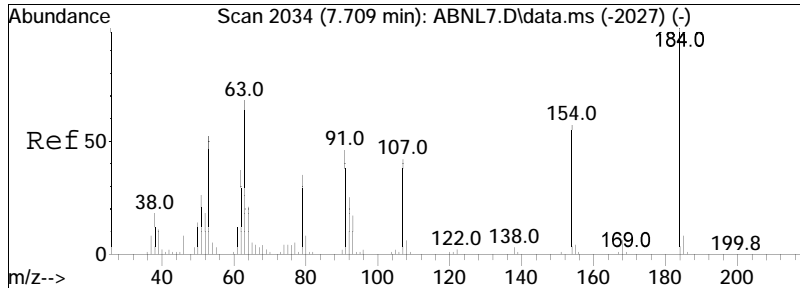




#64
 3-Nitroaniline
 Concen: 21.91 ug/ml
 RT: 7.039 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

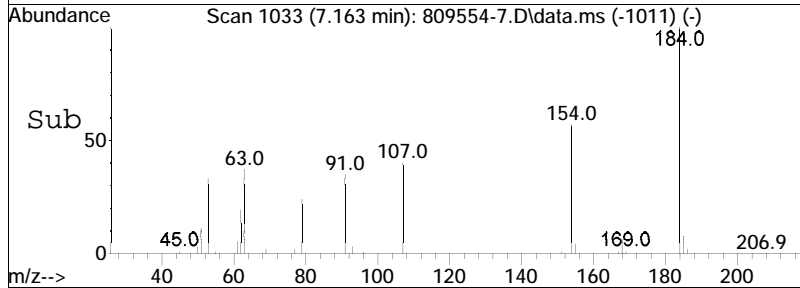
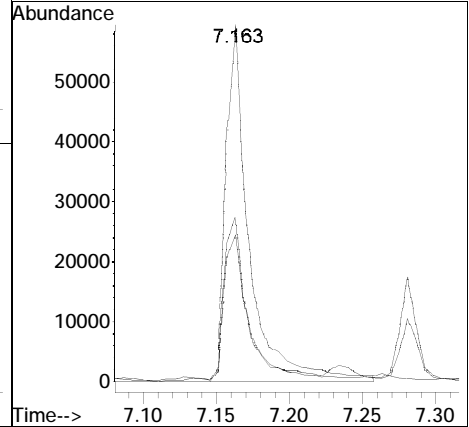
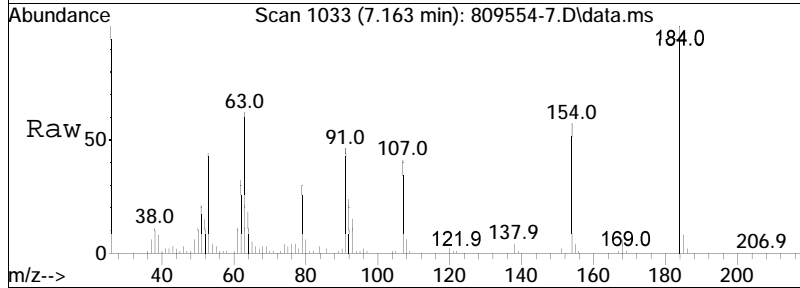
Tgt Ion	Ratio	Lower	Upper
138	100		
92	110.3	86.4	129.6
108	18.7	9.4	14.0#

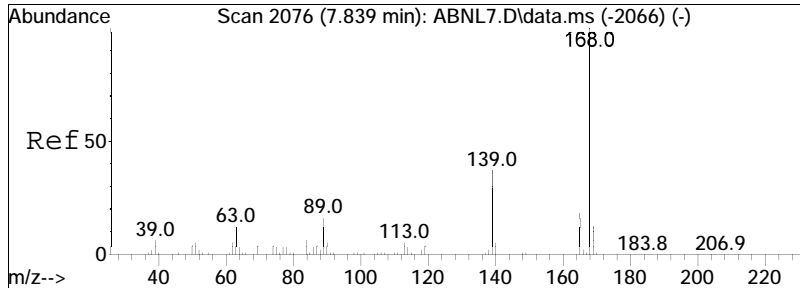




#66
 2,4-Dinitrophenol
 Concen: 26.27 ug/ml
 RT: 7.163 min Scan# 1033
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

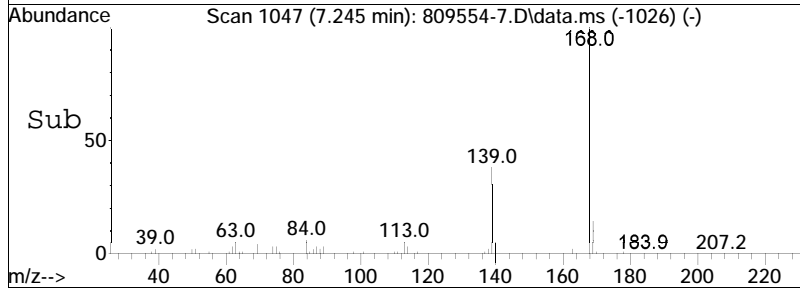
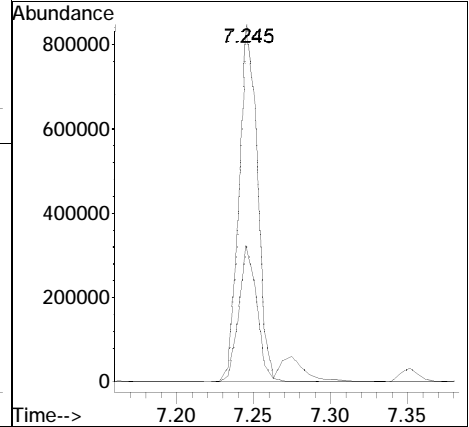
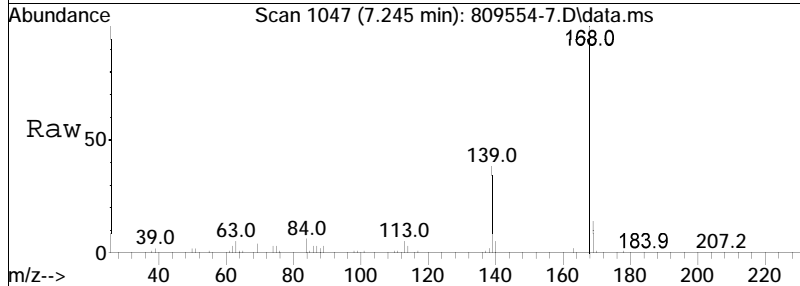
Tgt Ion	Resp	Lower	Upper
184	100		
107	46.1	37.3	55.9
91	44.9	43.8	65.6

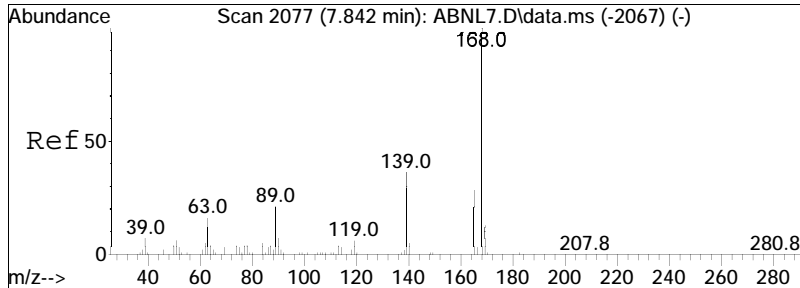




#67
 Dibenzofuran
 Concen: 25.56 ug/ml
 RT: 7.245 min Scan# 1047
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

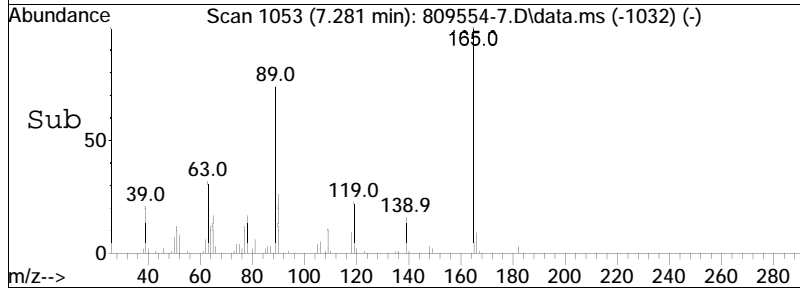
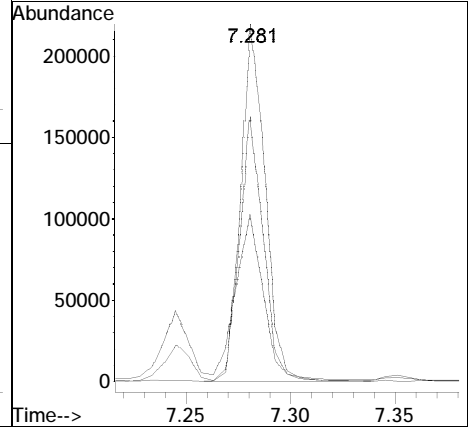
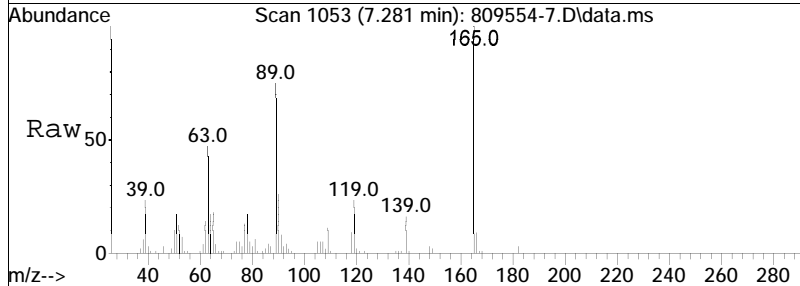
Tgt Ion	Resp	Lower	Upper
168	100		
139	37.4	30.4	45.6

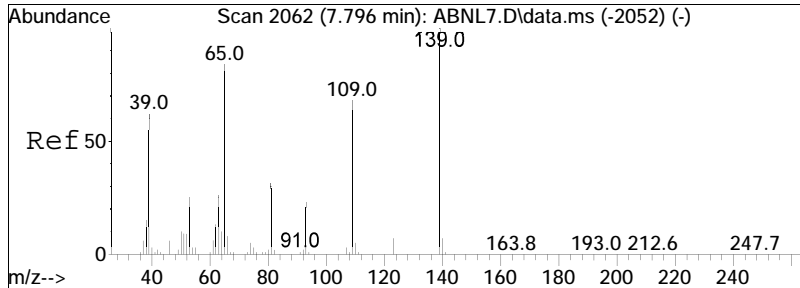




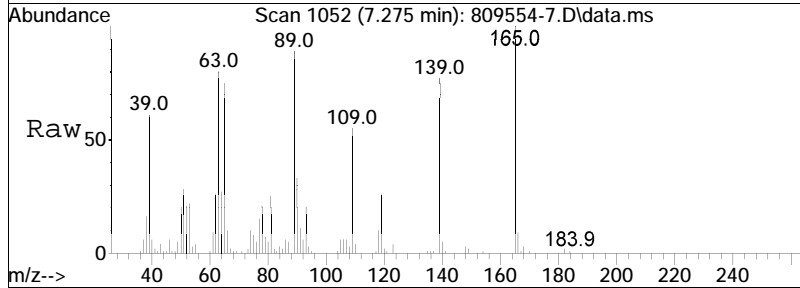
#68
 2,4-Dinitrotoluene
 Concen: 27.71 ug/ml
 RT: 7.281 min Scan# 1053
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

Tgt Ion	Resp	Lower	Upper
165	100		
89	72.2	69.8	104.8
63	52.2	59.2	88.8#

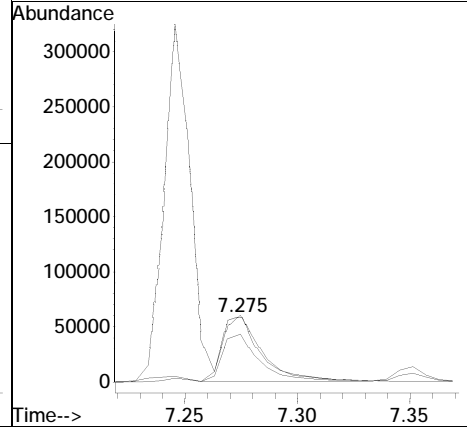
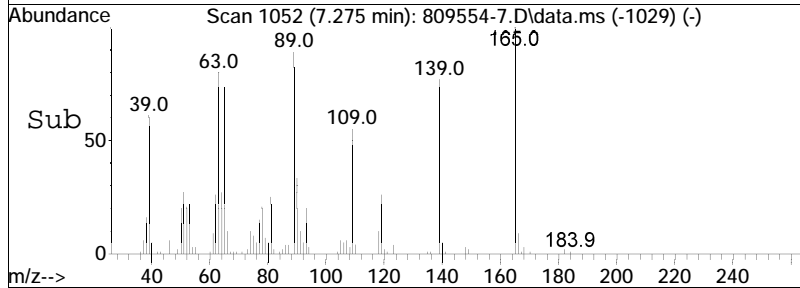


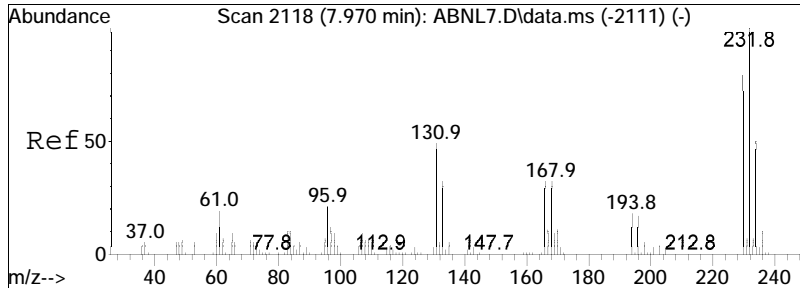


#69
 4-Nitrophenol
 Concen: 17.75 ug/ml
 RT: 7.275 min Scan# 1052
 Delta R.T. 0.009 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

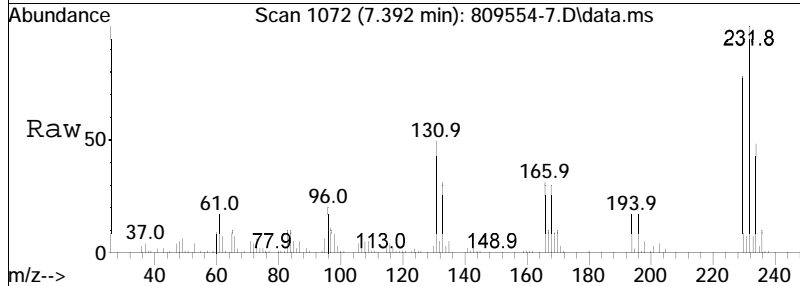


Tgt Ion:	65	Resp:	73397
Ion Ratio	Lower	Upper	
65	100		
109	67.9	52.8	79.2
139	93.4	84.1	126.1

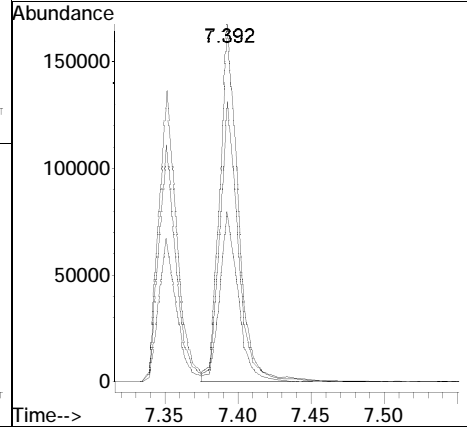
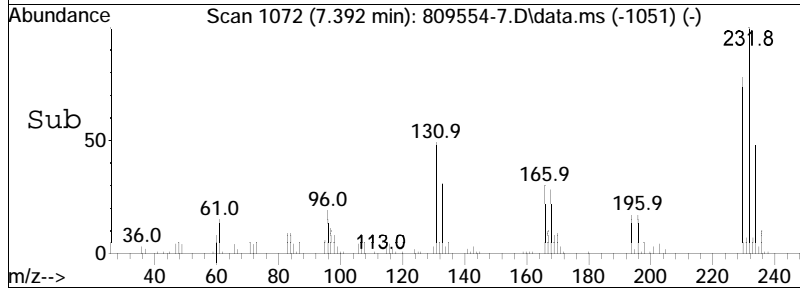


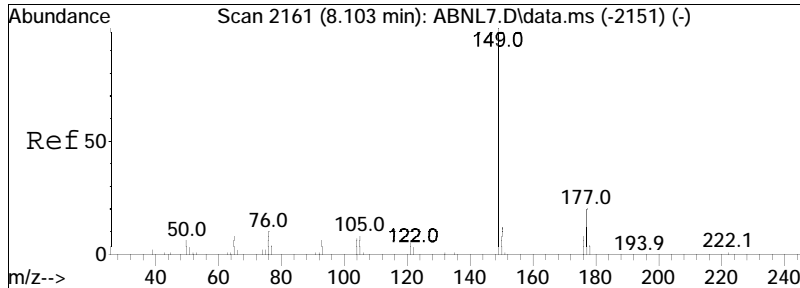


#71
 2,3,4,6-Tetrachlorophenol
 Concen: 26.56 ug/ml
 RT: 7.392 min Scan# 1072
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am



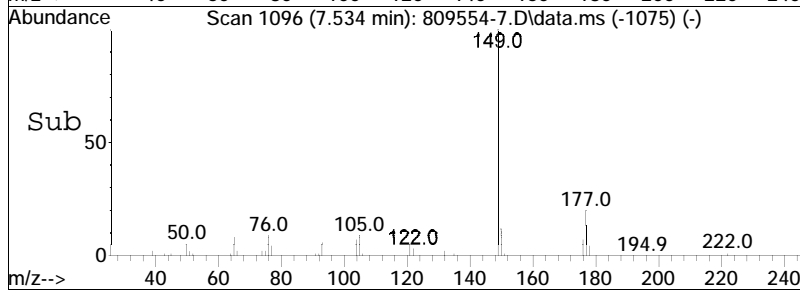
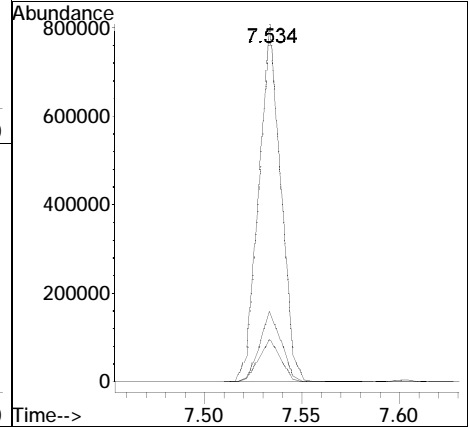
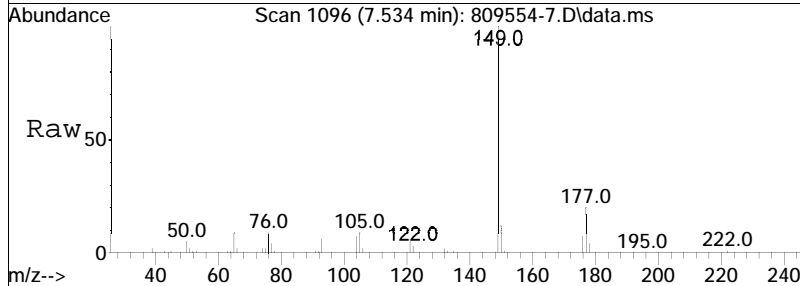
Tgt Ion	Resp	Lower	Upper
232	100		
230	77.9	62.8	94.2
234	47.3	38.3	57.5

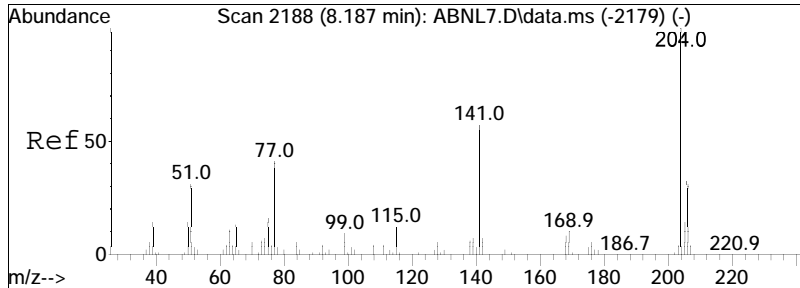




#72
 Diethyl phthalate
 Concen: 24.78 ug/ml
 RT: 7.534 min Scan# 1096
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

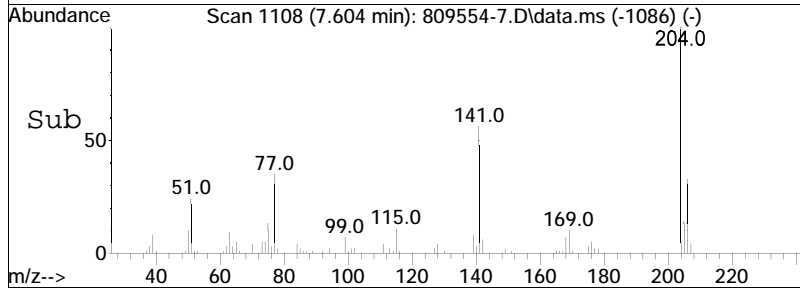
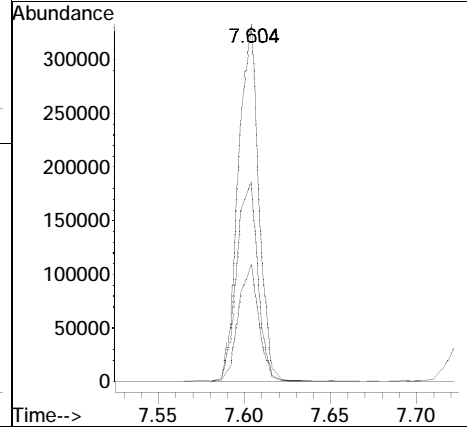
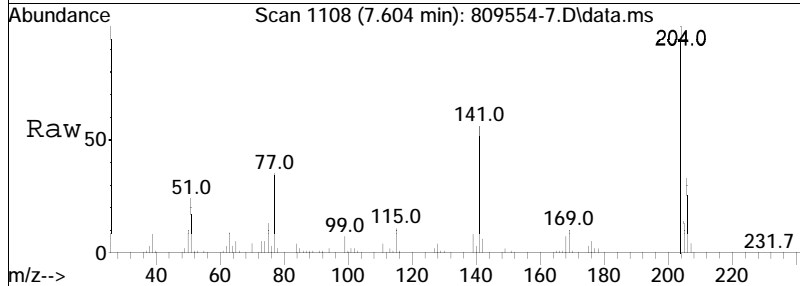
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.6	15.6	23.4
150	12.1	9.6	14.4

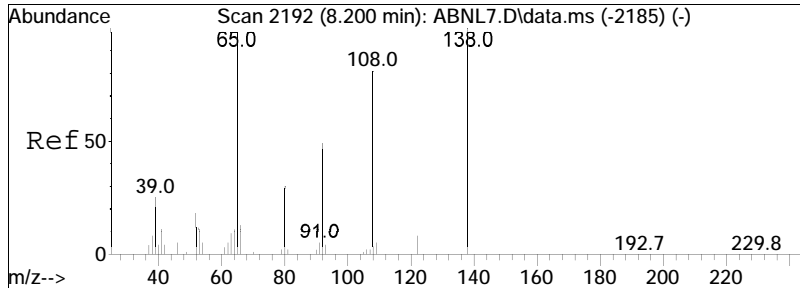




#74
 4-Chlorophenyl phenyl ether
 Concen: 25.60 ug/ml
 RT: 7.604 min Scan# 1108
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

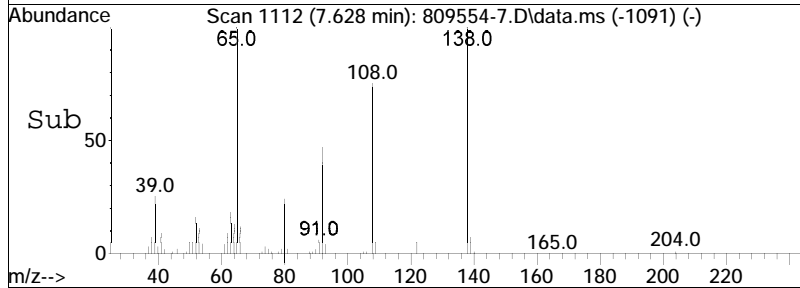
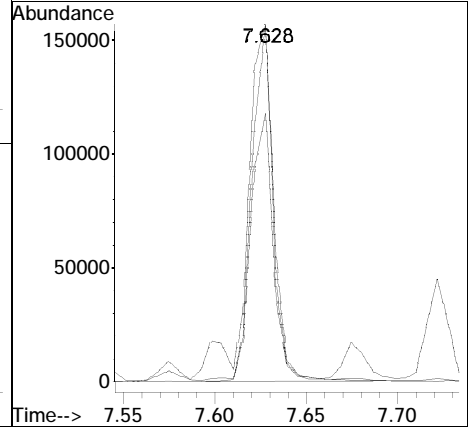
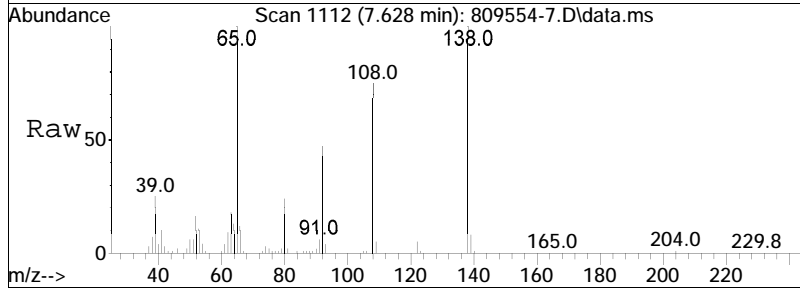
Tgt Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.0	39.0
141	58.0	48.5	72.7

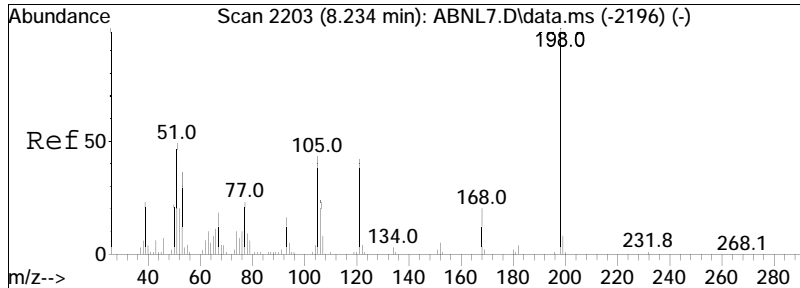




#75
 4-Nitroaniline
 Concen: 23.54 ug/ml
 RT: 7.628 min Scan# 1112
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

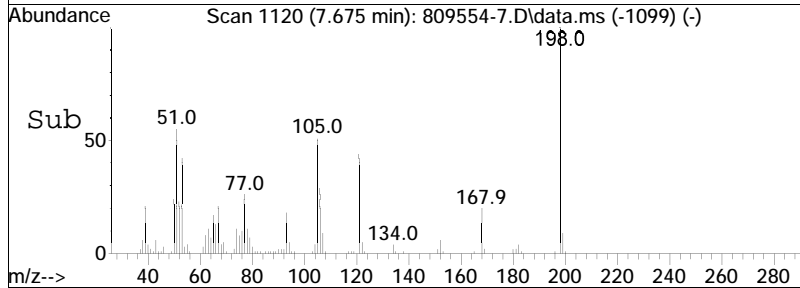
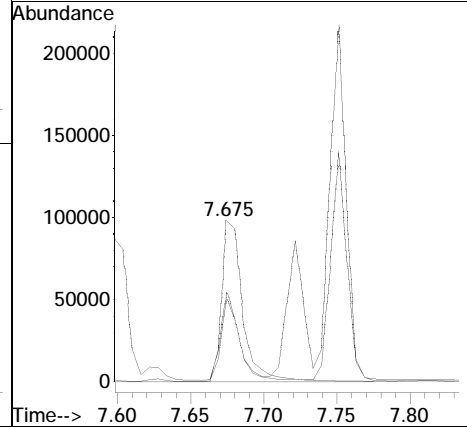
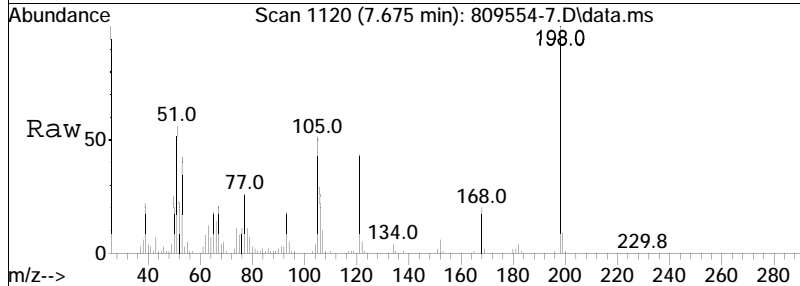
Tgt Ion	Resp	Lower	Upper
138	128723		
138	100		
108	77.0	54.4	81.6
65	115.0	100.1	150.1

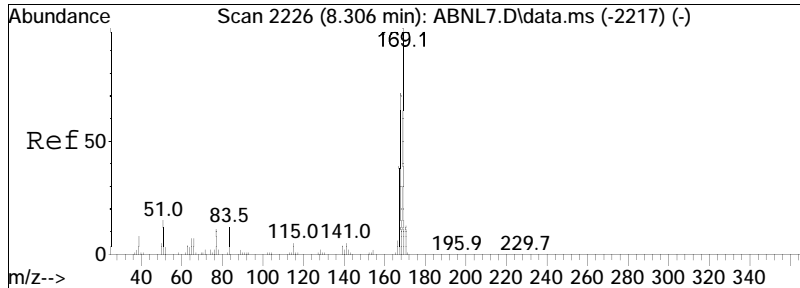




#76
 4,6-Dinitro-o-cresol
 Concen: 30.61 ug/ml
 RT: 7.675 min Scan# 1120
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

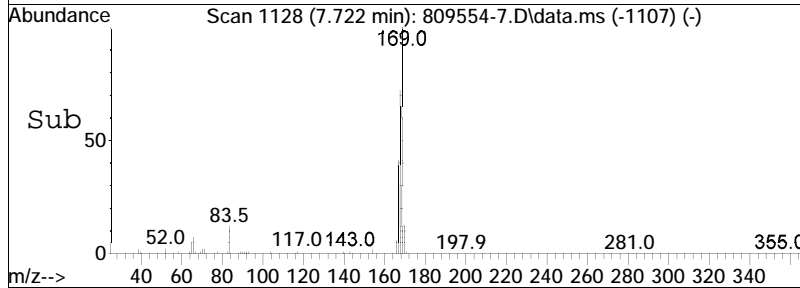
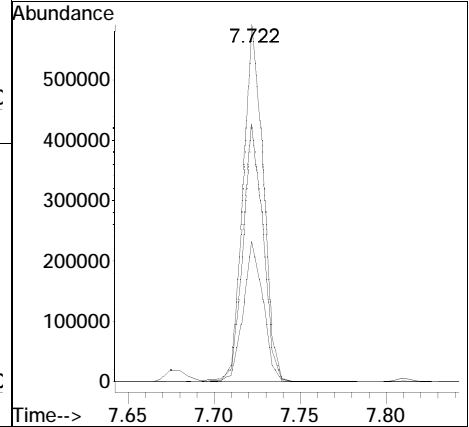
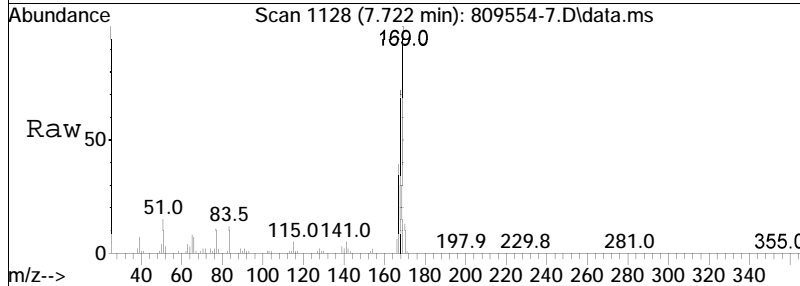
Tgt Ion	Ratio	Lower	Upper
198	100		
51	46.9	48.3	72.5#
105	45.8	38.4	57.6

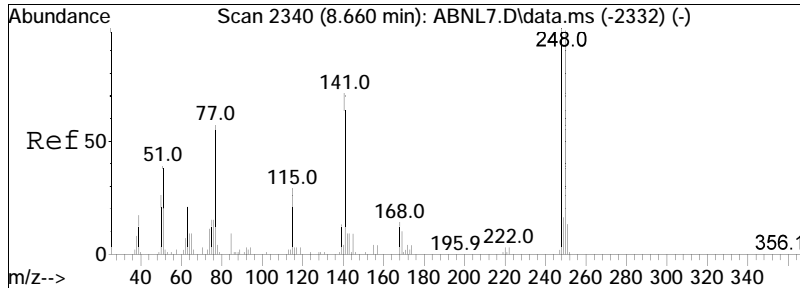




#77
 NDPA/DPA
 Concen: 25.23 ug/ml
 RT: 7.722 min Scan# 1128
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

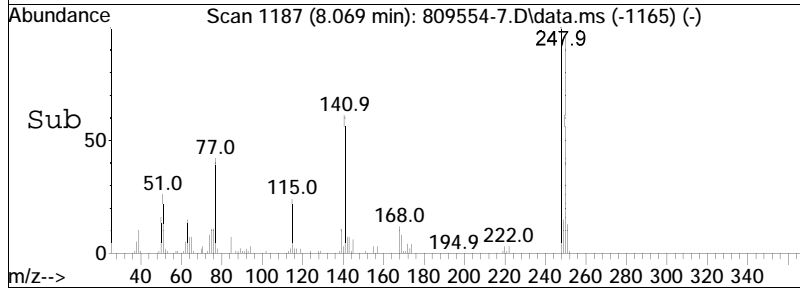
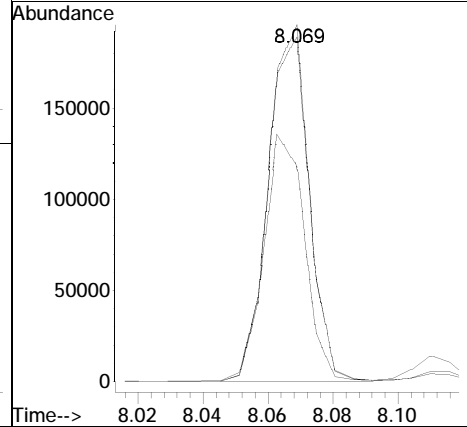
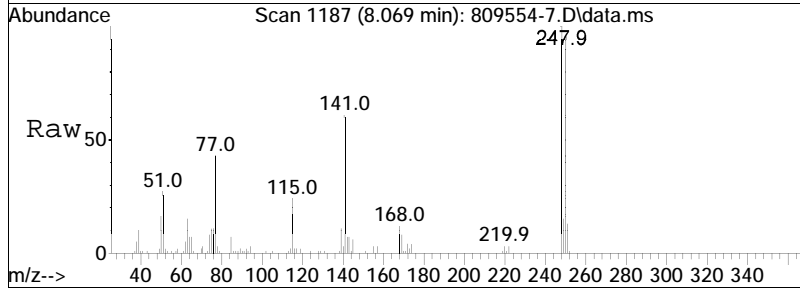
Tgt Ion	Resp	Lower	Upper
169	100		
168	72.2	57.2	85.8
167	39.4	31.0	46.4

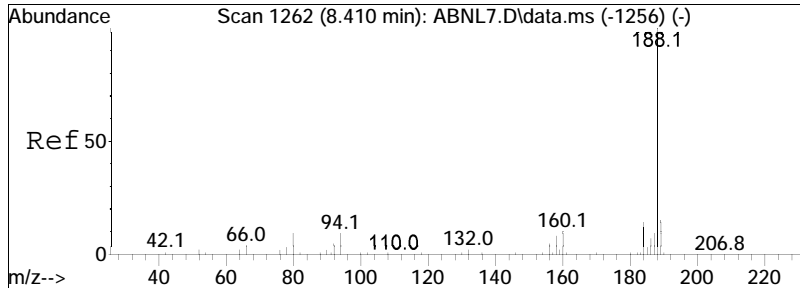




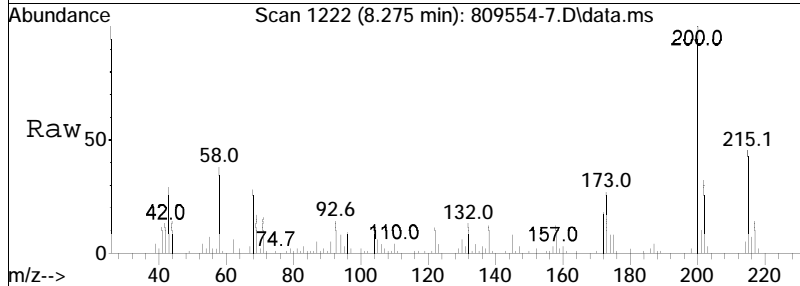
#80
 4-Bromophenyl phenyl ether
 Concen: 25.77 ug/ml
 RT: 8.069 min Scan# 1187
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

Tgt Ion	Ratio	Lower	Upper
248	100		
141	69.9	59.9	89.9
250	97.6	78.0	117.0

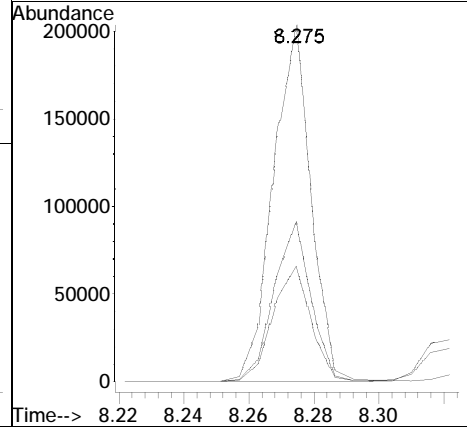
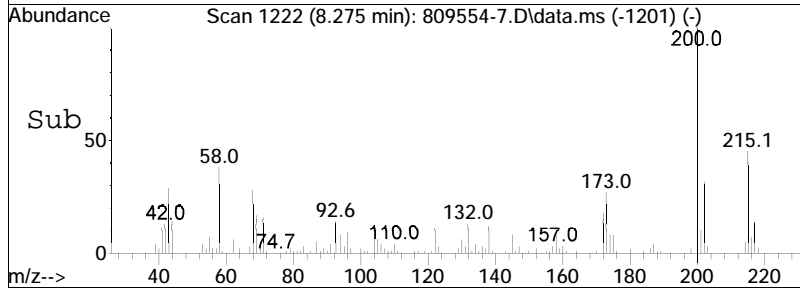


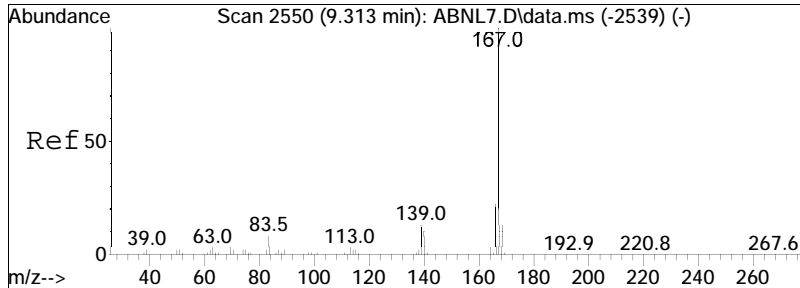


#87
 Atrazine
 Concen: 26.12 ug/ml
 RT: 8.275 min Scan# 1222
 Delta R.T. 0.000 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am



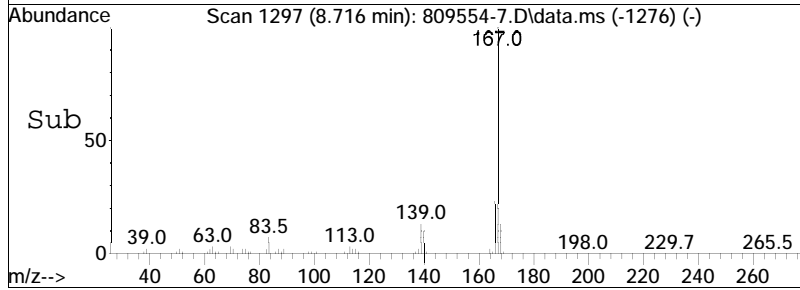
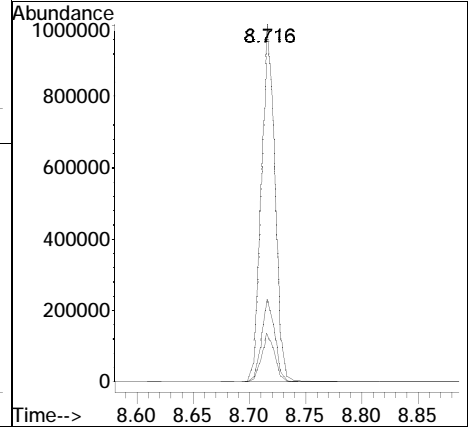
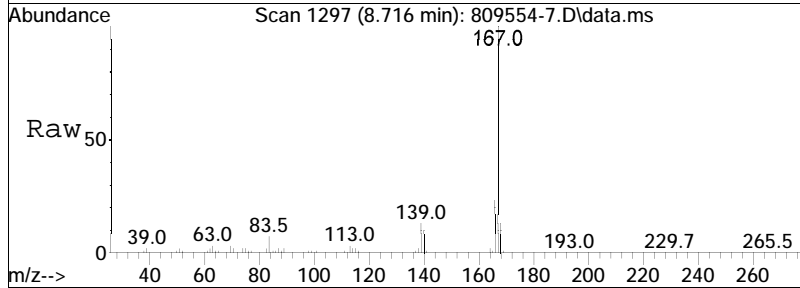
Tgt Ion	Resp	Lower	Upper
200	100		
202	33.0	26.1	39.1
215	44.3	36.2	54.2

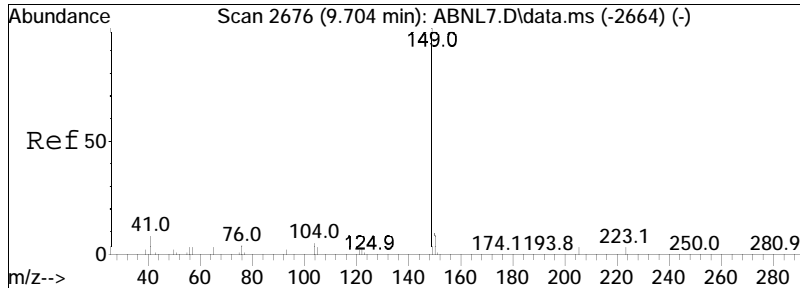




#91
 Carbazole
 Concen: 25.52 ug/ml
 RT: 8.716 min Scan# 1297
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

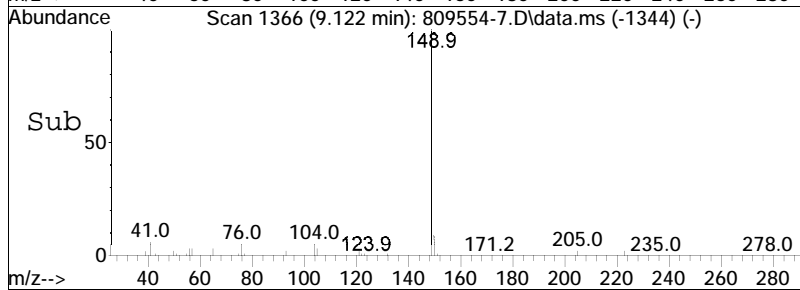
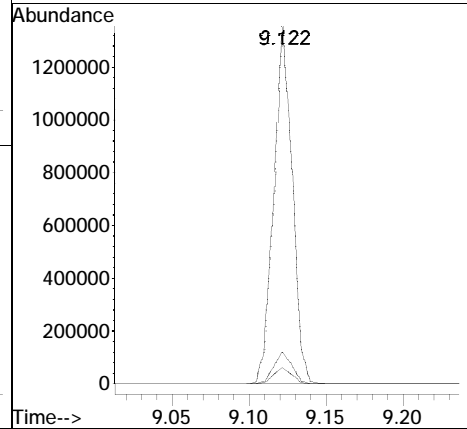
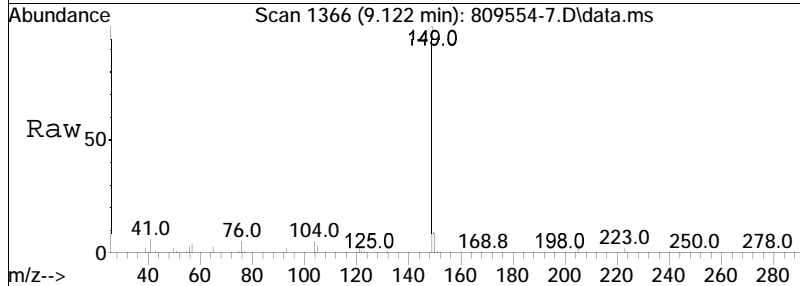
Tgt Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	16.0
166	23.0	18.0	27.0

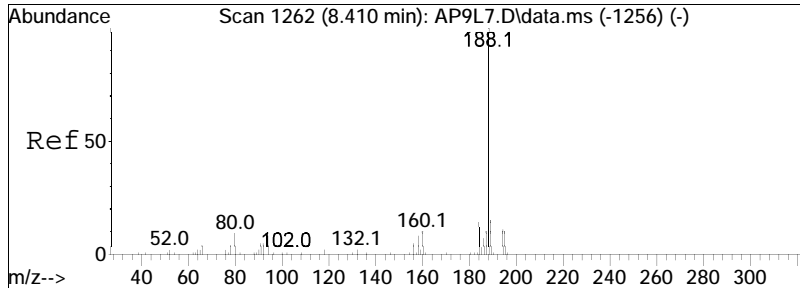




#92
 Di-n-butylphthalate
 Concen: 25.11 ug/ml
 RT: 9.122 min Scan# 1366
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

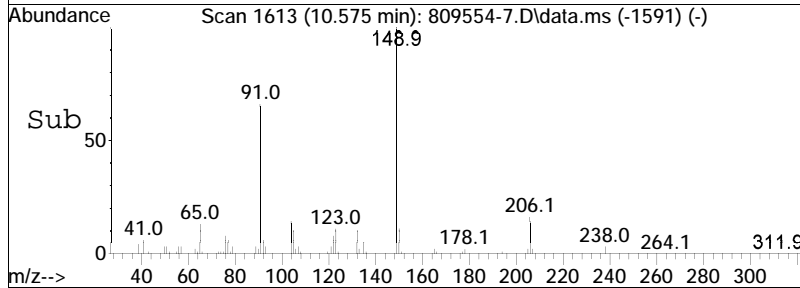
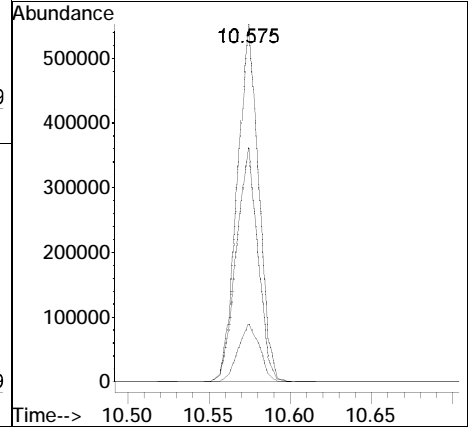
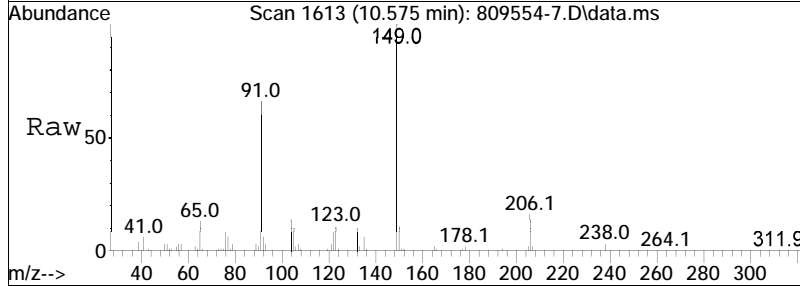
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.3	10.9
104	4.6	3.6	5.4

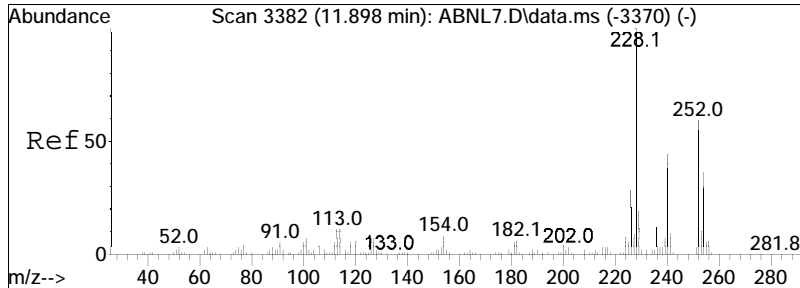




#97
 Butyl benzyl phthalate
 Concen: 25.00 ug/ml
 RT: 10.575 min Scan# 1613
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

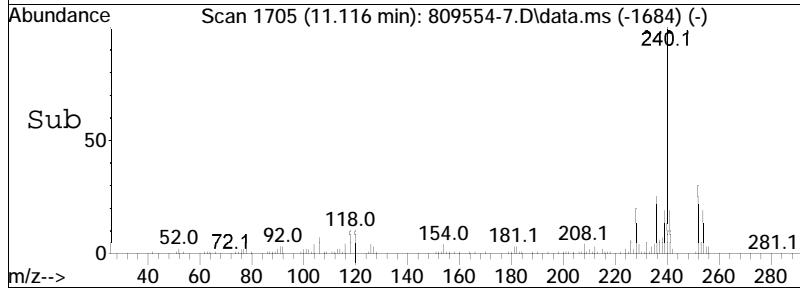
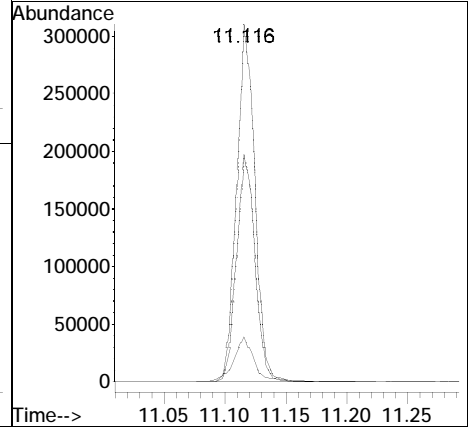
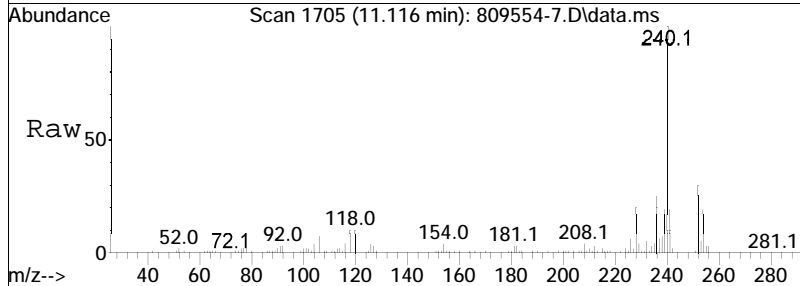
Tgt Ion	Resp	Lower	Upper
149	100		
91	65.8	54.6	81.8
206	16.4	12.5	18.7

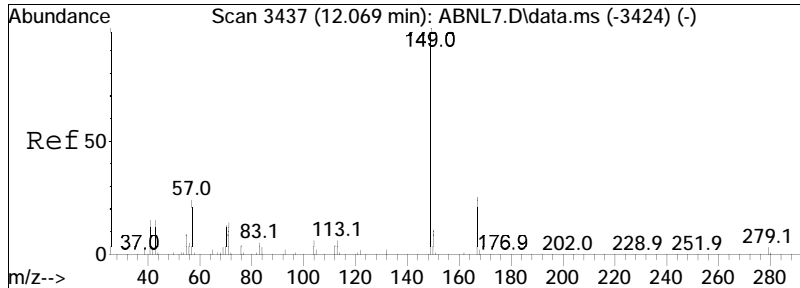




#106
 3,3'-Dichlorobenzidine
 Concen: 21.03 ug/ml
 RT: 11.116 min Scan# 1705
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

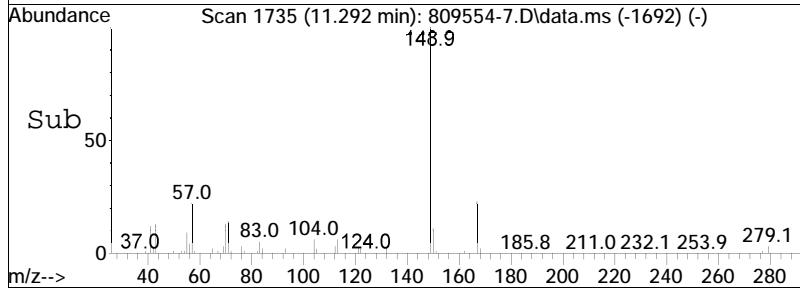
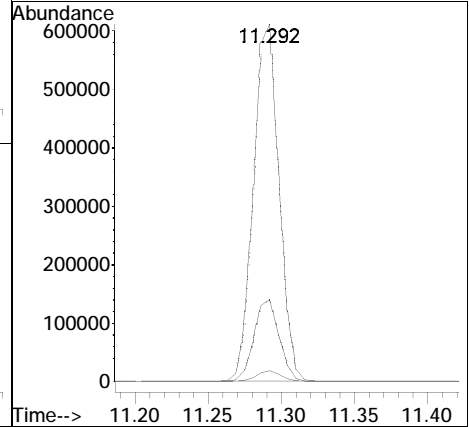
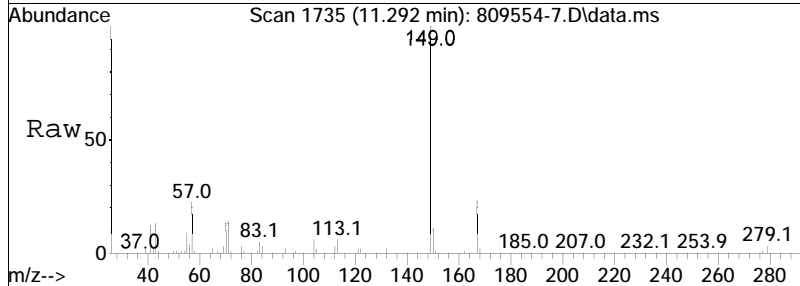
Tgt Ion	Ratio	Lower	Upper
252	100		
126	14.3	12.4	18.6
254	64.4	51.8	77.6

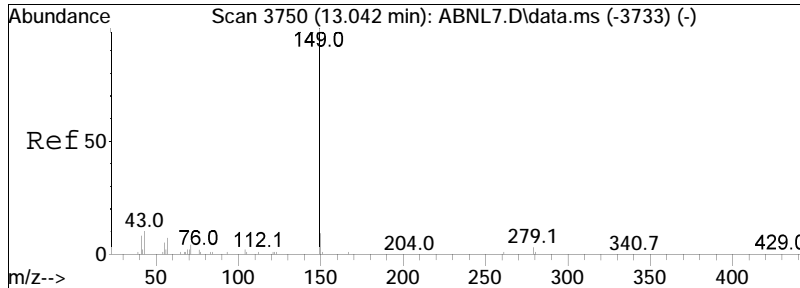




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 24.81 ug/ml
 RT: 11.292 min Scan# 1735
 Delta R.T. 0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

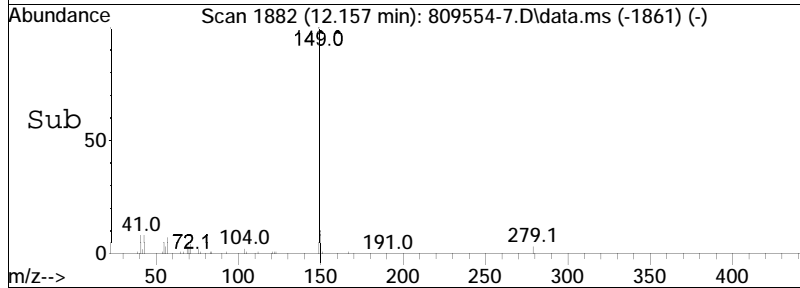
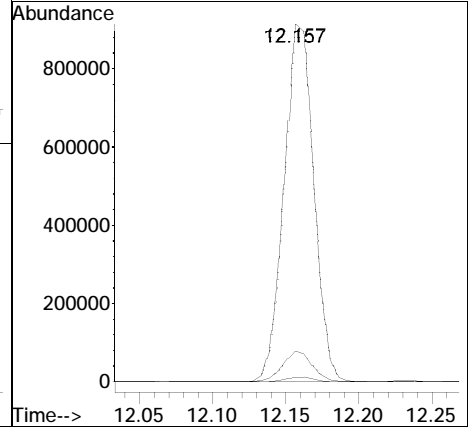
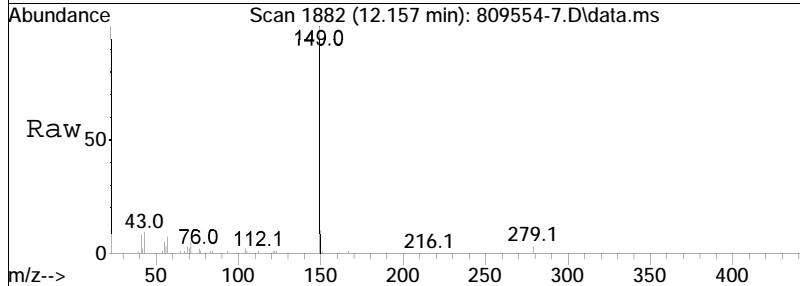
Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.6	19.0	28.6
279	2.7	2.0	3.0





#109
 Di-n-octylphthalate
 Concen: 24.40 ug/ml
 RT: 12.157 min Scan# 1882
 Delta R.T. -0.003 min
 Lab File: 809554-7.D
 Acq: 2 Aug 2023 7:07 am

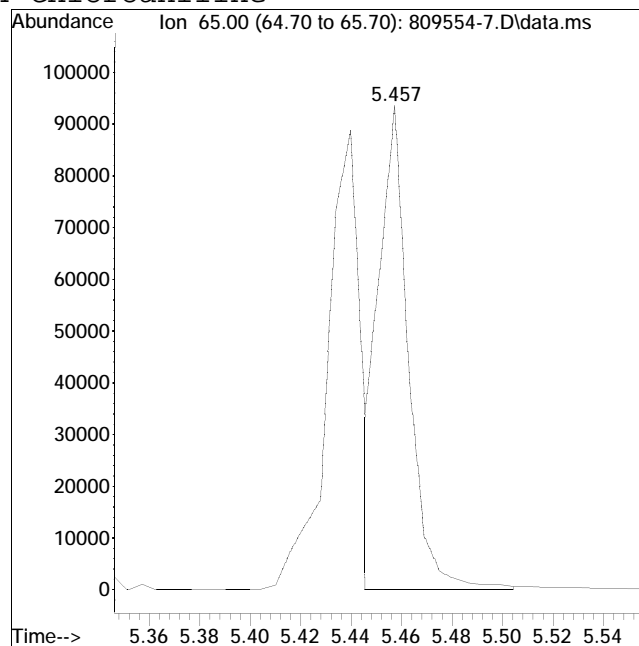
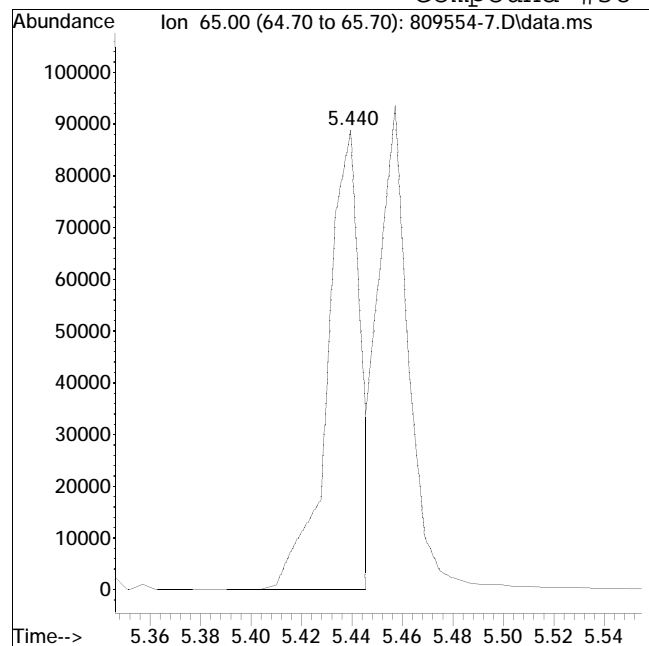
Tgt Ion	Ratio	Lower	Upper
149	100		
43	8.3	9.0	13.4#
167	1.3	1.1	1.7



Manual Integration Report

Data Path : I:\8270\SV109\230801n\ QMethod : FS230531SV109.m
Data File : 809554-7.D Operator : SV109:slr
Date Inj'd : 8/2/2023 7:07 am Instrument : SV109
Sample : WG1809554-7,32,,ASK Quant Date : 8/2/2023 7:26 am

Compound #38: 4-Chloroaniline



Original Peak Response = 82688

Manual Peak Response = 76282 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 809554-5.D
 Acq On : 2 Aug 2023 6:20 am
 Operator : SV109:slr
 Sample : WG1809554-5,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 08 11:08:12 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 06:40:19 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.099	152	257634	40.000	ug/ml	0.00
Standard Area 1 = 268648			Recovery =	95.90%		
27) IS2_1,4-Dichlorobenzen...	4.099	152	257634	40.000	ug/ml	0.00
Standard Area 3 = 292844			Recovery =	87.98%		
35) IS1_Naphthalene-d8	5.346	136	1069008	40.000	ug/ml	0.00
Standard Area 1 = 1035506			Recovery =	103.24%		
55) IS2_Naphthalene-d8	5.346	136	1069008	40.000	ug/ml	0.00
Standard Area 3 = 1138171			Recovery =	93.92%		
63) IS1_Acenaphthene-d10	7.045	164	608233	40.000	ug/ml	0.00
Standard Area 1 = 585086			Recovery =	103.96%		
83) IS2_Acenaphthene-d10	7.045	164	608233	40.000	ug/ml	0.00
Standard Area 3 = 646970			Recovery =	94.01%		
86) IS3_Acenaphthene-d10	7.045	164	608233	40.000	ug/ml	0.00
Standard Area 2 = 587706			Recovery =	103.49%		
88) IS1_Phenanthrene-d10	8.469	188	1312367	40.000	ug/ml	0.00
Standard Area 1 = 1270325			Recovery =	103.31%		
100) IS3_Phenanthrene-d10	8.469	188	1312367	40.000	ug/ml	0.00
Standard Area 2 = 1295083			Recovery =	101.33%		
104) IS1_Chrysene-d12	11.116	240	1153762	40.000	ug/ml	0.00
Standard Area 1 = 1162834			Recovery =	99.22%		
113) IS1_Perylene-d12	13.016	264	1229567	40.000	ug/ml	0.00
Standard Area 1 = 1262838			Recovery =	97.37%		
System Monitoring Compounds						
4) 2-Fluorophenol	2.799	112	200136	28.989	ug/ml	0.00
Spiked Amount 50.000		Range 30 - 130	Recovery =	57.98%		
7) Phenol-d6	3.822	99	183680	19.756	ug/ml	0.00
Spiked Amount 50.000		Range 30 - 130	Recovery =	39.51%		
19) Nitrobenzene-d5	4.657	82	171637	18.358	ug/ml	0.00
Spiked Amount 25.000		Range 40 - 140	Recovery =	73.43%		
46) 2-Fluorobiphenyl	6.428	172	407266	19.085	ug/ml	0.00
Spiked Amount 25.000		Range 40 - 140	Recovery =	76.34%		
79) 2,4,6-Tribromophenol	7.810	330	156400	48.200	ug/ml	0.00
Spiked Amount 50.000		Range 30 - 130	Recovery =	96.40%		
96) 4-Terphenyl-d14	10.045	244	602767	18.663	ug/ml	0.00
Spiked Amount 25.000		Range 40 - 140	Recovery =	74.65%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 809554-5.D
 Acq On : 2 Aug 2023 6:20 am
 Operator : SV109:slr
 Sample : WG1809554-5,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 08 11:08:12 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 06:40:19 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Target Compounds							Qvalue
2) n-Nitrosodimethylamine	1.393	74	81163	17.082	ug/ml		91
3) Pyridine	1.428	79	77851	10.187	ug/ml		82
5) Aniline	3.781	93	231038	18.709	ug/ml#		60
6) 2-Chlorophenol	3.899	128	248996	29.168	ug/ml		99
8) Phenol	3.834	94	150903	15.089	ug/ml#		68
9) Bis(2-chloroethyl)ether	3.875	93	217380	27.115	ug/ml		86
10) 1,3-Dichlorobenzene	4.040	146	220887	23.659	ug/ml		99
11) 1,4-Dichlorobenzene	4.116	146	226385	23.684	ug/ml		99
12) 1,2-Dichlorobenzene	4.263	146	224767	24.402	ug/ml		99
13) Benzyl alcohol	4.275	79	194973	27.339	ug/ml		96
14) Bis(2-chloroisopropyl)...	4.422	45	288960	27.273	ug/ml#		76
15) 2-Methylphenol	4.434	108	205258	27.844	ug/ml		98
17) n-Nitrosodi-n-propylamine	4.546	70	179169	27.445	ug/ml		98
18) 3-Methylphenol/4-Methy...	4.593	108	225312	29.135	ug/ml#		37
20) Nitrobenzene	4.675	77	294800	32.043	ug/ml		98
21) Isophorone	4.928	82	480266	27.038	ug/ml		99
22) 2-Nitrophenol	4.998	139	143005	31.191	ug/ml		97
23) 2,4-Dimethylphenol	5.098	107	201680	23.588	ug/ml		97
24) Bis(2-chloroethoxy)met...	5.175	93	305220	28.204	ug/ml#		96
25) 2,4-Dichlorophenol	5.251	162	242639	32.593	ug/ml		98
26) 1,2,4-Trichlorobenzene	5.310	180	213065	25.275	ug/ml		99
28) Benzaldehyde	3.657	105	195329	36.837	ug/ml		97
29) Acetophenone	4.522	105	370343	32.062	ug/ml		94
37) Benzoic Acid	5.216	105	122947M3	19.004	ug/ml		
38) 4-Chloroaniline	5.457	65	80982	23.488	ug/ml#		1
40) p-Chloro-m-cresol	5.987	107	255045	30.645	ug/ml		98
43) Hexachlorocyclopentadiene	6.222	237	66245	17.874	ug/ml		100
44) 2,4,6-Trichlorophenol	6.351	196	193237	33.300	ug/ml		100
45) 2,4,5-Trichlorophenol	6.392	196	216503	33.670	ug/ml		97
48) 2-Nitroaniline	6.640	138	177525	28.805	ug/ml		98
51) Dimethyl phthalate	6.845	163	669557	29.161	ug/ml		100
53) 2,6-Dinitrotoluene	6.892	165	145090	29.560	ug/ml#		79
60) Caprolactam	5.787	55	242369	60.935	ug/ml#		82
61) 1,2,4,5-Tetrachloroben...	6.222	216	256536	27.811	ug/ml		98
62) Biphenyl	6.516	154	658763	30.089	ug/ml		98
64) 3-Nitroaniline	7.040	138	111024	19.337	ug/ml#		97
66) 2,4-Dinitrophenol	7.163	184	87010	32.620	ug/ml		93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 809554-5.D
 Acq On : 2 Aug 2023 6:20 am
 Operator : SV109:slr
 Sample : WG1809554-5,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 08 11:08:12 2023
 Quant Method : I:\8270\sv109\230801n\FS230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 06:40:19 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv109\230801n\ABN0801n.D
 : 2 - I:\8270\sv109\230801n\ADP0801n.D
 : 3 - I:\8270\sv109\230801n\AP90801n.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) Dibenzofuran	7.245	168	809877	28.832	ug/ml	100
68) 2,4-Dinitrotoluene	7.281	165	204874	31.323	ug/ml#	81
69) 4-Nitrophenol	7.269	65	85139	20.027	ug/ml	87
71) 2,3,4,6-Tetrachlorophenol	7.392	232	177245	31.094	ug/ml	99
72) Diethyl phthalate	7.534	149	739038	28.429	ug/ml	100
74) 4-Chlorophenyl phenyl ...	7.604	204	317417	28.897	ug/ml	97
75) 4-Nitroaniline	7.628	138	104207	18.535	ug/ml	82
76) 4,6-Dinitro-o-cresol	7.681	198	121139	35.760	ug/ml#	88
77) NDPA/DPA	7.722	169	555628	28.462	ug/ml	98
78) Azobenzene	7.751	77	637347	27.174	ug/ml	97
80) 4-Bromophenyl phenyl e...	8.069	248	201666	29.639	ug/ml	97
85) Pentachloronitrobenzene	8.328	237	103672	33.104	ug/ml	93
87) Atrazine	8.275	200	190973	29.850	ug/ml	99
91) Carbazole	8.716	167	997943	29.629	ug/ml	100
92) Di-n-butylphthalate	9.122	149	1316145	28.843	ug/ml	100
94) Benzidine	9.816	184	3254	0.127	ug/ml#	1
97) Butyl benzyl phthalate	10.575	149	596159	28.621	ug/ml	98
102) Parathion	9.269	109	149621	38.626	ug/ml#	92
106) 3,3'-Dichlorobenzidine	11.122	252	277694	18.074	ug/ml	100
108) Bis(2-ethylhexyl)phtha...	11.292	149	889593	29.549	ug/ml	99
109) Di-n-octylphthalate	12.163	149	1533381	28.881	ug/ml#	93

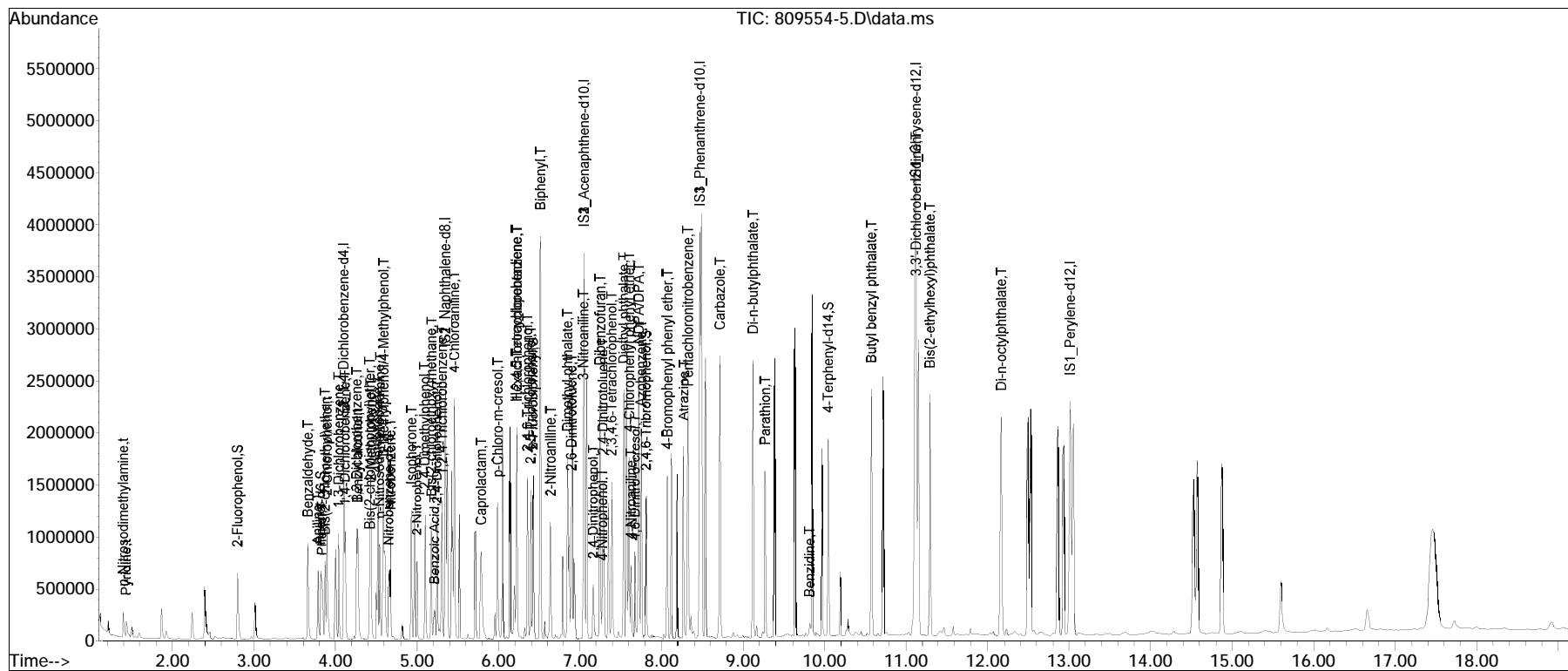
(#) = qualifier out of range (m) = manual integration (+) = signals summed

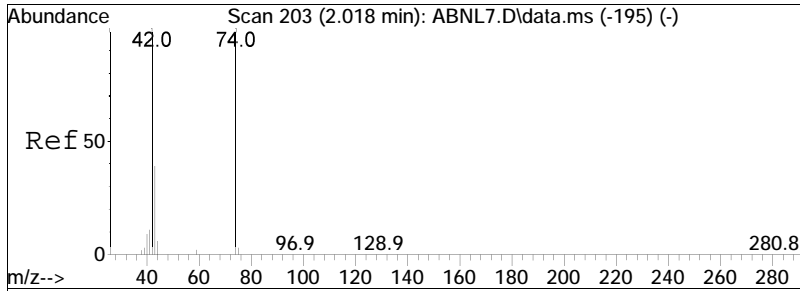
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\230801n\
 Data File : 809554-5.D
 Acq On : 2 Aug 2023 6:20 am
 Operator : SV109:slr
 Sample : WG1809554-5,32,,ASK
 Misc : WG1810592,WG1809554,ical20078
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 08 11:08:12 2023
 Quant Method : I:\8270\sv109\230801n\Fs230531SV109.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Aug 02 06:40:19 2023
 Response via : Initial Calibration

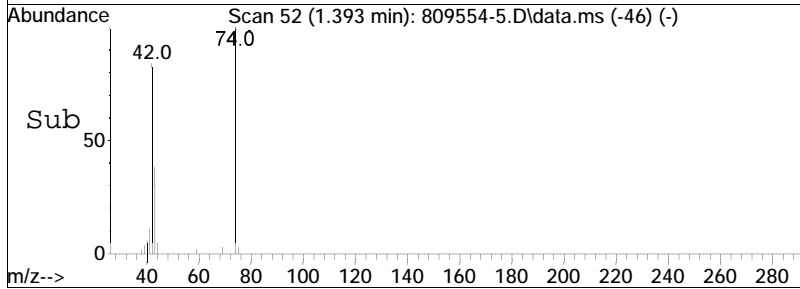
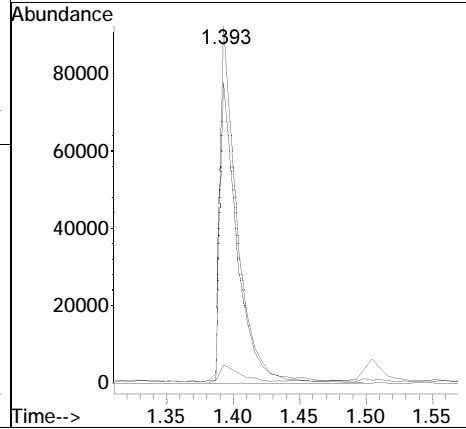
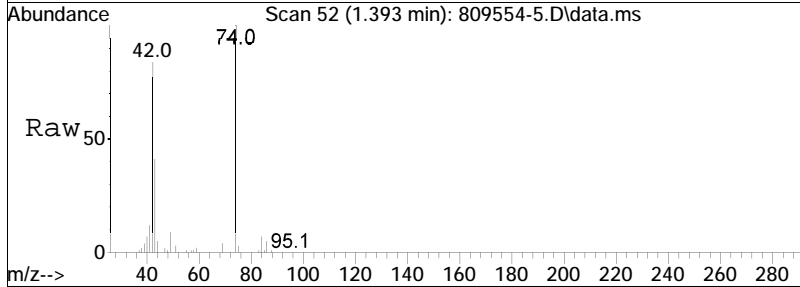
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA801n.D•

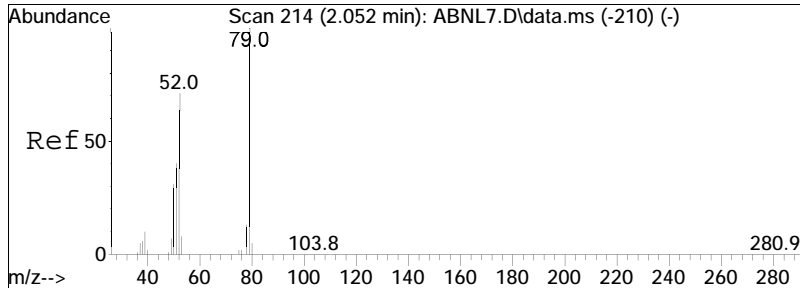




#2
 n-Nitrosodimethylamine
 Concen: 17.08 ug/ml
 RT: 1.393 min Scan# 52
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

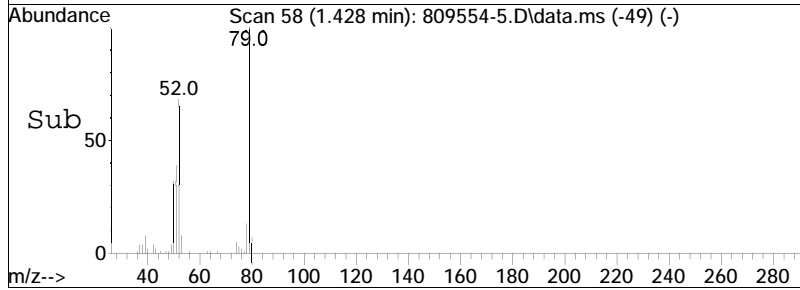
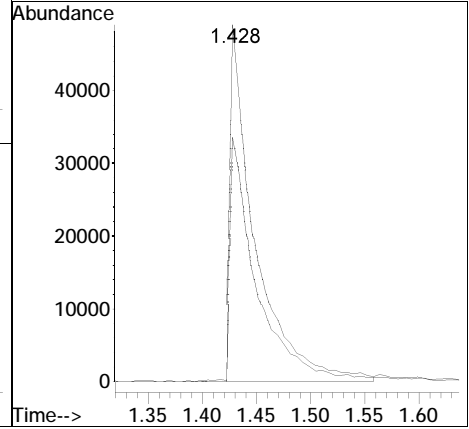
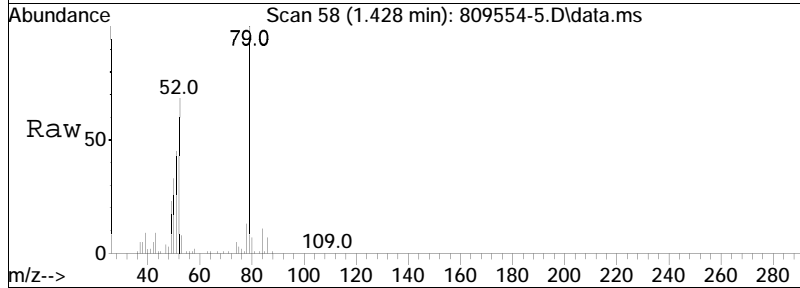
Tgt Ion	74	Ratio	100	Resp	81163
Ion	74	Ratio	100	Lower	Upper
	42	85.7	75.7	113.5	
	44	5.8	5.7	8.5	

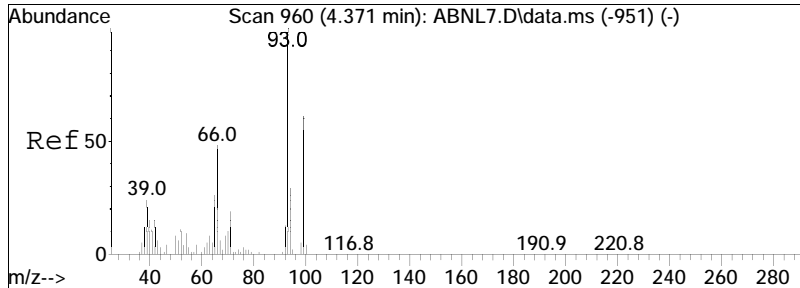




#3
 Pyridine
 Concen: 10.19 ug/ml
 RT: 1.428 min Scan# 58
 Delta R.T. 0.015 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

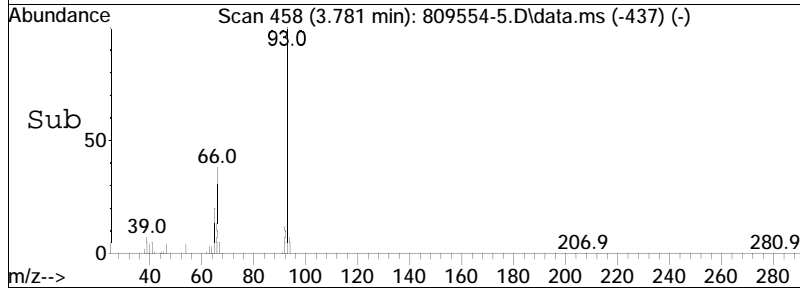
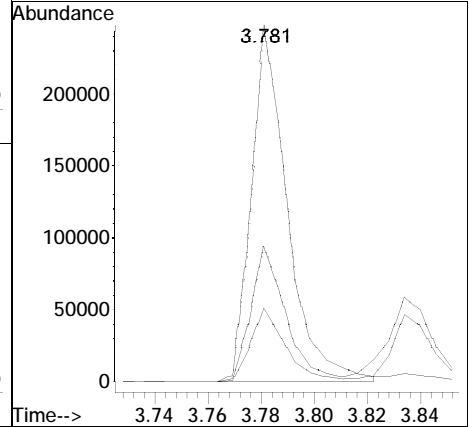
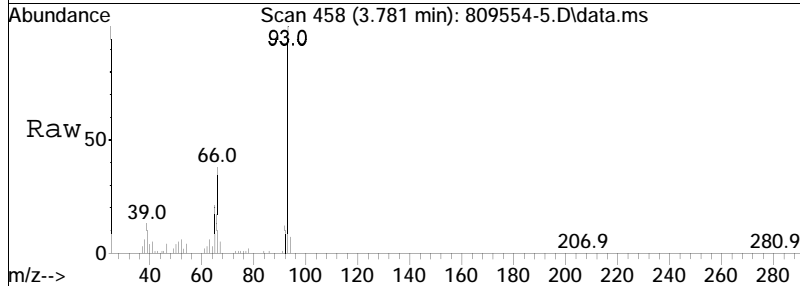
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
79	100		
52	73.2	71.8	107.8

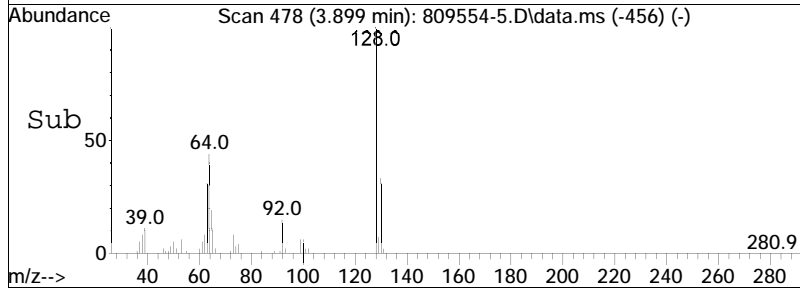
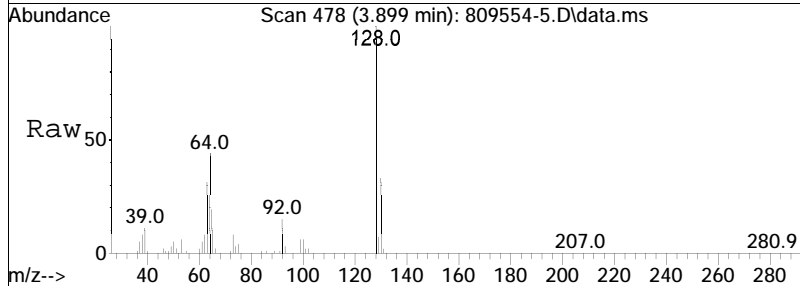
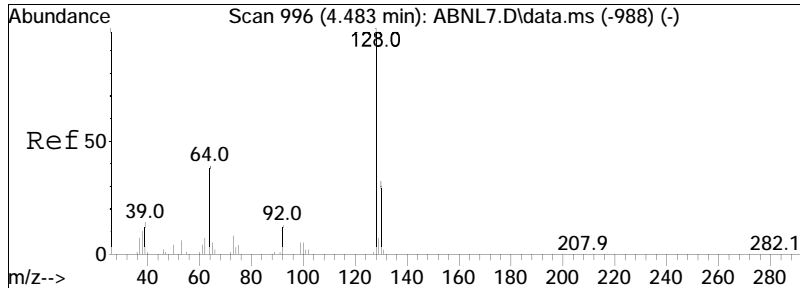




#5
 Aniline
 Concen: 18.71 ug/ml
 RT: 3.781 min Scan# 458
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

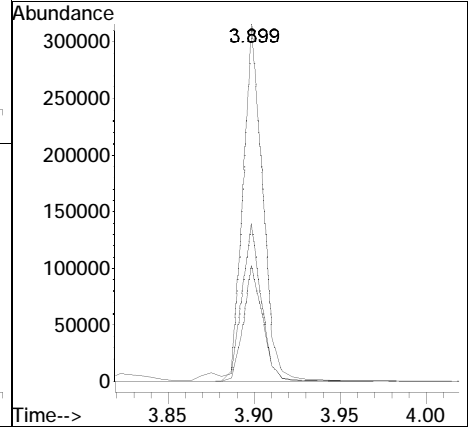
Tgt Ion:	93	Resp:	231038
Ion Ratio	Lower	Upper	
93	100		
66	37.3	57.0	85.4#
65	20.2	36.2	54.2#

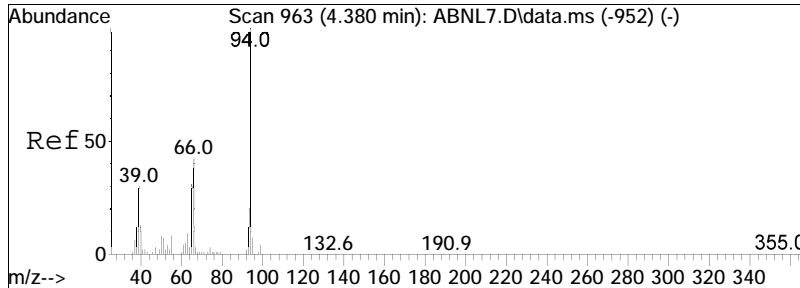




#6
 2-Chlorophenol
 Concen: 29.17 ug/ml
 RT: 3.899 min Scan# 478
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

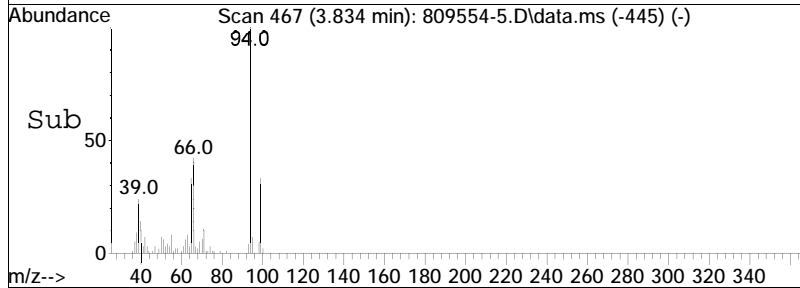
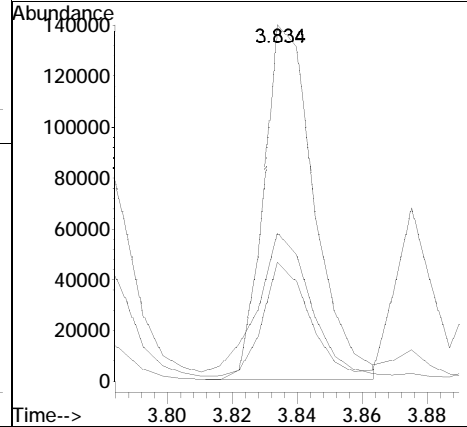
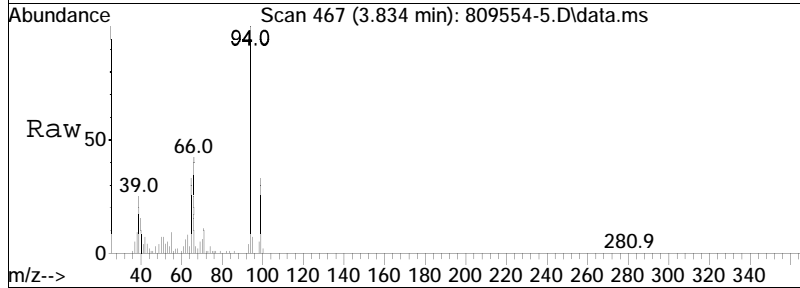
Tgt Ion	Resp	Lower	Upper
128	100		
64	46.1	38.1	57.1
130	32.2	25.7	38.5

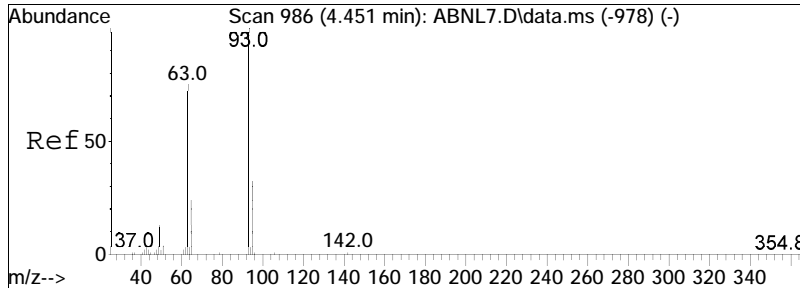




#8
 Phenol
 Concen: 15.09 ug/ml
 RT: 3.834 min Scan# 467
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

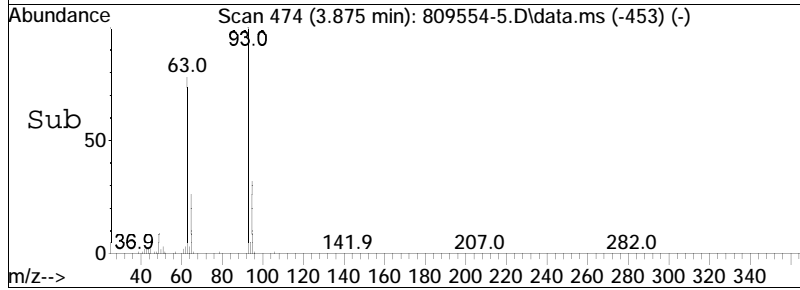
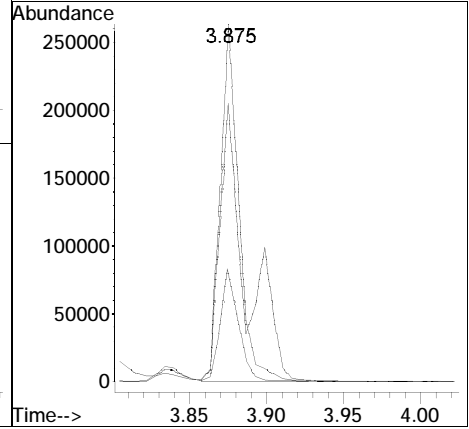
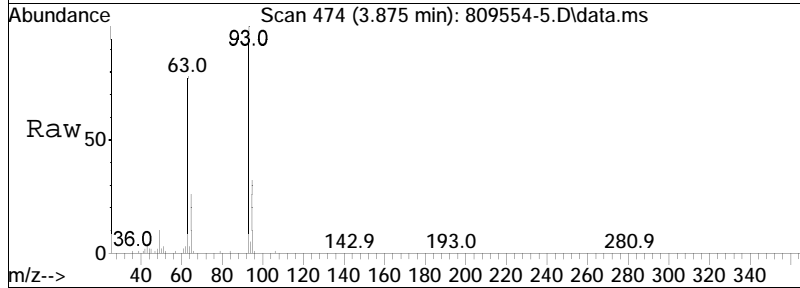
Tgt Ion:	94	Resp:	150903
Ion Ratio	Lower	Upper	
94	100		
65	32.6	40.7	61.1#
66	48.4	64.1	96.1#

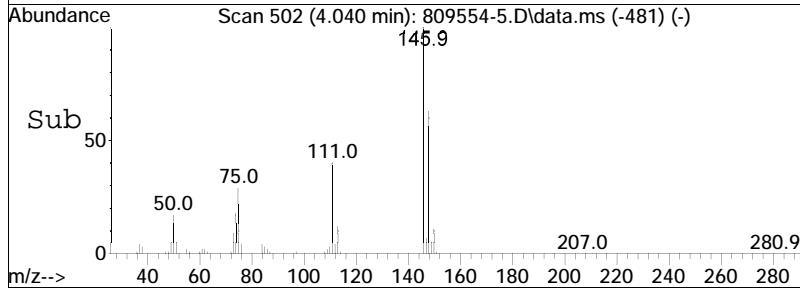
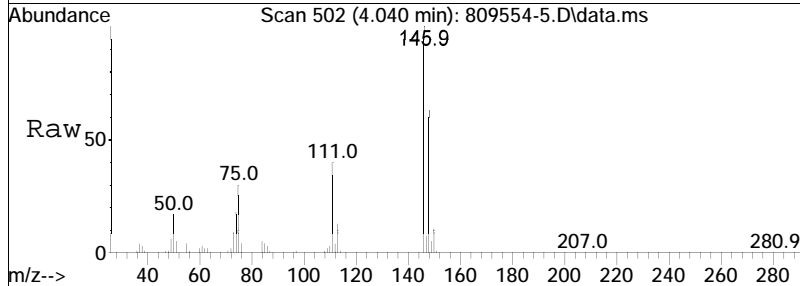
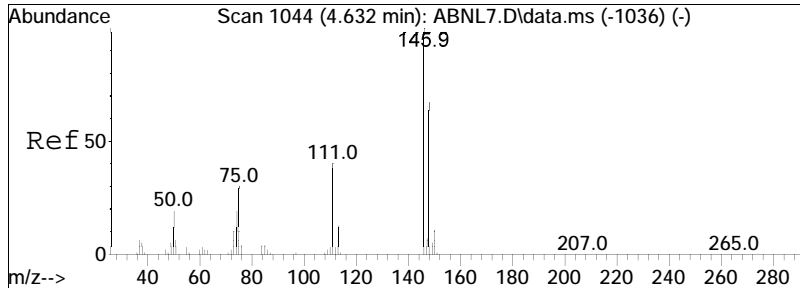




#9
 Bis(2-chloroethyl)ether
 Concen: 27.11 ug/ml
 RT: 3.875 min Scan# 474
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

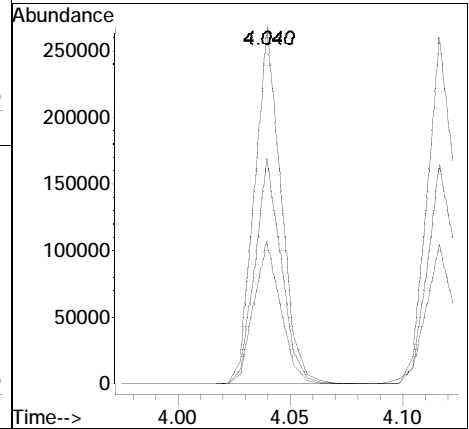
Tgt Ion	Resp	Lower	Upper
93	100		
63	74.6	73.7	110.5
95	31.5	26.9	40.3

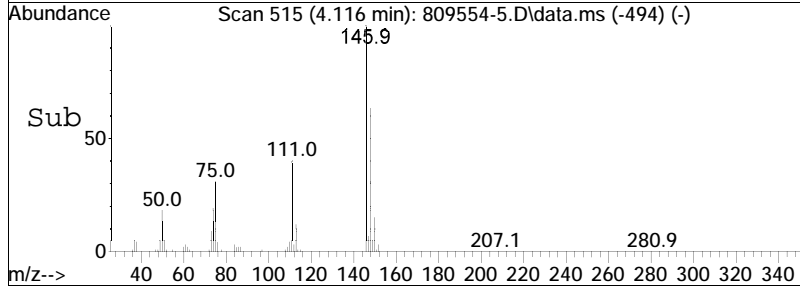
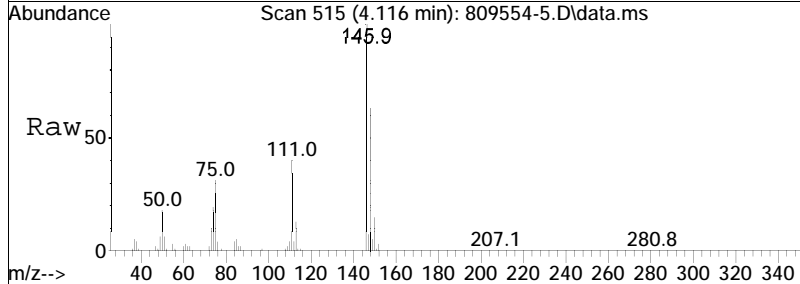
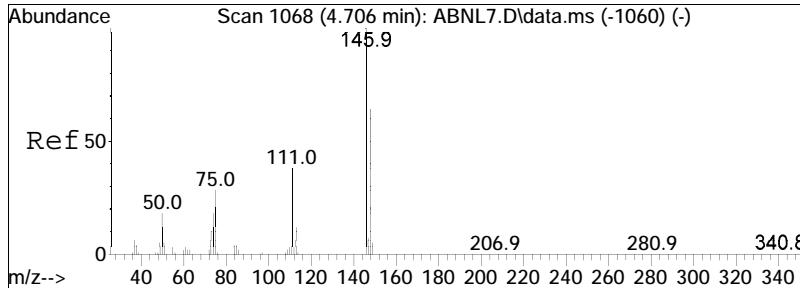




#10
 1,3-Dichlorobenzene
 Concen: 23.66 ug/ml
 RT: 4.040 min Scan# 502
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

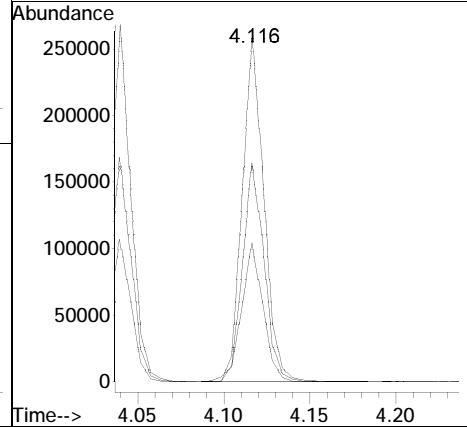
Tgt Ion	Resp	Lower	Upper
146	100		
111	40.5	33.0	49.4
148	62.6	51.0	76.6

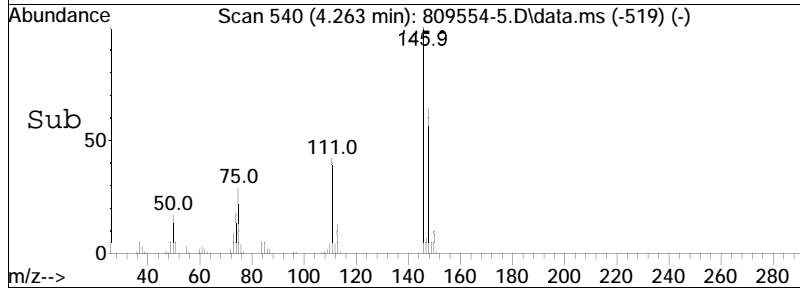
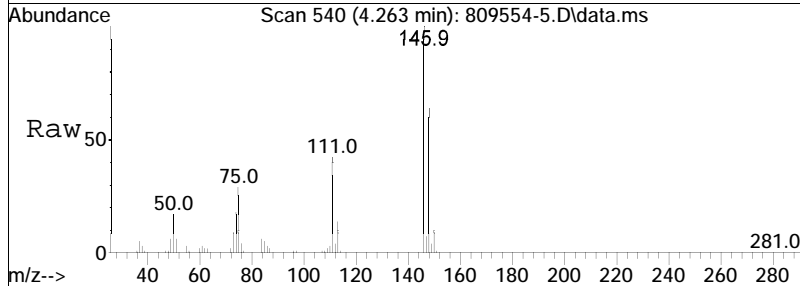
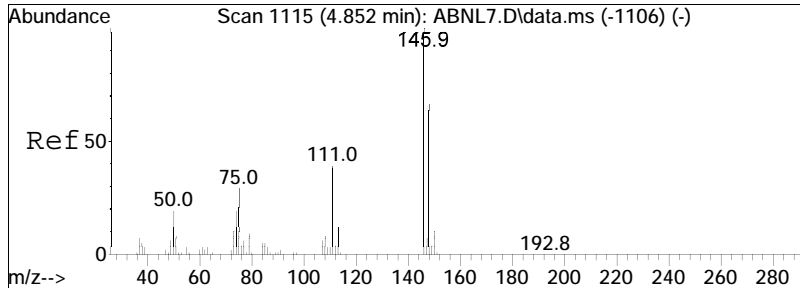




#11
 1,4-Dichlorobenzene
 Concen: 23.68 ug/ml
 RT: 4.116 min Scan# 515
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

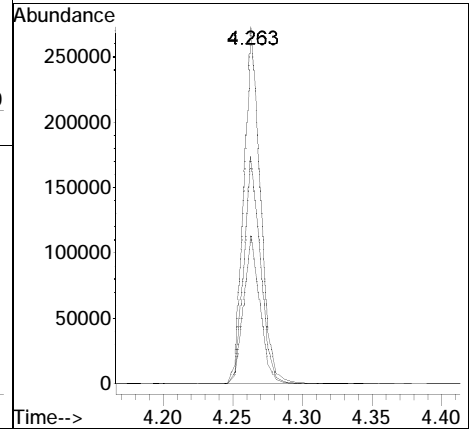
Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.4	77.0
111	40.9	31.8	47.8

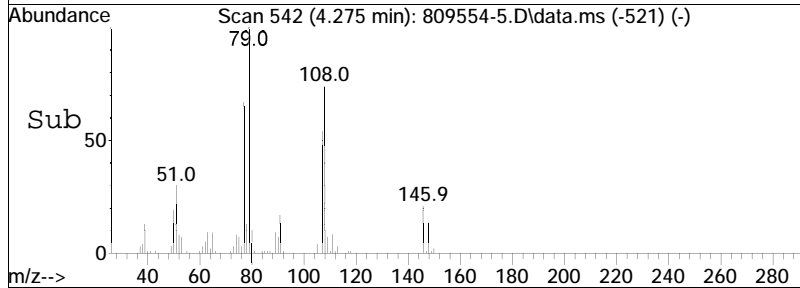
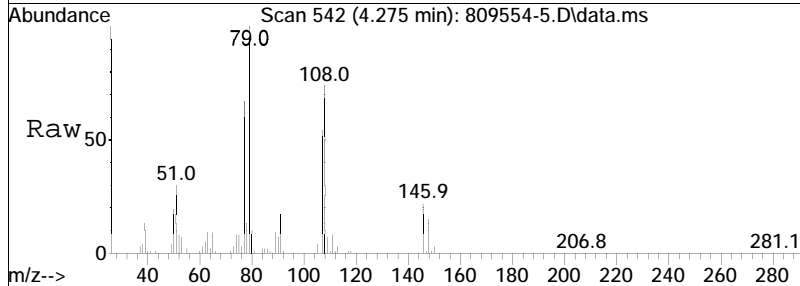
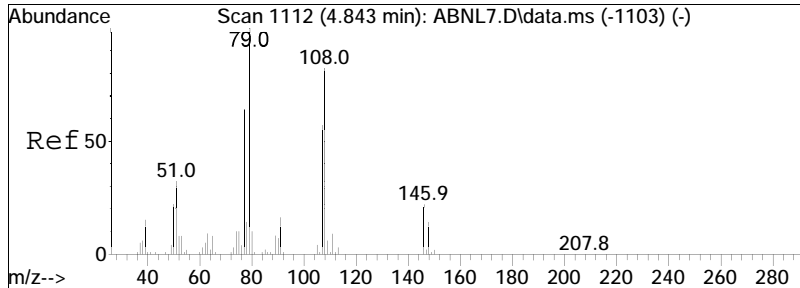




#12
 1,2-Dichlorobenzene
 Concen: 24.40 ug/ml
 RT: 4.263 min Scan# 540
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

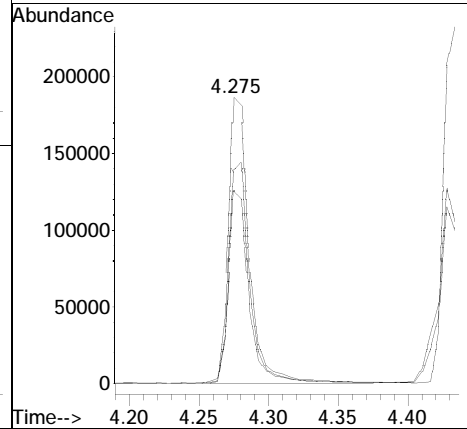
Tgt Ion	Resp	Lower	Upper
146	100		
111	41.2	32.8	49.2
148	63.6	51.4	77.2

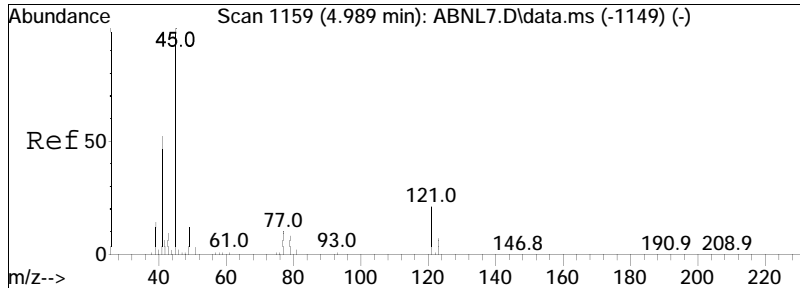




#13
 Benzyl alcohol
 Concen: 27.34 ug/ml
 RT: 4.275 min Scan# 542
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

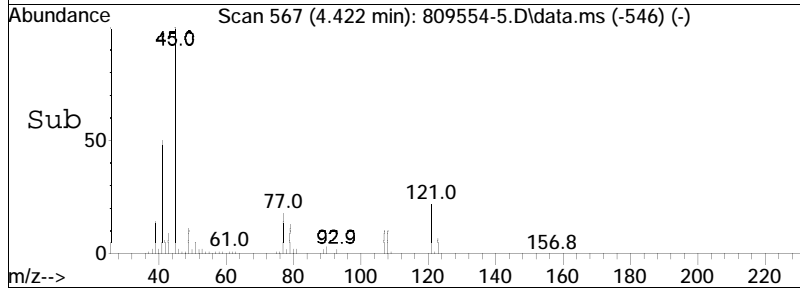
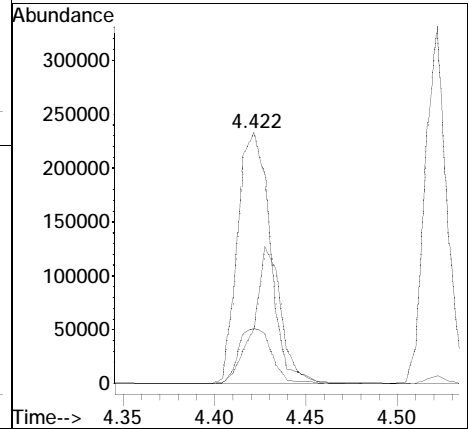
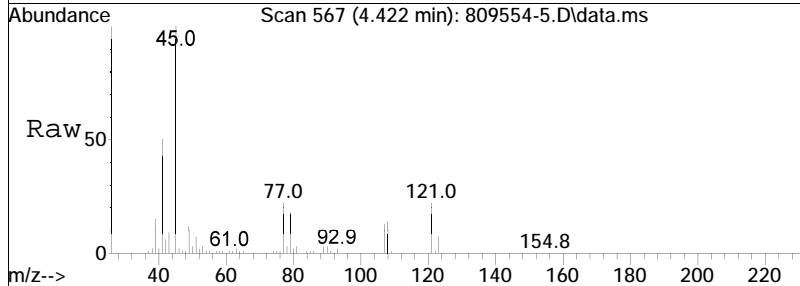
Tgt Ion:	79	Resp:	194973
Ion Ratio	Lower	Upper	
79	100		
77	67.3	52.4	78.6
108	77.9	66.7	100.1

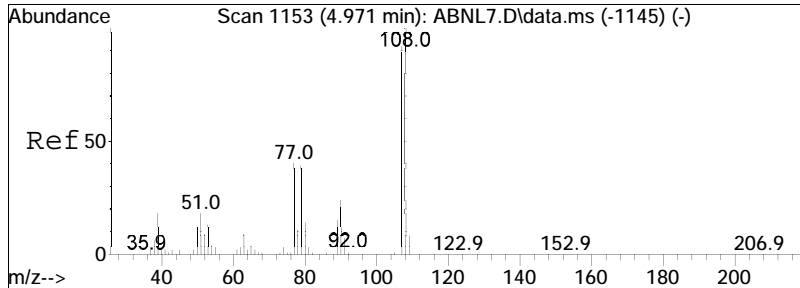




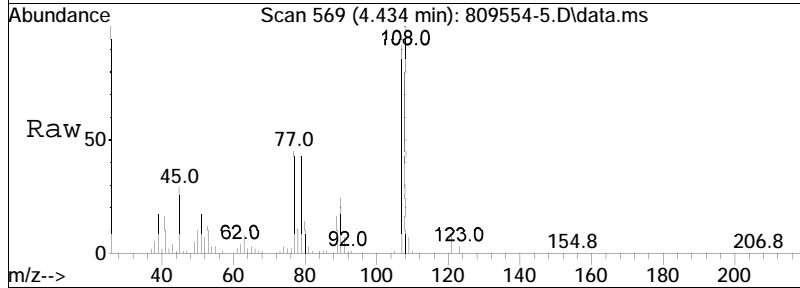
#14
 Bis(2-chloroisopropyl) ether
 Concen: 27.27 ug/ml
 RT: 4.422 min Scan# 567
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

Tgt Ion:	45	Resp:	288960
Ion Ratio	Lower	Upper	
45	100		
121	22.8	12.6	19.0#
77	46.1	24.6	37.0#

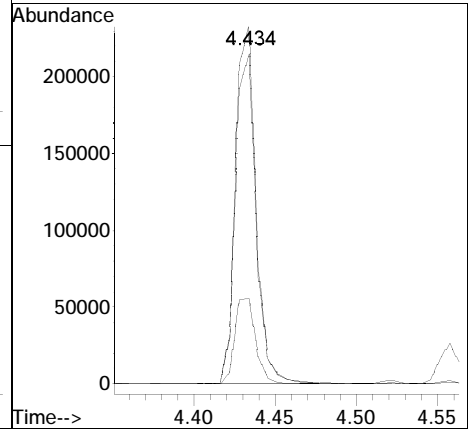
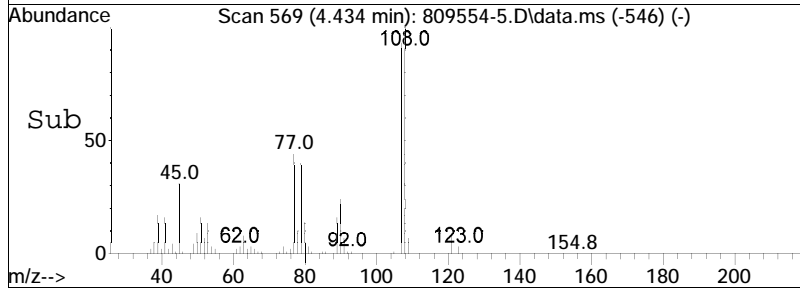


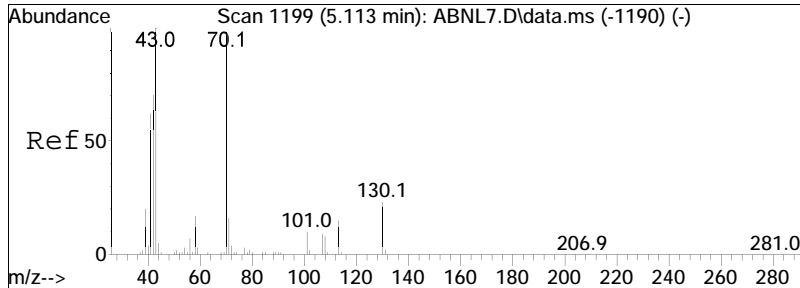


#15
 2-Methylphenol
 Concen: 27.84 ug/ml
 RT: 4.434 min Scan# 569
 Delta R.T. 0.009 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am



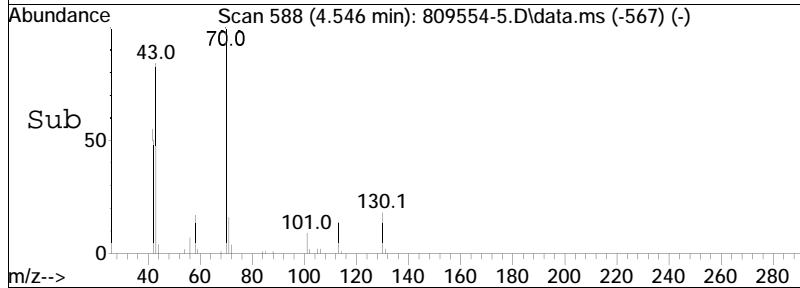
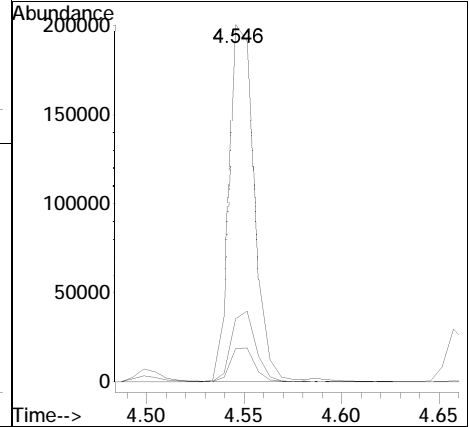
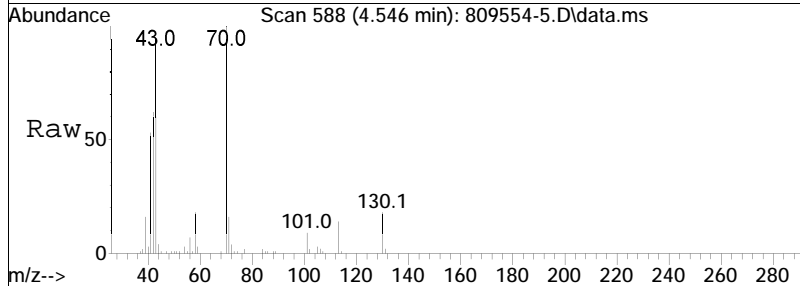
Tgt Ion	Resp	Lower	Upper
108	100		
107	93.2	72.6	108.8
90	24.6	19.2	28.8

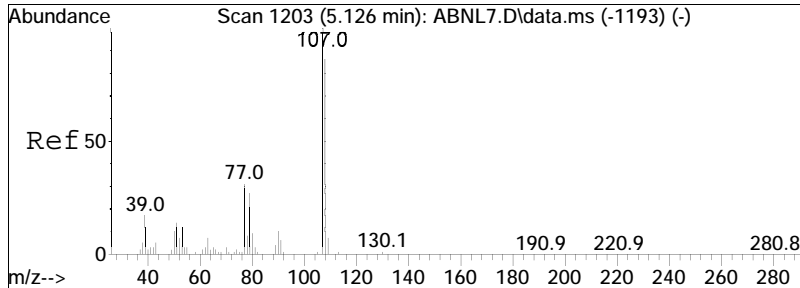




#17
 n-Nitrosodi-n-propylamine
 Concen: 27.44 ug/ml
 RT: 4.546 min Scan# 588
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

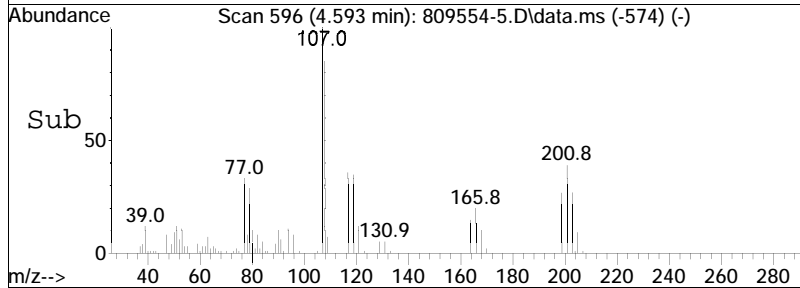
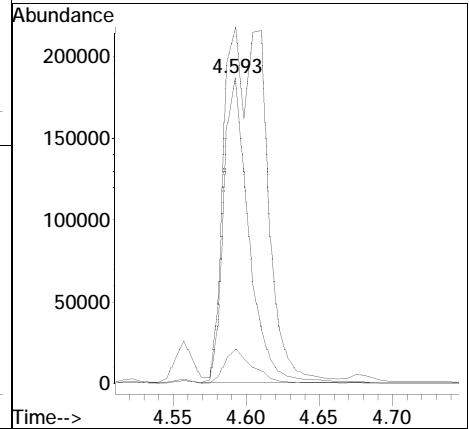
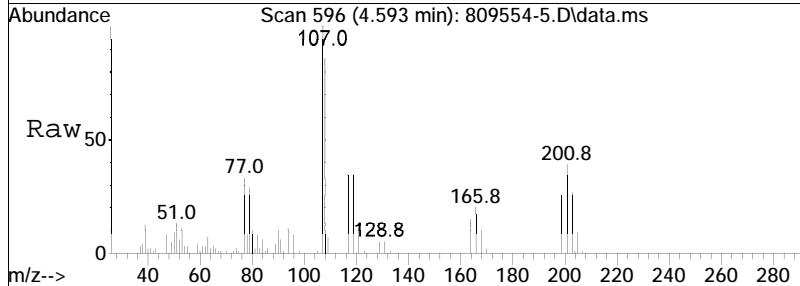
Tgt Ion	Resp	Lower	Upper
70	179169		
130	19.4	16.6	24.8
101	9.4	7.4	11.0

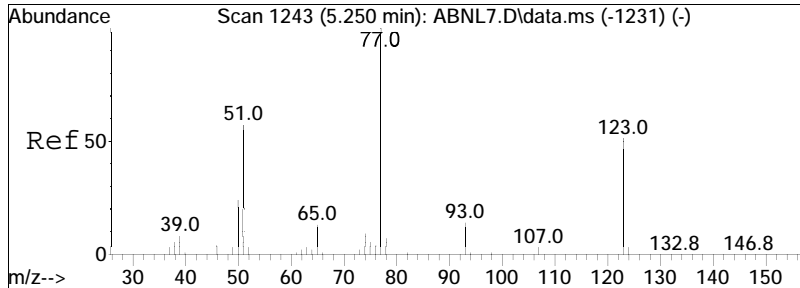




#18
 3-Methylphenol/4-Methylphenol
 Concen: 29.14 ug/ml
 RT: 4.593 min Scan# 596
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

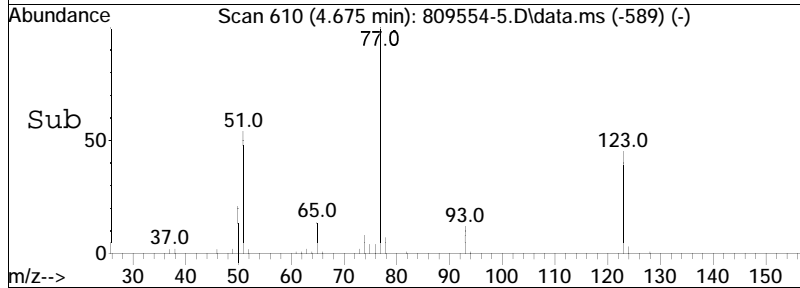
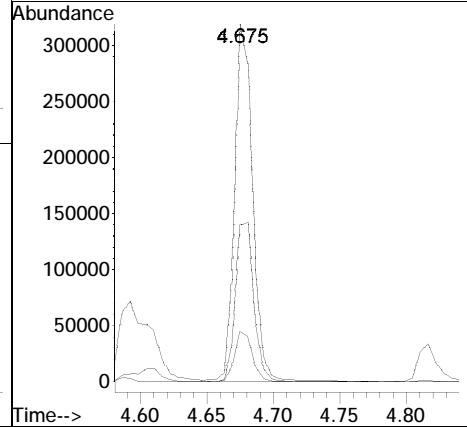
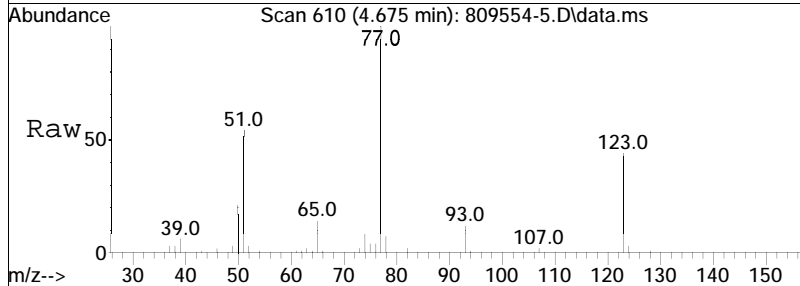
Tgt Ion	Resp	Lower	Upper
108	225312		
107	187.4	91.0	136.6#
90	12.7	8.7	13.1

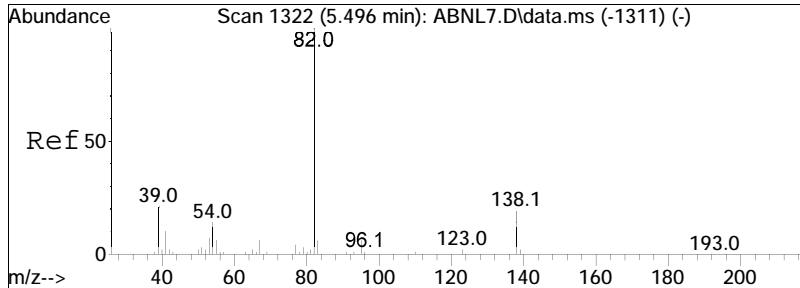




#20
 Nitrobenzene
 Concen: 32.04 ug/ml
 RT: 4.675 min Scan# 610
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

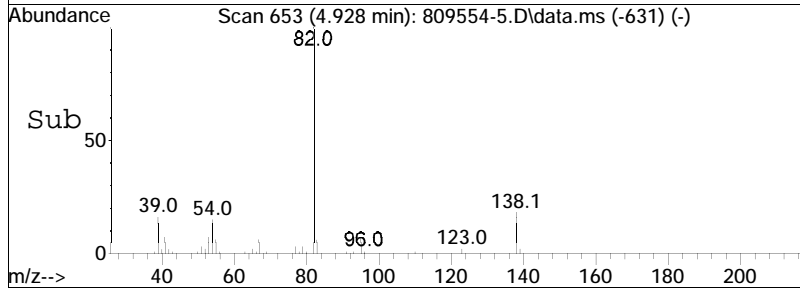
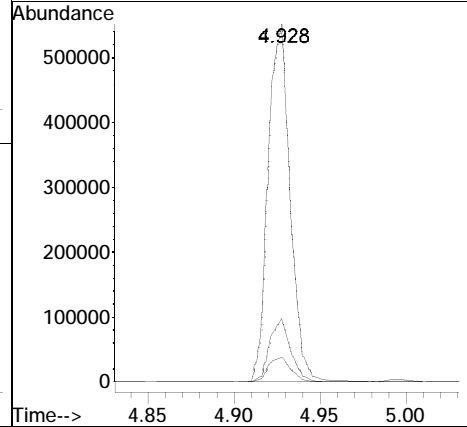
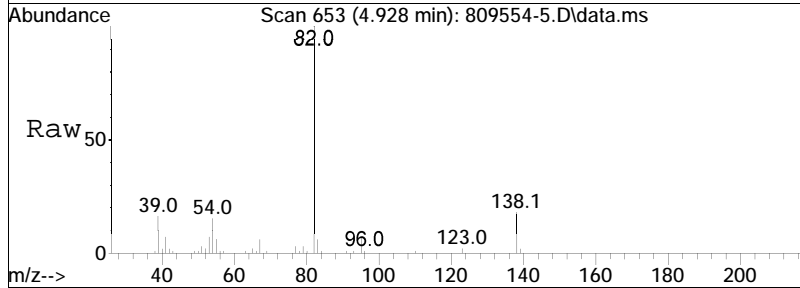
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
77	100		
123	46.6	38.5	57.7
65	14.6	11.4	17.0

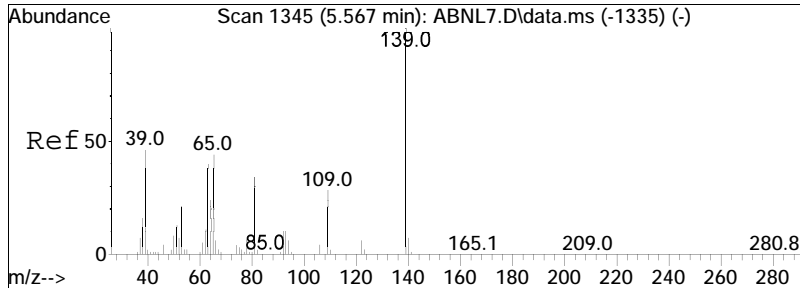




#21
 Isophorone
 Concen: 27.04 ug/ml
 RT: 4.928 min Scan# 653
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

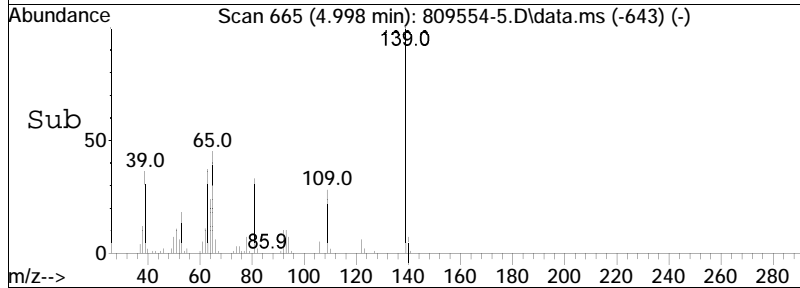
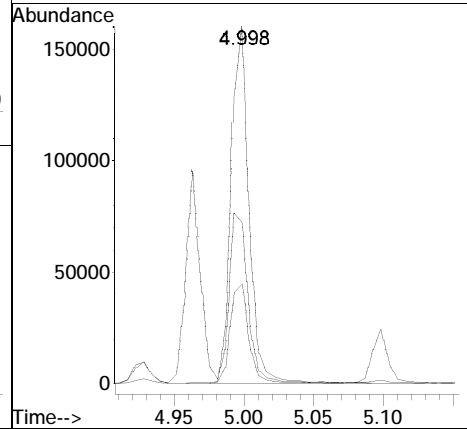
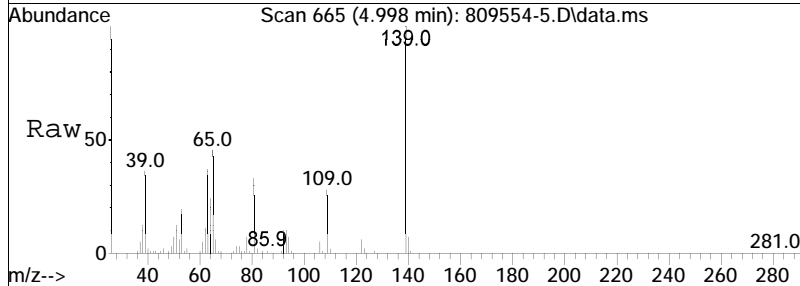
Tgt Ion	Resp	Lower	Upper
82	480266		
138	17.0	13.6	20.4
95	7.2	5.1	7.7

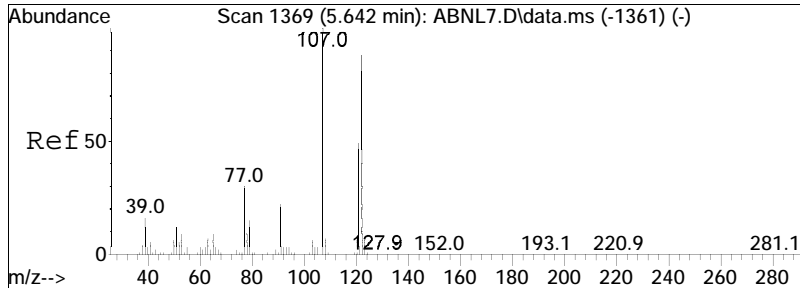




#22
 2-Nitrophenol
 Concen: 31.19 ug/ml
 RT: 4.998 min Scan# 665
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

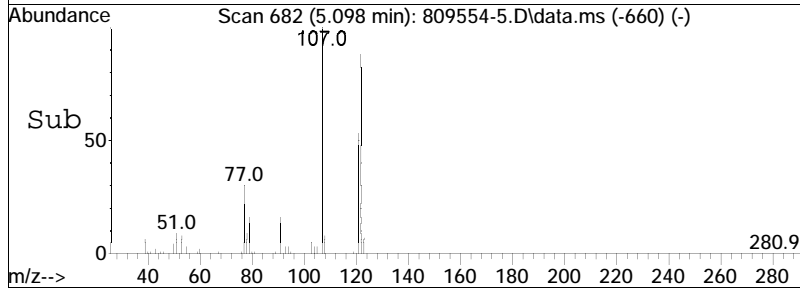
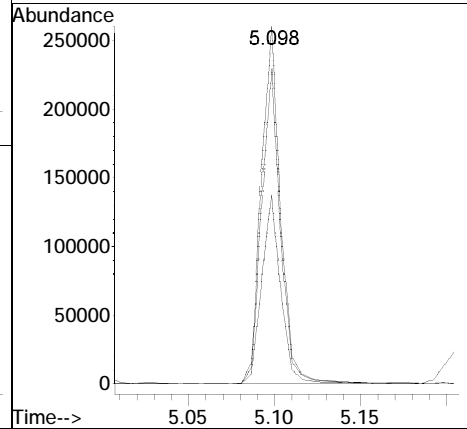
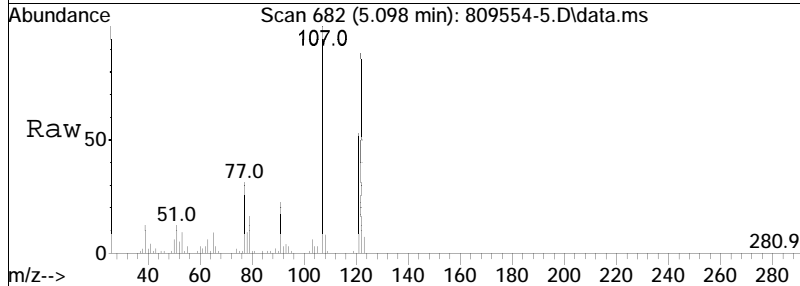
Tgt Ion	Ratio	Lower	Upper
139	100		
109	29.1	19.8	29.6
65	50.0	39.6	59.4

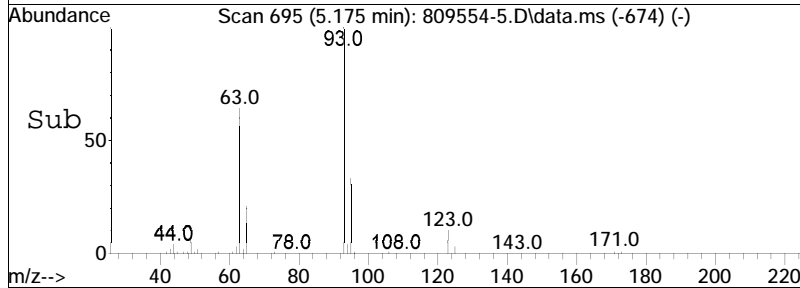
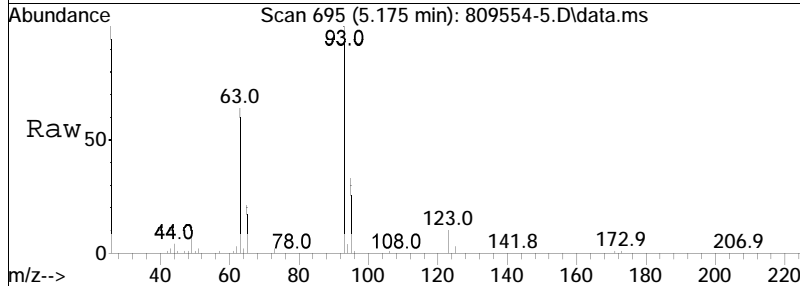
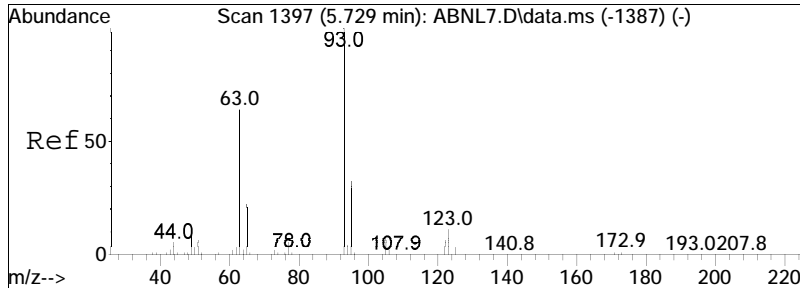




#23
 2,4-Dimethylphenol
 Concen: 23.59 ug/ml
 RT: 5.098 min Scan# 682
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

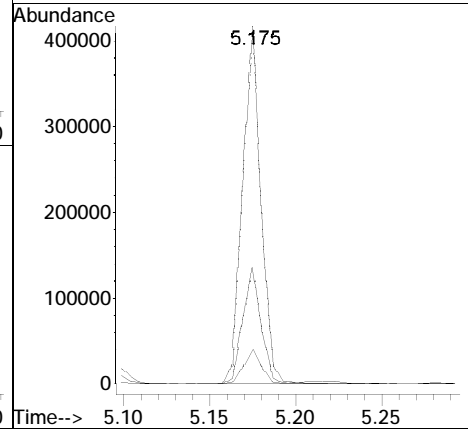
Tgt Ion	Resp	Lower	Upper
107	100		
121	52.5	43.0	64.4
122	86.0	71.8	107.8

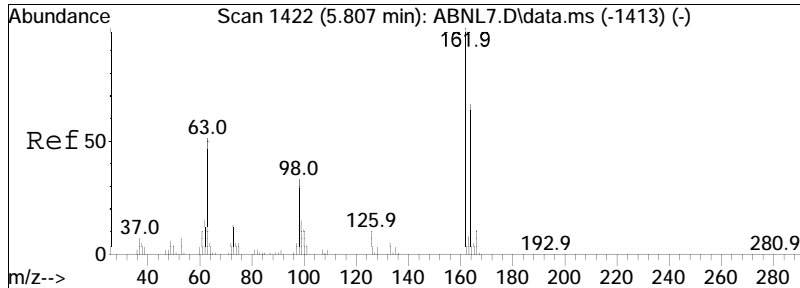




#24
 Bis(2-chloroethoxy)methane
 Concen: 28.20 ug/ml
 RT: 5.175 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

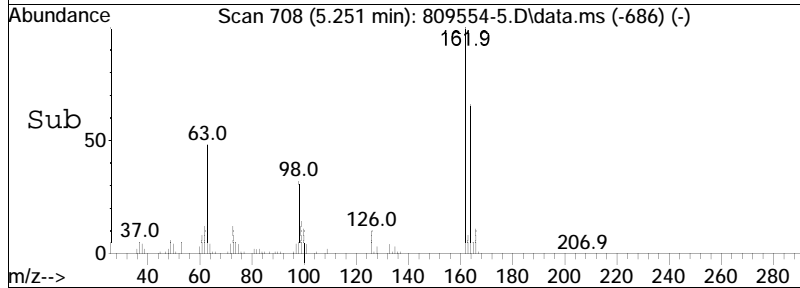
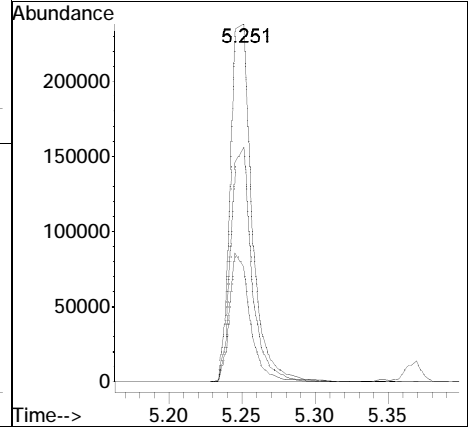
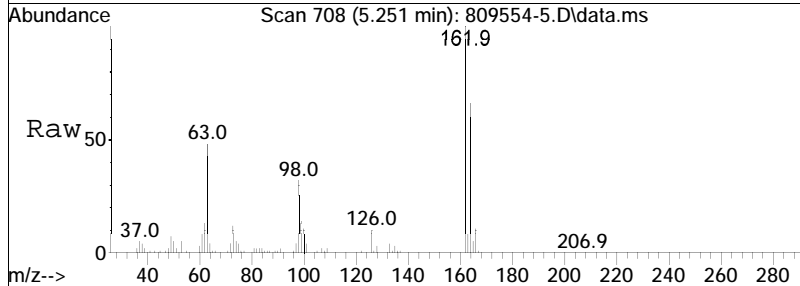
Tgt Ion	Resp	Lower	Upper
93	100		
95	32.7	26.6	40.0
123	9.5	11.0	16.4#

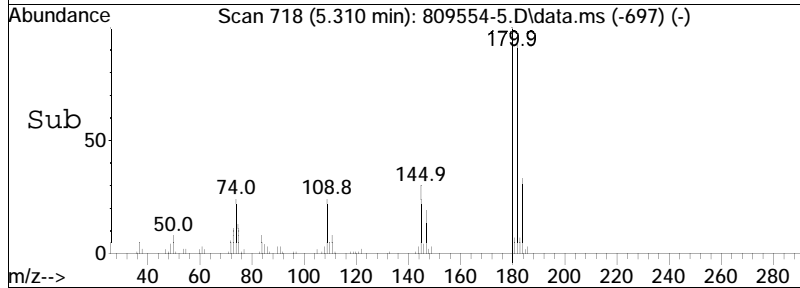
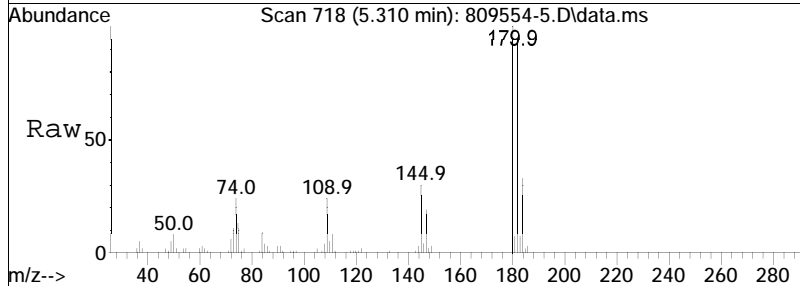
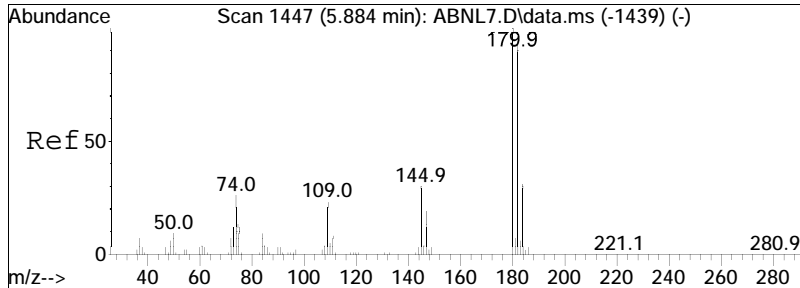




#25
 2,4-Dichlorophenol
 Concen: 32.59 ug/ml
 RT: 5.251 min Scan# 708
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

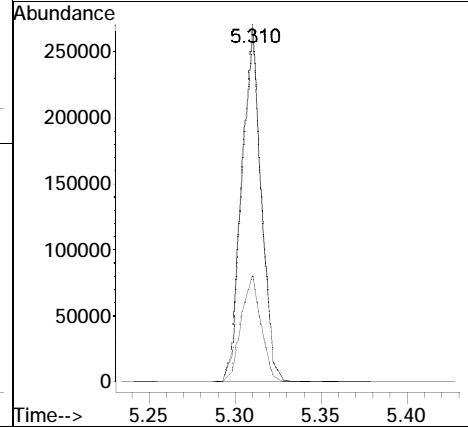
Tgt Ion	Resp	Lower	Upper
162	100		
164	64.1	51.6	77.4
98	34.4	29.4	44.2

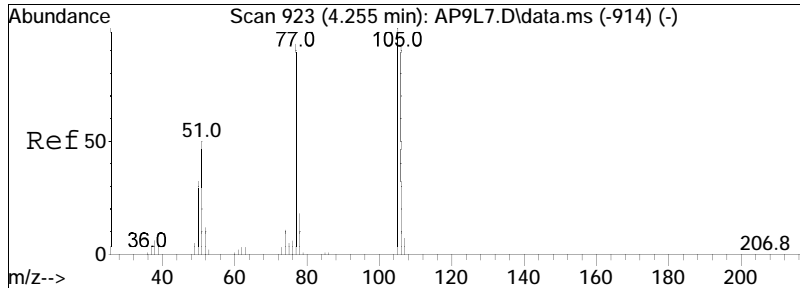




#26
 1,2,4-Trichlorobenzene
 Concen: 25.27 ug/ml
 RT: 5.310 min Scan# 718
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

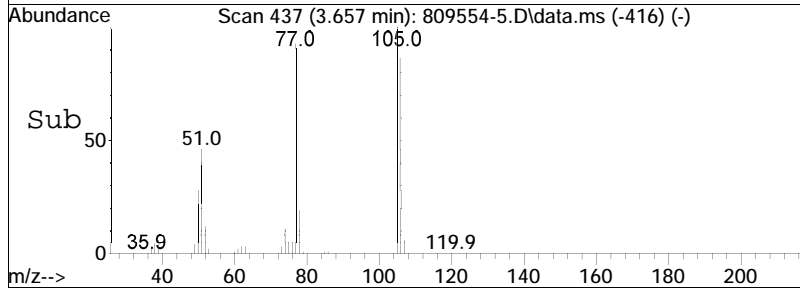
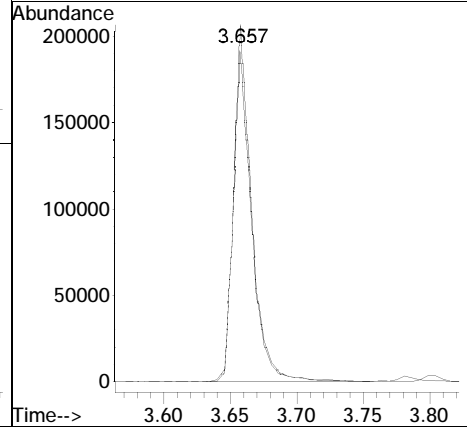
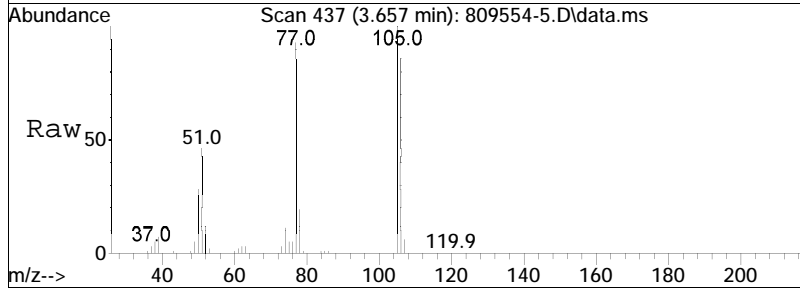
Tgt Ion	Resp	Lower	Upper
180	100		
182	96.3	77.0	115.6
145	30.2	25.2	37.8

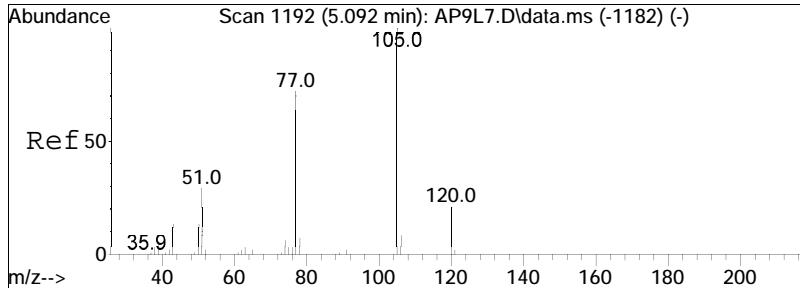




#28
 Benzaldehyde
 Concen: 36.84 ug/ml
 RT: 3.657 min Scan# 437
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

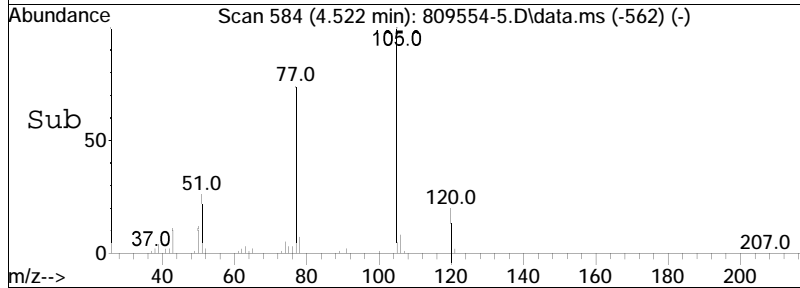
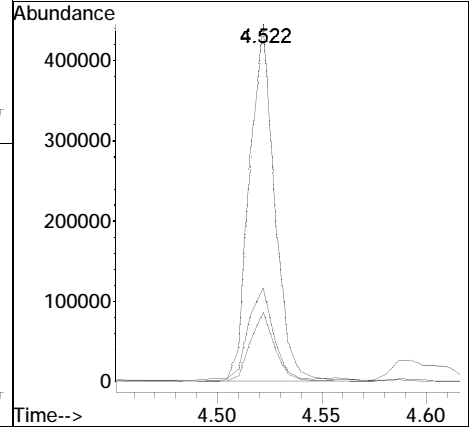
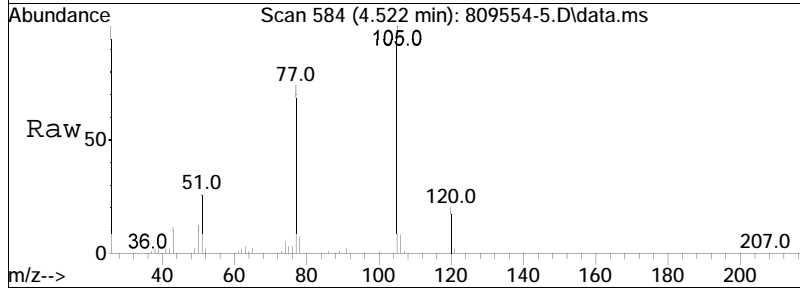
Tgt Ion	Ratio	Lower	Upper
105	100		
77	92.9	76.9	115.3

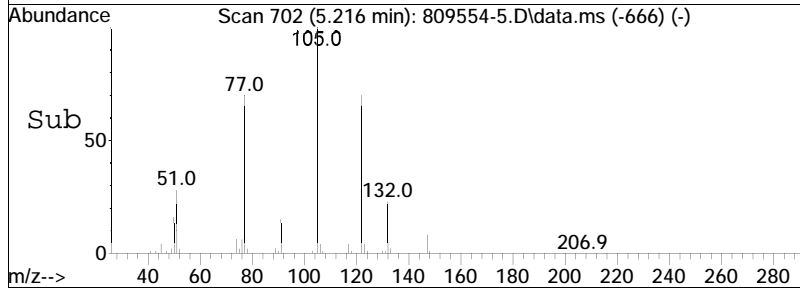
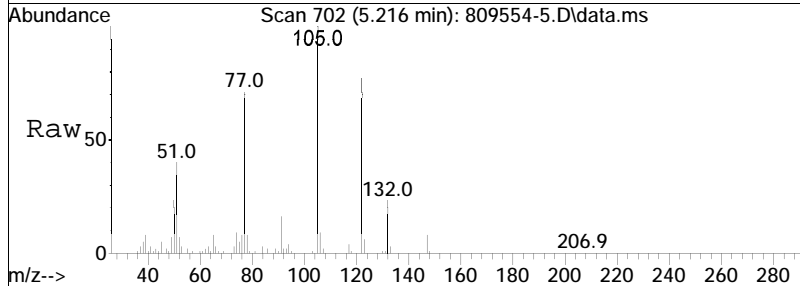
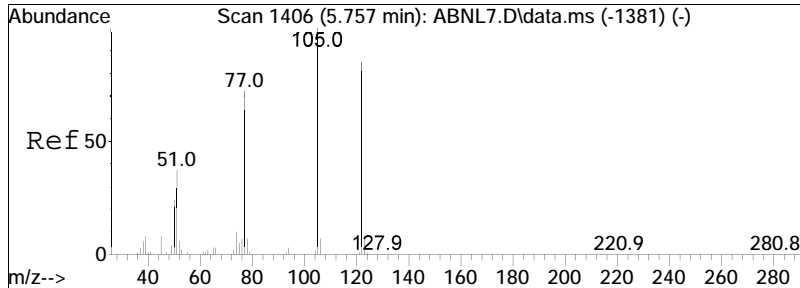




#29
 Acetophenone
 Concen: 32.06 ug/ml
 RT: 4.522 min Scan# 584
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

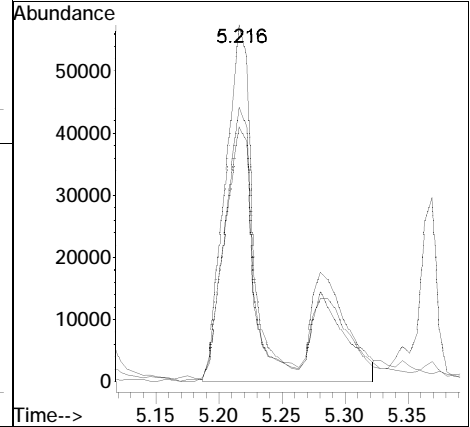
Tgt Ion	Ratio	Lower	Upper
105	100		
120	19.0	15.9	23.9
51	26.7	25.2	37.8

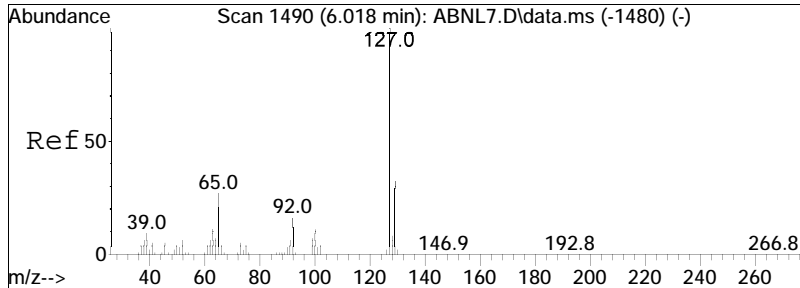




#37
 Benzoic Acid
 Concen: 19.00 ug/ml M3
 RT: 5.216 min Scan# 702
 Delta R.T. -0.038 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

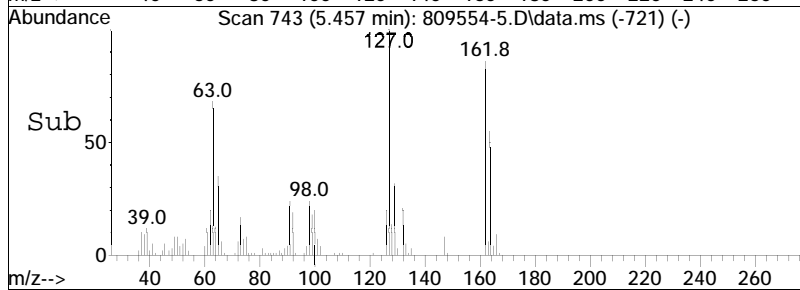
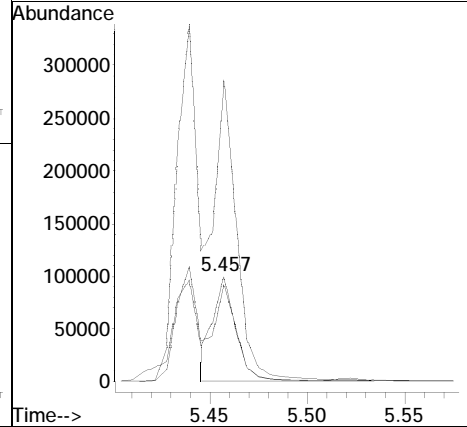
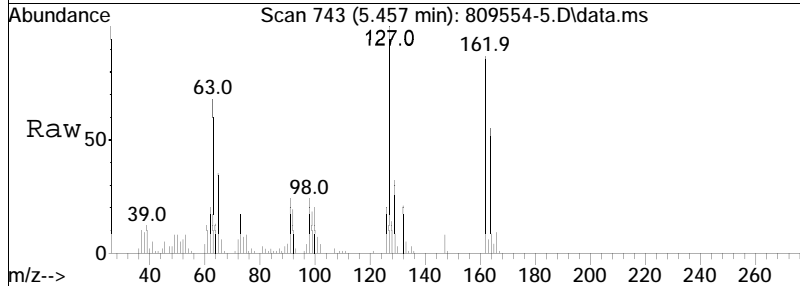
Tgt Ion	Resp	Lower	Upper
105	122947		
122	24.8	67.0	100.4#
77	20.6	58.8	88.2#

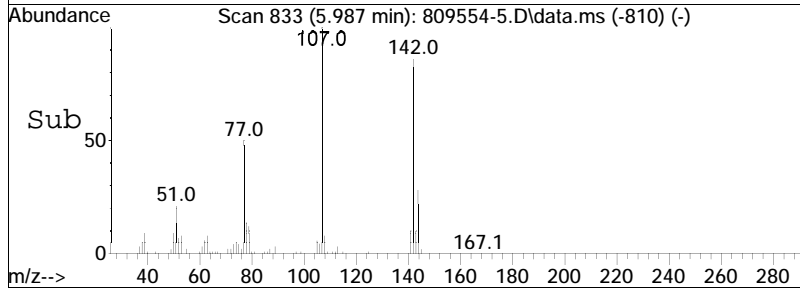
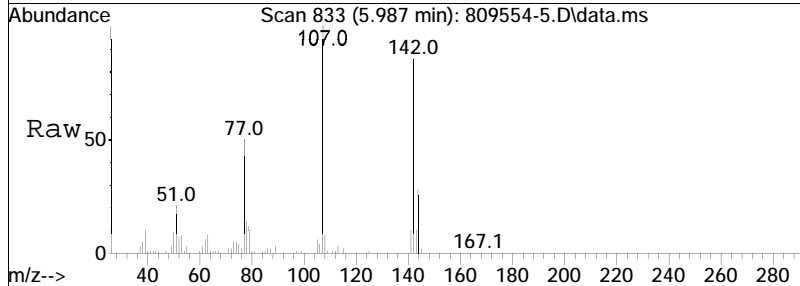
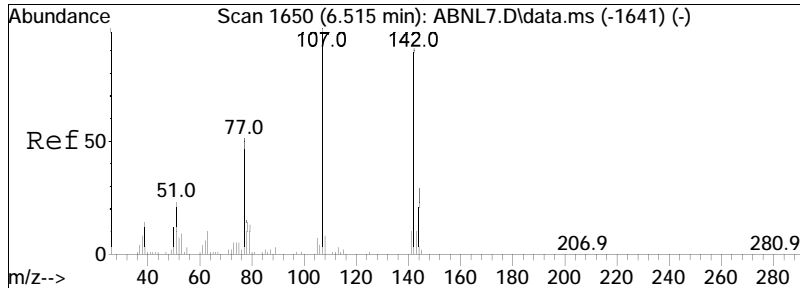




#38
 4-Chloroaniline
 Concen: 23.49 ug/ml
 RT: 5.457 min Scan# 743
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

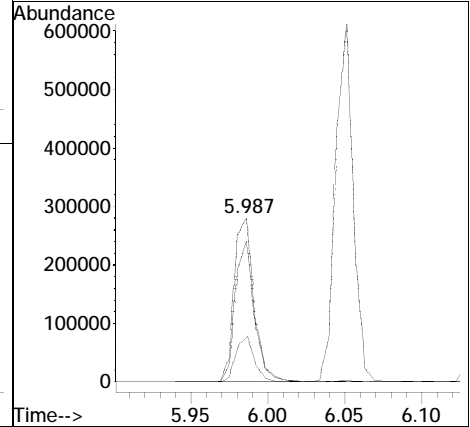
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
65	100		
127	0.0	274.4	411.6#
129	72.2	88.2	132.4#

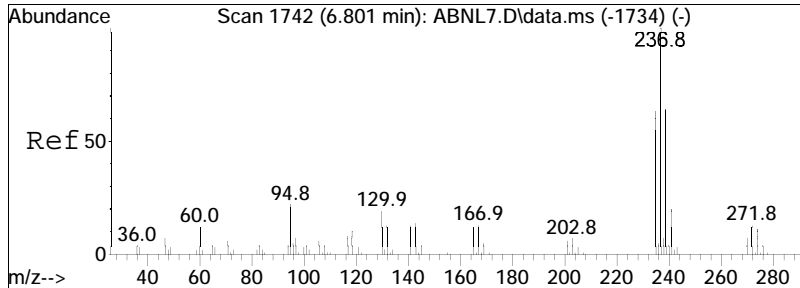




#40
 p-Chloro-m-cresol
 Concen: 30.65 ug/ml
 RT: 5.987 min Scan# 833
 Delta R.T. 0.009 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

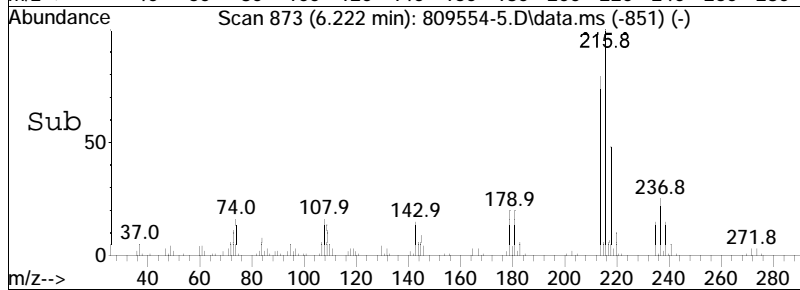
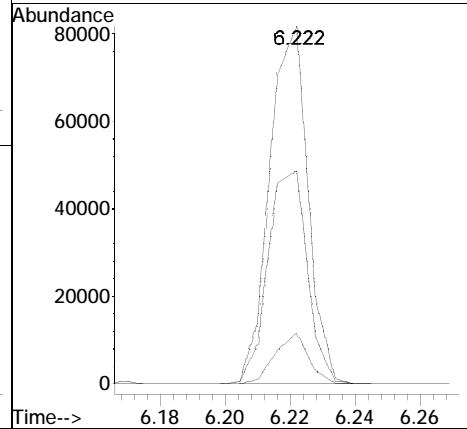
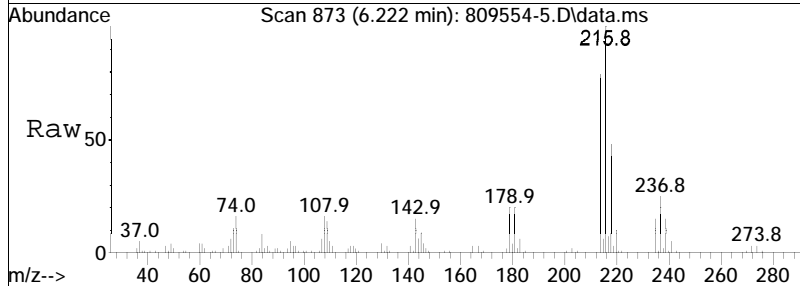
Tgt Ion	Resp	Lower	Upper
107	100		
144	26.3	21.5	32.3
142	82.0	66.8	100.2

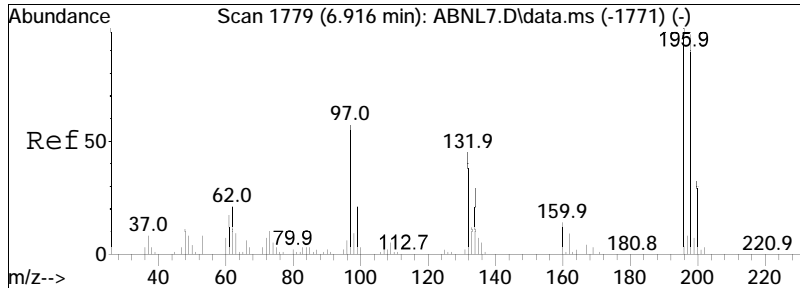




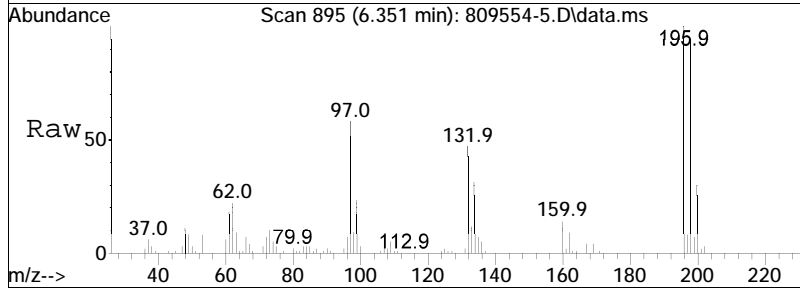
#43
 Hexachlorocyclopentadiene
 Concen: 17.87 ug/ml
 RT: 6.222 min Scan# 873
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

Tgt Ion	Resp	Lower	Upper
237	100		
235	61.6	49.5	74.3
272	12.6	10.2	15.4

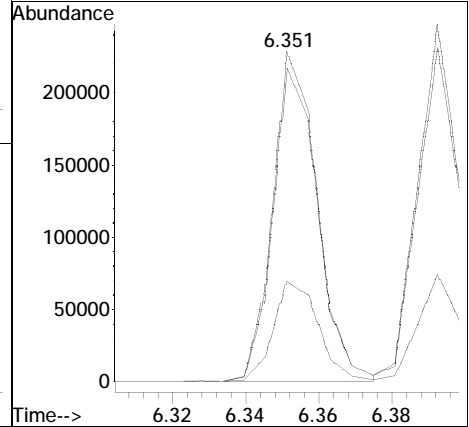
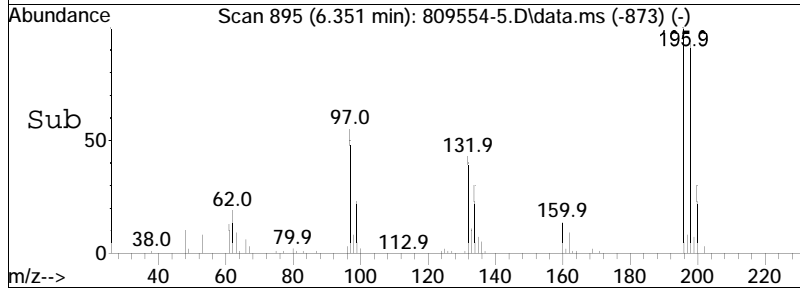


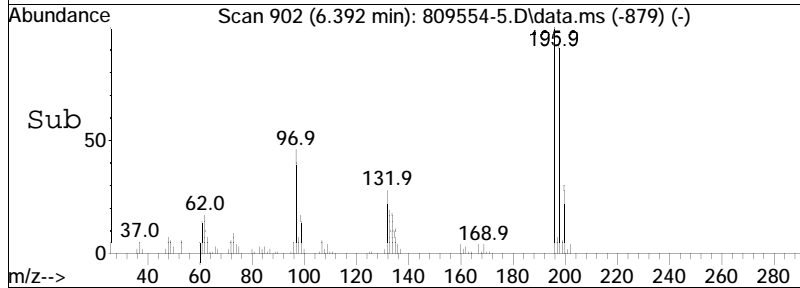
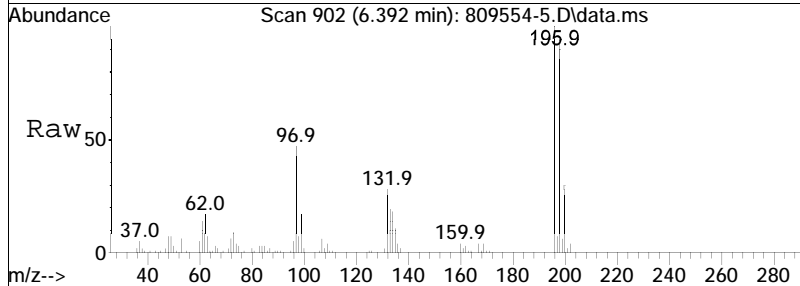
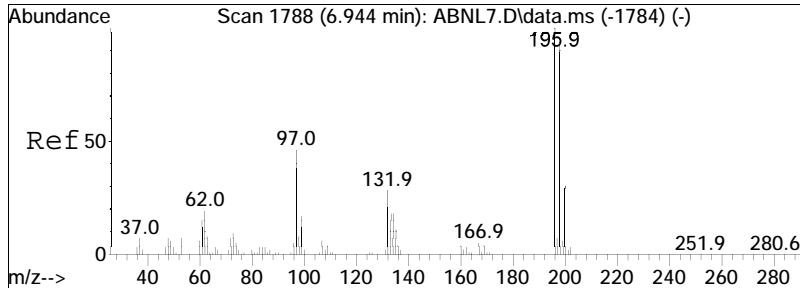


#44
 2,4,6-Trichlorophenol
 Concen: 33.30 ug/ml
 RT: 6.351 min Scan# 895
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am



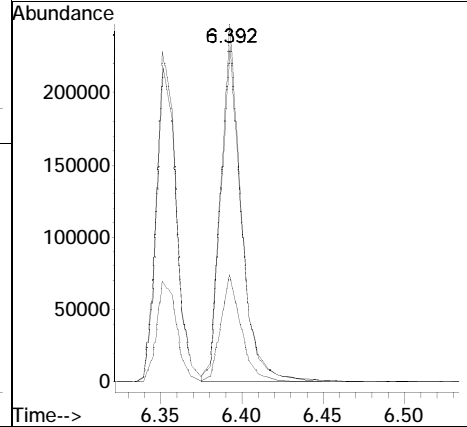
Tgt Ion	Ratio	Lower	Upper
196	100		
198	95.4	76.4	114.6
200	30.9	24.4	36.6

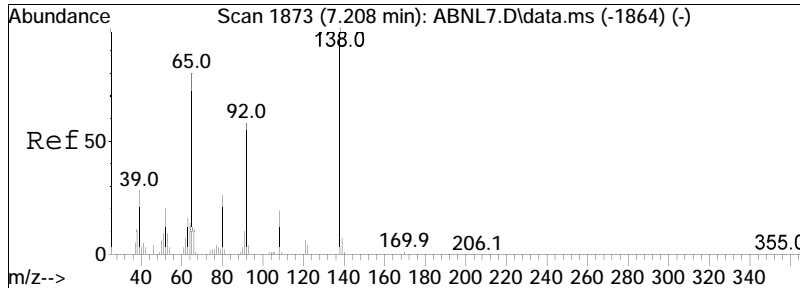




#45
 2,4,5-Trichlorophenol
 Concen: 33.67 ug/ml
 RT: 6.392 min Scan# 902
 Delta R.T. 0.009 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

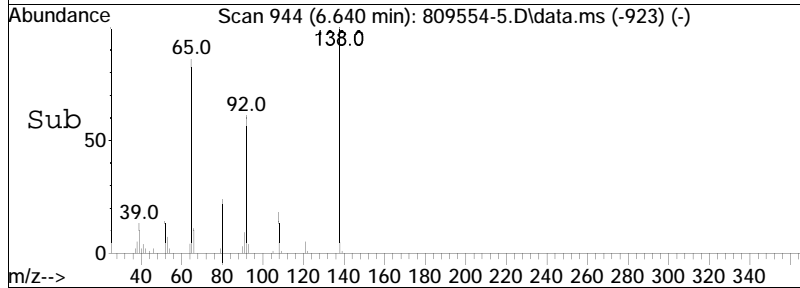
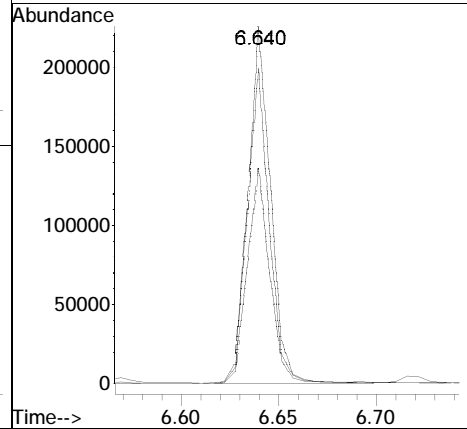
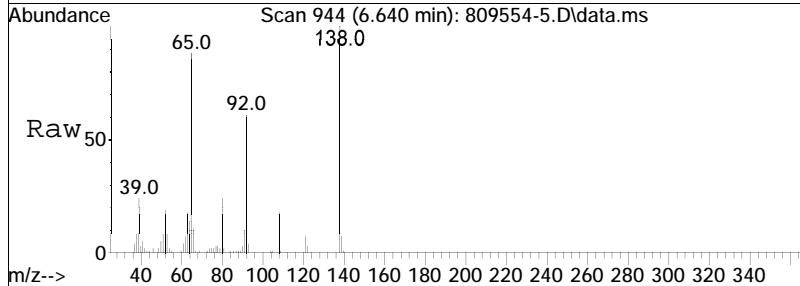
Tgt Ion	Resp	Lower	Upper
196	100		
200	30.5	25.2	37.8
198	94.3	77.7	116.5

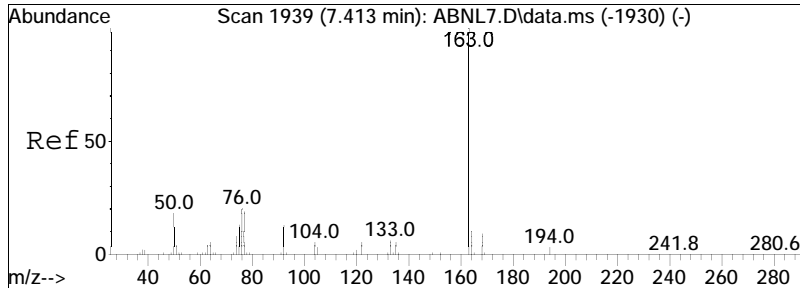




#48
 2-Nitroaniline
 Concen: 28.81 ug/ml
 RT: 6.640 min Scan# 944
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

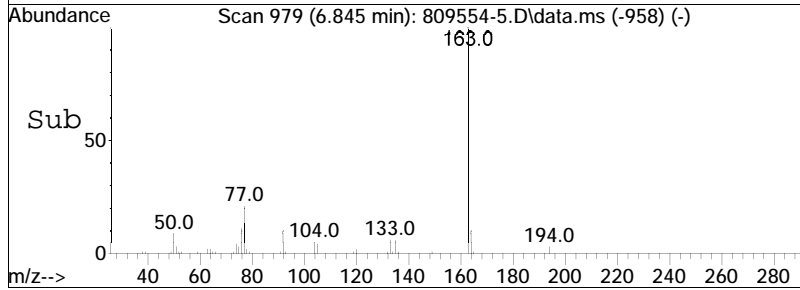
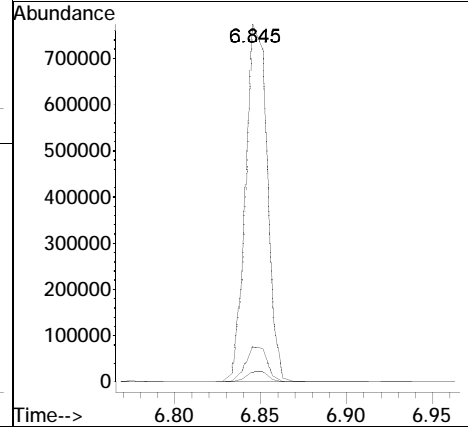
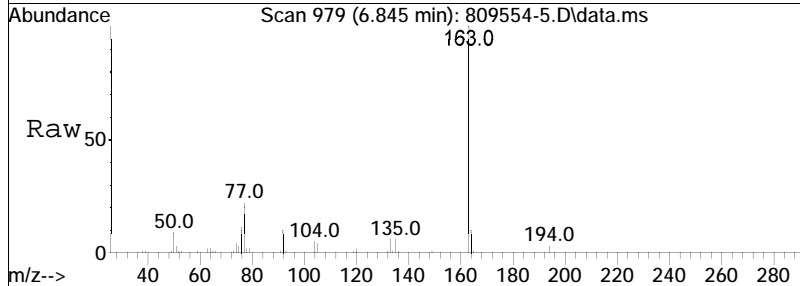
Tgt Ion	Resp	Lower	Upper
138	100		
92	61.0	48.0	72.0
65	88.7	72.8	109.2

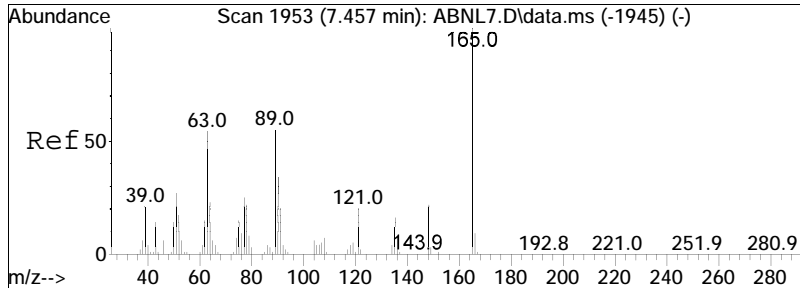




#51
 Dimethyl phthalate
 Concen: 29.16 ug/ml
 RT: 6.845 min Scan# 979
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

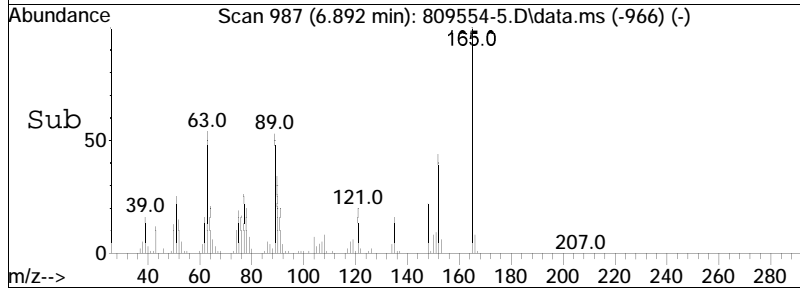
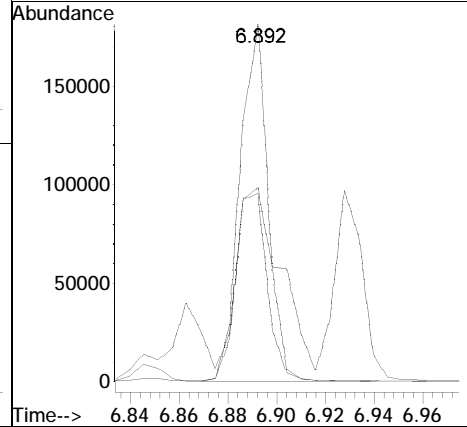
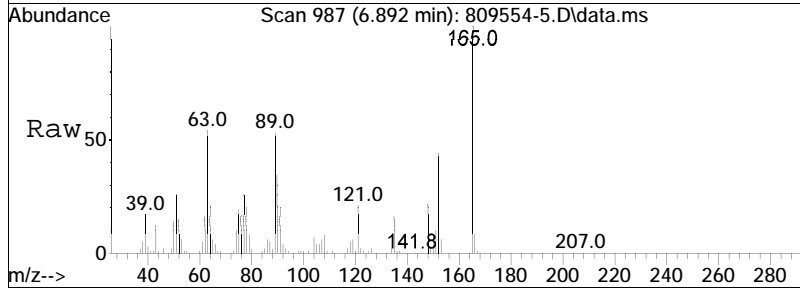
Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.1	2.4	3.6
164	10.0	8.1	12.1

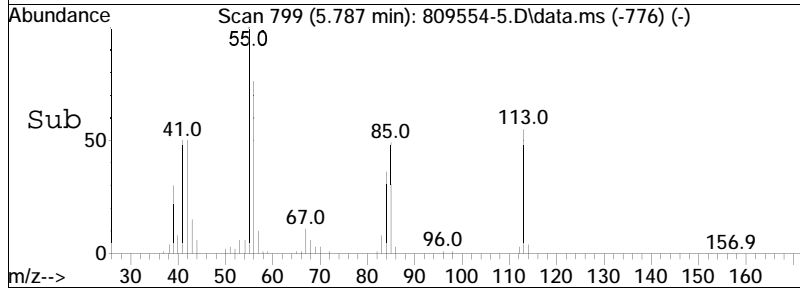
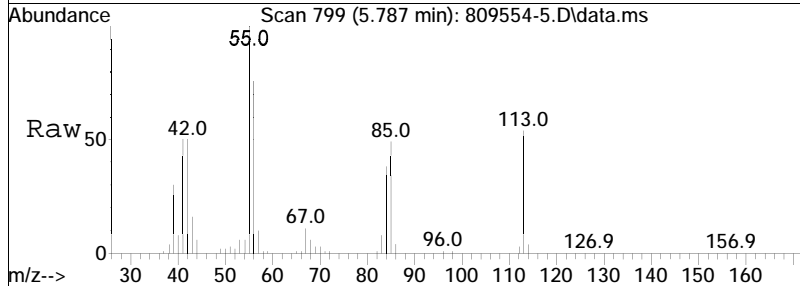
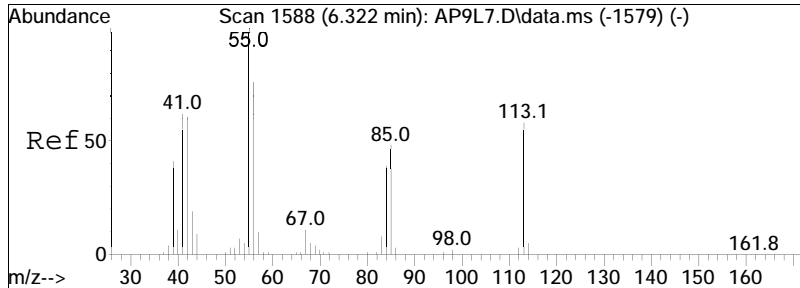




#53
 2,6-Dinitrotoluene
 Concen: 29.56 ug/ml
 RT: 6.892 min Scan# 987
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

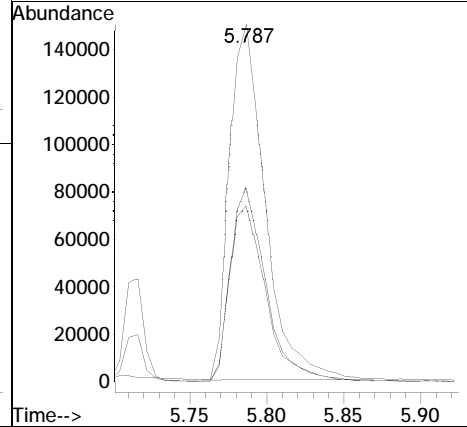
Tgt Ion	Ratio	Lower	Upper
165	100		
89	59.6	44.7	67.1
63	87.4	48.2	72.4#

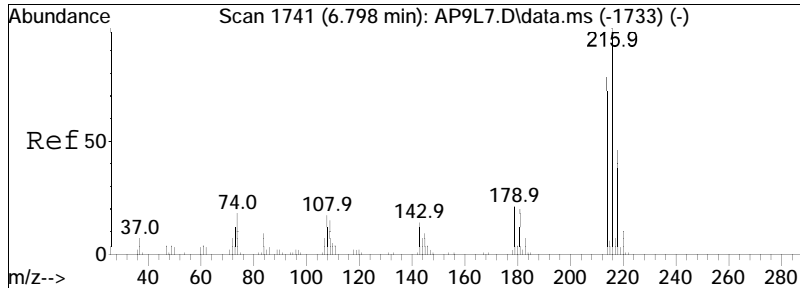




#60
 Caprolactam
 Concen: 60.94 ug/ml
 RT: 5.787 min Scan# 799
 Delta R.T. 0.009 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

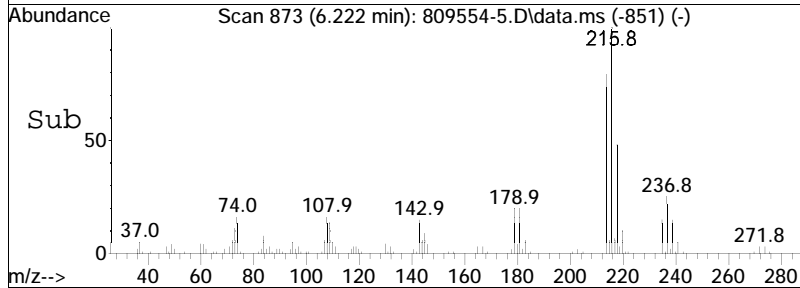
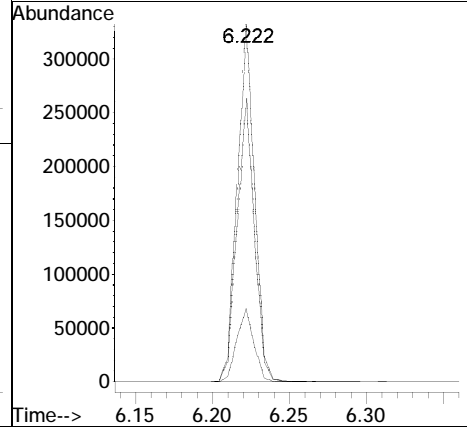
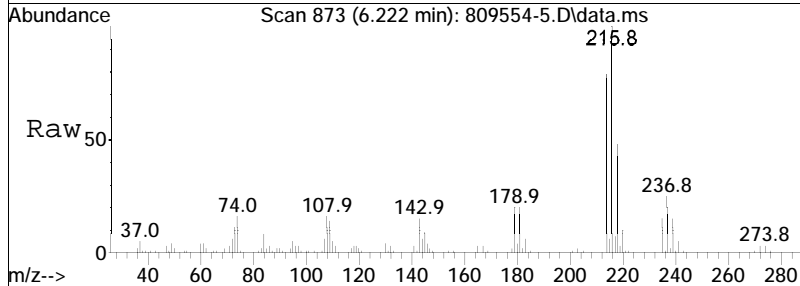
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
55	100		
85	50.3	30.9	46.3#
113	54.1	34.7	52.1#

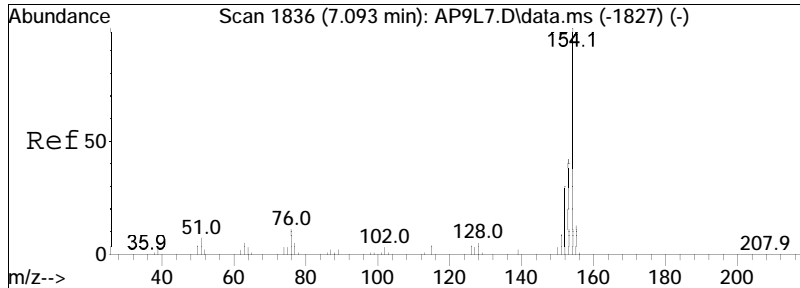




#61
 1,2,4,5-Tetrachlorobenzene
 Concen: 27.81 ug/ml
 RT: 6.222 min Scan# 873
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

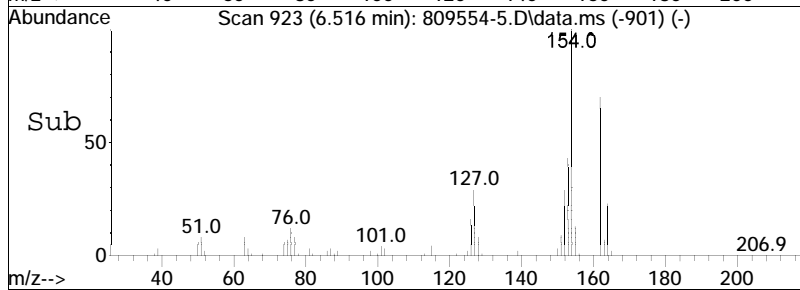
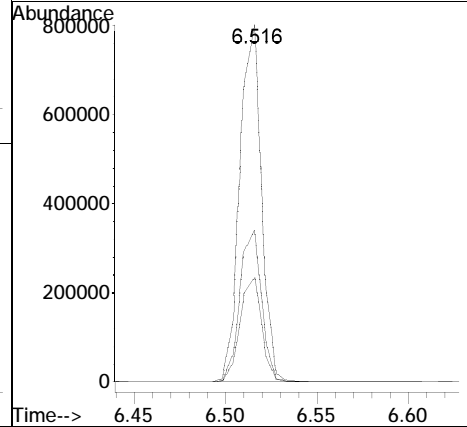
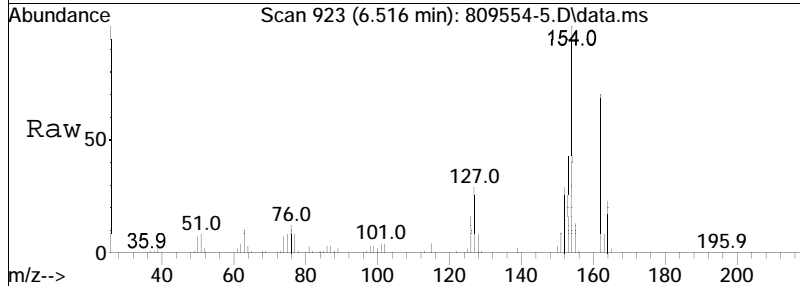
Tgt Ion	Ratio	Lower	Upper
216	100		
214	79.4	62.2	93.4
179	20.7	17.4	26.2

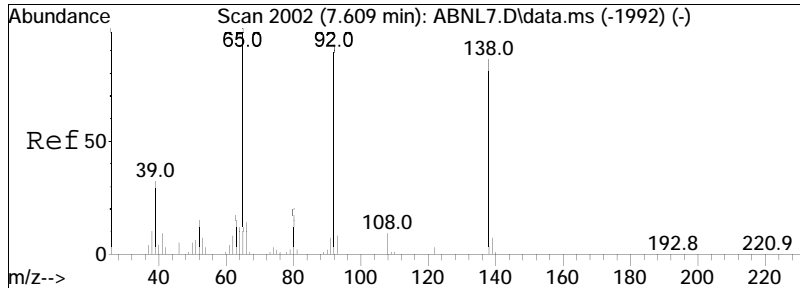




#62
 Biphenyl
 Concen: 30.09 ug/ml
 RT: 6.516 min Scan# 923
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

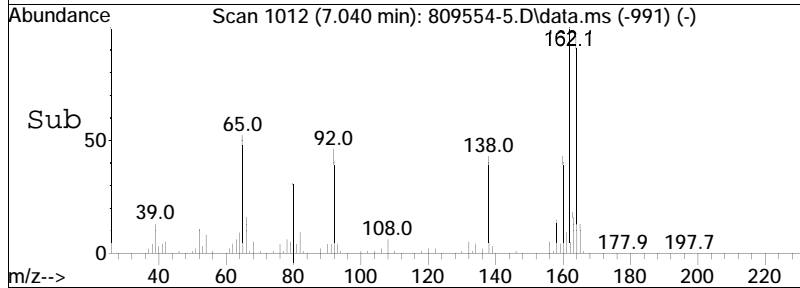
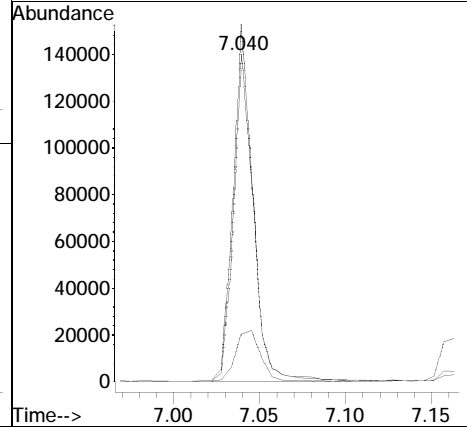
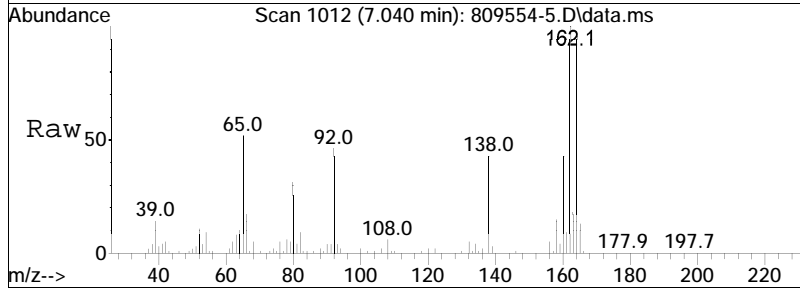
Tgt Ion	Ratio	Lower	Upper
154	100		
153	42.9	33.4	50.0
152	29.4	23.0	34.6

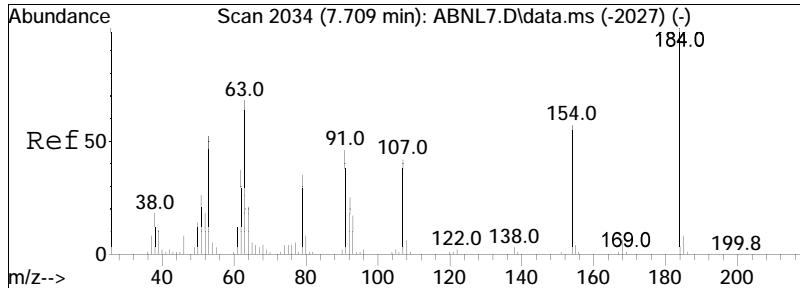




#64
 3-Nitroaniline
 Concen: 19.34 ug/ml
 RT: 7.040 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

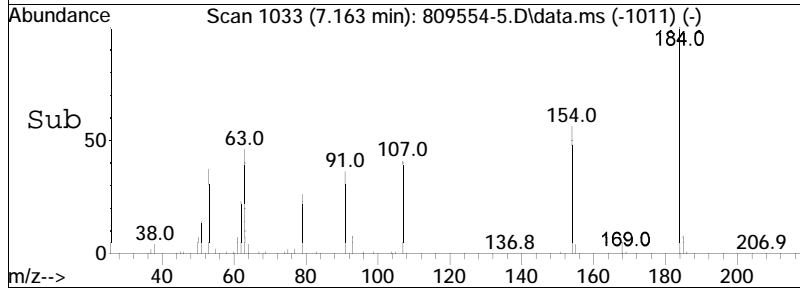
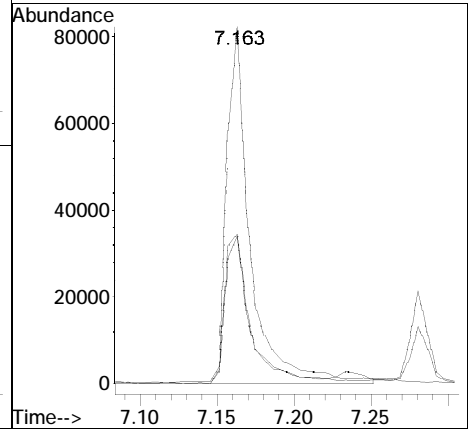
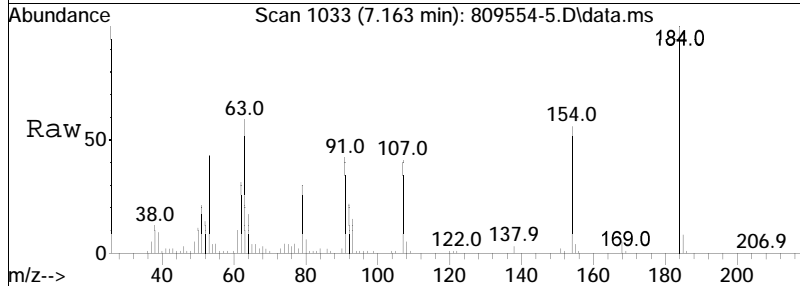
Tgt Ion	Ratio	Lower	Upper
138	100		
92	108.8	86.4	129.6
108	20.1	9.4	14.0#

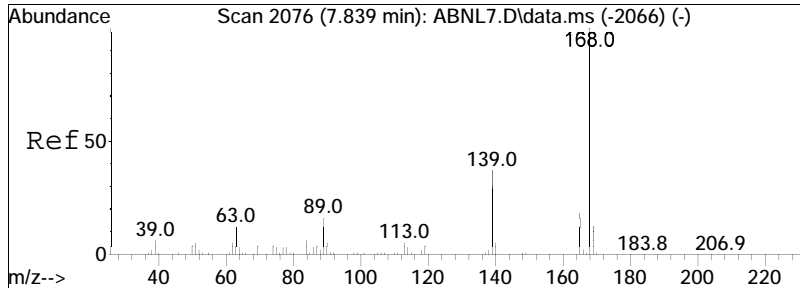




#66
 2,4-Dinitrophenol
 Concen: 32.62 ug/ml
 RT: 7.163 min Scan# 1033
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

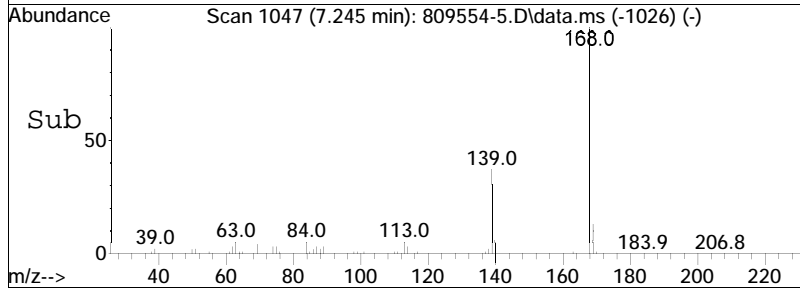
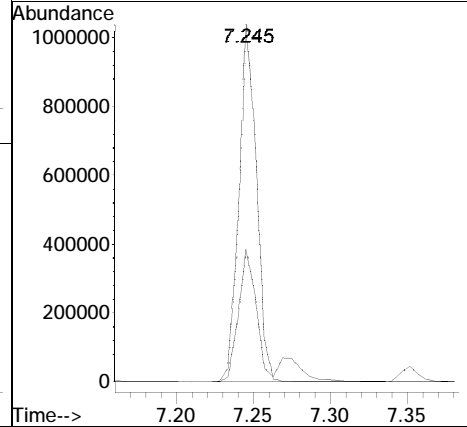
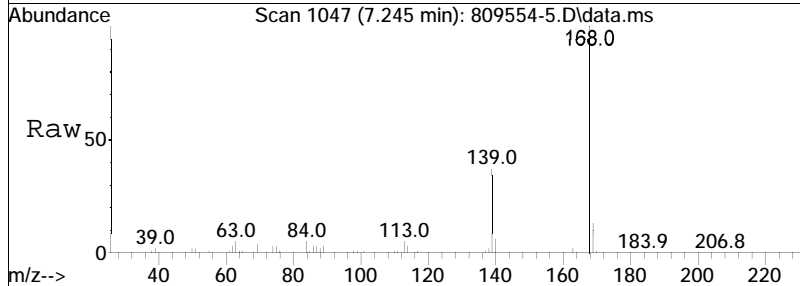
Tgt Ion	Resp	Lower	Upper
184	100		
107	45.6	37.3	55.9
91	46.3	43.8	65.6

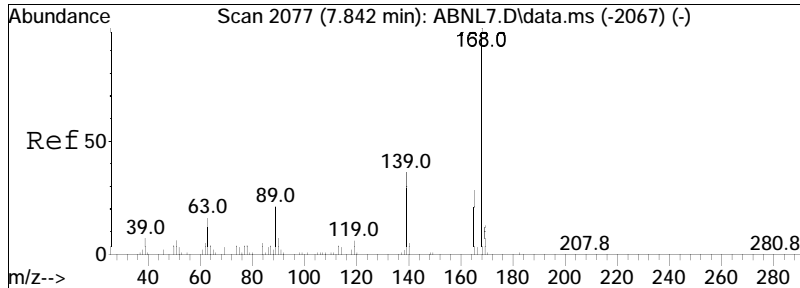




#67
 Dibenzofuran
 Concen: 28.83 ug/ml
 RT: 7.245 min Scan# 1047
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

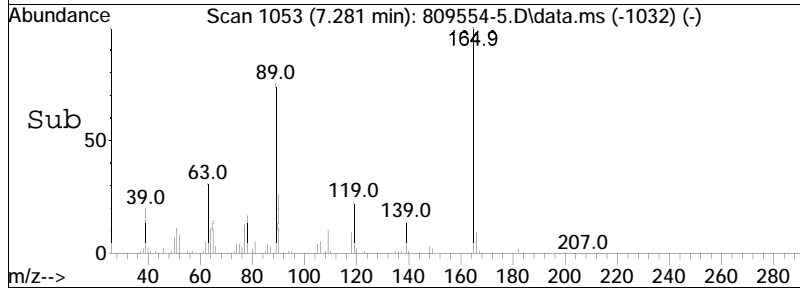
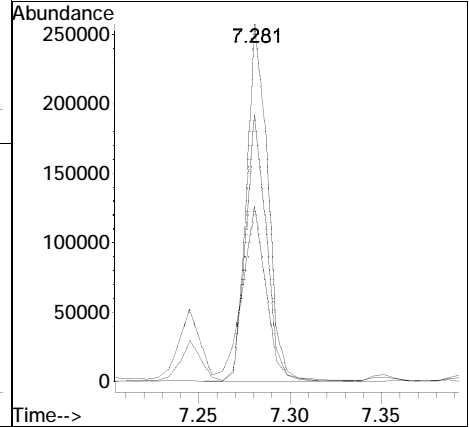
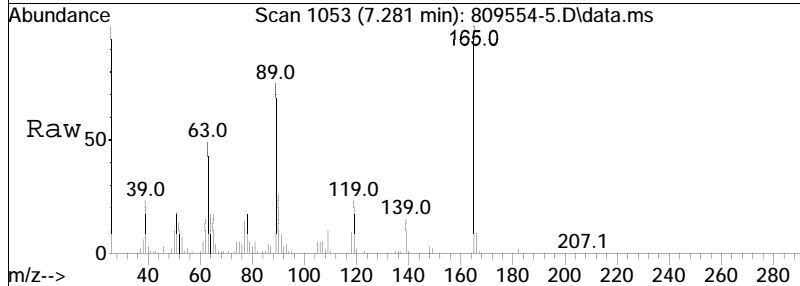
Tgt Ion	Resp	Lower	Upper
168	100		
139	37.8	30.4	45.6

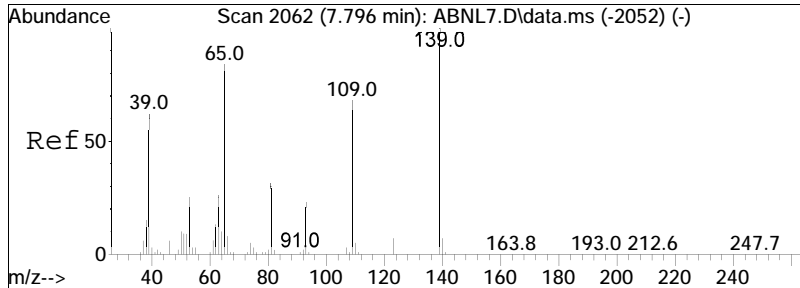




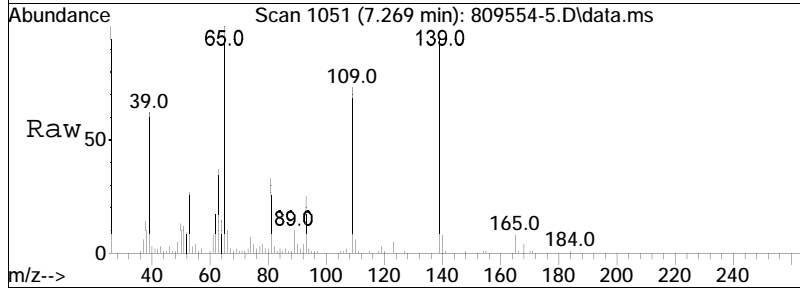
#68
 2,4-Dinitrotoluene
 Concen: 31.32 ug/ml
 RT: 7.281 min Scan# 1053
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

Tgt Ion	Ratio	Lower	Upper
165	100		
89	72.7	69.8	104.8
63	55.1	59.2	88.8#

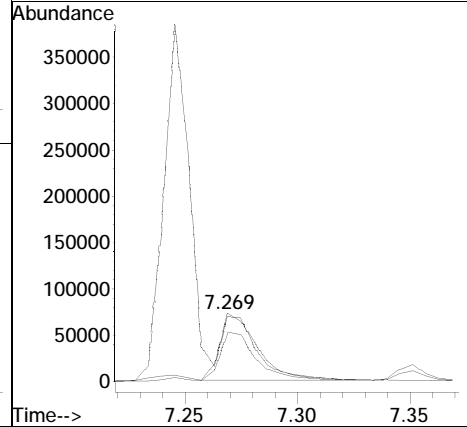
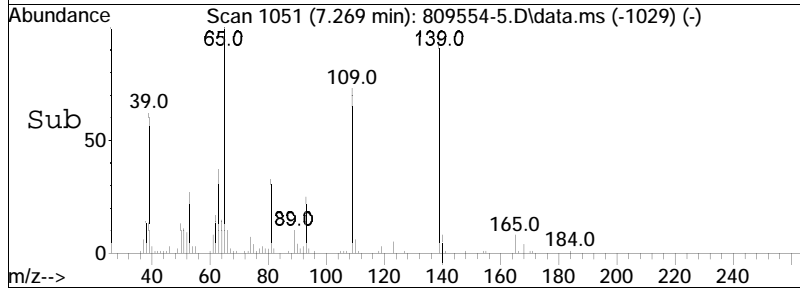


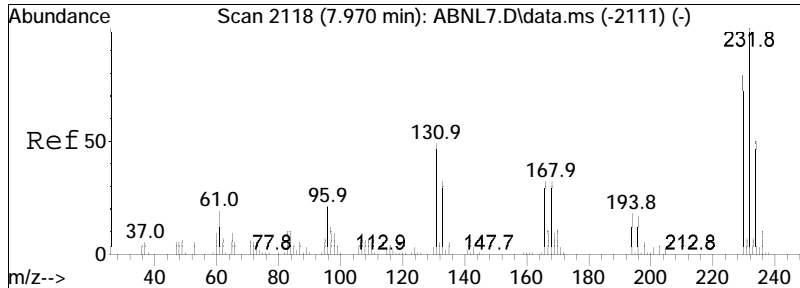


#69
 4-Nitrophenol
 Concen: 20.03 ug/ml
 RT: 7.269 min Scan# 1051
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am



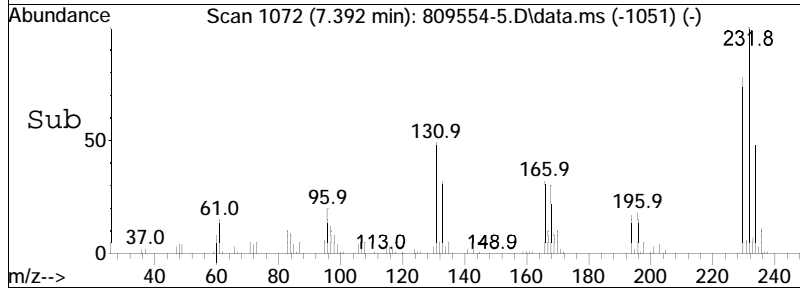
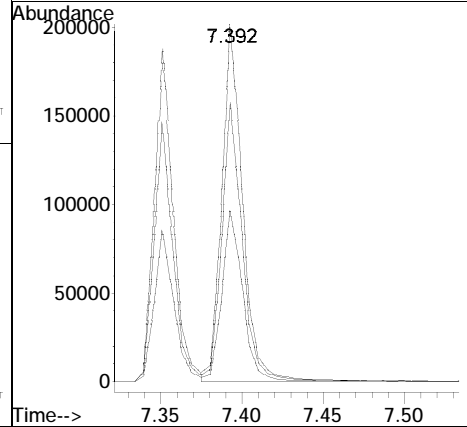
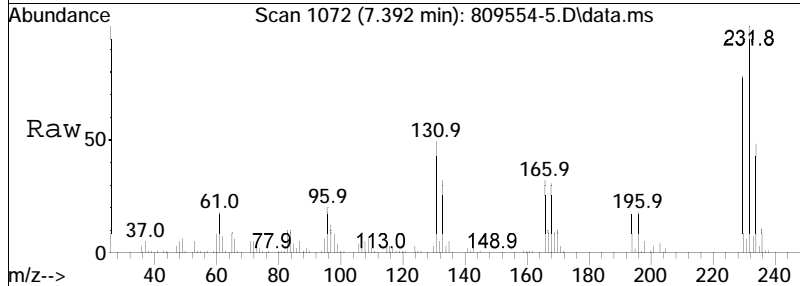
Tgt Ion:	65	Resp:	85139
Ion Ratio	Lower	Upper	
65	100		
109	77.7	52.8	79.2
139	93.5	84.1	126.1

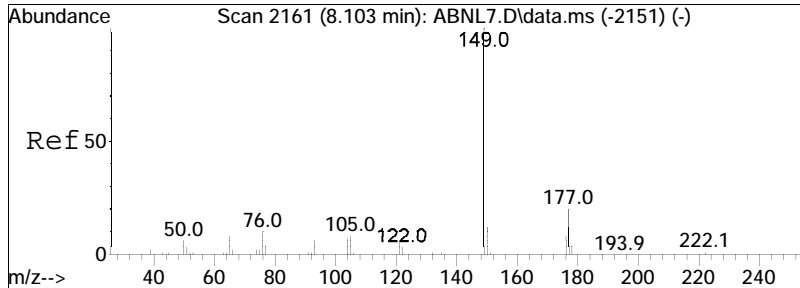




#71
 2,3,4,6-Tetrachlorophenol
 Concen: 31.09 ug/ml
 RT: 7.392 min Scan# 1072
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

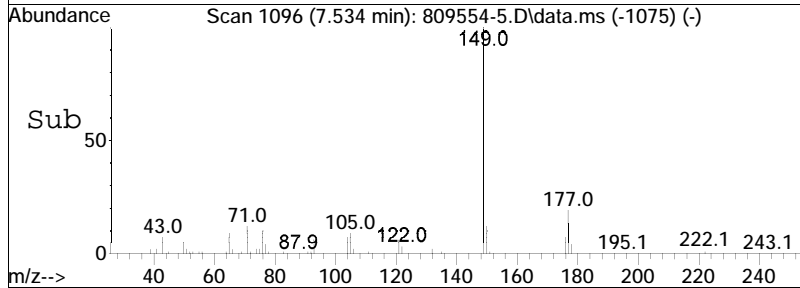
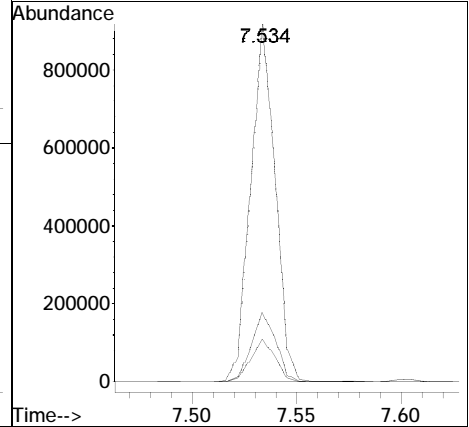
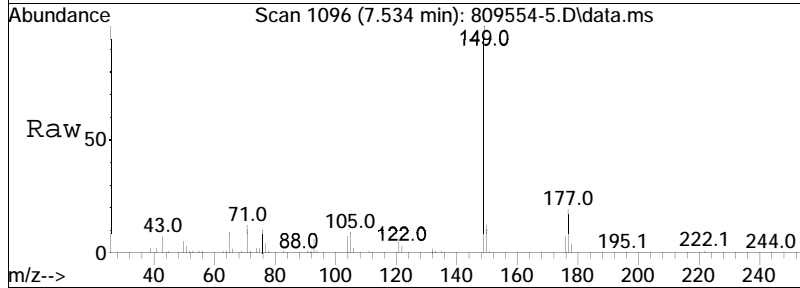
Tgt Ion	Resp	Lower	Upper
232	100		
230	77.4	62.8	94.2
234	48.3	38.3	57.5

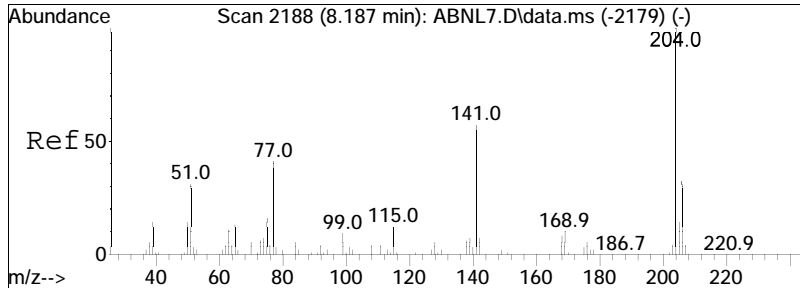




#72
 Diethyl phthalate
 Concen: 28.43 ug/ml
 RT: 7.534 min Scan# 1096
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

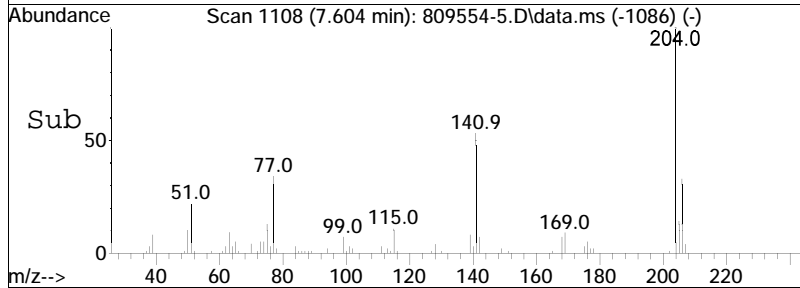
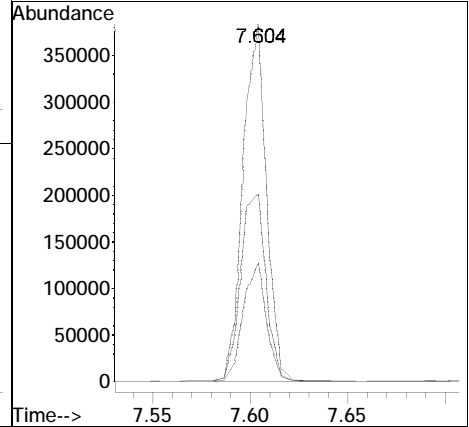
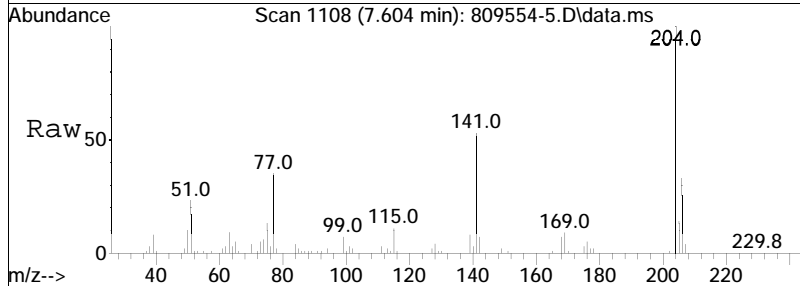
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.6	15.6	23.4
150	12.0	9.6	14.4

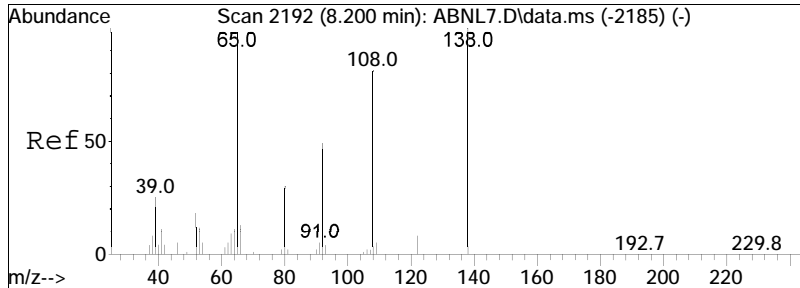




#74
 4-Chlorophenyl phenyl ether
 Concen: 28.90 ug/ml
 RT: 7.604 min Scan# 1108
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

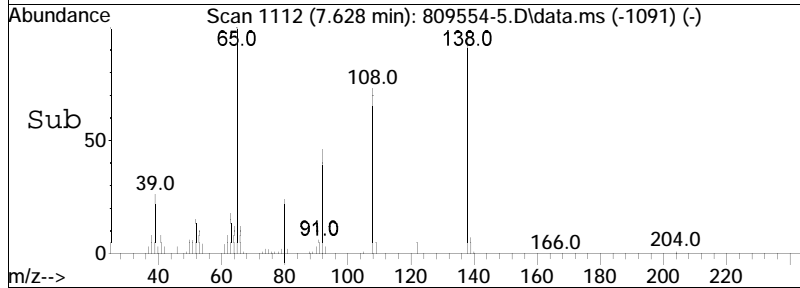
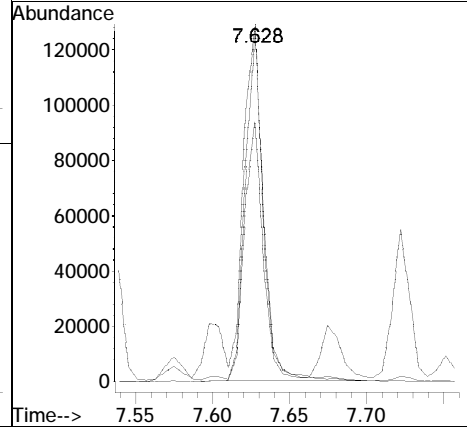
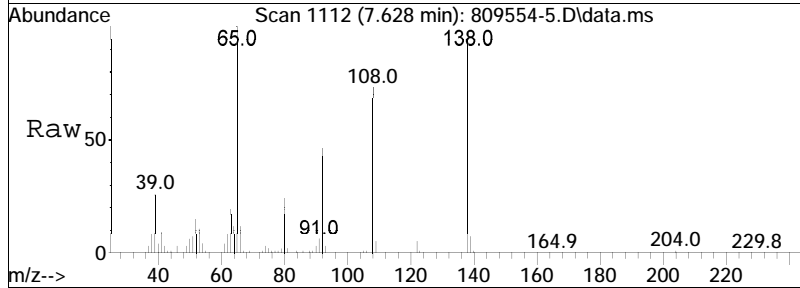
Tgt Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.0	39.0
141	57.1	48.5	72.7

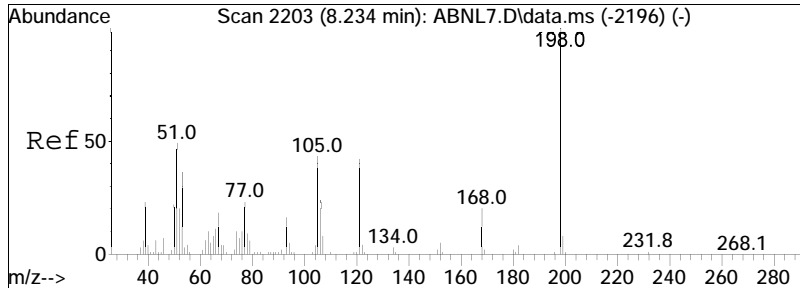




#75
 4-Nitroaniline
 Concen: 18.53 ug/ml
 RT: 7.628 min Scan# 1112
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

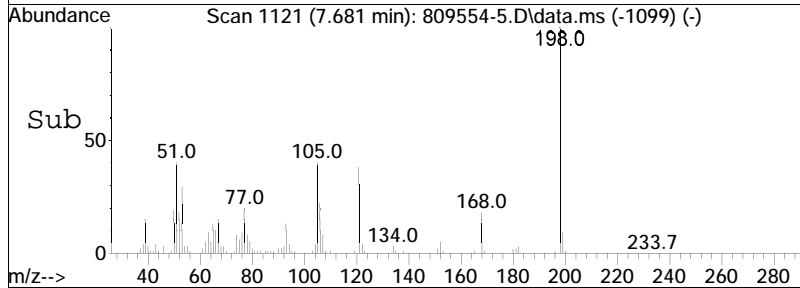
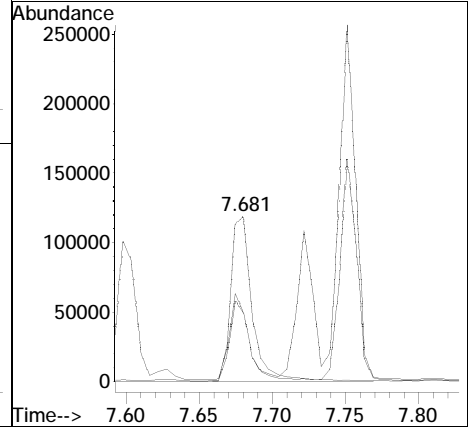
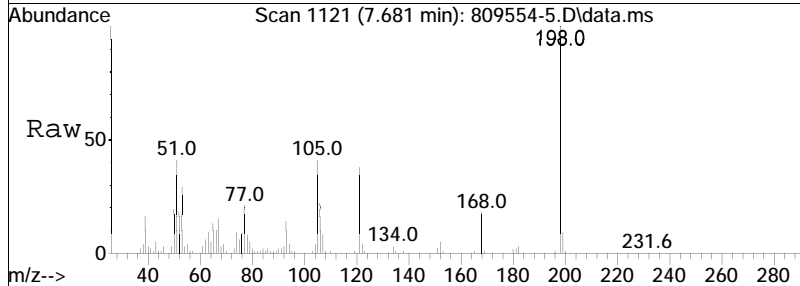
Tgt Ion	Resp	Lower	Upper
138	104207		
138	100		
108	77.8	54.4	81.6
65	100.6	100.1	150.1

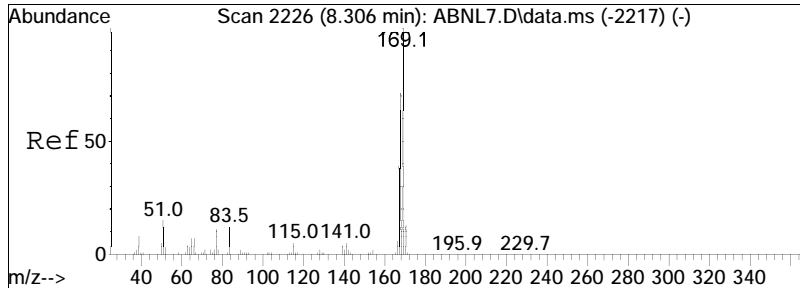




#76
 4,6-Dinitro-o-cresol
 Concen: 35.76 ug/ml
 RT: 7.681 min Scan# 1121
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

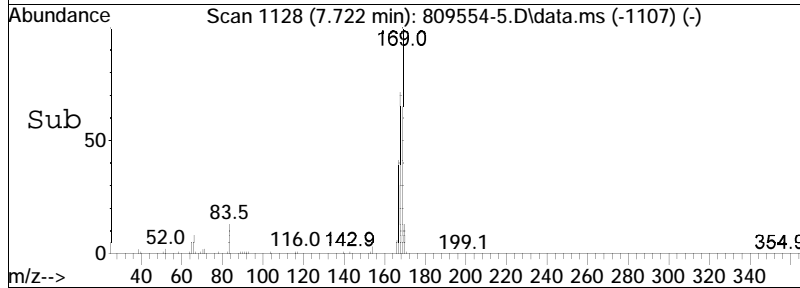
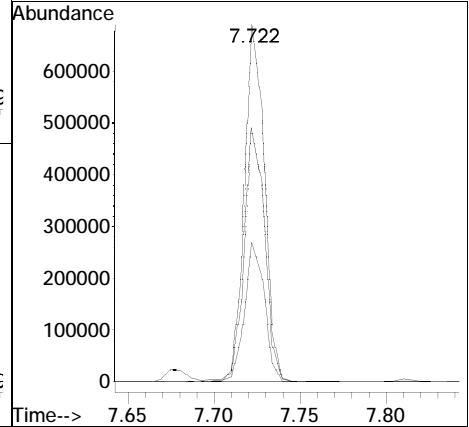
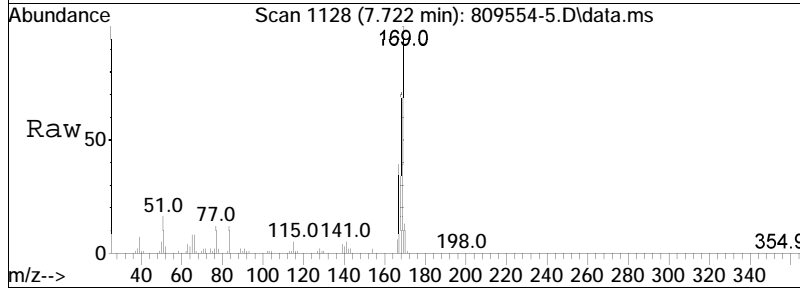
Tgt Ion	Ratio	Lower	Upper
198	100		
51	46.2	48.3	72.5#
105	46.2	38.4	57.6

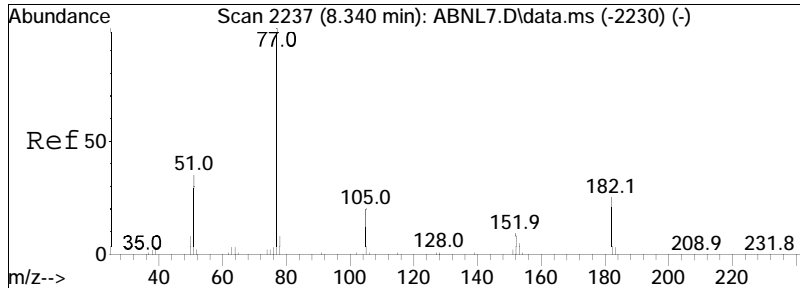




#77
 NDPA/DPA
 Concen: 28.46 ug/ml
 RT: 7.722 min Scan# 1128
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

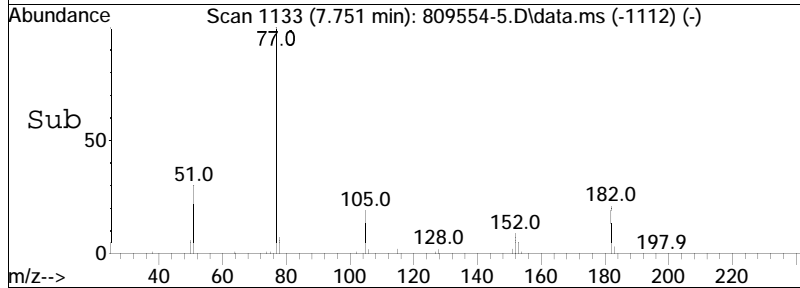
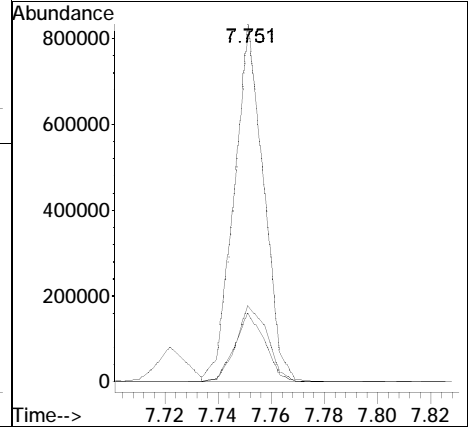
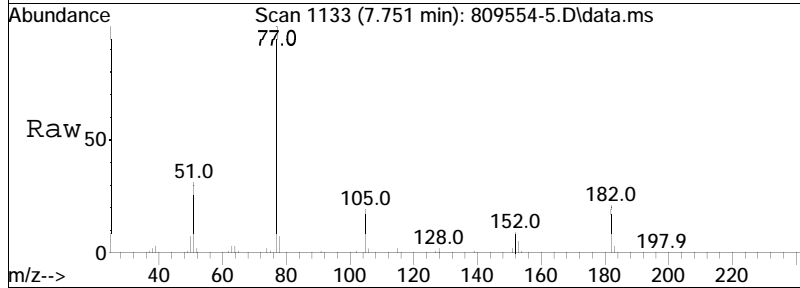
Tgt Ion	Resp	Lower	Upper
169	100		
168	73.1	57.2	85.8
167	39.5	31.0	46.4

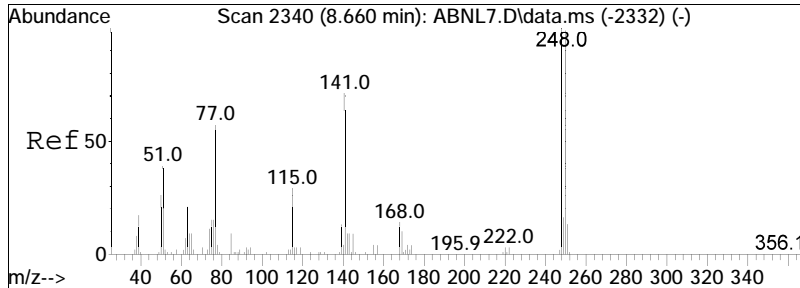




#78
 Azobenzene
 Concen: 27.17 ug/ml
 RT: 7.751 min Scan# 1133
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

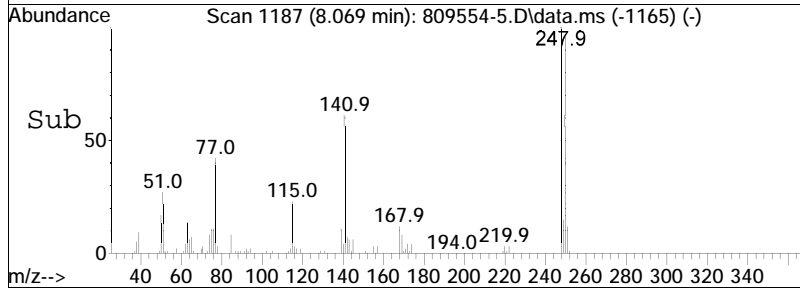
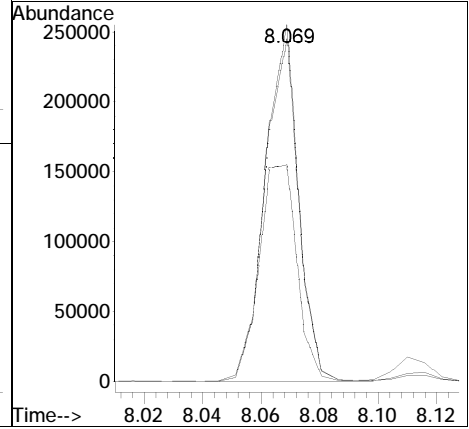
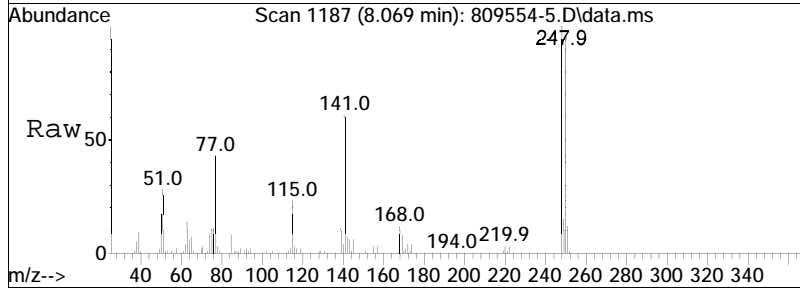
Tgt Ion	Resp	Lower	Upper
77	100		
182	22.9	17.2	25.8
105	20.0	17.1	25.7

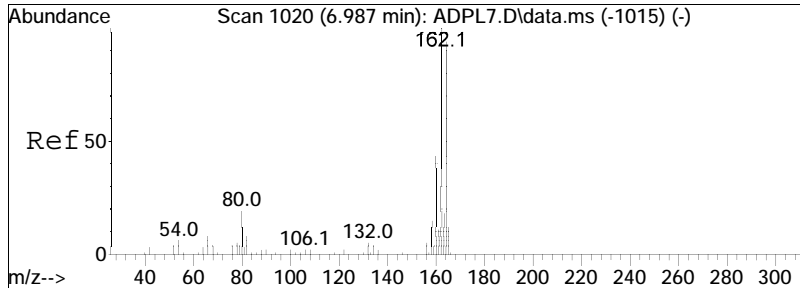




#80
 4-Bromophenyl phenyl ether
 Concen: 29.64 ug/ml
 RT: 8.069 min Scan# 1187
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

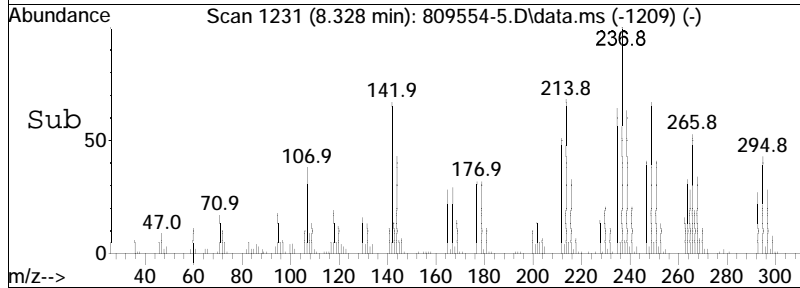
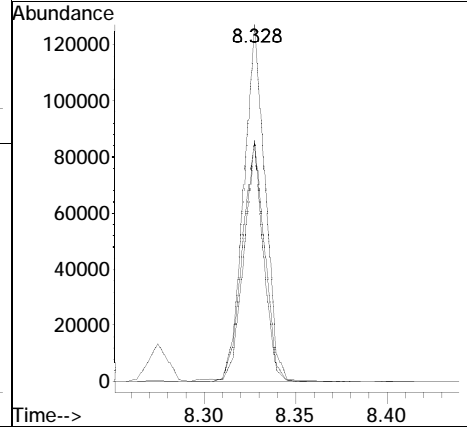
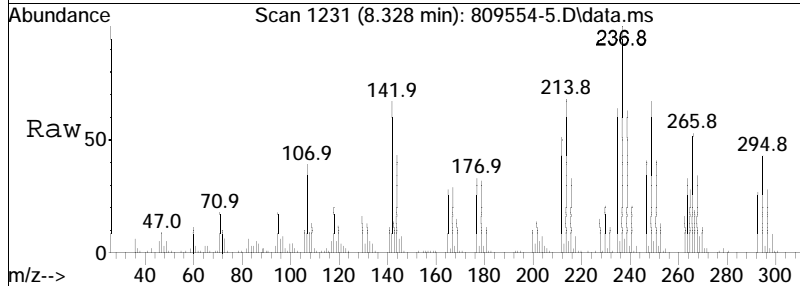
Tgt Ion	Ratio	Lower	Upper
248	100		
141	69.6	59.9	89.9
250	97.0	78.0	117.0

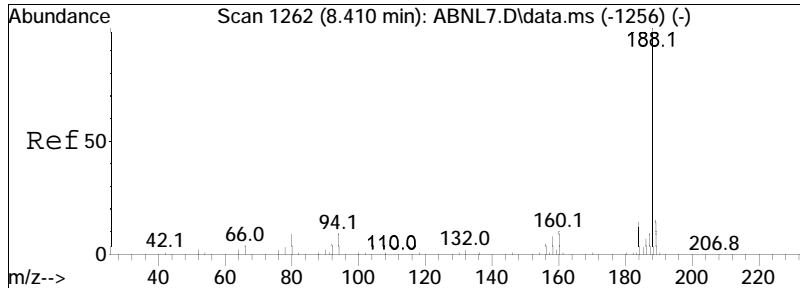




#85
 Pentachloronitrobenzene
 Concen: 33.10 ug/ml
 RT: 8.328 min Scan# 1231
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

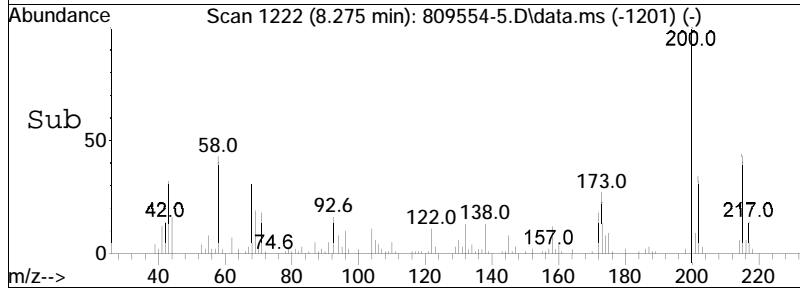
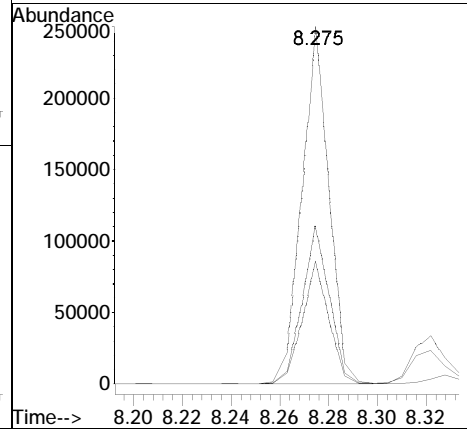
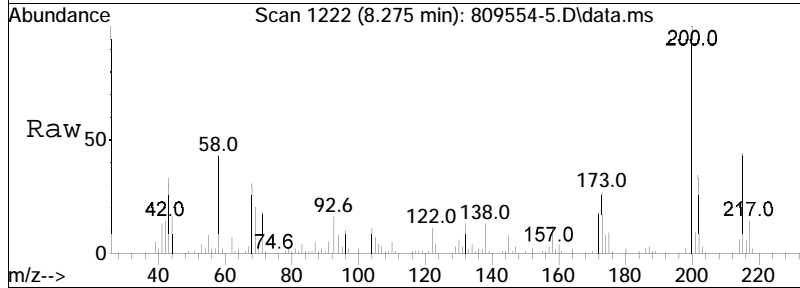
Tgt Ion	Resp	Lower	Upper
237	103672		
237	100		
142	66.4	59.4	89.2
214	66.1	56.5	84.7

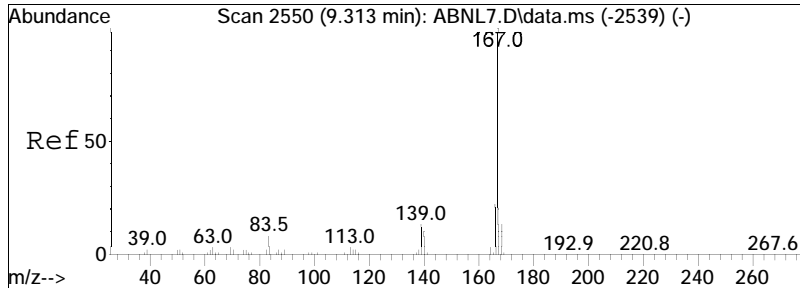




#87
 Atrazine
 Concen: 29.85 ug/ml
 RT: 8.275 min Scan# 1222
 Delta R.T. 0.000 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

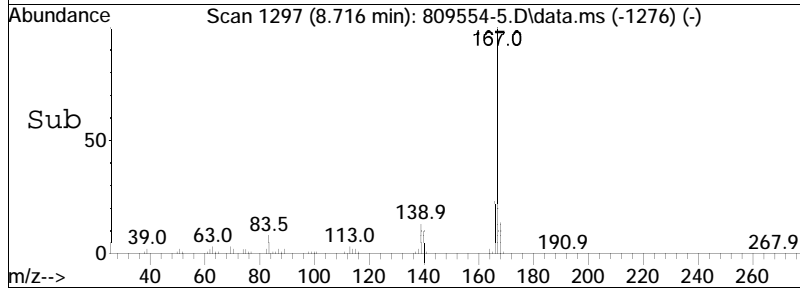
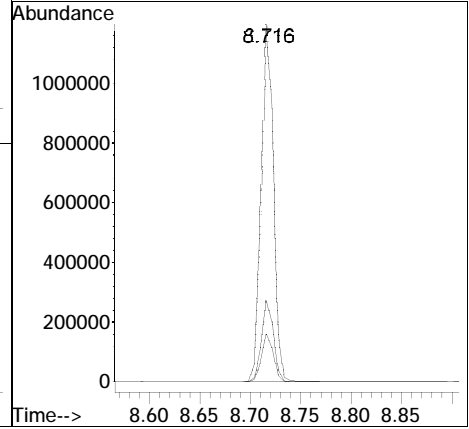
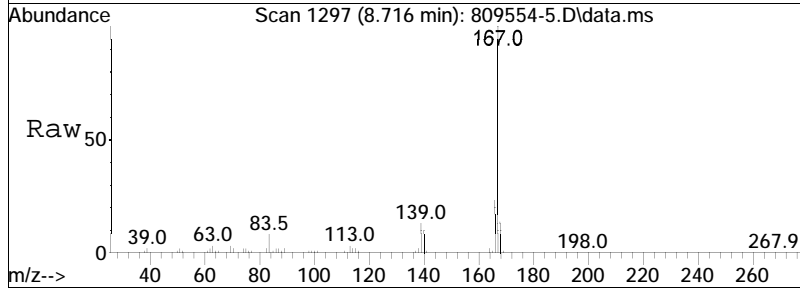
Tgt Ion	Ratio	Lower	Upper
200	100		
202	33.8	26.1	39.1
215	44.8	36.2	54.2

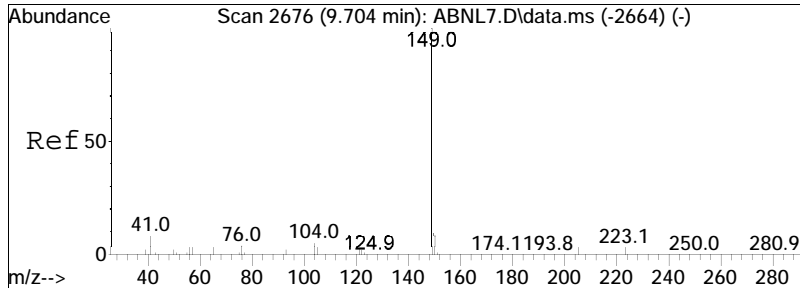




#91
 Carbazole
 Concen: 29.63 ug/ml
 RT: 8.716 min Scan# 1297
 Delta R.T. -0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

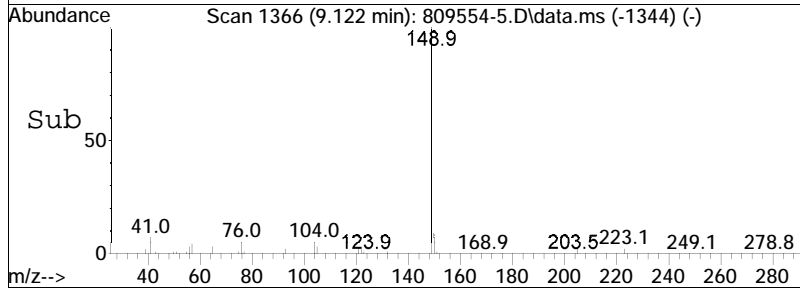
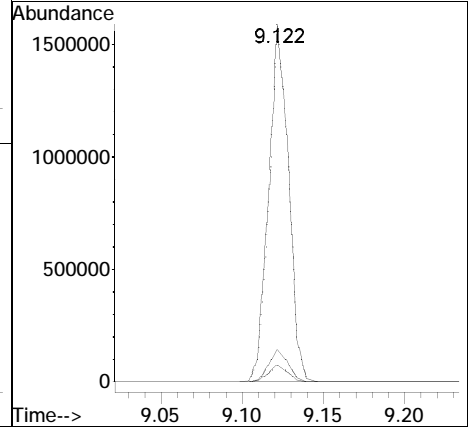
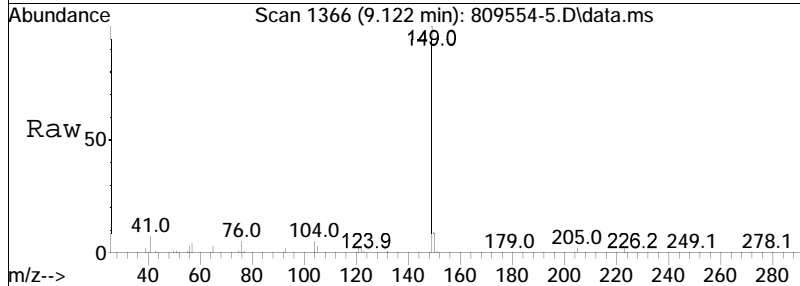
Tgt Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	16.0
166	22.6	18.0	27.0

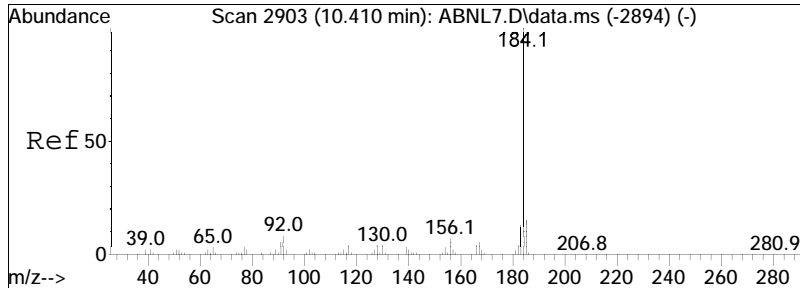




#92
 Di-n-butylphthalate
 Concen: 28.84 ug/ml
 RT: 9.122 min Scan# 1366
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

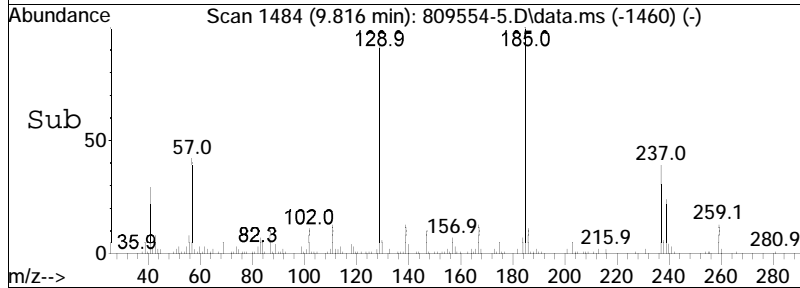
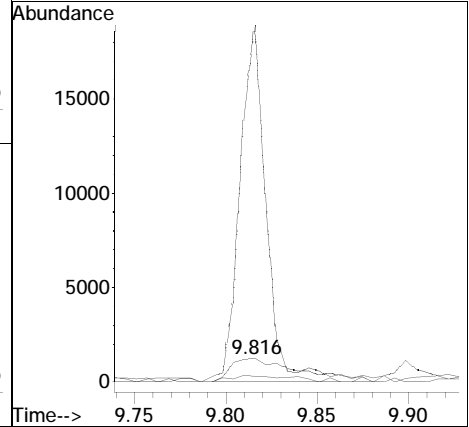
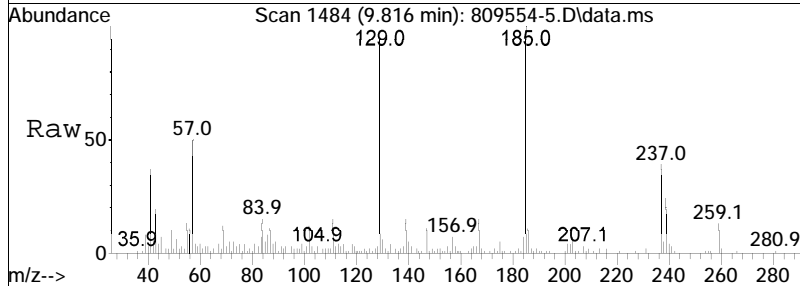
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.3	10.9
104	4.7	3.6	5.4

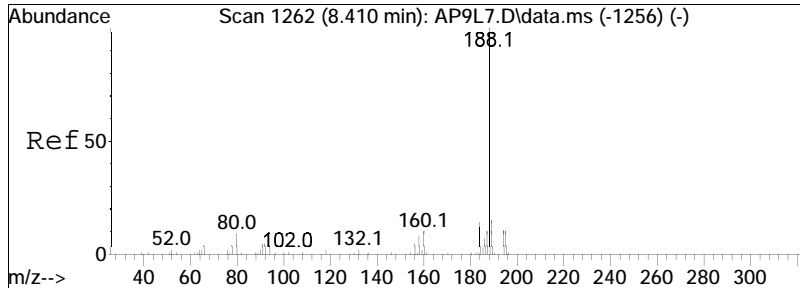




#94
 Benzidine
 Concen: 0.13 ug/ml
 RT: 9.816 min Scan# 1484
 Delta R.T. 0.015 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

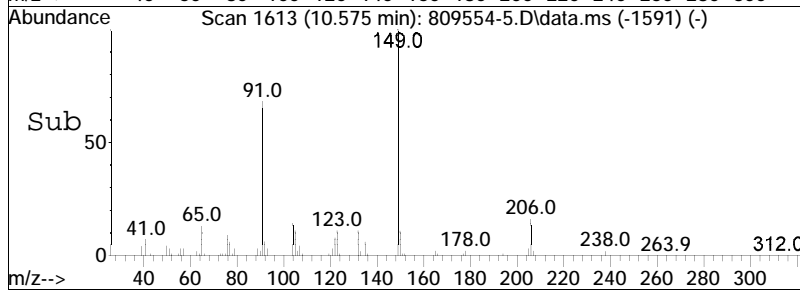
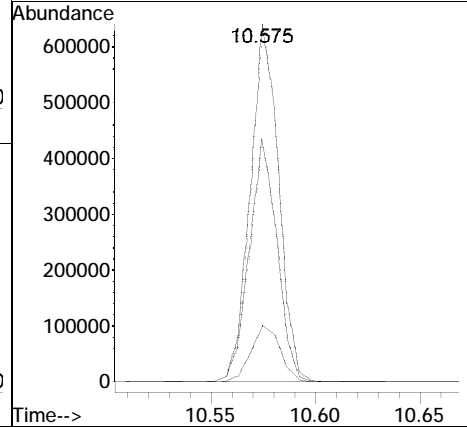
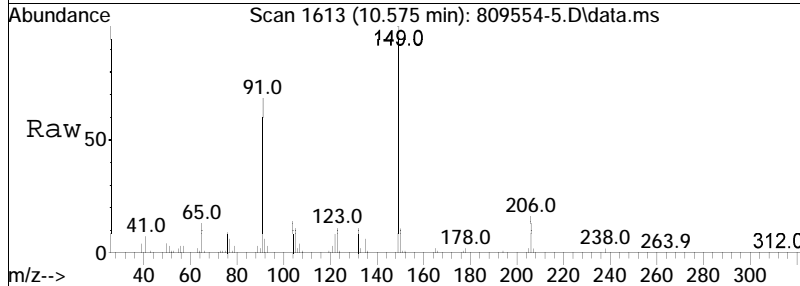
Tgt Ion	Ratio	Lower	Upper
184	100		
92	23.3	7.2	10.8#
185	558.6	11.3	16.9#

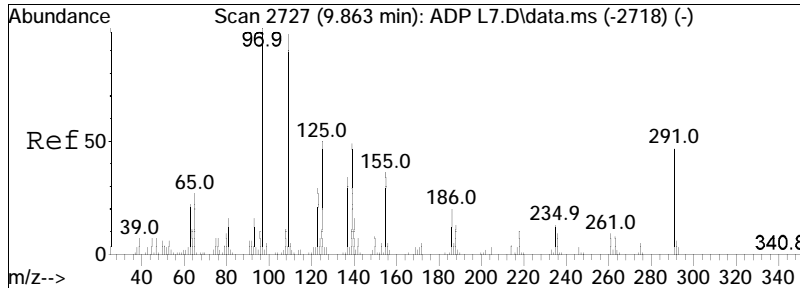




#97
 Butyl benzyl phthalate
 Concen: 28.62 ug/ml
 RT: 10.575 min Scan# 1613
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

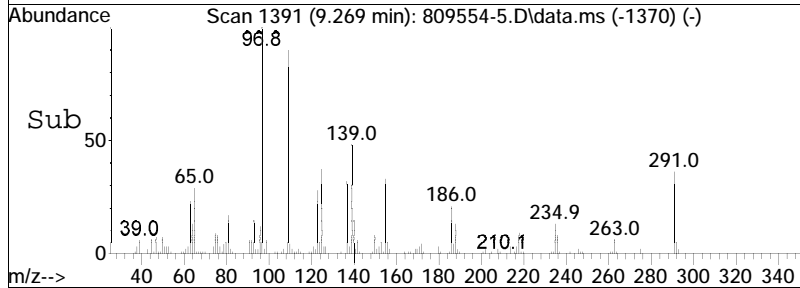
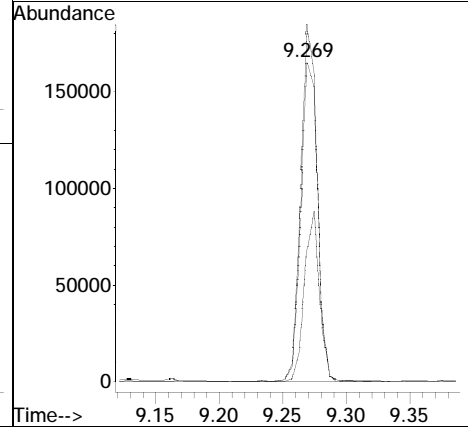
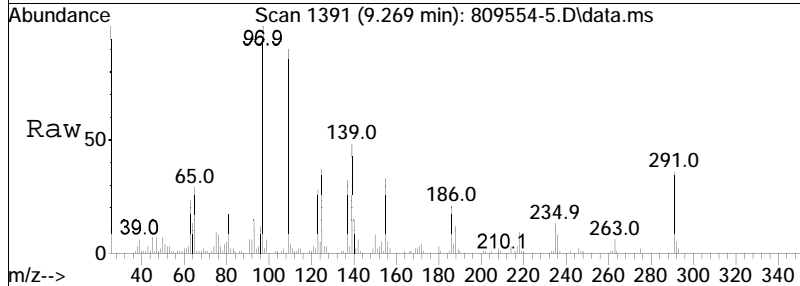
Tgt Ion	Ratio	Lower	Upper
149	100		
91	66.5	54.6	81.8
206	16.4	12.5	18.7

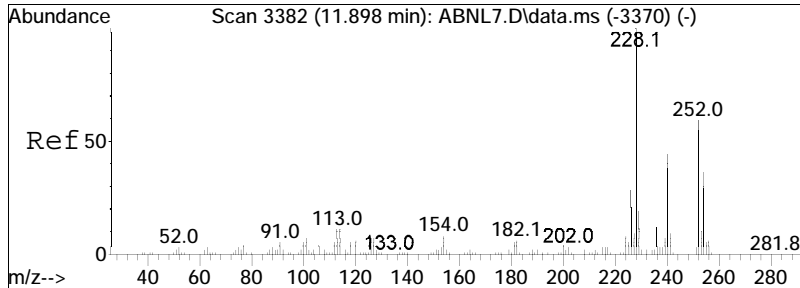




#102
 Parathion
 Concen: 38.63 ug/ml
 RT: 9.269 min Scan# 1391
 Delta R.T. 0.000 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

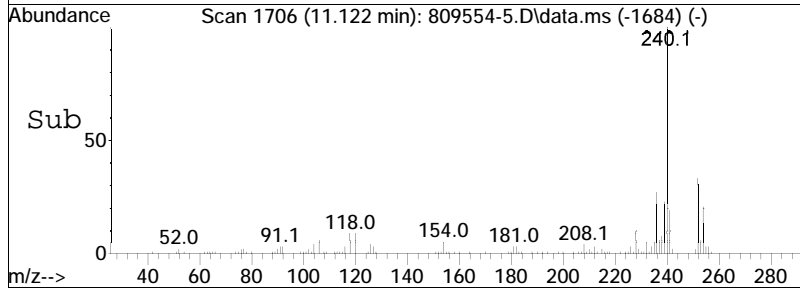
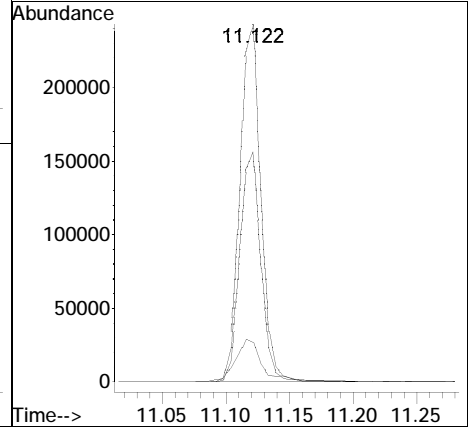
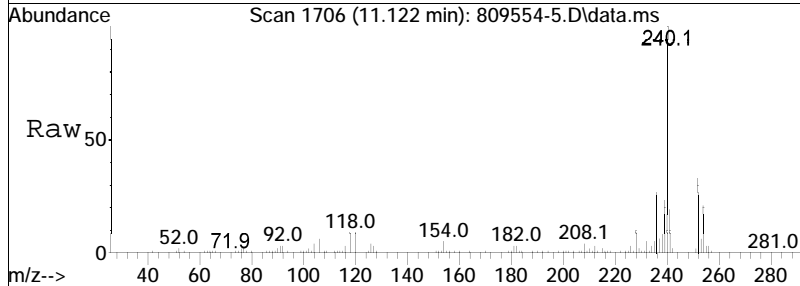
Tgt Ion	Resp	Lower	Upper
109	149621		
109	100		
97	108.4	82.5	123.7
291	48.1	30.7	46.1#

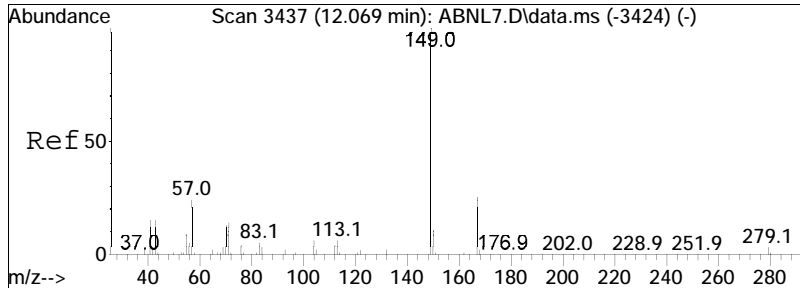




#106
 3,3'-Dichlorobenzidine
 Concen: 18.07 ug/ml
 RT: 11.122 min Scan# 1706
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

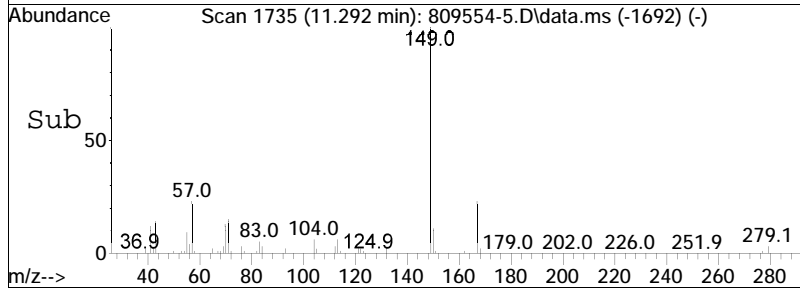
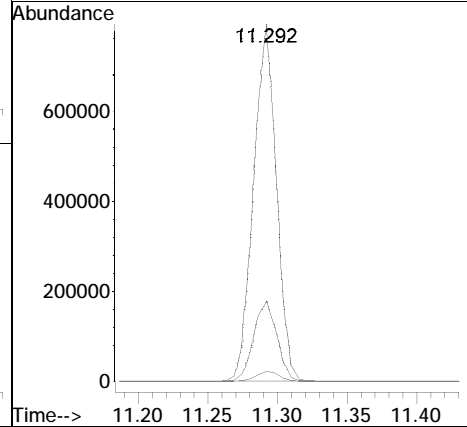
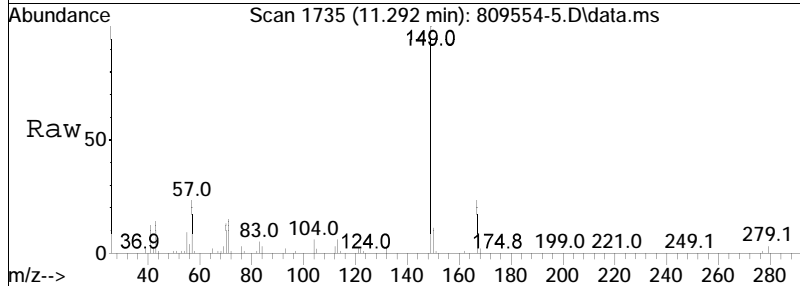
Tgt Ion	Ratio	Lower	Upper
252	100		
126	15.2	12.4	18.6
254	64.5	51.8	77.6

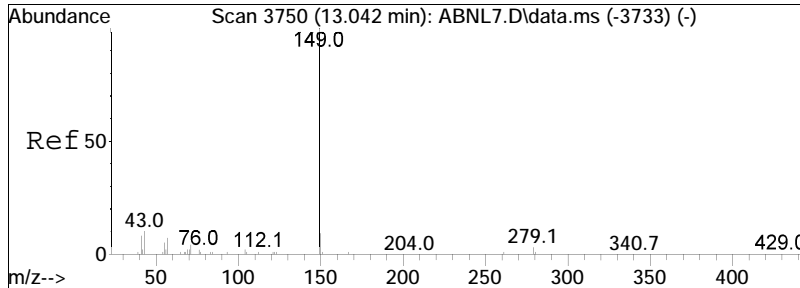




#108
 Bis(2-ethylhexyl)phthalate
 Concen: 29.55 ug/ml
 RT: 11.292 min Scan# 1735
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

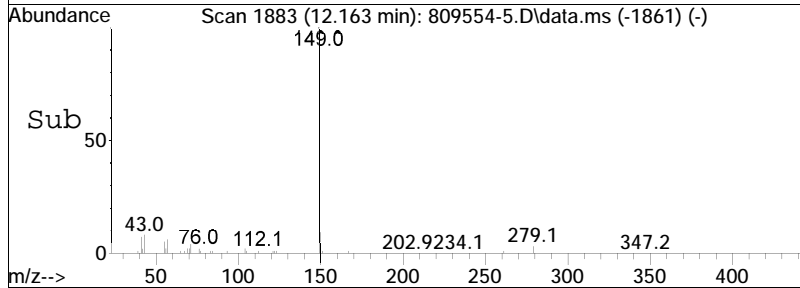
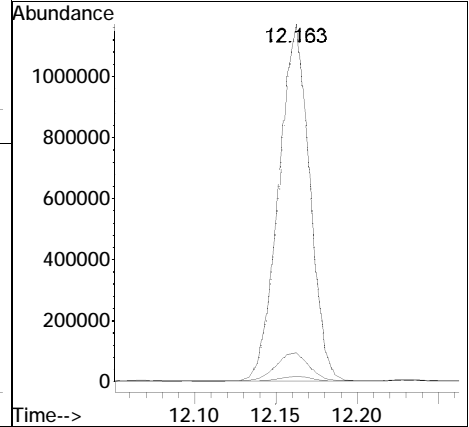
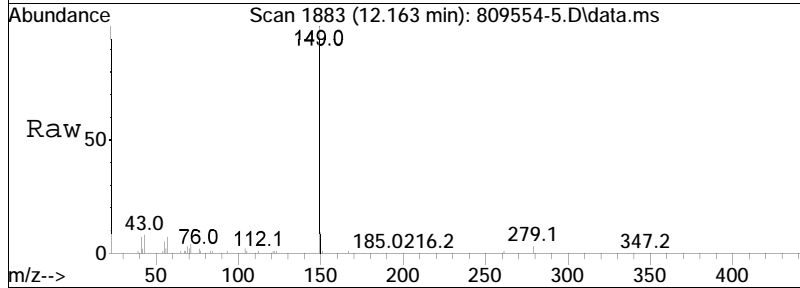
Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.1	19.0	28.6
279	2.7	2.0	3.0





#109
 Di-n-octylphthalate
 Concen: 28.88 ug/ml
 RT: 12.163 min Scan# 1883
 Delta R.T. 0.003 min
 Lab File: 809554-5.D
 Acq: 2 Aug 2023 6:20 am

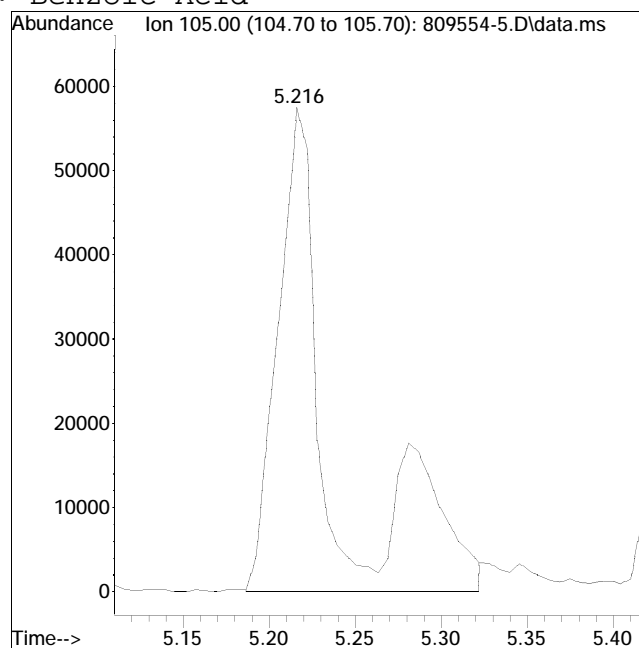
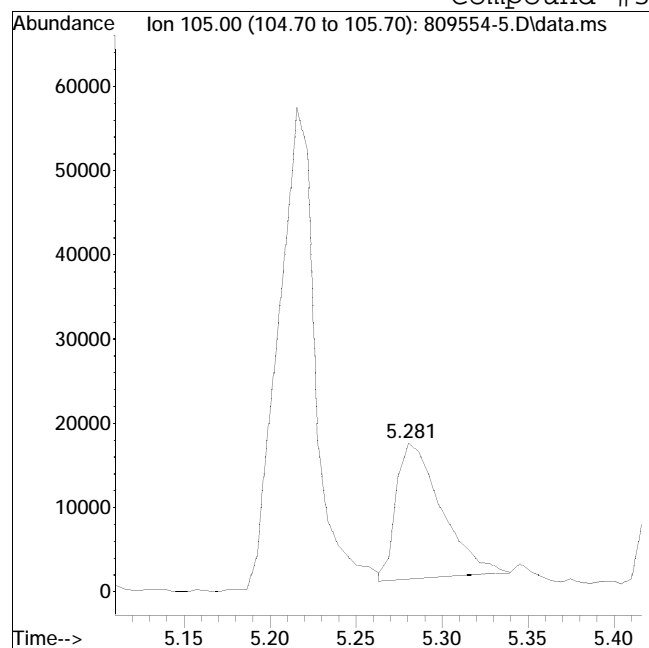
Tgt Ion	Ratio	Lower	Upper
149	100		
43	8.4	9.0	13.4#
167	1.5	1.1	1.7



Manual Integration Report

Data Path : I:\8270\SV109\230801n\ QMethod : FS230531SV109.m
Data File : 809554-5.D Operator : SV109:slr
Date Inj'd : 8/2/2023 6:20 am Instrument : SV109
Sample : WG1809554-5,32,,ASK Quant Date : 8/2/2023 6:40 am

Compound #37: Benzoic Acid



Original Peak Response = 29455

Manual Peak Response = 122947 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: $Amt * DF * 1000 * (1/Vo) * Vf$

Where:

DF = Dilution Factor

Vo = Volume of Sample (mL)

Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: $Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)$

Where:

DF = Dilution Factor

Wt = Weight of Sample (g)

Vf = Extraction Lab Final Volume (mL)

TS = Total Solids



ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Aug 14 2023, 03:27 pm

Work Group: WG1809554 for Department: 2 Organic Preparation

Created: 30-JUL-23 Due: Operator: SAY

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2343170-01	YS-MW-2023-01 072623	S NYTCL-8270	WATER	DONE	U	0802	0809	S0	Amber-A1
L2343170-02	MW-01 072623	S NYTCL-8270	WATER	DONE	U	0802	0809	S0	Amber-A1
L2343170-03	YS-MW-BD- 072623	S NYTCL-8270	WATER	DONE	U	0802	0809	S0	Amber-A1
L2343197-01	RI-MW-01-230726	C 8270TCL	WATER	DONE	U	0802	0816	S0	Amber-A1
L2343197-03	RI-FD01-230726	C 8270TCL	WATER	DONE	U	0802	0816	S0	Amber-A1
L2343325-01	RI-EB01-230727	C 8270TCL	WATER	DONE	U	0803	0824	S0	Amber-A1
WG1809554-1	Laboratory Method Bl	S NYTCL-8270	WATER	DONE	U				
WG1809554-1	Laboratory Method Bl	S 8270TCL	WATER	DONE	U				
WG1809554-2	Laboratory Control S	S NYTCL-8270	WATER	DONE	U				
WG1809554-2	Laboratory Control S	S 8270TCL	WATER	DONE	U				
WG1809554-3	LCS Duplicate	S NYTCL-8270	WATER	DONE	U				
WG1809554-3	LCS Duplicate	S 8270TCL	WATER	DONE	U				
WG1809554-4	Matrix Spike	S NYTCL-8270	WATER	DONE	U				
WG1809554-4	Matrix Spike	S 8270TCL	WATER	DONE	U				
WG1809554-5	Matrix Spike Duplica	S NYTCL-8270	WATER	DONE	U				
WG1809554-5	Matrix Spike Duplica	S 8270TCL	WATER	DONE	U				
WG1809554-6	Matrix Spike	S NYTCL-8270	WATER	DONE	U				
WG1809554-6	Matrix Spike	S 8270TCL	WATER	DONE	U				
WG1809554-7	Matrix Spike Duplica	S 8270TCL	WATER	DONE	U				
WG1809554-7	Matrix Spike Duplica	S NYTCL-8270	WATER	DONE	U				

Comments:

WG1809554-3 WG1809554-2
 WG1809554-4 L2343197-01
 WG1809554-5 L2343197-01
 WG1809554-6 L2343170-01
 WG1809554-7 L2343170-01

Analysis log File

Total Files Reported in Log : 51
 Log Generated From Directory: I:\8270\SV109\230531ical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE	INJ'D
1	Tune1.D	ABNSV109.M	Tune1	WG1788374,,	5/31/2023	7:45 pm
2	ABNL10.D	ABNSV109.M	IL1,32,,ABNL200 Lot# 99	WG1788374,,	5/31/2023	8:09 pm
3	ABNL9.D	ABNSV109.M	IL2,32,,ABNL150 Lot# 99	WG1788374,,	5/31/2023	8:32 pm
4	ABNL8.D	ABNSV109.M	IL3,32,,ABNL100 Lot# 99	WG1788374,,	5/31/2023	8:55 pm
5	ABNL7.D	ABNSV109.M	IL4,32,,ABNL50 Lot# 994	WG1788374,,	5/31/2023	9:19 pm
6	ABNL6.D	ABNSV109.M	IL5,32,,ABNL20 Lot# 994	WG1788374,,	5/31/2023	9:42 pm
7	ABNL5.D	ABNSV109.M	IL6,32,,ABNL10 Lot# 994	WG1788374,,	5/31/2023	10:05 pm
8	ABNL4.D	ABNSV109.M	IL7,32,,ABNL5 Lot# 9947	WG1788374,,	5/31/2023	10:28 pm
9	ABNL3.D	ABNSV109.M	IL8,32,,ABNL3 Lot# 9948	WG1788374,,	5/31/2023	10:52 pm
10	ABNL2.D	ABNSV109.M	IL9,32,,ABNL2 Lot# 9949	WG1788374,,	5/31/2023	11:15 pm
11	ABNL1.D	ABNSV109.M	IL10,32,,ABNL1 Lot# 995	WG1788374,,	5/31/2023	11:38 pm
12	AP9L9.D	ABNSV109.M	IL12,32,,AP9L150 Lot# 1		6/1/2023	12:25 am
13	AP9L10.D	ABNSV109.M	IL11,32,,AP9L200 Lot# 1		6/1/2023	12:02 am
14	Tune2.D	ABNSV109.M	Tune2		6/1/2023	6:46 am
15	AP9L10a.D	ABNSV109.M	IL11,32,,AP9L200 Lot# 1	WG1788374,,	6/1/2023	7:10 am
16	AP9L9a.D	ABNSV109.M	IL12,32,,AP9L150 Lot# 1	WG1788374,,	6/1/2023	7:34 am
17	AP9L8.D	ABNSV109.M	IL13,32,,AP9L100 Lot# 1	WG1788374,,	6/1/2023	8:31 am
18	AP9L7.D	ABNSV109.M	IL14,32,,AP9L50 Lot# 10	WG1788374,,	6/1/2023	8:55 am
19	AP9L6.D	ABNSV109.M	IL15,32,,AP9L20 Lot# 10	WG1788374,,	6/1/2023	9:19 am
20	AP9L5.D	ABNSV109.M	IL16,32,,AP9L10 Lot# 10	WG1788374,,	6/1/2023	9:43 am
21	AP9L4.D	ABNSV109.M	IL17,32,,AP9L5 Lot# 100	WG1788374,,	6/1/2023	10:07 am
22	AP9L3.D	ABNSV109.M	IL18,32,,AP9L3 Lot# 100	WG1788374,,	6/1/2023	10:32 am
23	AP9L2.D	ABNSV109.M	IL19,32,,AP9L2 Lot# 100	WG1788374,,	6/1/2023	10:56 am
24	AP9L1.D	ABNSV109.M	IL20,32,,AP9L1 Lot# 100	WG1788374,,	6/1/2023	11:20 am
25	ABNICV.D	ABNSV109.M	CQICV1,32,,ABNICV Lot#	WG1788374,,	6/1/2023	11:45 am
26	AP9ICV.D	ABNSV109.M	CQICV2,32,,AP9ICV Lot#	WG1788374,,	6/1/2023	12:09 pm
27	ADPL10.D	ABNSV109.M	IL21,32,,ADPL200 Lot# 1		6/1/2023	12:34 pm
28	ADPL9.D	ABNSV109.M	IL22,32,,ADPL150 Lot# 1		6/1/2023	12:58 pm
29	ADPL8.D	ABNSV109.M	IL23,32,,ADPL100 Lot# 1		6/1/2023	1:23 pm
30	ADPL7.D	ABNSV109.M	IL24,32,,ADPL50 Lot# 10		6/1/2023	1:47 pm
31	ADPL6.D	ABNSV109.M	IL25,32,,ADPL20 Lot# 10		6/1/2023	2:12 pm
32	ADPL5.D	ABNSV109.M	IL26,32,,ADPL10 Lot# 10		6/1/2023	2:37 pm
33	ADPL4.D	ABNSV109.M	IL27,32,,ADPL5 Lot# 100		6/1/2023	3:01 pm
34	ADPL3.D	ABNSV109.M	IL28,32,,ADPL3 Lot# 100		6/1/2023	3:26 pm
35	ADPL2.D	ABNSV109.M	IL29,32,,ADPL2 Lot# 100		6/1/2023	3:50 pm
36	ADPL1.D	ABNSV109.M	IL30,32,,ADPL1 Lot# 100		6/1/2023	4:14 pm
37	ADPICV.D	ABNSV109.M	CQICV3,32,,ADPICV Lot#		6/1/2023	4:39 pm
38	INSBLK.D	ABNSV109.M	Instrument Blank		6/1/2023	5:03 pm
39	Tune2a.D	ABNSV109.M	Tune2a	WG1788374,,	6/6/2023	1:37 pm
40	ADPL10a.D	ABNSV109.M	IL21,32,,ADPL200 Lot# 1	WG1788374,,	6/6/2023	3:57 pm
41	ADPL9a.D	ABNSV109.M	IL22,32,,ADPL150 Lot# 1	WG1788374,,	6/6/2023	4:21 pm
42	ADPL8a.D	ABNSV109.M	IL23,32,,ADPL100 Lot# 1	WG1788374,,	6/6/2023	4:44 pm
43	ADPL7a.D	ABNSV109.M	IL24,32,,ADPL50 Lot# 10	WG1788374,,	6/6/2023	5:08 pm
44	ADPL6a.D	ABNSV109.M	IL25,32,,ADPL20 Lot# 10	WG1788374,,	6/6/2023	5:32 pm
45	ADPL5a.D	ABNSV109.M	IL26,32,,ADPL10 Lot# 10	WG1788374,,	6/6/2023	5:56 pm
46	ADPL4a.D	ABNSV109.M	IL27,32,,ADPL5 Lot# 100	WG1788374,,	6/6/2023	6:19 pm
47	ADPL3a.D	ABNSV109.M	IL28,32,,ADPL3 Lot# 100	WG1788374,,	6/6/2023	6:43 pm
48	ADPL2a.D	ABNSV109.M	IL29,32,,ADPL2 Lot# 100	WG1788374,,	6/6/2023	7:06 pm
49	ADPL1a.D	ABNSV109.M	IL30,32,,ADPL1 Lot# 100	WG1788374,,	6/6/2023	7:30 pm
50	ADPICVa.D	ABNSV109.M	CQICV3,32,,ADPICV Lot#	WG1788374,,	6/6/2023	7:53 pm
51	INSBLKa.D	ABNSV109.M	Instrument Blank		6/6/2023	8:17 pm

Analysis log File

Total Files Reported in Log : 36
 Log Generated From Directory: I:\8270\Juliet\230720ical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE	INJ'D
1	Tune1.D	ABNFAST1.M	Tune 1	WG1806439,,	7/20/2023	10:57 pm
2	ABNL10.D	ABNFAST1.M	IL1,32,,ABNL200 Lot# 10	WG1806439,,	7/20/2023	11:20 pm
3	ABNL9.D	ABNFAST1.M	IL2,32,,ABNL150 Lot# 10	WG1806439,,	7/20/2023	11:44 pm
4	ABNL6.D	ABNFAST1.M	IL5,32,,ABNL20 Lot# 101	WG1806439,,	7/21/2023	12:55 am
5	ABNL8.D	ABNFAST1.M	IL3,32,,ABNL100 Lot# 10	WG1806439,,	7/21/2023	12:08 am
6	ABNL7.D	ABNFAST1.M	IL4,32,,ABNL50 Lot# 101	WG1806439,,	7/21/2023	12:31 am
7	ABNL5.D	ABNFAST1.M	IL6,32,,ABNL10 Lot# 101	WG1806439,,	7/21/2023	1:19 am
8	ABNL4.D	ABNFAST1.M	IL7,32,,ABNL5 Lot# 1013	WG1806439,,	7/21/2023	1:42 am
9	ABNL3.D	ABNFAST1.M	IL8,32,,ABNL3 Lot# 1013	WG1806439,,	7/21/2023	2:06 am
10	ABNL2.D	ABNFAST1.M	IL9,32,,ABNL2 Lot# 1013	WG1806439,,	7/21/2023	2:30 am
11	ABNL1.D	ABNFAST1.M	IL10,32,,ABNL1 Lot# 101	WG1806439,,	7/21/2023	2:53 am
12	AP9L10.D	ABNFAST1.M	IL11,32,,AP9L200 Lot# 1	WG1806439,,	7/21/2023	3:17 am
13	AP9L9.D	ABNFAST1.M	IL12,32,,AP9L150 Lot# 1	WG1806439,,	7/21/2023	3:41 am
14	AP9L8.D	ABNFAST1.M	IL13,32,,AP9L100 Lot# 1	WG1806439,,	7/21/2023	4:04 am
15	AP9L7.D	ABNFAST1.M	IL14,32,,AP9L50 Lot# 10	WG1806439,,	7/21/2023	4:28 am
16	AP9L6.D	ABNFAST1.M	IL15,32,,AP9L20 Lot# 10	WG1806439,,	7/21/2023	4:52 am
17	AP9L5.D	ABNFAST1.M	IL16,32,,AP9L10 Lot# 10	WG1806439,,	7/21/2023	5:16 am
18	AP9L4.D	ABNFAST1.M	IL17,32,,AP9L5 Lot# 100	WG1806439,,	7/21/2023	5:39 am
19	AP9L3.D	ABNFAST1.M	IL18,32,,AP9L3 Lot# 100	WG1806439,,	7/21/2023	6:03 am
20	AP9L2.D	ABNFAST1.M	IL19,32,,AP9L2 Lot# 100	WG1806439,,	7/21/2023	6:27 am
21	AP9L1.D	ABNFAST1.M	IL20,32,,AP9L1 Lot# 100	WG1806439,,	7/21/2023	6:51 am
22	ABNICV.D	ABNFAST1.M	CQICV1,32,,ABNICV Lot#	WG1806439,,	7/21/2023	7:14 am
23	AP9ICV.D	ABNFAST1.M	CQICV2,32,,AP9ICV Lot#	WG1806439,,	7/21/2023	7:38 am
24	Tune2.D	ABNFAST1.M	Tune 2	WG1806439,,	7/21/2023	8:02 am
25	ADPL10.D	ABNFAST1.M	IL21,32,,ADPL200 Lot# 1	WG1806439,,	7/21/2023	8:26 am
26	ADPL9.D	ABNFAST1.M	IL22,32,,ADPL150 Lot# 1	WG1806439,,	7/21/2023	8:50 am
27	ADPL8.D	ABNFAST1.M	IL23,32,,ADPL100 Lot# 1	WG1806439,,	7/21/2023	9:13 am
28	ADPL7.D	ABNFAST1.M	IL24,32,,ADPL50 Lot# 10	WG1806439,,	7/21/2023	9:37 am
29	ADPL6.D	ABNFAST1.M	IL25,32,,ADPL20 Lot# 10	WG1806439,,	7/21/2023	10:01 am
30	ADPL5.D	ABNFAST1.M	IL26,32,,ADPL10 Lot# 10	WG1806439,,	7/21/2023	10:25 am
31	ADPL4.D	ABNFAST1.M	IL27,32,,ADPL5 Lot# 100	WG1806439,,	7/21/2023	10:49 am
32	ADPL3.D	ABNFAST1.M	IL28,32,,ADPL3 Lot# 100	WG1806439,,	7/21/2023	11:13 am
33	ADPL2.D	ABNFAST1.M	IL29,32,,ADPL2 Lot# 100	WG1806439,,	7/21/2023	11:37 am
34	ADPL1.D	ABNFAST1.M	IL30,32,,ADPL1 Lot# 100	WG1806439,,	7/21/2023	12:01 pm
35	ADPICV.D	ABNFAST1.M	CQICV3,32,,ADPICV Lot#	WG1806439,,	7/21/2023	12:25 pm
36	Blank01.D	ABNFAST1.M	Instrument Blank		7/21/2023	12:49 pm

Comment:

Operator: Juliet:

Data Path: C:\MSDCHEM\1\DATA\230801n\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run Sequence Barcode Options
 (X) Full Method (X) On Mismatch, Inject Anyway
 () Reprocessing Only () On Mismatch, Don't Inject
 () Barcode Disabled

Line		Sample Name/Misc Info
1)	Sample	100 wg-1,32,,Juliet Degdftpp
	Datafile	DEG00801n
	Method	ABNFAST1
2)	Sample	96 ABN0801n ABNFAST1 wg-3,32,,ABN CCV Lot # 10133
3)	Sample	97 AP90801n ABNFAST1 wg-4,32,,AP9 CCV Lot # 10068
4)	Sample	98 ADP0801n ABNFAST1 wg-5,32,,ADP CCV Lot # 10057
5)	Sample	1 809848-1 ABNFAST1 WG1809848-1,32,,ASK
6)	Sample	2 809848-2 ABNFAST1 WG1809848-2,32,,ASK
7)	Sample	3 809848-3 ABNFAST1 WG1809848-3,32,,ASK
8)	Sample	4 809554-1 ABNFAST1 WG1809554-1,32,,ASK
9)	Sample	5 809554-2 ABNFAST1 WG1809554-2,32,,ASK
10)	Sample	6 809554-3 ABNFAST1 WG1809554-3,32,,ASK
11)	Sample	7 878796-4 ABNFAST1 WG1808796-4d,32,5,ASK
12)	Sample	8 878796-5 ABNFAST1 WG1808796-5d,32,5,ASK
13)	Sample	9 43439-01 ABNFAST1 L2343439-01d,32,5,ASK
14)	Sample	10 43787-02 ABNFAST1 L2343787-02,32,,ASK
15)	Sample	11 42269-02 ABNFAST1 L2342269-02,32,,ASK
16)	Sample	12 41417-05 ABNFAST1 L2341417-05d,32,5,RV,ASK
17)	Sample	13 43793-01 ABNFAST1 L2343793-01,32,,ASK
18)	Sample	14 42269-04 ABNFAST1 L2342269-04,32,,ASK
19)	Sample	15 42269-11 ABNFAST1 L2342269-11,32,,ASK
20)	Sample	16 42269-09 ABNFAST1 L2342269-09d,32,10,FV=5,ASK
21)	Sample	17 42269-05 ABNFAST1 L2342269-05,32,,ASK
22)	Sample	18 42269-13 ABNFAST1 L2342269-13,32,,ASK
23)	Sample	19 42269-01 ABNFAST1 L2342269-01,32,,ASK
24)	Sample	20 43779-01 ABNFAST1 L2343779-01,32,,ASK
25)	Sample	21 42269-10 ABNFAST1 L2342269-10,32,,ASK
26)	Sample	22 42269-08 ABNFAST1 L2342269-08,32,,ASK
27)	Sample	23 42269-12 ABNFAST1 L2342269-12,32,,ASK
28)	Sample	24 42269-03 ABNFAST1 L2342269-03,32,,ASK
29)	Sample	25 42269-06 ABNFAST1 L2342269-06,32,,ASK
30)	Sample	26 42269-07 ABNFAST1 L2342269-07,32,,ASK

Sequence Name: C:\msdchem\1\sequence\230801n.s

Comment:

Operator: SV109:

Data Path: C:\MSDCHEM\1\DATA\230801n\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run On A Barcode Mismatch
(X) Full Method (X) Inject Anyway
() Reprocessing Only () Don't Inject

Line	Sample Name/Misc Info
1) Sample	141 DEG0801n ABNSV109 wg-1,32,,SV109 Degdft
2) Sample	142 ABN0801n ABNSV109 wg-3,32,,ABN CCV Lot # 10133
3) Sample	143 AP90801n ABNSV109 wg-4,32,,AP9 CCV Lot # 10068
4) Sample	144 ADP0801n ABNSV109 wg-5,32,,ADP CCV Lot # 10057
5) Sample	145 BLK0801n ABNSV109 wg-6,32,,Instrument Blank
6) Sample	1 42608-43 ABNSV109 L2342608-43,32,,ASK
7) Sample	2 43325-01 ABNSV109 L2343325-01,32,,ASK
8) Sample	3 43186-01 ABNSV109 L2343186-01,32,,ASK
9) Sample	4 43240-01 ABNSV109 L2343240-01,32,,ASK
10) Sample	5 43371-01 ABNSV109 L2343371-01,32,,ASK
11) Sample	6 42740-22 ABNSV109 L2342740-22,32,,ASK
12) Sample	7 809554-4 ABNSV109 WG1809554-4,32,,ASK
13) Sample	8 809554-5 ABNSV109 WG1809554-5,32,,ASK
14) Sample	9 809554-6 ABNSV109 WG1809554-6,32,,ASK
15) Sample	10 809554-7 ABNSV109 WG1809554-7,32,,ASK
16) Sample	11 41417-03 ABNSV109 L2341417-03,32,,RE,ASK
17) Sample	12 41417-11 ABNSV109 L2341417-11,32,,RE,ASK
18) Sample	13 41417-10 ABNSV109 L2341417-10,32,,RE,ASK
19) Sample	14 43170-01 ABNSV109 L2343170-01,32,,ASK
20) Sample	15 43197-03 ABNSV109 L2343197-03,32,,ASK
21) Sample	16 43170-03 ABNSV109 L2343170-03,32,,ASK
22) Sample	17 43197-01 ABNSV109 L2343197-01,32,,ASK
23) Sample	18 42740-16 ABNSV109 L2342740-16,32,,ASK
24) Sample	19 43170-02 ABNSV109 L2343170-02,32,,ASK
25) Sample	20 42740-13 ABNSV109 L2342740-13,32,,ASK
26) Sample	21 42740-07 ABNSV109 L2342740-07,32,,ASK

Workgroup: WG1809554

Prep Method: EPA 3510C Solvent Type: DCM Surrogate Type: ABN Spike Type: ABN Spike Verify by: SAY Lims Spikelot: 8270-USAC2 Additional Reagents/Std	Lot #: EG957 Lot #: 10188-V[01/25/24], Lot #: 10183-U[10/01/23], 10184-O[01]	Conc.Method: Buchi Solvent Type: DCM Lot #: EG957 Additional Reagents/Std	Cleanup 1 Cleanup Method 1: Cleanup Method 2: Solvent Type: Lot #: Additional Reagents/Std						
<table border="1"> <tr> <td>H2SO4</td> <td>A072523</td> </tr> <tr> <td>Na2SO4</td> <td>2341161008</td> </tr> <tr> <td>NaOH</td> <td>10NNaOH071923</td> </tr> </table>		H2SO4	A072523	Na2SO4	2341161008	NaOH	10NNaOH071923		
H2SO4	A072523								
Na2SO4	2341161008								
NaOH	10NNaOH071923								

Extraction

Concentration

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2343170-01 WATER	07/30/23 22:20	Sampson Amoah	1000	<2, >12	1		07/31/23 15:59	Victor Kono	1	G
L2343170-02 WATER	07/30/23 22:20	Sampson Amoah	1000	<2, >12	1		07/31/23 16:38	Victor Kono	1	G
L2343170-03 WATER	07/30/23 22:20	Sampson Amoah	1000	<2, >12	1		07/31/23 16:38	Victor Kono	1	G
L2343197-01 WATER	07/30/23 15:51	Sampson Amoah	1000	<2, >12	1		07/31/23 15:59	Victor Kono	1	G
L2343197-03 WATER	07/30/23 15:51	Sampson Amoah	1000	<2, >12	1		07/31/23 15:59	Victor Kono	1	G
L2343325-01 WATER	07/30/23 22:14	Sampson Amoah	1000	<2, >12	1		07/31/23 16:38	Victor Kono	1	G
WG1809554-1 BLANK	07/30/23 15:51	Sampson Amoah	1000	<2, >12	1		07/31/23 15:00	Mark Gillespie	1	L
	WG1809555									

Workgroup: WG1809554

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
WG1809554- 2 LCS	07/30/23 15:51	Sampson Amoah	1000	<2, >12	1	1	07/31/23 15:00	Mark Gillespie	1	L
WG1809554- 3 LCSD	07/30/23 15:51	Sampson Amoah	1000	<2, >12	1	1	07/31/23 15:05	Mark Gillespie	1	L
WG1809554- 4 MS	07/30/23 15:51	Sampson Amoah	1000	<2, >12	1	1	07/31/23 15:00	Mark Gillespie	1	L
WG1809554- 5 MSD	07/30/23 15:51	Sampson Amoah	1000	<2, >12	1	1	07/31/23 15:59	Victor Kono	1	G
WG1809554- 6 MS	07/30/23 22:20	Sampson Amoah	1000	<2, >12	1	1	07/31/23 15:59	Victor Kono	1	G
WG1809554- 7 MSD	07/30/23 22:20	Sampson Amoah	1000	<2, >12	1	1	07/31/23 15:59	Victor Kono	1	G

**Semivolatiles Data
by Method 8270D-SIM**

Semivolatiles QC Summary

Surrogate Recovery Summary

Form 2

Semivolatiles

Client: LaBella Associates, P.C.
 Project Name: 42 YORK STREET

Lab Number: L2343170
 Project Number: 2230119
 Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
YS-MW-2023-01 072623 (L2343170-01)	45	31	81	64	68	68	0
MW-01 072623 (L2343170-02)	47	32	83	70	76	73	0
YS-MW-BD- 072623 (L2343170-03)	47	32	86	69	71	69	0
WG1809555-1BLANK	49	33	84	70	44	78	0
WG1809555-2LCS	37	26	61	49	31	57	0
WG1809555-3LCSD	40	29	70	56	34	63	0
YS-MW-2023-01 072623MS	45	31	77	60	45	70	0
YS-MW-2023-01 072623MSD	48	35	82	62	46	71	0

QC LIMITS

- (21-120) 2FP = 2-FLUOROPHENOL
- (10-120) PHL = PHENOL-D6
- (23-120) NBZ = NITROBENZENE-D5
- (15-120) FBP = 2-FLUOROBIPHENYL
- (10-120) TBP = 2,4,6-TRIBROMOPHENOL
- (41-149) TPH = 4-TERPHENYL-D14

* Values outside of QC limits

FORM II NYTCL-8270-SIM



Laboratory Control Sample Summary
Form 3
Semivolatiles

Client : LaBella Associates, P.C. Lab Number : L2343170
Project Name : 42 YORK STREET Project Number : 2230119
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1809555-2 Analysis Date : 08/08/23 14:23 File ID : 809555-2
LCSD Sample ID : WG1809555-3 Analysis Date : 08/08/23 14:40 File ID : 809555-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Acenaphthene	10	4.7	47	10	5.3	53	12	40-140	40
2-Chloronaphthalene	10	4.7	47	10	5.3	53	12	40-140	40
Fluoranthene	10	5.5	55	10	6.1	61	10	40-140	40
Hexachlorobutadiene	10	4.5	45	10	5.0	50	11	40-140	40
Naphthalene	10	4.7	47	10	5.3	53	12	40-140	40
Benzo(a)anthracene	10	5.3	53	10	6.0	60	12	40-140	40
Benzo(a)pyrene	10	5.5	55	10	6.2	62	12	40-140	40
Benzo(b)fluoranthene	10	5.0	50	10	5.6	56	11	40-140	40
Benzo(k)fluoranthene	10	4.9	49	10	5.5	55	12	40-140	40
Chrysene	10	4.7	47	10	5.3	53	12	40-140	40
Acenaphthylene	10	5.4	54	10	6.2	62	14	40-140	40
Anthracene	10	5.1	51	10	5.8	58	13	40-140	40
Benzo(ghi)perylene	10	4.4	44	10	4.9	49	11	40-140	40
Fluorene	10	4.9	49	10	5.6	56	13	40-140	40
Phenanthrene	10	4.7	47	10	5.3	53	12	40-140	40
Dibenzo(a,h)anthracene	10	5.0	50	10	5.6	56	11	40-140	40
Indeno(1,2,3-cd)pyrene	10	6.2	62	10	6.8	68	9	40-140	40
Pyrene	10	5.6	56	10	6.2	62	10	40-140	40
2-Methylnaphthalene	10	4.9	49	10	5.6	56	13	40-140	40
Pentachlorophenol	10	6.5	65	10	7.4	74	13	40-140	40
Hexachlorobenzene	10	3.9	39 Q	10	4.4	44	12	40-140	40
Hexachloroethane	10	3.9	39 Q	10	4.3	43	10	40-140	40



Matrix Spike Sample Summary

Form 3

Semivolatiles

Client : LaBella Associates, P.C.	Lab Number : L2343170
Project Name : 42 YORK STREET	Project Number : 2230119
Client Sample ID : YS-MW-2023-01 072623	Matrix (Level) : WATER (LOW)
Lab Sample ID : L2343170-01	Analysis Date : 08/01/23 12:58
Matrix Spike : WG1809555-6	MS Analysis Date : 08/08/23 15:29
Matrix Spike Dup : WG1809555-7	MSD Analysis Date : 08/08/23 15:46

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Acenaphthene	ND	40	23	58	40	24	60	4	40-140	40
2-Chloronaphthalene	ND	40	22	55	40	23	58	4	40-140	40
Fluoranthene	0.05J	40	26	65	40	26	65	0	40-140	40
Hexachlorobutadiene	ND	40	19	48	40	20	50	5	40-140	40
Naphthalene	ND	40	20	50	40	21	53	5	40-140	40
Benzo(a)anthracene	0.02J	40	26	65	40	26	65	0	40-140	40
Benzo(a)pyrene	ND	40	27	68	40	27	68	0	40-140	40
Benzo(b)fluoranthene	0.03J	40	24	60	40	24	60	0	40-140	40
Benzo(k)fluoranthene	ND	40	24	60	40	25	63	4	40-140	40
Chrysene	ND	40	22	55	40	23	58	4	40-140	40
Acenaphthylene	ND	40	26	65	40	27	68	4	40-140	40
Anthracene	ND	40	25	63	40	25	63	0	40-140	40
Benzo(ghi)perylene	ND	40	21	53	40	22	55	5	40-140	40
Fluorene	ND	40	25	63	40	25	63	0	40-140	40
Phenanthrene	0.02J	40	23	58	40	23	58	0	40-140	40
Dibenzo(a,h)anthracene	ND	40	24	60	40	24	60	0	40-140	40
Indeno(1,2,3-cd)pyrene	ND	40	27	68	40	28	70	4	40-140	40
Pyrene	0.04J	40	26	65	40	26	65	0	40-140	40
2-Methylnaphthalene	ND	40	22	55	40	23	58	4	40-140	40
Pentachlorophenol	ND	40	30	75	40	27	68	11	40-140	40
Hexachlorobenzene	ND	40	19	48	40	20	50	5	40-140	40
Hexachloroethane	ND	40	18	45	40	19	48	5	40-140	40



**Method Blank Summary
Form 4
Semivolatiles**

Client	: LaBella Associates, P.C.	Lab Number	: L2343170
Project Name	: 42 YORK STREET	Project Number	: 2230119
Lab Sample ID	: WG1809555-1	Lab File ID	: 809555-1
Instrument ID	: SV120	Extraction Date	: 07/30/23
Matrix	: WATER	Analysis Date	: 08/08/23 14:07
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
YS-MW-2023-01 072623	L2343170-01	08/01/23 12:58
MW-01 072623	L2343170-02	08/01/23 13:48
YS-MW-BD- 072623	L2343170-03	08/01/23 14:05
WG1809555-2LCS	WG1809555-2	08/08/23 14:23
WG1809555-3LCSD	WG1809555-3	08/08/23 14:40
YS-MW-2023-01 072623MS	WG1809555-6	08/08/23 15:29
YS-MW-2023-01 072623MSD	WG1809555-7	08/08/23 15:46



**Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)**

Client : LaBella Associates, P.C.	Lab Number : L2343170
Project Name : 42 YORK STREET	Project Number : 2230119
Instrument ID : SV120	Analysis Date : 02/22/23 10:31
Tune Standard : R1668115-12	Tune File ID : deg0222_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	46.6
68	Less than 2.0% of mass 69	0.7 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	53.6
197	Less than 2.0% of mass 198	0.3
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 60.0% of Base Peak	26.7
365	Greater than 1.0% of mass 198	3.5
441	Present, but less than 24% of mass 442	15.9
442	Base Peak, or >50% of mass 198	88.2
443	15.0 - 24.0% of mass 442	17.6 (19.9)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL10	R1668115-1	IL10	02/22/23 11:10
IL9	R1668115-10	IL9	02/22/23 11:27
IL8	R1668115-9	IL8	02/22/23 11:43
IL7	R1668115-8	IL7	02/22/23 12:00
IL6	R1668115-4	IL6	02/22/23 12:16
IL5	R1668115-7	IL5	02/22/23 12:33
IL4	R1668115-6	IL4	02/22/23 12:50
IL3	R1668115-5	IL3	02/22/23 13:06
IL2	R1668115-3	IL2	02/22/23 13:23
IL1	R1668115-2	IL1	02/22/23 13:39
ICV Quant Report	R1668115-11	ICV	02/22/23 13:56



**Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)**

Client	: LaBella Associates, P.C.	Lab Number	: L2343170
Project Name	: 42 YORK STREET	Project Number	: 2230119
Instrument ID	: SV120	Analysis Date	: 08/01/23 07:12
Tune Standard	: WG1810218-1	Tune File ID	: deg0801_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	36.4
68	Less than 2.0% of mass 69	0.4 (1.1)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	47.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.3
275	10.0 - 60.0% of Base Peak	26.1
365	Greater than 1.0% of mass 198	3.3
441	Present, but less than 24% of mass 442	17.9
442	Base Peak, or >50% of mass 198	97.3
443	15.0 - 24.0% of mass 442	18.1 (18.6)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1810218-4TFACTOR-B	WG1810218-4	DEG0801	08/01/23 07:12
WG1810218-5TFACTOR-P	WG1810218-5	DEG0801	08/01/23 07:12
WG1810218-3CCAL	WG1810218-3	CCV0801	08/01/23 07:32
YS-MW-2023-01 072623	L2343170-01	43170-01	08/01/23 12:58
MW-01 072623	L2343170-02	43170-02	08/01/23 13:48
YS-MW-BD- 072623	L2343170-03	43170-03	08/01/23 14:05



**Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)**

Client : LaBella Associates, P.C.	Lab Number : L2343170
Project Name : 42 YORK STREET	Project Number : 2230119
Instrument ID : SV120	Analysis Date : 08/08/23 07:32
Tune Standard : WG1813153-1	Tune File ID : deg0808_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	52.3
68	Less than 2.0% of mass 69	0.7 (1.9)1
69		100
70	Less than 2.0% of mass 69	0.1 (.3)1
127	10.0 - 80.0% of Base Peak	49.9
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	22.1
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than 24% of mass 442	17
442	Base Peak, or >50% of mass 198	86.6
443	15.0 - 24.0% of mass 442	16.8 (19.3)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1813153-4TFACTOR-B	WG1813153-4	DEG0808	08/08/23 07:32
WG1813153-5TFACTOR-P	WG1813153-5	DEG0808	08/08/23 07:32
WG1813153-3CCAL	WG1813153-3	CCV0808	08/08/23 07:57
WG1809555-1BLANK	WG1809555-1	809555-1	08/08/23 14:07
WG1809555-2LCS	WG1809555-2	809555-2	08/08/23 14:23
WG1809555-3LCSD	WG1809555-3	809555-3	08/08/23 14:40
WG1809555-6MS	WG1809555-6	9555-6D1	08/08/23 15:29
WG1809555-7MSD	WG1809555-7	9555-7D1	08/08/23 15:46



**Internal Standard Area and RT Summary
Form 8a
Semivolatiles**

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : SV120
 Sample No : WG1810218-3

Lab Number : L2343170
 Project Number : 2230119
 Analysis Date : 08/01/23 07:32:00
 Lab File ID : CCV0801

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1810218-3	17544	2.19	61932	2.86	35379	3.85
Upper Limit	35088	2.69	123864	3.36	70758	4.35
Lower Limit	8772	1.69	30966	2.36	17690	3.35
Sample ID						
YS-MW-2023-01 072623	19025	2.20	66997	2.87	36326	3.85
MW-01 072623	17116	2.20	59496	2.87	33881	3.85
YS-MW-BD- 072623	19750	2.20	69453	2.87	38373	3.85

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits



Internal Standard Area and RT Summary

Form 8a

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : SV120
 Sample No : WG1810218-3

Lab Number : L2343170
 Project Number : 2230119
 Analysis Date : 08/01/23 07:32:00
 Lab File ID : CCV0801

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1810218-3	79892	4.69	85984	6.26	91192	7.46
Upper Limit	159784	5.19	171968	6.76	182384	7.96
Lower Limit	39946	4.19	42992	5.76	45596	6.96
Sample ID						
YS-MW-2023-01 072623	80101	4.69	88358	6.24	110529	7.44
MW-01 072623	81188	4.69	90418	6.24	109136	7.44
YS-MW-BD- 072623	83660	4.69	87988	6.24	108757	7.45

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits



Internal Standard Area and RT Summary

Form 8a

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : SV120
 Sample No : WG1813153-3

Lab Number : L2343170
 Project Number : 2230119
 Analysis Date : 08/08/23 07:57:00
 Lab File ID : CCV0808

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1813153-3	25900	2.18	96934	2.84	51703	3.82
Upper Limit	51800	2.68	193868	3.34	103406	4.32
Lower Limit	12950	1.68	48467	2.34	25852	3.32
Sample ID						
WG1809555-1 BLANK	28768	2.20	109320	2.86	60171	3.83
WG1809555-2 LCS	35721	2.20	133609	2.86	70977	3.83
WG1809555-3 LCSD	36615	2.20	139118	2.86	75675	3.83
YS-MW-2023-01 072623 MS	25716	2.20	112484	2.86	59094	3.83
YS-MW-2023-01 072623 MSD	25512	2.20	112343	2.86	59316	3.83

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits



Internal Standard Area and RT Summary

Form 8a

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : SV120
 Sample No : WG1813153-3

Lab Number : L2343170
 Project Number : 2230119
 Analysis Date : 08/08/23 07:57:00
 Lab File ID : CCV0808

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1813153-3	107414	4.66	96547	6.26	119148	7.43
Upper Limit	214828	5.16	193094	6.76	238296	7.93
Lower Limit	53707	4.16	48274	5.76	59574	6.93
Sample ID						
WG1809555-1 BLANK	132716	4.67	130012	6.21	150135	7.37
WG1809555-2 LCS	157188	4.67	163400	6.21	190080	7.37
WG1809555-3 LCSD	169020	4.67	169713	6.21	195782	7.37
YS-MW-2023-01 072623 MS	135824	4.67	131310	6.21	148339	7.37
YS-MW-2023-01 072623 MSD	136258	4.67	129616	6.21	145599	7.38

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits





Date Created: 03/07/23
 Created By: Jason Hebert
 File: PM14021-1
 Page: 1

EPA 8270E Low Level PAH (WATER)

Holding Time: 7 days
 Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	
Acenaphthene	83-32-9	0.1	0.035	ug/l	40-140	40	40-140	40	40		
2-Chloronaphthalene	91-58-7	0.2	0.035	ug/l	40-140	40	40-140	40	40		
Fluoranthene	206-44-0	0.1	0.038	ug/l	40-140	40	40-140	40	40		
Hexachlorobutadiene	87-68-3	0.5	0.036	ug/l	40-140	40	40-140	40	40		
Naphthalene	91-20-3	0.1	0.043	ug/l	40-140	40	40-140	40	40		
Benzo(a)anthracene	56-55-3	0.1	0.018	ug/l	40-140	40	40-140	40	40		
Benzo(a)pyrene	50-32-8	0.1	0.039	ug/l	40-140	40	40-140	40	40		
Benzo(b)fluoranthene	205-99-2	0.1	0.016	ug/l	40-140	40	40-140	40	40		
Benzo(k)fluoranthene	207-08-9	0.1	0.042	ug/l	40-140	40	40-140	40	40		
Chrysene	218-01-9	0.1	0.038	ug/l	40-140	40	40-140	40	40		
Acenaphthylene	208-96-8	0.1	0.035	ug/l	40-140	40	40-140	40	40		
Anthracene	120-12-7	0.1	0.035	ug/l	40-140	40	40-140	40	40		
Benzo(ghi)perylene	191-24-2	0.1	0.042	ug/l	40-140	40	40-140	40	40		
Fluorene	86-73-7	0.1	0.037	ug/l	40-140	40	40-140	40	40		
Phenanthrene	85-01-8	0.1	0.015	ug/l	40-140	40	40-140	40	40		
Dibenzo(a,h)anthracene	53-70-3	0.1	0.039	ug/l	40-140	40	40-140	40	40		
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1	0.04	ug/l	40-140	40	40-140	40	40		
Pyrene	129-00-0	0.1	0.04	ug/l	40-140	40	40-140	40	40		
1-Methylnaphthalene	90-12-0	0.1	0.041	ug/l	40-140	40	40-140	40	40		
2-Methylnaphthalene	91-57-6	0.1	0.045	ug/l	40-140	40	40-140	40	40		
Pentachlorophenol	87-86-5	0.8	0.22	ug/l	40-140	40	40-140	40	40		
Hexachlorobenzene	118-74-1	0.8	0.032	ug/l	40-140	40	40-140	40	40		
Hexachloroethane	67-72-1	0.8	0.03	ug/l	40-140	40	40-140	40	40		
<i>2-Fluorophenol</i>	<i>367-12-4</i>										<i>21-120</i>
<i>Phenol-d6</i>	<i>13127-88-3</i>										<i>10-120</i>
<i>Nitrobenzene-d5</i>	<i>4165-60-0</i>										<i>23-120</i>
<i>2-Fluorobiphenyl</i>	<i>321-60-8</i>										<i>15-120</i>
<i>2,4,6-Tribromophenol</i>	<i>118-79-6</i>										<i>10-120</i>
<i>4-Terphenyl-d14</i>	<i>1718-51-0</i>										<i>41-149</i>

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Date Created: 03/07/23
 Created By: Jason Hebert
 File: PM14022-1
 Page: 1

EPA 8270E Low Level PAH (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	
Acenaphthene	83-32-9	6.68	1.4028	ug/kg	40-140	50	40-140	50	50		
2-Chloronaphthalene	91-58-7	6.68	0.8684	ug/kg	40-140	50	40-140	50	50		
Fluoranthene	206-44-0	6.68	0.4676	ug/kg	40-140	50	40-140	50	50		
Hexachlorobutadiene	87-68-3	6.68	0.9352	ug/kg	34-107	50	40-140	50	50		
Naphthalene	91-20-3	6.68	1.2024	ug/kg	40-140	50	40-140	50	50		
Benzo(a)anthracene	56-55-3	6.68	0.6346	ug/kg	40-140	50	40-140	50	50		
Benzo(a)pyrene	50-32-8	6.68	0.8016	ug/kg	40-140	50	40-140	50	50		
Benzo(b)fluoranthene	205-99-2	6.68	0.6346	ug/kg	40-140	50	40-140	50	50		
Benzo(k)fluoranthene	207-08-9	6.68	0.6012	ug/kg	40-140	50	40-140	50	50		
Chrysene	218-01-9	6.68	0.501	ug/kg	40-140	50	40-140	50	50		
Acenaphthylene	208-96-8	6.68	0.835	ug/kg	40-140	50	40-140	50	50		
Anthracene	120-12-7	6.68	0.5344	ug/kg	40-140	50	40-140	50	50		
Benzo(ghi)perylene	191-24-2	6.68	0.5678	ug/kg	40-140	50	40-140	50	50		
Fluorene	86-73-7	6.68	0.8016	ug/kg	40-140	50	40-140	50	50		
Phenanthrene	85-01-8	6.68	0.5678	ug/kg	40-140	50	40-140	50	50		
Dibenzo(a,h)anthracene	53-70-3	6.68	0.668	ug/kg	40-140	50	40-140	50	50		
Indeno(1,2,3-cd)Pyrene	193-39-5	6.68	0.8016	ug/kg	40-140	50	40-140	50	50		
Pyrene	129-00-0	6.68	0.4676	ug/kg	35-142	50	35-142	50	50		
1-Methylnaphthalene	90-12-0	6.68	1.0354	ug/kg	40-140	50	40-140	50	50		
2-Methylnaphthalene	91-57-6	6.68	1.9038	ug/kg	40-140	50	40-140	50	50		
Pentachlorophenol	87-86-5	26.72	2.9392	ug/kg	17-109	50	17-109	50	50		
Hexachlorobenzene	118-74-1	6.68	0.7014	ug/kg	40-140	50	40-140	50	50		
Hexachloroethane	67-72-1	6.68	1.2358	ug/kg	29-106	50	40-140	50	50		
2-Fluorophenol	367-12-4										25-120
Phenol-d6	13127-88-3										10-120
Nitrobenzene-d5	4165-60-0										23-120
2-Fluorobiphenyl	321-60-8										30-120
2,4,6-Tribromophenol	118-79-6										10-136
4-Terphenyl-d14	1718-51-0										18-120

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client : LaBella Associates, P.C.	Lab Number : L2343170
Project Name : 42 YORK STREET	Project Number : 2230119
Lab ID : L2343170-01	Date Collected : 07/26/23 10:45
Client ID : YS-MW-2023-01 072623	Date Received : 07/26/23
Sample Location : ROCHESTER, NY	Date Analyzed : 08/01/23 12:58
Sample Matrix : WATER	Date Extracted : 07/30/23
Analytical Method : 1,8270E-SIM	Dilution Factor : 1
Lab File ID : 43170-01	Analyst : JJW
Sample Amount : 1000 ml	Instrument ID : SV120
Extraction Method : EPA 3510C	GC Column : RXI-5SiIM
Extract Volume : 1000 uL	%Solids : N/A
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	0.10	0.04	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.04	U
206-44-0	Fluoranthene	0.05	0.10	0.04	J
87-68-3	Hexachlorobutadiene	ND	0.50	0.04	U
91-20-3	Naphthalene	ND	0.10	0.04	U
56-55-3	Benzo(a)anthracene	0.02	0.10	0.02	J
50-32-8	Benzo(a)pyrene	ND	0.10	0.04	U
205-99-2	Benzo(b)fluoranthene	0.03	0.10	0.02	J
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.04	U
218-01-9	Chrysene	ND	0.10	0.04	U
208-96-8	Acenaphthylene	ND	0.10	0.04	U
120-12-7	Anthracene	ND	0.10	0.04	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.04	U
86-73-7	Fluorene	ND	0.10	0.04	U
85-01-8	Phenanthrene	0.02	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.04	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.04	U
129-00-0	Pyrene	0.04	0.10	0.04	J
91-57-6	2-Methylnaphthalene	ND	0.10	0.05	U
87-86-5	Pentachlorophenol	ND	0.80	0.22	U
118-74-1	Hexachlorobenzene	ND	0.80	0.03	U
67-72-1	Hexachloroethane	ND	0.80	0.03	U



Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-02
 Client ID : MW-01 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8270E-SIM
 Lab File ID : 43170-02
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 13:10
 Date Received : 07/26/23
 Date Analyzed : 08/01/23 13:48
 Date Extracted : 07/30/23
 Dilution Factor : 1
 Analyst : JJW
 Instrument ID : SV120
 GC Column : RXI-5SiLM
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	0.10	0.04	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.04	U
206-44-0	Fluoranthene	ND	0.10	0.04	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.04	U
91-20-3	Naphthalene	ND	0.10	0.04	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.04	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.02	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.04	U
218-01-9	Chrysene	ND	0.10	0.04	U
208-96-8	Acenaphthylene	ND	0.10	0.04	U
120-12-7	Anthracene	ND	0.10	0.04	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.04	U
86-73-7	Fluorene	ND	0.10	0.04	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.04	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.04	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.05	U
87-86-5	Pentachlorophenol	1.9	0.80	0.22	
118-74-1	Hexachlorobenzene	ND	0.80	0.03	U
67-72-1	Hexachloroethane	ND	0.80	0.03	U



Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-03
 Client ID : YS-MW-BD- 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,8270E-SIM
 Lab File ID : 43170-03
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 00:00
 Date Received : 07/26/23
 Date Analyzed : 08/01/23 14:05
 Date Extracted : 07/30/23
 Dilution Factor : 1
 Analyst : JJW
 Instrument ID : SV120
 GC Column : RXI-5SiIM
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	0.10	0.04	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.04	U
206-44-0	Fluoranthene	ND	0.10	0.04	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.04	U
91-20-3	Naphthalene	ND	0.10	0.04	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.04	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.02	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.04	U
218-01-9	Chrysene	ND	0.10	0.04	U
208-96-8	Acenaphthylene	ND	0.10	0.04	U
120-12-7	Anthracene	ND	0.10	0.04	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.04	U
86-73-7	Fluorene	ND	0.10	0.04	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.04	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.04	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.05	U
87-86-5	Pentachlorophenol	0.27	0.80	0.22	J
118-74-1	Hexachlorobenzene	ND	0.80	0.03	U
67-72-1	Hexachloroethane	ND	0.80	0.03	U



Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : 43170-01.D
 Acq On : 01 Aug 2023 12:58 pm
 Operator : SV120:jjw
 Sample : L2343170-01,32,,ah
 Misc : WG1810218,WG1809555,ical19770
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 08 11:47:00 2023
 Quant Method : I:\8270sim\sv120\230801ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 01 07:47:49 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230801ST\ccv0801.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.201	152	19025	4.000	ug/ml	0.00
Standard Area 1 = 17544			Recovery =	108.44%		
8) Naphthalene-d8	2.871	136	66997	4.000	ug/ml	0.00
Standard Area 1 = 61932			Recovery =	108.18%		
16) Acenaphthene-d10	3.852	164	36326	4.000	ug/ml	0.00
Standard Area 1 = 35379			Recovery =	102.68%		
20) Phenanthrene-d10	4.693	188	80101	4.000	ug/ml	0.00
Standard Area 1 = 79892			Recovery =	100.26%		
30) Chrysene-d12	6.244	240	88358	4.000	ug/ml	-0.02
Standard Area 1 = 85984			Recovery =	102.76%		
34) Perylene-d12	7.444	264	110529	4.000	ug/ml	-0.02
Standard Area 1 = 91192			Recovery =	121.20%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.603	112	110238	22.356	ug/ml	0.01
Spiked Amount 50.000	Range 15 - 110		Recovery =	44.71%		
3) Phenol-d6	2.014	99	92990	15.265	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	30.53%		
7) Nitrobenzene-d5	2.485	82	97846	20.359	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	81.44%		
13) 2-Fluorobiphenyl	3.470	172	213287	16.107	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	64.43%		
19) 2,4,6-Tribromophenol	4.301	330	63781	33.769	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	67.54%		
26) O-Terphenyl-MS	0.000	230	0d	0.000	ug/ml	
Spiked Amount 20.000	Range 40 - 140		Recovery =	0.00%#		
29) 4-Terphenyl-d14	5.610	244	280732	17.083	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	68.33%		
Target Compounds						
4) Hexachloroethane	2.459	117	53M6	0.023	ug/ml	
9) Naphthalene	2.881	128	360M4	0.021	ug/ml	
10) Hexachlorobutadiene	2.954	225	59	0.018	ug/ml	96
11) 2-Methylnaphthalene	3.264	142	129	0.012	ug/ml	94
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
15) Acenaphthylene	0.000		0	N.D.	d	
17) Acenaphthene	0.000		0	N.D.	d	
18) Fluorene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : 43170-01.D
 Acq On : 01 Aug 2023 12:58 pm
 Operator : SV120:jjw
 Sample : L2343170-01,32,,ah
 Misc : WG1810218,WG1809555,ical19770
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 08 11:47:00 2023
 Quant Method : I:\8270sim\sv120\230801ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 01 07:47:49 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230801ST\ccv0801.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) Hexachlorobenzene	0.000		0	N.D.	d	
23) Pentachlorophenol	0.000		0	N.D.	d	
24) Phenanthrene	4.708	178	512M3	0.023	ug/ml	
25) Anthracene	0.000		0	N.D.	d	
27) Fluoranthene	5.388	202	1270	0.054	ug/ml	98
28) Pyrene	5.518	202	1086	0.044	ug/ml	99
31) Benzo[a]anthracene	6.242	228	569M3	0.020	ug/ml	
32) Chrysene	6.262	228	581M4	0.019	ug/ml	
35) Benzo[b]fluoranthene	7.080	252	825	0.025	ug/ml	98
36) Benzo[k]fluoranthene	0.000		0	N.D.	d	
37) Benzo[a]pyrene	7.384	252	415M4	0.015	ug/ml	
38) Indeno[1,2,3-cd]pyrene	8.677	276	431M6	0.017	ug/ml	
39) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
40) Benzo[g,h,i]perylene	9.019	276	453	0.014	ug/ml	97

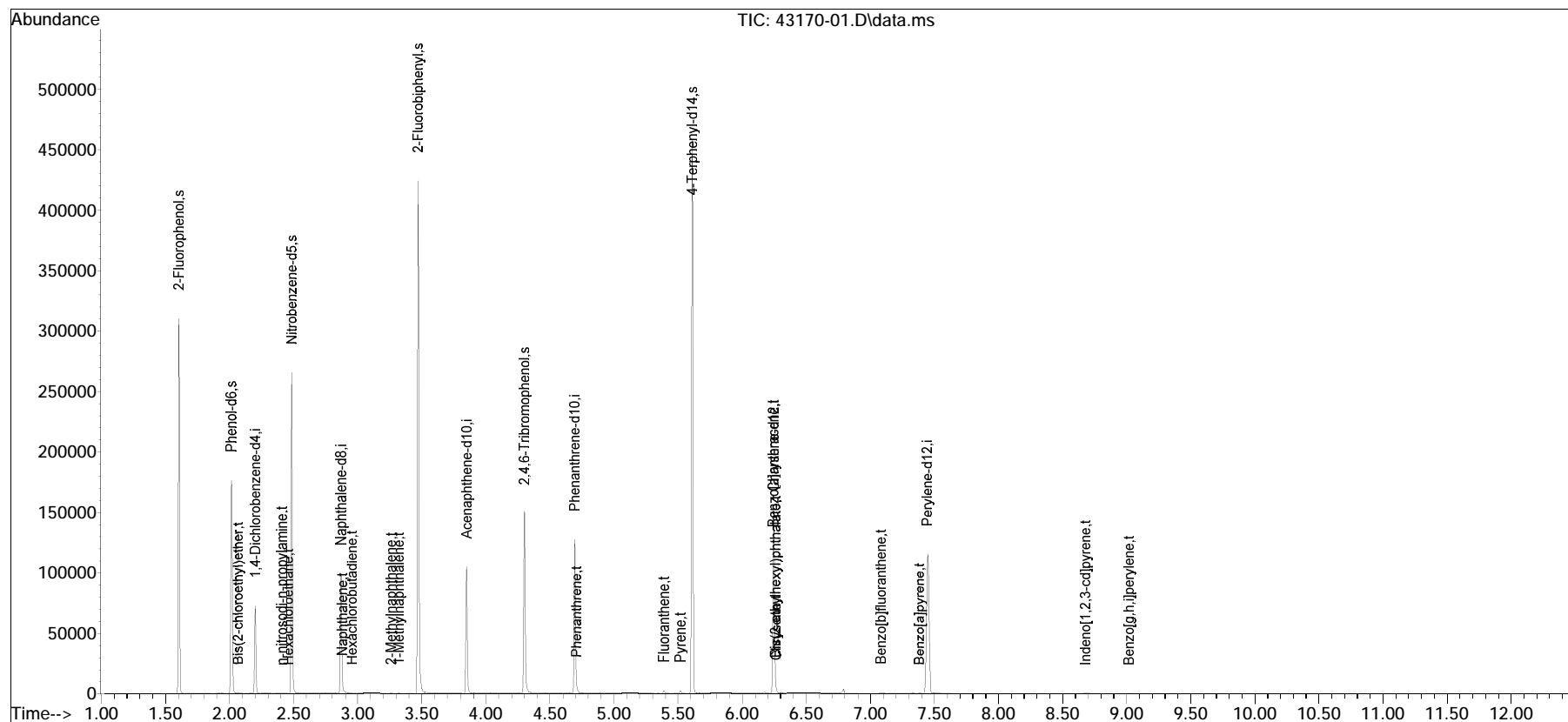
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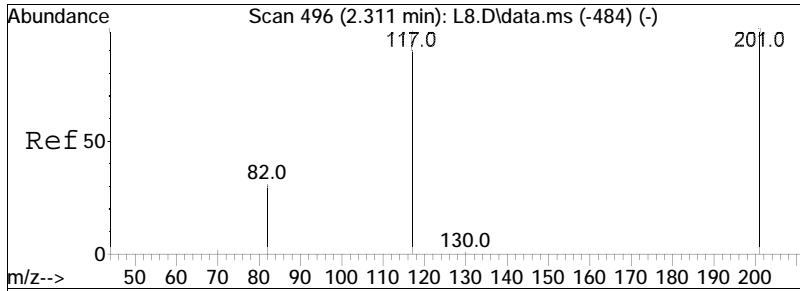
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : 43170-01.D
 Acq On : 01 Aug 2023 12:58 pm
 Operator : SV120:jjw
 Sample : L2343170-01,32,,ah
 Misc : WG1810218,WG1809555,ical19770
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 08 11:47:00 2023
 Quant Method : I:\8270sim\sv120\230801ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 01 07:47:49 2023
 Response via : Initial Calibration

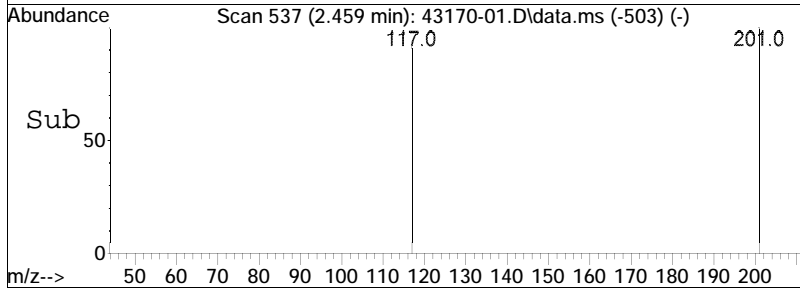
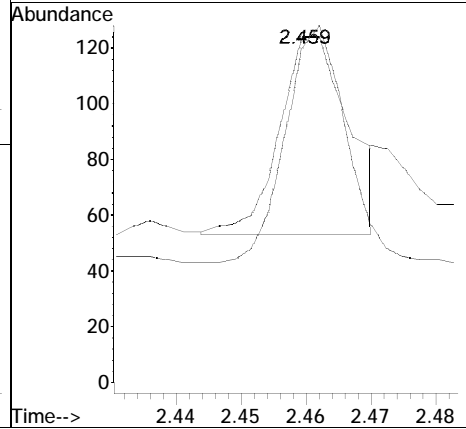
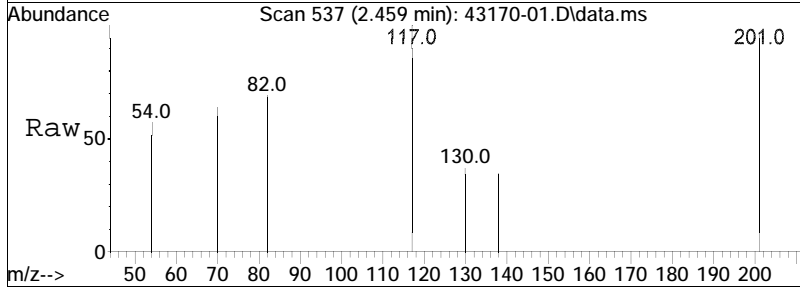
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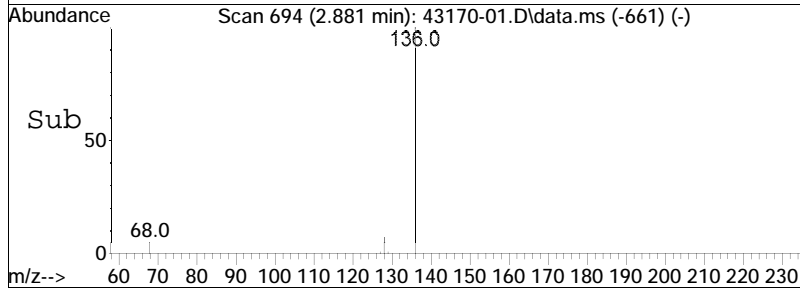
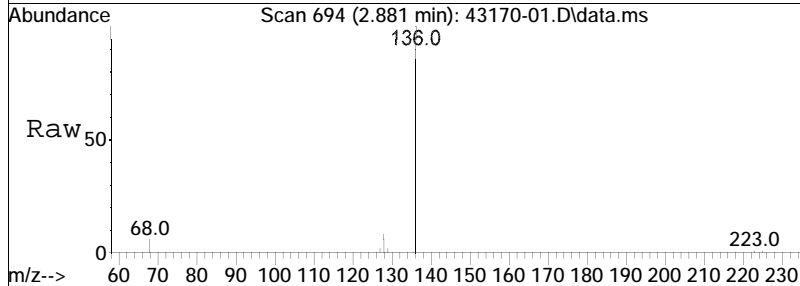
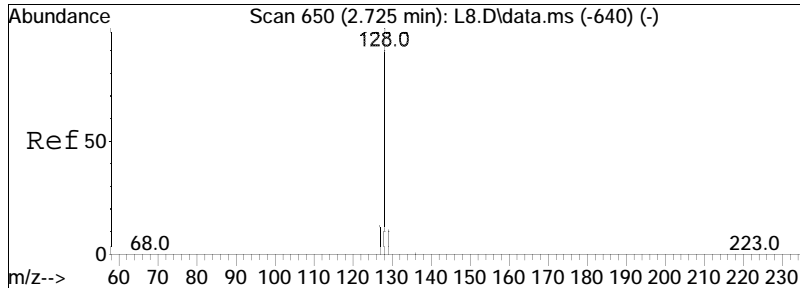




#4
 Hexachloroethane
 Concen: 0.02 ug/ml M6
 RT: 2.459 min Scan# 537
 Delta R.T. 0.007 min
 Lab File: 43170-01.D
 Acq: 01 Aug 2023 12:58 pm

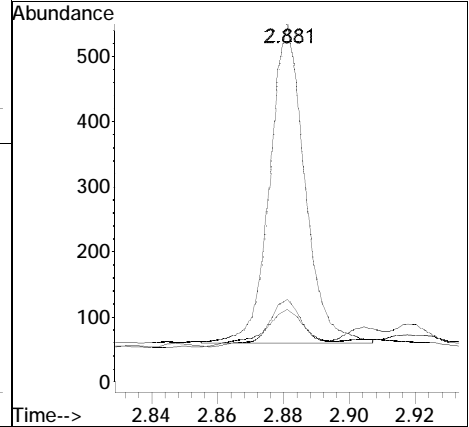
Tgt Ion: 117 Resp: 53
 Ion Ratio Lower Upper
 117 100
 201 103.8 77.1 115.7

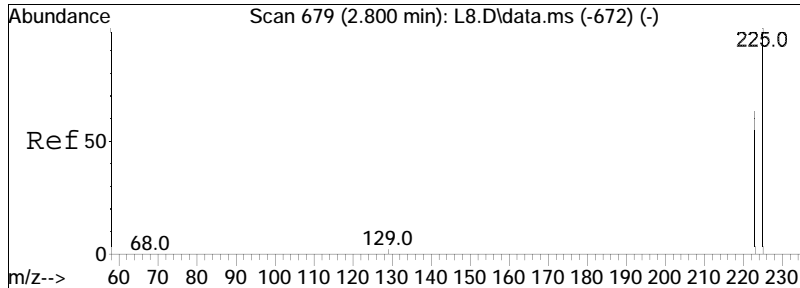




#9
 Naphthalene
 Concen: 0.02 ug/ml M4
 RT: 2.881 min Scan# 694
 Delta R.T. 0.007 min
 Lab File: 43170-01.D
 Acq: 01 Aug 2023 12:58 pm

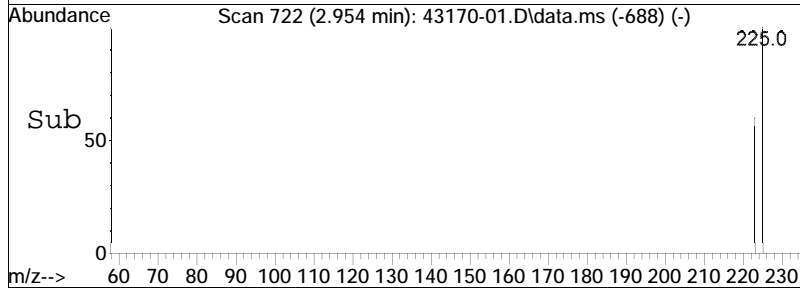
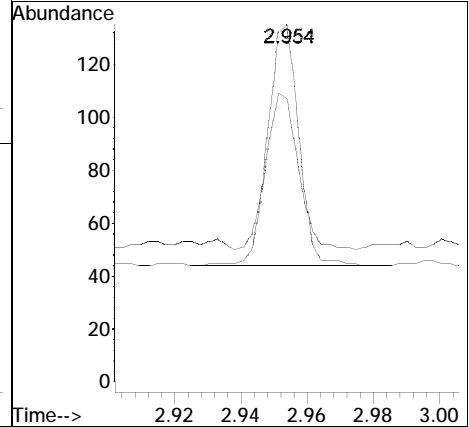
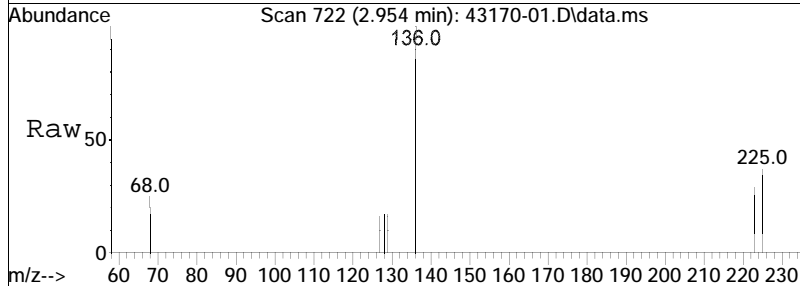
Tgt Ion	Ratio	Lower	Upper
128	100		
129	13.6	8.7	13.1#
127	14.4	10.8	16.2

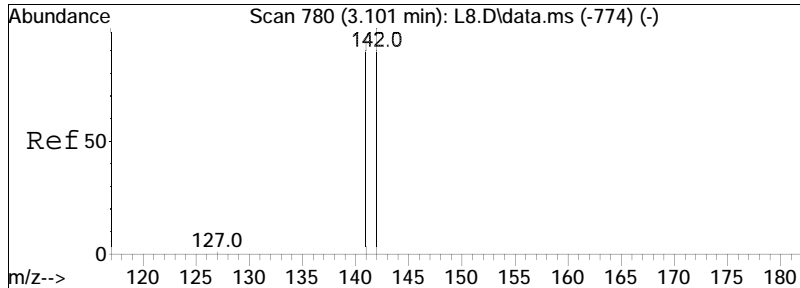




#10
 Hexachlorobutadiene
 Concen: 0.02 ug/ml
 RT: 2.954 min Scan# 722
 Delta R.T. 0.007 min
 Lab File: 43170-01.D
 Acq: 01 Aug 2023 12:58 pm

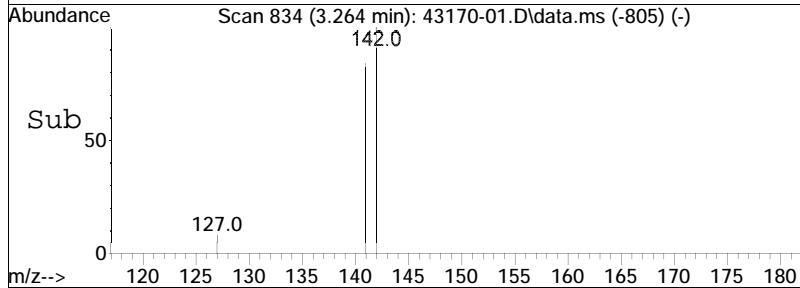
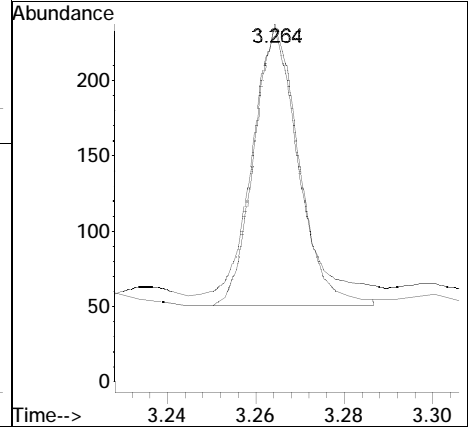
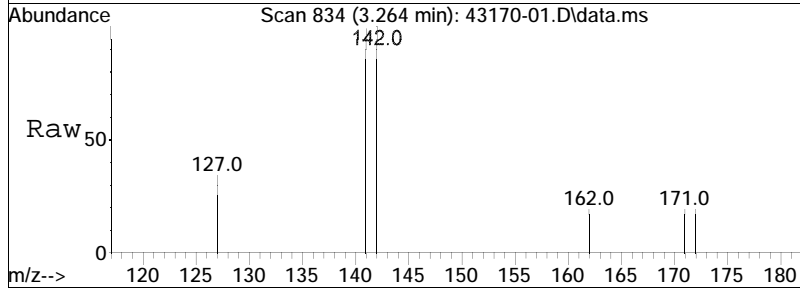
Tgt Ion	Resp	Lower	Upper
225	100		
223	66.1	50.4	75.6

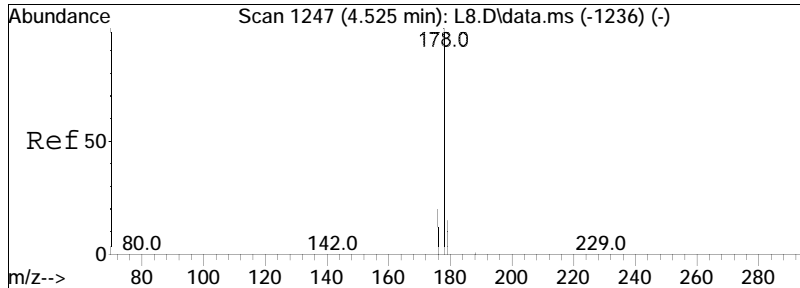




#11
 2-Methylnaphthalene
 Concen: 0.01 ug/ml
 RT: 3.264 min Scan# 834
 Delta R.T. 0.005 min
 Lab File: 43170-01.D
 Acq: 01 Aug 2023 12:58 pm

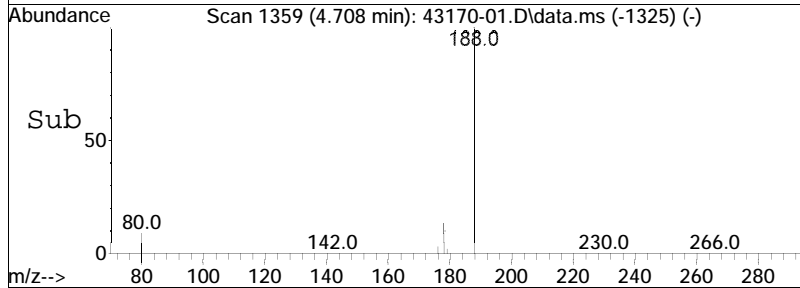
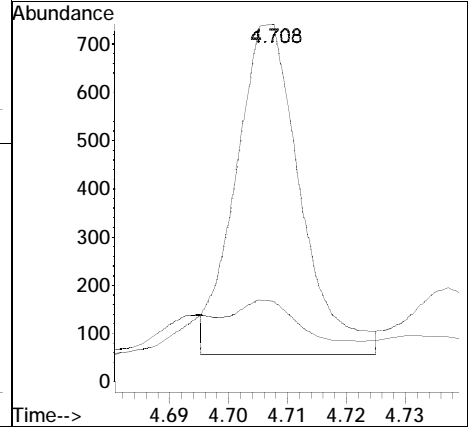
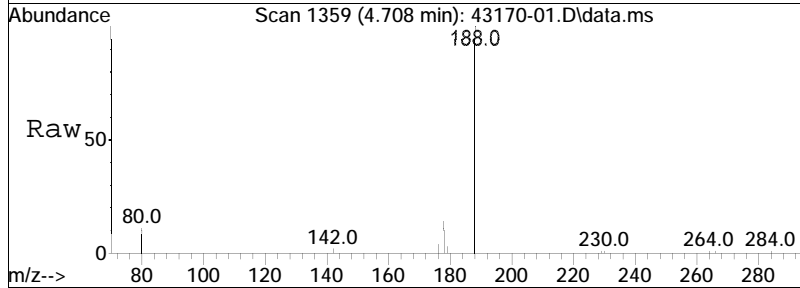
Tgt Ion	Ratio	Lower	Upper
142	100		
141	98.4	74.2	111.4

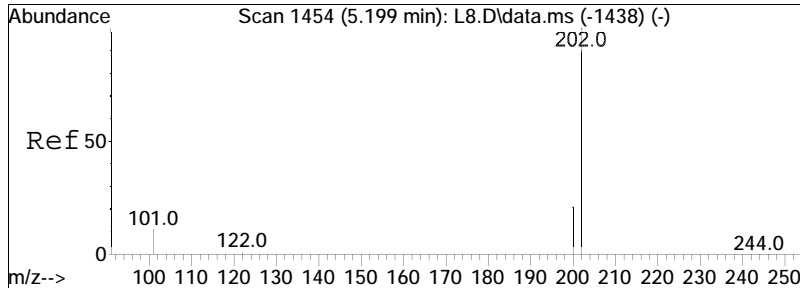




#24
 Phenanthrene
 Concen: 0.02 ug/ml M3
 RT: 4.708 min Scan# 1359
 Delta R.T. 0.005 min
 Lab File: 43170-01.D
 Acq: 01 Aug 2023 12:58 pm

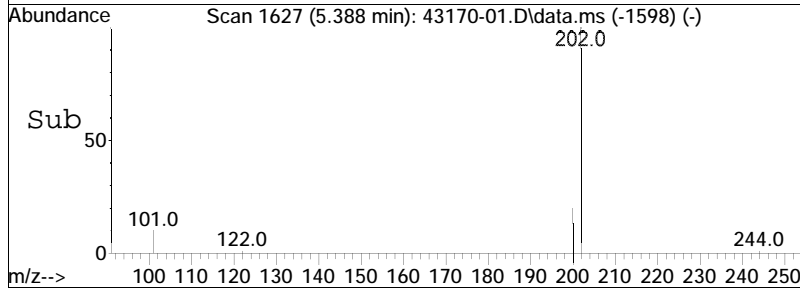
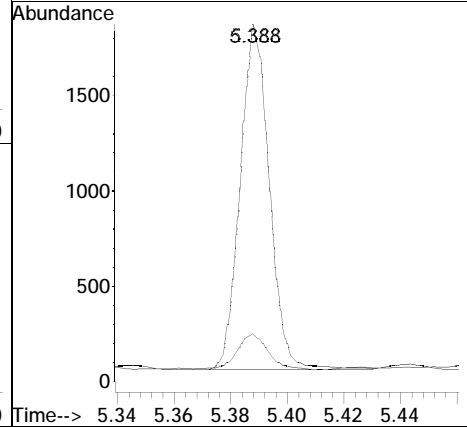
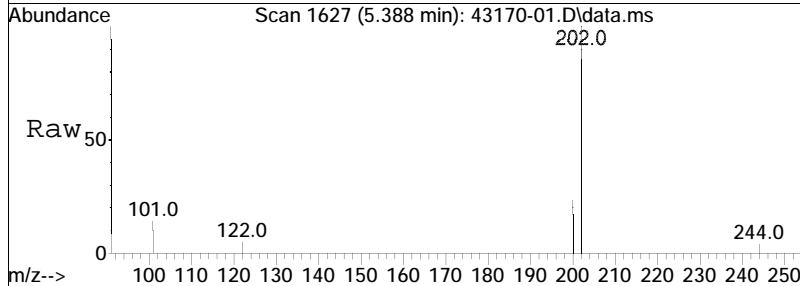
Tgt Ion	Resp	Lower	Upper
178	100		
179	13.5	12.3	18.5

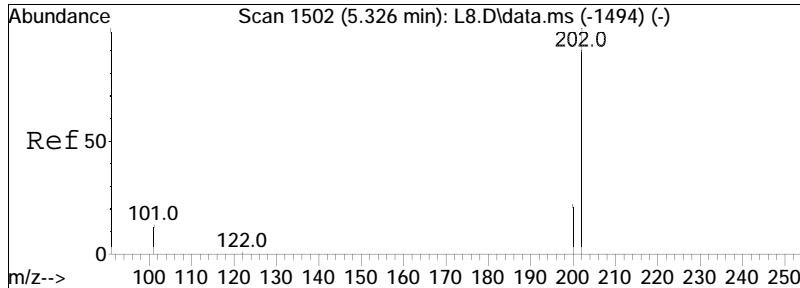




#27
 Fluoranthene
 Concen: 0.05 ug/ml
 RT: 5.388 min Scan# 1627
 Delta R.T. -0.002 min
 Lab File: 43170-01.D
 Acq: 01 Aug 2023 12:58 pm

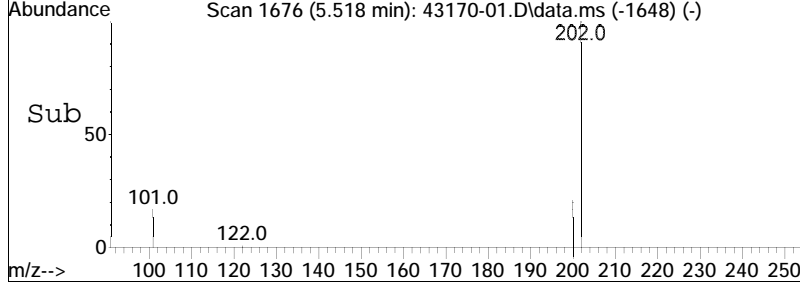
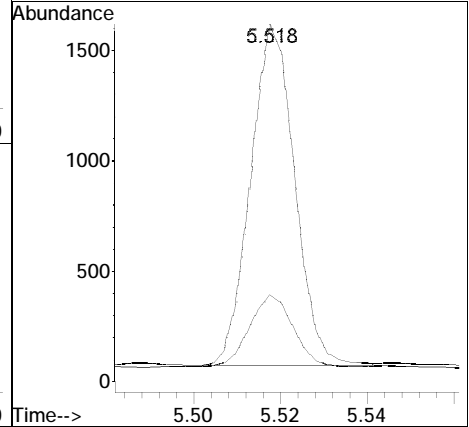
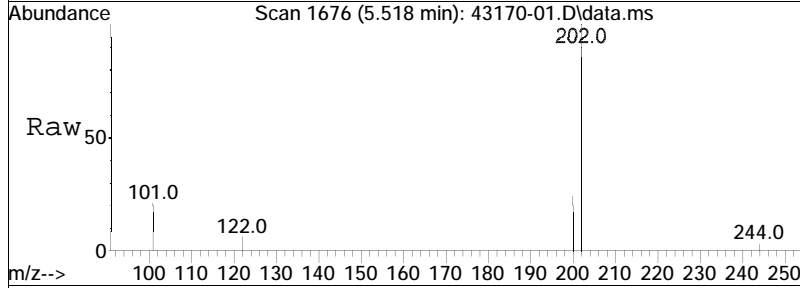
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.9	9.3	13.9

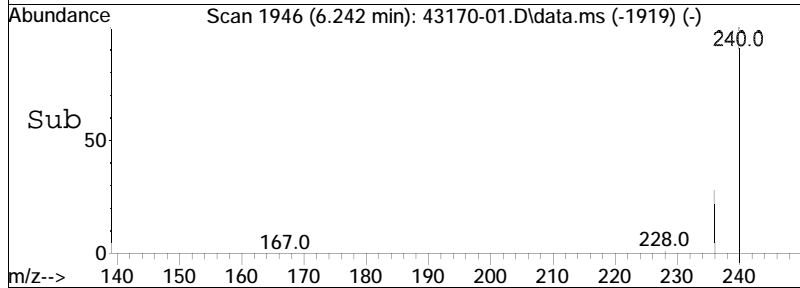
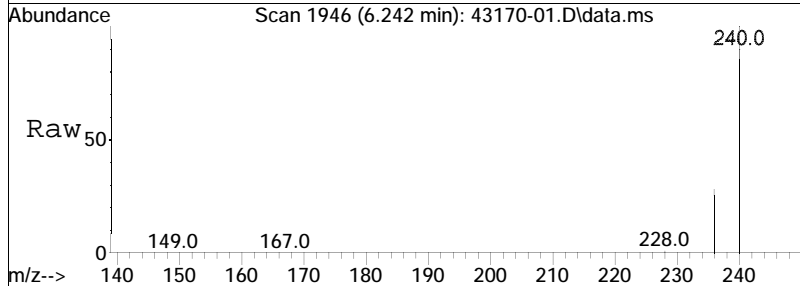
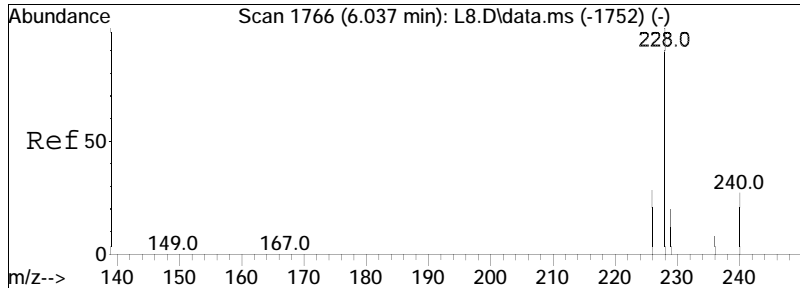




#28
 Pyrene
 Concen: 0.04 ug/ml
 RT: 5.518 min Scan# 1676
 Delta R.T. -0.005 min
 Lab File: 43170-01.D
 Acq: 01 Aug 2023 12:58 pm

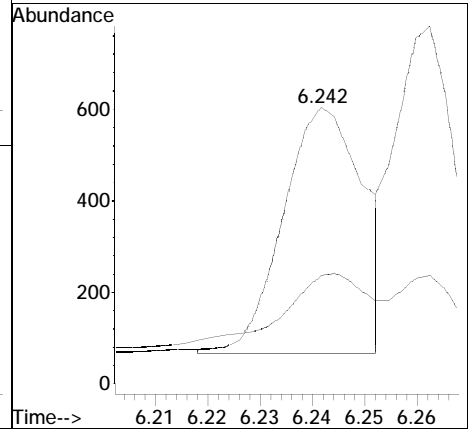
Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.3	17.4	26.2

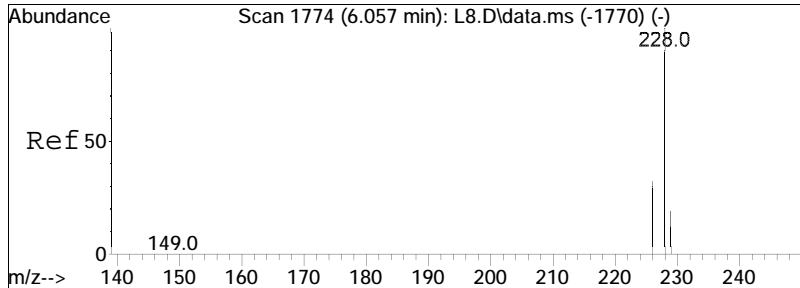




#31
 Benzo[a]anthracene
 Concen: 0.02 ug/ml M3
 RT: 6.242 min Scan# 1946
 Delta R.T. -0.010 min
 Lab File: 43170-01.D
 Acq: 01 Aug 2023 12:58 pm

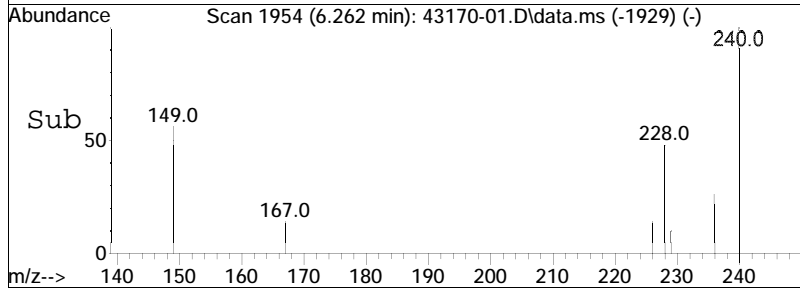
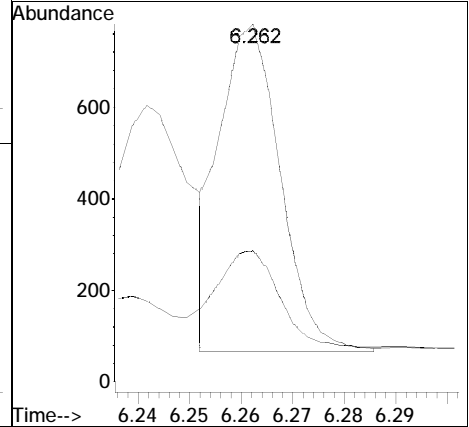
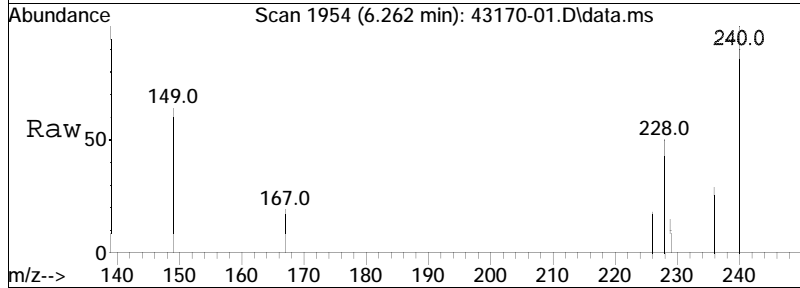
Tgt Ion	Resp	Lower	Upper
228	100		
229	29.5	15.6	23.4#

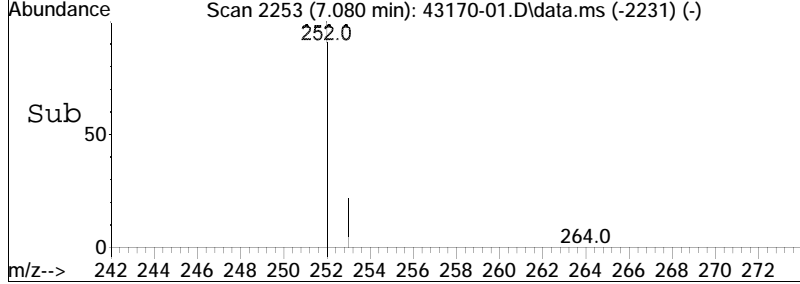
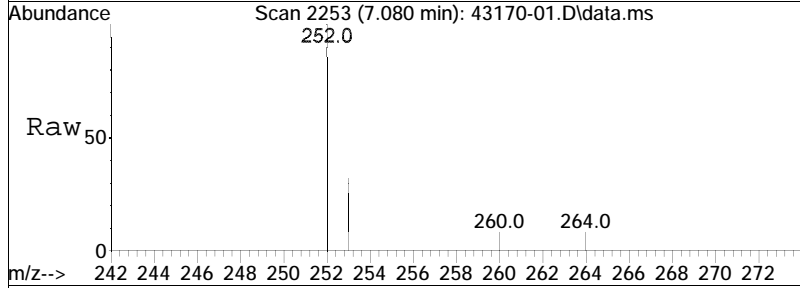
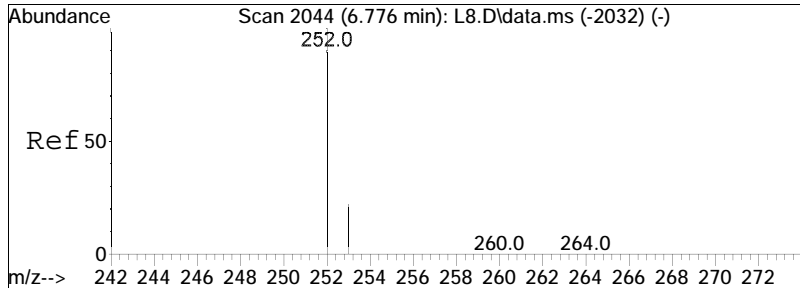




#32
 Chrysene
 Concen: 0.02 ug/ml M4
 RT: 6.262 min Scan# 1954
 Delta R.T. -0.015 min
 Lab File: 43170-01.D
 Acq: 01 Aug 2023 12:58 pm

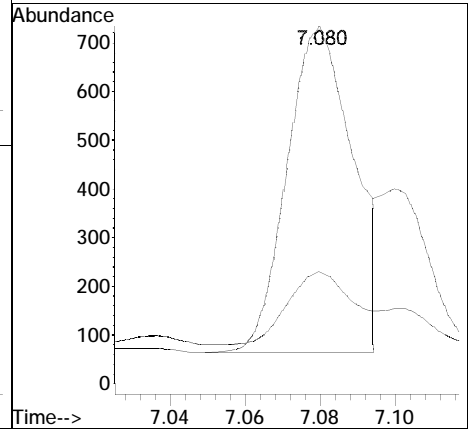
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.9	37.3

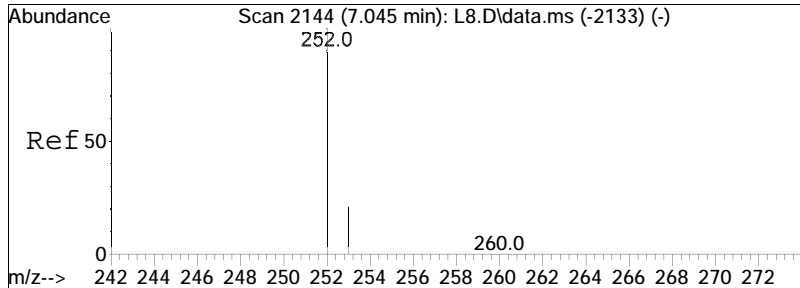




#35
 Benzo[b]fluoranthene
 Concen: 0.02 ug/ml
 RT: 7.080 min Scan# 2253
 Delta R.T. -0.017 min
 Lab File: 43170-01.D
 Acq: 01 Aug 2023 12:58 pm

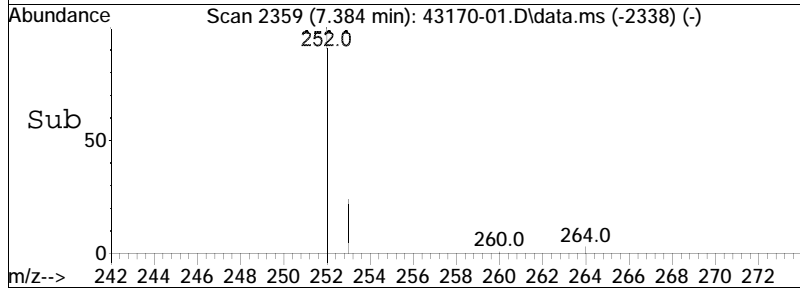
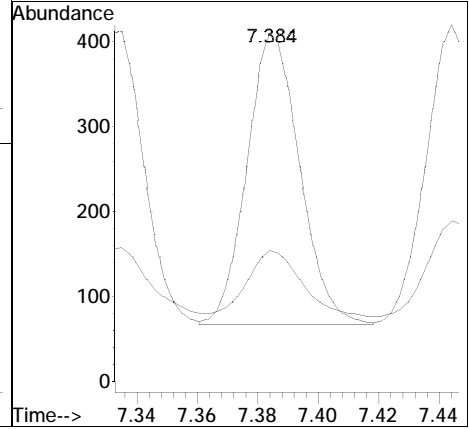
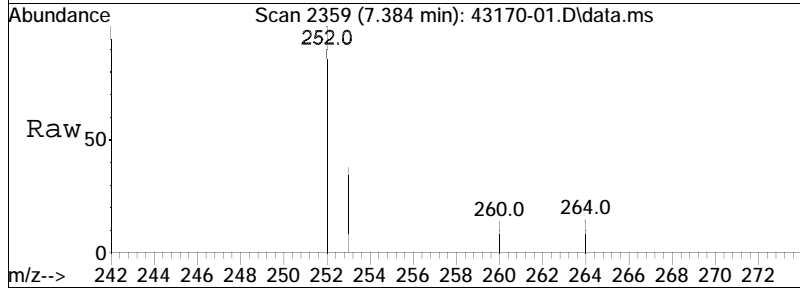
Tgt Ion	Resp	Lower	Upper
252	100		
253	22.4	17.2	25.8

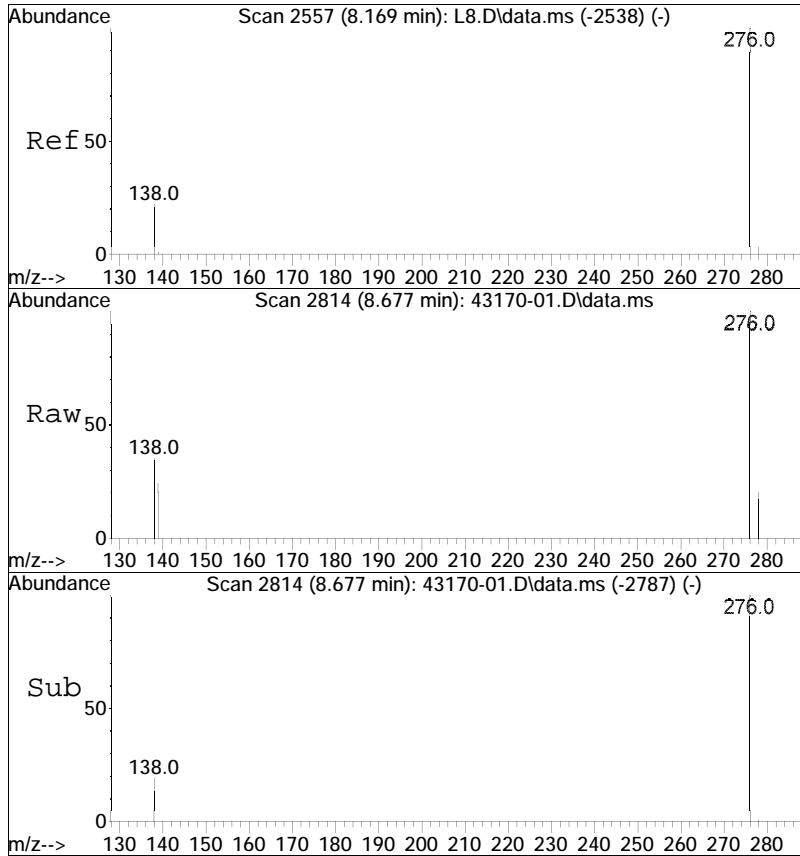




#37
 Benzo[a]pyrene
 Concen: 0.02 ug/ml M4
 RT: 7.384 min Scan# 2359
 Delta R.T. -0.020 min
 Lab File: 43170-01.D
 Acq: 01 Aug 2023 12:58 pm

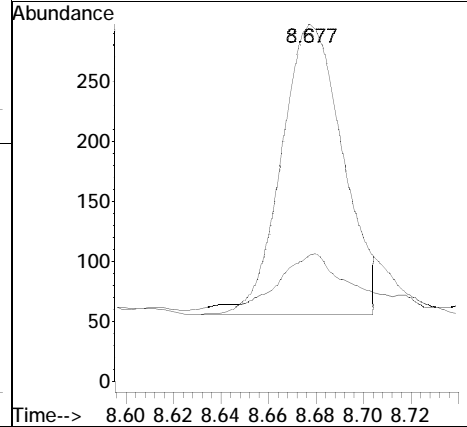
Tgt Ion	Resp	Lower	Upper
252	100		
253	23.6	16.8	25.2

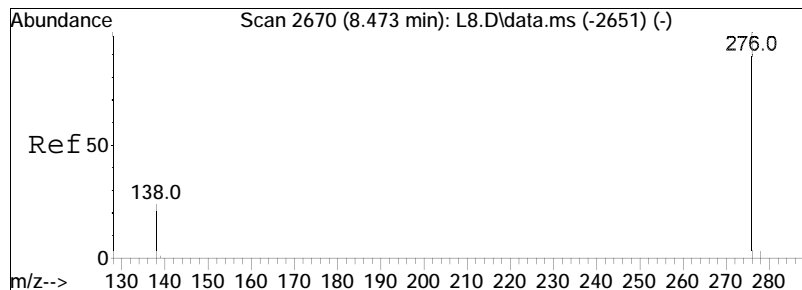




#38
 Indeno[1,2,3-cd]pyrene
 Concen: 0.02 ug/ml M6
 RT: 8.677 min Scan# 2814
 Delta R.T. -0.009 min
 Lab File: 43170-01.D
 Acq: 01 Aug 2023 12:58 pm

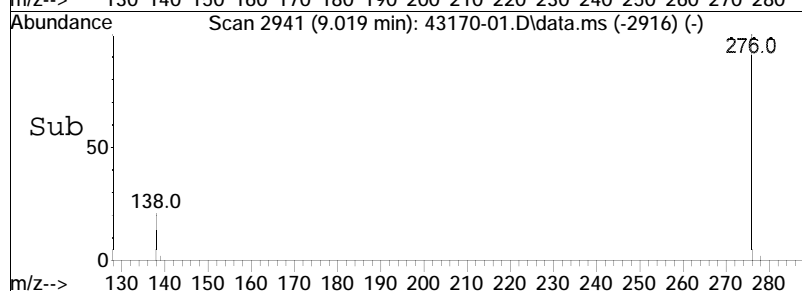
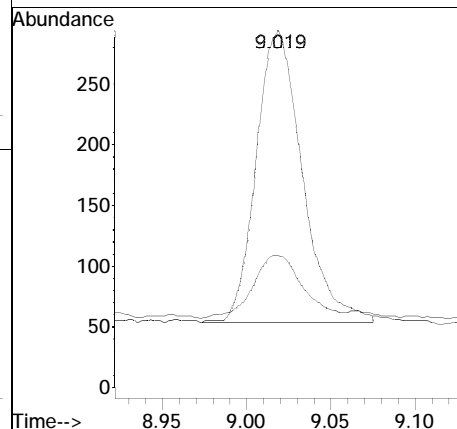
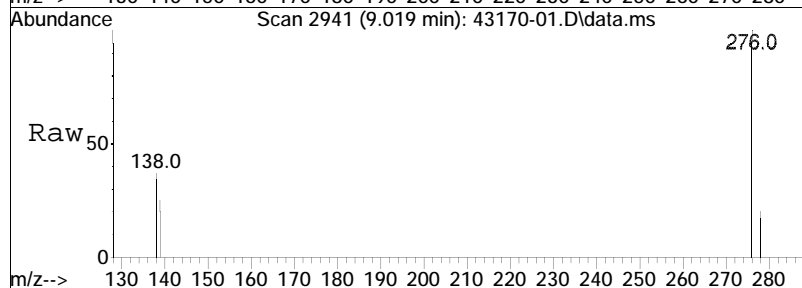
Tgt Ion	Resp	Lower	Upper
276	100		
138	21.1	17.9	26.9





#40
 Benzo[g,h,i]perylene
 Concen: 0.01 ug/ml
 RT: 9.019 min Scan# 2941
 Delta R.T. -0.014 min
 Lab File: 43170-01.D
 Acq: 01 Aug 2023 12:58 pm

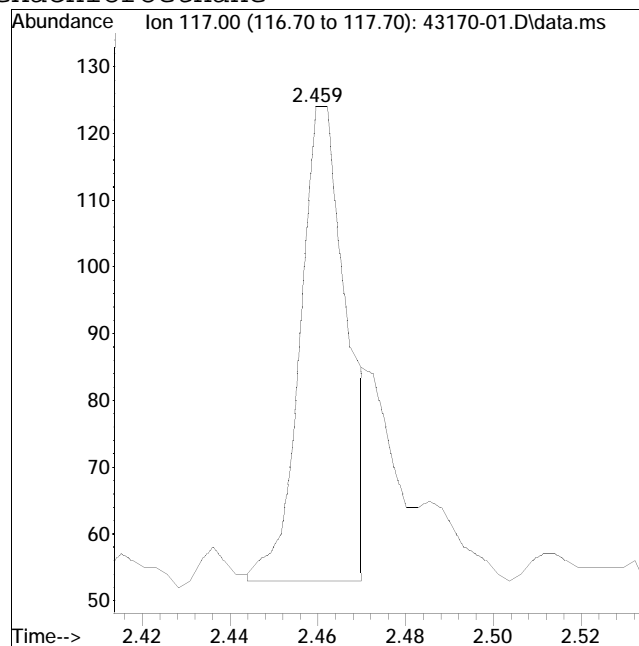
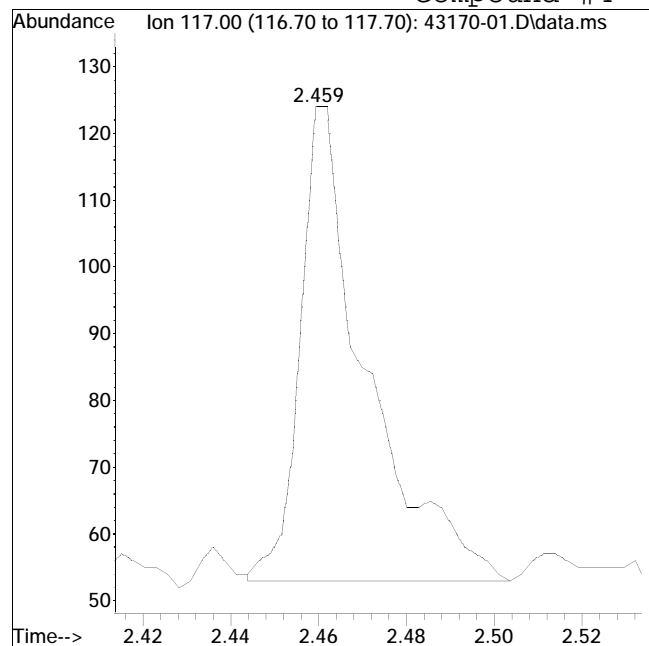
Tgt Ion	Resp	Lower	Upper
276	100		
138	23.4	20.1	30.1



Manual Integration Report

Data Path : I:\8270SIM\sv120\230801ST\QMethod : simtech230222-sv120.M
Data File : 43170-01.D Operator : SV120:jjw
Date Inj'd : 8/1/2023 12:58 pm Instrument : SV120
Sample : L2343170-01,32,,ah Quant Date : 8/1/2023 1:12 pm

Compound #4: Hexachloroethane



Original Peak Response = 75

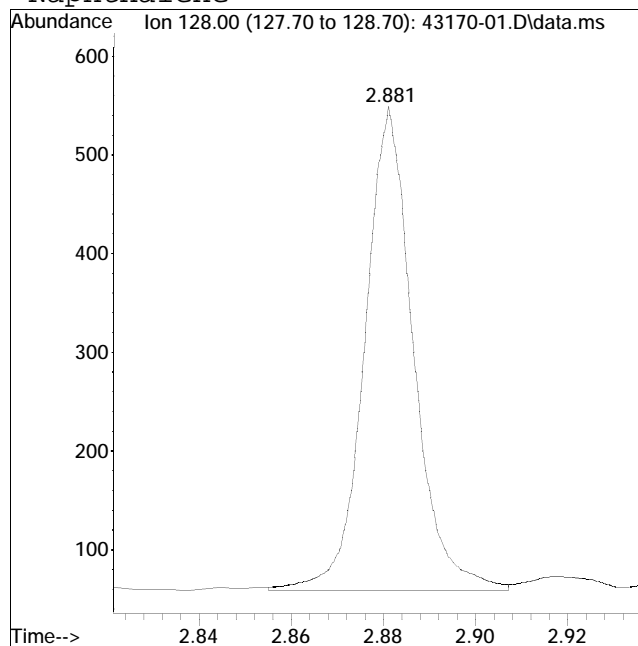
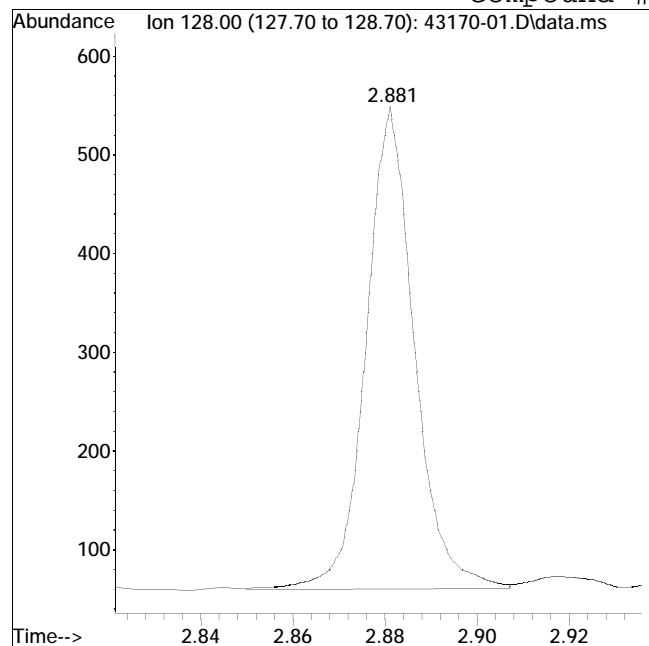
Manual Peak Response = 53 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\230801ST\QMethod : simtech230222-sv120.M
Data File : 43170-01.D Operator : SV120:jjw
Date Inj'd : 8/1/2023 12:58 pm Instrument : SV120
Sample : L2343170-01,32,,ah Quant Date : 8/1/2023 1:12 pm

Compound #9: Naphthalene



Original Peak Response = 355

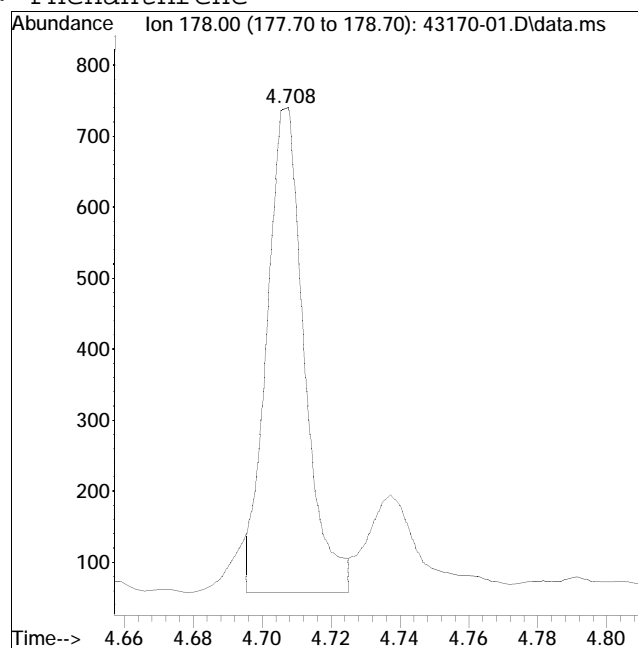
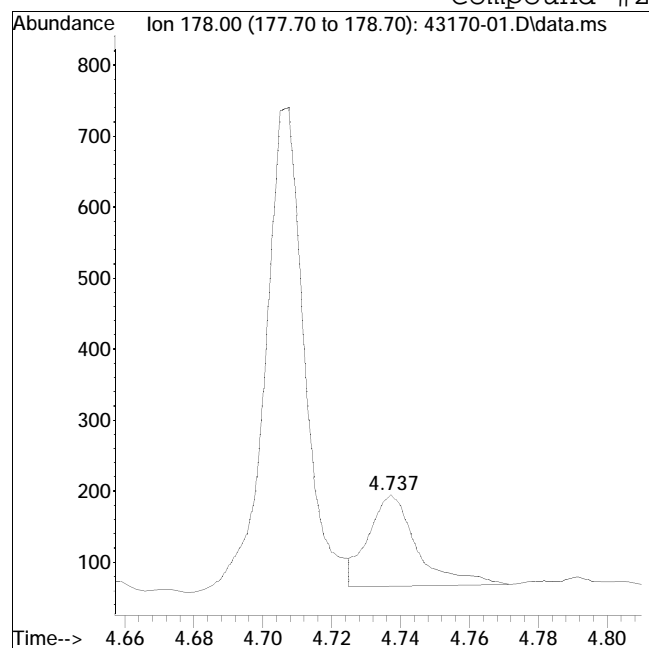
Manual Peak Response = 360 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230801ST\QMethod : simtech230222-sv120.M
Data File : 43170-01.D Operator : SV120:jjw
Date Inj'd : 8/1/2023 12:58 pm Instrument : SV120
Sample : L2343170-01,32,,ah Quant Date : 8/1/2023 1:12 pm

Compound #24: Phenanthrene



Original Peak Response = 126

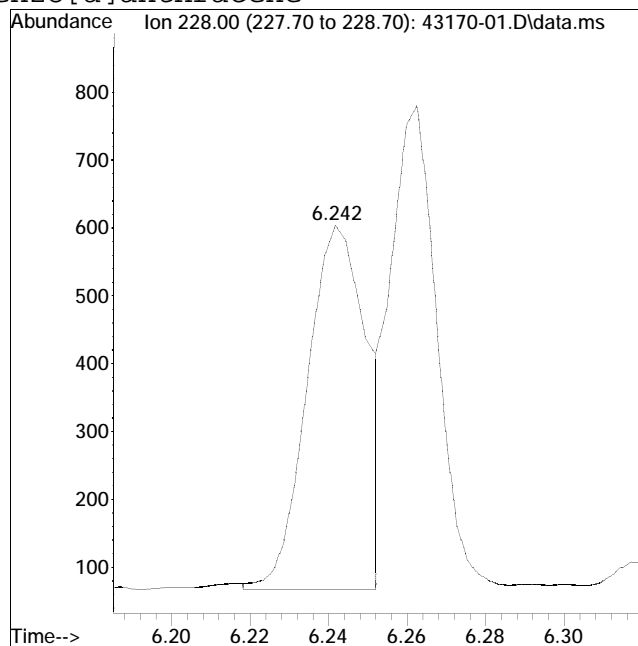
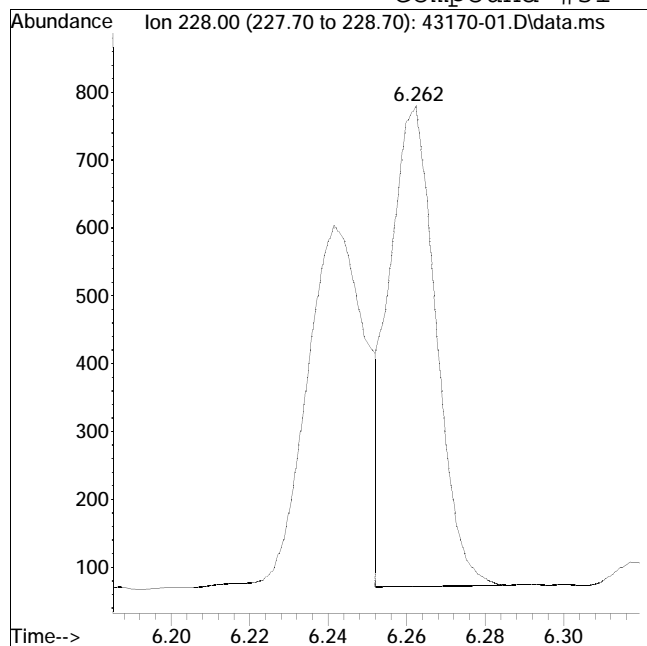
Manual Peak Response = 512 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230801ST\QMethod : simtech230222-sv120.M
Data File : 43170-01.D Operator : SV120:jjw
Date Inj'd : 8/1/2023 12:58 pm Instrument : SV120
Sample : L2343170-01,32,,ah Quant Date : 8/1/2023 1:12 pm

Compound #31: Benzo[a]anthracene



Original Peak Response = 571

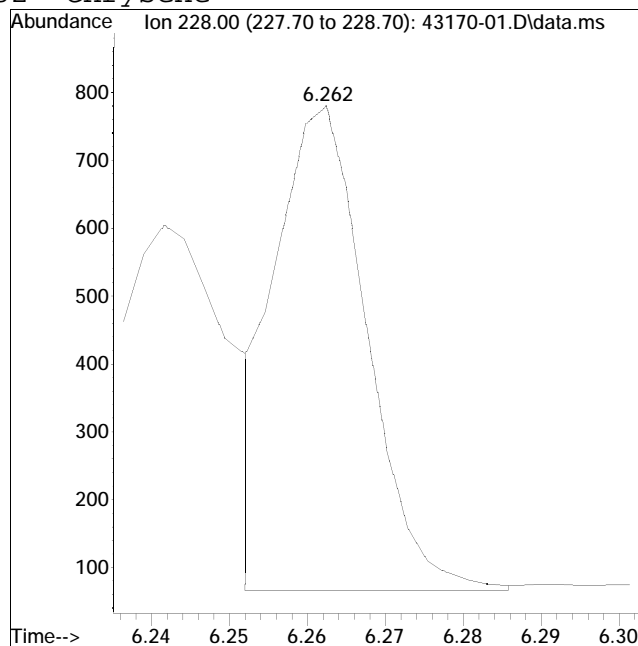
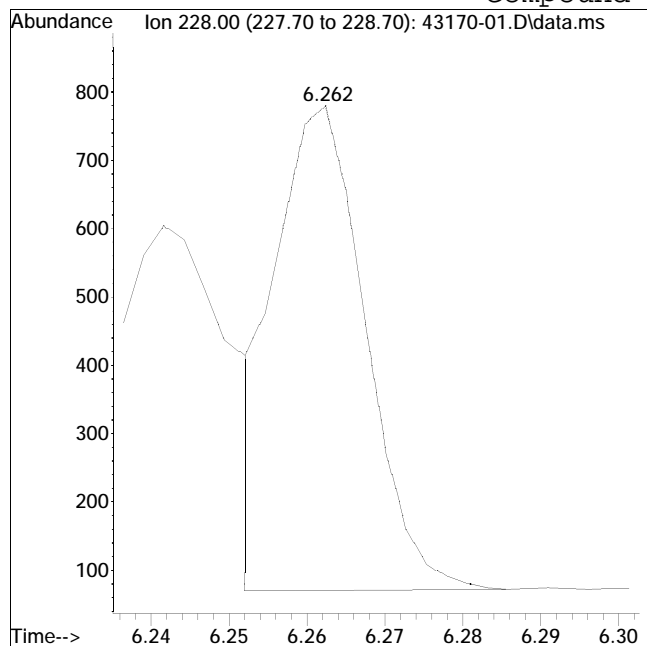
Manual Peak Response = 569 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230801ST\QMethod : simtech230222-sv120.M
Data File : 43170-01.D Operator : SV120:jjw
Date Inj'd : 8/1/2023 12:58 pm Instrument : SV120
Sample : L2343170-01,32,,ah Quant Date : 8/1/2023 1:12 pm

Compound #32: Chrysene



Original Peak Response = 571

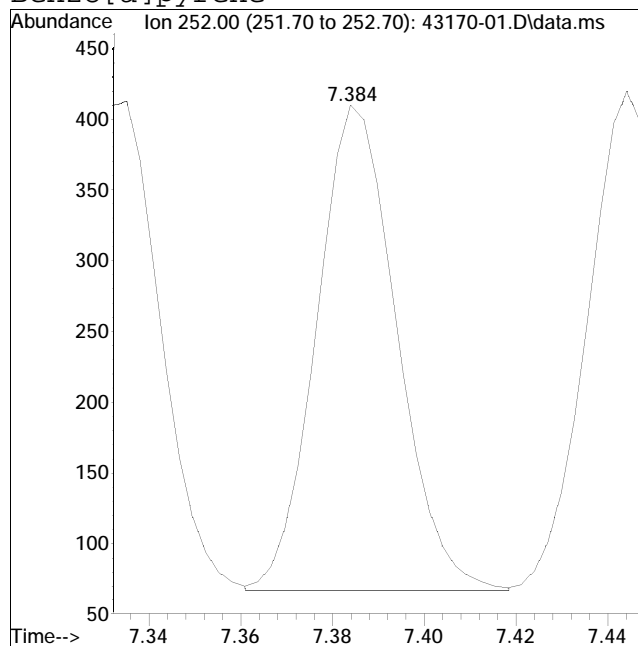
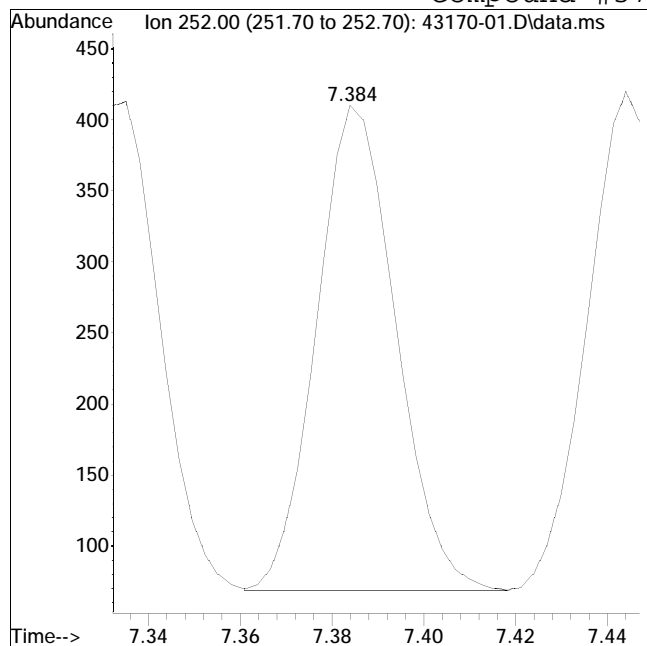
Manual Peak Response = 581 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230801ST\QMethod : simtech230222-sv120.M
Data File : 43170-01.D Operator : SV120:jjw
Date Inj'd : 8/1/2023 12:58 pm Instrument : SV120
Sample : L2343170-01,32,,ah Quant Date : 8/1/2023 1:12 pm

Compound #37: Benzo[a]pyrene



Original Peak Response = 408

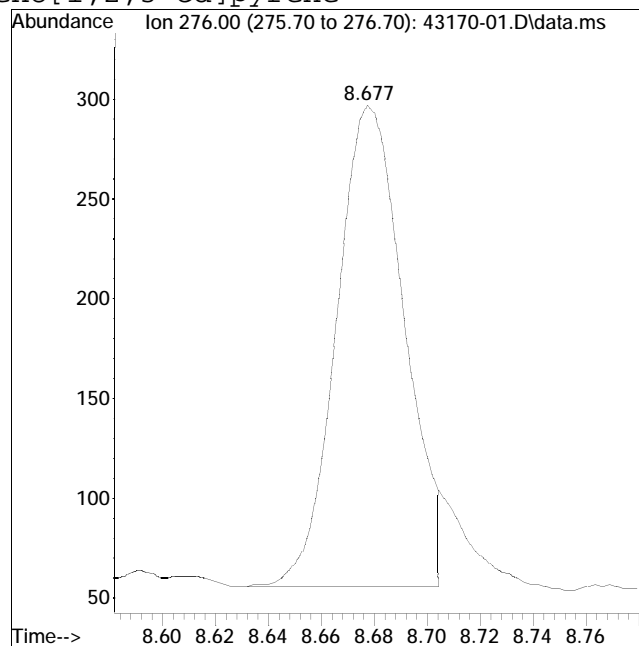
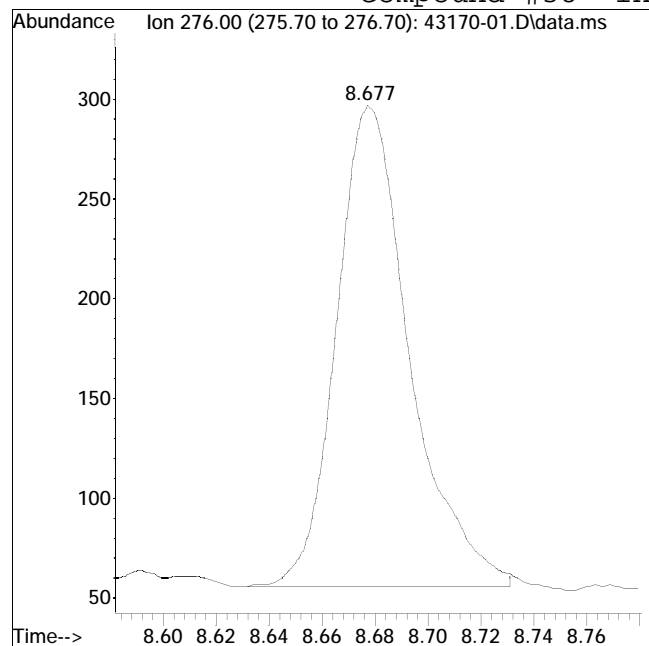
Manual Peak Response = 415 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230801ST\QMethod : simtech230222-sv120.M
Data File : 43170-01.D Operator : SV120:jjw
Date Inj'd : 8/1/2023 12:58 pm Instrument : SV120
Sample : L2343170-01,32,,ah Quant Date : 8/1/2023 1:12 pm

Compound #38: Indeno[1,2,3-cd]pyrene



Original Peak Response = 463

Manual Peak Response = 431 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : 43170-02.D
 Acq On : 01 Aug 2023 01:48 pm
 Operator : SV120:jjw
 Sample : L2343170-02,32,,ah
 Misc : WG1810218,WG1809555,ical19770
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 08 11:52:01 2023
 Quant Method : I:\8270sim\sv120\230801ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 01 07:47:49 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230801ST\ccv0801.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.201	152	17116	4.000	ug/ml	0.00
Standard Area 1 = 17544			Recovery =	97.56%		
8) Naphthalene-d8	2.871	136	59496	4.000	ug/ml	0.00
Standard Area 1 = 61932			Recovery =	96.07%		
16) Acenaphthene-d10	3.852	164	33881	4.000	ug/ml	0.00
Standard Area 1 = 35379			Recovery =	95.77%		
20) Phenanthrene-d10	4.692	188	81188	4.000	ug/ml	0.00
Standard Area 1 = 79892			Recovery =	101.62%		
30) Chrysene-d12	6.243	240	90418	4.000	ug/ml	-0.02
Standard Area 1 = 85984			Recovery =	105.16%		
34) Perylene-d12	7.443	264	109136	4.000	ug/ml	-0.02
Standard Area 1 = 91192			Recovery =	119.68%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.603	112	103711	23.378	ug/ml	0.01
Spiked Amount 50.000	Range 15 - 110		Recovery =	46.76%		
3) Phenol-d6	2.017	99	86884	15.853	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	31.71%		
7) Nitrobenzene-d5	2.485	82	90237	20.870	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	83.48%		
13) 2-Fluorobiphenyl	3.470	172	204901	17.425	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	69.70%		
19) 2,4,6-Tribromophenol	4.301	330	68040	38.145	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	76.29%		
26) O-Terphenyl-MS	0.000	230	0d	0.000	ug/ml	
Spiked Amount 20.000	Range 40 - 140		Recovery =	0.00%#		
29) 4-Terphenyl-d14	5.609	244	305770	18.358	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	73.43%		
Target Compounds						
4) Hexachloroethane	0.000		0	N.D.	d	Qvalue
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
15) Acenaphthylene	0.000		0	N.D.	d	
17) Acenaphthene	0.000		0	N.D.	d	
18) Fluorene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : 43170-02.D
 Acq On : 01 Aug 2023 01:48 pm
 Operator : SV120:jjw
 Sample : L2343170-02,32,,ah
 Misc : WG1810218,WG1809555,ical19770
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 08 11:52:01 2023
 Quant Method : I:\8270sim\sv120\230801ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 01 07:47:49 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230801ST\ccv0801.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) Hexachlorobenzene	0.000		0	N.D.	d	
23) Pentachlorophenol	4.594	266	3911	1.926	ug/ml	95
24) Phenanthrene	0.000		0	N.D.	d	
25) Anthracene	0.000		0	N.D.	d	
27) Fluoranthene	5.387	202	271	0.011	ug/ml#	86
28) Pyrene	5.517	202	260M6	0.010	ug/ml	
31) Benzo[a]anthracene	0.000		0	N.D.	d	
32) Chrysene	0.000		0	N.D.	d	
35) Benzo[b]fluoranthene	0.000		0	N.D.	d	
36) Benzo[k]fluoranthene	0.000		0	N.D.	d	
37) Benzo[a]pyrene	0.000		0	N.D.	d	
38) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
39) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
40) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

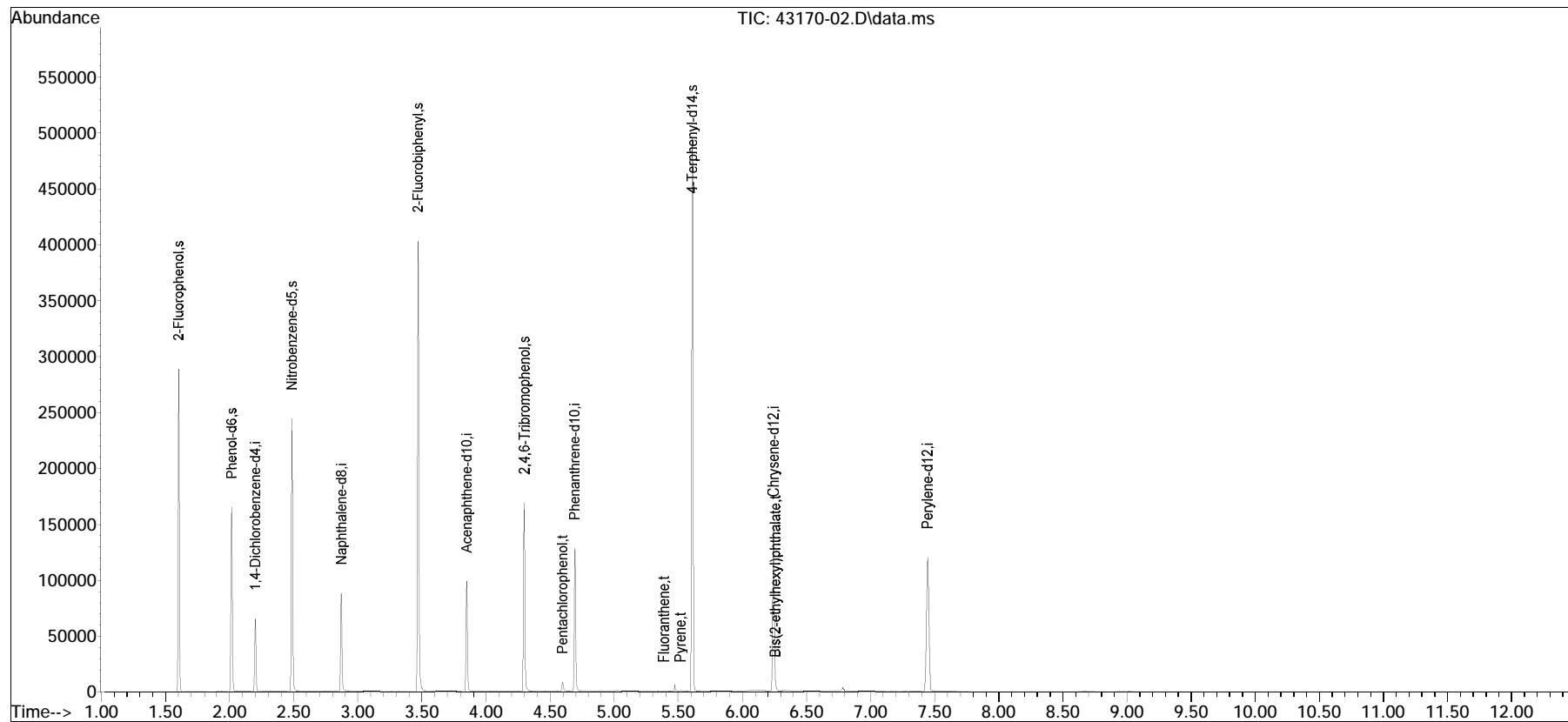
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

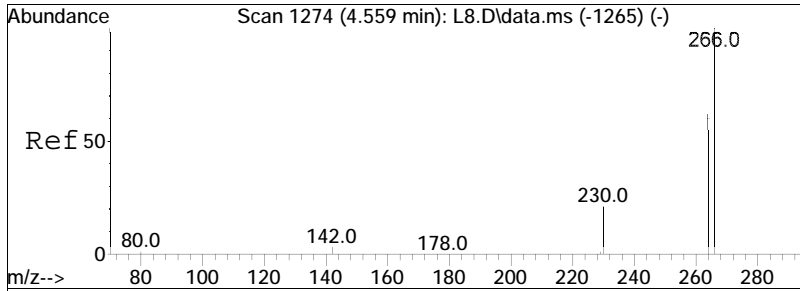
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : 43170-02.D
 Acq On : 01 Aug 2023 01:48 pm
 Operator : SV120:jjw
 Sample : L2343170-02,32,,ah
 Misc : WG1810218,WG1809555,ical19770
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 08 11:52:01 2023
 Quant Method : I:\8270sim\sv120\230801ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 01 07:47:49 2023
 Response via : Initial Calibration

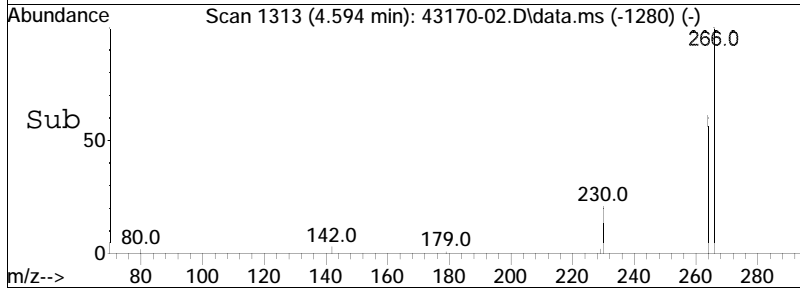
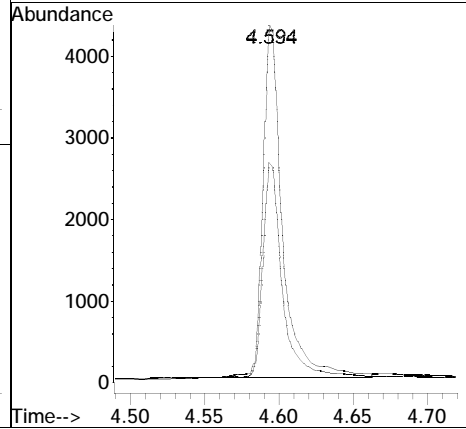
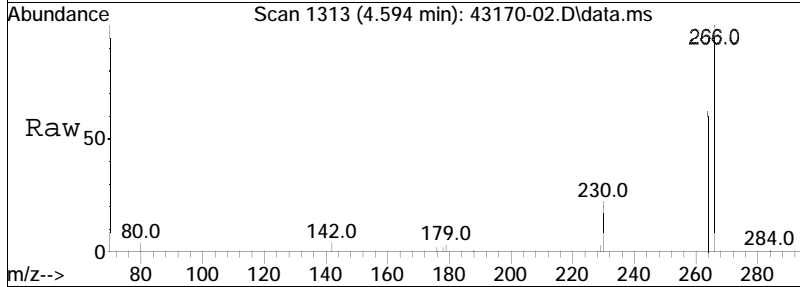
Sub List : DEFAULT - All compounds listedccv0801.D•

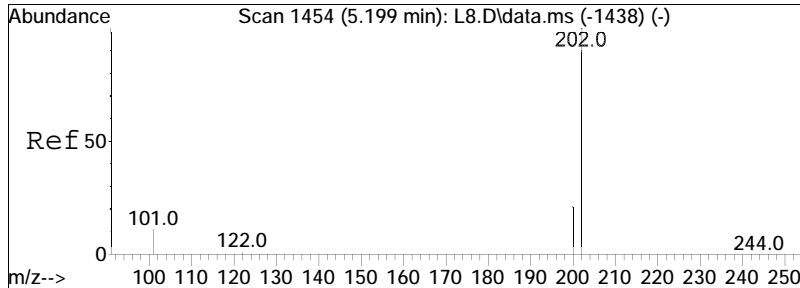




#23
 Pentachlorophenol
 Concen: 1.93 ug/ml
 RT: 4.594 min Scan# 1313
 Delta R.T. 0.002 min
 Lab File: 43170-02.D
 Acq: 01 Aug 2023 01:48 pm

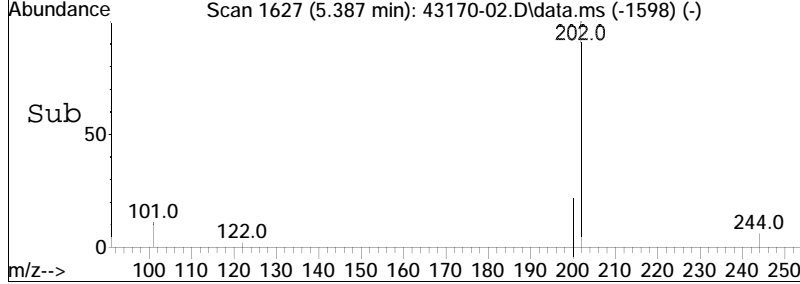
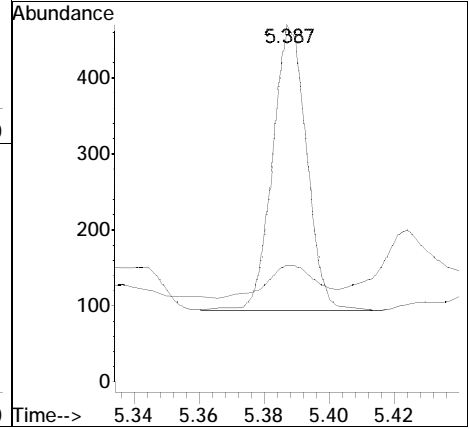
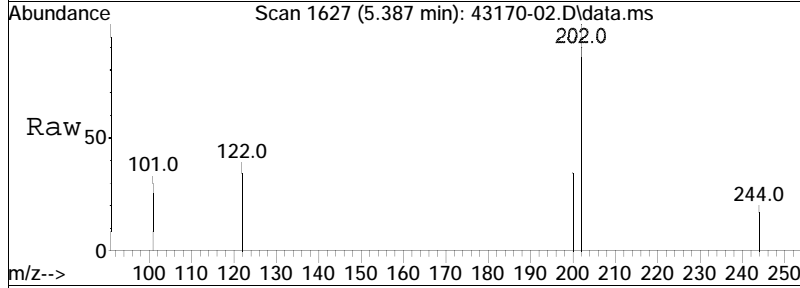
Tgt Ion	Ratio	Lower	Upper
266	100		
264	59.8	50.6	76.0

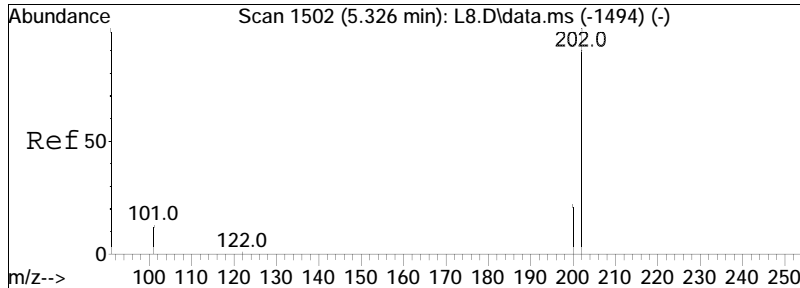




#27
 Fluoranthene
 Concen: 0.01 ug/ml
 RT: 5.387 min Scan# 1627
 Delta R.T. -0.003 min
 Lab File: 43170-02.D
 Acq: 01 Aug 2023 01:48 pm

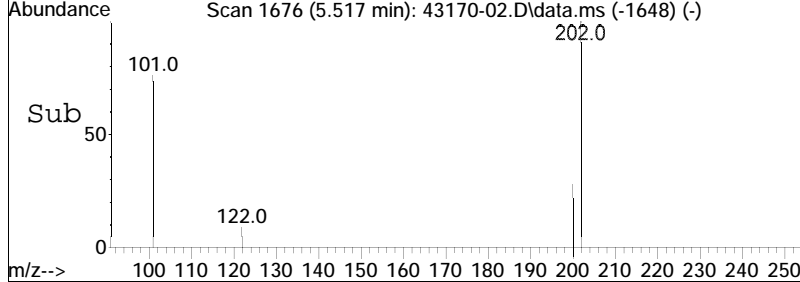
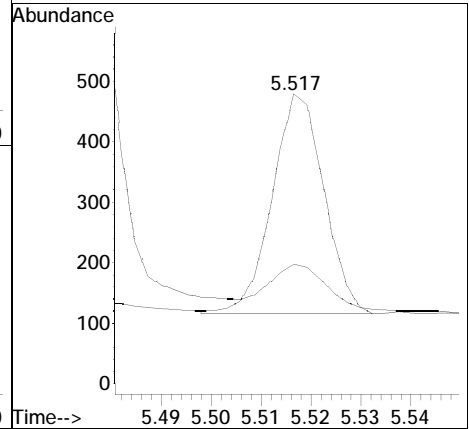
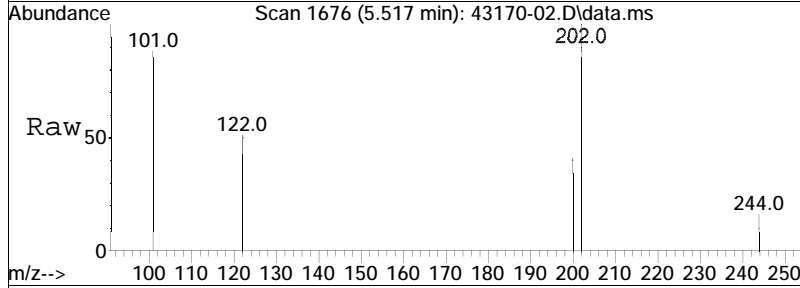
Tgt Ion	Ratio	Lower	Upper
202	100		
101	17.0	9.3	13.9#





#28
 Pyrene
 Concen: 0.01 ug/ml M6
 RT: 5.517 min Scan# 1676
 Delta R.T. -0.006 min
 Lab File: 43170-02.D
 Acq: 01 Aug 2023 01:48 pm

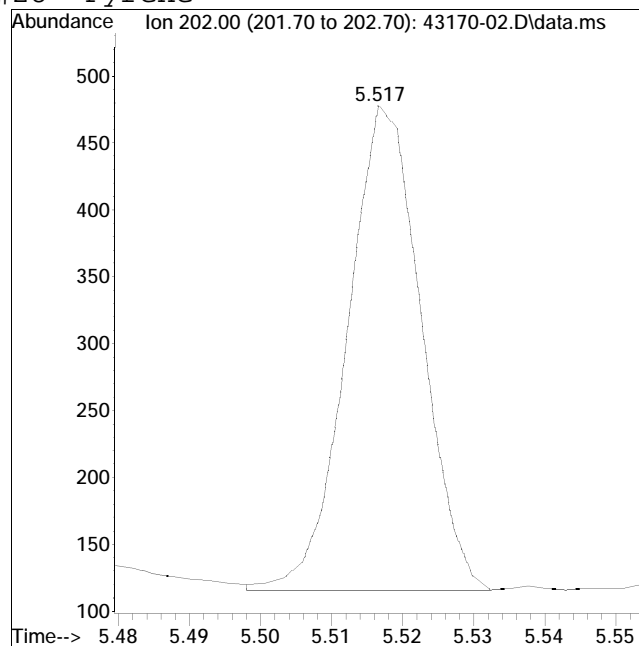
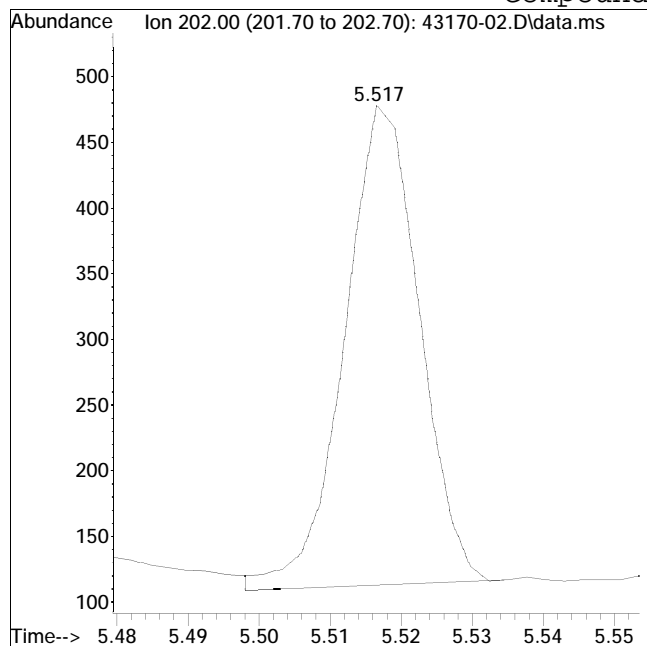
Tgt Ion	Ratio	Lower	Upper
202	100		
200	30.0	17.4	26.2#



Manual Integration Report

Data Path : I:\8270SIM\sv120\230801ST\QMethod : simtech230222-sv120.M
Data File : 43170-02.D Operator : SV120:jjw
Date Inj'd : 8/1/2023 1:48 pm Instrument : SV120
Sample : L2343170-02,32,,ah Quant Date : 8/1/2023 2:01 pm

Compound #28: Pyrene



Original Peak Response = 267

Manual Peak Response = 260 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : 43170-03.D
 Acq On : 01 Aug 2023 02:05 pm
 Operator : SV120:jjw
 Sample : L2343170-03,32,,ah
 Misc : WG1810218,WG1809555,ical19770
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 08 11:53:28 2023
 Quant Method : I:\8270sim\sv120\230801ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 01 07:47:49 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230801ST\ccv0801.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.201	152	19750	4.000	ug/ml	0.00
Standard Area 1 = 17544			Recovery =	112.57%		
8) Naphthalene-d8	2.869	136	69453	4.000	ug/ml	0.00
Standard Area 1 = 61932			Recovery =	112.14%		
16) Acenaphthene-d10	3.850	164	38373	4.000	ug/ml	0.00
Standard Area 1 = 35379			Recovery =	108.46%		
20) Phenanthrene-d10	4.693	188	83660	4.000	ug/ml	0.00
Standard Area 1 = 79892			Recovery =	104.72%		
30) Chrysene-d12	6.244	240	87988	4.000	ug/ml	-0.02
Standard Area 1 = 85984			Recovery =	102.33%		
34) Perylene-d12	7.445	264	108757	4.000	ug/ml	-0.02
Standard Area 1 = 91192			Recovery =	119.26%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.603	112	120905	23.619	ug/ml	0.01
Spiked Amount 50.000	Range 15 - 110		Recovery =	47.24%		
3) Phenol-d6	2.017	99	100525	15.896	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	31.79%		
7) Nitrobenzene-d5	2.486	82	106914	21.430	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	85.72%		
13) 2-Fluorobiphenyl	3.471	172	236164	17.204	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	68.82%		
19) 2,4,6-Tribromophenol	4.302	330	71083	35.455	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	70.91%		
26) O-Terphenyl-MS	0.000	230	0d	0.000	ug/ml	
Spiked Amount 20.000	Range 40 - 140		Recovery =	0.00%#		
29) 4-Terphenyl-d14	5.610	244	298204	17.374	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	69.50%		
Target Compounds						
4) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.882	128	684	0.038	ug/ml#	96
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
15) Acenaphthylene	0.000		0	N.D.	d	
17) Acenaphthene	0.000		0	N.D.	d	
18) Fluorene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : 43170-03.D
 Acq On : 01 Aug 2023 02:05 pm
 Operator : SV120:jjw
 Sample : L2343170-03,32,,ah
 Misc : WG1810218,WG1809555,ical19770
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 08 11:53:28 2023
 Quant Method : I:\8270sim\sv120\230801ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 01 07:47:49 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230801ST\ccv0801.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) Hexachlorobenzene	0.000		0	N.D.	d	
23) Pentachlorophenol	4.597	266	407M1	0.271	ug/ml	
24) Phenanthrene	4.706	178	265M6	0.012	ug/ml	
25) Anthracene	0.000		0	N.D.	d	
27) Fluoranthene	5.388	202	278	0.011	ug/ml	100
28) Pyrene	5.517	202	334	0.013	ug/ml	99
31) Benzo[a]anthracene	0.000		0	N.D.	d	
32) Chrysene	0.000		0	N.D.	d	
35) Benzo[b]fluoranthene	0.000		0	N.D.	d	
36) Benzo[k]fluoranthene	0.000		0	N.D.	d	
37) Benzo[a]pyrene	0.000		0	N.D.	d	
38) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
39) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
40) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

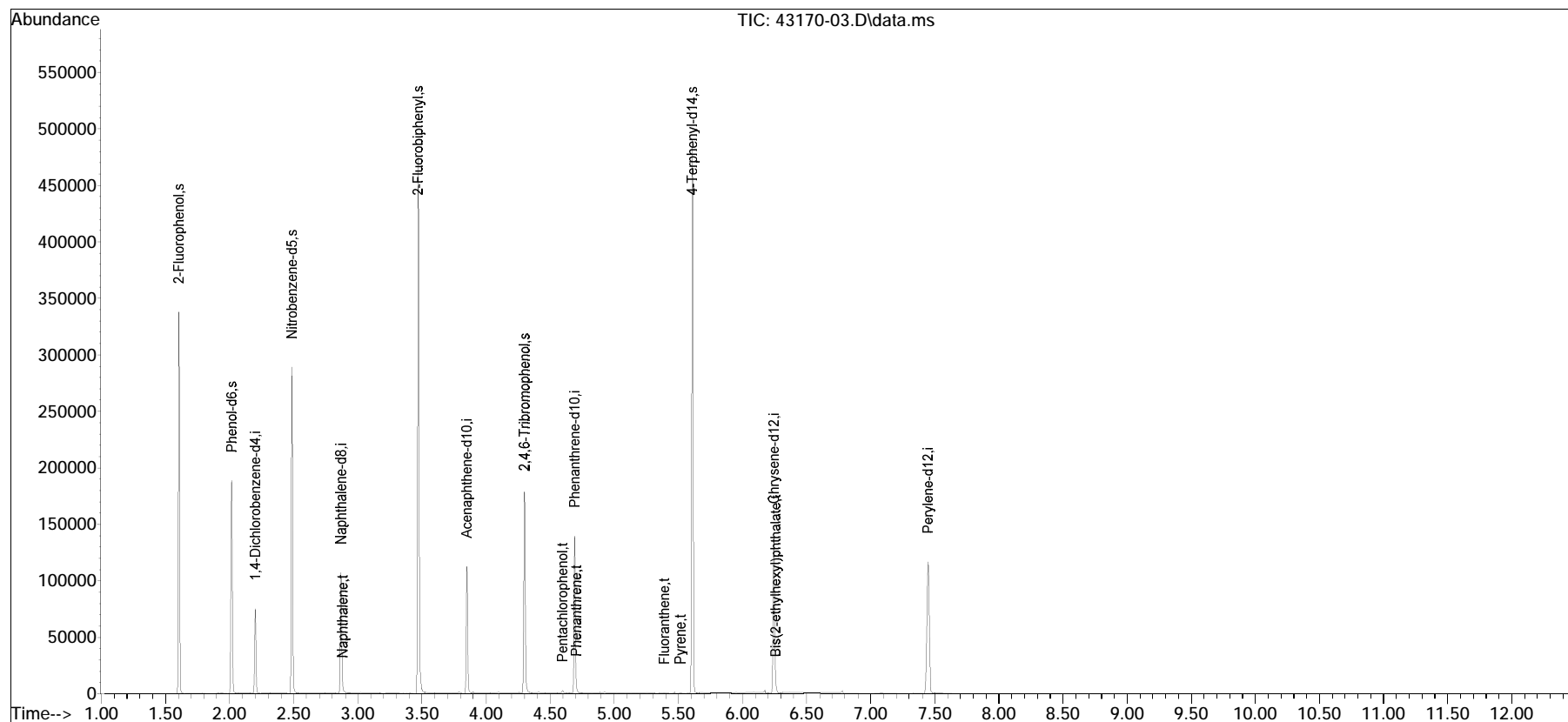
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

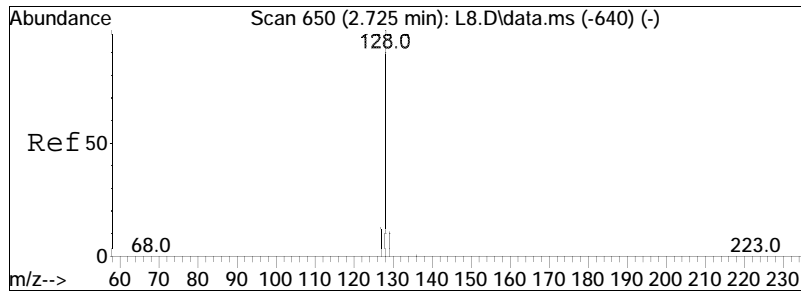
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : 43170-03.D
 Acq On : 01 Aug 2023 02:05 pm
 Operator : SV120:jjw
 Sample : L2343170-03,32,,ah
 Misc : WG1810218,WG1809555,ical19770
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 08 11:53:28 2023
 Quant Method : I:\8270sim\sv120\230801ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 01 07:47:49 2023
 Response via : Initial Calibration

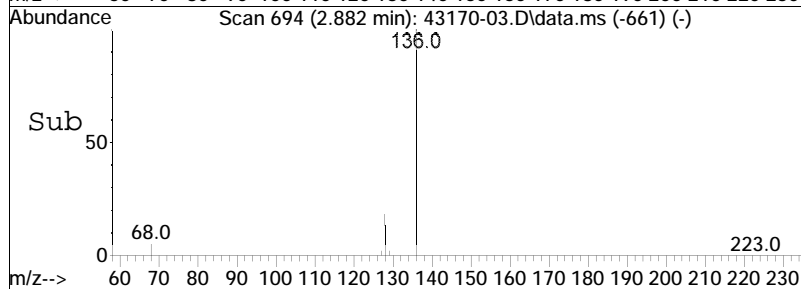
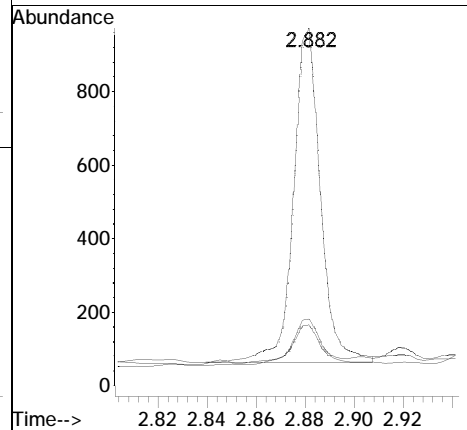
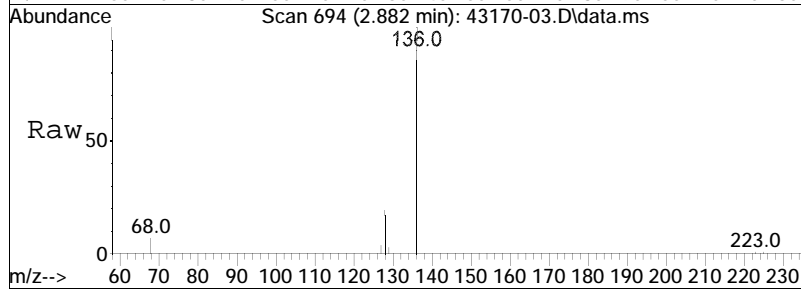
Sub List : DEFAULT - All compounds listedccv0801.D•

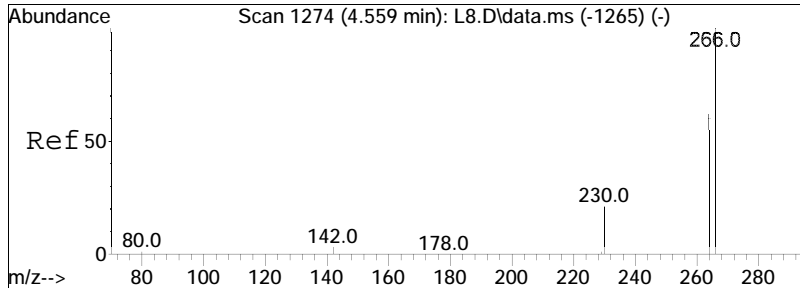




#9
 Naphthalene
 Concen: 0.04 ug/ml
 RT: 2.882 min Scan# 694
 Delta R.T. 0.008 min
 Lab File: 43170-03.D
 Acq: 01 Aug 2023 02:05 pm

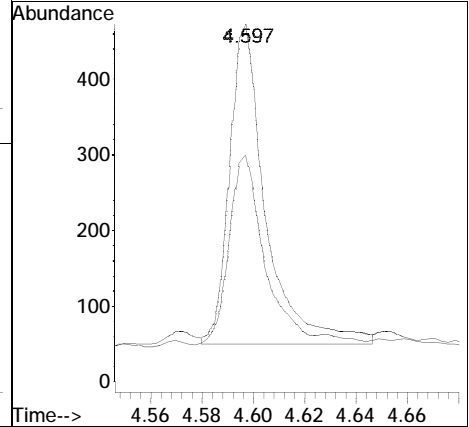
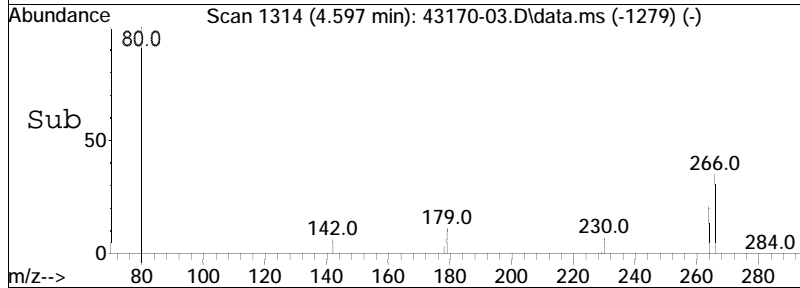
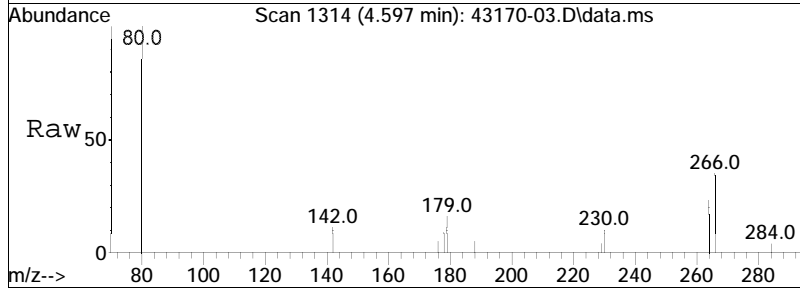
Tgt Ion	Ratio	Lower	Upper
128	100		
129	13.5	8.7	13.1#
127	14.3	10.8	16.2

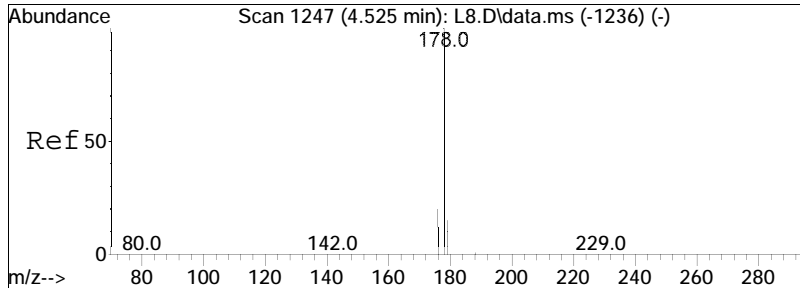




#23
 Pentachlorophenol
 Concen: 0.27 ug/ml M1
 RT: 4.597 min Scan# 1314
 Delta R.T. 0.005 min
 Lab File: 43170-03.D
 Acq: 01 Aug 2023 02:05 pm

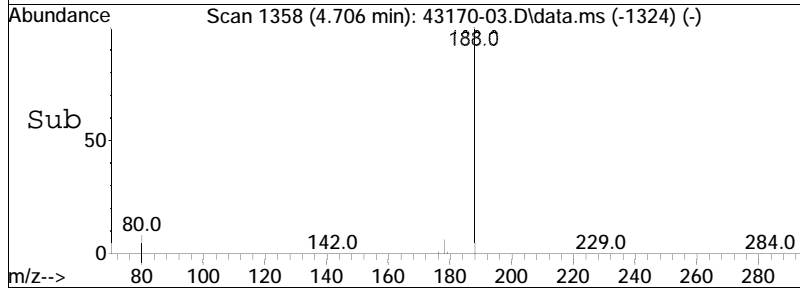
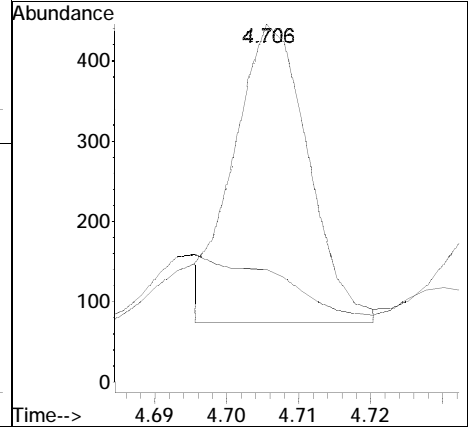
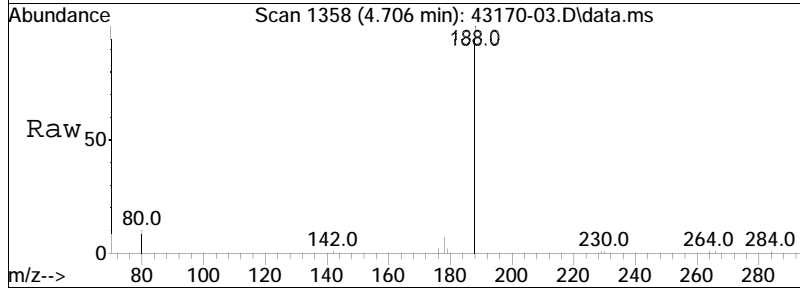
Tgt Ion	Ratio	Lower	Upper
266	100		
264	58.0	50.6	76.0

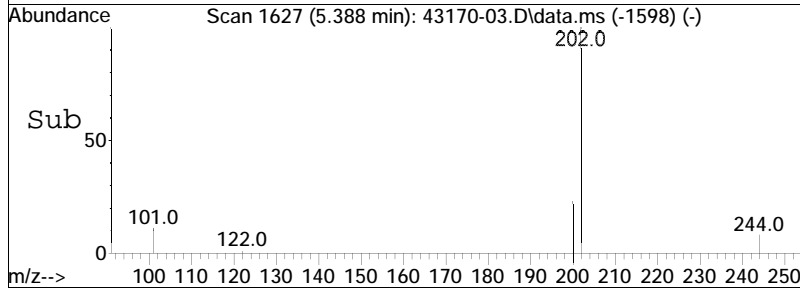
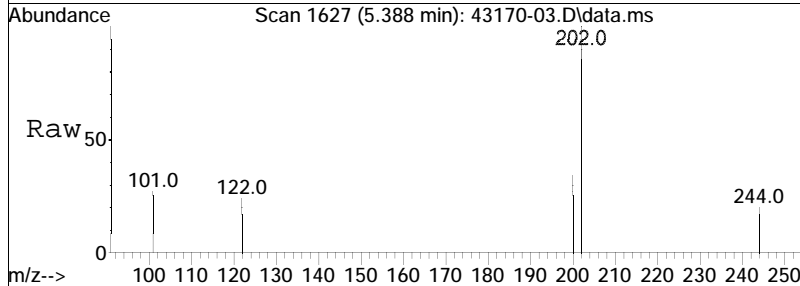
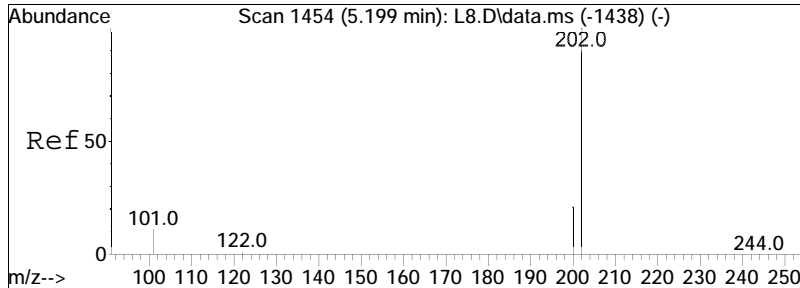




#24
 Phenanthrene
 Concen: 0.01 ug/ml M6
 RT: 4.706 min Scan# 1358
 Delta R.T. 0.003 min
 Lab File: 43170-03.D
 Acq: 01 Aug 2023 02:05 pm

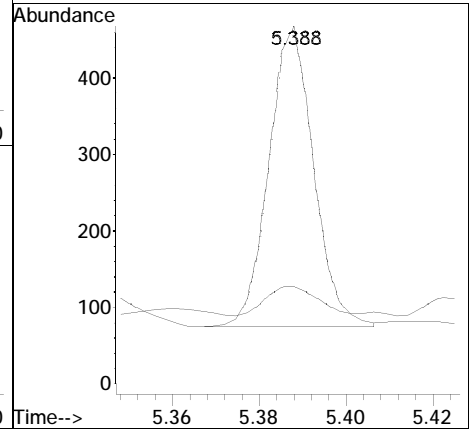
Tgt Ion	Ratio	Lower	Upper
178	100		
179	16.2	12.3	18.5

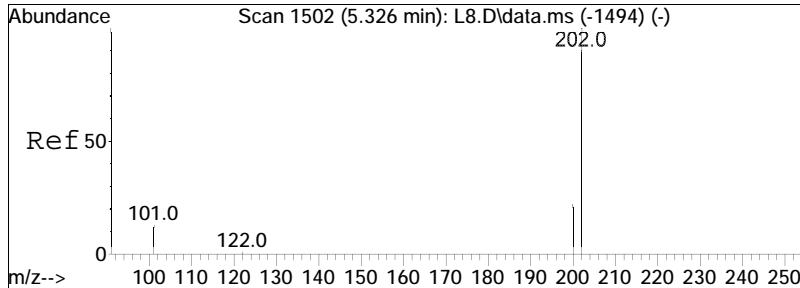




#27
 Fluoranthene
 Concen: 0.01 ug/ml
 RT: 5.388 min Scan# 1627
 Delta R.T. -0.002 min
 Lab File: 43170-03.D
 Acq: 01 Aug 2023 02:05 pm

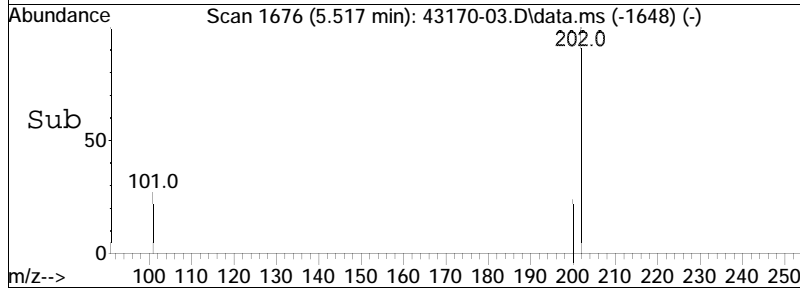
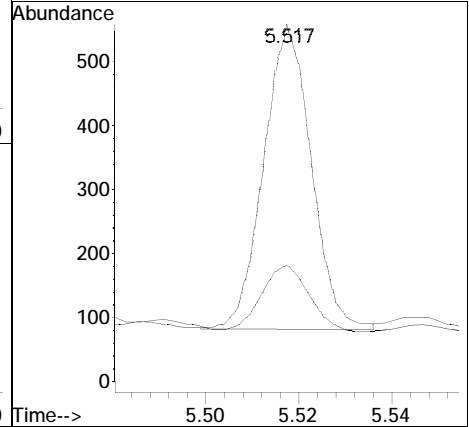
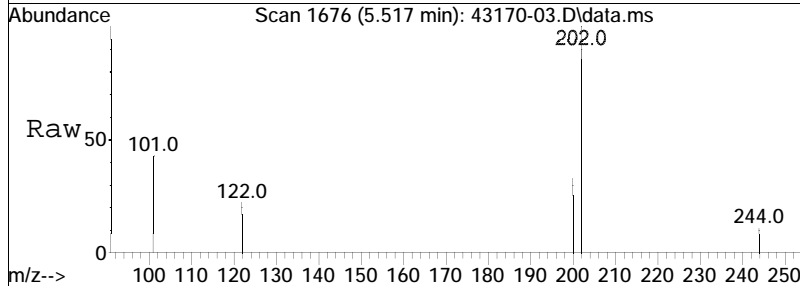
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.5	9.3	13.9





#28
 Pyrene
 Concen: 0.01 ug/ml
 RT: 5.517 min Scan# 1676
 Delta R.T. -0.005 min
 Lab File: 43170-03.D
 Acq: 01 Aug 2023 02:05 pm

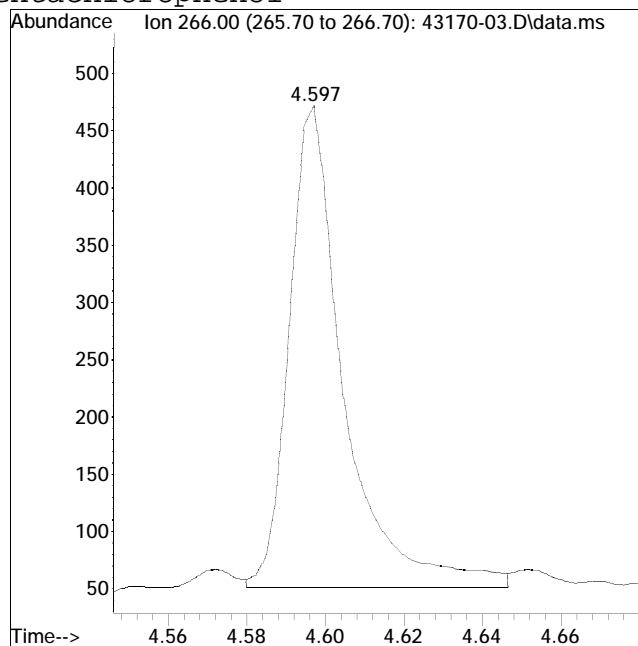
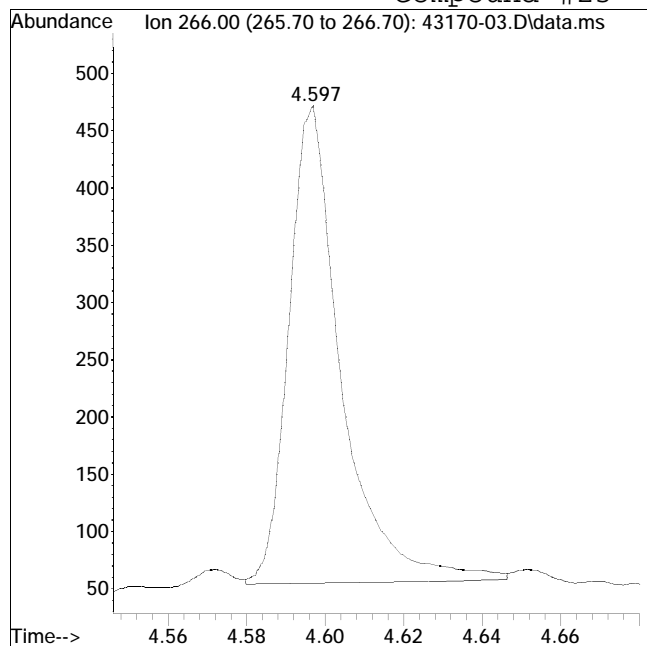
Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.2	17.4	26.2



Manual Integration Report

Data Path : I:\8270SIM\sv120\230801ST\QMethod : simtech230222-sv120.M
Data File : 43170-03.D Operator : SV120:jjw
Date Inj'd : 8/1/2023 2:05 pm Instrument : SV120
Sample : L2343170-03,32,,ah Quant Date : 8/1/2023 2:19 pm

Compound #23: Pentachlorophenol



Original Peak Response = 388

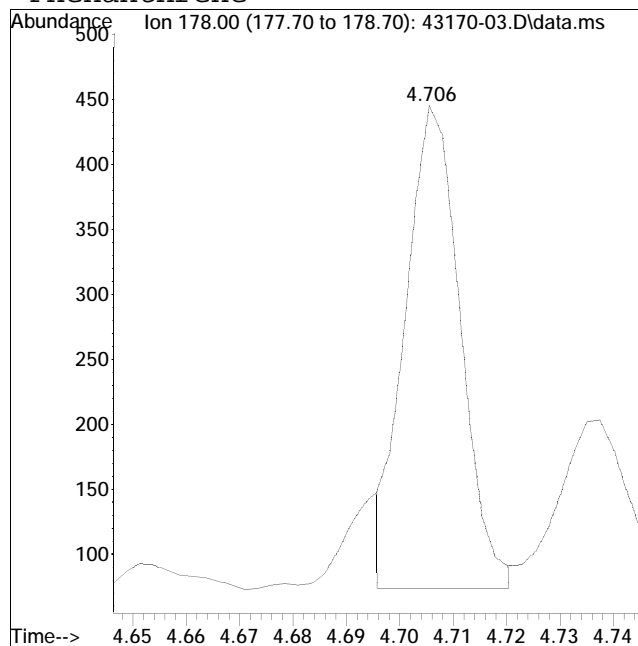
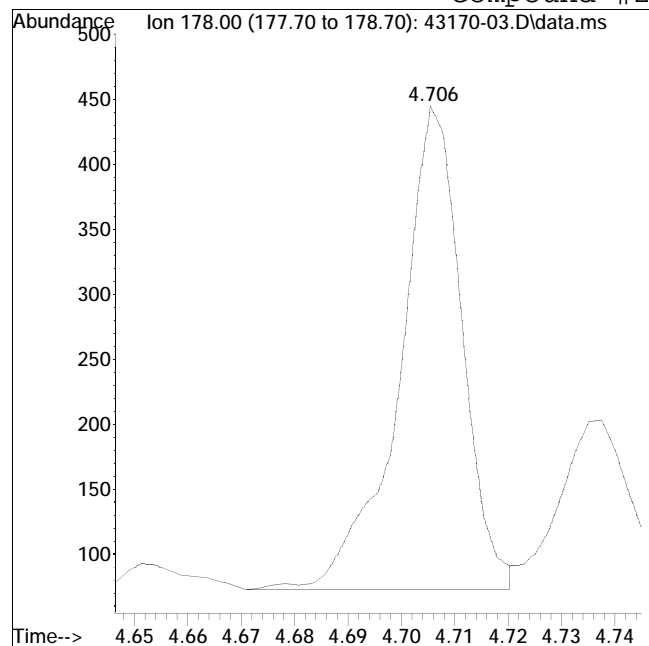
Manual Peak Response = 407 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230801ST\QMethod : simtech230222-sv120.M
Data File : 43170-03.D Operator : SV120:jjw
Date Inj'd : 8/1/2023 2:05 pm Instrument : SV120
Sample : L2343170-03,32,,ah Quant Date : 8/1/2023 2:19 pm

Compound #24: Phenanthrene



Original Peak Response = 303

Manual Peak Response = 265 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : SV120
Calibration dates : 02/22/23 11:10 02/22/23 13:39

Lab Number : L2343170
Project Number : 2230119
Ical Ref : ICAL19770

Calibration Files

0.02=IL1.D 0.05=IL2.D 0.1 =IL3.D 0.2 =IL4.D 0.5 =IL5.D 1.0 =IL6.D 2.0 =IL7.D 5.0 =IL8.D
 10.0=IL9.D 20.0=IL10.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	2.0	5.0	10.0	20.0	Avg	%RSD
1) i 1,4-Dichlorobenzene-d4	-----ISTD-----											
2) s 2-Fluorophenol	0.941	1.016	1.029	1.034	1.080	1.058	1.079	1.057		1.037	4.35	
3) s Phenol-d6	1.160	1.265	1.265	1.269	1.325	1.317	1.335	1.310		1.281	4.40	
4) t Hexachloroethane	0.484	0.477	0.482	0.485	0.481	0.486	0.489	0.480	0.481	0.483	0.71	
5) t bis(2-Chloroethyl)ether	1.050	1.078	1.106	1.103	1.101	1.090	1.093	1.078	1.076	1.086	1.63	
6) t n-Nitrosodi-n-propylamine	0.676	0.686	0.697	0.717	0.726	0.735	0.762	0.777	0.773	0.728	5.14	
7) s Nitrobenzene-d5	0.866	0.942	0.951	0.976	1.042	1.095	1.100	1.112		1.010	8.91	
8) i Naphthalene-d8	-----ISTD-----											
9) t Naphthalene	1.040	1.031	1.058	1.039	1.035	1.031	1.031	1.007	0.997	1.030	1.77	
10) t Hexachlorobutadiene	0.194	0.192	0.198	0.195	0.194	0.195	0.194	0.188	0.186	0.193	1.91	
11) t 2-Methylnaphthalene	0.635	0.633	0.652	0.646	0.647	0.652	0.657	0.651	0.647	0.647	1.20	
12) t 1-Methylnaphthalene	0.620	0.619	0.634	0.636	0.638	0.641	0.644	0.639	0.632	0.634	1.41	
13) s 2-Fluorobiphenyl	0.793	0.822	0.798	0.796	0.800	0.785	0.774	0.756		0.791	2.45	
14) t 2-Chloronaphthalene	0.670	0.668	0.686	0.684	0.681	0.693	0.692	0.706	0.676	0.684	1.76	
15) t Acenaphthylene	0.907	0.900	0.923	0.956	0.967	1.028	1.046	1.086	1.047	0.984	7.00	
16) i Acenaphthene-d10	-----ISTD-----											
17) t Acenaphthene	1.378	1.363	1.402	1.373	1.375	1.367	1.369	1.332	1.313	1.364	1.92	
18) t Fluorene	1.425	1.390	1.416	1.438	1.449	1.472	1.463	1.452	1.416	1.436	1.82	
19) s 2,4,6-Tribromophenol	0.133	0.147	0.150	0.165	0.182	0.209	0.209	0.222		*Q	0.9987	
20) i Phenanthrene-d10	-----ISTD-----											
21) t 4,6-Dinitro-o-cresol			0.031	0.036	0.040	0.045	0.052	0.058	0.062	*Q	0.9991	
22) t Hexachlorobenzene	0.240	0.235	0.236	0.252	0.245	0.242	0.239	0.240	0.231	0.230	2.77	
23) t Pentachlorophenol			0.042	0.053	0.079	0.086	0.098	0.105	0.110	0.112	*Q	0.9993
24) t Phenanthrene	1.148	1.120	1.139	1.116	1.095	1.085	1.089	1.056	1.046	1.099	3.18	
25) t Anthracene	0.985	0.979	1.016	1.022	1.028	1.052	1.078	1.066	1.063	1.032	3.42	
26) s O-Terphenyl-MS	0.542	0.559	0.553	0.557	0.563	0.566	0.555	0.531		0.553	2.07	
27) t Fluoranthene	1.139	1.120	1.159	1.161	1.162	1.222	1.230	1.247	1.194	1.182	3.71	
28) t Pyrene	1.157	1.160	1.197	1.199	1.217	1.277	1.293	1.311	1.234	1.227	4.57	
29) s 4-Terphenyl-d14	0.787	0.823	0.812	0.835	0.841	0.847	0.821	0.799		0.821	2.52	
30) i Chrysene-d12	-----ISTD-----											
31) t Benzo[a]anthracene	1.396	1.290	1.277	1.256	1.249	1.283	1.310	1.330	1.330	1.302	3.48	
32) t Chrysene	1.404	1.389	1.416	1.406	1.380	1.346	1.378	1.319	1.275	1.368	3.39	
33) t bis(2-Ethylhexyl)phthalate			0.429	0.445	0.470	0.482	0.581	0.624	0.730	0.734	*Q	0.9973
34) i Perylene-d12	-----ISTD-----											
35) t Benzo[b]fluoranthene	1.145	1.132	1.193	1.156	1.214	1.250	1.314	1.262	1.268	1.215	5.20	
36) t Benzo[k]fluoranthene	1.068	1.068	1.130	1.191	1.185	1.240	1.253	1.329	1.226	1.188	7.32	



Initial Calibration Summary

Form 6

Semivolatiles

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : SV120
Calibration dates : 02/22/23 11:10 02/22/23 13:39

Lab Number : L2343170
Project Number : 2230119
Ical Ref : ICAL19770

Calibration Files

0.02=IL1.D 0.05=IL2.D 0.1 =IL3.D 0.2 =IL4.D 0.5 =IL5.D 1.0 =IL6.D 2.0 =IL7.D 5.0 =IL8.D
 10.0=IL9.D 20.0=IL10.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	2.0	5.0	10.0	20.0	Avg	%RSD
37) t Benzo[a]pyrene	0.856	0.877	0.929	0.943	0.980	1.014	1.089	1.106	1.111	0.990	9.79	
38) t Indeno[1,2,3-cd]pyrene	0.802	0.844	0.904	0.867	0.905	0.886	0.981	0.981	1.082	0.917	9.26	
39) t Dibenzo[a,h]anthracene	0.858	0.918	1.017	0.996	1.062	1.076	1.173	1.146	1.228	1.053	11.38	
40) t Benzo[g,h,i]perylene	1.016	1.072	1.179	1.148	1.196	1.130	1.244	1.191	1.295	1.163	7.28	



Response Factor Report SV120

Method Path : I:\8270SIM\sv120\230222STical\
 Method File : simtech230222-sv120.M
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Mar 01 12:04:08 2023
 Response Via : Initial Calibration

Calibration Files

0.02=IL1.D 0.05=IL2.D 0.1 =IL3.D 0.2 =IL4.D 0.5 =IL5.D 1.0 =IL6.D 2.0 =IL7.D 5.0 =IL8.D
 10.0=IL9.D 20.0=IL10.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	2.0	5.0	10.0	20.0	Avg	%RSD
1) i 1,4-Dichlorobenzene-d4	-----ISTD-----											
2) s 2-Fluorophenol	0.941	1.016	1.029	1.034	1.080	1.058	1.079	1.057			1.037	4.35
3) s Phenol-d6	1.160	1.265	1.265	1.269	1.325	1.317	1.335	1.310			1.281	4.40
4) t Hexachloroethane	0.484	0.477	0.482	0.485	0.481	0.486	0.489	0.480	0.481	0.483	0.71	
5) t bis(2-Chloroethyl)ether	1.050	1.078	1.106	1.103	1.101	1.090	1.093	1.078	1.076	1.086	1.63	
6) t n-Nitrosodi-n-propylamine	0.676	0.686	0.697	0.717	0.726	0.735	0.762	0.777	0.773	0.728	5.14	
7) s Nitrobenzene-d5	0.866	0.942	0.951	0.976	1.042	1.095	1.100	1.112			1.010	8.91
8) i Naphthalene-d8	-----ISTD-----											
9) t Naphthalene	1.040	1.031	1.058	1.039	1.035	1.031	1.031	1.007	0.997	1.030	1.77	
10) t Hexachlorobutadiene	0.194	0.192	0.198	0.195	0.194	0.195	0.194	0.188	0.186	0.193	1.91	
11) t 2-Methylnaphthalene	0.635	0.633	0.652	0.646	0.647	0.652	0.657	0.651	0.647	0.647	1.20	
12) t 1-Methylnaphthalene	0.620	0.619	0.634	0.636	0.638	0.641	0.644	0.639	0.632	0.634	1.41	
13) s 2-Fluorobiphenyl	0.793	0.822	0.798	0.796	0.800	0.785	0.774	0.756			0.791	2.45
14) t 2-Chloronaphthalene	0.670	0.668	0.686	0.684	0.681	0.693	0.692	0.706	0.676	0.684	1.76	
15) t Acenaphthylene	0.907	0.900	0.923	0.956	0.967	1.028	1.046	1.086	1.047	0.984	7.00	
16) i Acenaphthene-d10	-----ISTD-----											
17) t Acenaphthene	1.378	1.363	1.402	1.373	1.375	1.367	1.369	1.332	1.313	1.364	1.92	
18) t Fluorene	1.425	1.390	1.416	1.438	1.449	1.472	1.463	1.452	1.416	1.436	1.82	
19) s 2,4,6-Tribromophenol	0.133	0.147	0.150	0.165	0.182	0.209	0.209	0.222			*Q	0.9987
20) i Phenanthrene-d10	-----ISTD-----											
21) t 4,6-Dinitro-o-cresol			0.031	0.036	0.040	0.045	0.052	0.058	0.062		*Q	0.9991
22) t Hexachlorobenzene	0.240	0.235	0.236	0.252	0.245	0.242	0.239	0.240	0.231	0.230	0.239	2.77
23) t Pentachlorophenol			0.042	0.053	0.079	0.086	0.098	0.105	0.110	0.112	*Q	0.9993
24) t Phenanthrene	1.148	1.120	1.139	1.116	1.095	1.085	1.089	1.056	1.046	1.099	3.18	
25) t Anthracene	0.985	0.979	1.016	1.022	1.028	1.052	1.078	1.066	1.063	1.032	3.42	
26) s O-Terphenyl-MS	0.542	0.559	0.553	0.557	0.563	0.566	0.555	0.531			0.553	2.07
27) t Fluoranthene	1.139	1.120	1.159	1.161	1.162	1.222	1.230	1.247	1.194	1.182	3.71	
28) t Pyrene	1.157	1.160	1.197	1.199	1.217	1.277	1.293	1.311	1.234	1.227	4.57	
29) s 4-Terphenyl-d14	0.787	0.823	0.812	0.835	0.841	0.847	0.821	0.799			0.821	2.52
30) i Chrysene-d12	-----ISTD-----											
31) t Benzo[a]anthracene	1.396	1.290	1.277	1.256	1.249	1.283	1.310	1.330	1.330	1.302	3.48	
32) t Chrysene	1.404	1.389	1.416	1.406	1.380	1.346	1.378	1.319	1.275	1.368	3.39	
33) t bis(2-Ethylhexyl)phthalate			0.429	0.445	0.470	0.482	0.581	0.624	0.730	0.734	*Q	0.9973
34) i Perylene-d12	-----ISTD-----											
35) t Benzo[b]fluora...	1.145	1.132	1.193	1.156	1.214	1.250	1.314	1.262	1.268	1.215	5.20	
36) t Benzo[k]fluora...	1.068	1.068	1.130	1.191	1.185	1.240	1.253	1.329	1.226	1.188	7.32	
37) t Benzo[a]pyrene	0.856	0.877	0.929	0.943	0.980	1.014	1.089	1.106	1.111	0.990	9.79	
38) t Indeno[1,2,3-c...	0.802	0.844	0.904	0.867	0.905	0.886	0.981	0.981	1.082	0.917	9.26	
39) t Dibenzo[a,h]anthracene	0.858	0.918	1.017	0.996	1.062	1.076	1.173	1.146	1.228	1.053	11.38	
40) t Benzo[g,h,i]pe...	1.016	1.072	1.179	1.148	1.196	1.130	1.244	1.191	1.295	1.163	7.28	

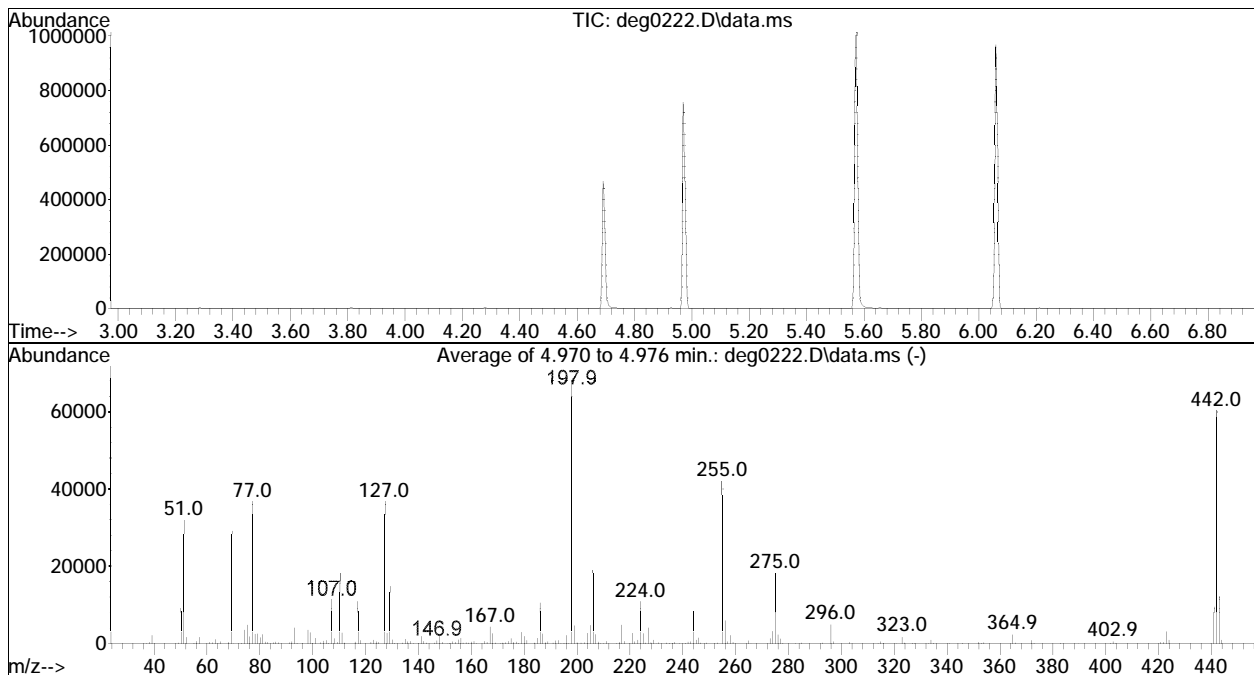
(#) = Out of Range

DFTPP

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : deg0222.D
 Acq On : 22 Feb 2023 10:31 am
 Operator : SV120:jjw
 Sample : TUNE
 Misc : WG1749940,,ical
 ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Wed Mar 01 12:04:08 2023

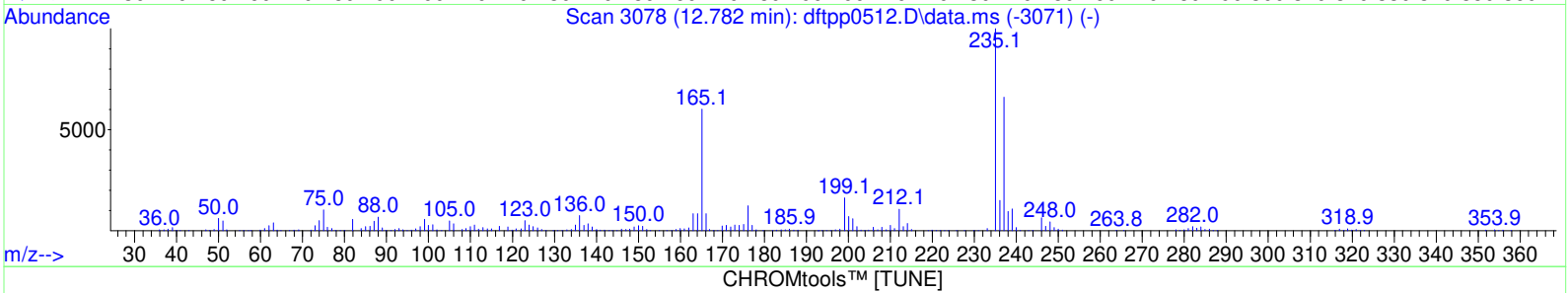
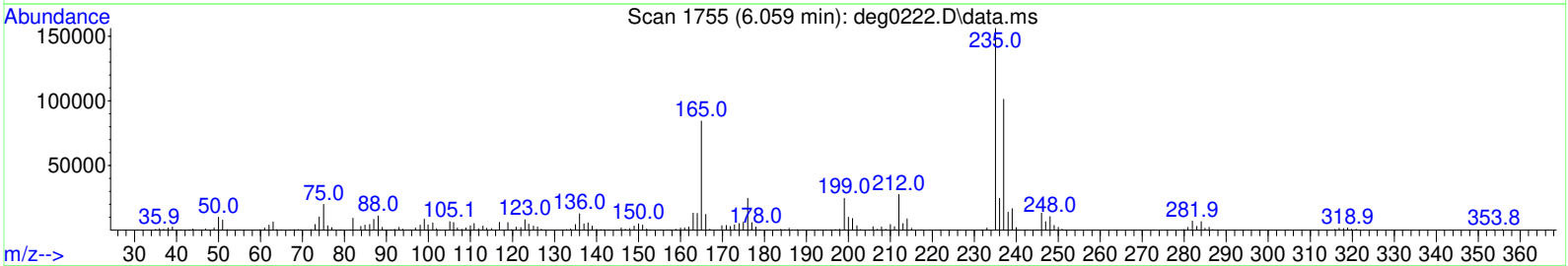
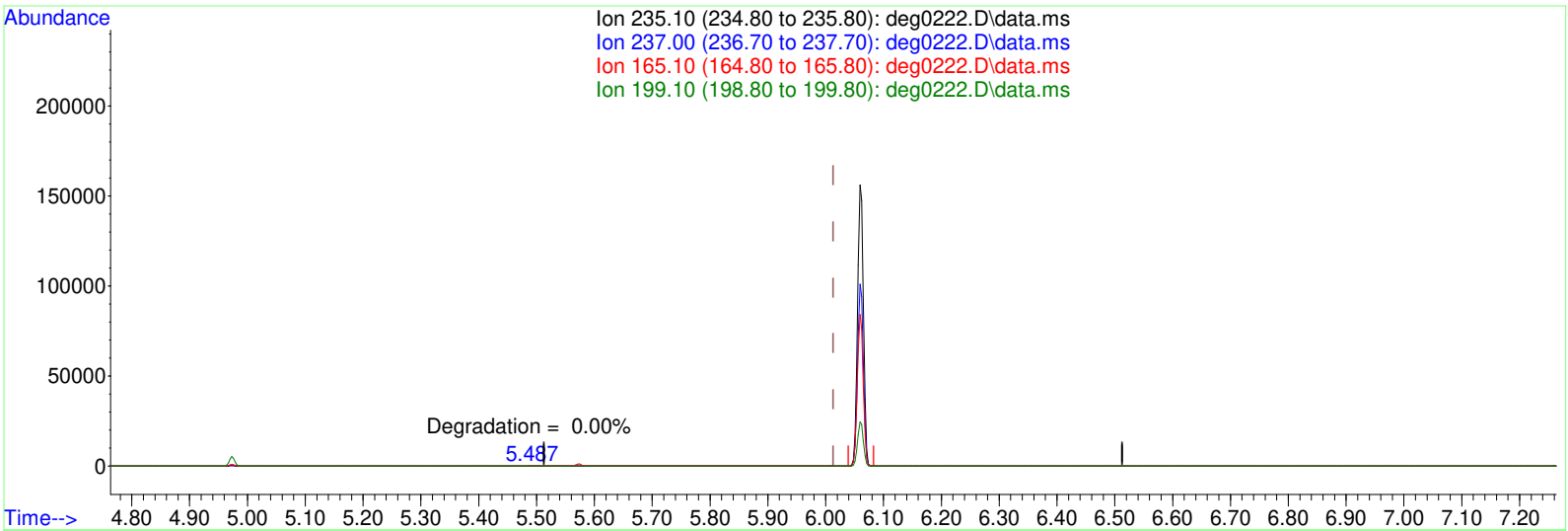


Spectrum Information: Average of 4.970 to 4.976 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	46.6	31864	PASS
68	69	0.00	2	1.6	474	PASS
69	69	100	100	100.0	29133	PASS
70	69	0.00	2	0.4	105	PASS
127	198	10	80	53.6	36635	PASS
197	198	0.00	2	0.3	179	PASS
198	198	100	100	100.0	68320	PASS
199	198	5	9	6.9	4686	PASS
275	198	10	60	26.7	18241	PASS
365	198	1	100	3.5	2387	PASS
441	442	0.01	24	15.9	9580	PASS
442	198	50	100	88.2	60237	PASS
443	442	15	24	19.9	12003	PASS

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : deg0222.D
 Acq On : 22 Feb 2023 10:31 am
 Operator : SV120:jjw
 Sample : TUNE
 Misc : WG1749940,,ical
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Feb 22 10:46:24 2023
 Quant Method : I:\8270SIM\sv120\230222STical\dftppsv120.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Nov 29 13:10:57 2022
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(6) ddt (T)

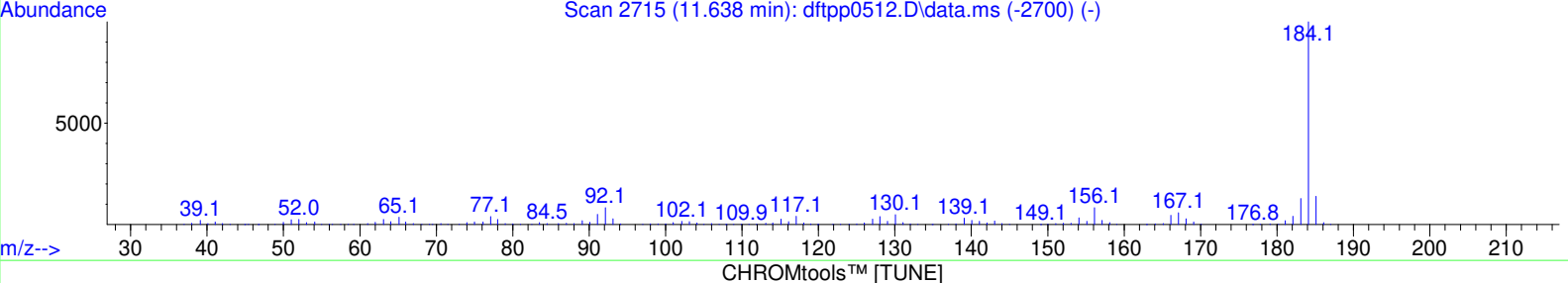
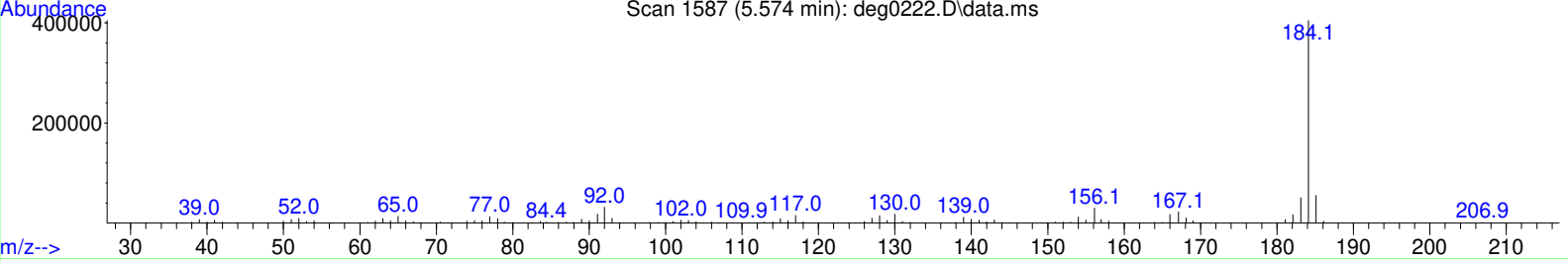
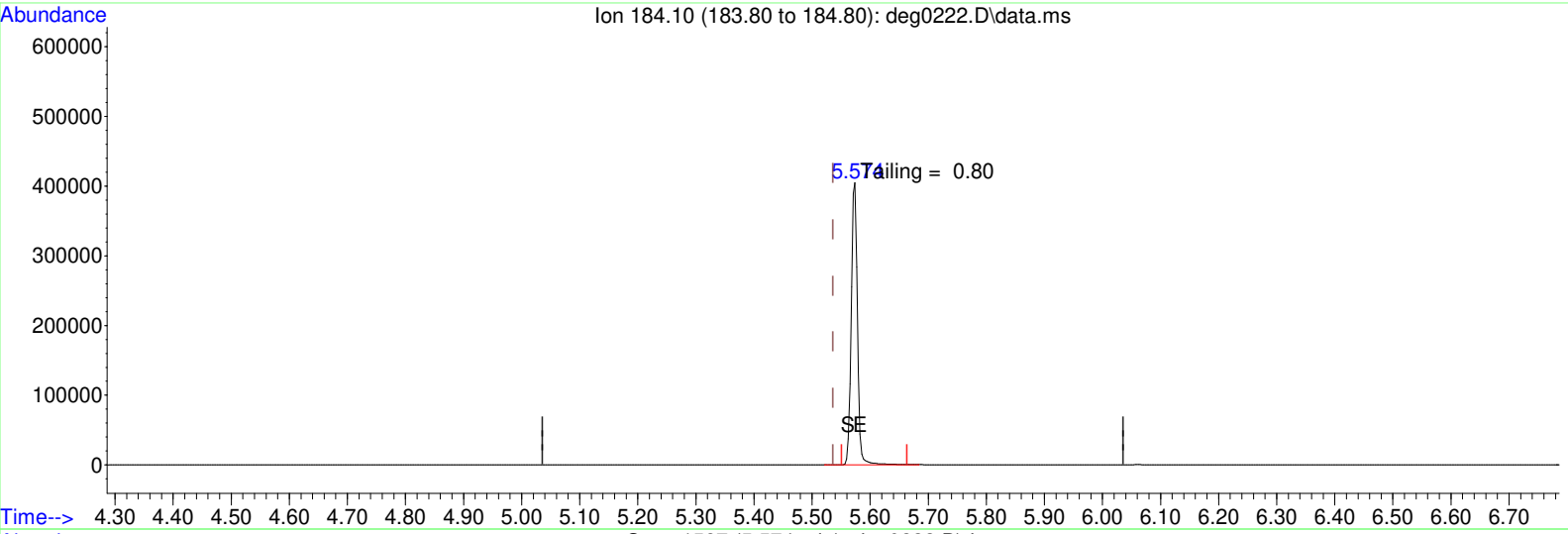
6.059min (+ 0.046) 18.05

response 110048

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.28
165.10	53.30	53.56
199.10	17.10	15.67

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : deg0222.D
 Acq On : 22 Feb 2023 10:31 am
 Operator : SV120:jjw
 Sample : TUNE
 Misc : WG1749940,,ical
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Feb 22 10:46:24 2023
 Quant Method : I:\8270SIM\sv120\230222STical\dftppsv120.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Nov 29 13:10:57 2022
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



CHROMtools™ [TUNE]

(3) benzidine (T)

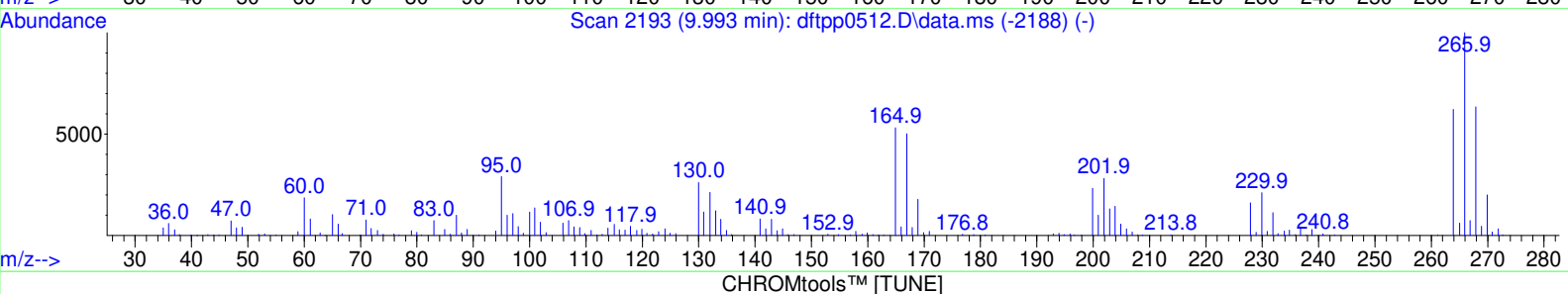
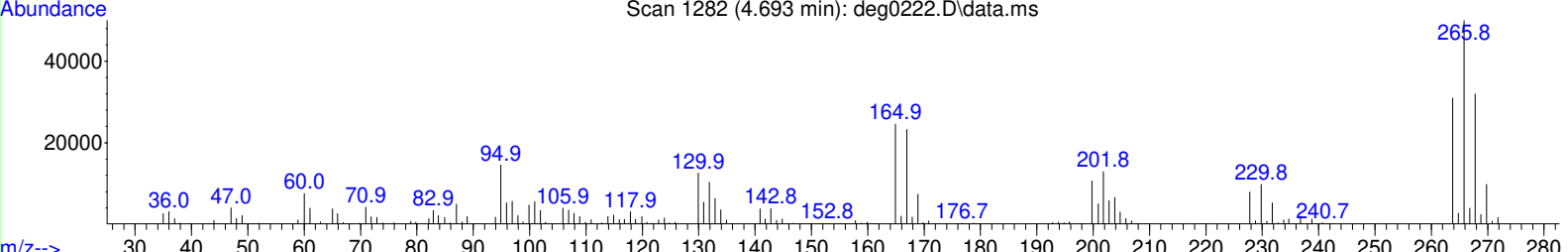
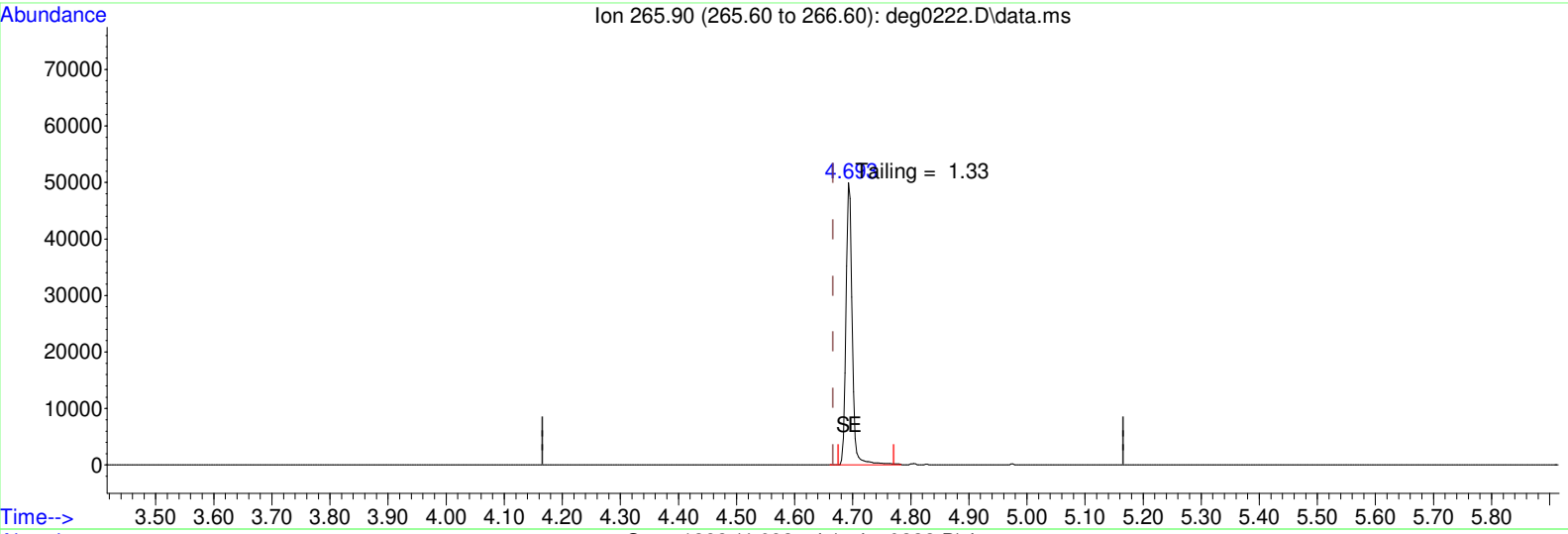
5.574min (+ 0.038) 29.78

response 303197

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : deg0222.D
 Acq On : 22 Feb 2023 10:31 am
 Operator : SV120:jjw
 Sample : TUNE
 Misc : WG1749940,,ical
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Feb 22 10:46:24 2023
 Quant Method : I:\8270SIM\sv120\230222STical\dftppsv120.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Nov 29 13:10:57 2022
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(1) pentachlorophenol (T)

4.693min (+ 0.027) 17.71

response 37202

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL10.D
 Acq On : 22 Feb 2023 11:10 am
 Operator : SV120:jjw
 Sample : IL10,32,, 20.0/- Lot#9877
 Misc : WG1749940,,ical
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 11:43:36 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:44:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.263	152	26209	4.000	ug/ml	# 0.00
Standard Area 1 = 24853			Recovery =	105.46%		
8) Naphthalene-d8	2.936	136	98667	4.000	ug/ml	0.00
Standard Area 1 = 93308			Recovery =	105.74%		
16) Acenaphthene-d10	3.923	164	54866	4.000	ug/ml	0.00
Standard Area 1 = 50201			Recovery =	109.29%		
20) Phenanthrene-d10	4.770	188	115617	4.000	ug/ml	0.00
Standard Area 1 = 107790			Recovery =	107.26%		
30) Chrysene-d12	6.357	240	107459	4.000	ug/ml	0.00
Standard Area 1 = 101124			Recovery =	106.26%		
34) Perylene-d12	7.646	264	127845	4.000	ug/ml	0.00
Standard Area 1 = 114021			Recovery =	112.12%		
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.000	ug/ml	
Spiked Amount 50.000	Range 15 - 110		Recovery =	0.00%#		
3) Phenol-d6	0.000	99	0d	0.000	ug/ml	
Spiked Amount 50.000	Range 15 - 110		Recovery =	0.00%#		
7) Nitrobenzene-d5	0.000	82	0d	0.000	ug/ml	
Spiked Amount 25.000	Range 30 - 130		Recovery =	0.00%#		
13) 2-Fluorobiphenyl	0.000	172	0d	0.000	ug/ml	
Spiked Amount 25.000	Range 30 - 130		Recovery =	0.00%#		
19) 2,4,6-Tribromophenol	0.000	330	0	0.000	ug/ml	
Spiked Amount 50.000	Range 15 - 110		Recovery =	0.00%#		
26) O-Terphenyl-MS	0.000	230	0d	0.000	ug/ml	
Spiked Amount 20.000	Range 40 - 140		Recovery =	0.00%#		
29) 4-Terphenyl-d14	0.000	244	0d	0.000	ug/ml	
Spiked Amount 25.000	Range 30 - 130		Recovery =	0.00%#		
Target Compounds						
4) Hexachloroethane	2.527	117	63065	19.938	ug/ml	93
5) Bis(2-chloroethyl)ether	2.124	93	140950	19.805	ug/ml	94
6) n-nitrosodi-n-propylamine	2.465	70	101362	21.258	ug/ml	95
9) Naphthalene	2.946	128	491777	19.358	ug/ml	100
10) Hexachlorobutadiene	3.022	225	91888	19.306	ug/ml	100
11) 2-Methylnaphthalene	3.333	142	319287	20.013	ug/ml	100
12) 1-Methylnaphthalene	3.389	142	311761	19.944	ug/ml	100
14) 2-Chloronaphthalene	3.606	162	333734	19.779	ug/ml	99
15) Acenaphthylene	3.843	152	516615	21.274	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL10.D
 Acq On : 22 Feb 2023 11:10 am
 Operator : SV120:jjw
 Sample : IL10,32,, 20.0/- Lot#9877
 Misc : WG1749940,,ical
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 11:43:36 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:44:01 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthene	3.943	153	360146	19.255	ug/ml	100
18) Fluorene	4.236	166	388341	19.722	ug/ml	100
21) 4,6-Dinitro-o-cresol	4.265	198	35922	26.905	ug/ml	99
22) Hexachlorobenzene	4.556	284	132896	19.239	ug/ml	98
23) Pentachlorophenol	4.666	266	64566	26.115	ug/ml	99
24) Phenanthrene	4.785	178	604460	19.021	ug/ml	100
25) Anthracene	4.814	178	614408	20.595	ug/ml	100
27) Fluoranthene	5.471	202	690435	20.215	ug/ml	97
28) Pyrene	5.603	202	713632	20.117	ug/ml	99
31) Benzo[a]anthracene	6.350	228	714537	20.423	ug/ml	100
32) Chrysene	6.376	228	685172	18.642	ug/ml	99
33) Bis(2-ethylhexyl)phtha...	6.378	149	394345	26.131	ug/ml	98
35) Benzo[b]fluoranthene	7.252	252	810772	20.880	ug/ml	100
36) Benzo[k]fluoranthene	7.281	252	783785	20.650	ug/ml	99
37) Benzo[a]pyrene	7.585	252	709971	22.448	ug/ml	98
38) Indeno[1,2,3-cd]pyrene	8.961	276	691492	23.596	ug/ml	95
39) Dibenzo[a,h]anthracene	9.010	278	784976M6	23.328	ug/ml	
40) Benzo[g,h,i]perylene	9.338	276	828365	22.278	ug/ml	94

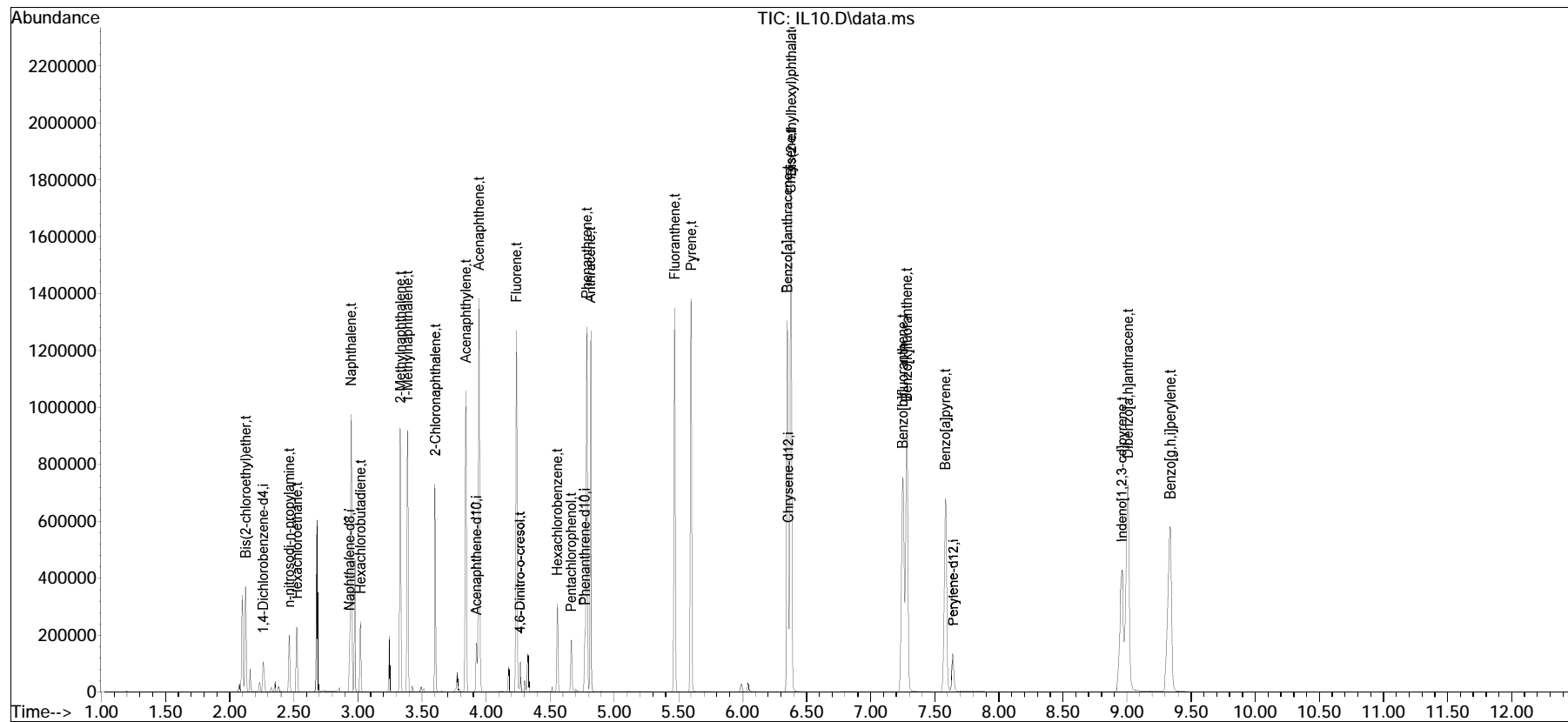
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL10.D
 Acq On : 22 Feb 2023 11:10 am
 Operator : SV120:jjw
 Sample : IL10,32,, 20.0/- Lot#9877
 Misc : WG1749940,,ical
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 01 11:43:36 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:44:01 2023
 Response via : Initial Calibration

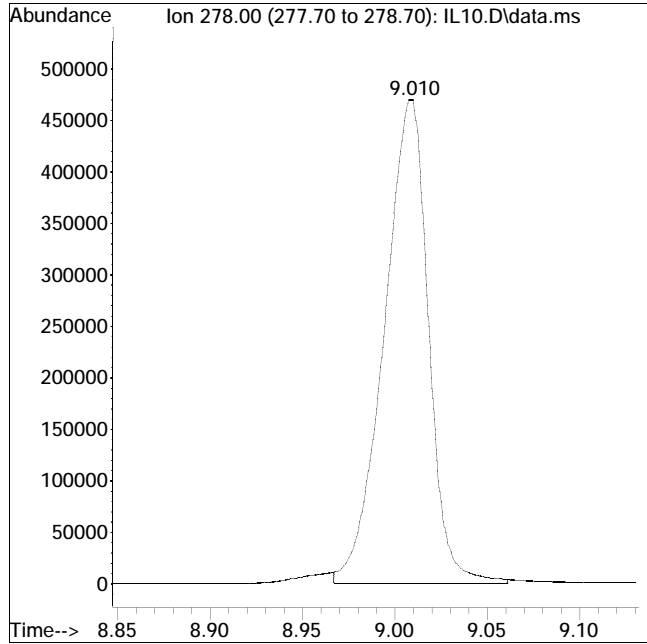
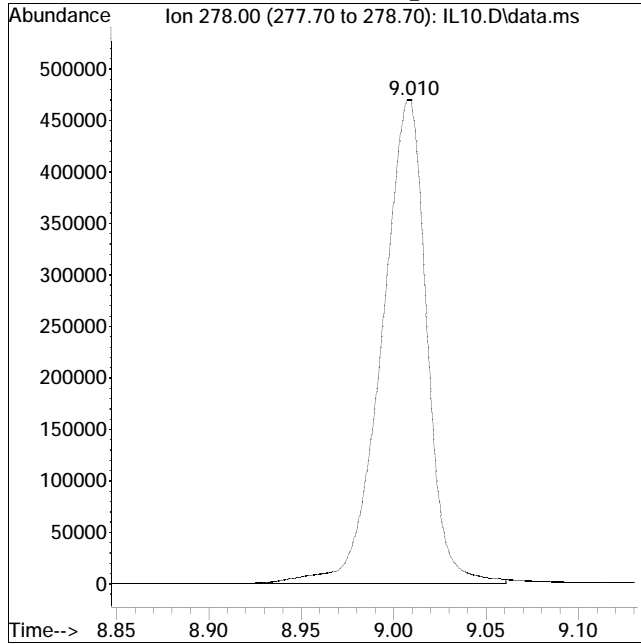
Sub List : Default - All compounds listed cal\IL8.D•



Manual Integration Report

Data Path : I:\8270SIM\sv120\230222STiQMethod : simtech230222-sv120.M
Data File : IL10.D Operator : SV120:jjw
Date Inj'd : 2/22/2023 11:10 am Instrument : SV120
Sample : IL10,32,, 20.0/- Lot#9877 Quant Date : 3/1/2023 11:44 am

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 799025

Manual Peak Response = 784976 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL9.D
 Acq On : 22 Feb 2023 11:27 am
 Operator : SV120:jjw
 Sample : IL9,32,, 10.0/60.0 Lot#9882
 Misc : WG1749940,,ical
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 11:44:52 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:45:18 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.261	152	26691	4.000	ug/ml	0.00
Standard Area 1 = 24853			Recovery =	107.40%		
8) Naphthalene-d8	2.934	136	101429	4.000	ug/ml	0.00
Standard Area 1 = 93308			Recovery =	108.70%		
16) Acenaphthene-d10	3.924	164	57575	4.000	ug/ml	0.00
Standard Area 1 = 50201			Recovery =	114.69%		
20) Phenanthrene-d10	4.771	188	126353	4.000	ug/ml	0.00
Standard Area 1 = 107790			Recovery =	117.22%		
30) Chrysene-d12	6.356	240	126671	4.000	ug/ml	0.00
Standard Area 1 = 101124			Recovery =	125.26%		
34) Perylene-d12	7.643	264	136360	4.000	ug/ml	0.00
Standard Area 1 = 114021			Recovery =	119.59%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.655	112	423127	61.162	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	122.32%#		
3) Phenol-d6	2.069	99	524628	61.386	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	122.77%#		
7) Nitrobenzene-d5	2.548	82	445328	66.048	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	264.19%#		
13) 2-Fluorobiphenyl	3.539	172	1150424	57.385	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	229.54%#		
19) 2,4,6-Tribromophenol	4.374	330	191474	75.076	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	150.15%#		
26) O-Terphenyl-MS	4.998	230	1007037	57.606	ug/ml	0.00
Spiked Amount 20.000	Range 40 - 140		Recovery =	288.03%#		
29) 4-Terphenyl-d14	5.701	244	1515101	58.448	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	233.79%#		
Target Compounds						
4) Hexachloroethane	2.525	117	31997	9.933	ug/ml	93
5) Bis(2-chloroethyl)ether	2.122	93	71949	9.927	ug/ml	93
6) n-nitrosodi-n-propylamine	2.462	70	51842	10.676	ug/ml	96
9) Naphthalene	2.947	128	255314	9.776	ug/ml	100
10) Hexachlorobutadiene	3.019	225	47769	9.763	ug/ml	100
11) 2-Methylnaphthalene	3.331	142	165007	10.061	ug/ml	100
12) 1-Methylnaphthalene	3.387	142	162138	10.090	ug/ml	100
14) 2-Chloronaphthalene	3.606	162	179066	10.323	ug/ml	99
15) Acenaphthylene	3.840	152	275476	11.035	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL9.D
 Acq On : 22 Feb 2023 11:27 am
 Operator : SV120:jjw
 Sample : IL9,32,, 10.0/60.0 Lot#9882
 Misc : WG1749940,,ical
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 11:44:52 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:45:18 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthene	3.940	153	191757	9.770	ug/ml	100
18) Fluorene	4.237	166	208934	10.111	ug/ml	100
21) 4,6-Dinitro-o-cresol	4.263	198	18245	12.504	ug/ml	97
22) Hexachlorobenzene	4.556	284	72860	9.652	ug/ml	97
23) Pentachlorophenol	4.665	266	34801	12.880	ug/ml	100
24) Phenanthrene	4.783	178	333678	9.608	ug/ml	100
25) Anthracene	4.813	178	336837	10.331	ug/ml	100
27) Fluoranthene	5.471	202	394012	10.556	ug/ml	97
28) Pyrene	5.604	202	413994	10.678	ug/ml	99
31) Benzo[a]anthracene	6.348	228	421062	10.210	ug/ml	100
32) Chrysene	6.374	228	417688	9.641	ug/ml	99
33) Bis(2-ethylhexyl)phtha...	6.379	149	231036	12.987	ug/ml	98
35) Benzo[b]fluoranthene	7.250	252	430137	10.386	ug/ml	97
36) Benzo[k]fluoranthene	7.276	252	452925	11.188	ug/ml	98
37) Benzo[a]pyrene	7.580	252	377135	11.180	ug/ml	99
38) Indeno[1,2,3-cd]pyrene	8.954	276	334464	10.700	ug/ml	94
39) Dibenzo[a,h]anthracene	8.992	278	390616M6	10.884	ug/ml	
40) Benzo[g,h,i]perylene	9.320	276	406089	10.240	ug/ml	94

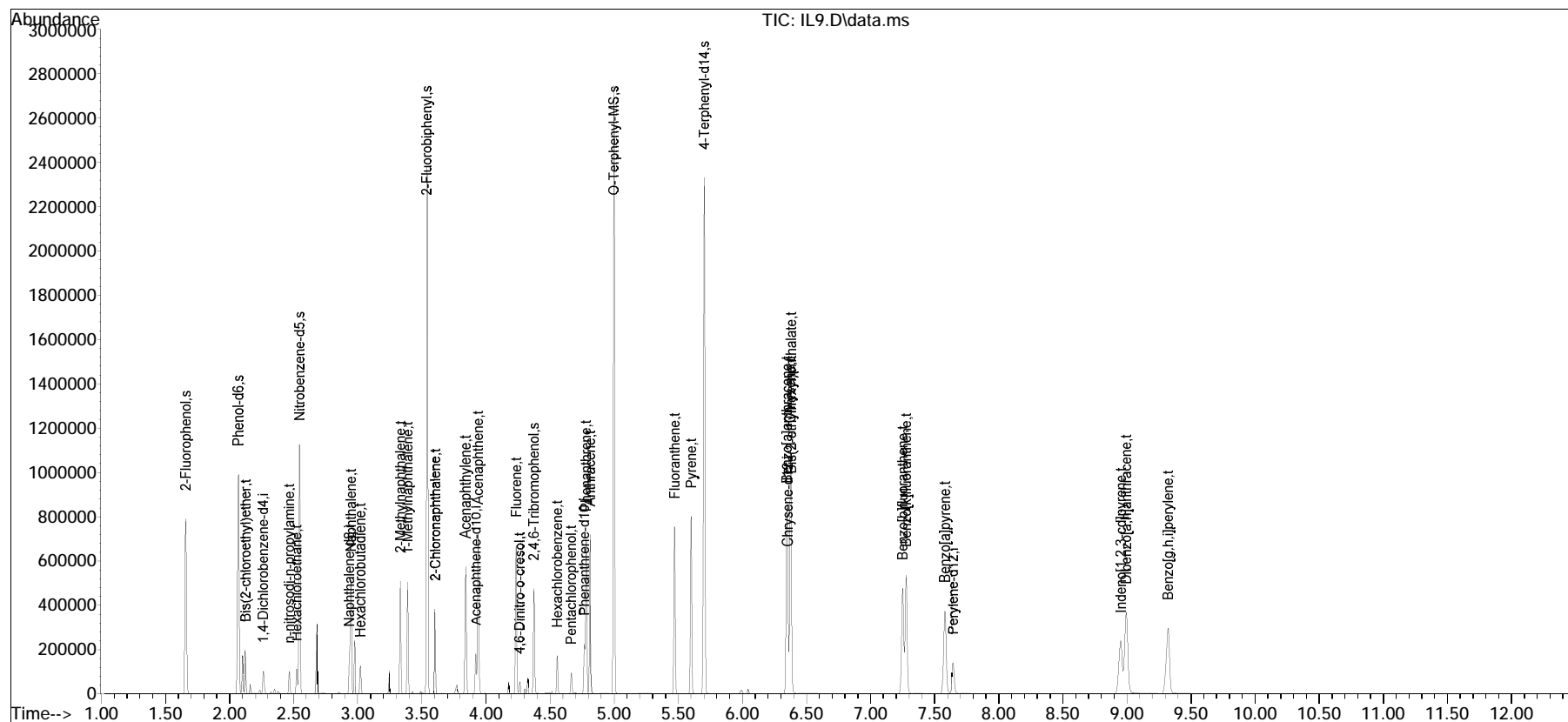
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL9.D
 Acq On : 22 Feb 2023 11:27 am
 Operator : SV120:jjw
 Sample : IL9,32,, 10.0/60.0 Lot#9882
 Misc : WG1749940,,ical
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 01 11:44:52 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:45:18 2023
 Response via : Initial Calibration

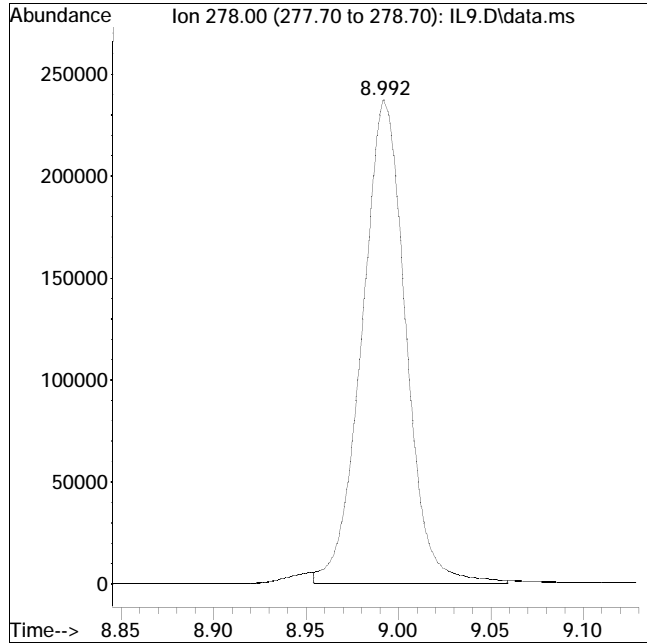
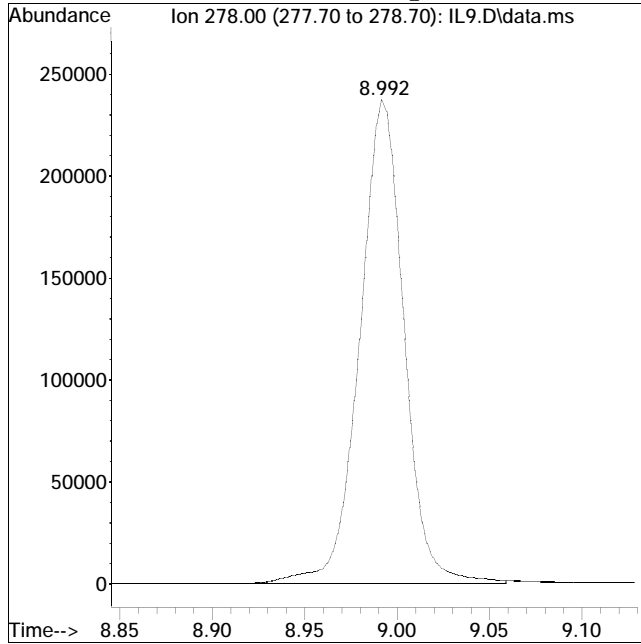
Sub List : Default - All compounds listed cal\IL8.D•



Manual Integration Report

Data Path : I:\8270SIM\sv120\230222STiQMethod : simtech230222-sv120.M
Data File : IL9.D Operator : SV120:jjw
Date Inj'd : 2/22/2023 11:27 am Instrument : SV120
Sample : IL9,32,, 10.0/60.0 Lot#988Quant Date : 3/1/2023 11:45 am

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 396476

Manual Peak Response = 390616 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL8.D
 Acq On : 22 Feb 2023 11:43 am
 Operator : SV120:jjw
 Sample : IL8,32,, 5.0/30.0 Lot#9883
 Misc : WG1749940,,ical
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 11:44:44 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:45:09 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.261	152	24853	4.000	ug/ml	0.00
Standard Area 1 = 24853			Recovery =	100.00%		
8) Naphthalene-d8	2.934	136	93308	4.000	ug/ml	0.00
Standard Area 1 = 93308			Recovery =	100.00%		
16) Acenaphthene-d10	3.924	164	50201	4.000	ug/ml	0.00
Standard Area 1 = 50201			Recovery =	100.00%		
20) Phenanthrene-d10	4.771	188	107790	4.000	ug/ml	0.00
Standard Area 1 = 107790			Recovery =	100.00%		
30) Chrysene-d12	6.353	240	101110	4.000	ug/ml	0.00
Standard Area 1 = 101124			Recovery =	99.99%		
34) Perylene-d12	7.640	264	114021	4.000	ug/ml	0.00
Standard Area 1 = 114021			Recovery =	100.00%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.653	112	201130	31.223	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	62.45%		
3) Phenol-d6	2.067	99	248886	31.275	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	62.55%		
7) Nitrobenzene-d5	2.546	82	204994	32.652	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	130.61%#		
13) 2-Fluorobiphenyl	3.540	172	541770	29.377	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	117.51%		
19) 2,4,6-Tribromophenol	4.372	330	78733	35.405	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	70.81%		
26) O-Terphenyl-MS	4.995	230	448659	30.085	ug/ml	0.00
Spiked Amount 20.000	Range 40 - 140		Recovery =	150.43%#		
29) 4-Terphenyl-d14	5.696	244	663380	29.998	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	119.99%		
Target Compounds						
4) Hexachloroethane	2.525	117	15178	5.060	ug/ml	93
5) Bis(2-chloroethyl)ether	2.122	93	33946	5.030	ug/ml	94
6) n-nitrosodi-n-propylamine	2.463	70	23671	5.235	ug/ml	96
9) Naphthalene	2.947	128	120256	5.005	ug/ml	100
10) Hexachlorobutadiene	3.019	225	22580	5.016	ug/ml	100
11) 2-Methylnaphthalene	3.331	142	76603	5.077	ug/ml	100
12) 1-Methylnaphthalene	3.387	142	75143	5.083	ug/ml	100
14) 2-Chloronaphthalene	3.603	162	80753	5.061	ug/ml	99
15) Acenaphthylene	3.841	152	122012	5.313	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL8.D
 Acq On : 22 Feb 2023 11:43 am
 Operator : SV120:jjw
 Sample : IL8,32,, 5.0/30.0 Lot#9883
 Misc : WG1749940,,ical
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 11:44:44 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:45:09 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthene	3.941	153	85919	5.021	ug/ml	99
18) Fluorene	4.234	166	91791	5.095	ug/ml	100
21) 4,6-Dinitro-o-cresol	4.262	198	6988	5.614	ug/ml	94
22) Hexachlorobenzene	4.554	284	32334	5.021	ug/ml	97
23) Pentachlorophenol	4.662	266	14126	6.128	ug/ml	100
24) Phenanthrene	4.783	178	146729	4.953	ug/ml	100
25) Anthracene	4.812	178	145225	5.221	ug/ml	100
27) Fluoranthene	5.469	202	165780	5.206	ug/ml	97
28) Pyrene	5.601	202	174271	5.269	ug/ml	99
31) Benzo[a]anthracene	6.345	228	165635	5.032	ug/ml	100
32) Chrysene	6.371	228	174218	5.038	ug/ml	99
33) Bis(2-ethylhexyl)phtha...	6.379	149	78841	5.552	ug/ml	98
35) Benzo[b]fluoranthene	7.247	252	187281	5.408	ug/ml	100
36) Benzo[k]fluoranthene	7.273	252	178521	5.274	ug/ml	100
37) Benzo[a]pyrene	7.577	252	155236	5.503	ug/ml	99
38) Indeno[1,2,3-cd]pyrene	8.946	276	139832	5.350	ug/ml	95
39) Dibenzo[a,h]anthracene	8.986	278	167246M6	5.573	ug/ml	
40) Benzo[g,h,i]perylene	9.306	276	177130	5.341	ug/ml	94

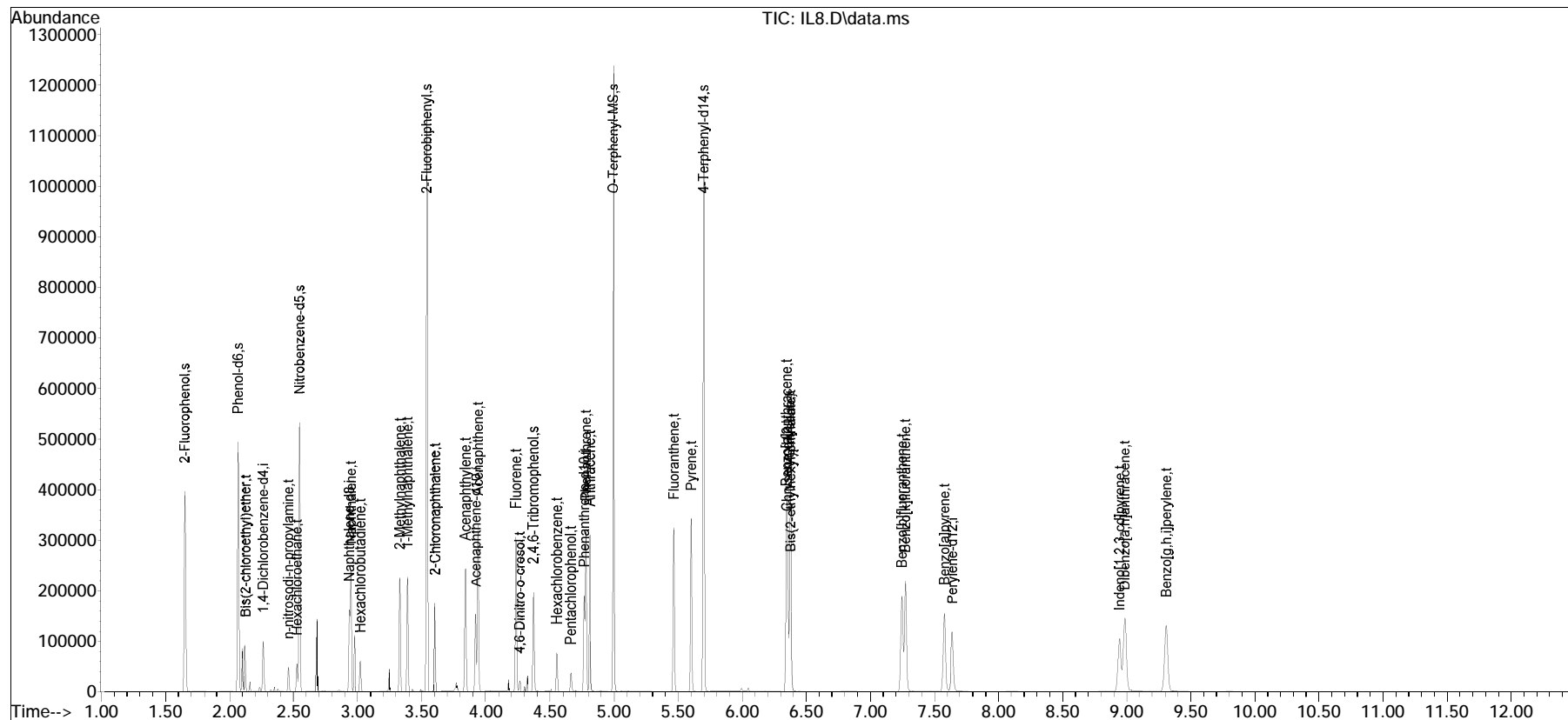
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL8.D
 Acq On : 22 Feb 2023 11:43 am
 Operator : SV120:jjw
 Sample : IL8,32,, 5.0/30.0 Lot#9883
 Misc : WG1749940,,ical
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 01 11:44:44 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:45:09 2023
 Response via : Initial Calibration

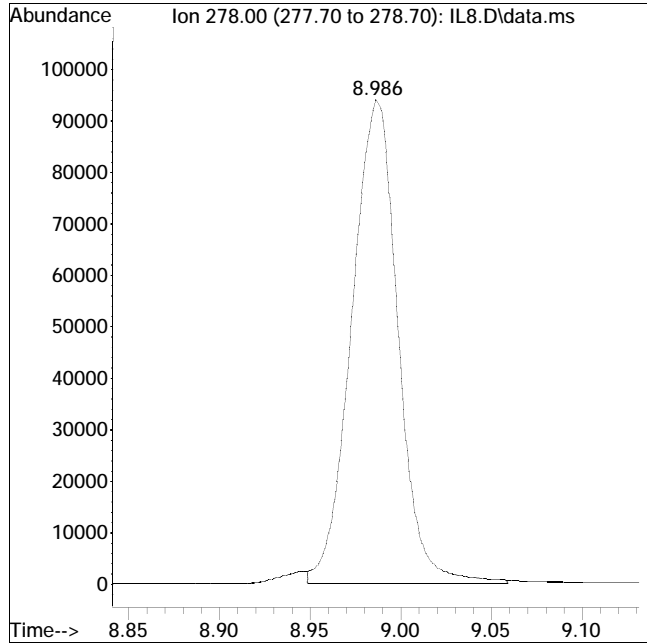
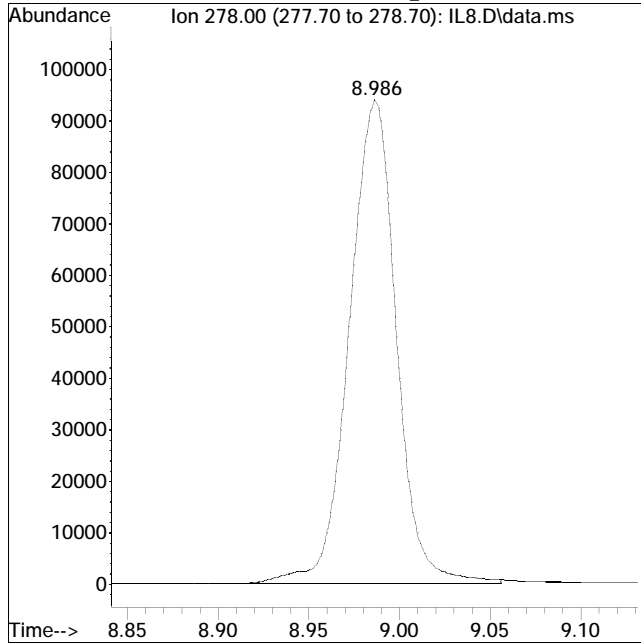
Sub List : Default - All compounds listed cal\IL8.D•



Manual Integration Report

Data Path : I:\8270SIM\sv120\230222STiQMethod : simtech230222-sv120.M
Data File : IL8.D Operator : SV120:jjw
Date Inj'd : 2/22/2023 11:43 am Instrument : SV120
Sample : IL8,32,, 5.0/30.0 Lot#9883Quant Date : 3/1/2023 11:45 am

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 169746

Manual Peak Response = 167246 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL7.D
 Acq On : 22 Feb 2023 12:00 pm
 Operator : SV120:jjw
 Sample : IL7,32,, 2.0/20.0 Lot#9884
 Misc : WG1749940,,ical
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 01 11:44:34 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:44:59 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.264	152	34842	4.000	ug/ml	0.00
Standard Area 1 = 24853			Recovery =	140.19%		
8) Naphthalene-d8	2.933	136	130493	4.000	ug/ml	0.00
Standard Area 1 = 93308			Recovery =	139.85%		
16) Acenaphthene-d10	3.924	164	71503	4.000	ug/ml	0.00
Standard Area 1 = 50201			Recovery =	142.43%		
20) Phenanthrene-d10	4.770	188	158717	4.000	ug/ml	0.00
Standard Area 1 = 107790			Recovery =	147.25%		
30) Chrysene-d12	6.355	240	148217	4.000	ug/ml	0.00
Standard Area 1 = 101124			Recovery =	146.57%		
34) Perylene-d12	7.640	264	158220	4.000	ug/ml	0.00
Standard Area 1 = 114021			Recovery =	138.76%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.655	112	184387	20.418	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	40.84%		
3) Phenol-d6	2.066	99	229411	20.563	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	41.13%		
7) Nitrobenzene-d5	2.546	82	190771	21.675	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	86.70%		
13) 2-Fluorobiphenyl	3.539	172	512467	19.869	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	79.48%		
19) 2,4,6-Tribromophenol	4.371	330	74871	23.638	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	47.28%		
26) O-Terphenyl-MS	4.995	230	449294	20.461	ug/ml	0.00
Spiked Amount 20.000	Range 40 - 140		Recovery =	102.31%		
29) 4-Terphenyl-d14	5.698	244	672120	20.641	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	82.56%		
Target Compounds						Qvalue
4) Hexachloroethane	2.527	117	8466	2.013	ug/ml	94
5) Bis(2-chloroethyl)ether	2.122	93	18992	2.007	ug/ml	93
6) n-nitrosodi-n-propylamine	2.462	70	12812	2.021	ug/ml	97
9) Naphthalene	2.946	128	67263	2.002	ug/ml	100
10) Hexachlorobutadiene	3.019	225	12717	2.020	ug/ml	100
11) 2-Methylnaphthalene	3.331	142	42560	2.017	ug/ml	100
12) 1-Methylnaphthalene	3.386	142	41806	2.022	ug/ml	100
14) 2-Chloronaphthalene	3.606	162	45197	2.025	ug/ml	99
15) Acenaphthylene	3.840	152	67056	2.088	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL7.D
 Acq On : 22 Feb 2023 12:00 pm
 Operator : SV120:jjw
 Sample : IL7,32,, 2.0/20.0 Lot#9884
 Misc : WG1749940,,ical
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 01 11:44:34 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:44:59 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthene	3.940	153	48871	2.005	ug/ml	99
18) Fluorene	4.234	166	52628	2.051	ug/ml	100
21) 4,6-Dinitro-o-cresol	4.260	198	3606	1.967	ug/ml	94
22) Hexachlorobenzene	4.553	284	18935	1.997	ug/ml	97
23) Pentachlorophenol	4.664	266	7745	2.282	ug/ml	99
24) Phenanthrene	4.783	178	86085	1.973	ug/ml	100
25) Anthracene	4.812	178	83451	2.038	ug/ml	100
27) Fluoranthene	5.468	202	96979	2.068	ug/ml	96
28) Pyrene	5.600	202	101371	2.082	ug/ml	99
31) Benzo[a]anthracene	6.347	228	95103	1.971	ug/ml	100
32) Chrysene	6.371	228	99757	1.968	ug/ml	99
33) Bis(2-ethylhexyl)phtha...	6.378	149	43049	2.068	ug/ml	99
35) Benzo[b]fluoranthene	7.244	252	98864	2.057	ug/ml	100
36) Benzo[k]fluoranthene	7.270	252	98110	2.089	ug/ml	100
37) Benzo[a]pyrene	7.577	252	80249	2.050	ug/ml	99
38) Indeno[1,2,3-cd]pyrene	8.943	276	70127	1.934	ug/ml	94
39) Dibenzo[a,h]anthracene	8.986	278	85104M6	2.044	ug/ml	
40) Benzo[g,h,i]perylene	9.306	276	89364	1.942	ug/ml	93

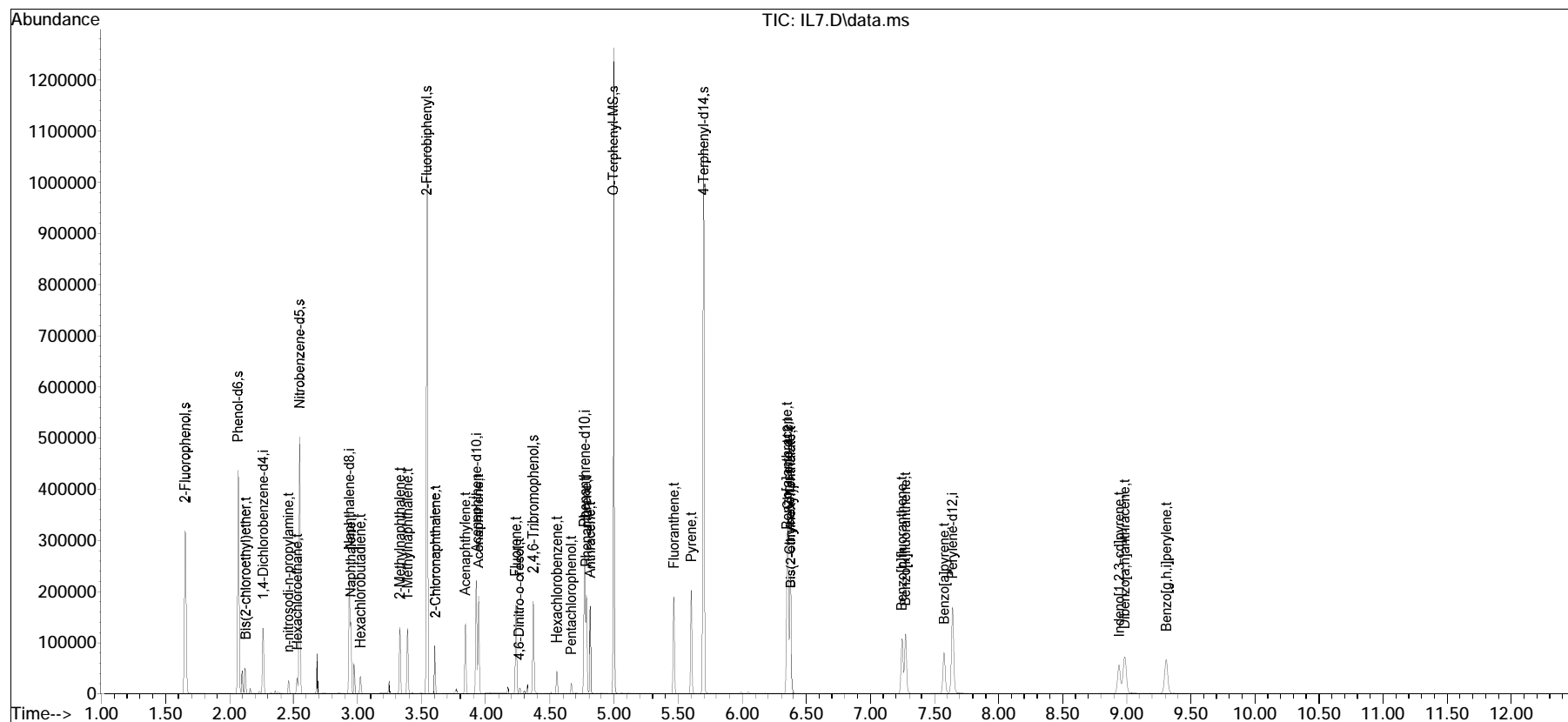
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL7.D
 Acq On : 22 Feb 2023 12:00 pm
 Operator : SV120:jjw
 Sample : IL7,32,, 2.0/20.0 Lot#9884
 Misc : WG1749940,,ical
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 01 11:44:34 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:44:59 2023
 Response via : Initial Calibration

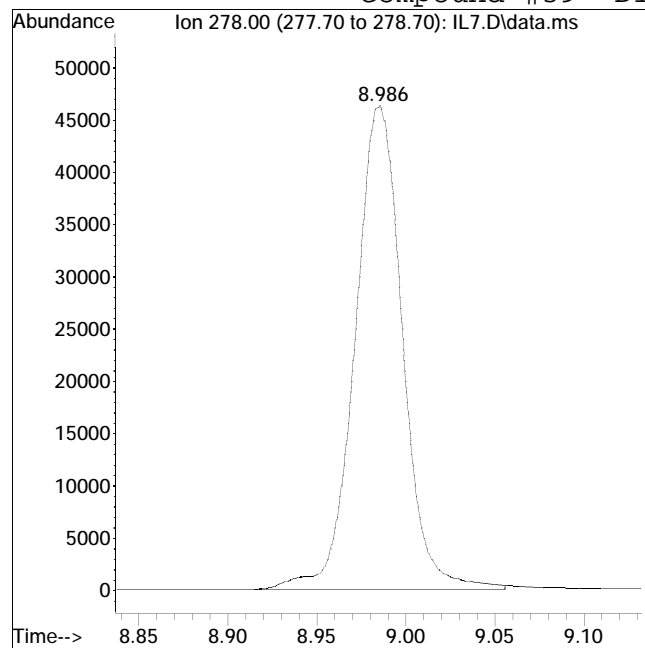
Sub List : Default - All compounds listed cal\IL8.D•



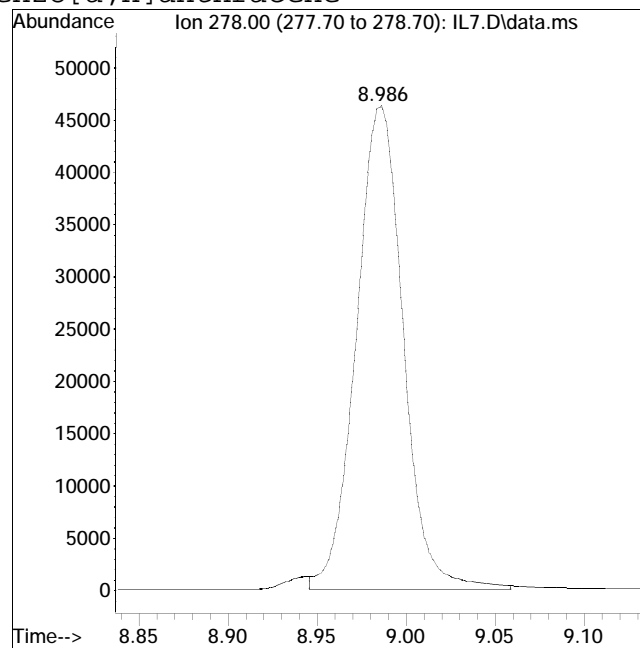
Manual Integration Report

Data Path : I:\8270SIM\sv120\230222STIQMethod : simtech230222-sv120.M
Data File : IL7.D Operator : SV120:jjw
Date Inj'd : 2/22/2023 12:00 pm Instrument : SV120
Sample : IL7,32,, 2.0/20.0 Lot#9884Quant Date : 3/1/2023 11:44 am

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 86252



Manual Peak Response = 85104 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL6.D
 Acq On : 22 Feb 2023 12:16 pm
 Operator : SV120:jjw
 Sample : IL6,32,, 1.0/10.0 Lot#9885
 Misc : WG1749940,,ical
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 11:44:23 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:44:50 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.261	152	26743	4.000	ug/ml	0.00
Standard Area 1 = 24853			Recovery =	107.60%		
8) Naphthalene-d8	2.934	136	100165	4.000	ug/ml	0.00
Standard Area 1 = 93308			Recovery =	107.35%		
16) Acenaphthene-d10	3.921	164	52409	4.000	ug/ml	0.00
Standard Area 1 = 50201			Recovery =	104.40%		
20) Phenanthrene-d10	4.768	188	114048	4.000	ug/ml	0.00
Standard Area 1 = 107790			Recovery =	105.81%		
30) Chrysene-d12	6.353	240	98919	4.000	ug/ml	0.00
Standard Area 1 = 101124			Recovery =	97.82%		
34) Perylene-d12	7.643	264	107999	4.000	ug/ml	0.00
Standard Area 1 = 114021			Recovery =	94.72%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.653	112	72232	10.421	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	20.84%		
3) Phenol-d6	2.067	99	88553	10.341	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	20.68%		
7) Nitrobenzene-d5	2.543	82	69664	10.312	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	41.25%		
13) 2-Fluorobiphenyl	3.540	172	200214	10.113	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	40.45%		
19) 2,4,6-Tribromophenol	4.372	330	23832	10.265	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	20.53%		
26) O-Terphenyl-MS	4.995	230	160544	10.175	ug/ml	0.00
Spiked Amount 20.000	Range 40 - 140		Recovery =	50.88%		
29) 4-Terphenyl-d14	5.696	244	239813	10.249	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	41.00%		
Target Compounds						
4) Hexachloroethane	2.525	117	3219	0.997	ug/ml	94
5) Bis(2-chloroethyl)ether	2.122	93	7364	1.014	ug/ml	93
6) n-nitrosodi-n-propylamine	2.463	70	4851	0.997	ug/ml	97
9) Naphthalene	2.944	128	25923	1.005	ug/ml	100
10) Hexachlorobutadiene	3.020	225	4864	1.007	ug/ml	100
11) 2-Methylnaphthalene	3.331	142	16209	1.001	ug/ml	100
12) 1-Methylnaphthalene	3.387	142	15980	1.007	ug/ml	100
14) 2-Chloronaphthalene	3.604	162	17046	0.995	ug/ml	99
15) Acenaphthylene	3.841	152	24209	0.982	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL6.D
 Acq On : 22 Feb 2023 12:16 pm
 Operator : SV120:jjw
 Sample : IL6,32,, 1.0/10.0 Lot#9885
 Misc : WG1749940,,ical
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 11:44:23 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:44:50 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthene	3.941	153	18020	1.009	ug/ml	98
18) Fluorene	4.234	166	18980	1.009	ug/ml	100
21) 4,6-Dinitro-o-cresol	4.260	198	1128	0.856	ug/ml	93
22) Hexachlorobenzene	4.554	284	6908	1.014	ug/ml	99
23) Pentachlorophenol	4.665	266	2451	1.005	ug/ml	98
24) Phenanthrene	4.781	178	31226	0.996	ug/ml	100
25) Anthracene	4.810	178	29314	0.996	ug/ml	100
27) Fluoranthene	5.469	202	33125	0.983	ug/ml	97
28) Pyrene	5.601	202	34703	0.992	ug/ml	99
31) Benzo[a]anthracene	6.345	228	30898	0.959	ug/ml	100
32) Chrysene	6.371	228	34144	1.009	ug/ml	99
33) Bis(2-ethylhexyl)phtha...	6.379	149	11929	0.859	ug/ml	99
35) Benzo[b]fluoranthene	7.245	252	32789	1.000	ug/ml	100
36) Benzo[k]fluoranthene	7.270	252	31999	0.998	ug/ml	100
37) Benzo[a]pyrene	7.575	252	26466	0.991	ug/ml	99
38) Indeno[1,2,3-cd]pyrene	8.941	276	24443	0.987	ug/ml	94
39) Dibenzo[a,h]anthracene	8.984	278	28658	1.008	ug/ml	92
40) Benzo[g,h,i]perylene	9.304	276	32291	1.028	ug/ml	94

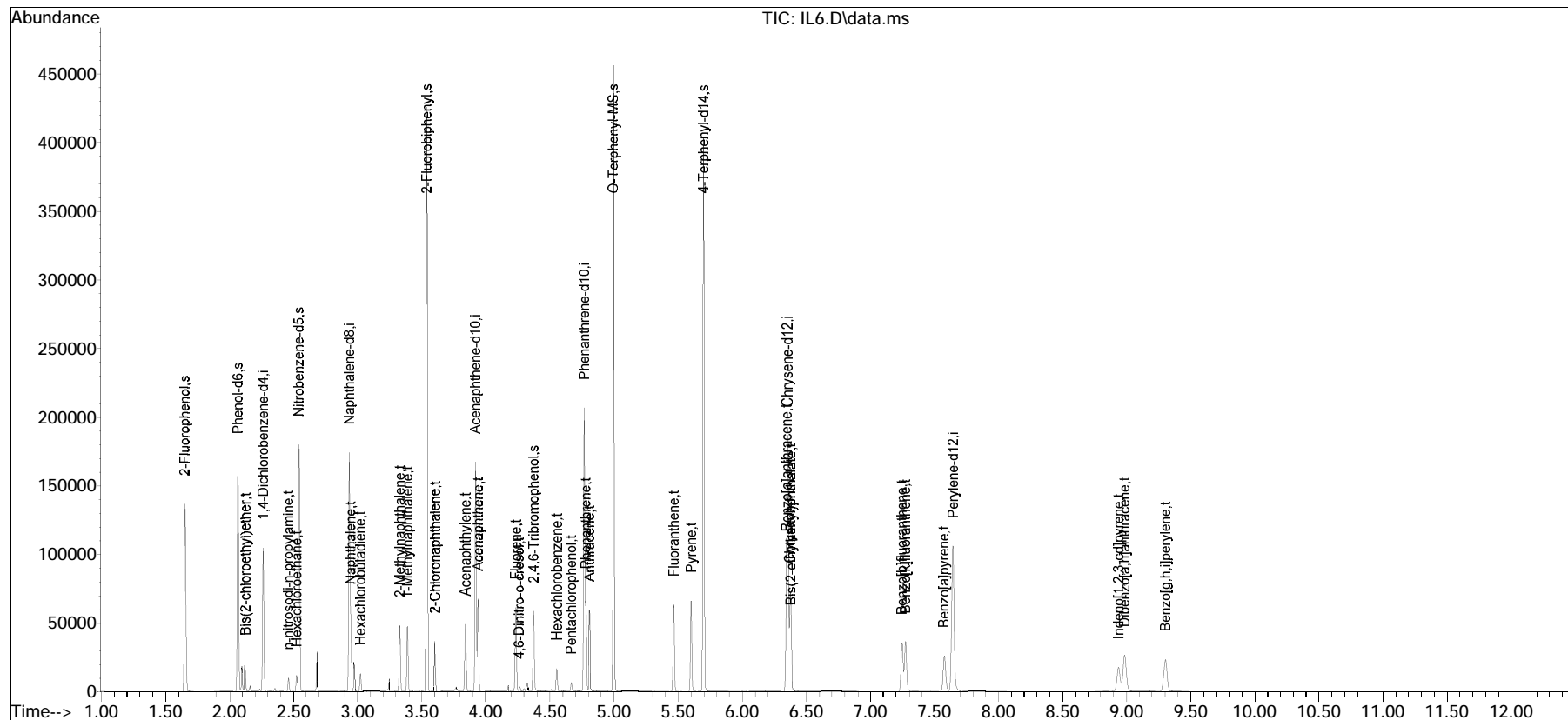
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL6.D
 Acq On : 22 Feb 2023 12:16 pm
 Operator : SV120:jjw
 Sample : IL6,32,, 1.0/10.0 Lot#9885
 Misc : WG1749940,,ical
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 11:44:23 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:44:50 2023
 Response via : Initial Calibration

Sub List : Default - All compounds listed cal\IL8.D•



Manual Integration Report

Data Path : I:\8270SIM\sv120\230222STiQMethod : simtech230222-sv120.M
Data File : IL6.D Operator : SV120:jjw
Date Inj'd : 2/22/2023 12:16 pm Instrument : SV120
Sample : IL6,32,, 1.0/10.0 Lot#9885Quant Date : 3/1/2023 11:44 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL5.D
 Acq On : 22 Feb 2023 12:33 pm
 Operator : SV120:jjw
 Sample : IL5,32,, 0.5/5.0 Lot#9886
 Misc : WG1749940,,ical
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 01 11:44:13 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:44:40 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.261	152	27955	4.000	ug/ml	0.00
Standard Area 1 = 24853			Recovery =	112.48%		
8) Naphthalene-d8	2.934	136	104560	4.000	ug/ml	0.00
Standard Area 1 = 93308			Recovery =	112.06%		
16) Acenaphthene-d10	3.921	164	55262	4.000	ug/ml	0.00
Standard Area 1 = 50201			Recovery =	110.08%		
20) Phenanthrene-d10	4.771	188	122093	4.000	ug/ml	0.00
Standard Area 1 = 107790			Recovery =	113.27%		
30) Chrysene-d12	6.356	240	104274	4.000	ug/ml	0.00
Standard Area 1 = 101124			Recovery =	103.11%		
34) Perylene-d12	7.643	264	110709	4.000	ug/ml	0.00
Standard Area 1 = 114021			Recovery =	97.10%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.658	112	36134	4.987	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	9.97%#		
3) Phenol-d6	2.066	99	44327	4.952	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	9.90%#		
7) Nitrobenzene-d5	2.546	82	34095	4.828	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	19.31%#		
13) 2-Fluorobiphenyl	3.540	172	104086	5.037	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	20.15%#		
19) 2,4,6-Tribromophenol	4.372	330	11410	4.661	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	9.32%#		
26) O-Terphenyl-MS	4.995	230	85034	5.034	ug/ml	0.00
Spiked Amount 20.000	Range 40 - 140		Recovery =	25.17%#		
29) 4-Terphenyl-d14	5.696	244	127437	5.088	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	20.35%#		
Target Compounds						
4) Hexachloroethane	2.525	117	1694	0.502	ug/ml	95
5) Bis(2-chloroethyl)ether	2.125	93	3855	0.508	ug/ml	93
6) n-nitrosodi-n-propylamine	2.463	70	2505	0.493	ug/ml	98
9) Naphthalene	2.947	128	13584	0.505	ug/ml	100
10) Hexachlorobutadiene	3.020	225	2545	0.505	ug/ml	100
11) 2-Methylnaphthalene	3.331	142	8448	0.500	ug/ml	100
12) 1-Methylnaphthalene	3.387	142	8315	0.502	ug/ml	100
14) 2-Chloronaphthalene	3.604	162	8944	0.500	ug/ml	99
15) Acenaphthylene	3.841	152	12498	0.486	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL5.D
 Acq On : 22 Feb 2023 12:33 pm
 Operator : SV120:jjw
 Sample : IL5,32,, 0.5/5.0 Lot#9886
 Misc : WG1749940,,ical
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 01 11:44:13 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:44:40 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthene	3.941	153	9486	0.504	ug/ml	100
18) Fluorene	4.235	166	9931	0.501	ug/ml	100
21) 4,6-Dinitro-o-cresol	4.261	198	545	0.387	ug/ml	95
22) Hexachlorobenzene	4.554	284	3736	0.512	ug/ml	98
23) Pentachlorophenol	4.665	266	1209	0.463	ug/ml	98
24) Phenanthrene	4.783	178	17038	0.508	ug/ml	100
25) Anthracene	4.813	178	15597	0.495	ug/ml	99
27) Fluoranthene	5.469	202	17715	0.491	ug/ml	97
28) Pyrene	5.601	202	18303	0.489	ug/ml	99
31) Benzo[a]anthracene	6.348	228	16371	0.482	ug/ml	100
32) Chrysene	6.374	228	18320	0.514	ug/ml	99
33) Bis(2-ethylhexyl)phtha...	6.382	149	6125	0.418	ug/ml	100
35) Benzo[b]fluoranthene	7.248	252	15991	0.476	ug/ml	97
36) Benzo[k]fluoranthene	7.273	252	16475	0.501	ug/ml	97
37) Benzo[a]pyrene	7.577	252	13046	0.476	ug/ml	99
38) Indeno[1,2,3-cd]pyrene	8.941	276	12002	0.473	ug/ml	94
39) Dibenzo[a,h]anthracene	8.986	278	13790	0.473	ug/ml	92
40) Benzo[g,h,i]perylene	9.304	276	15880	0.493	ug/ml	94

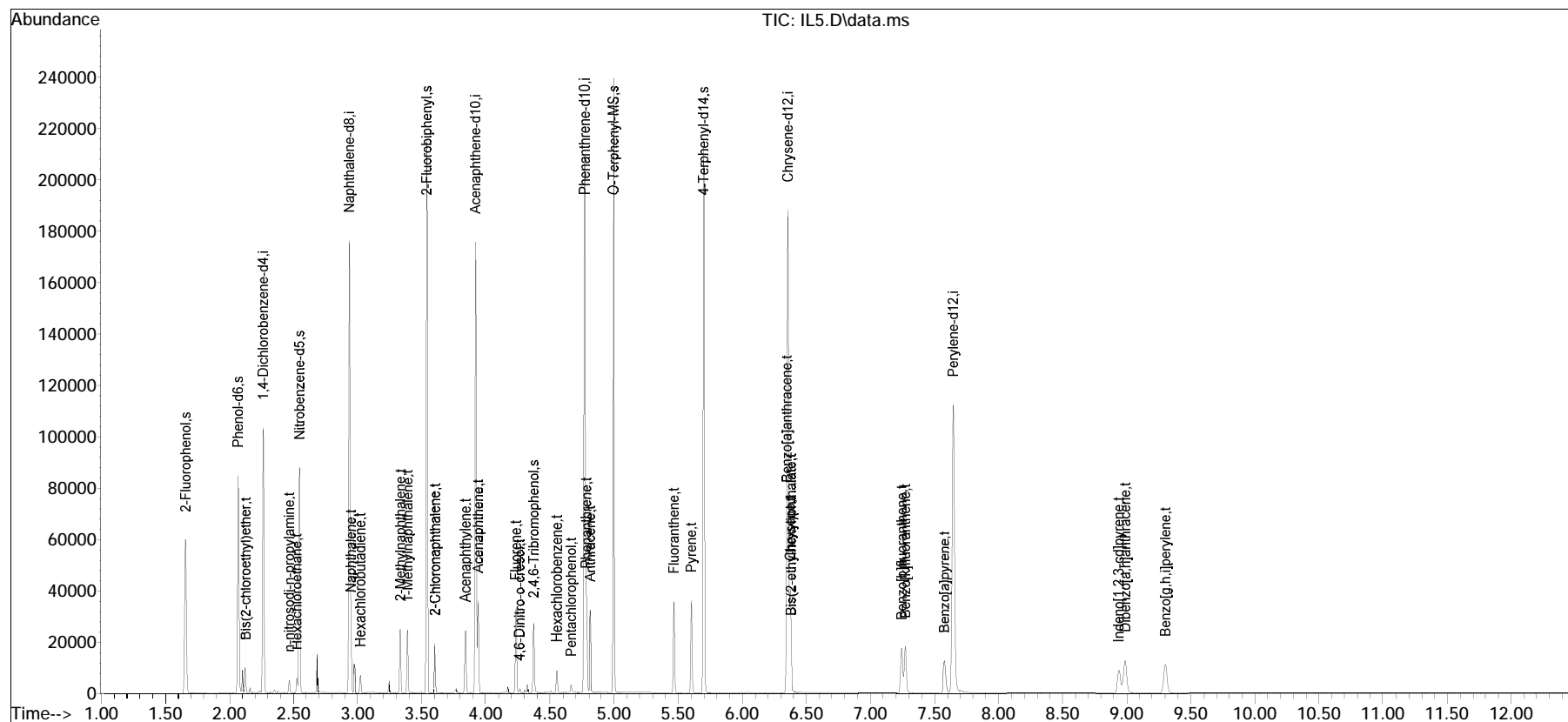
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL5.D
 Acq On : 22 Feb 2023 12:33 pm
 Operator : SV120:jjw
 Sample : IL5,32,, 0.5/5.0 Lot#9886
 Misc : WG1749940,,ical
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 01 11:44:13 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:44:40 2023
 Response via : Initial Calibration

Sub List : Default - All compounds listed cal\IL8.D•



Manual Integration Report

Data Path : I:\8270SIM\sv120\230222STiQMethod : simtech230222-sv120.M
Data File : IL5.D Operator : SV120:jjw
Date Inj'd : 2/22/2023 12:33 pm Instrument : SV120
Sample : IL5,32,, 0.5/5.0 Lot#9886 Quant Date : 3/1/2023 11:44 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL4.D
 Acq On : 22 Feb 2023 12:50 pm
 Operator : SV120:jjw
 Sample : IL4,32,, 0.2/2.0 Lot#9887
 Misc : WG1749940,,ical
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 01 12:12:12 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 12:00:45 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.261	152	25466	4.000	ug/ml	0.00
Standard Area 1 = 24853			Recovery =	102.47%		
8) Naphthalene-d8	2.934	136	94624	4.000	ug/ml	0.00
Standard Area 1 = 93308			Recovery =	101.41%		
16) Acenaphthene-d10	3.921	164	48602	4.000	ug/ml	0.00
Standard Area 1 = 50201			Recovery =	96.81%		
20) Phenanthrene-d10	4.770	188	105778	4.000	ug/ml	0.00
Standard Area 1 = 107790			Recovery =	98.13%		
30) Chrysene-d12	6.355	240	90211	4.000	ug/ml	0.00
Standard Area 1 = 101124			Recovery =	89.21%		
34) Perylene-d12	7.643	264	97786	4.000	ug/ml	0.00
Standard Area 1 = 114021			Recovery =	85.76%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.655	112	13099	1.985	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	3.97%#		
3) Phenol-d6	2.066	99	16113	1.976	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	3.95%#		
7) Nitrobenzene-d5	2.546	82	12106	1.882	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	7.53%#		
13) 2-Fluorobiphenyl	3.539	172	37776	2.020	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	8.08%#		
19) 2,4,6-Tribromophenol	4.371	330	3637	1.689	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	3.38%#		
26) O-Terphenyl-MS	4.995	230	29246	1.998	ug/ml	0.00
Spiked Amount 20.000	Range 40 - 140		Recovery =	9.99%#		
29) 4-Terphenyl-d14	5.696	244	42960	1.980	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	7.92%#		
Target Compounds						
4) Hexachloroethane	2.525	117	614	0.200	ug/ml	94
5) Bis(2-chloroethyl)ether	2.122	93	1408	0.204	ug/ml	93
6) n-nitrosodi-n-propylamine	2.462	70	888	0.192	ug/ml	98
9) Naphthalene	2.944	128	5007	0.206	ug/ml	100
10) Hexachlorobutadiene	3.019	225	939	0.206	ug/ml	100
11) 2-Methylnaphthalene	3.331	142	3083	0.202	ug/ml	99
12) 1-Methylnaphthalene	3.386	142	3001	0.200	ug/ml	99
14) 2-Chloronaphthalene	3.603	162	3244	0.200	ug/ml	99
15) Acenaphthylene	3.840	152	4368	0.188	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL4.D
 Acq On : 22 Feb 2023 12:50 pm
 Operator : SV120:jjw
 Sample : IL4,32,, 0.2/2.0 Lot#9887
 Misc : WG1749940,,ical
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 01 12:12:12 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 12:00:45 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthene	3.940	153	3406	0.206	ug/ml	96
18) Fluorene	4.234	166	3442	0.197	ug/ml	99
21) 4,6-Dinitro-o-cresol	4.262	198	163	0.238	ug/ml	91
22) Hexachlorobenzene	4.553	284	1334	0.211	ug/ml	99
23) Pentachlorophenol	4.667	266	279	0.185	ug/ml	100
24) Phenanthrene	4.783	178	6023	0.207	ug/ml	98
25) Anthracene	4.812	178	5376	0.197	ug/ml	99
27) Fluoranthene	5.468	202	6131	0.196	ug/ml	97
28) Pyrene	5.600	202	6331	0.195	ug/ml	99
31) Benzo[a]anthracene	6.347	228	5761	0.196	ug/ml	98
32) Chrysene	6.373	228	6385	0.207	ug/ml	99
33) Bis(2-ethylhexyl)phtha...	6.381	149	2005	0.204	ug/ml	99
35) Benzo[b]fluoranthene	7.247	252	5835	0.196	ug/ml	100
36) Benzo[k]fluoranthene	7.273	252	5523	0.190	ug/ml	100
37) Benzo[a]pyrene	7.577	252	4541	0.188	ug/ml	99
38) Indeno[1,2,3-cd]pyrene	8.943	276	4418	0.197	ug/ml	94
39) Dibenzo[a,h]anthracene	8.986	278	4972M3	0.193	ug/ml	
40) Benzo[g,h,i]perylene	9.300	276	5766	0.203	ug/ml	94

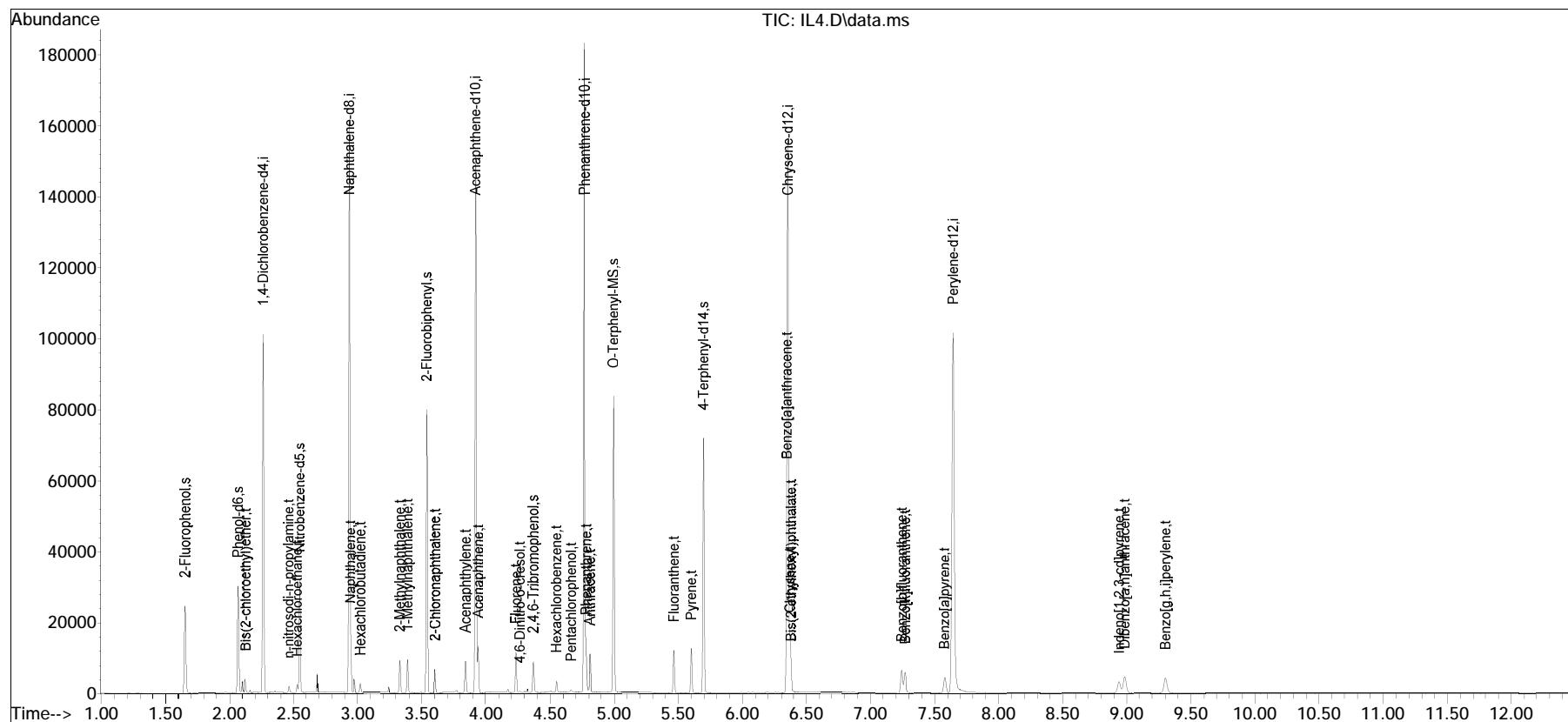
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL4.D
 Acq On : 22 Feb 2023 12:50 pm
 Operator : SV120:jjw
 Sample : IL4,32,, 0.2/2.0 Lot#9887
 Misc : WG1749940,,ical
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 01 12:12:12 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 12:00:45 2023
 Response via : Initial Calibration

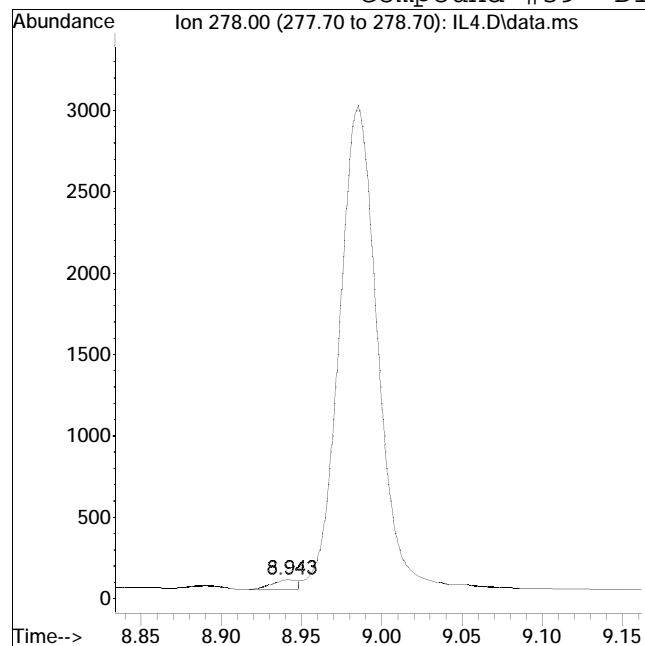
Sub List : Default - All compounds listed cal\IL8.D•



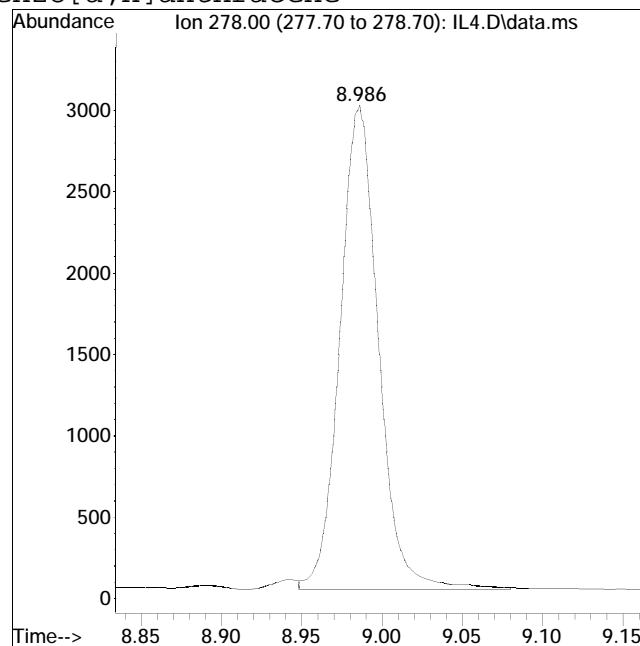
Manual Integration Report

Data Path : I:\8270SIM\sv120\230222STIQMethod : simtech230222-sv120.M
Data File : IL4.D Operator : SV120:jjw
Date Inj'd : 2/22/2023 12:50 pm Instrument : SV120
Sample : IL4,32,, 0.2/2.0 Lot#9887 Quant Date : 3/1/2023 12:00 pm

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 73



Manual Peak Response = 4972 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL3.D
 Acq On : 22 Feb 2023 01:06 pm
 Operator : SV120:jjw
 Sample : IL3,32,, 0.1/1.0 Lot#9888
 Misc : WG1749940,,ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 01 12:00:11 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 12:00:36 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.261	152	29170	4.000	ug/ml	0.00
Standard Area 1 = 24853			Recovery =	117.37%		
8) Naphthalene-d8	2.934	136	108856	4.000	ug/ml	0.00
Standard Area 1 = 93308			Recovery =	116.66%		
16) Acenaphthene-d10	3.921	164	57066	4.000	ug/ml	0.00
Standard Area 1 = 50201			Recovery =	113.68%		
20) Phenanthrene-d10	4.770	188	128347	4.000	ug/ml	0.00
Standard Area 1 = 107790			Recovery =	119.07%		
30) Chrysene-d12	6.355	240	111016	4.000	ug/ml	0.00
Standard Area 1 = 101124			Recovery =	109.78%		
34) Perylene-d12	7.643	264	118027	4.000	ug/ml	0.00
Standard Area 1 = 114021			Recovery =	103.51%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.653	112	7406	0.980	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	1.96%#		
3) Phenol-d6	2.064	99	9226	0.988	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	1.98%#		
7) Nitrobenzene-d5	2.546	82	6866	0.932	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	3.73%#		
13) 2-Fluorobiphenyl	3.539	172	22364	1.039	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	4.16%#		
19) 2,4,6-Tribromophenol	4.372	330	2106	0.833	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	1.67%#		
26) O-Terphenyl-MS	4.995	230	17947	1.011	ug/ml	0.00
Spiked Amount 20.000	Range 40 - 140		Recovery =	5.05%#		
29) 4-Terphenyl-d14	5.695	244	26411	1.003	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	4.01%#		
Target Compounds						
4) Hexachloroethane	2.525	117	348	0.099	ug/ml	96
5) Bis(2-chloroethyl)ether	2.122	93	786	0.099	ug/ml	92
6) n-nitrosodi-n-propylamine	2.462	70	500	0.094	ug/ml	99
9) Naphthalene	2.946	128	2806	0.100	ug/ml	99
10) Hexachlorobutadiene	3.019	225	522	0.099	ug/ml	99
11) 2-Methylnaphthalene	3.331	142	1723	0.098	ug/ml	100
12) 1-Methylnaphthalene	3.386	142	1684	0.098	ug/ml	98
14) 2-Chloronaphthalene	3.603	162	1819	0.098	ug/ml	99
15) Acenaphthylene	3.840	152	2448	0.091	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL3.D
 Acq On : 22 Feb 2023 01:06 pm
 Operator : SV120:jjw
 Sample : IL3,32,, 0.1/1.0 Lot#9888
 Misc : WG1749940,,ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 01 12:00:11 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 12:00:36 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthene	3.940	153	1945	0.100	ug/ml	95
18) Fluorene	4.234	166	1983	0.097	ug/ml	99
21) 4,6-Dinitro-o-cresol	4.262	198	76	0.162	ug/ml#	81
22) Hexachlorobenzene	4.553	284	758	0.099	ug/ml	99
23) Pentachlorophenol	4.664	266	135	0.124	ug/ml	98
24) Phenanthrene	4.783	178	3595	0.102	ug/ml	96
25) Anthracene	4.812	178	3141	0.095	ug/ml	100
27) Fluoranthene	5.468	202	3595	0.095	ug/ml	98
28) Pyrene	5.600	202	3721	0.094	ug/ml	98
31) Benzo[a]anthracene	6.347	228	3579	0.099	ug/ml	97
32) Chrysene	6.373	228	3856	0.102	ug/ml	99
33) Bis(2-ethylhexyl)phtha...	6.378	149	1191	0.130	ug/ml	100
35) Benzo[b]fluoranthene	7.244	252	3340	0.093	ug/ml	100
36) Benzo[k]fluoranthene	7.270	252	3150	0.090	ug/ml	100
37) Benzo[a]pyrene	7.574	252	2589	0.089	ug/ml	99
38) Indeno[1,2,3-cd]pyrene	8.940	276	2489	0.092	ug/ml	94
39) Dibenzo[a,h]anthracene	8.983	278	2710M6	0.087	ug/ml	
40) Benzo[g,h,i]perylene	9.300	276	3164	0.092	ug/ml	93

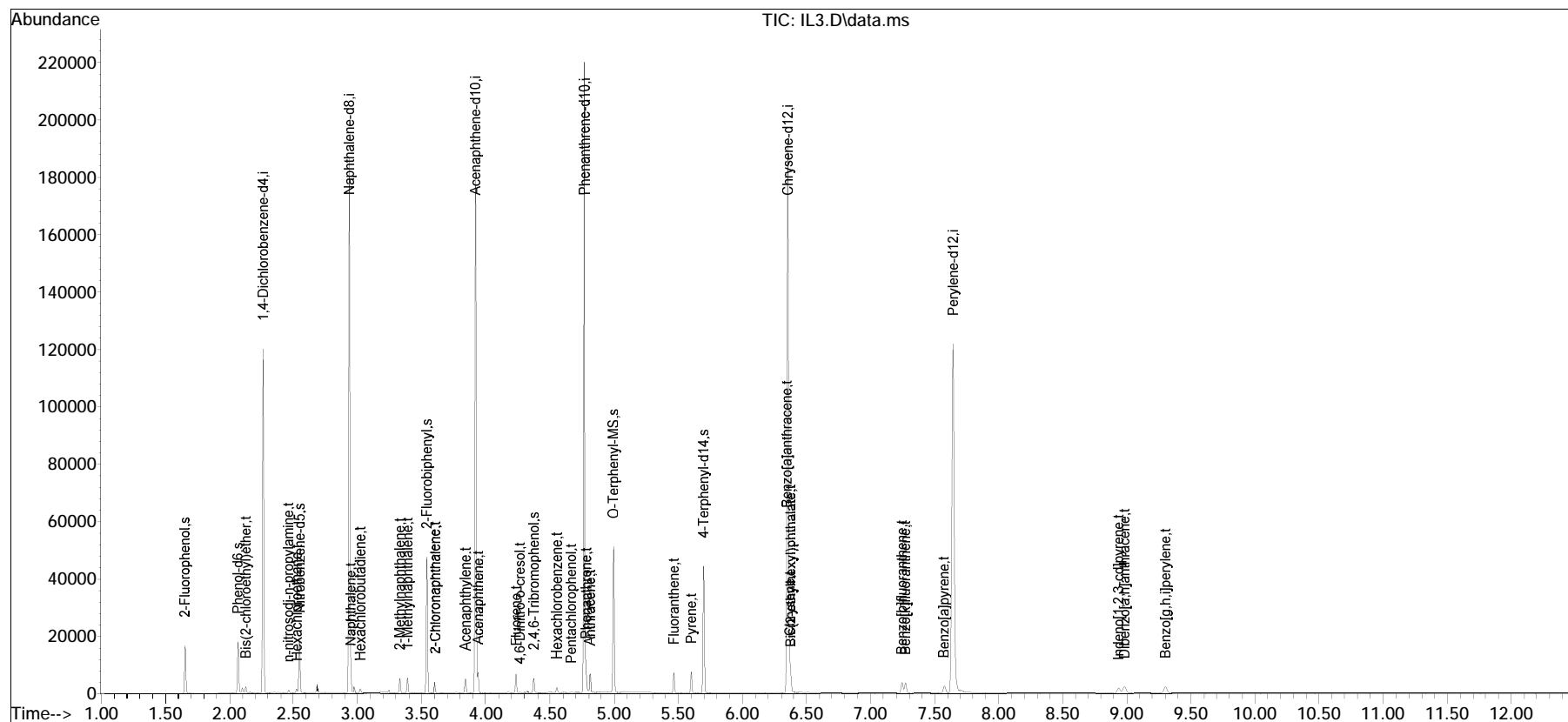
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL3.D
 Acq On : 22 Feb 2023 01:06 pm
 Operator : SV120:jjw
 Sample : IL3,32,, 0.1/1.0 Lot#9888
 Misc : WG1749940,,ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 01 12:00:11 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 12:00:36 2023
 Response via : Initial Calibration

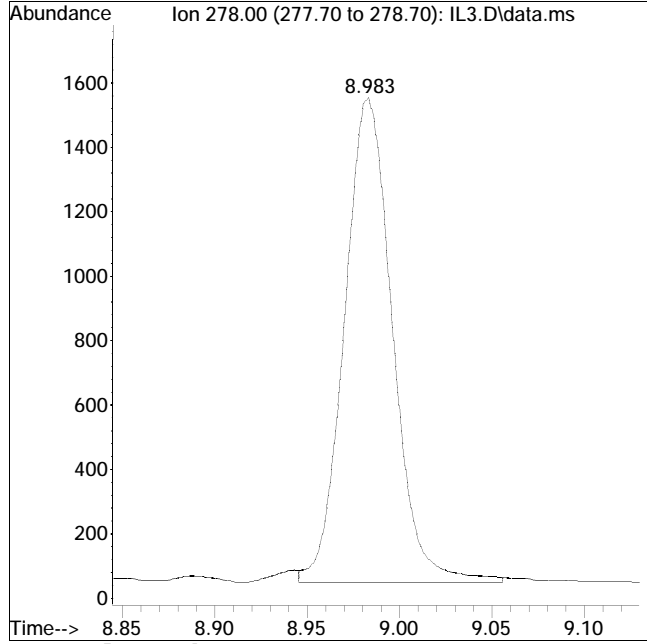
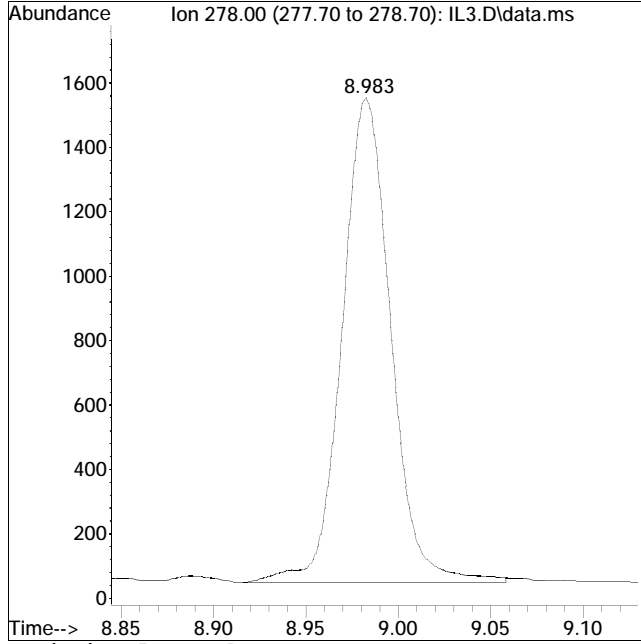
Sub List : Default - All compounds listed cal\IL8.D•



Manual Integration Report

Data Path : I:\8270SIM\sv120\230222STIQMethod : simtech230222-sv120.M
Data File : IL3.D Operator : SV120:jjw
Date Inj'd : 2/22/2023 1:06 pm Instrument : SV120
Sample : IL3,32,, 0.1/1.0 Lot#9888 Quant Date : 3/1/2023 12:00 pm

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 2748

Manual Peak Response = 2710 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL2.D
 Acq On : 22 Feb 2023 01:23 pm
 Operator : SV120:jjw
 Sample : IL2,32,, 0.05/0.5 Lot#9889
 Misc : WG1749940,,ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 01 12:10:53 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 12:04:27 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.264	152	29932	4.000	ug/ml	0.00
Standard Area 1 = 24853			Recovery =	120.44%		
8) Naphthalene-d8	2.934	136	112421	4.000	ug/ml	0.00
Standard Area 1 = 93308			Recovery =	120.48%		
16) Acenaphthene-d10	3.921	164	60218	4.000	ug/ml	0.00
Standard Area 1 = 50201			Recovery =	119.95%		
20) Phenanthrene-d10	4.770	188	140649	4.000	ug/ml	0.00
Standard Area 1 = 107790			Recovery =	130.48%		
30) Chrysene-d12	6.358	240	119902	4.000	ug/ml	0.00
Standard Area 1 = 101124			Recovery =	118.57%		
34) Perylene-d12	7.643	264	119496	4.000	ug/ml	0.00
Standard Area 1 = 114021			Recovery =	104.80%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.660	112	3521	0.454	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	0.91%#		
3) Phenol-d6	2.066	99	4341	0.453	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	0.91%#		
7) Nitrobenzene-d5	2.546	82	3242	0.429	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	1.72%#		
13) 2-Fluorobiphenyl	3.539	172	11142	0.501	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	2.00%#		
19) 2,4,6-Tribromophenol	4.371	330	1003	0.588	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	1.18%#		
26) O-Terphenyl-MS	4.992	230	9534	0.490	ug/ml	0.00
Spiked Amount 20.000	Range 40 - 140		Recovery =	2.45%#		
29) 4-Terphenyl-d14	5.695	244	13829	0.479	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	1.92%#		
Target Compounds						
4) Hexachloroethane	2.528	117	181	0.050	ug/ml	97
5) Bis(2-chloroethyl)ether	2.125	93	393	0.048	ug/ml	94
6) n-nitrosodi-n-propylamine	2.465	70	253	0.046	ug/ml	99
9) Naphthalene	2.947	128	1461	0.050	ug/ml	99
10) Hexachlorobutadiene	3.019	225	273	0.050	ug/ml	100
11) 2-Methylnaphthalene	3.331	142	893	0.049	ug/ml	100
12) 1-Methylnaphthalene	3.386	142	871	0.049	ug/ml	99
14) 2-Chloronaphthalene	3.606	162	941	0.049	ug/ml	99
15) Acenaphthylene	3.840	152	1275	0.046	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL2.D
 Acq On : 22 Feb 2023 01:23 pm
 Operator : SV120:jjw
 Sample : IL2,32,, 0.05/0.5 Lot#9889
 Misc : WG1749940,,ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 01 12:10:53 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 12:04:27 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthene	3.940	153	1037	0.051	ug/ml	94
18) Fluorene	4.233	166	1073	0.050	ug/ml	99
21) 4,6-Dinitro-o-cresol	4.265	198	36	0.135	ug/ml	88
22) Hexachlorobenzene	4.553	284	414	0.049	ug/ml	94
23) Pentachlorophenol	4.667	266	60M6	0.100	ug/ml	
24) Phenanthrene	4.782	178	2019M3	0.052	ug/ml	
25) Anthracene	4.812	178	1732	0.048	ug/ml	99
27) Fluoranthene	5.468	202	2002	0.048	ug/ml	97
28) Pyrene	5.600	202	2034	0.047	ug/ml	100
31) Benzo[a]anthracene	6.350	228	2092	0.054	ug/ml	94
32) Chrysene	6.373	228	2104	0.051	ug/ml	97
33) Bis(2-ethylhexyl)phtha...	6.381	149	669	0.097	ug/ml	99
35) Benzo[b]fluoranthene	7.247	252	1710	0.047	ug/ml	99
36) Benzo[k]fluoranthene	7.273	252	1595	0.045	ug/ml	100
37) Benzo[a]pyrene	7.577	252	1279	0.043	ug/ml	99
38) Indeno[1,2,3-cd]pyrene	8.943	276	1198	0.044	ug/ml	94
39) Dibenzo[a,h]anthracene	8.983	278	1282	0.041	ug/ml	92
40) Benzo[g,h,i]perylene	9.303	276	1517	0.044	ug/ml	93

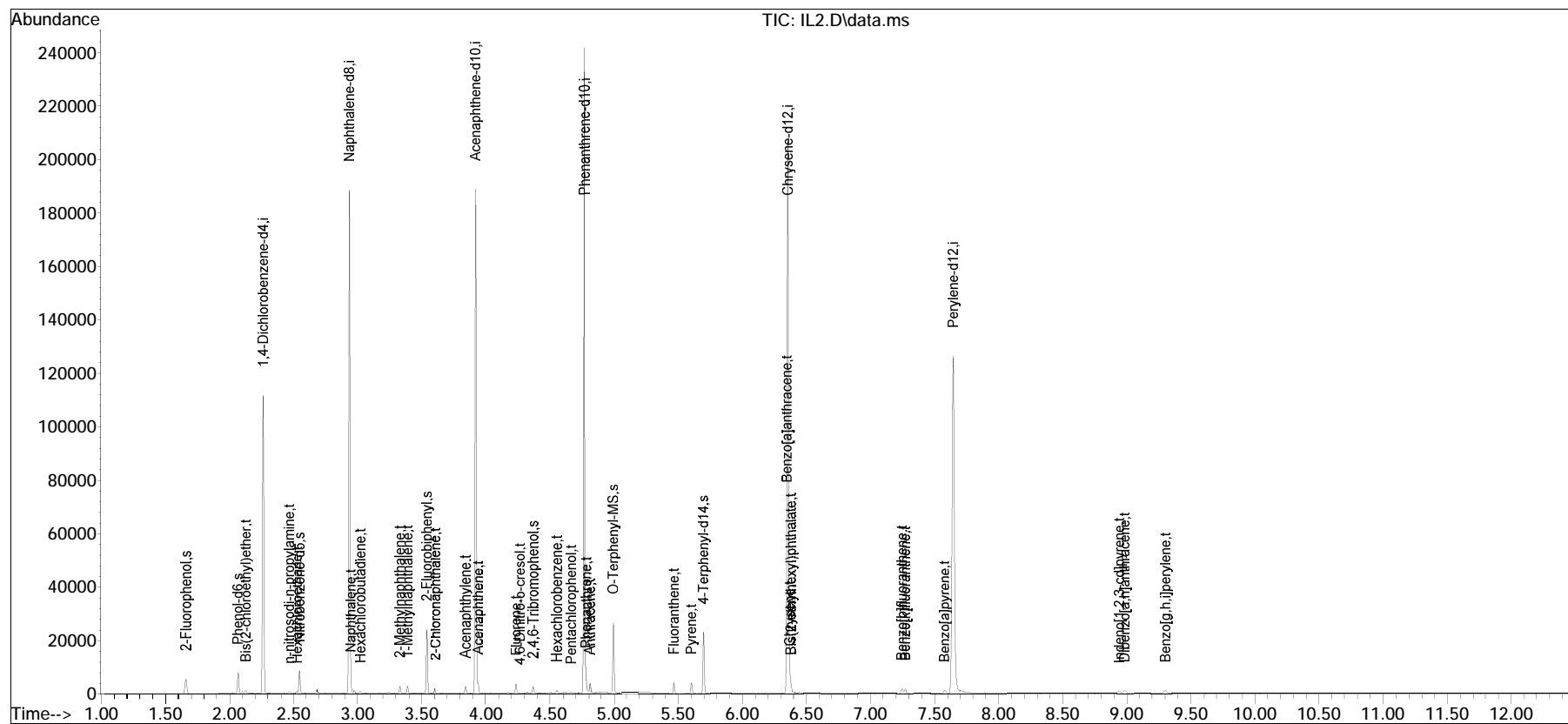
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL2.D
 Acq On : 22 Feb 2023 01:23 pm
 Operator : SV120:jjw
 Sample : IL2,32,, 0.05/0.5 Lot#9889
 Misc : WG1749940,,ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 01 12:10:53 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 12:04:27 2023
 Response via : Initial Calibration

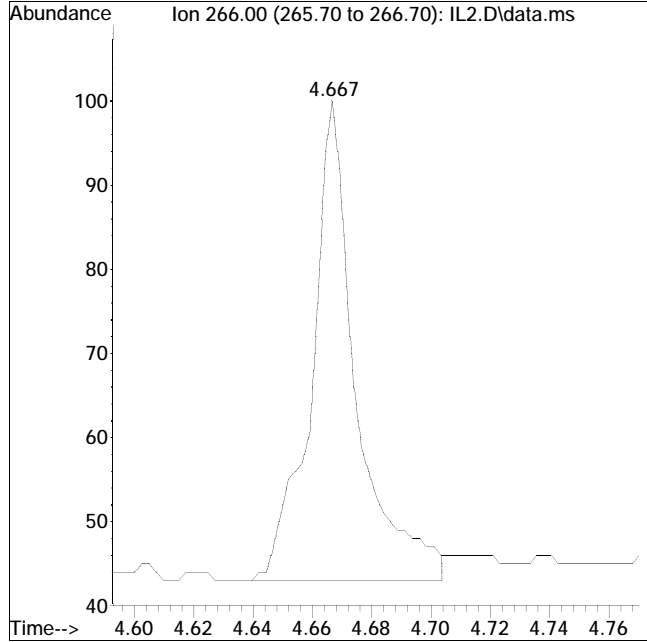
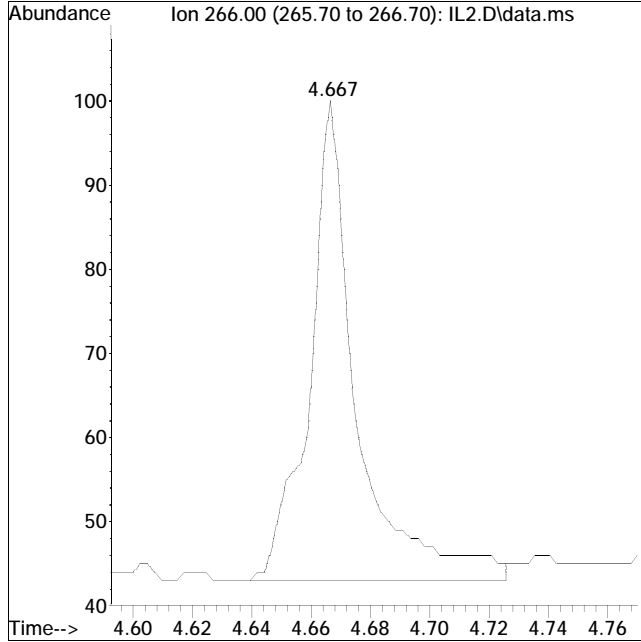
Sub List : Default - All compounds listed cal\IL8.D•



Manual Integration Report

Data Path : I:\8270SIM\sv120\230222STiQMethod : simtech230222-sv120.M
Data File : IL2.D Operator : SV120:jjw
Date Inj'd : 2/22/2023 1:23 pm Instrument : SV120
Sample : IL2,32,, 0.05/0.5 Lot#9889Quant Date : 3/1/2023 12:04 pm

Compound #23: Pentachlorophenol



Original Peak Response = 63

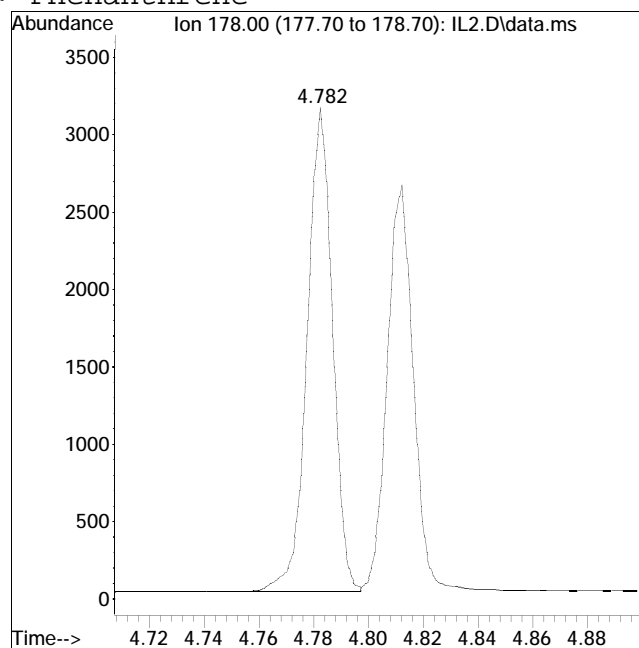
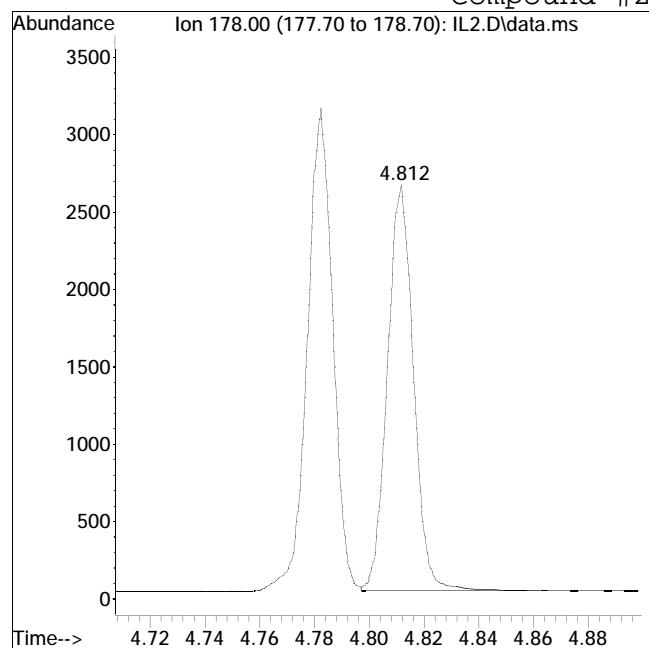
Manual Peak Response = 60 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\230222STiQMethod : simtech230222-sv120.M
Data File : IL2.D Operator : SV120:jjw
Date Inj'd : 2/22/2023 1:23 pm Instrument : SV120
Sample : IL2,32,, 0.05/0.5 Lot#9889Quant Date : 3/1/2023 12:04 pm

Compound #24: Phenanthrene



Original Peak Response = 1732

Manual Peak Response = 2019 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL1.D
 Acq On : 22 Feb 2023 01:39 pm
 Operator : SV120:jjw
 Sample : IL1,32,, 0.02/0.2 Lot#9890
 Misc : WG1749940,,ical
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 01 11:43:25 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:43:50 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.261	152	25611	4.000	ug/ml	0.00
Standard Area 1 = 24853			Recovery =	103.05%		
8) Naphthalene-d8	2.933	136	94009	4.000	ug/ml	0.00
Standard Area 1 = 93308			Recovery =	100.75%		
16) Acenaphthene-d10	3.921	164	48100	4.000	ug/ml	0.00
Standard Area 1 = 50201			Recovery =	95.81%		
20) Phenanthrene-d10	4.770	188	107667	4.000	ug/ml	0.00
Standard Area 1 = 107790			Recovery =	99.89%		
30) Chrysene-d12	6.358	240	101783	4.000	ug/ml	0.00
Standard Area 1 = 101124			Recovery =	100.65%		
34) Perylene-d12	7.646	264	109266	4.000	ug/ml	0.00
Standard Area 1 = 114021			Recovery =	95.83%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.653	112	1209	0.182	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	0.36%#		
3) Phenol-d6	2.066	99	1507	0.184	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	0.37%#		
7) Nitrobenzene-d5	2.545	82	1082	0.167	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	0.67%#		
13) 2-Fluorobiphenyl	3.539	172	3645	0.196	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	0.78%#		
19) 2,4,6-Tribromophenol	4.371	330	294	0.138	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	0.28%#		
26) O-Terphenyl-MS	4.995	230	2841	0.191	ug/ml	0.00
Spiked Amount 20.000	Range 40 - 140		Recovery =	0.95%#		
29) 4-Terphenyl-d14	5.698	244	4341	0.197	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	0.79%#		
Target Compounds						
4) Hexachloroethane	2.525	117	61	0.020	ug/ml	91
5) Bis(2-chloroethyl)ether	2.122	93	132	0.019	ug/ml	92
6) n-nitrosodi-n-propylamine	2.465	70	80	0.017	ug/ml	94
9) Naphthalene	2.946	128	508	0.021	ug/ml	96
10) Hexachlorobutadiene	3.019	225	93	0.021	ug/ml	99
11) 2-Methylnaphthalene	3.331	142	298	0.020	ug/ml	98
12) 1-Methylnaphthalene	3.386	142	296	0.020	ug/ml	99
14) 2-Chloronaphthalene	3.603	162	314	0.020	ug/ml	99
15) Acenaphthylene	3.840	152	414	0.018	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL1.D
 Acq On : 22 Feb 2023 01:39 pm
 Operator : SV120:jjw
 Sample : IL1,32,, 0.02/0.2 Lot#9890
 Misc : WG1749940,,ical
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 01 11:43:25 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:43:50 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthene	3.940	153	336M6	0.020	ug/ml	
18) Fluorene	4.234	166	336	0.019	ug/ml	99
21) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
22) Hexachlorobenzene	4.553	284	129	0.020	ug/ml	99
23) Pentachlorophenol	4.667	266	54M1	0.023	ug/ml	
24) Phenanthrene	4.783	178	639M6	0.022	ug/ml	
25) Anthracene	4.812	178	536	0.019	ug/ml	98
27) Fluoranthene	5.468	202	654	0.021	ug/ml	96
28) Pyrene	5.603	202	678	0.021	ug/ml	99
31) Benzo[a]anthracene	6.352	228	887M6	0.027	ug/ml	
32) Chrysene	6.373	228	729	0.021	ug/ml	96
33) Bis(2-ethylhexyl)phtha...	6.381	149	234	0.016	ug/ml	99
35) Benzo[b]fluoranthene	7.247	252	640	0.019	ug/ml	99
36) Benzo[k]fluoranthene	7.273	252	556	0.017	ug/ml	99
37) Benzo[a]pyrene	7.577	252	461	0.017	ug/ml	100
38) Indeno[1,2,3-cd]pyrene	8.940	276	459	0.018	ug/ml	96
39) Dibenzo[a,h]anthracene	8.983	278	486M6	0.017	ug/ml	
40) Benzo[g,h,i]perylene	9.300	276	588	0.019	ug/ml	91

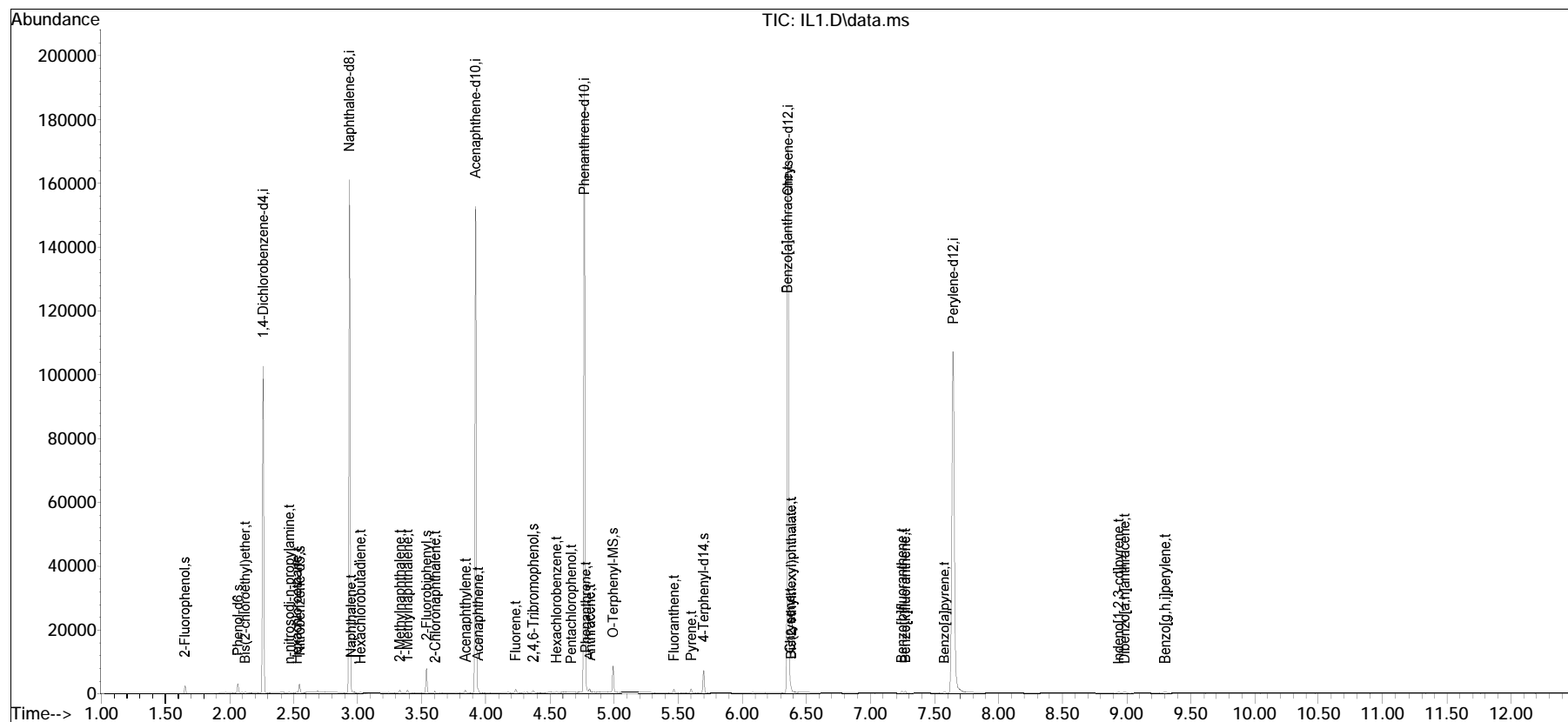
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : IL1.D
 Acq On : 22 Feb 2023 01:39 pm
 Operator : SV120:jjw
 Sample : IL1,32,, 0.02/0.2 Lot#9890
 Misc : WG1749940,,ical
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 01 11:43:25 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 11:43:50 2023
 Response via : Initial Calibration

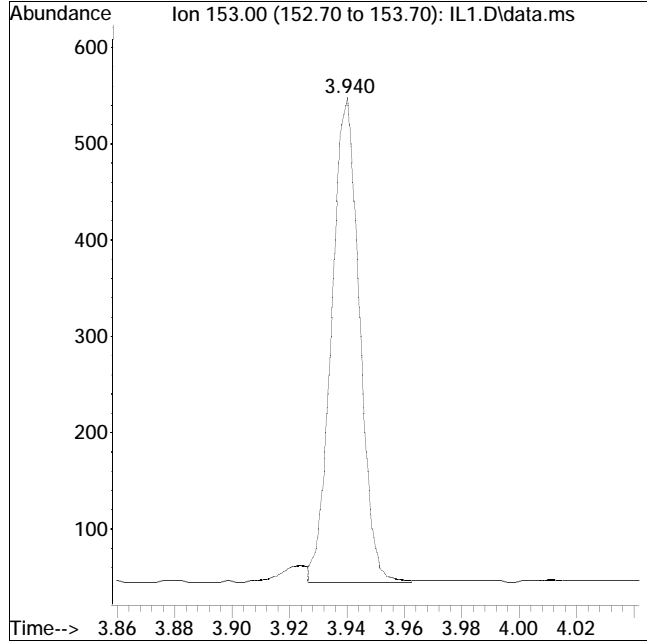
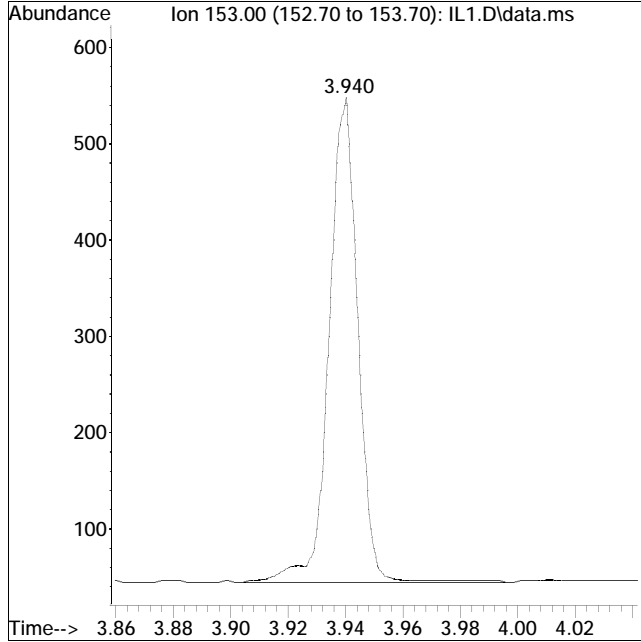
Sub List : Default - All compounds listed cal\IL8.D•



Manual Integration Report

Data Path : I:\8270SIM\sv120\230222STIQMethod : simtech230222-sv120.M
Data File : IL1.D Operator : SV120:jjw
Date Inj'd : 2/22/2023 1:39 pm Instrument : SV120
Sample : IL1,32,, 0.02/0.2 Lot#9890Quant Date : 3/1/2023 11:43 am

Compound #17: Acenaphthene



Original Peak Response = 350

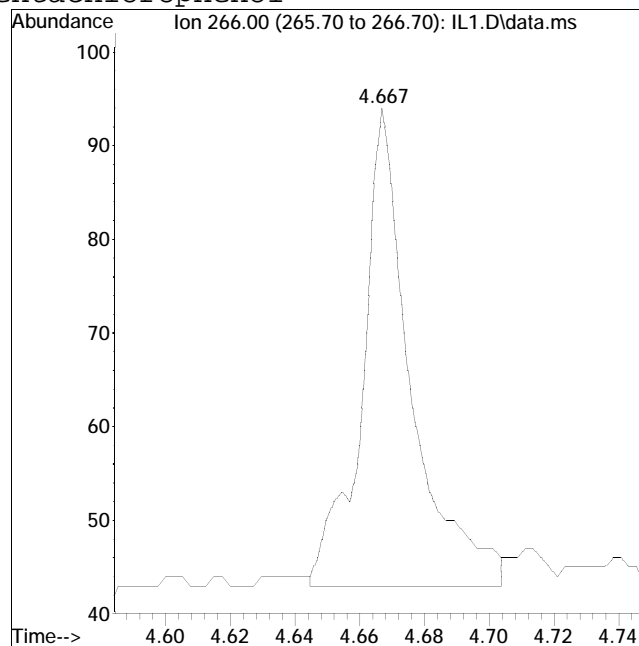
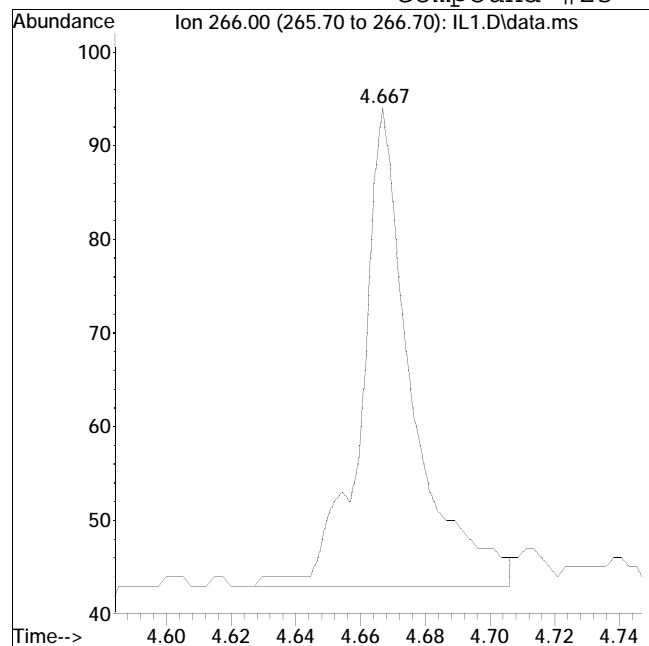
Manual Peak Response = 336 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\230222STiQMethod : simtech230222-sv120.M
Data File : IL1.D Operator : SV120:jjw
Date Inj'd : 2/22/2023 1:39 pm Instrument : SV120
Sample : IL1,32,, 0.02/0.2 Lot#9890Quant Date : 3/1/2023 11:43 am

Compound #23: Pentachlorophenol



Original Peak Response = 55

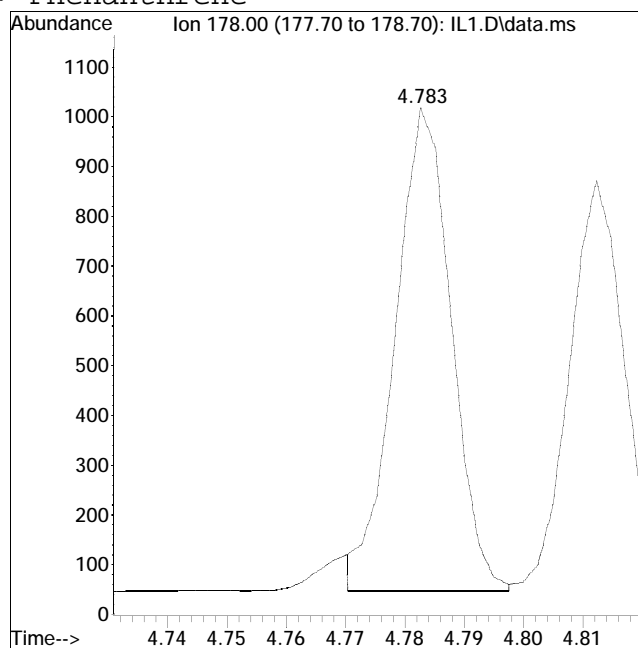
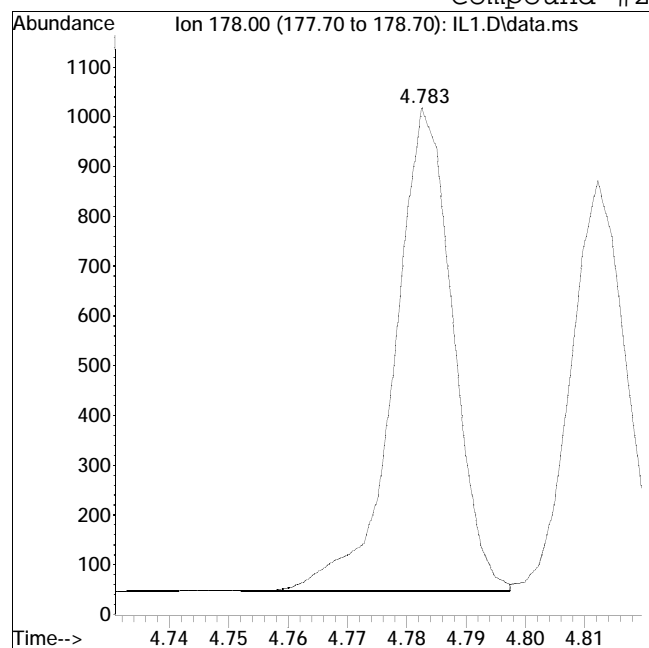
Manual Peak Response = 54 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230222STiQMethod : simtech230222-sv120.M
Data File : IL1.D Operator : SV120:jjw
Date Inj'd : 2/22/2023 1:39 pm Instrument : SV120
Sample : IL1,32,, 0.02/0.2 Lot#9890Quant Date : 3/1/2023 11:43 am

Compound #24: Phenanthrene



Original Peak Response = 669

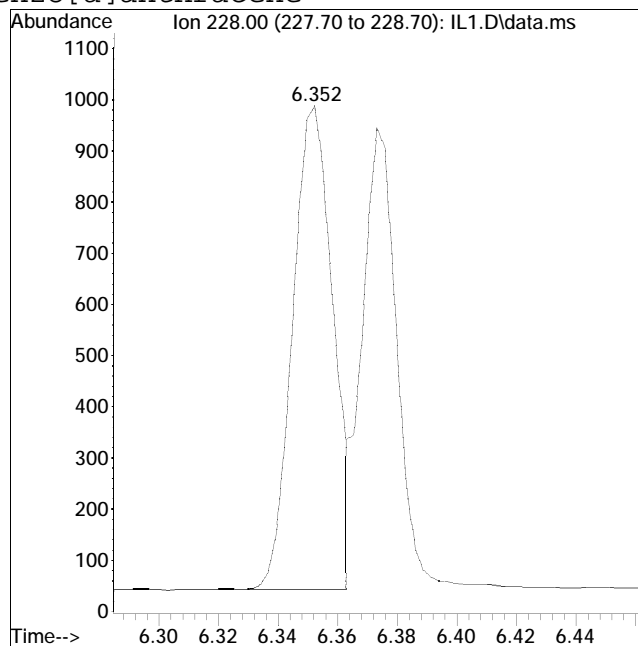
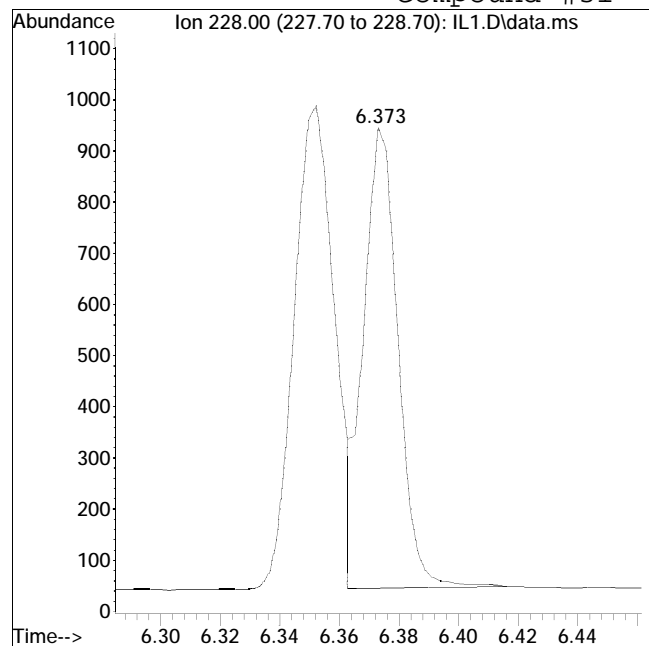
Manual Peak Response = 639 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\230222STiQMethod : simtech230222-sv120.M
Data File : IL1.D Operator : SV120:jjw
Date Inj'd : 2/22/2023 1:39 pm Instrument : SV120
Sample : IL1,32,, 0.02/0.2 Lot#9890Quant Date : 3/1/2023 11:43 am

Compound #31: Benzo[a]anthracene



Original Peak Response = 720

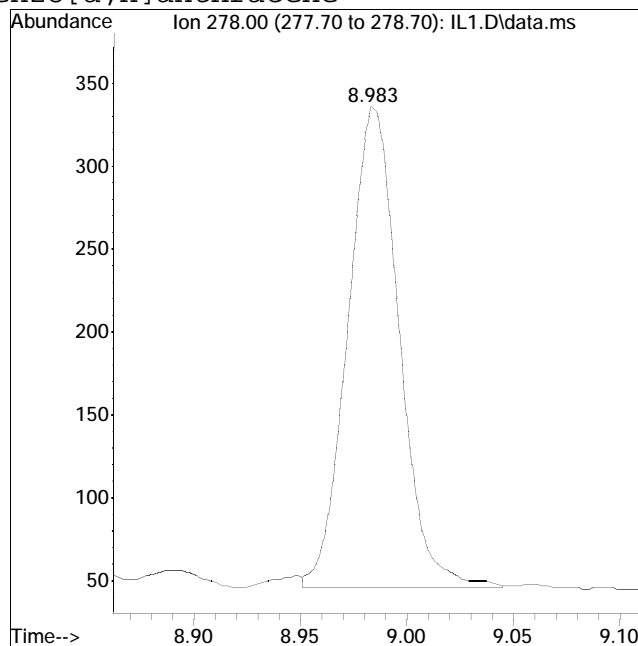
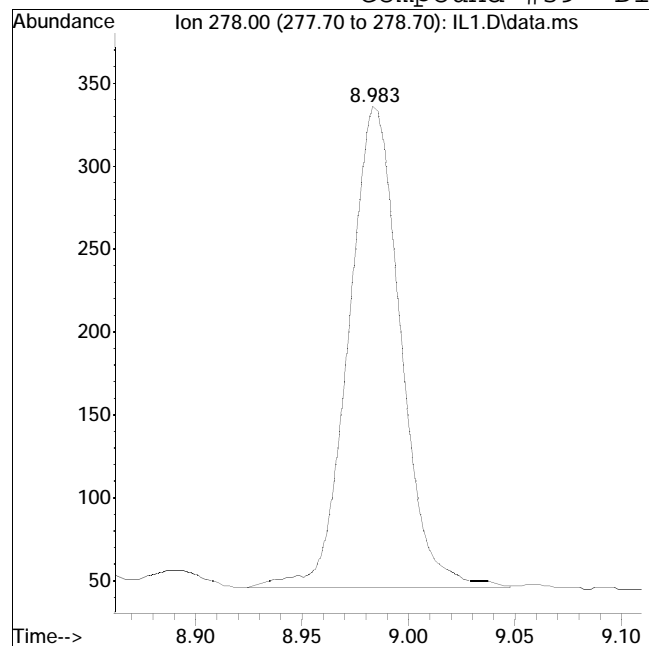
Manual Peak Response = 887 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\230222STiQMethod : simtech230222-sv120.M
Data File : IL1.D Operator : SV120:jjw
Date Inj'd : 2/22/2023 1:39 pm Instrument : SV120
Sample : IL1,32,, 0.02/0.2 Lot#9890 Quant Date : 3/1/2023 11:43 am

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 493

Manual Peak Response = 486 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : ICV.D
 Acq On : 22 Feb 2023 01:56 pm
 Operator : SV120:jjw
 Sample : CQICV,32,, 5.0/30.0 Lot#9893
 Misc : WG1749940,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 01 12:03:54 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 12:04:20 2023
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
2 s	2-Fluorophenol	1.037	1.021	1.5	99	0.00
3 s	Phenol-d6	1.281	1.268	1.0	99	0.00
4 t	Hexachloroethane	0.483	0.469	2.9	100	0.00
5 t	Bis(2-chloroethyl)ether	1.086	1.087	-0.1	104	0.00
6 t	n-nitrosodi-n-propylamine	0.728	0.749	-2.9	103	0.00
7 s	Nitrobenzene-d5	1.010	1.033	-2.3	98	0.00
8 i	Naphthalene-d8	1.000	1.000	0.0	107	0.00
9 t	Naphthalene	1.030	0.997	3.2	104	0.00
10 t	Hexachlorobutadiene	0.193	0.185	4.1	102	0.00
11 t	2-Methylnaphthalene	0.647	0.645	0.3	105	0.00
12 t	1-Methylnaphthalene	0.634	0.632	0.3	105	0.00
13 s	2-Fluorobiphenyl	0.791	0.780	1.4	108	0.00
14 t	2-Chloronaphthalene	0.684	0.688	-0.6	107	0.00
15 t	Acenaphthylene	0.984	1.114	-13.2	114	0.00
16 i	Acenaphthene-d10	1.000	1.000	0.0	112	0.00
17 t	Acenaphthene	1.364	1.300	4.7	106	0.00
18 t	Fluorene	1.436	1.436	0.0	110	0.00
19 s	2,4,6-Tribromophenol	* 30.000	27.994	6.7	102	0.00
20 i	Phenanthrene-d10	1.000	1.000	0.0	113	0.00
21 t	4,6-Dinitro-o-cresol	* 5.000	4.258	14.8	95	0.00
22 t	Hexachlorobenzene	0.239	0.229	4.2	107	0.00
23 t	Pentachlorophenol	* 5.000	4.445	11.1	99	0.00
24 t	Phenanthrene	1.099	1.035	5.8	107	0.00
25 t	Anthracene	1.032	1.027	0.5	107	0.00
26 s	O-Terphenyl-MS	0.553	0.554	-0.2	113	0.00
27 t	Fluoranthene	1.182	1.171	0.9	107	0.00
28 t	Pyrene	1.227	1.225	0.2	107	0.00
29 s	4-Terphenyl-d14	0.821	0.797	2.9	110	0.00
30 i	Chrysene-d12	1.000	1.000	0.0	109	0.00
31 t	Benzo[a]anthracene	1.302	1.265	2.8	106	0.00
32 t	Chrysene	1.368	1.304	4.7	104	0.00
33 t	Bis(2-ethylhexyl)phthalate	* 5.000	4.619	7.6	104	0.00
34 i	Perylene-d12	1.000	1.000	0.0	103	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : ICV.D
 Acq On : 22 Feb 2023 01:56 pm
 Operator : SV120:jjw
 Sample : CQICV,32,, 5.0/30.0 Lot#9893
 Misc : WG1749940,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 01 12:03:54 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 12:04:20 2023
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
35 t	Benzo[b]fluoranthene	1.215	1.232	-1.4	97	0.00
36 t	Benzo[k]fluoranthene	1.188	1.183	0.4	98	0.00
37 t	Benzo[a]pyrene	0.990	1.031	-4.1	98	0.00
38 t	Indeno[1,2,3-cd]pyrene	0.917	1.005	-9.6	106	0.00
39 t	Dibenzo[a,h]anthracene	1.053	1.090	-3.5	96	0.00
40 t	Benzo[g,h,i]perylene	1.163	1.129	2.9	94	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : ICV.D
 Acq On : 22 Feb 2023 01:56 pm
 Operator : SV120:jjw
 Sample : CQICV,32,, 5.0/30.0 Lot#9893
 Misc : WG1749940,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 01 12:03:54 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 12:04:20 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.264	152	25984	4.000	ug/ml	0.00
Standard Area 1 = 24853			Recovery =	104.55%		
8) Naphthalene-d8	2.934	136	100022	4.000	ug/ml	0.00
Standard Area 1 = 93308			Recovery =	107.20%		
16) Acenaphthene-d10	3.924	164	56203	4.000	ug/ml	0.00
Standard Area 1 = 50201			Recovery =	111.96%		
20) Phenanthrene-d10	4.768	188	121547	4.000	ug/ml	0.00
Standard Area 1 = 107790			Recovery =	112.76%		
30) Chrysene-d12	6.358	240	110703	4.000	ug/ml	0.00
Standard Area 1 = 101124			Recovery =	109.47%		
34) Perylene-d12	7.643	264	117834	4.000	ug/ml	0.00
Standard Area 1 = 114021			Recovery =	103.34%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.658	112	198980	29.545	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	59.09%		
3) Phenol-d6	2.066	99	247136	29.704	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	59.41%		
7) Nitrobenzene-d5	2.546	82	201309	30.669	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	122.68%		
13) 2-Fluorobiphenyl	3.539	172	585415	29.612	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	118.45%		
19) 2,4,6-Tribromophenol	4.374	330	80422	27.994	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery =	55.99%		
26) O-Terphenyl-MS	4.997	230	504846	30.021	ug/ml	0.00
Spiked Amount 20.000	Range 40 - 140		Recovery =	150.10%#		
29) 4-Terphenyl-d14	5.698	244	726517	29.135	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	116.54%		
Target Compounds						
4) Hexachloroethane	2.528	117	15235	4.858	ug/ml	94
5) Bis(2-chloroethyl)ether	2.125	93	35307	5.004	ug/ml	93
6) n-nitrosodi-n-propylamine	2.463	70	24324	5.145	ug/ml	97
9) Naphthalene	2.947	128	124706	4.842	ug/ml	100
10) Hexachlorobutadiene	3.020	225	23110	4.790	ug/ml	99
11) 2-Methylnaphthalene	3.331	142	80599	4.984	ug/ml	100
12) 1-Methylnaphthalene	3.387	142	79061	4.989	ug/ml	100
14) 2-Chloronaphthalene	3.606	162	86010	5.028	ug/ml	99
15) Acenaphthylene	3.840	152	139296	5.658	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : ICV.D
 Acq On : 22 Feb 2023 01:56 pm
 Operator : SV120:jjw
 Sample : CQICV,32,, 5.0/30.0 Lot#9893
 Misc : WG1749940,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 01 12:03:54 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 12:04:20 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\230222STical\IL8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthene	3.941	153	91336	4.767	ug/ml	99
18) Fluorene	4.234	166	100857	5.000	ug/ml	100
21) 4,6-Dinitro-o-cresol	4.260	198	6633	4.258	ug/ml	95
22) Hexachlorobenzene	4.554	284	34756	4.786	ug/ml	98
23) Pentachlorophenol	4.665	266	14011	4.445	ug/ml	99
24) Phenanthrene	4.783	178	157181	4.705	ug/ml	100
25) Anthracene	4.810	178	155961	4.973	ug/ml	100
27) Fluoranthene	5.468	202	177941	4.956	ug/ml	97
28) Pyrene	5.601	202	186194	4.993	ug/ml	99
31) Benzo[a]anthracene	6.350	228	175065	4.857	ug/ml	100
32) Chrysene	6.373	228	180418	4.765	ug/ml	99
33) Bis(2-ethylhexyl)phtha...	6.381	149	81914	4.619	ug/ml	99
35) Benzo[b]fluoranthene	7.250	252	181508	5.072	ug/ml	100
36) Benzo[k]fluoranthene	7.273	252	174185	4.979	ug/ml	100
37) Benzo[a]pyrene	7.580	252	151884	5.210	ug/ml	99
38) Indeno[1,2,3-cd]pyrene	8.948	276	147999	5.479	ug/ml	94
39) Dibenzo[a,h]anthracene	8.989	278	160507M6	5.175	ug/ml	
40) Benzo[g,h,i]perylene	9.309	276	166242	4.851	ug/ml	93

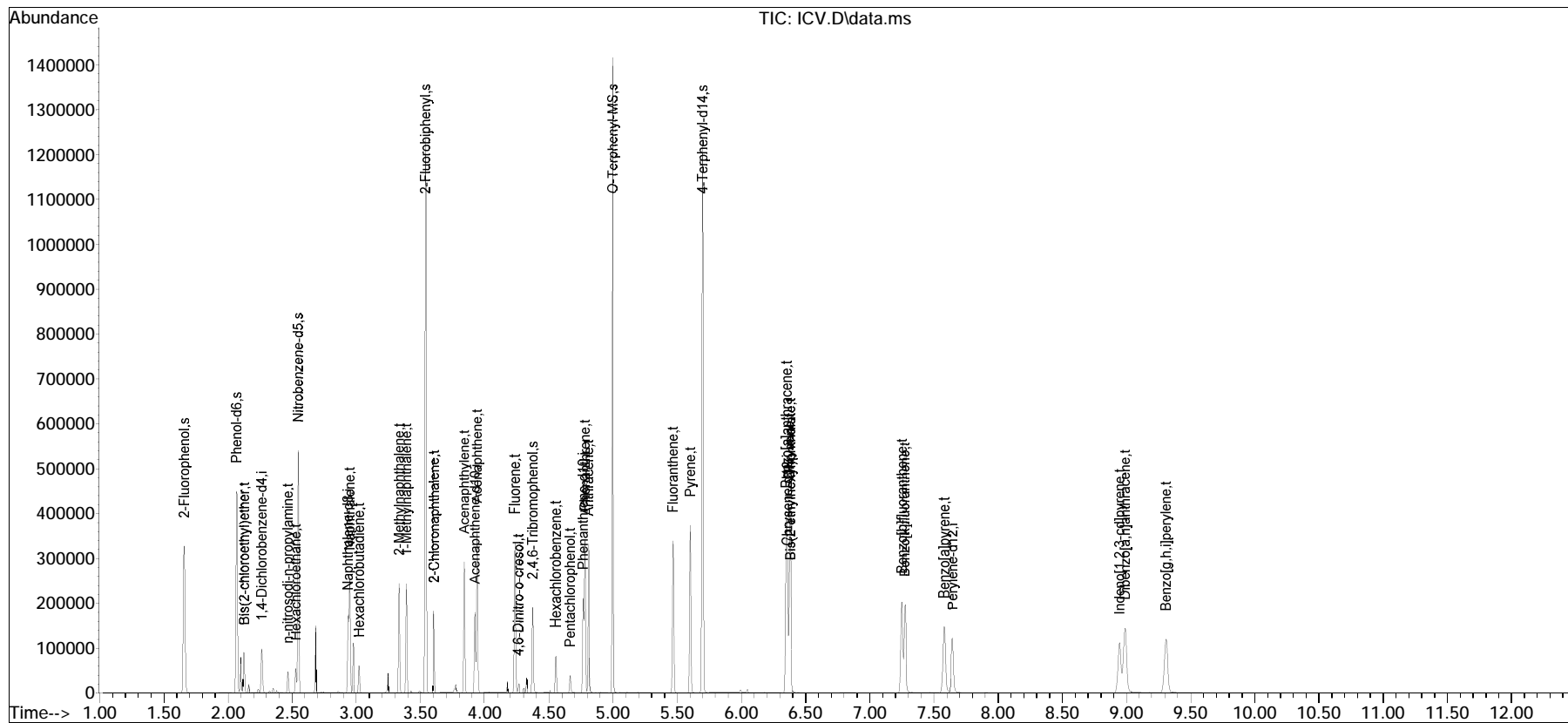
(#) = qualifier out of range (m) = manual integration (+) = signals summed

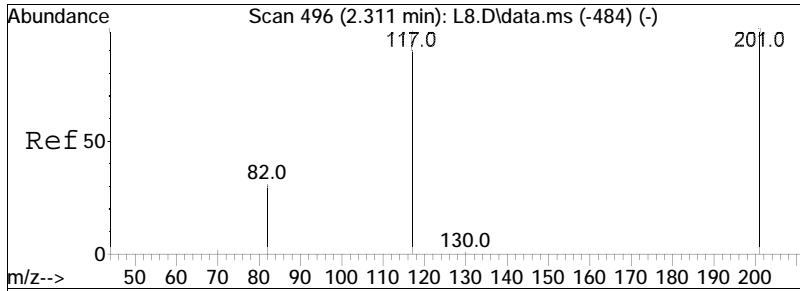
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230222STical\
 Data File : ICV.D
 Acq On : 22 Feb 2023 01:56 pm
 Operator : SV120:jjw
 Sample : CQICV,32,, 5.0/30.0 Lot#9893
 Misc : WG1749940,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 01 12:03:54 2023
 Quant Method : I:\8270SIM\sv120\230222STical\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Mar 01 12:04:20 2023
 Response via : Initial Calibration

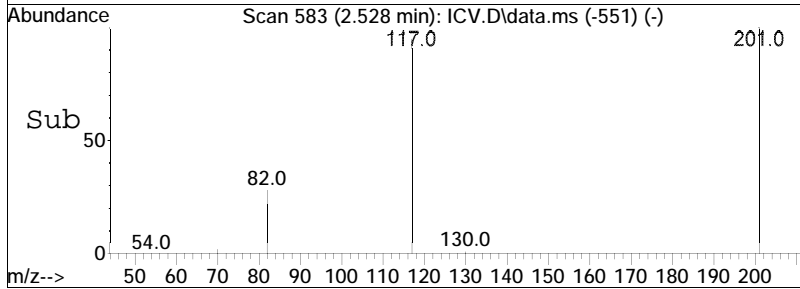
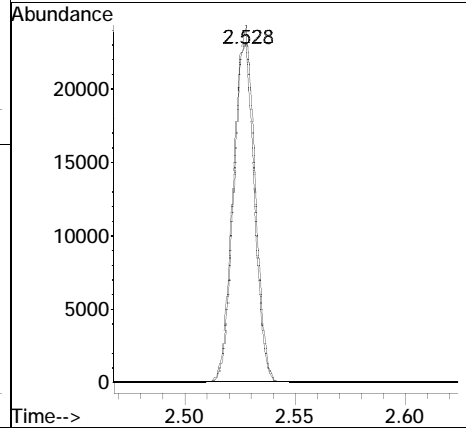
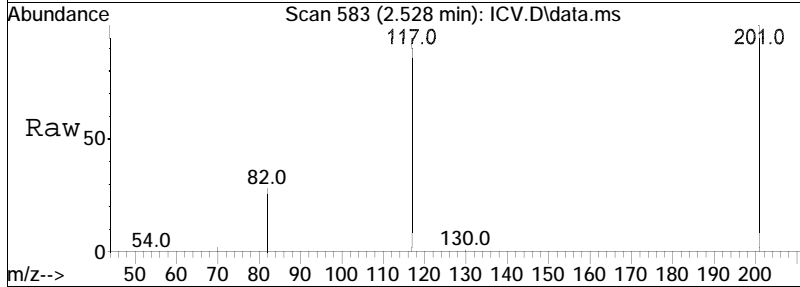
Sub List : Default - All compounds listed cal\IL8.D•

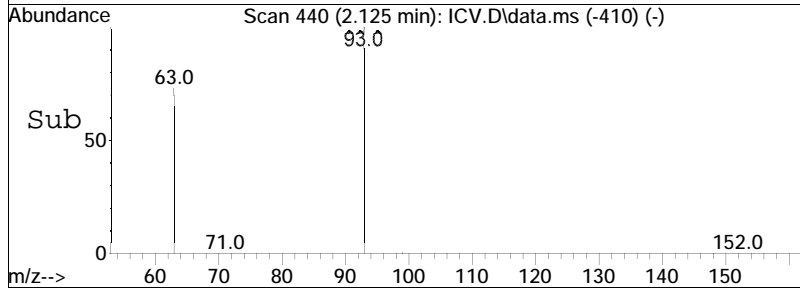
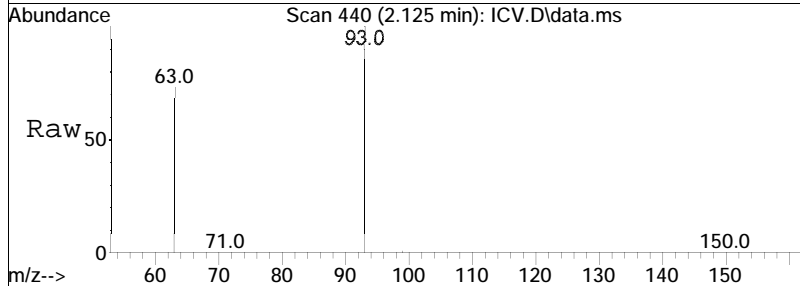
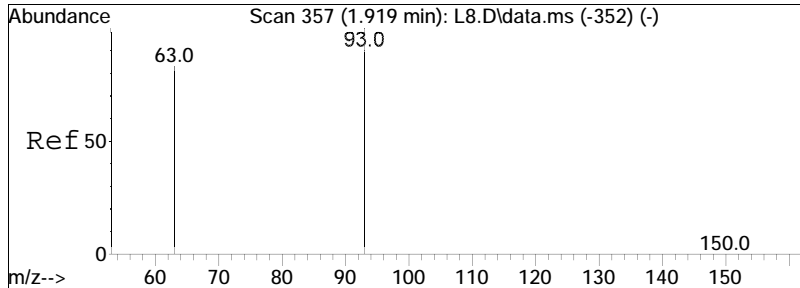




#4
 Hexachloroethane
 Concen: 4.86 ug/ml
 RT: 2.528 min Scan# 583
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

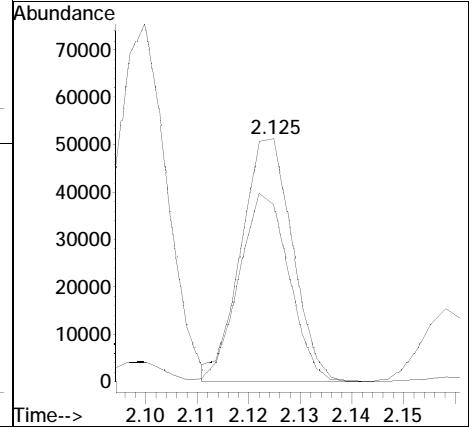
Tgt Ion: 117 Resp: 15235
 Ion Ratio Lower Upper
 117 100
 201 102.7 77.1 115.7

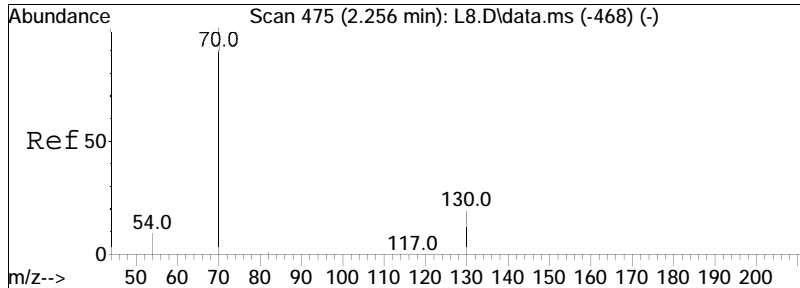




#5
 Bis(2-chloroethyl)ether
 Concen: 5.00 ug/ml
 RT: 2.125 min Scan# 440
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

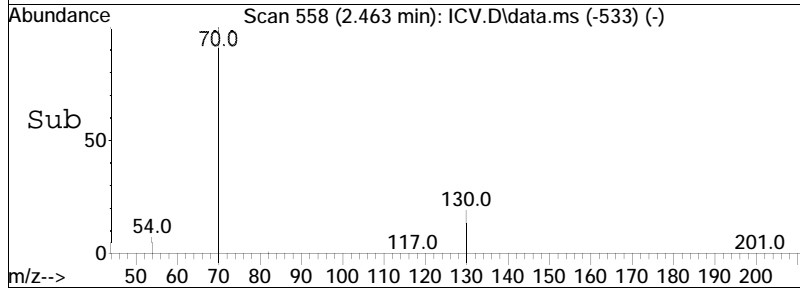
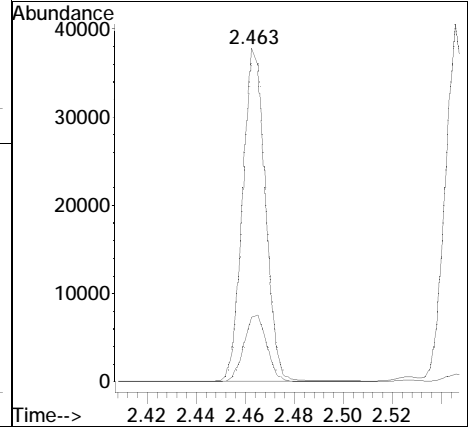
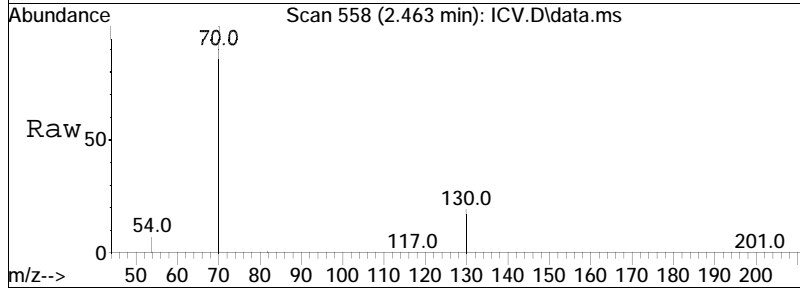
Tgt Ion:	93	Resp:	35307
Ion Ratio	Lower	Upper	
93	100		
63	75.7	65.5	98.3

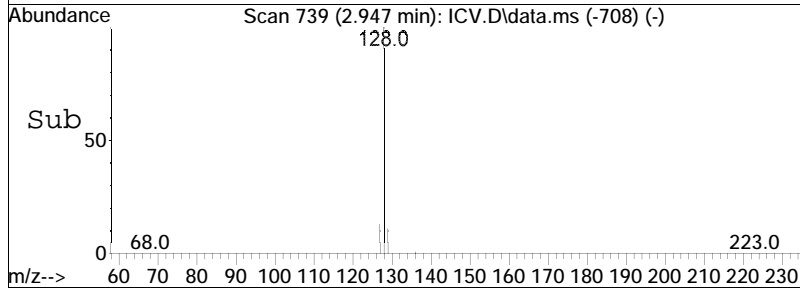
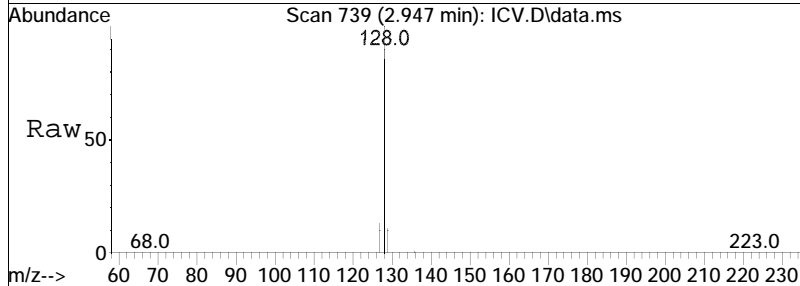
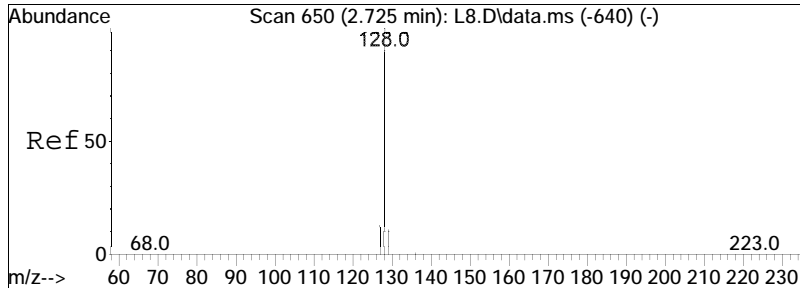




#6
 n-nitrosodi-n-propylamine
 Concen: 5.15 ug/ml
 RT: 2.463 min Scan# 558
 Delta R.T. -0.000 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

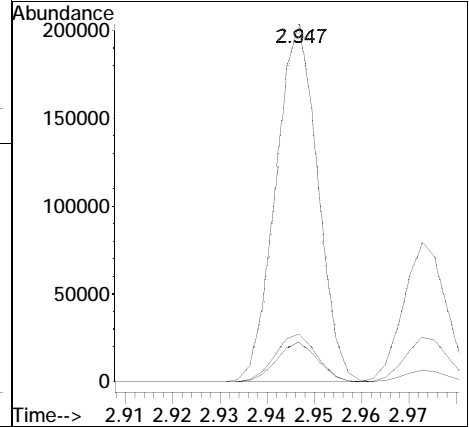
Tgt Ion:	Resp:	Lower	Upper
70	100		
130	19.9	15.0	22.4

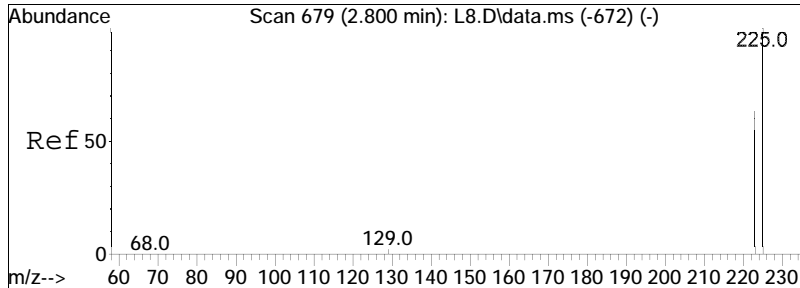




#9
 Naphthalene
 Concen: 4.84 ug/ml
 RT: 2.947 min Scan# 739
 Delta R.T. -0.000 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

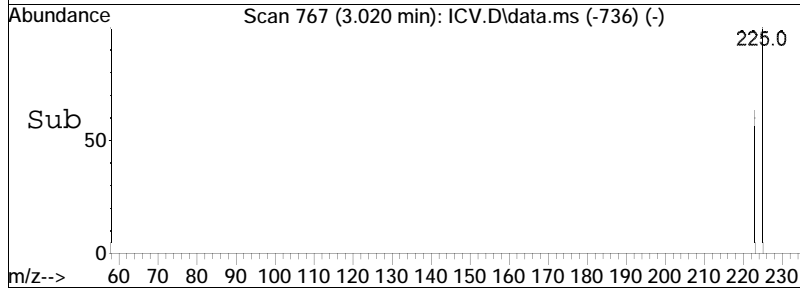
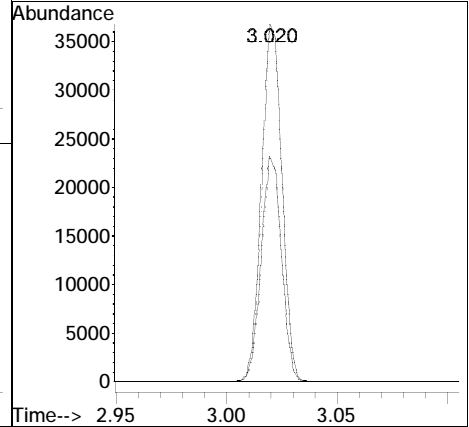
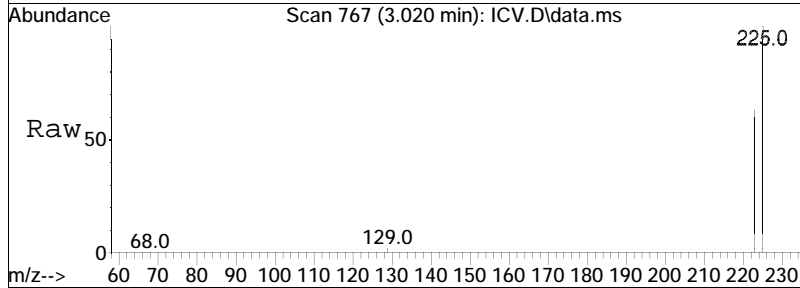
Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.4	10.8	16.2

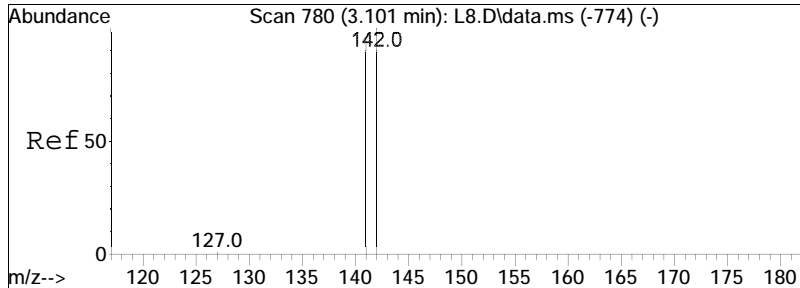




#10
 Hexachlorobutadiene
 Concen: 4.79 ug/ml
 RT: 3.020 min Scan# 767
 Delta R.T. 0.001 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

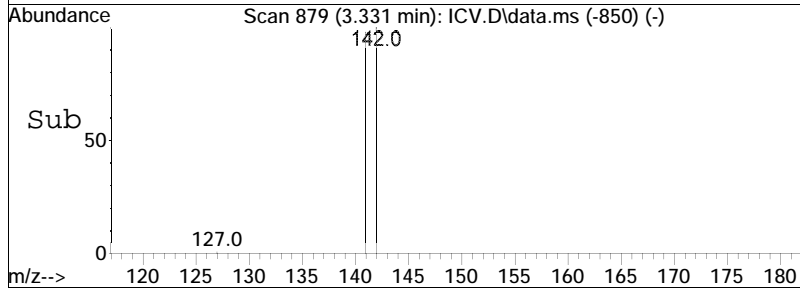
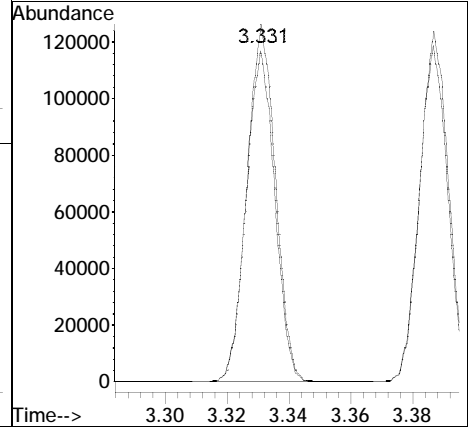
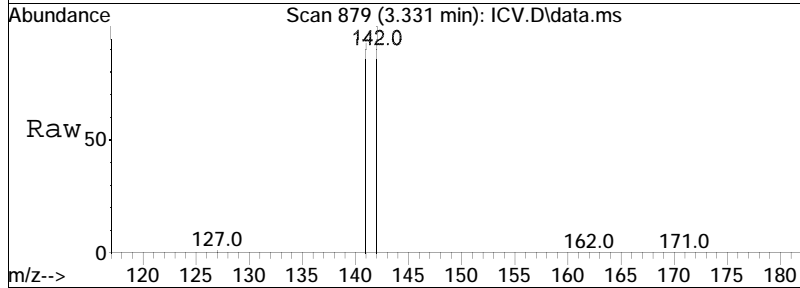
Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.4	75.6

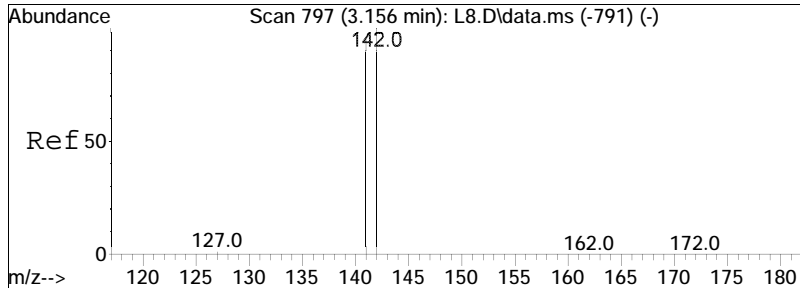




#11
 2-Methylnaphthalene
 Concen: 4.98 ug/ml
 RT: 3.331 min Scan# 879
 Delta R.T. 0.000 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

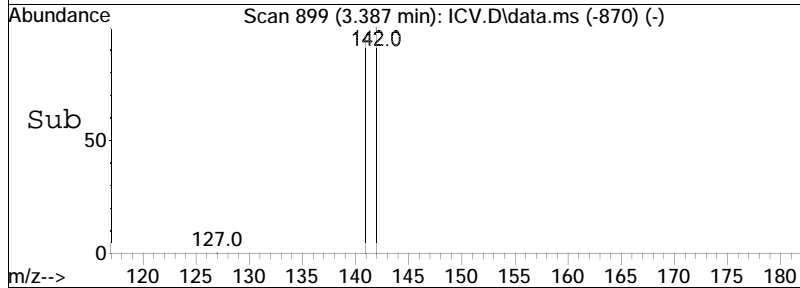
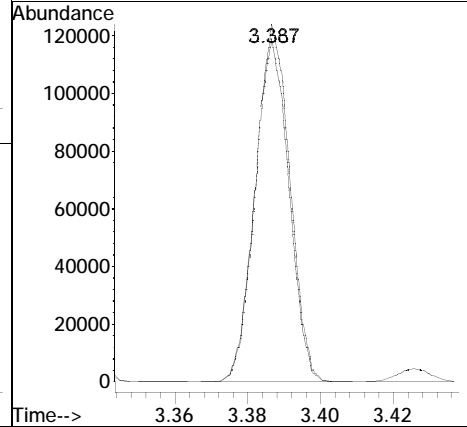
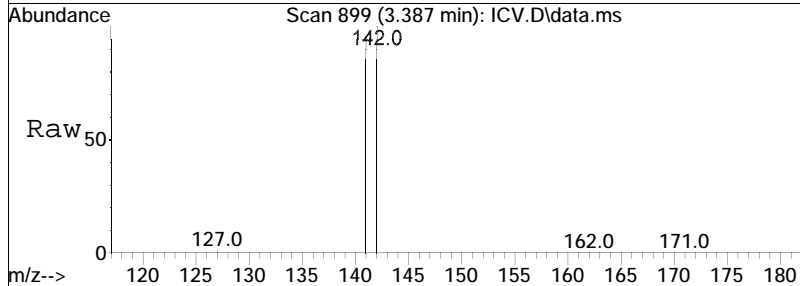
Tgt Ion	Resp	Lower	Upper
142	100		
141	92.8	74.2	111.4

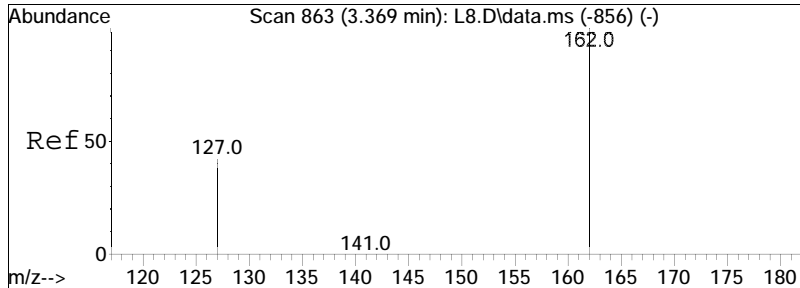




#12
 1-Methylnaphthalene
 Concen: 4.99 ug/ml
 RT: 3.387 min Scan# 899
 Delta R.T. -0.000 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

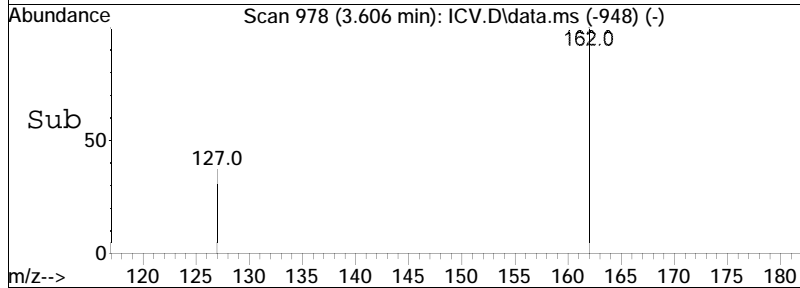
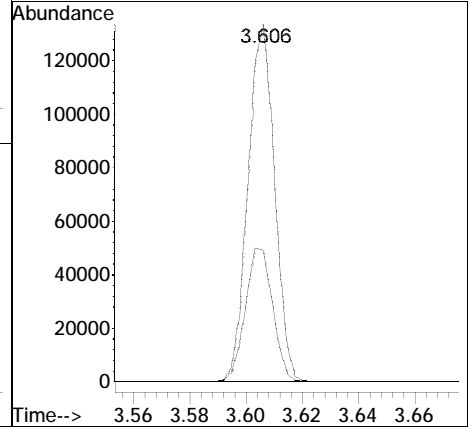
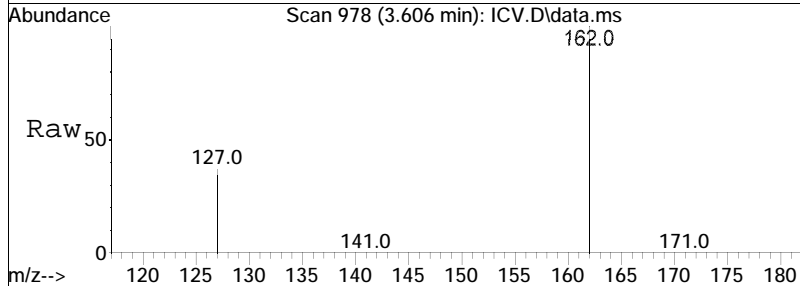
Tgt Ion	Ratio	Lower	Upper
142	100		
141	95.8	76.7	115.1

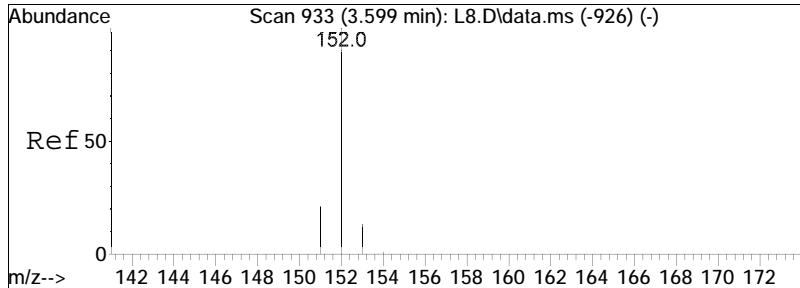




#14
 2-Chloronaphthalene
 Concen: 5.03 ug/ml
 RT: 3.606 min Scan# 978
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

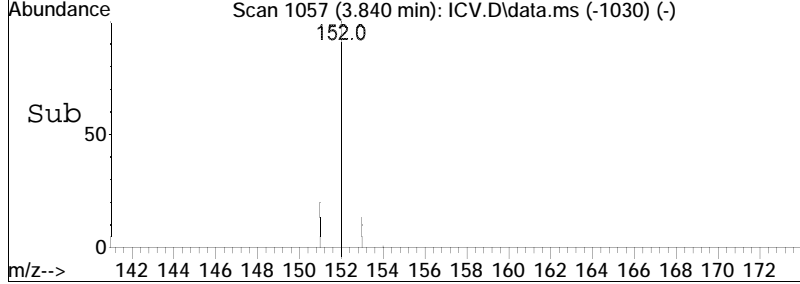
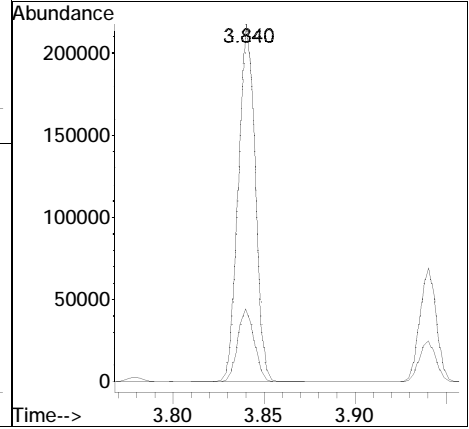
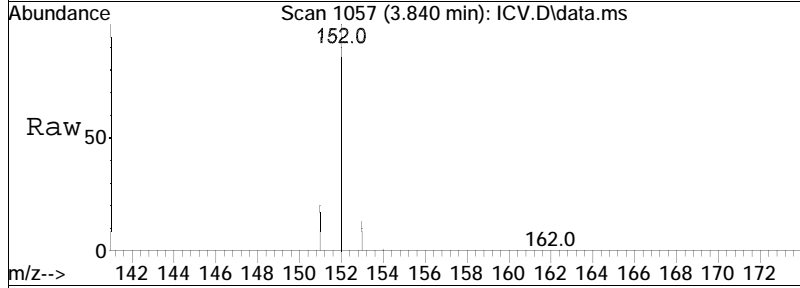
Tgt Ion	Ratio	Lower	Upper
162	100		
127	38.7	31.5	47.3

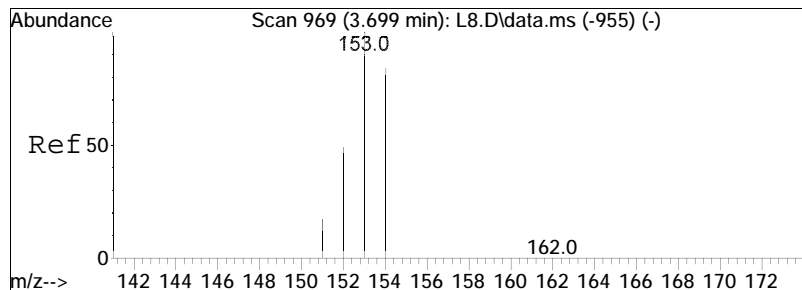




#15
 Acenaphthylene
 Concen: 5.66 ug/ml
 RT: 3.840 min Scan# 1057
 Delta R.T. -0.001 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

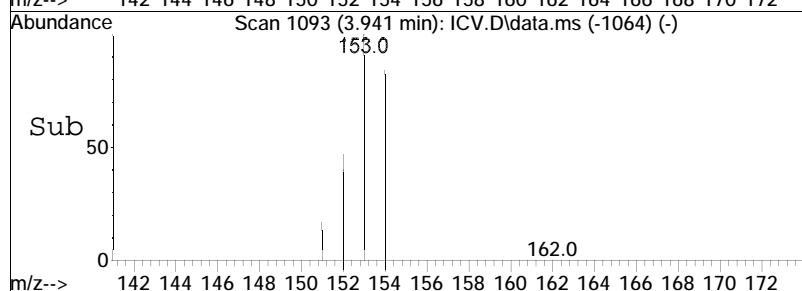
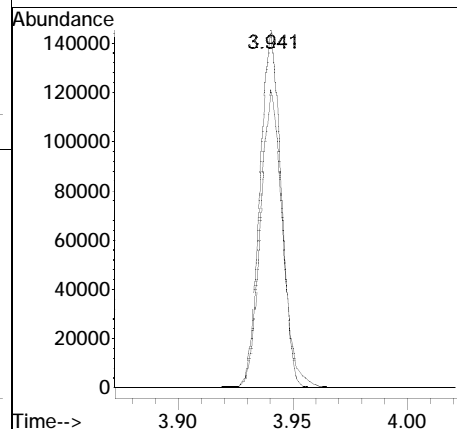
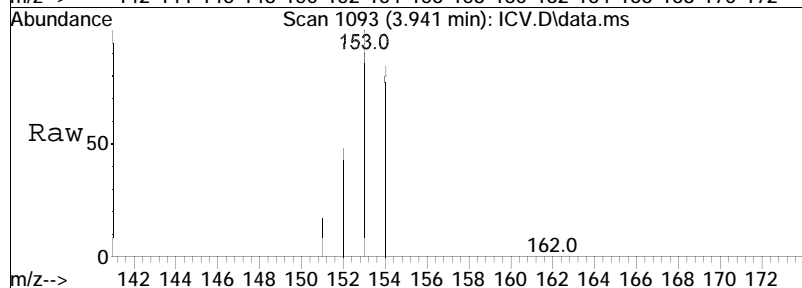
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.3	24.5

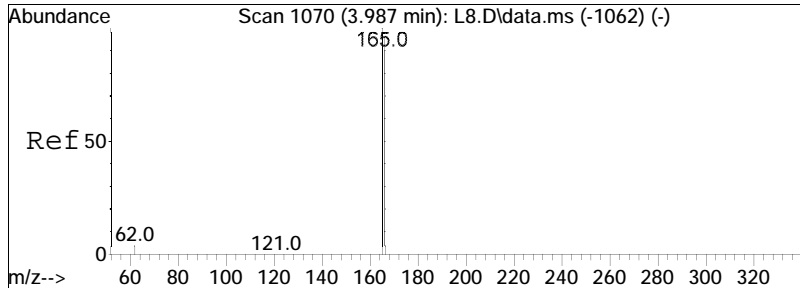




#17
 Acenaphthene
 Concen: 4.77 ug/ml
 RT: 3.941 min Scan# 1093
 Delta R.T. -0.000 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

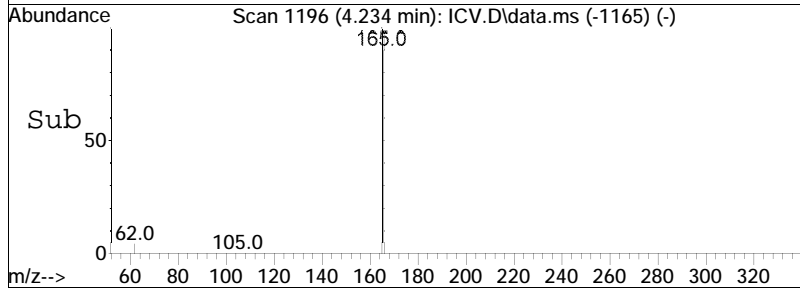
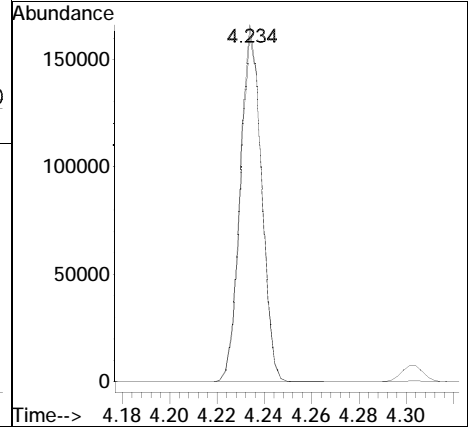
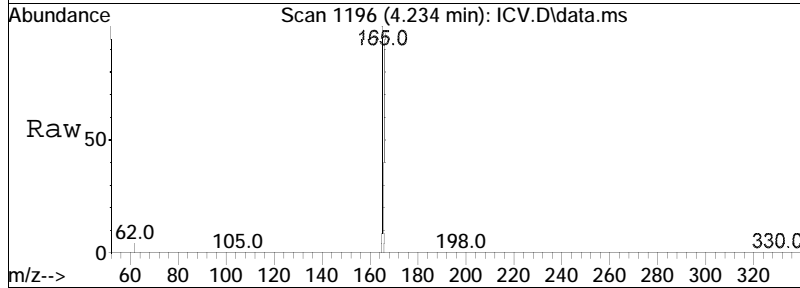
Tgt Ion	Resp	Lower	Upper
153	100		
154	87.2	70.8	106.2

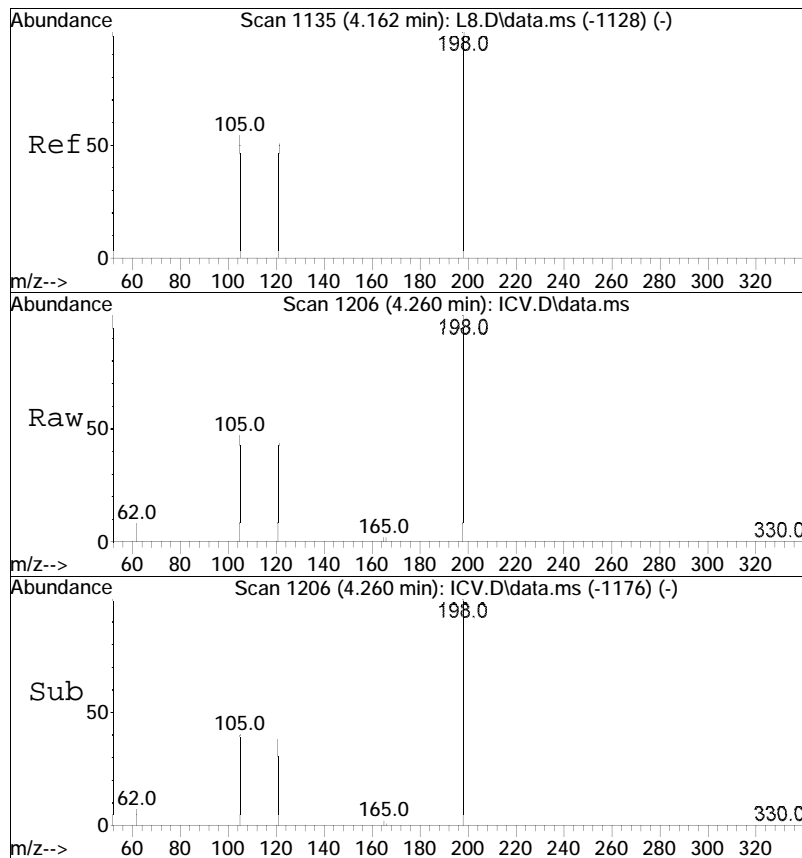




#18
 Fluorene
 Concen: 5.00 ug/ml
 RT: 4.234 min Scan# 1196
 Delta R.T. 0.000 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

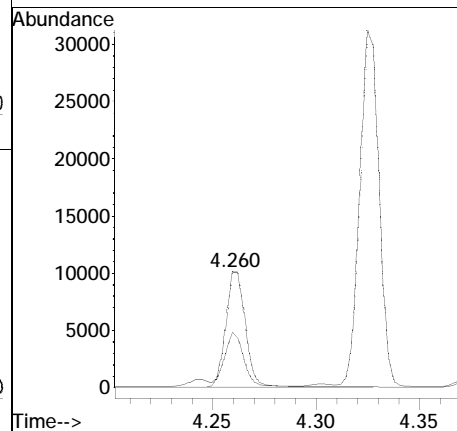
Tgt Ion	Resp	Lower	Upper
166	100857		
165	102.6	82.2	123.2

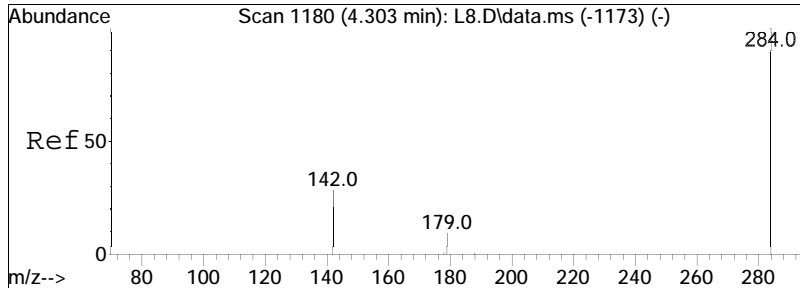




#21
 4,6-Dinitro-o-cresol
 Concen: 4.26 ug/ml
 RT: 4.260 min Scan# 1206
 Delta R.T. -0.002 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

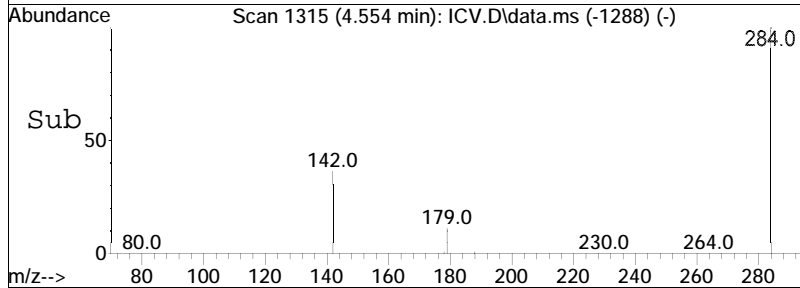
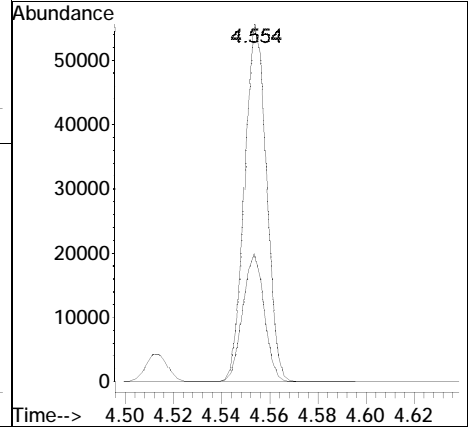
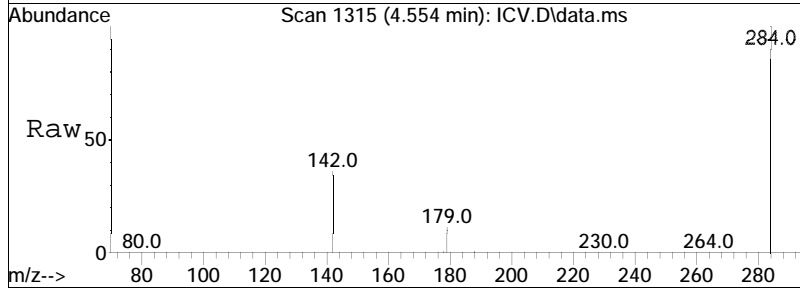
Tgt Ion	Ratio	Lower	Upper
198	100		
105	43.9	37.7	56.5

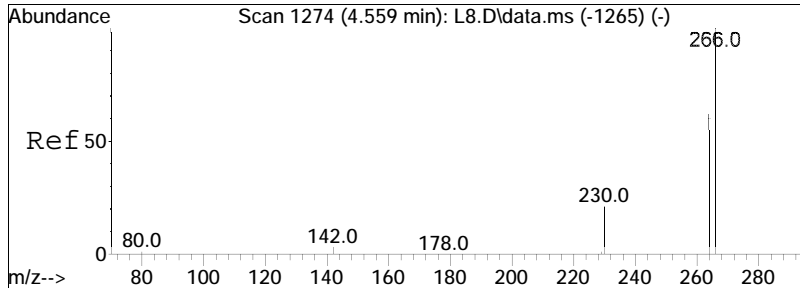




#22
 Hexachlorobenzene
 Concen: 4.79 ug/ml
 RT: 4.554 min Scan# 1315
 Delta R.T. -0.000 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

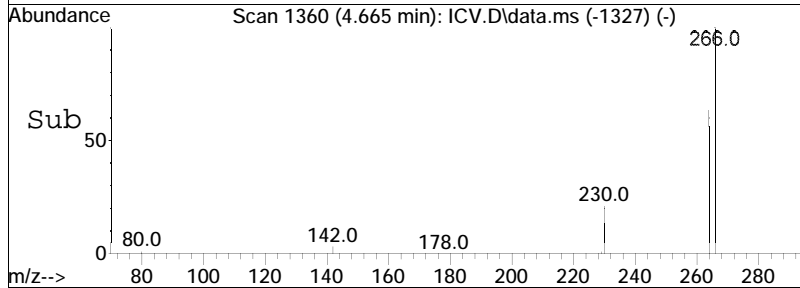
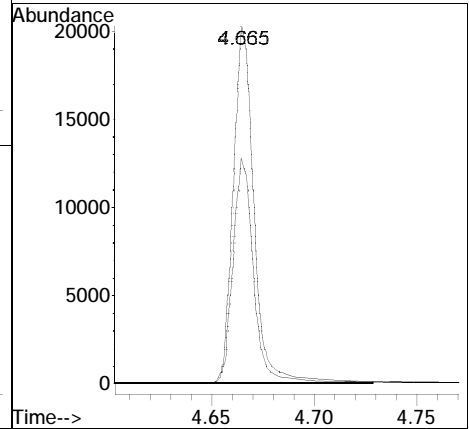
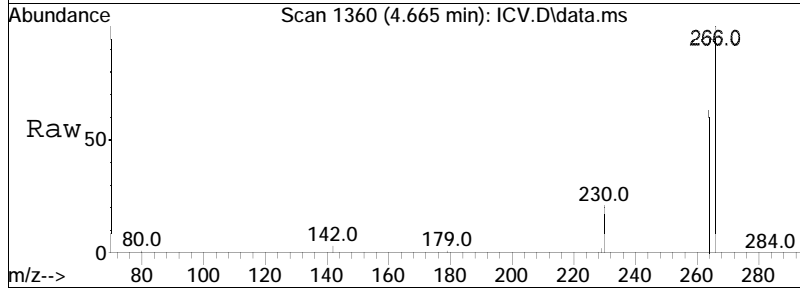
Tgt Ion: 284 Resp: 34756
 Ion Ratio Lower Upper
 284 100
 142 35.2 29.2 43.8

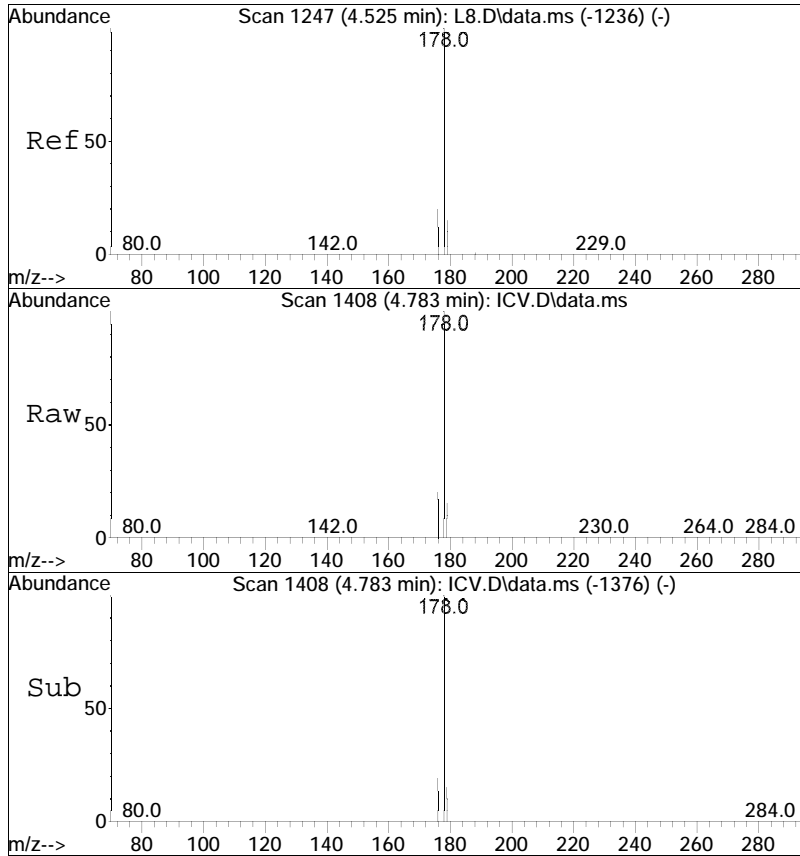




#23
 Pentachlorophenol
 Concen: 4.45 ug/ml
 RT: 4.665 min Scan# 1360
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

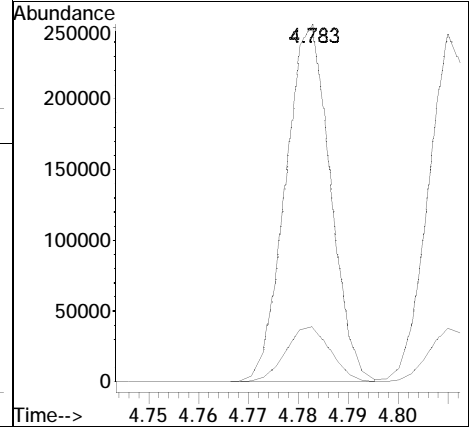
Tgt Ion: 266 Resp: 14011
 Ion Ratio Lower Upper
 266 100
 264 62.8 50.6 76.0

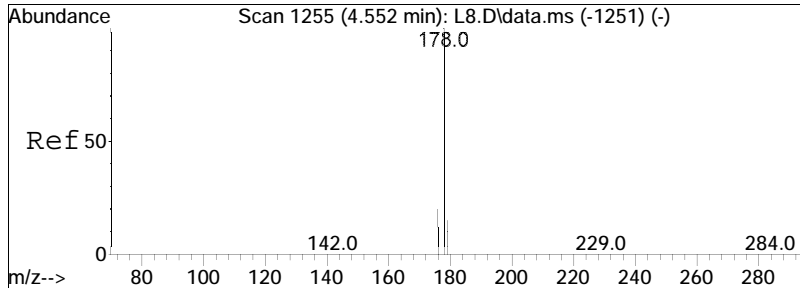




#24
 Phenanthrene
 Concen: 4.70 ug/ml
 RT: 4.783 min Scan# 1408
 Delta R.T. -0.000 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

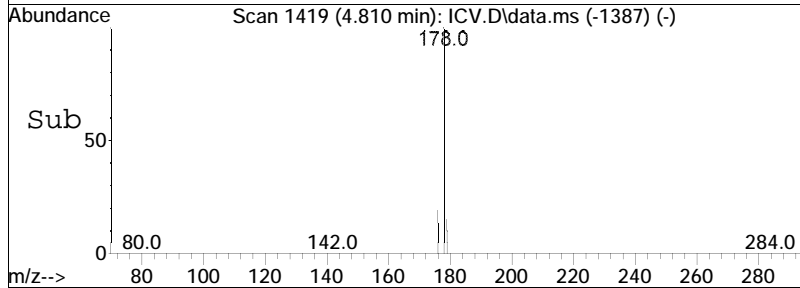
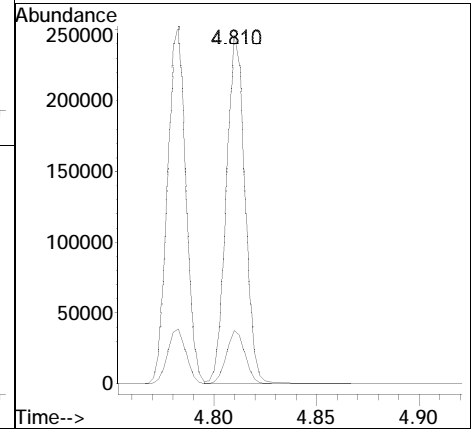
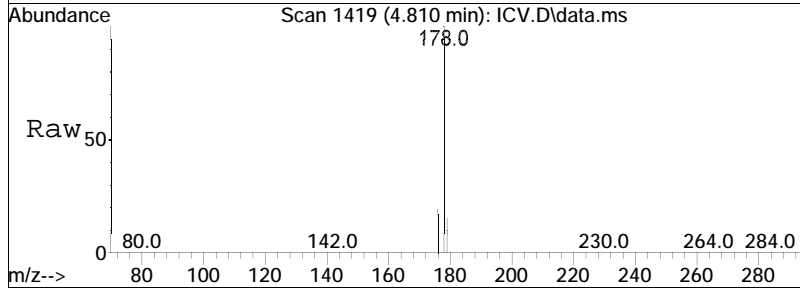
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.3	18.5

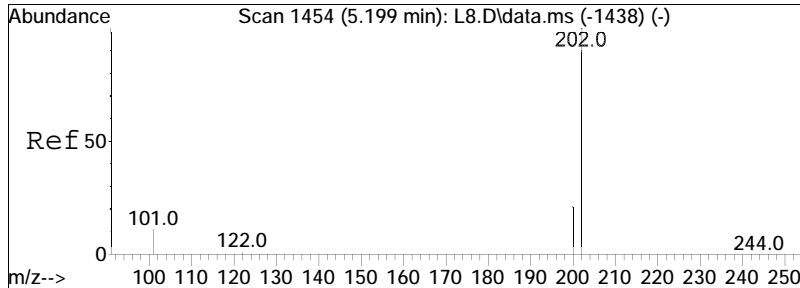




#25
 Anthracene
 Concen: 4.97 ug/ml
 RT: 4.810 min Scan# 1419
 Delta R.T. -0.002 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

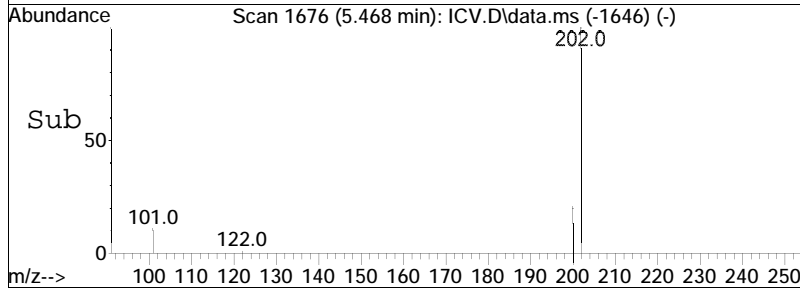
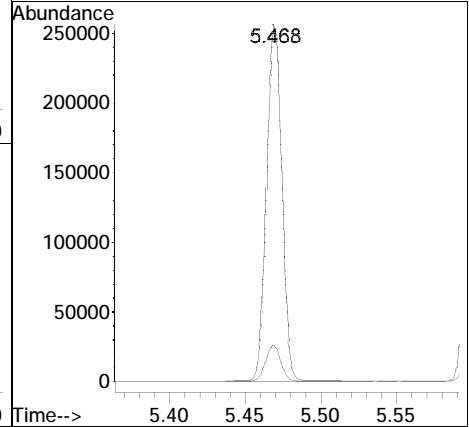
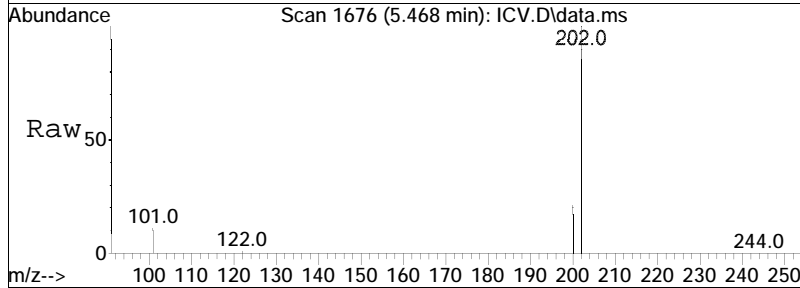
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.3	12.2	18.2

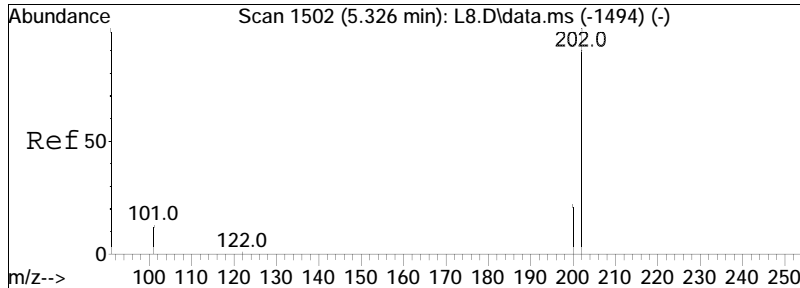




#27
 Fluoranthene
 Concen: 4.96 ug/ml
 RT: 5.468 min Scan# 1676
 Delta R.T. -0.001 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

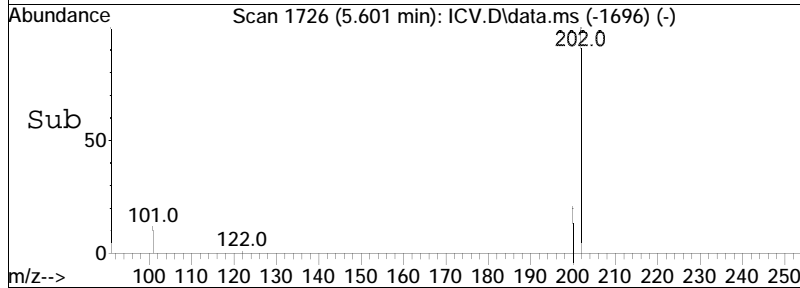
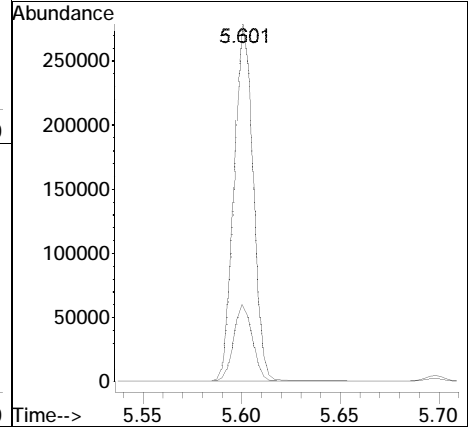
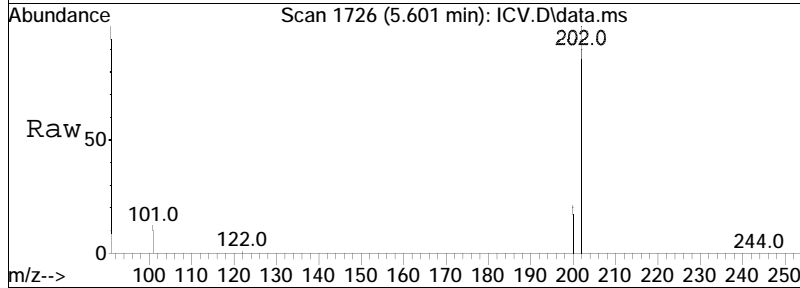
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.3	9.3	13.9

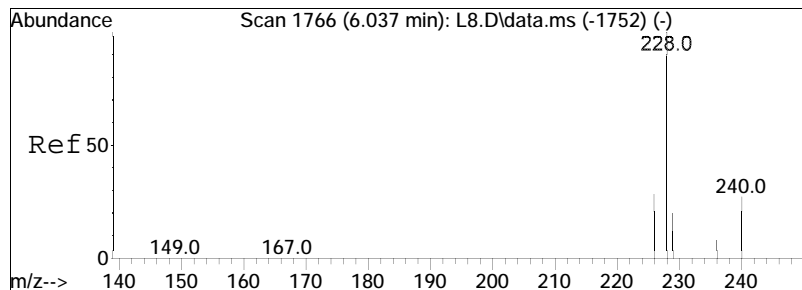




#28
 Pyrene
 Concen: 4.99 ug/ml
 RT: 5.601 min Scan# 1726
 Delta R.T. -0.000 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

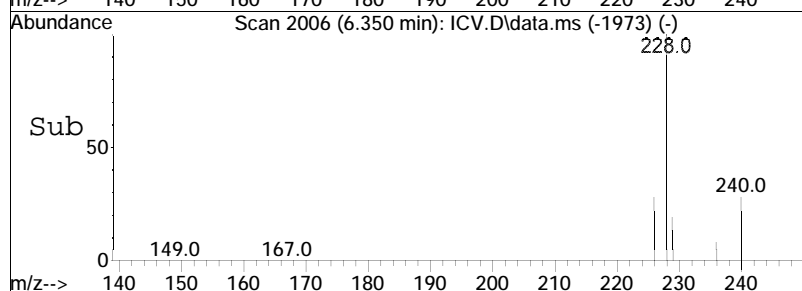
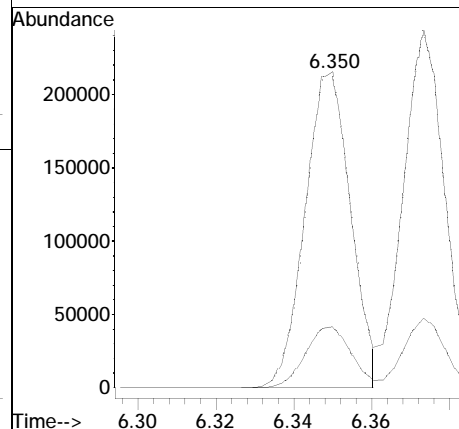
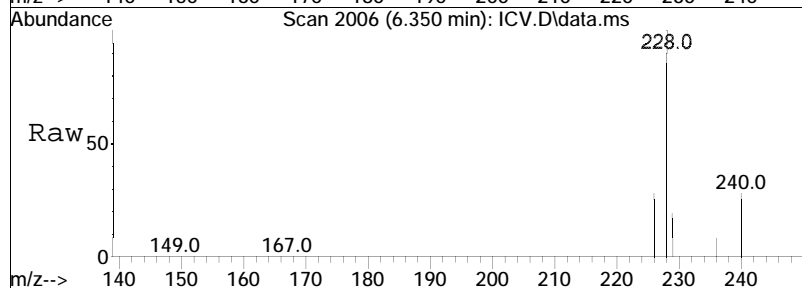
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.4	26.2

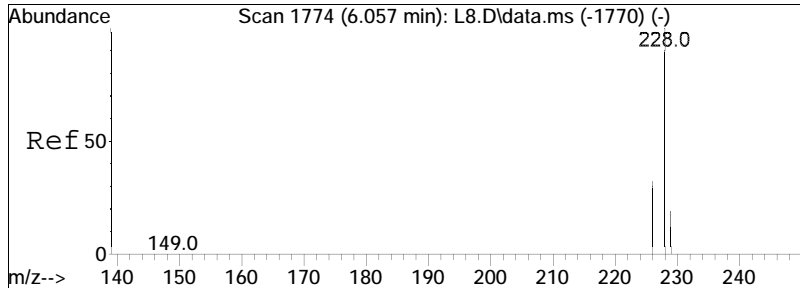




#31
 Benzo[a]anthracene
 Concen: 4.86 ug/ml
 RT: 6.350 min Scan# 2006
 Delta R.T. 0.005 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

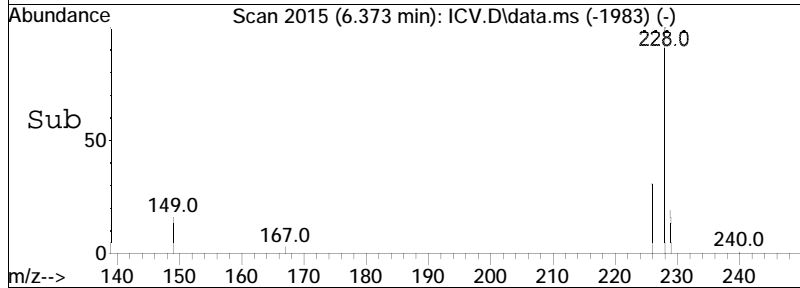
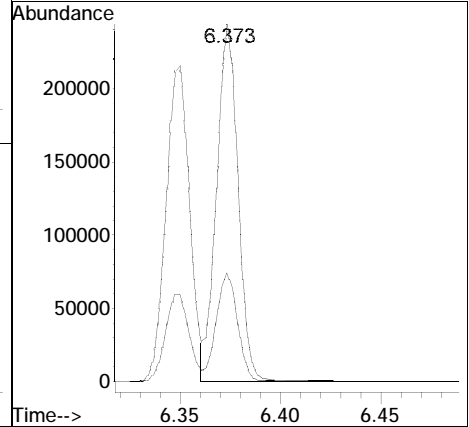
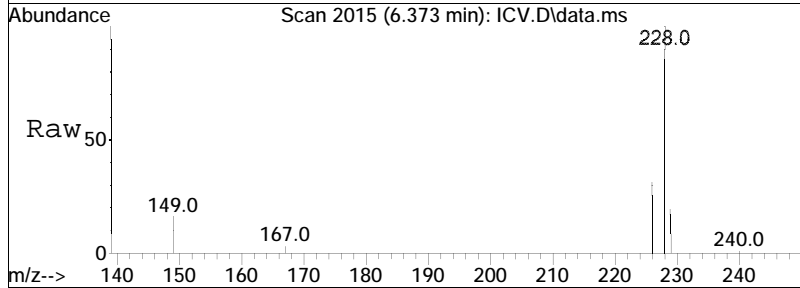
Tgt Ion	Resp	Lower	Upper
228	100		
229	19.4	15.6	23.4

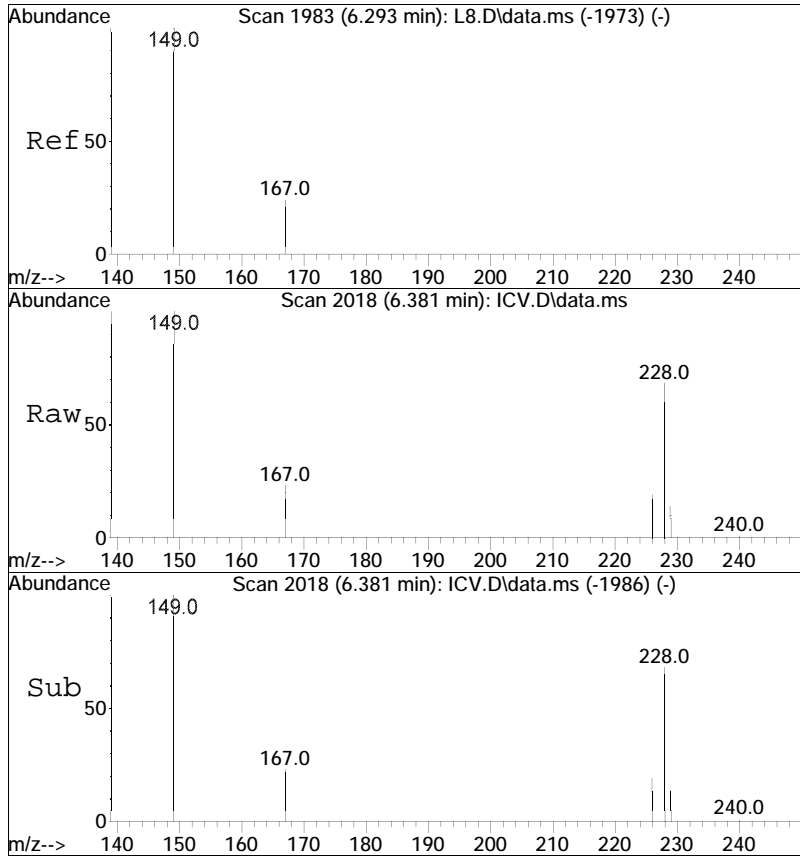




#32
 Chrysene
 Concen: 4.76 ug/ml
 RT: 6.373 min Scan# 2015
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

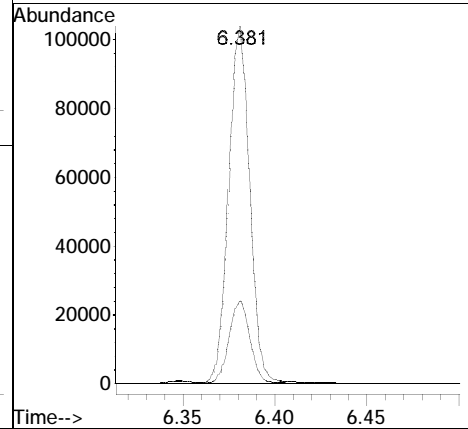
Tgt Ion	Resp	Lower	Upper
228	100		
226	30.5	24.9	37.3

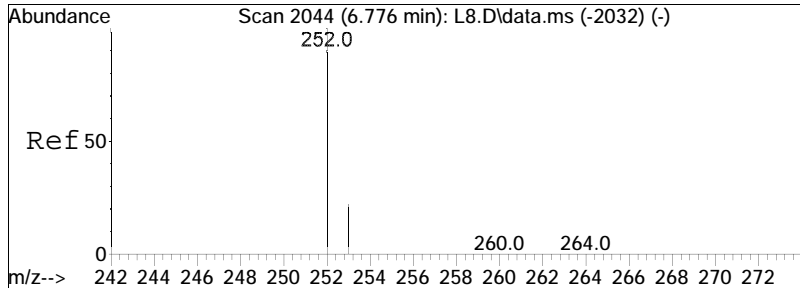




#33
 Bis(2-ethylhexyl)phthalate
 Concen: 4.62 ug/ml
 RT: 6.381 min Scan# 2018
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

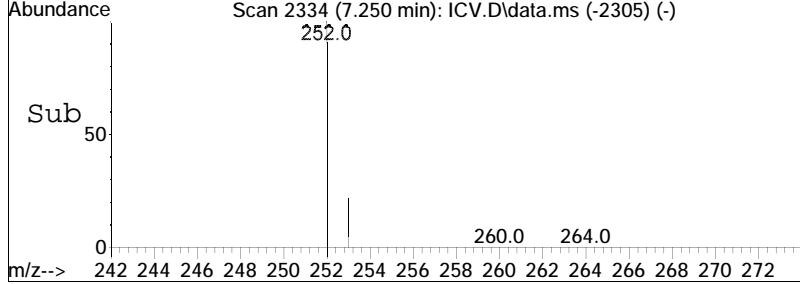
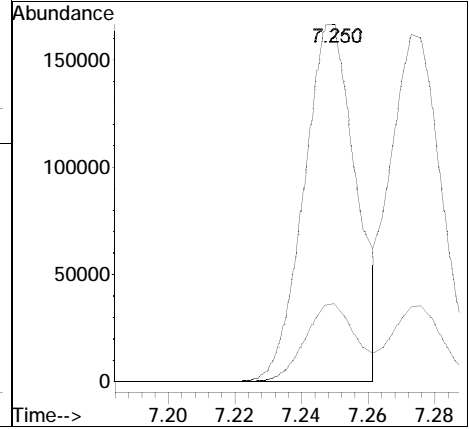
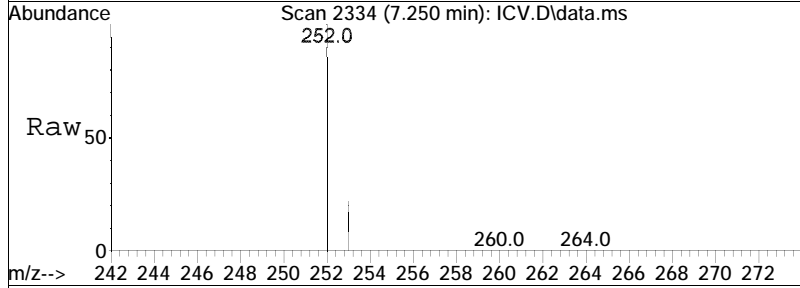
Tgt Ion	Resp	Lower	Upper
149	100		
167	23.3	18.2	27.2

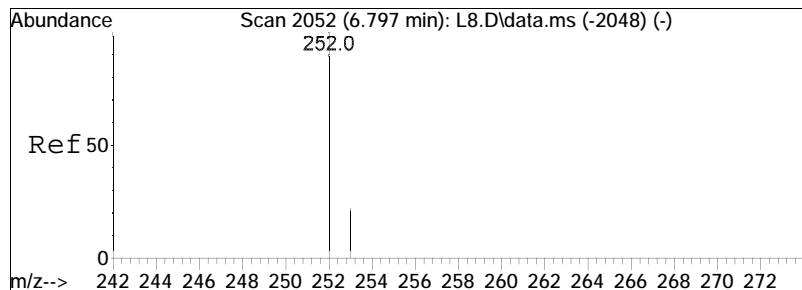




#35
 Benzo[b]fluoranthene
 Concen: 5.07 ug/ml
 RT: 7.250 min Scan# 2334
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

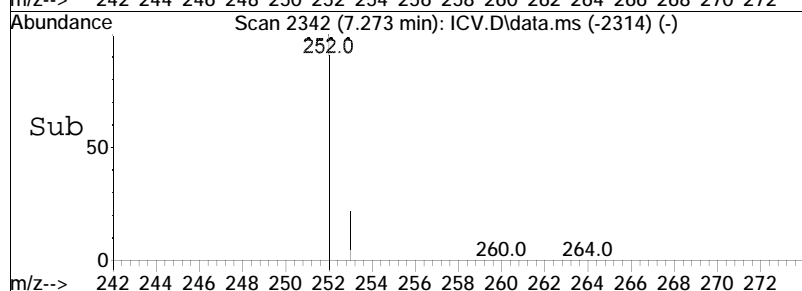
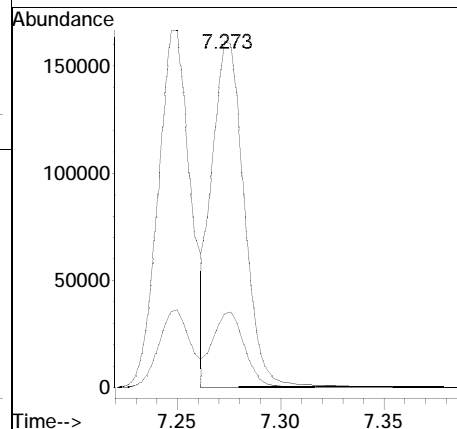
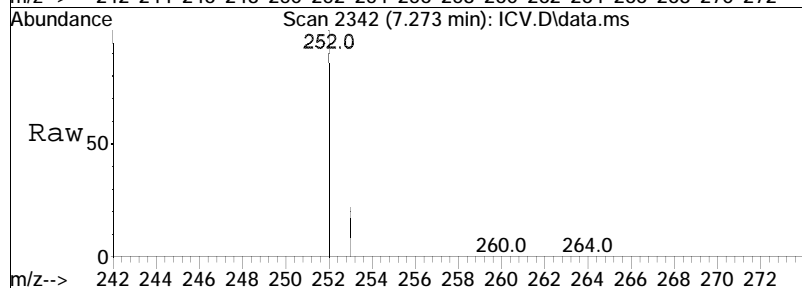
Tgt Ion	Resp	Lower	Upper
252	181508		
253	21.5	17.2	25.8

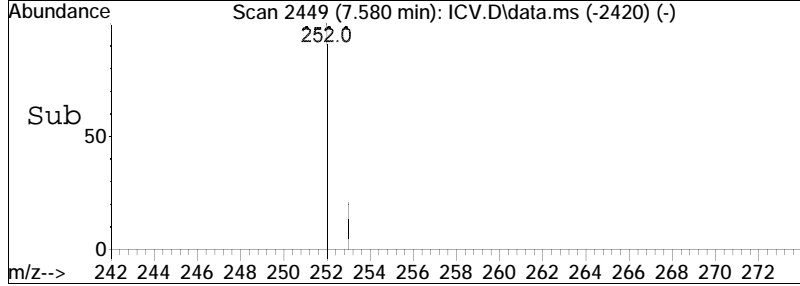
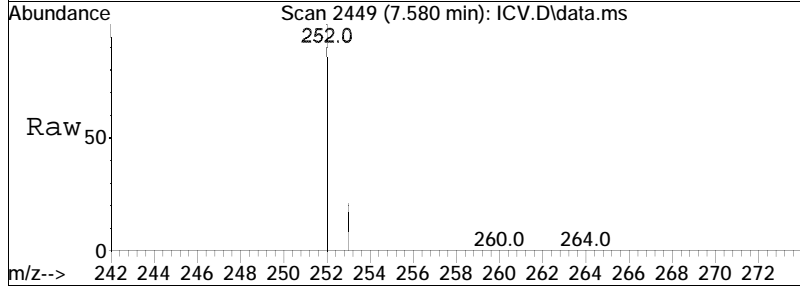
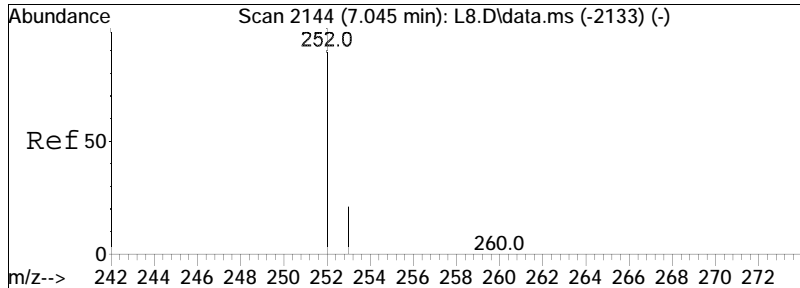




#36
 Benzo[k]fluoranthene
 Concen: 4.98 ug/ml
 RT: 7.273 min Scan# 2342
 Delta R.T. -0.000 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

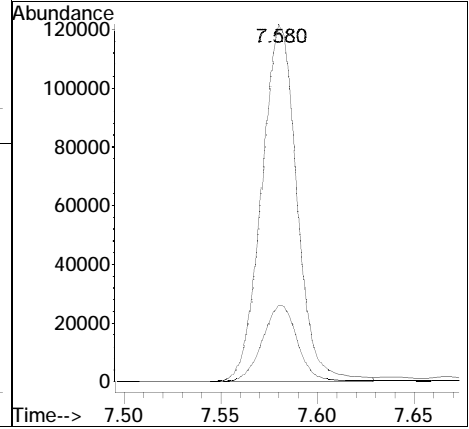
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.9	17.4	26.0

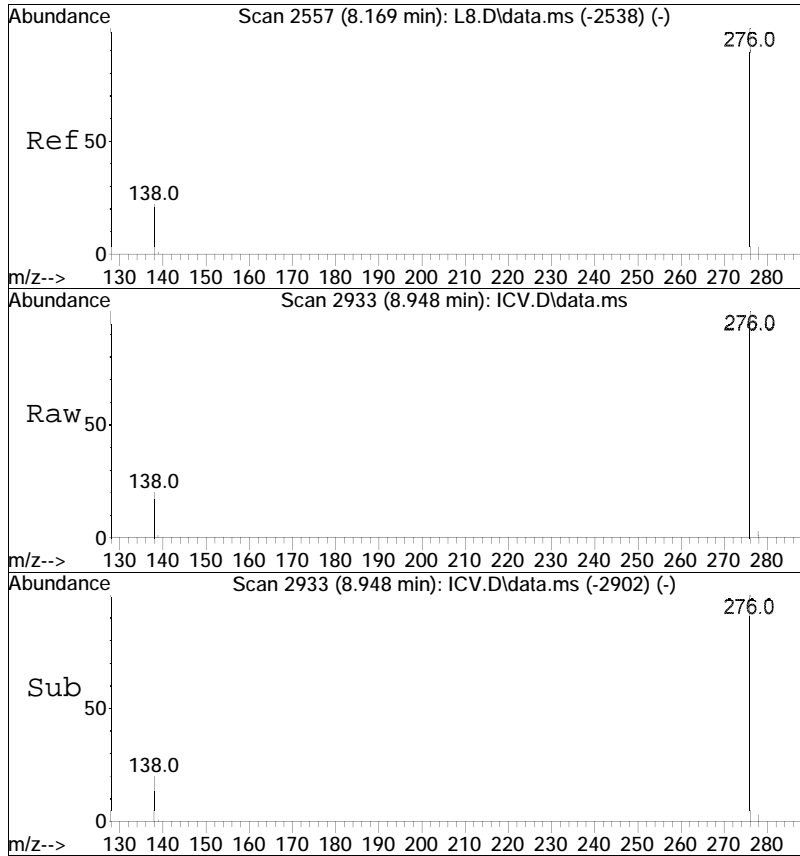




#37
 Benzo[a]pyrene
 Concen: 5.21 ug/ml
 RT: 7.580 min Scan# 2449
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

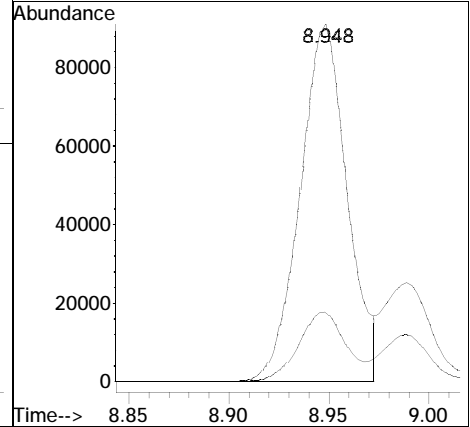
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	16.8	25.2

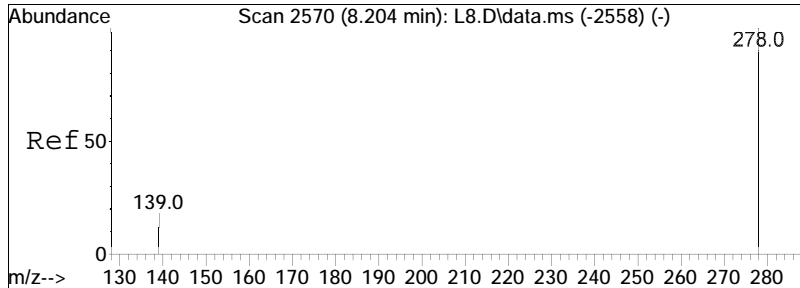




#38
 Indeno[1,2,3-cd]pyrene
 Concen: 5.48 ug/ml
 RT: 8.948 min Scan# 2933
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

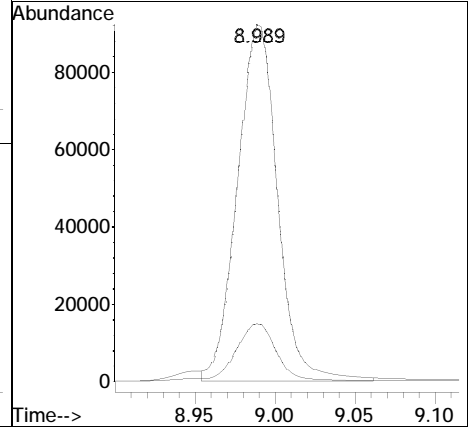
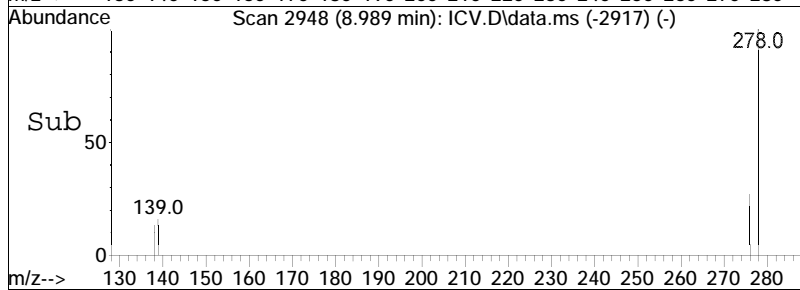
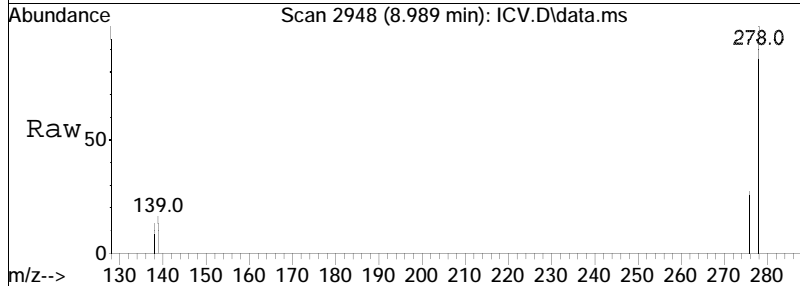
Tgt Ion	Resp	Lower	Upper
276	147999		
138	19.4	17.9	26.9

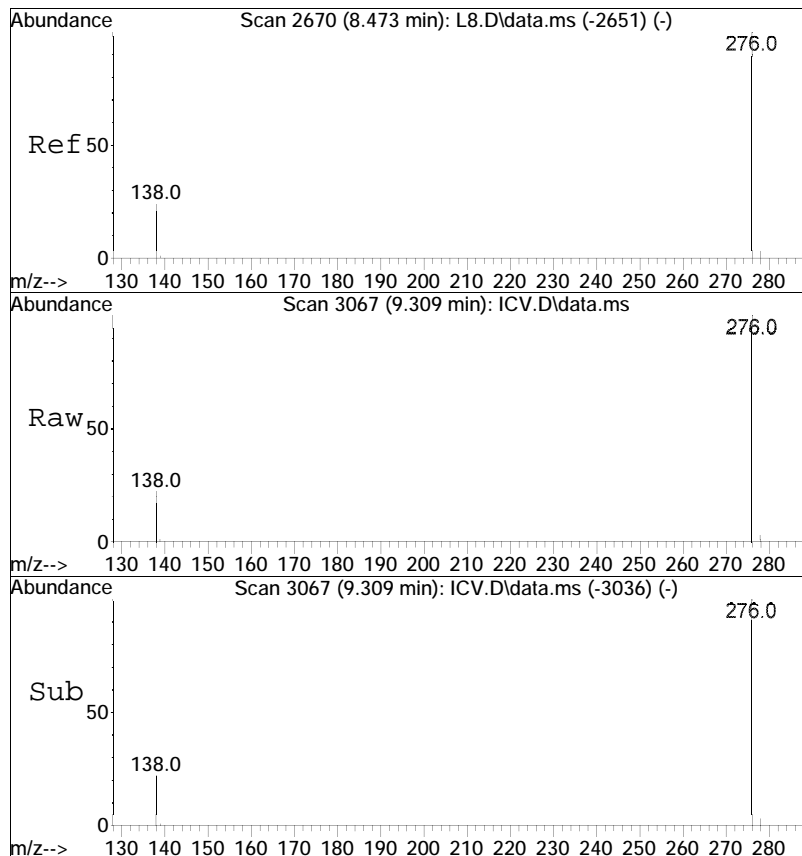




#39
 Dibenzo[a,h]anthracene
 Concen: 5.18 ug/ml M6
 RT: 8.989 min Scan# 2948
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

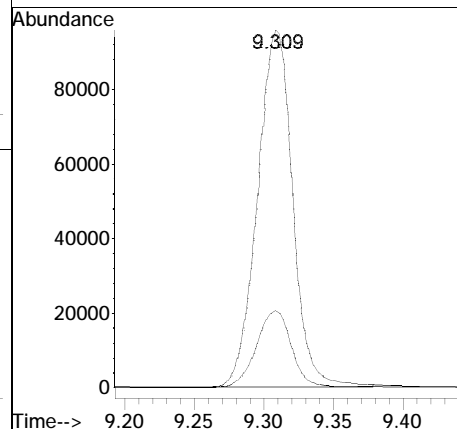
Tgt Ion	Resp	Lower	Upper
278	160507		
139	15.8	15.9	23.9#





#40
 Benzo[g,h,i]perylene
 Concen: 4.85 ug/ml
 RT: 9.309 min Scan# 3067
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 22 Feb 2023 01:56 pm

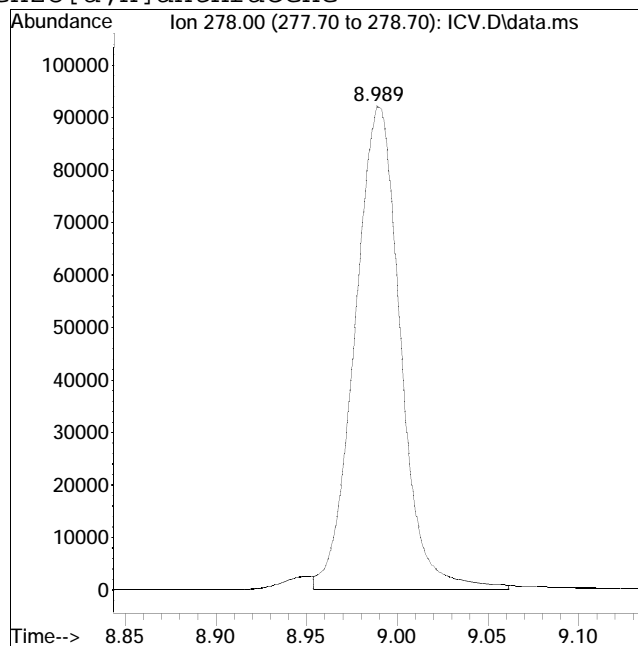
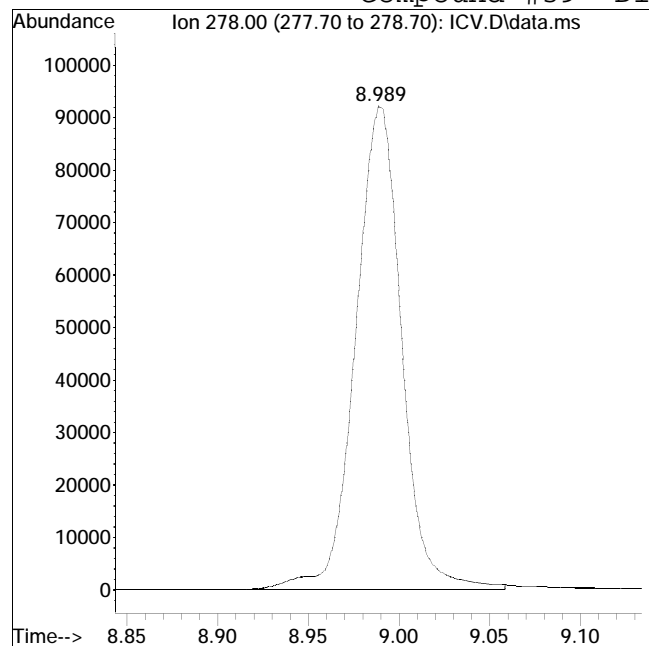
Tgt Ion	Resp	Lower	Upper
276	166242		
138	21.7	20.1	30.1



Manual Integration Report

Data Path : I:\8270SIM\sv120\230222STiQMethod : simtech230222-sv120.M
Data File : ICV.D Operator : SV120:jjw
Date Inj'd : 2/22/2023 1:56 pm Instrument : SV120
Sample : CQICV,32,, 5.0/30.0 Lot#98Quant Date : 3/1/2023 12:04 pm

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 162984

Manual Peak Response = 160507 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Method Path : I:\8270SIM\sv120\230222STical\
Method File : simtech230222-sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Mar 01 12:04:08 2023

COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
19 S 2,4,6-Tribromophenol	Q	ug/ml	30.0	30.457	1.5	0.50	0.588	17.6
21 T 4,6-Dinitro-o-cresol	Q	ug/ml	5.0	4.993	-0.1	0.20	0.238	19.0
23 T Pentachlorophenol	Q	ug/ml	5.0	5.030	0.6	0.10	0.124	24.0
33 T Bis(2-ethylhexyl)phthalate	Q	ug/ml	5.0	4.853	-2.9	0.10	0.130	30.0

Calibration Correlation Report

COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
19 S 2,4,6-Tribromophenol	Quadratic	0.998728	0.002241	0.190408	-0.0113942
21 T 4,6-Dinitro-o-cresol	Quadratic	0.999091	0.002613	0.0498268	-0.00143275
23 T Pentachlorophenol	Quadratic	0.999315	0.001837	0.103627	-0.00215549
33 T Bis(2-ethylhexyl)phthalate	Quadratic	0.997262	0.025399	0.619522	-0.00939776

Continuing Calibration

Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : SV120
 Lab File ID : CCV0801
 Sample No : WG1810218-3
 Channel :

Lab Number : L2343170
 Project Number : 2230119
 Calibration Date : 08/01/23 07:32
 Init. Calib. Date(s) : 02/22/23 02/22/23
 Init. Calib. Times : 11:10 13:39

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	71	0
2-Fluorophenol	1.037	1.032	.05	0.5	20	67	0
Phenol-d6	1.281	1.233	.05	3.7	20	65	0
Hexachloroethane	0.483	0.466	.05	3.5	20	67	0
Bis(2-chloroethyl)ether	1.086	1.044	.05	3.9	20	67	0
n-nitrosodi-n-propylamine	0.728	0.71	.05	2.5	20	66	0
Nitrobenzene-d5	1.01	1.172	.05	-16	20	75	0
Naphthalene-d8	1	1	.05	0	20	66	0
Naphthalene	1.03	0.949	.05	7.9	20	61	0
Hexachlorobutadiene	0.193	0.209	.05	-8.3	20	72	0
2-Methylnaphthalene	0.647	0.611	.05	5.6	20	62	0
1-Methylnaphthalene	0.634	0.6	.05	5.4	20	62	0
2-Fluorobiphenyl	0.791	0.751	.05	5.1	20	64	0
2-Chloronaphthalene	0.684	0.657	.05	3.9	20	63	0
Acenaphthylene	0.984	1.05	.05	-6.7	20	67	0
Acenaphthene-d10	1	1	.05	0	20	70	0
Acenaphthene	1.364	1.186	.05	13	20	61	0
Fluorene	1.436	1.327	.05	7.6	20	64	0
2,4,6-Tribromophenol	30	28.43	.05	5.2	20	65	0
Phenanthrene-d10	1	1	.05	0	20	74	0
4,6-Dinitro-o-cresol	5	8.565	.05	-71.3*	20	134	0
Hexachlorobenzene	0.239	0.213	.05	10.9	20	66	0
Pentachlorophenol	5	4.893	.05	2.1	20	72	0
Phenanthrene	1.099	0.938	.05	14.6	20	64	0
Anthracene	1.032	0.876	.05	15.1	20	60	0
O-Terphenyl-MS	0.553	0.505	.05	8.7	20	67	0
Fluoranthene	1.182	1.134	.05	4.1	20	68	0
Pyrene	1.227	1.198	.05	2.4	20	69	0
4-Terphenyl-d14	0.821	0.825	.05	-0.5	20	75	0
Chrysene-d12	1	1	.05	0	20	85	0
Benzo[a]anthracene	1.302	1.155	.05	11.3	20	75	0
Chrysene	1.368	1.129	.05	17.5	20	70	0
Bis(2-ethylhexyl)phthalate	5	4.655	.05	6.9	20	81	0
Perylene-d12	1	1	.05	0	20	80	0
Benzo[b]fluoranthene	1.215	1.153	.05	5.1	20	70	0
Benzo[k]fluoranthene	1.188	1.078	.05	9.3	20	69	0
Benzo[a]pyrene	0.99	0.953	.05	3.7	20	70	0
Indeno[1,2,3-cd]pyrene	0.917	1.018	.05	-11	20	83	0
Dibenzo[a,h]anthracene	1.053	1.042	.05	1	20	71	0
Benzo[g,h,i]perylene	1.163	1.028	.05	11.6	20	66	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : SV120
 Lab File ID : CCV0808
 Sample No : WG1813153-3
 Channel :

Lab Number : L2343170
 Project Number : 2230119
 Calibration Date : 08/08/23 07:57
 Init. Calib. Date(s) : 02/22/23 02/22/23
 Init. Calib. Times : 11:10 13:39

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	104	0
2-Fluorophenol	1.037	1.068	.05	-3	20	103	0
Phenol-d6	1.281	1.272	.05	0.7	20	99	0
Hexachloroethane	0.483	0.499	.05	-3.3	20	106	0
Bis(2-chloroethyl)ether	1.086	1.08	.05	0.6	20	103	0
n-nitrosodi-n-propylamine	0.728	0.721	.05	1	20	99	0
Nitrobenzene-d5	1.01	1.136	.05	-12.5	20	108	0
Naphthalene-d8	1	1	.05	0	20	104	0
Naphthalene	1.03	0.959	.05	6.9	20	97	0
Hexachlorobutadiene	0.193	0.181	.05	6.2	20	97	0
2-Methylnaphthalene	0.647	0.605	.05	6.5	20	96	0
1-Methylnaphthalene	0.634	0.588	.05	7.3	20	95	0
2-Fluorobiphenyl	0.791	0.705	.05	10.9	20	95	0
2-Chloronaphthalene	0.684	0.633	.05	7.5	20	95	0
Acenaphthylene	0.984	1.019	.05	-3.6	20	101	0
Acenaphthene-d10	1	1	.05	0	20	103	0
Acenaphthene	1.364	1.216	.05	10.9	20	91	0
Fluorene	1.436	1.309	.05	8.8	20	92	0
2,4,6-Tribromophenol	30	17.698	.05	41*	20	57	0
Phenanthrene-d10	1	1	.05	0	20	100	0
4,6-Dinitro-o-cresol	5	8.356	.05	-67.1*	20	175	0
Hexachlorobenzene	0.239	0.183	.05	23.4*	20	76	0
Pentachlorophenol	5	4.089	.05	18.2	20	80	0
Phenanthrene	1.099	0.957	.05	12.9	20	88	0
Anthracene	1.032	0.968	.05	6.2	20	90	0
O-Terphenyl-MS	0.553	0.512	.05	7.4	20	92	0
Fluoranthene	1.182	1.075	.05	9.1	20	87	0
Pyrene	1.227	1.124	.05	8.4	20	87	0
4-Terphenyl-d14	0.821	0.772	.05	6	20	94	0
Chrysene-d12	1	1	.05	0	20	95	0
Benzo[a]anthracene	1.302	1.222	.05	6.1	20	89	0
Chrysene	1.368	1.15	.05	15.9	20	80	0
Bis(2-ethylhexyl)phthalate	5	5.241	.05	-4.8	20	104	0
Perylene-d12	1	1	.05	0	20	104	0
Benzo[b]fluoranthene	1.215	1.086	.05	10.6	20	86	0
Benzo[k]fluoranthene	1.188	0.951	.05	19.9	20	79	0
Benzo[a]pyrene	0.99	0.928	.05	6.3	20	89	0
Indeno[1,2,3-cd]pyrene	0.917	1.098	.05	-19.7	20	117	0
Dibenzo[a,h]anthracene	1.053	1.077	.05	-2.3	20	96	0
Benzo[g,h,i]perylene	1.163	1.079	.05	7.2	20	91	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : ccv0801.D
 Acq On : 01 Aug 2023 07:32 am
 Operator : SV120:jjw
 Sample : WG1810218-3,32,, ICV 10146 (0730)
 Misc : WG1810218,, ical19770
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Aug 01 07:48:02 2023
 Quant Method : I:\8270SIM\sv120\230801ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 01 07:47:51 2023
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	71	0.00
2 s	2-Fluorophenol	1.037	1.032	0.5	67	0.00
3 s	Phenol-d6	1.281	1.233	3.7	65	0.00
4 t	Hexachloroethane	0.483	0.466	3.5	67	0.00
5 t	Bis(2-chloroethyl)ether	1.086	1.044	3.9	67	0.00
6 t	n-nitrosodi-n-propylamine	0.728	0.710	2.5	66	0.00
7 s	Nitrobenzene-d5	1.010	1.172	-16.0	75	0.00
8 i	Naphthalene-d8	1.000	1.000	0.0	66	0.00
9 t	Naphthalene	1.030	0.949	7.9	61	0.00
10 t	Hexachlorobutadiene	0.193	0.209	-8.3	72	0.00
11 t	2-Methylnaphthalene	0.647	0.611	5.6	62	0.00
12 t	1-Methylnaphthalene	0.634	0.600	5.4	62	0.00
13 s	2-Fluorobiphenyl	0.791	0.751	5.1	64	0.00
14 t	2-Chloronaphthalene	0.684	0.657	3.9	63	0.00
15 t	Acenaphthylene	0.984	1.050	-6.7	67	0.00
16 i	Acenaphthene-d10	1.000	1.000	0.0	70	0.00
17 t	Acenaphthene	1.364	1.186	13.0	61	0.00
18 t	Fluorene	1.436	1.327	7.6	64	0.00
19 s	2,4,6-Tribromophenol	* 30.000	28.430	5.2	65	0.00
20 i	Phenanthrene-d10	1.000	1.000	0.0	74	0.00
21 t	4,6-Dinitro-o-cresol	* 5.000	8.565	-71.3#	134	0.00
22 t	Hexachlorobenzene	0.239	0.213	10.9	66	0.00
23 t	Pentachlorophenol	* 5.000	4.893	2.1	72	0.00
24 t	Phenanthrene	1.099	0.938	14.6	64	0.00
25 t	Anthracene	1.032	0.876	15.1	60	0.00
26 s	O-Terphenyl-MS	0.553	0.505	8.7	67	0.00
27 t	Fluoranthene	1.182	1.134	4.1	68	0.00
28 t	Pyrene	1.227	1.198	2.4	69	0.00
29 s	4-Terphenyl-d14	0.821	0.825	-0.5	75	0.00
30 i	Chrysene-d12	1.000	1.000	0.0	85	0.00
31 t	Benzo[a]anthracene	1.302	1.155	11.3	75	0.00
32 t	Chrysene	1.368	1.129	17.5	70	0.00
33 t	Bis(2-ethylhexyl)phthalate	* 5.000	4.655	6.9	81	0.00
34 i	Perylene-d12	1.000	1.000	0.0	80	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : ccv0801.D
 Acq On : 01 Aug 2023 07:32 am
 Operator : SV120:jjw
 Sample : WG1810218-3,32,, ICV 10146 (0730)
 Misc : WG1810218,, ical19770
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Aug 01 07:48:02 2023
 Quant Method : I:\8270SIM\sv120\230801ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 01 07:47:51 2023
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
35 t	Benzo[b]fluoranthene	1.215	1.153	5.1	70	0.00
36 t	Benzo[k]fluoranthene	1.188	1.078	9.3	69	0.00
37 t	Benzo[a]pyrene	0.990	0.953	3.7	70	0.00
38 t	Indeno[1,2,3-cd]pyrene	0.917	1.018	-11.0	83	0.00
39 t	Dibenzo[a,h]anthracene	1.053	1.042	1.0	71	0.00
40 t	Benzo[g,h,i]perylene	1.163	1.028	11.6	66	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : ccv0801.D
 Acq On : 01 Aug 2023 07:32 am
 Operator : SV120:jjw
 Sample : WG1810218-3,32,, ICV 10146 (0730)
 Misc : WG1810218,, ical19770
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Aug 01 07:48:02 2023
 Quant Method : I:\8270SIM\sv120\230801ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 01 07:47:51 2023
 Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) 1,4-Dichlorobenzene-d4	2.192	152	17544	4.000	ug/ml	0.00	
8) Naphthalene-d8	2.863	136	61932	4.000	ug/ml	0.00	
16) Acenaphthene-d10	3.847	164	35379	4.000	ug/ml	0.00	
20) Phenanthrene-d10	4.691	188	79892	4.000	ug/ml	0.00	
30) Chrysene-d12	6.260	240	85984	4.000	ug/ml	0.00	
34) Perylene-d12	7.464	264	91192	4.000	ug/ml	0.00	
System Monitoring Compounds							
2) 2-Fluorophenol	1.591	112	135754	29.854	ug/ml	0.00	
Spiked Amount	50.000	Range 15 - 110	Recovery =	59.71%			
3) Phenol-d6	2.007	99	162292	28.890	ug/ml	0.00	
Spiked Amount	50.000	Range 15 - 110	Recovery =	57.78%			
7) Nitrobenzene-d5	2.478	82	154161	34.785	ug/ml	0.00	
Spiked Amount	25.000	Range 30 - 130	Recovery =	139.14%#			
13) 2-Fluorobiphenyl	3.465	172	348704	28.487	ug/ml	0.00	
Spiked Amount	25.000	Range 30 - 130	Recovery =	113.95%			
19) 2,4,6-Tribromophenol	4.296	330	51481	28.430	ug/ml	0.00	
Spiked Amount	50.000	Range 15 - 110	Recovery =	56.86%			
26) O-Terphenyl-MS	4.912	230	302543	27.371	ug/ml	0.00	
Spiked Amount	20.000	Range 40 - 140	Recovery =	136.85%			
29) 4-Terphenyl-d14	5.618	244	494428	30.166	ug/ml	0.00	
Spiked Amount	25.000	Range 30 - 130	Recovery =	120.66%			
Target Compounds							
							Qvalue
4) Hexachloroethane	2.452	117	10209	4.822	ug/ml		82
5) Bis(2-chloroethyl)ether	2.056	93	22887	4.804	ug/ml		93
6) n-nitrosodi-n-propylamine	2.397	70	15578	4.881	ug/ml		100
9) Naphthalene	2.874	128	73499	4.609	ug/ml		100
10) Hexachlorobutadiene	2.947	225	16200	5.422	ug/ml		100
11) 2-Methylnaphthalene	3.260	142	47325	4.726	ug/ml		99
12) 1-Methylnaphthalene	3.312	142	46428	4.732	ug/ml		99
14) 2-Chloronaphthalene	3.532	162	50881	4.804	ug/ml		100
15) Acenaphthylene	3.763	152	81271	5.332	ug/ml		100
17) Acenaphthene	3.863	153	52442	4.348	ug/ml		96
18) Fluorene	4.159	166	58667	4.620	ug/ml		99
21) 4,6-Dinitro-o-cresol	4.195	198	9366	8.565	ug/ml		91
22) Hexachlorobenzene	4.479	284	21307	4.464	ug/ml		94
23) Pentachlorophenol	4.592	266	10175	4.893	ug/ml		99
24) Phenanthrene	4.703	178	93651	4.265	ug/ml		100
25) Anthracene	4.732	178	87442	4.242	ug/ml		100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : ccv0801.D
 Acq On : 01 Aug 2023 07:32 am
 Operator : SV120:jjw
 Sample : WG1810218-3,32,, ICV 10146 (0730)
 Misc : WG1810218,, ical19770
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Aug 01 07:48:02 2023
 Quant Method : I:\8270SIM\sv120\230801ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 01 07:47:51 2023
 Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Fluoranthene	5.390	202	113283	4.800	ug/ml	95
28) Pyrene	5.523	202	119677	4.882	ug/ml	99
31) Benzo[a]anthracene	6.252	228	124097	4.433	ug/ml	100
32) Chrysene	6.278	228	121366	4.127	ug/ml	99
33) Bis(2-ethylhexyl)phtha...	6.278	149	64147	4.655	ug/ml	98
35) Benzo[b]fluoranthene	7.097	252	131404	4.744	ug/ml	100
36) Benzo[k]fluoranthene	7.120	252	122918	4.540	ug/ml	100
37) Benzo[a]pyrene	7.404	252	108608	4.814	ug/ml	99
38) Indeno[1,2,3-cd]pyrene	8.686	276	116077	5.553	ug/ml	91
39) Dibenzo[a,h]anthracene	8.718	278	118823M6	4.951	ug/ml	
40) Benzo[g,h,i]perylene	9.033	276	117186	4.418	ug/ml#	89

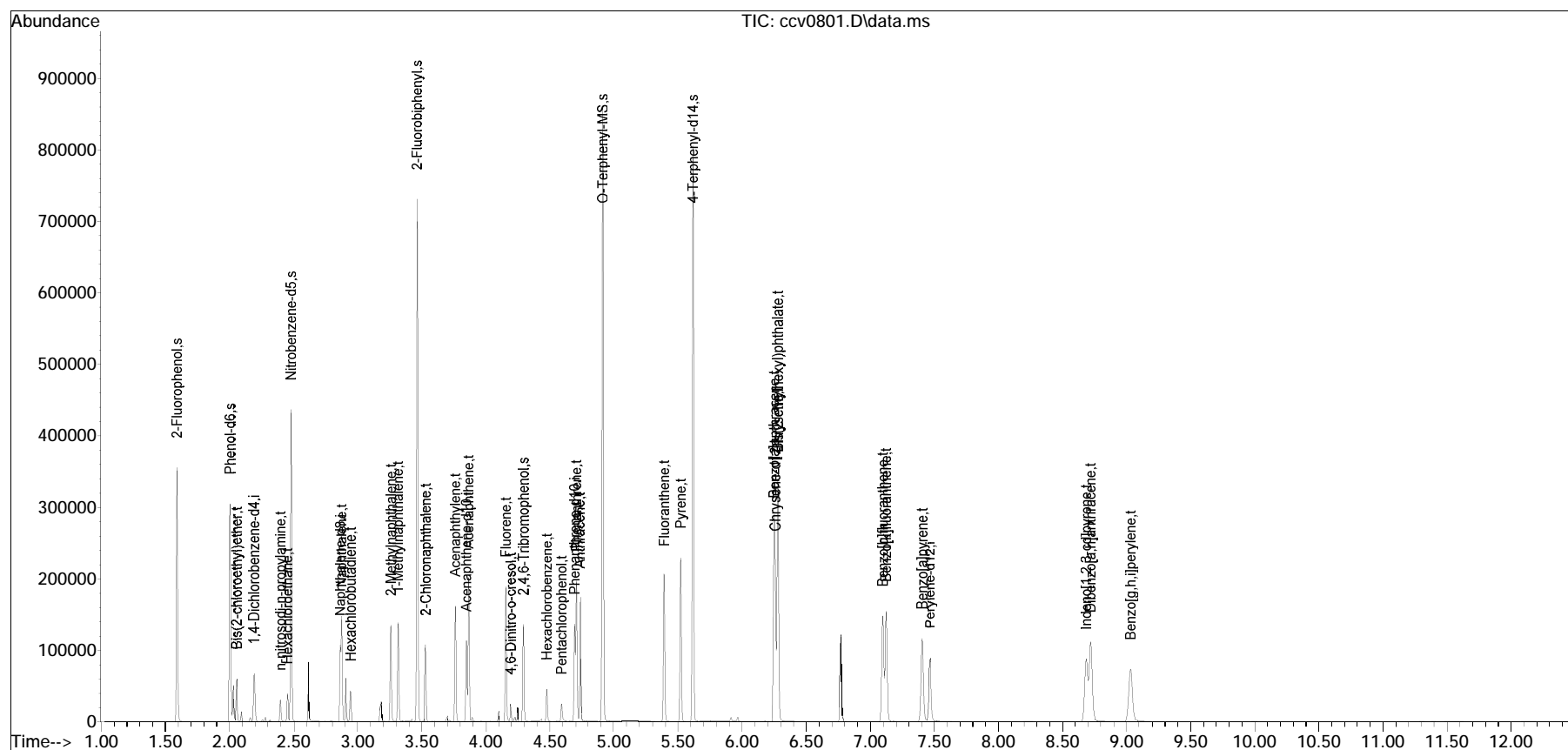
(#) = qualifier out of range (m) = manual integration (+) = signals summed

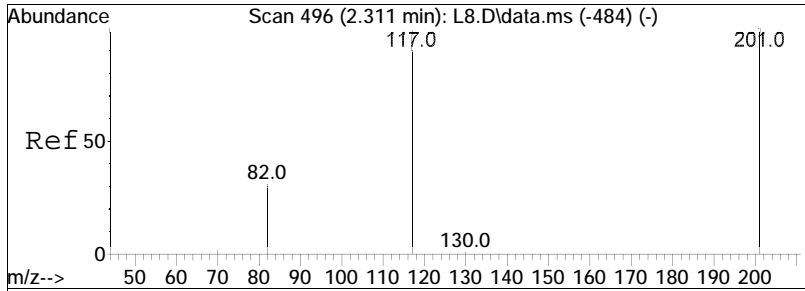
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : ccv0801.D
 Acq On : 01 Aug 2023 07:32 am
 Operator : SV120:jjw
 Sample : WG1810218-3,32,, ICV 10146 (0730)
 Misc : WG1810218,, ical19770
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Aug 01 07:48:02 2023
 Quant Method : I:\8270SIM\sv120\230801ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 01 07:47:51 2023
 Response via : Initial Calibration

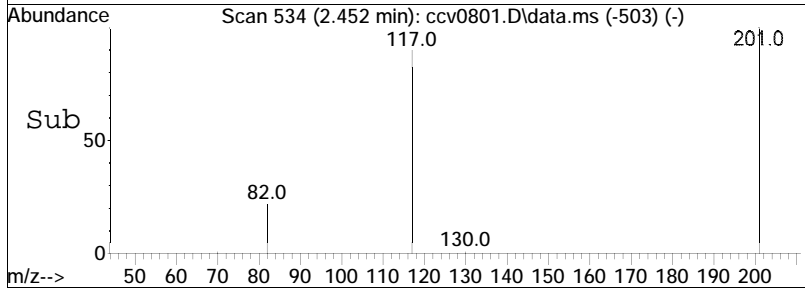
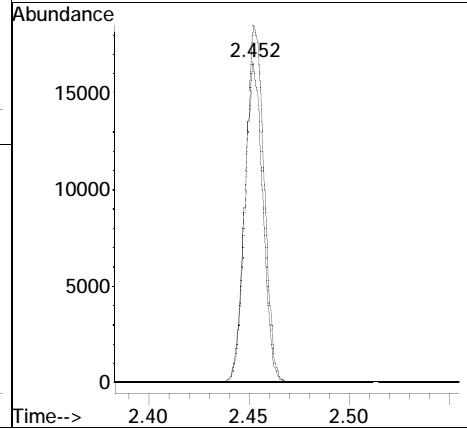
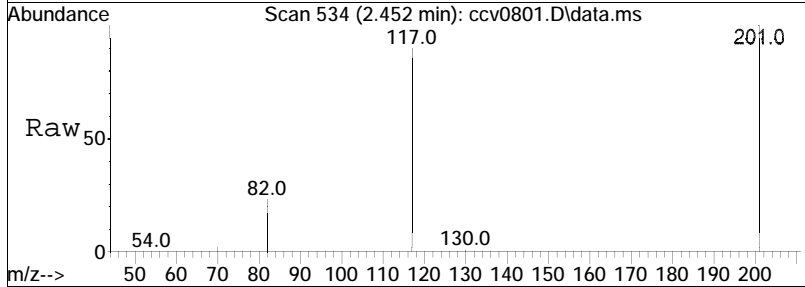
Sub List : Default - All compounds listed

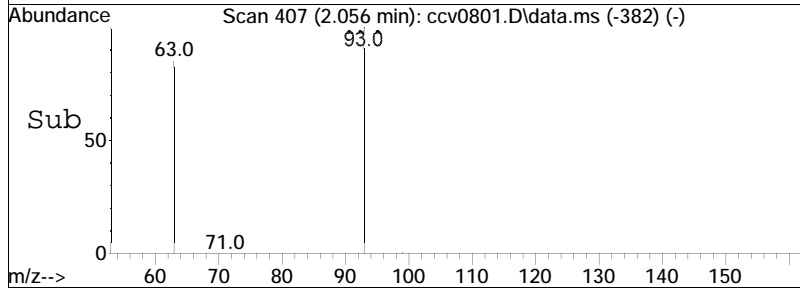
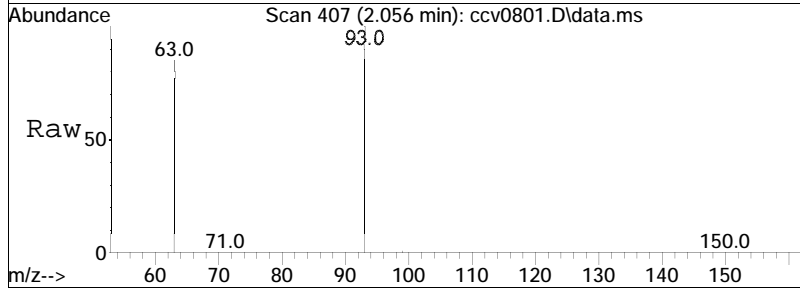
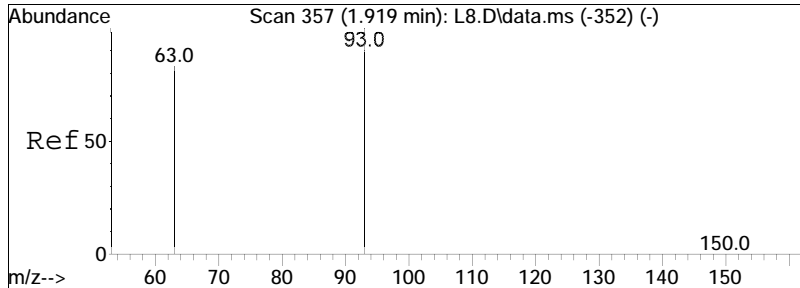




#4
 Hexachloroethane
 Concen: 4.82 ug/ml
 RT: 2.452 min Scan# 534
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

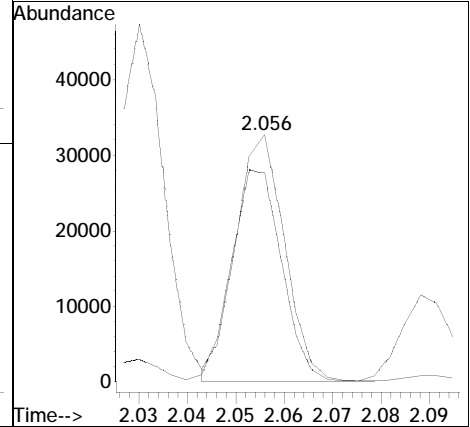
Tgt Ion: 117 Resp: 10209
 Ion Ratio Lower Upper
 117 100
 201 113.7 77.1 115.7

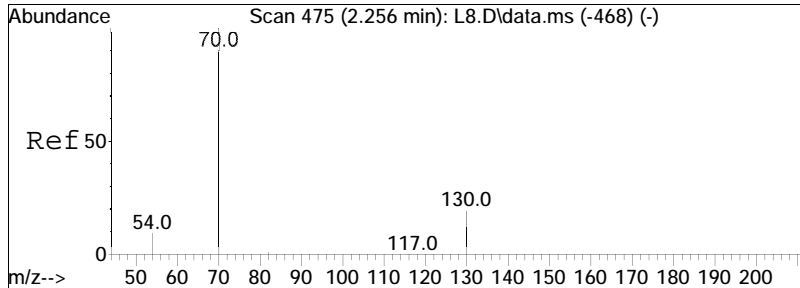




#5
 Bis(2-chloroethyl)ether
 Concen: 4.80 ug/ml
 RT: 2.056 min Scan# 407
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

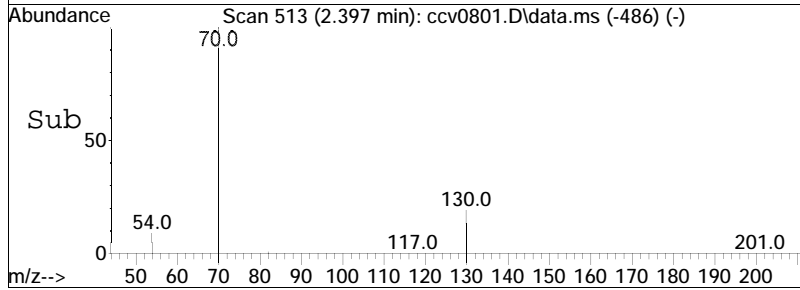
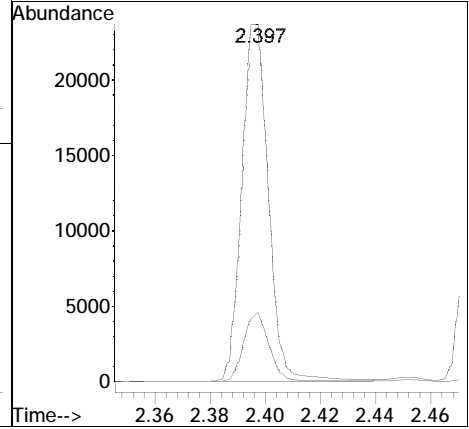
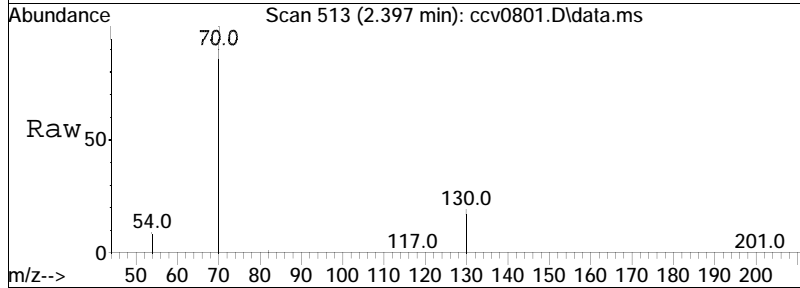
Tgt Ion	Resp	Lower	Upper
93	100		
63	88.0	65.5	98.3

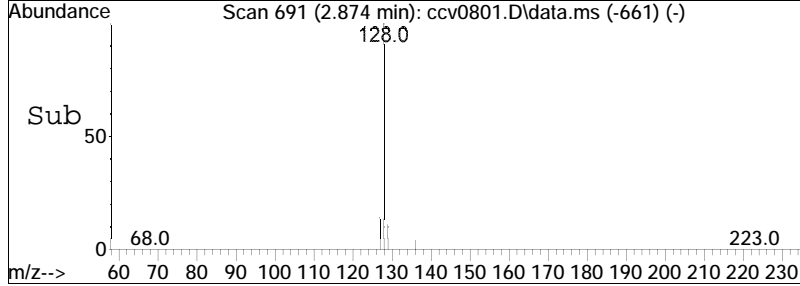
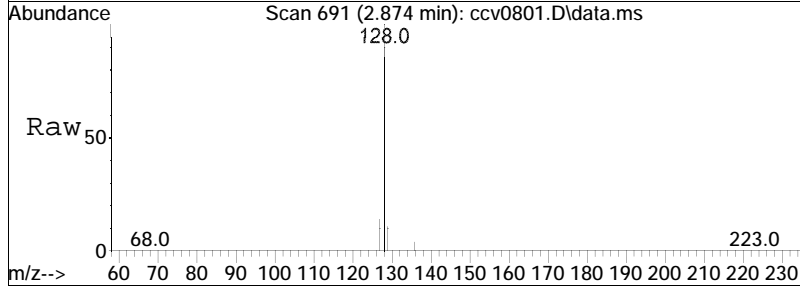
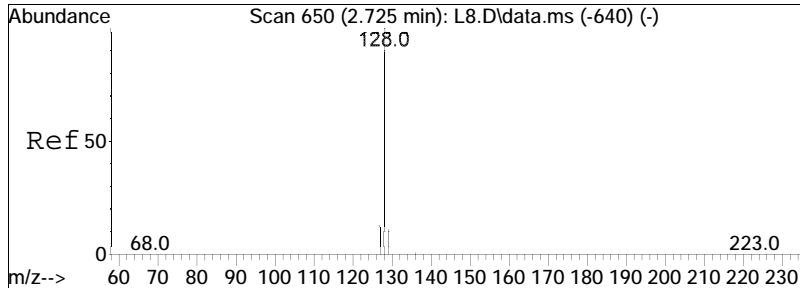




#6
 n-nitrosodi-n-propylamine
 Concen: 4.88 ug/ml
 RT: 2.397 min Scan# 513
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

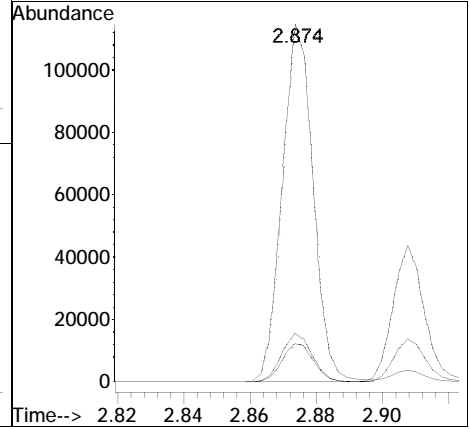
Tgt Ion	Resp	Lower	Upper
70	15578		
70	100		
130	18.6	15.0	22.4

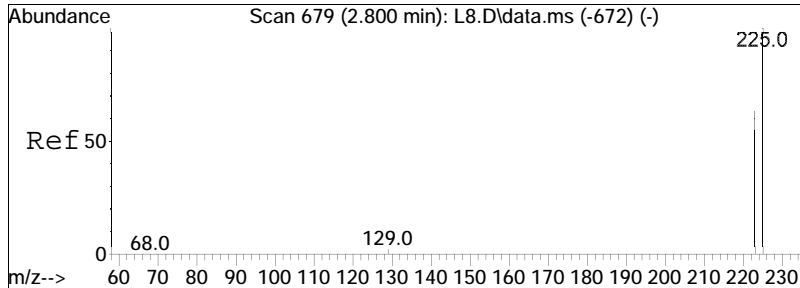




#9
 Naphthalene
 Concen: 4.61 ug/ml
 RT: 2.874 min Scan# 691
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

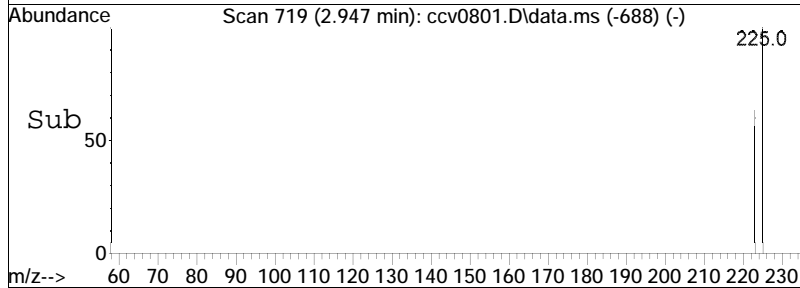
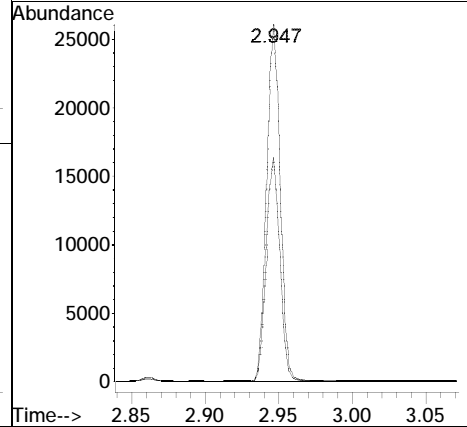
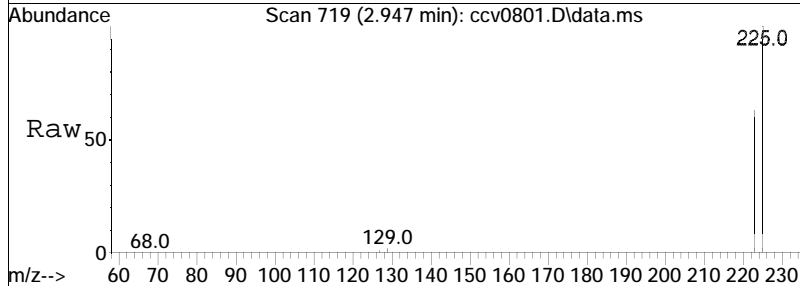
Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.5	10.8	16.2

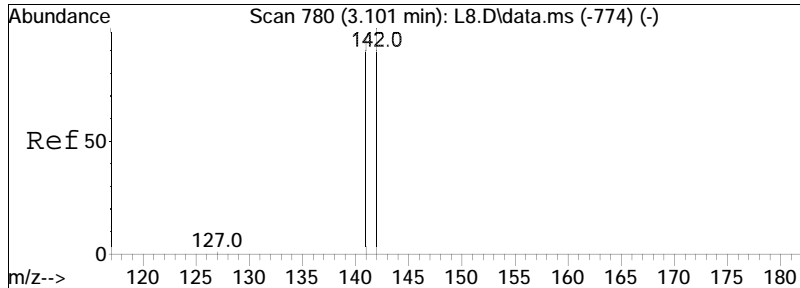




#10
 Hexachlorobutadiene
 Concen: 5.42 ug/ml
 RT: 2.947 min Scan# 719
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

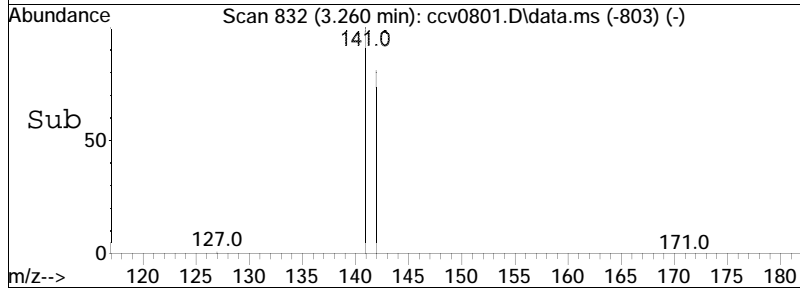
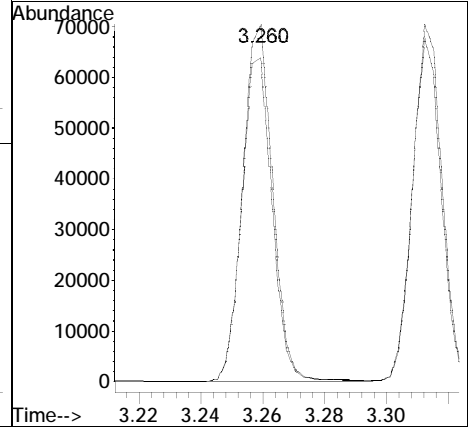
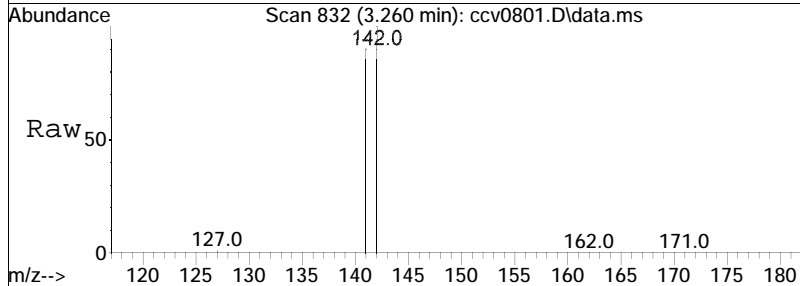
Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.4	75.6

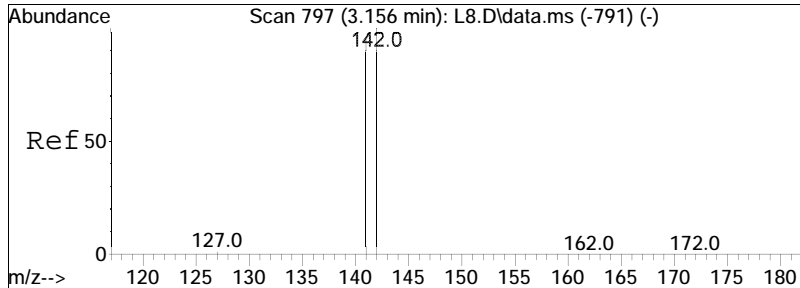




#11
 2-Methylnaphthalene
 Concen: 4.73 ug/ml
 RT: 3.260 min Scan# 832
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

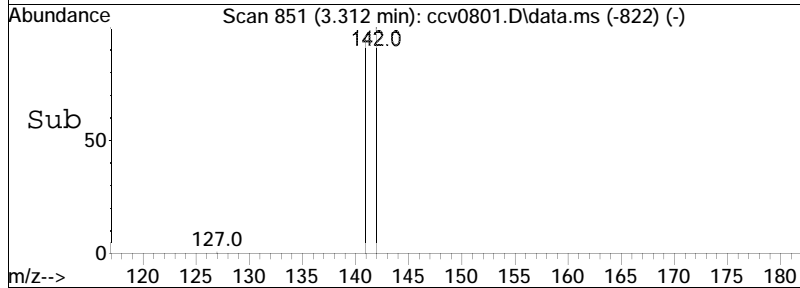
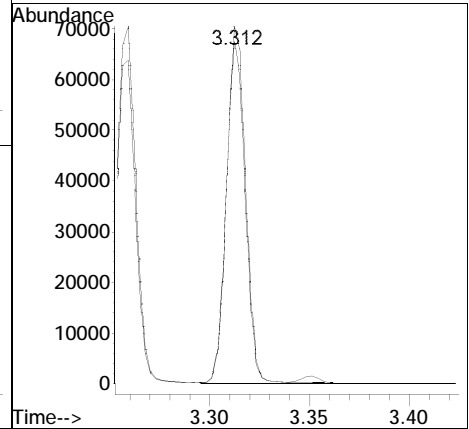
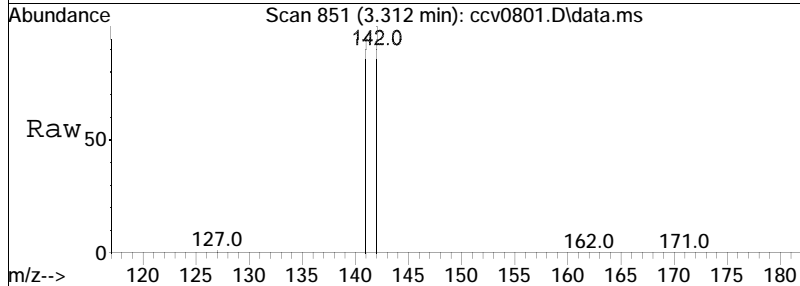
Tgt Ion	Resp	Lower	Upper
142	100		
141	92.3	74.2	111.4

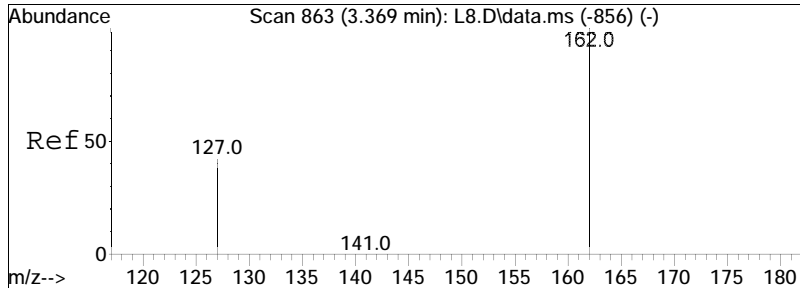




#12
 1-Methylnaphthalene
 Concen: 4.73 ug/ml
 RT: 3.312 min Scan# 851
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

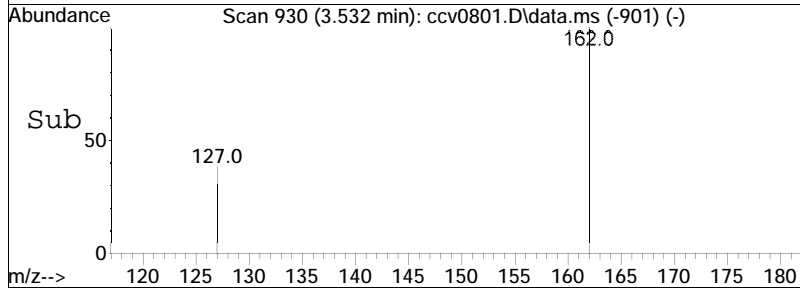
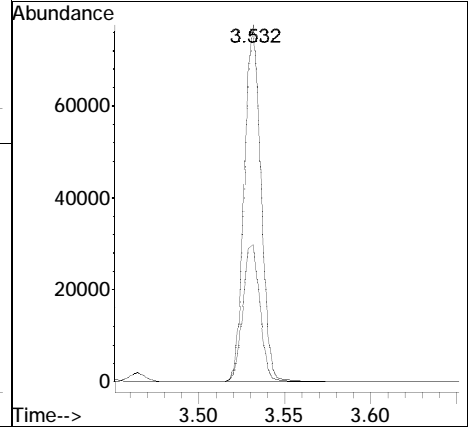
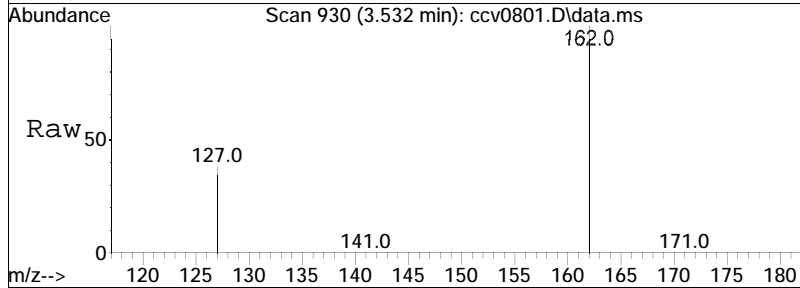
Tgt Ion	Resp	Lower	Upper
142	100		
141	95.1	76.7	115.1

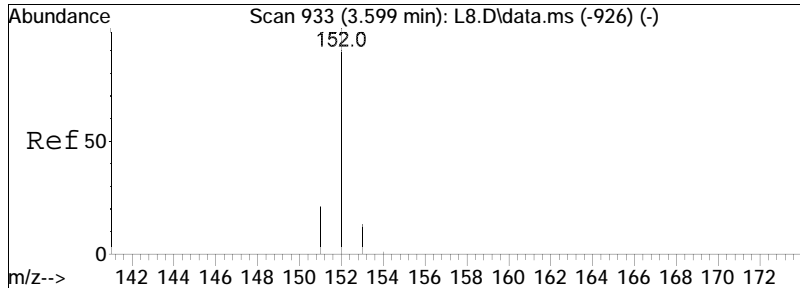




#14
 2-Chloronaphthalene
 Concen: 4.80 ug/ml
 RT: 3.532 min Scan# 930
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

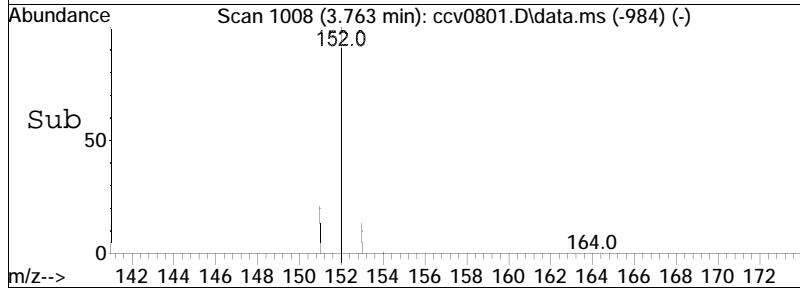
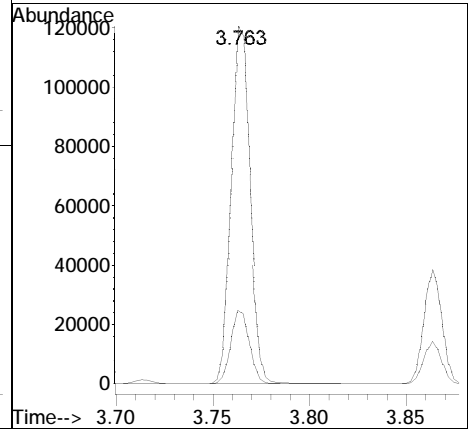
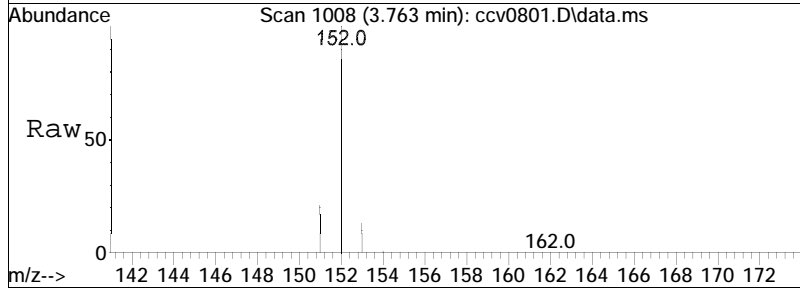
Tgt Ion	Resp	Lower	Upper
162	100		
127	39.6	31.5	47.3

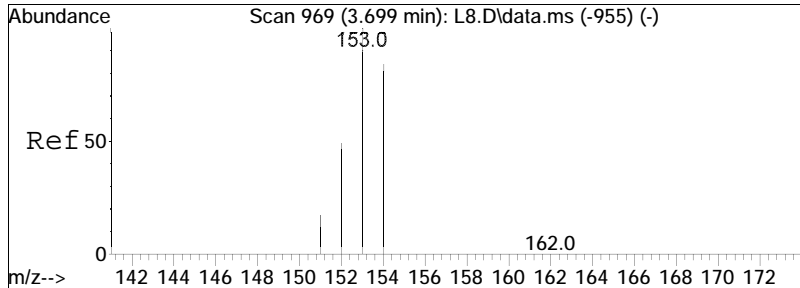




#15
 Acenaphthylene
 Concen: 5.33 ug/ml
 RT: 3.763 min Scan# 1008
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

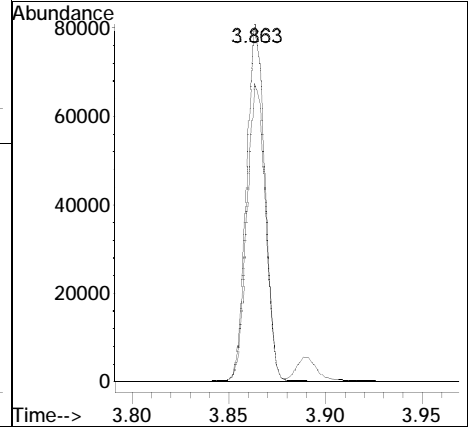
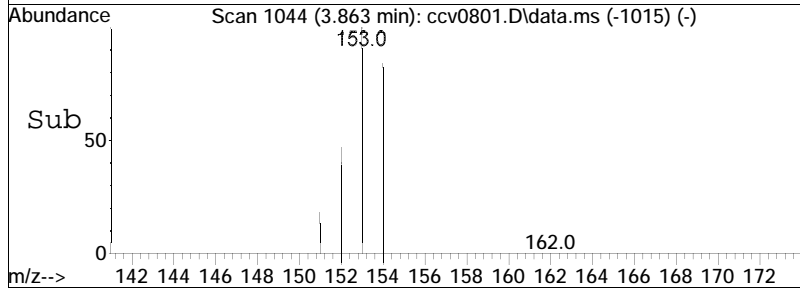
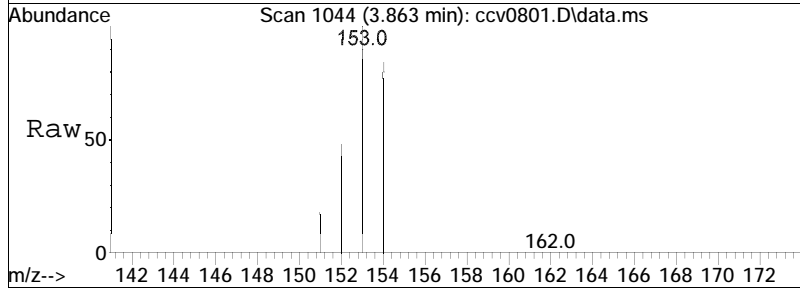
Tgt Ion	Resp	Lower	Upper
152	100		
151	20.3	16.3	24.5

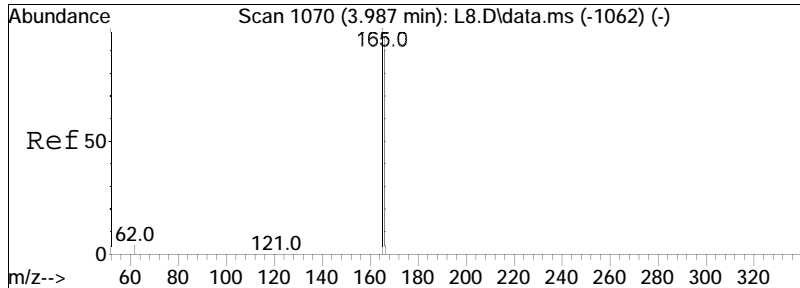




#17
 Acenaphthene
 Concen: 4.35 ug/ml
 RT: 3.863 min Scan# 1044
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

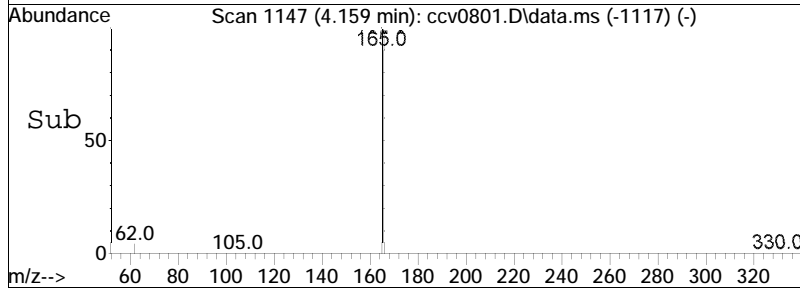
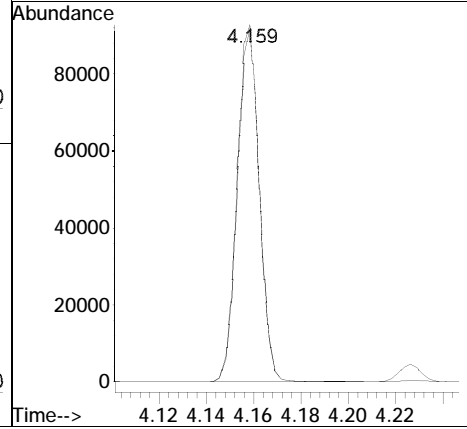
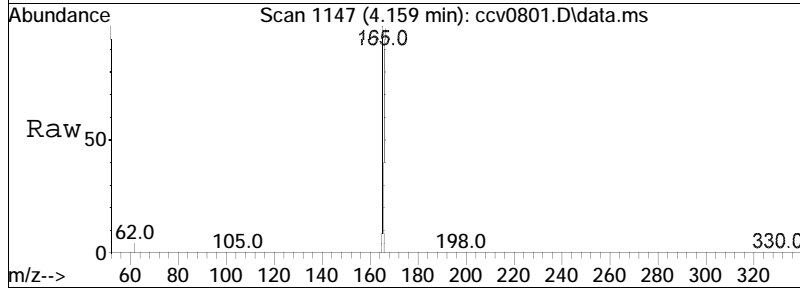
Tgt Ion	Resp	Lower	Upper
153	100		
154	84.5	70.8	106.2

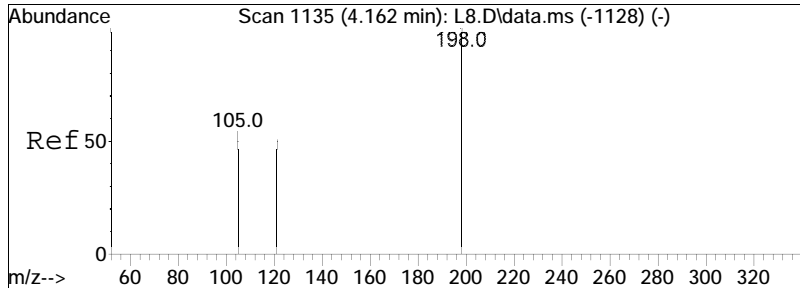




#18
 Fluorene
 Concen: 4.62 ug/ml
 RT: 4.159 min Scan# 1147
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

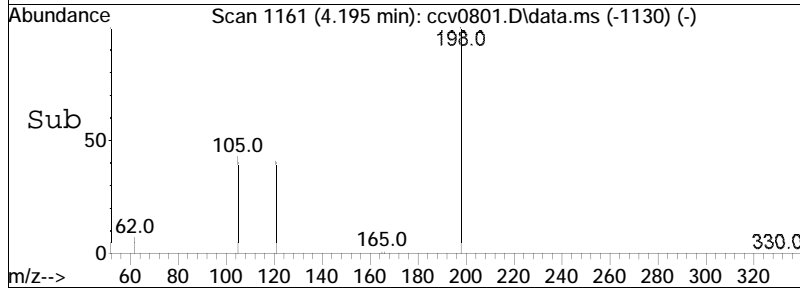
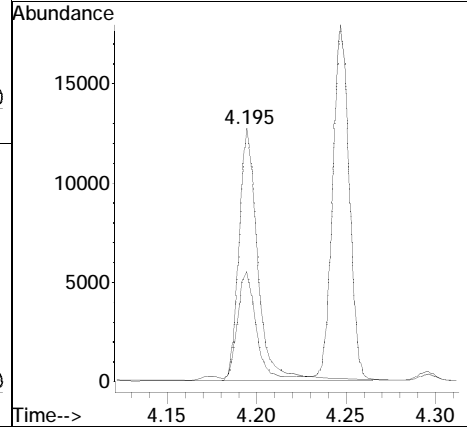
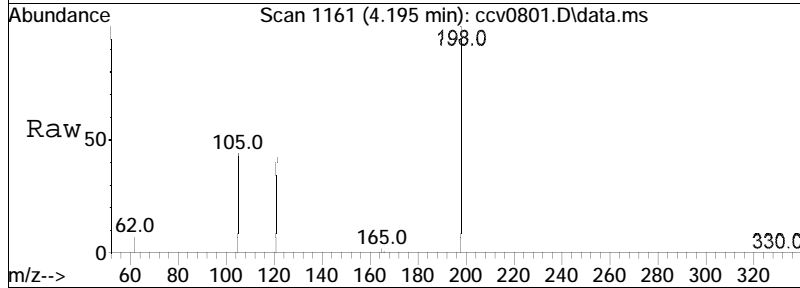
Tgt Ion	Resp	Lower	Upper
166	58667		
165	101.8	82.2	123.2

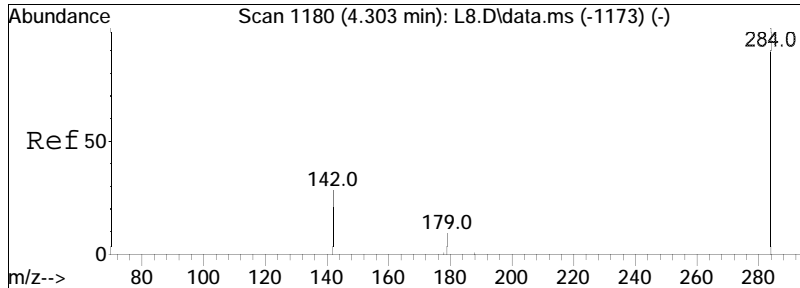




#21
 4,6-Dinitro-o-cresol
 Concen: 8.56 ug/ml
 RT: 4.195 min Scan# 1161
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

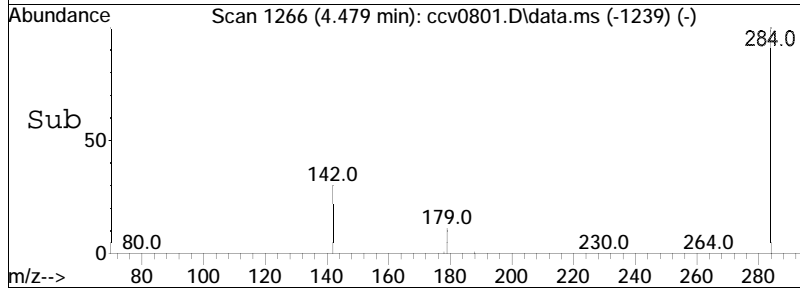
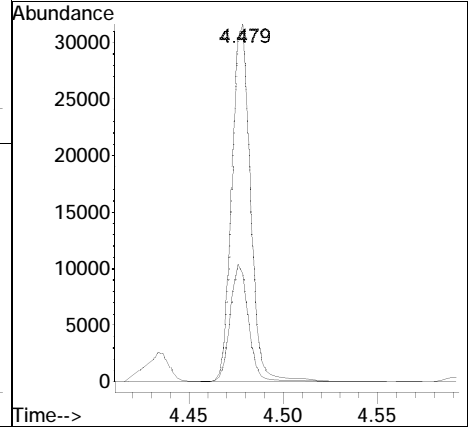
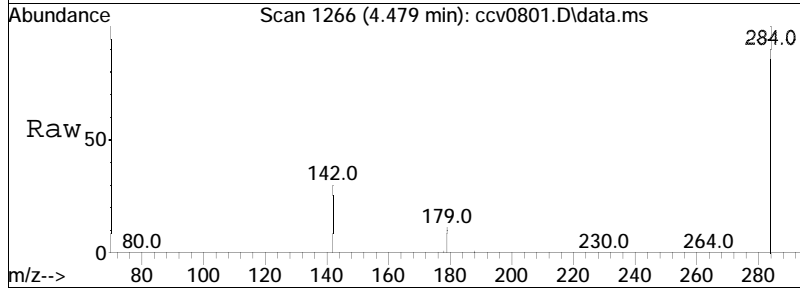
Tgt Ion	Ratio	Lower	Upper
198	100		
105	41.3	37.7	56.5

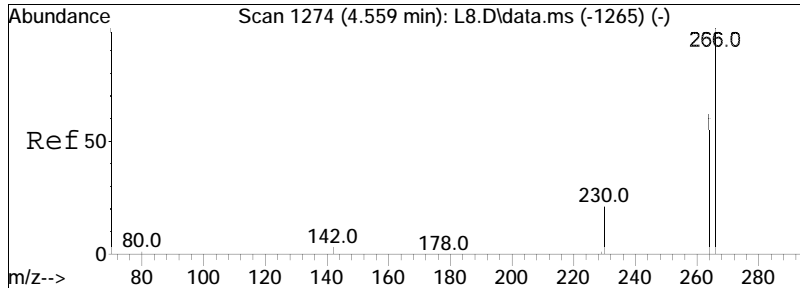




#22
 Hexachlorobenzene
 Concen: 4.46 ug/ml
 RT: 4.479 min Scan# 1266
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

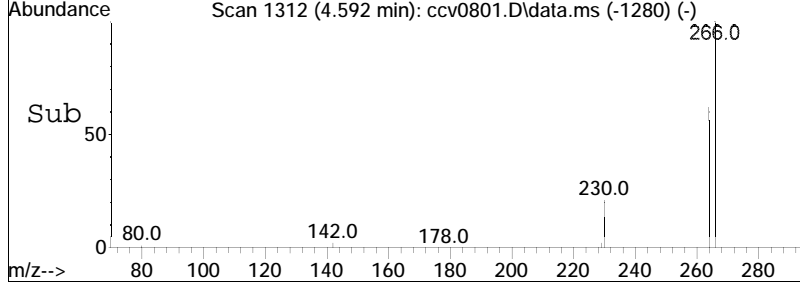
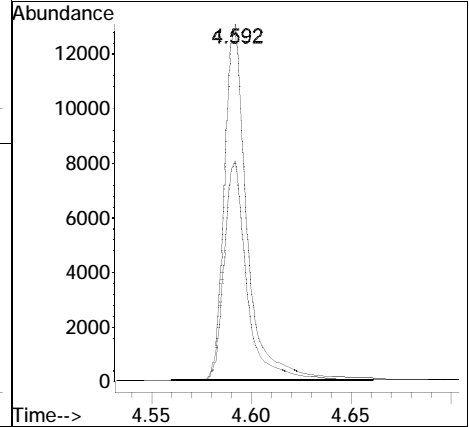
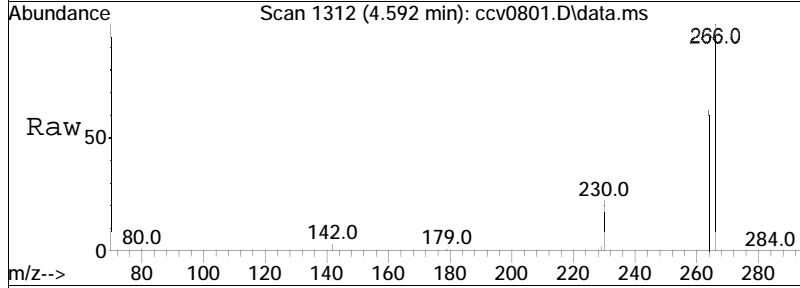
Tgt Ion: 284 Resp: 21307
 Ion Ratio Lower Upper
 284 100
 142 32.7 29.2 43.8

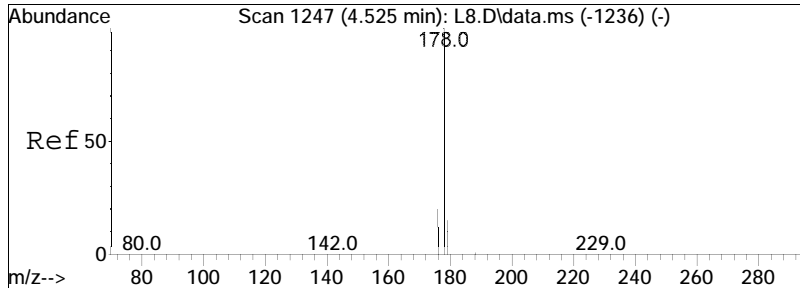




#23
 Pentachlorophenol
 Concen: 4.89 ug/ml
 RT: 4.592 min Scan# 1312
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

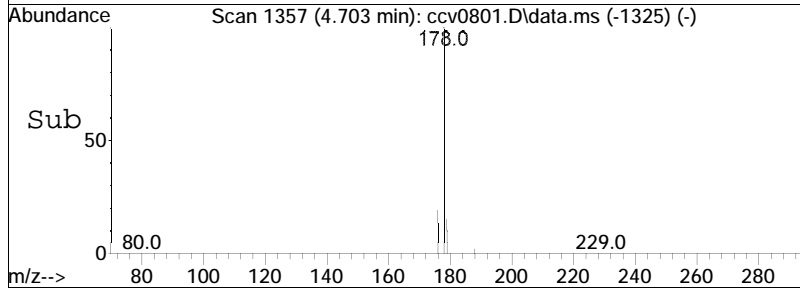
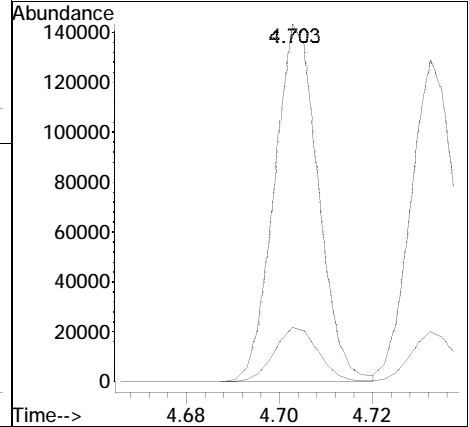
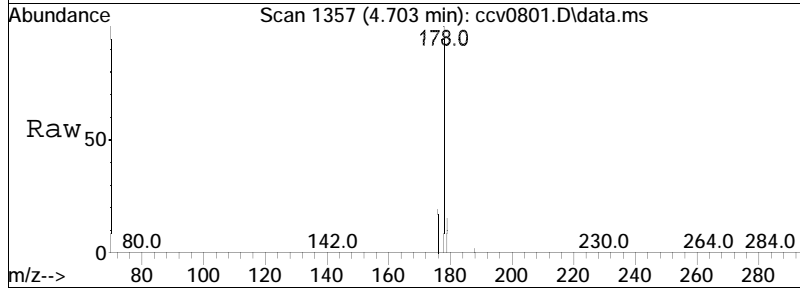
Tgt Ion	Resp	Lower	Upper
266	10175		
264	62.4	50.6	76.0

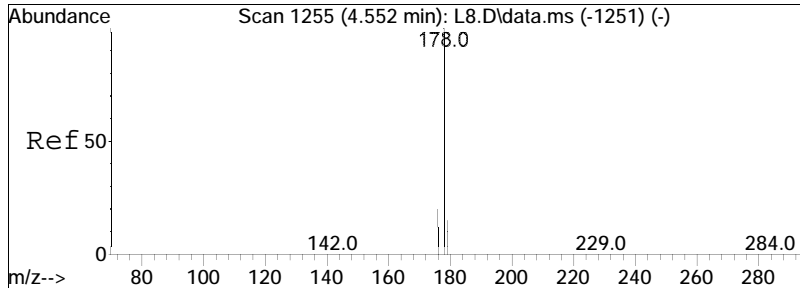




#24
 Phenanthrene
 Concen: 4.26 ug/ml
 RT: 4.703 min Scan# 1357
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

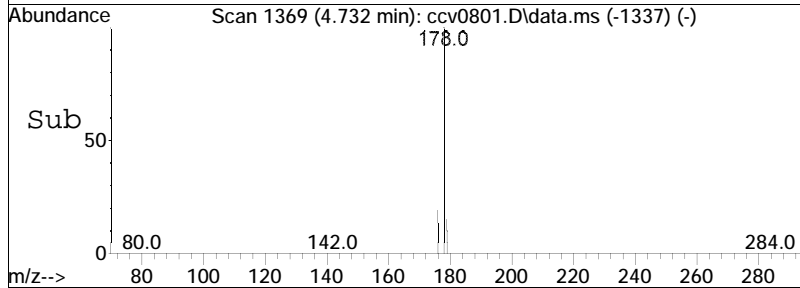
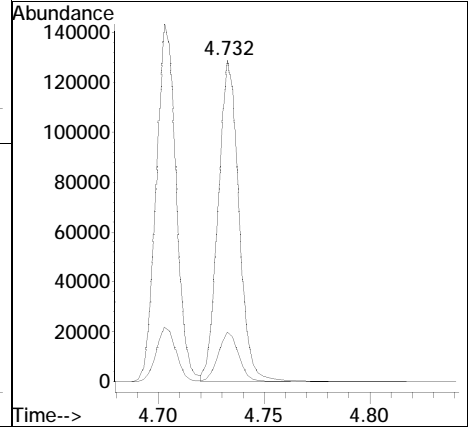
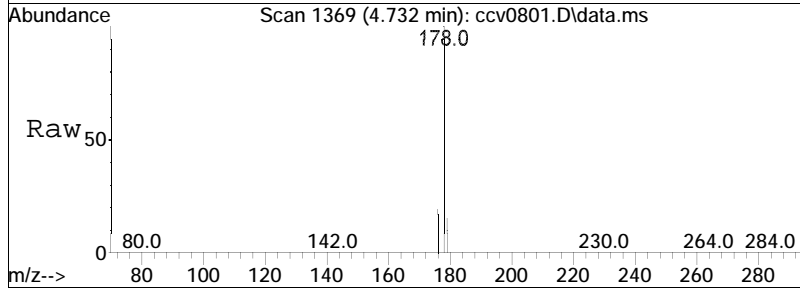
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.2	12.3	18.5

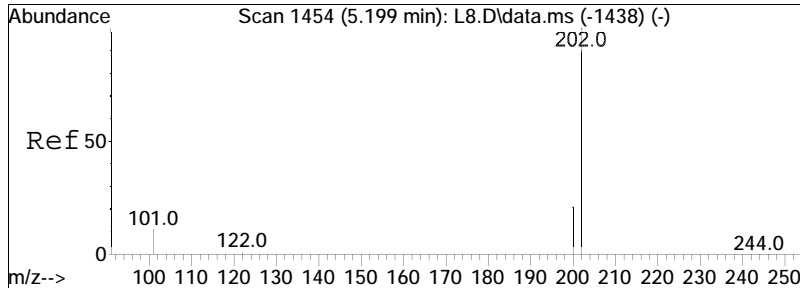




#25
 Anthracene
 Concen: 4.24 ug/ml
 RT: 4.732 min Scan# 1369
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

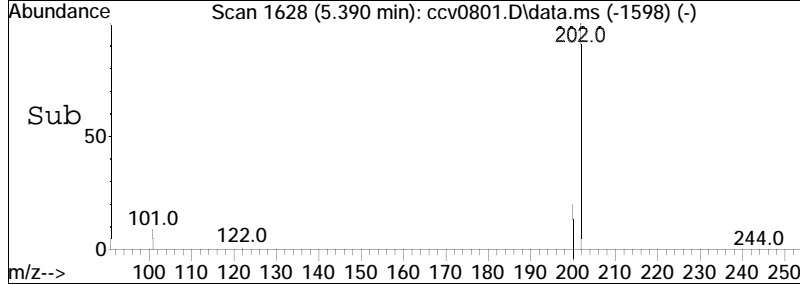
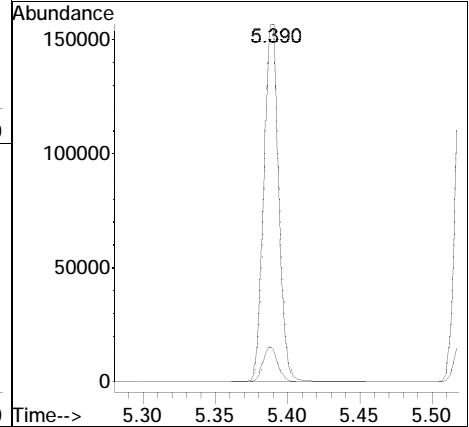
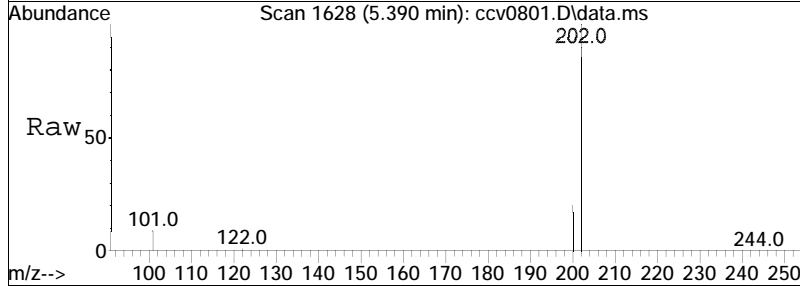
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.3	12.2	18.2

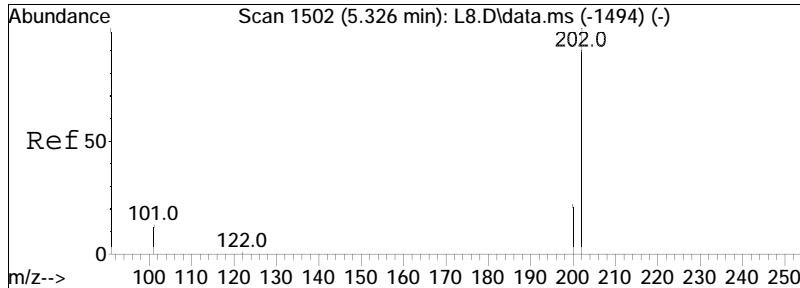




#27
 Fluoranthene
 Concen: 4.80 ug/ml
 RT: 5.390 min Scan# 1628
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

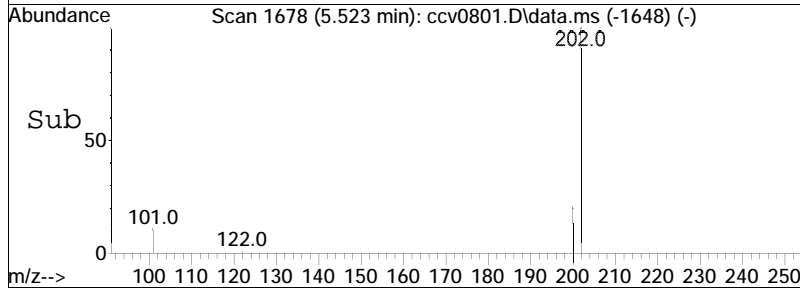
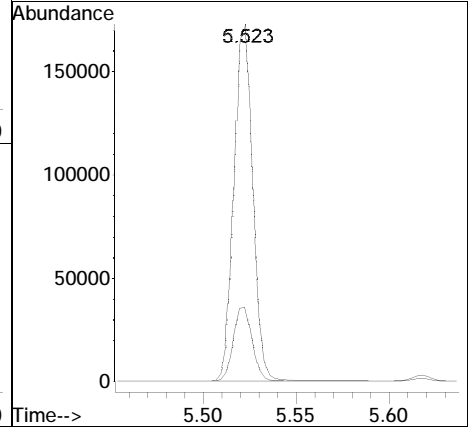
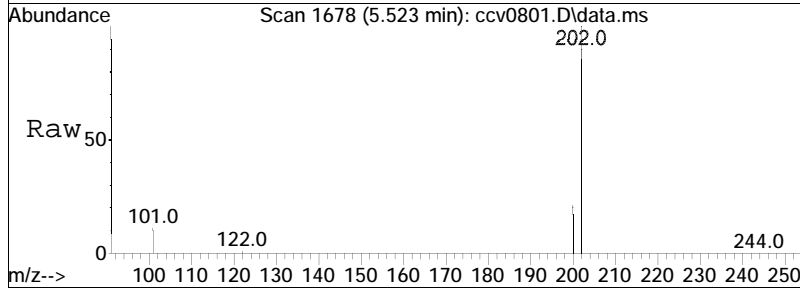
Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.5	9.3	13.9

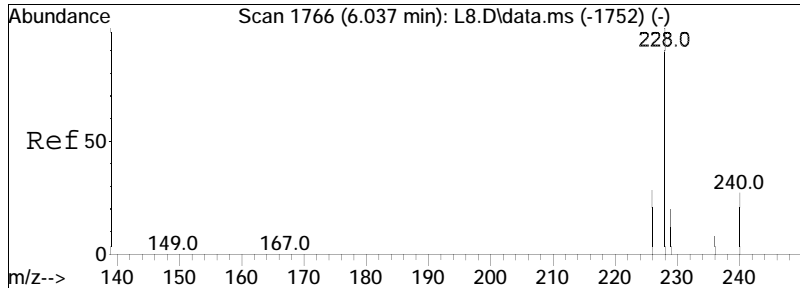




#28
 Pyrene
 Concen: 4.88 ug/ml
 RT: 5.523 min Scan# 1678
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

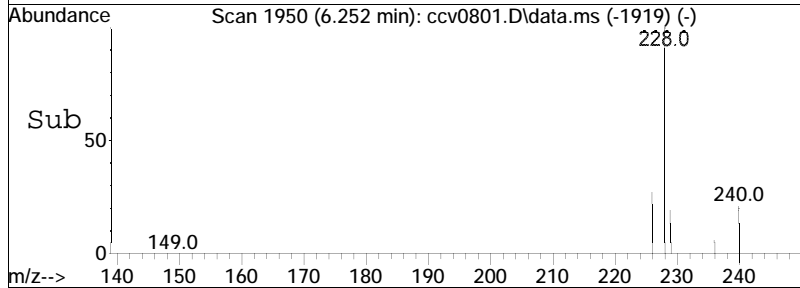
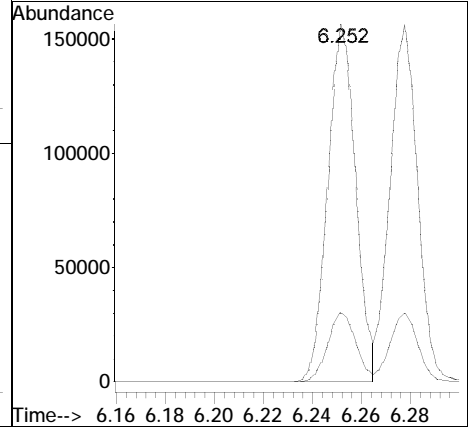
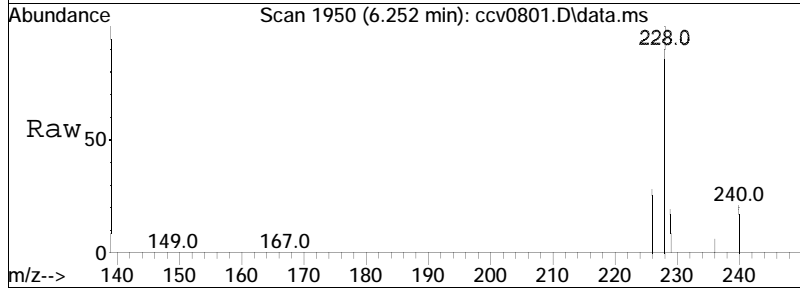
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.4	26.2

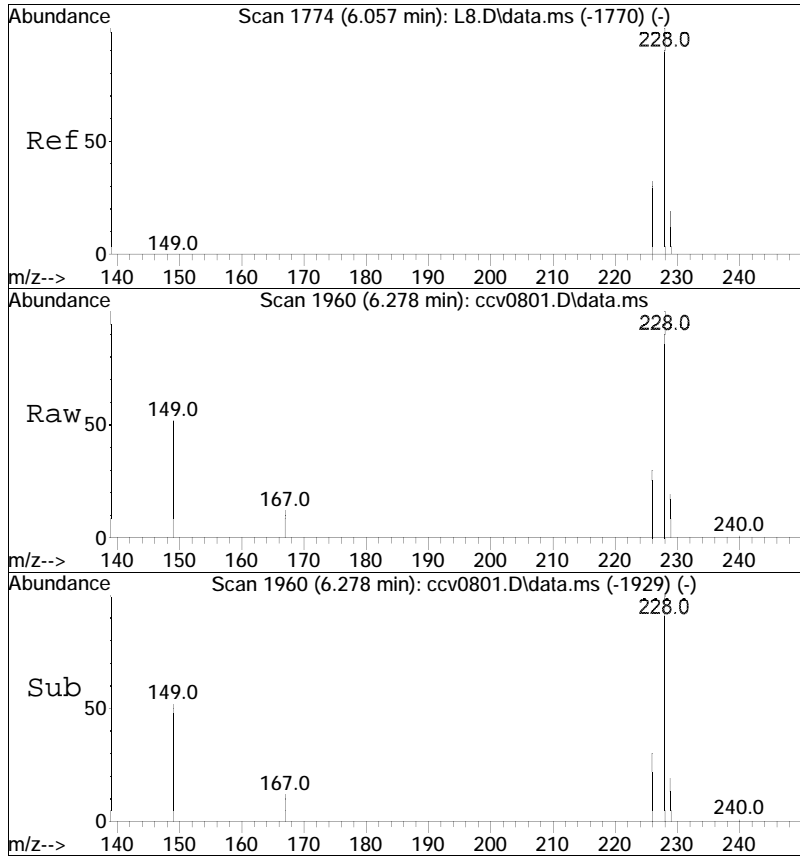




#31
 Benzo[a]anthracene
 Concen: 4.43 ug/ml
 RT: 6.252 min Scan# 1950
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

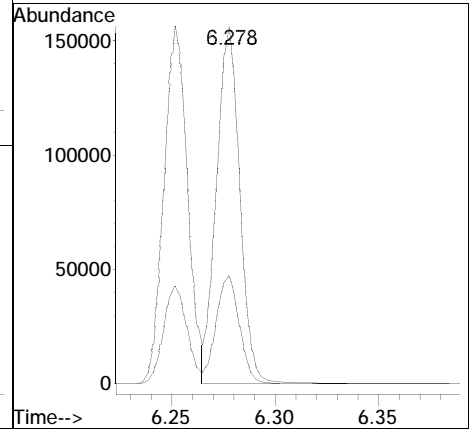
Tgt Ion	Resp	Lower	Upper
228	100		
229	19.5	15.6	23.4

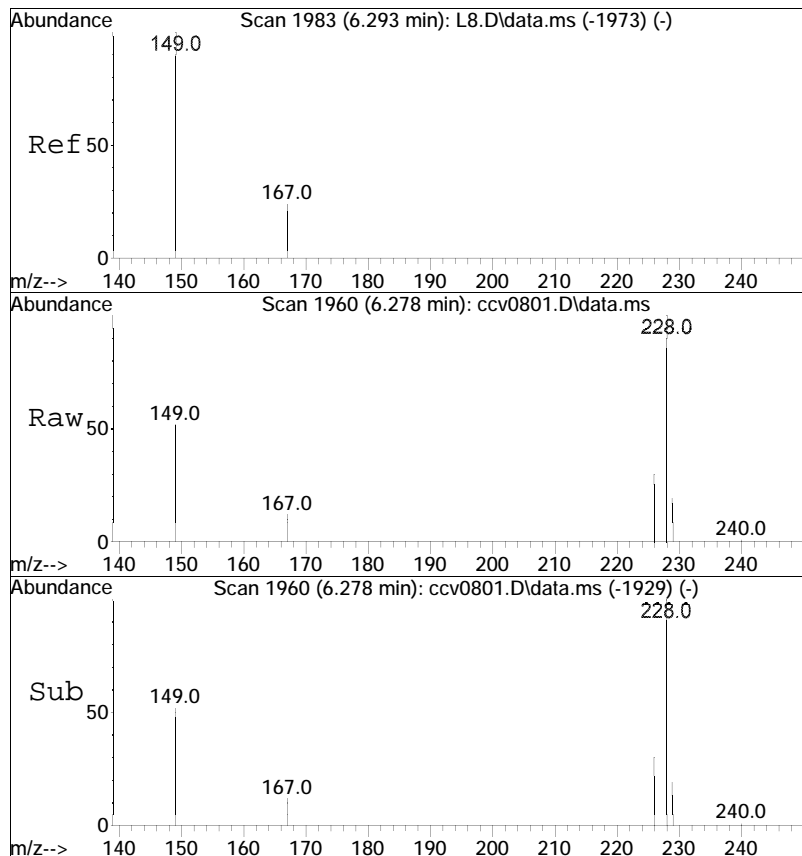




#32
 Chrysene
 Concen: 4.13 ug/ml
 RT: 6.278 min Scan# 1960
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

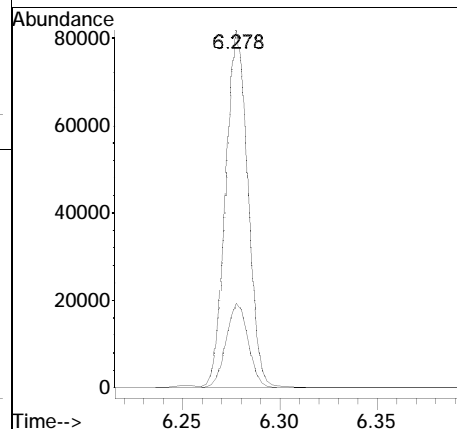
Tgt Ion	Resp	Lower	Upper
228	100		
226	30.5	24.9	37.3

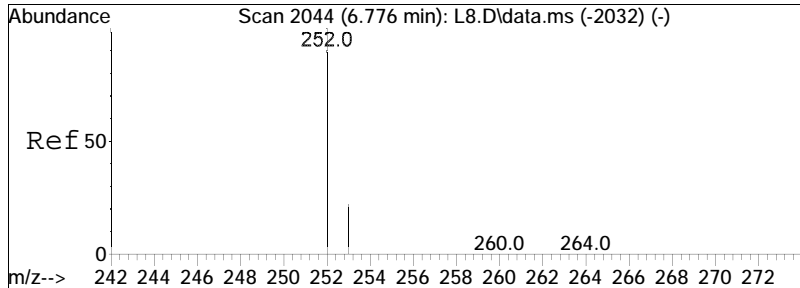




#33
 Bis(2-ethylhexyl)phthalate
 Concen: 4.66 ug/ml
 RT: 6.278 min Scan# 1960
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

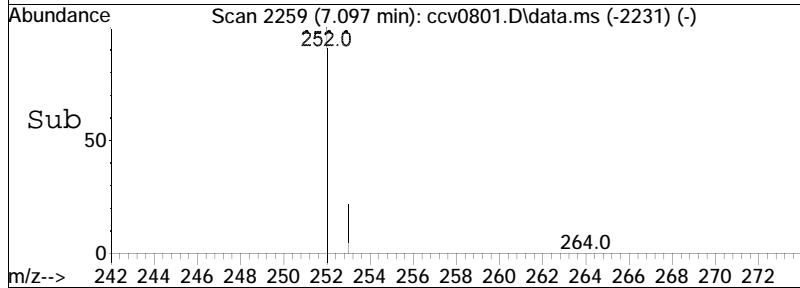
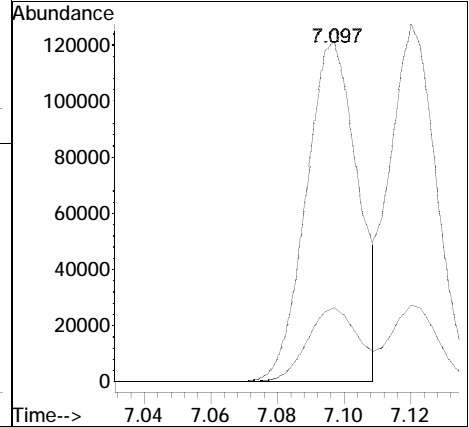
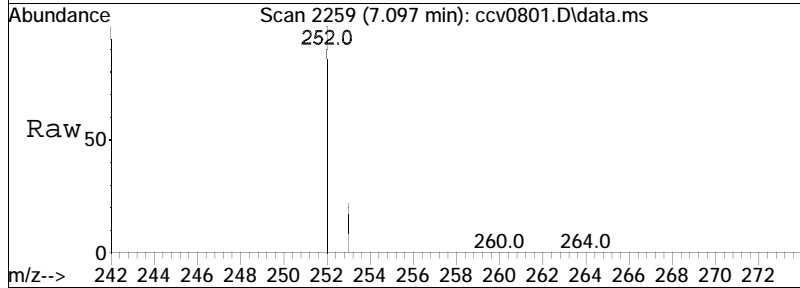
Tgt Ion	Resp	Lower	Upper
149	100		
167	23.7	18.2	27.2

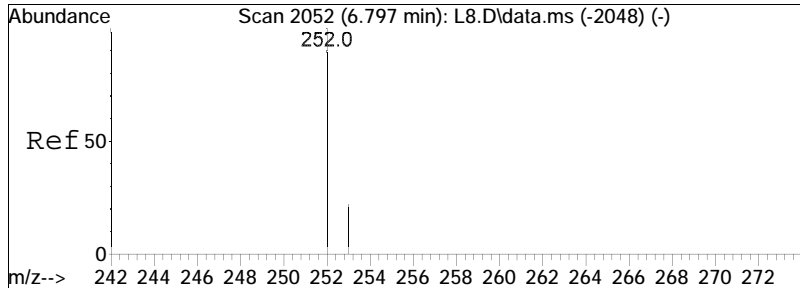




#35
 Benzo[b]fluoranthene
 Concen: 4.74 ug/ml
 RT: 7.097 min Scan# 2259
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

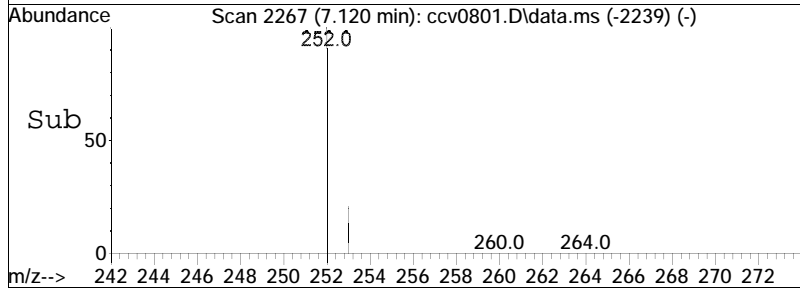
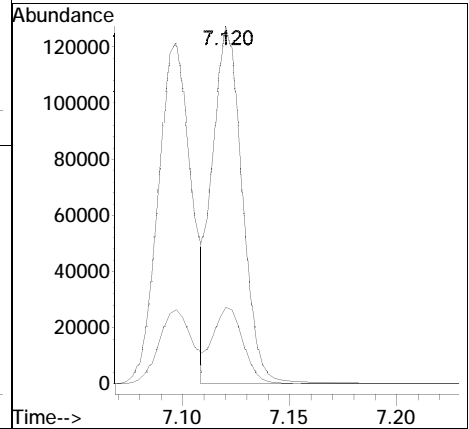
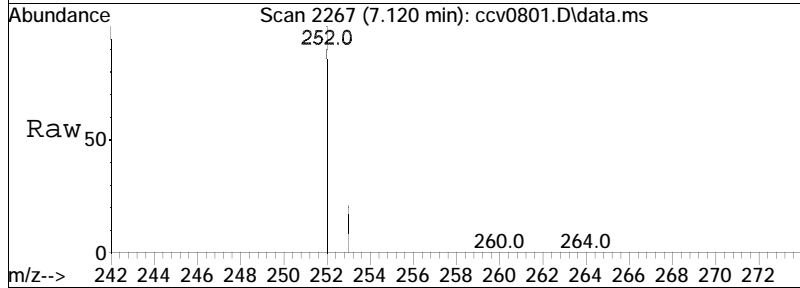
Tgt Ion	Resp	Lower	Upper
252	131404		
253	21.5	17.2	25.8

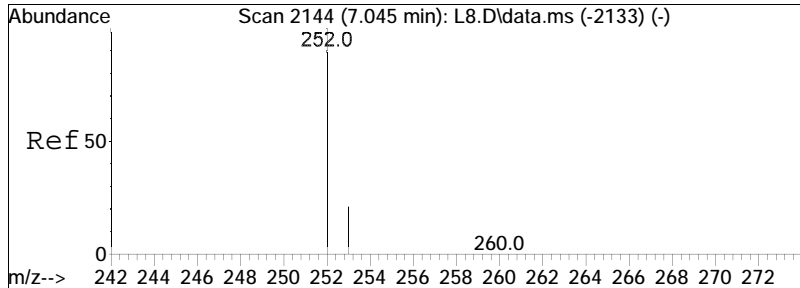




#36
 Benzo[k]fluoranthene
 Concen: 4.54 ug/ml
 RT: 7.120 min Scan# 2267
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

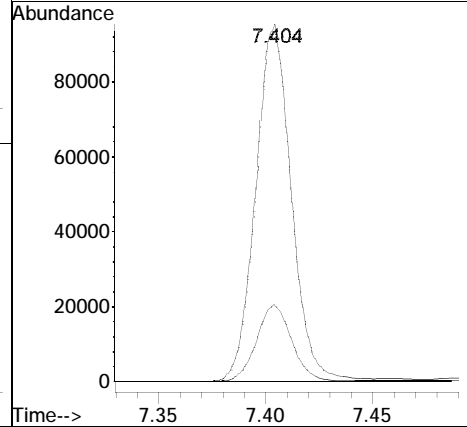
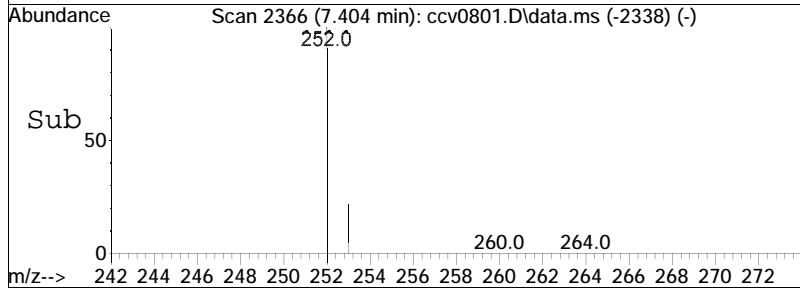
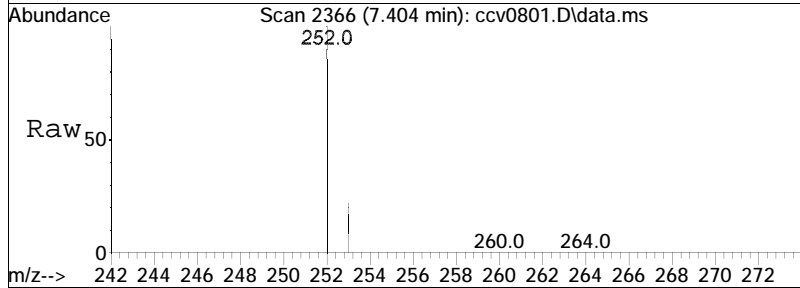
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.8	17.4	26.0

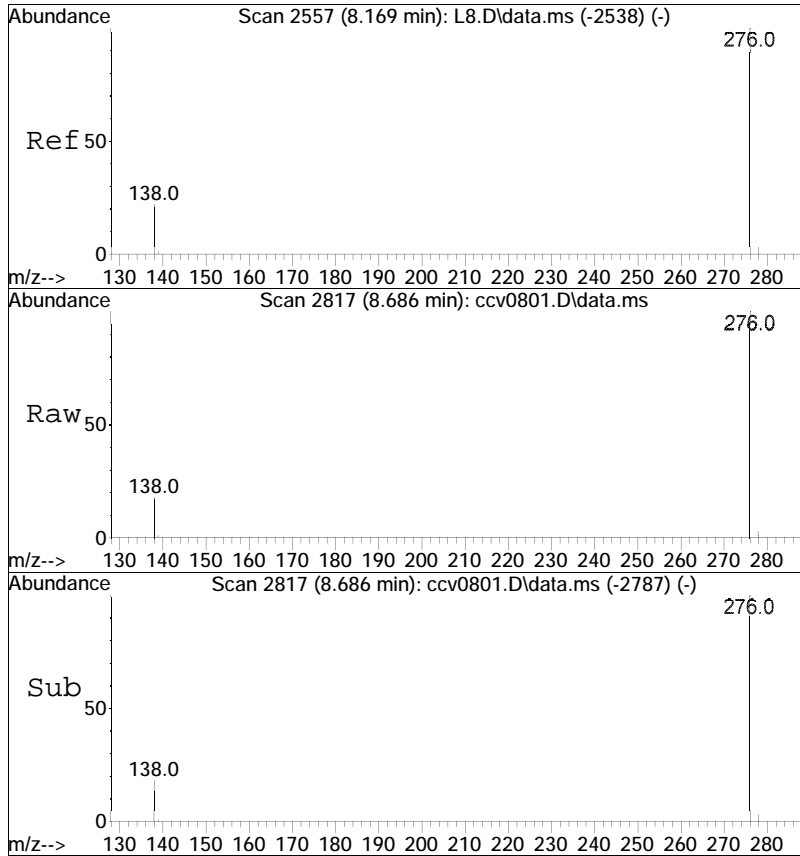




#37
 Benzo[a]pyrene
 Concen: 4.81 ug/ml
 RT: 7.404 min Scan# 2366
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

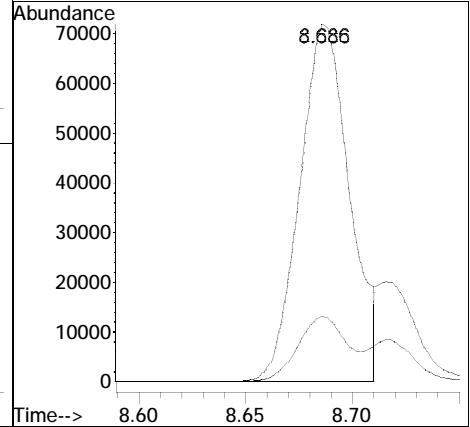
Tgt Ion	Resp	Lower	Upper
252	108608		
253	21.5	16.8	25.2

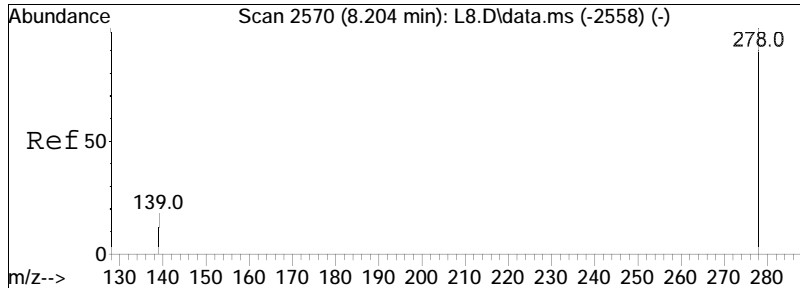




#38
 Indeno[1,2,3-cd]pyrene
 Concen: 5.55 ug/ml
 RT: 8.686 min Scan# 2817
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

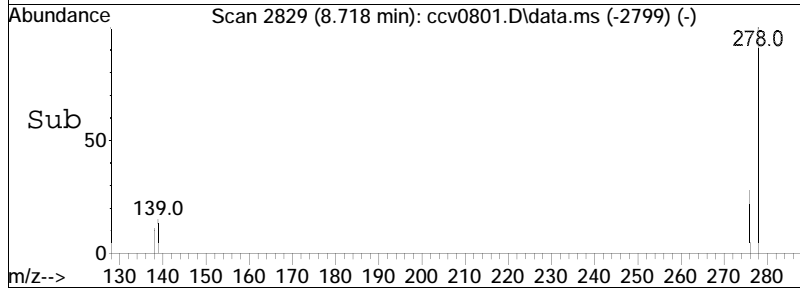
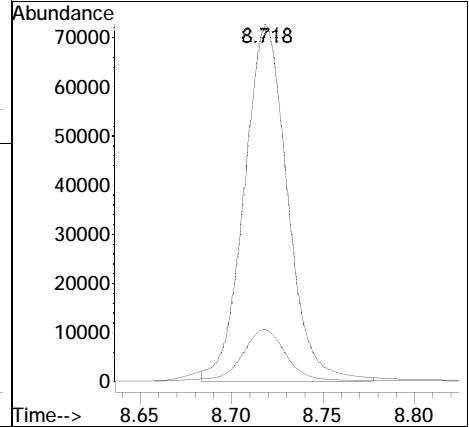
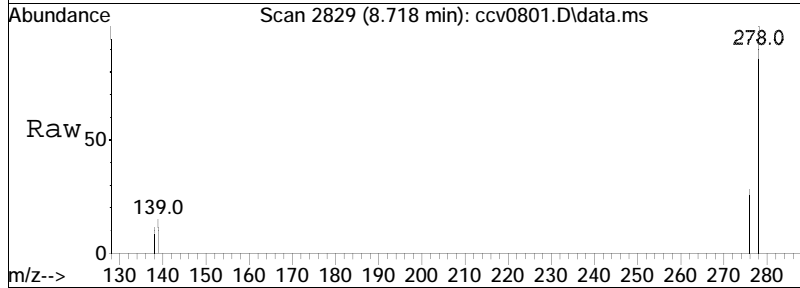
Tgt Ion	Resp	Lower	Upper
276	116077		
138	18.2	17.9	26.9

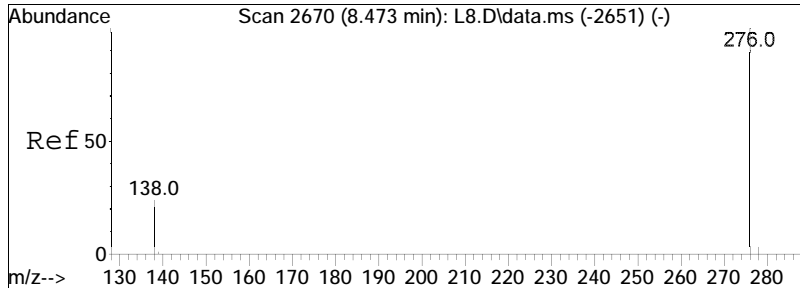




#39
 Dibenzo[a,h]anthracene
 Concen: 4.95 ug/ml M6
 RT: 8.718 min Scan# 2829
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

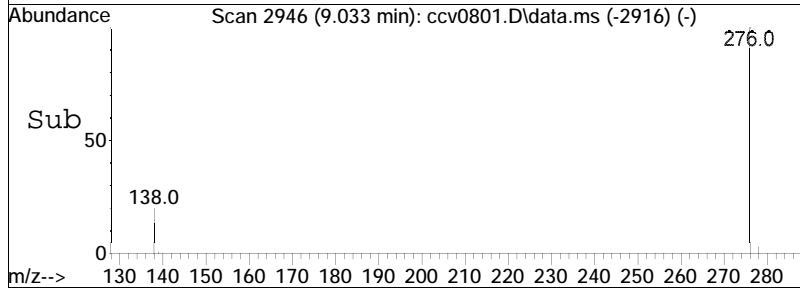
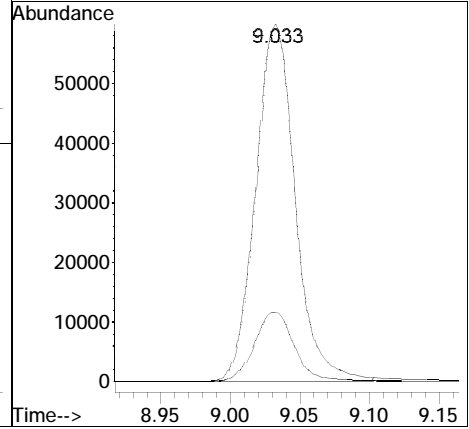
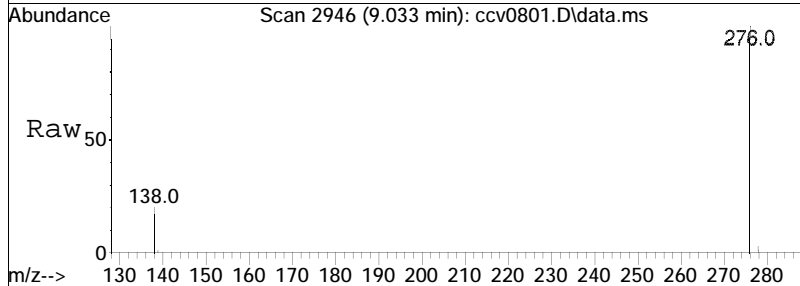
Tgt Ion	Resp	Lower	Upper
278	100		
139	14.9	15.9	23.9#





#40
 Benzo[g,h,i]perylene
 Concen: 4.42 ug/ml
 RT: 9.033 min Scan# 2946
 Delta R.T. 0.000 min
 Lab File: ccv0801.D
 Acq: 01 Aug 2023 07:32 am

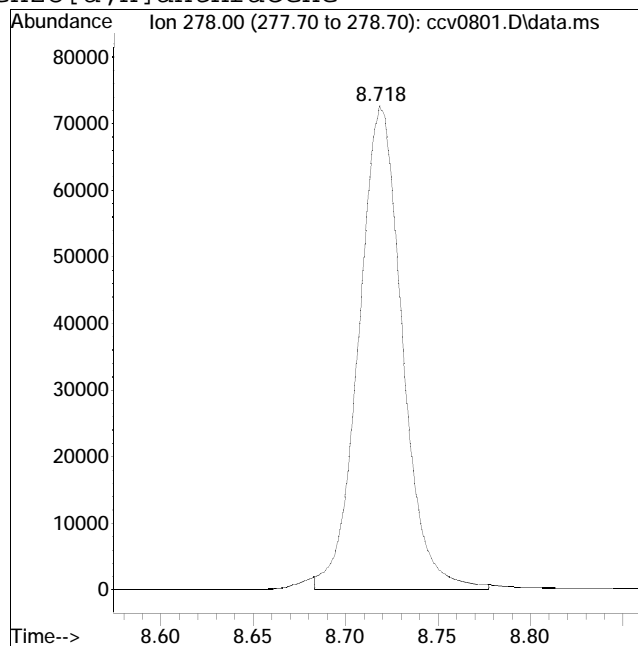
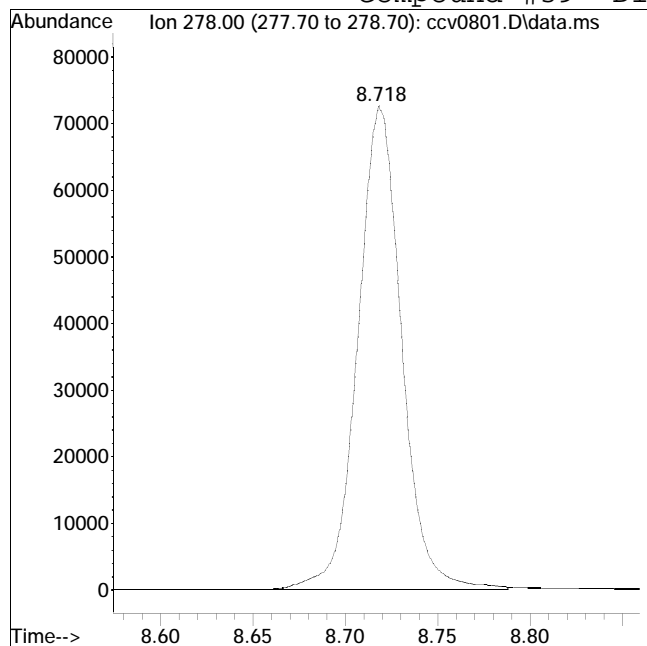
Tgt Ion	Resp	Lower	Upper
276	100		
138	19.7	20.1	30.1#



Manual Integration Report

Data Path : I:\8270SIM\sv120\230801ST\QMethod : simtech230222-sv120.M
Data File : ccv0801.D Operator : SV120:jjw
Date Inj'd : 8/1/2023 7:32 am Instrument : SV120
Sample : WG1810218-3,32,, ICV 10146 Quant Date : 8/1/2023 7:47 am

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 120189

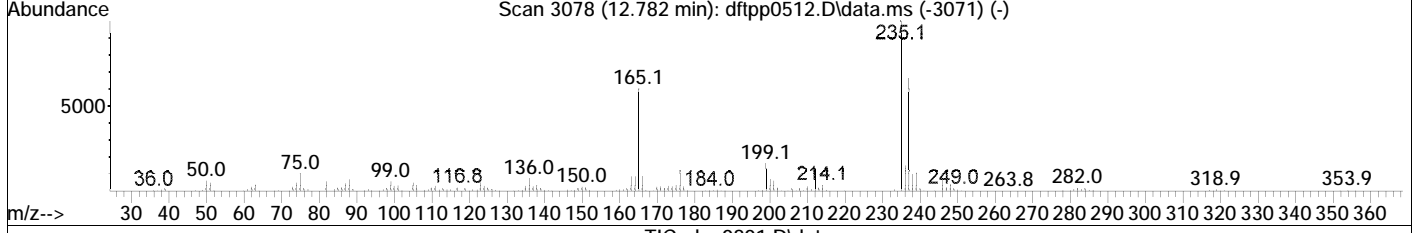
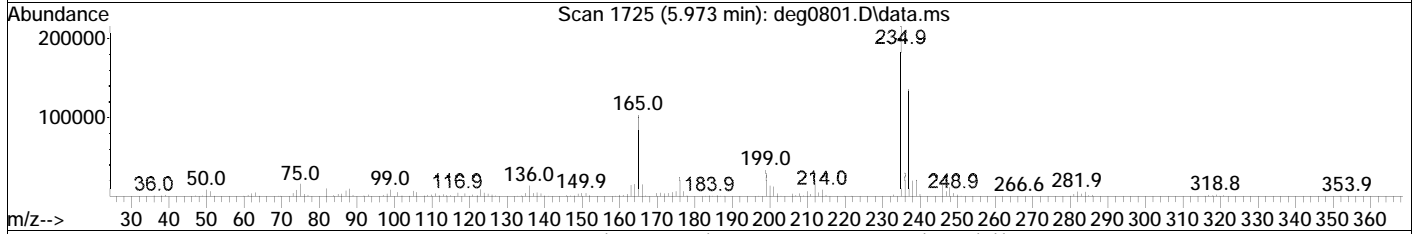
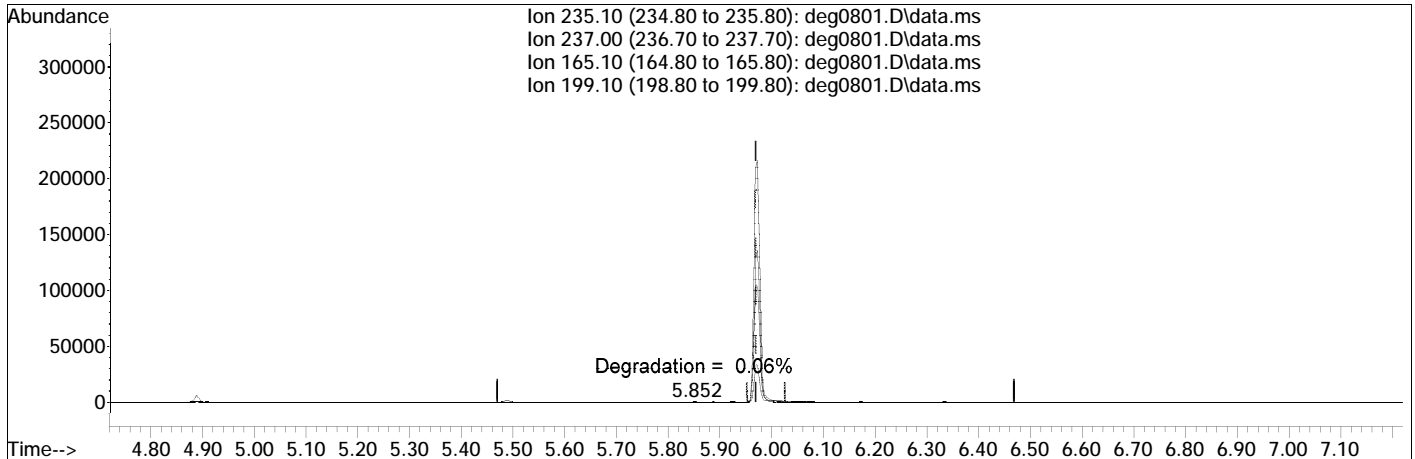
Manual Peak Response = 118823 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : deg0801.D
 Acq On : 01 Aug 2023 07:12 am
 Operator : SV120:jjw
 Sample : WG1810218-2,32,,dftpp sv120
 Misc : WG1810218,,ical19770
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Aug 01 07:30:53 2023
 Quant Method : I:\8270SIM\sv120\230801ST\dftppsv120.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jun 20 09:50:16 2023
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



TIC: deg0801.D\data.ms

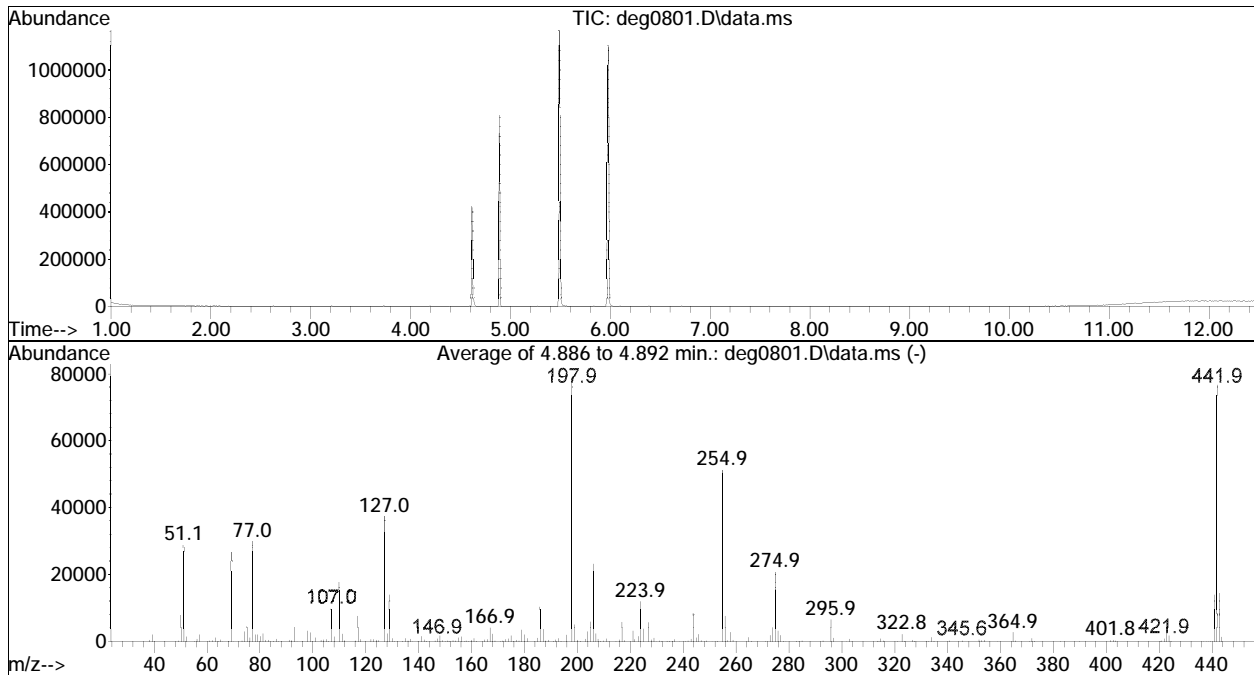
(6) ddt (T)		
5.973min (+ 0.003)	26.33	
response	160515	
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	62.62
165.10	53.30	49.58
199.10	17.10	15.99

DFTPP

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : deg0801.D
 Acq On : 01 Aug 2023 07:12 am
 Operator : SV120:jjw
 Sample : WG1810218-1,32,,dftpp sv120
 Misc : WG1810218,,ical19770
 ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\230801ST\simtech230222-sv120.M
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Tue Aug 01 07:47:49 2023



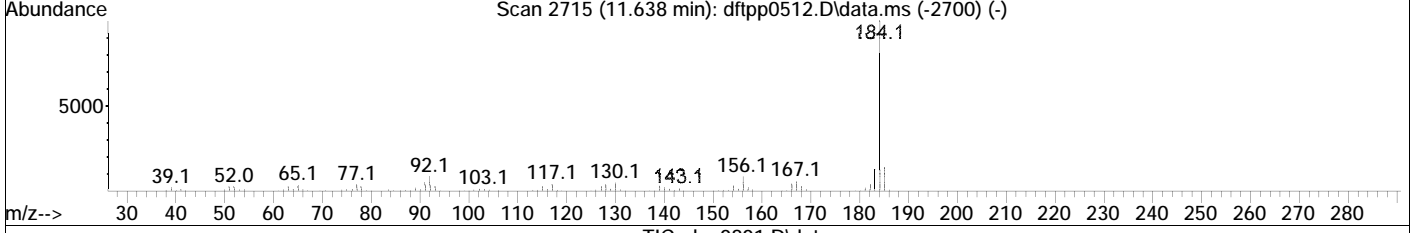
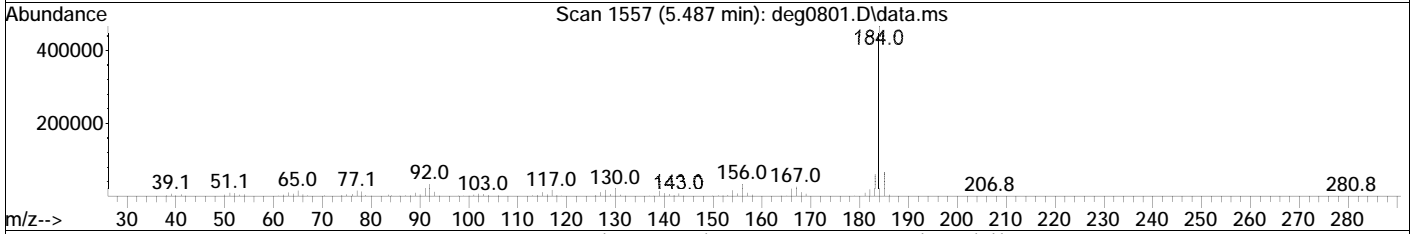
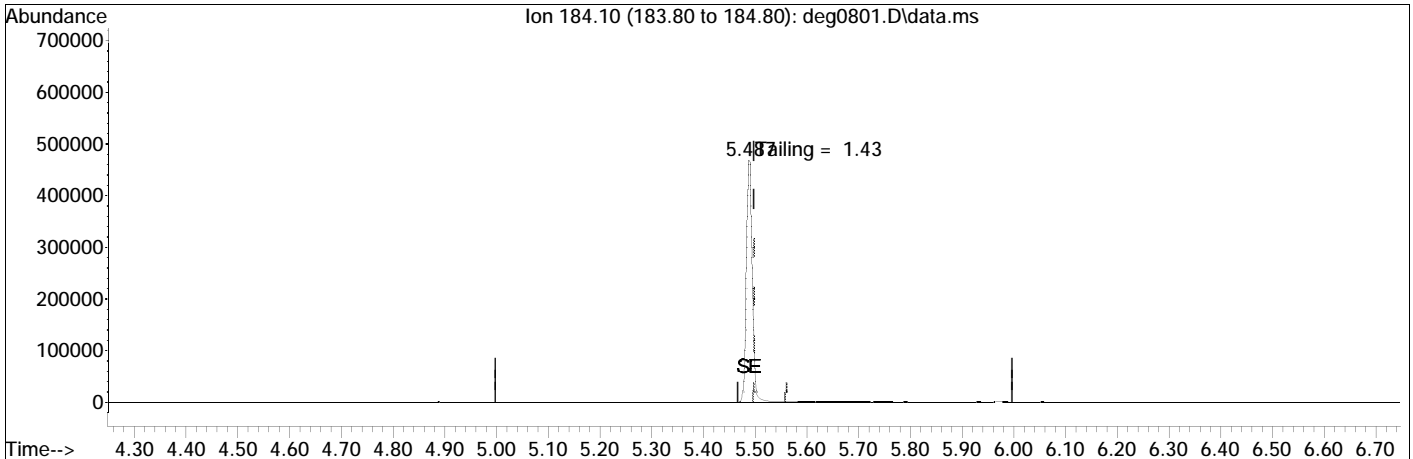
Spectrum Information: Average of 4.886 to 4.892 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.4	28645	PASS
68	69	0.00	2	1.1	298	PASS
69	69	100	100	100.0	26491	PASS
70	69	0.00	2	0.5	120	PASS
127	198	10	80	47.3	37256	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	78787	PASS
199	198	5	9	6.3	4975	PASS
275	198	10	60	26.1	20557	PASS
365	198	1	100	3.3	2639	PASS
441	442	0.01	24	17.9	13730	PASS
442	198	50	100	97.3	76693	PASS
443	442	15	24	18.6	14239	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : deg0801.D
 Acq On : 01 Aug 2023 07:12 am
 Operator : SV120:jjw
 Sample : WG1810218-4,32,,dftpp sv120
 Misc : WG1810218,,ical19770
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Aug 01 07:30:53 2023
 Quant Method : I:\8270SIM\sv120\230801ST\dftppsv120.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jun 20 09:50:16 2023
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



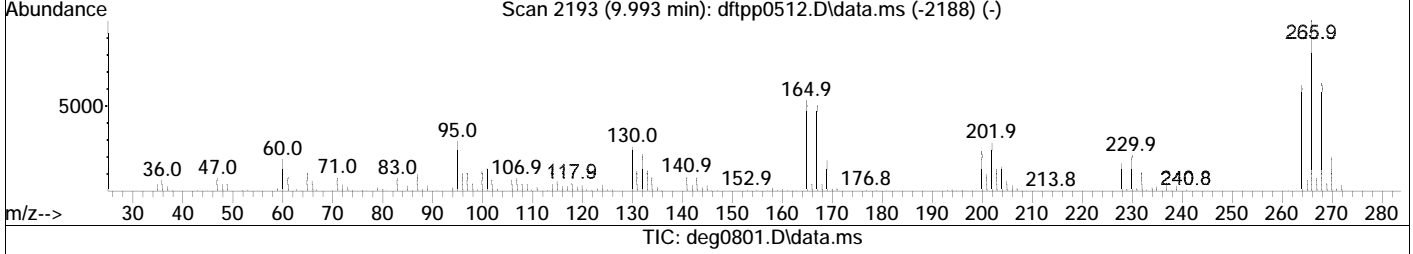
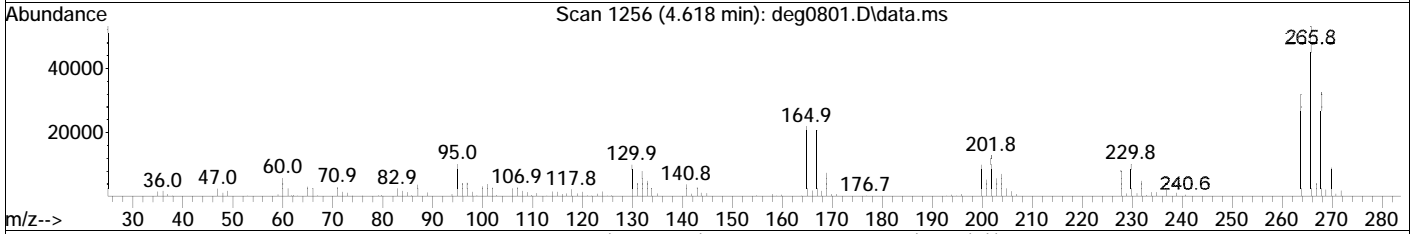
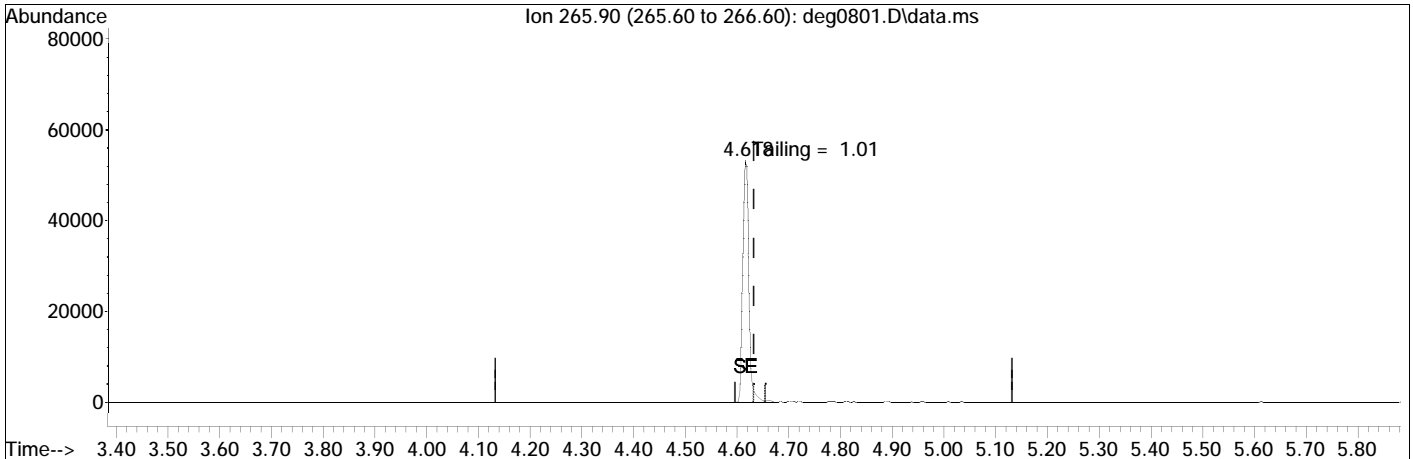
TIC: deg0801.D\data.ms

(3) benzidine (T)		
5.487min (-0.011)	35.11	
response	357463	
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\230801ST\
 Data File : deg0801.D
 Acq On : 01 Aug 2023 07:12 am
 Operator : SV120:jjw
 Sample : WG1810218-5,32,,dftpp sv120
 Misc : WG1810218,,ical19770
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Aug 01 07:30:53 2023
 Quant Method : I:\8270SIM\sv120\230801ST\dftppsv120.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jun 20 09:50:16 2023
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



TIC: deg0801.D\data.ms

(1) pentachlorophenol (T)		
4.618min (-0.015)	19.00	
response	39911	
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : SV120
 Lab File ID : CCV0801
 Sample No : WG1810218-3
 Channel :

Lab Number : L2343170
 Project Number : 2230119
 Calibration Date : 08/01/23 07:32
 Init. Calib. Date(s) : 02/22/23 02/22/23
 Init. Calib. Times : 11:10 13:39

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	71	0
2-Fluorophenol	1.037	1.032	.05	0.5	20	67	0
Phenol-d6	1.281	1.233	.05	3.7	20	65	0
Hexachloroethane	0.483	0.466	.05	3.5	20	67	0
Bis(2-chloroethyl)ether	1.086	1.044	.05	3.9	20	67	0
n-nitrosodi-n-propylamine	0.728	0.71	.05	2.5	20	66	0
Nitrobenzene-d5	1.01	1.172	.05	-16	20	75	0
Naphthalene-d8	1	1	.05	0	20	66	0
Naphthalene	1.03	0.949	.05	7.9	20	61	0
Hexachlorobutadiene	0.193	0.209	.05	-8.3	20	72	0
2-Methylnaphthalene	0.647	0.611	.05	5.6	20	62	0
1-Methylnaphthalene	0.634	0.6	.05	5.4	20	62	0
2-Fluorobiphenyl	0.791	0.751	.05	5.1	20	64	0
2-Chloronaphthalene	0.684	0.657	.05	3.9	20	63	0
Acenaphthylene	0.984	1.05	.05	-6.7	20	67	0
Acenaphthene-d10	1	1	.05	0	20	70	0
Acenaphthene	1.364	1.186	.05	13	20	61	0
Fluorene	1.436	1.327	.05	7.6	20	64	0
2,4,6-Tribromophenol	30	28.43	.05	5.2	20	65	0
Phenanthrene-d10	1	1	.05	0	20	74	0
4,6-Dinitro-o-cresol	5	8.565	.05	-71.3*	20	134	0
Hexachlorobenzene	0.239	0.213	.05	10.9	20	66	0
Pentachlorophenol	5	4.893	.05	2.1	20	72	0
Phenanthrene	1.099	0.938	.05	14.6	20	64	0
Anthracene	1.032	0.876	.05	15.1	20	60	0
O-Terphenyl-MS	0.553	0.505	.05	8.7	20	67	0
Fluoranthene	1.182	1.134	.05	4.1	20	68	0
Pyrene	1.227	1.198	.05	2.4	20	69	0
4-Terphenyl-d14	0.821	0.825	.05	-0.5	20	75	0
Chrysene-d12	1	1	.05	0	20	85	0
Benzo[a]anthracene	1.302	1.155	.05	11.3	20	75	0
Chrysene	1.368	1.129	.05	17.5	20	70	0
Bis(2-ethylhexyl)phthalate	5	4.655	.05	6.9	20	81	0
Perylene-d12	1	1	.05	0	20	80	0
Benzo[b]fluoranthene	1.215	1.153	.05	5.1	20	70	0
Benzo[k]fluoranthene	1.188	1.078	.05	9.3	20	69	0
Benzo[a]pyrene	0.99	0.953	.05	3.7	20	70	0
Indeno[1,2,3-cd]pyrene	0.917	1.018	.05	-11	20	83	0
Dibenzo[a,h]anthracene	1.053	1.042	.05	1	20	71	0
Benzo[g,h,i]perylene	1.163	1.028	.05	11.6	20	66	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : SV120
 Lab File ID : CCV0808
 Sample No : WG1813153-3
 Channel :

Lab Number : L2343170
 Project Number : 2230119
 Calibration Date : 08/08/23 07:57
 Init. Calib. Date(s) : 02/22/23 02/22/23
 Init. Calib. Times : 11:10 13:39

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	104	0
2-Fluorophenol	1.037	1.068	.05	-3	20	103	0
Phenol-d6	1.281	1.272	.05	0.7	20	99	0
Hexachloroethane	0.483	0.499	.05	-3.3	20	106	0
Bis(2-chloroethyl)ether	1.086	1.08	.05	0.6	20	103	0
n-nitrosodi-n-propylamine	0.728	0.721	.05	1	20	99	0
Nitrobenzene-d5	1.01	1.136	.05	-12.5	20	108	0
Naphthalene-d8	1	1	.05	0	20	104	0
Naphthalene	1.03	0.959	.05	6.9	20	97	0
Hexachlorobutadiene	0.193	0.181	.05	6.2	20	97	0
2-Methylnaphthalene	0.647	0.605	.05	6.5	20	96	0
1-Methylnaphthalene	0.634	0.588	.05	7.3	20	95	0
2-Fluorobiphenyl	0.791	0.705	.05	10.9	20	95	0
2-Chloronaphthalene	0.684	0.633	.05	7.5	20	95	0
Acenaphthylene	0.984	1.019	.05	-3.6	20	101	0
Acenaphthene-d10	1	1	.05	0	20	103	0
Acenaphthene	1.364	1.216	.05	10.9	20	91	0
Fluorene	1.436	1.309	.05	8.8	20	92	0
2,4,6-Tribromophenol	30	17.698	.05	41*	20	57	0
Phenanthrene-d10	1	1	.05	0	20	100	0
4,6-Dinitro-o-cresol	5	8.356	.05	-67.1*	20	175	0
Hexachlorobenzene	0.239	0.183	.05	23.4*	20	76	0
Pentachlorophenol	5	4.089	.05	18.2	20	80	0
Phenanthrene	1.099	0.957	.05	12.9	20	88	0
Anthracene	1.032	0.968	.05	6.2	20	90	0
O-Terphenyl-MS	0.553	0.512	.05	7.4	20	92	0
Fluoranthene	1.182	1.075	.05	9.1	20	87	0
Pyrene	1.227	1.124	.05	8.4	20	87	0
4-Terphenyl-d14	0.821	0.772	.05	6	20	94	0
Chrysene-d12	1	1	.05	0	20	95	0
Benzo[a]anthracene	1.302	1.222	.05	6.1	20	89	0
Chrysene	1.368	1.15	.05	15.9	20	80	0
Bis(2-ethylhexyl)phthalate	5	5.241	.05	-4.8	20	104	0
Perylene-d12	1	1	.05	0	20	104	0
Benzo[b]fluoranthene	1.215	1.086	.05	10.6	20	86	0
Benzo[k]fluoranthene	1.188	0.951	.05	19.9	20	79	0
Benzo[a]pyrene	0.99	0.928	.05	6.3	20	89	0
Indeno[1,2,3-cd]pyrene	0.917	1.098	.05	-19.7	20	117	0
Dibenzo[a,h]anthracene	1.053	1.077	.05	-2.3	20	96	0
Benzo[g,h,i]perylene	1.163	1.079	.05	7.2	20	91	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : ccv0808.D
 Acq On : 08 Aug 2023 07:57 am
 Operator : SV120:ah
 Sample : WG1813153-3,32,, ICV 10146 (0806)
 Misc : WG1813153,, ical19770
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Aug 08 08:28:03 2023
 Quant Method : I:\8270SIM\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:53 2023
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
2 s	2-Fluorophenol	1.037	1.068	-3.0	103	0.00
3 s	Phenol-d6	1.281	1.272	0.7	99	0.00
4 t	Hexachloroethane	0.483	0.499	-3.3	106	0.00
5 t	Bis(2-chloroethyl)ether	1.086	1.080	0.6	103	0.00
6 t	n-nitrosodi-n-propylamine	0.728	0.721	1.0	99	0.00
7 s	Nitrobenzene-d5	1.010	1.136	-12.5	108	0.00
8 i	Naphthalene-d8	1.000	1.000	0.0	104	0.00
9 t	Naphthalene	1.030	0.959	6.9	97	0.00
10 t	Hexachlorobutadiene	0.193	0.181	6.2	97	0.00
11 t	2-Methylnaphthalene	0.647	0.605	6.5	96	0.00
12 t	1-Methylnaphthalene	0.634	0.588	7.3	95	0.00
13 s	2-Fluorobiphenyl	0.791	0.705	10.9	95	0.00
14 t	2-Chloronaphthalene	0.684	0.633	7.5	95	0.00
15 t	Acenaphthylene	0.984	1.019	-3.6	101	0.00
16 i	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
17 t	Acenaphthene	1.364	1.216	10.9	91	0.00
18 t	Fluorene	1.436	1.309	8.8	92	0.00
19 s	2,4,6-Tribromophenol	* 30.000	17.698	41.0#	57	0.00
20 i	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
21 t	4,6-Dinitro-o-cresol	* 5.000	8.356	-67.1#	175	0.00
22 t	Hexachlorobenzene	0.239	0.183	23.4#	76	0.00
23 t	Pentachlorophenol	* 5.000	4.089	18.2	80	0.00
24 t	Phenanthrene	1.099	0.957	12.9	88	0.00
25 t	Anthracene	1.032	0.968	6.2	90	0.00
26 s	O-Terphenyl-MS	0.553	0.512	7.4	92	0.00
27 t	Fluoranthene	1.182	1.075	9.1	87	0.00
28 t	Pyrene	1.227	1.124	8.4	87	0.00
29 s	4-Terphenyl-d14	0.821	0.772	6.0	94	0.00
30 i	Chrysene-d12	1.000	1.000	0.0	95	0.00
31 t	Benzo[a]anthracene	1.302	1.222	6.1	89	0.00
32 t	Chrysene	1.368	1.150	15.9	80	0.00
33 t	Bis(2-ethylhexyl)phthalate	* 5.000	5.241	-4.8	104	0.00
34 i	Perylene-d12	1.000	1.000	0.0	104	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : ccv0808.D
 Acq On : 08 Aug 2023 07:57 am
 Operator : SV120:ah
 Sample : WG1813153-3,32,, ICV 10146 (0806)
 Misc : WG1813153,, ical19770
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Aug 08 08:28:03 2023
 Quant Method : I:\8270SIM\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:53 2023
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
35 t	Benzo[b]fluoranthene	1.215	1.086	10.6	86	0.00
36 t	Benzo[k]fluoranthene	1.188	0.951	19.9	79	0.00
37 t	Benzo[a]pyrene	0.990	0.928	6.3	89	0.00
38 t	Indeno[1,2,3-cd]pyrene	0.917	1.098	-19.7	117	0.00
39 t	Dibenzo[a,h]anthracene	1.053	1.077	-2.3	96	0.00
40 t	Benzo[g,h,i]perylene	1.163	1.079	7.2	91	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : ccv0808.D
 Acq On : 08 Aug 2023 07:57 am
 Operator : SV120:ah
 Sample : WG1813153-3,32,, ICV 10146 (0806)
 Misc : WG1813153,, ical19770
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Aug 08 08:28:03 2023
 Quant Method : I:\8270SIM\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:53 2023
 Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 1,4-Dichlorobenzene-d4	2.178	152	25900	4.000	ug/ml	0.00	
8) Naphthalene-d8	2.842	136	96934	4.000	ug/ml	0.00	
16) Acenaphthene-d10	3.818	164	51703	4.000	ug/ml	0.00	
20) Phenanthrene-d10	4.656	188	107414	4.000	ug/ml	0.00	
30) Chrysene-d12	6.260	240	96547	4.000	ug/ml	0.00	
34) Perylene-d12	7.425	264	119148	4.000	ug/ml	0.00	
System Monitoring Compounds							
2) 2-Fluorophenol	1.580	112	207428	30.899	ug/ml	0.00	
Spiked Amount	50.000	Range 15 - 110	Recovery =	61.80%			
3) Phenol-d6	1.994	99	247064	29.791	ug/ml	0.00	
Spiked Amount	50.000	Range 15 - 110	Recovery =	59.58%			
7) Nitrobenzene-d5	2.462	82	220612	33.719	ug/ml	0.00	
Spiked Amount	25.000	Range 30 - 130	Recovery =	134.88%#			
13) 2-Fluorobiphenyl	3.439	172	512542	26.752	ug/ml	0.00	
Spiked Amount	25.000	Range 30 - 130	Recovery =	107.01%			
19) 2,4,6-Tribromophenol	4.265	330	45236	17.698	ug/ml	0.00	
Spiked Amount	50.000	Range 15 - 110	Recovery =	35.40%			
26) O-Terphenyl-MS	4.880	230	412161	27.734	ug/ml	0.00	
Spiked Amount	20.000	Range 40 - 140	Recovery =	138.67%			
29) 4-Terphenyl-d14	5.599	244	621561	28.206	ug/ml	0.00	
Spiked Amount	25.000	Range 30 - 130	Recovery =	112.82%			
Target Compounds							
							Qvalue
4) Hexachloroethane	2.436	117	16144	5.165	ug/ml		94
5) Bis(2-chloroethyl)ether	2.043	93	34977	4.973	ug/ml		97
6) n-nitrosodi-n-propylamine	2.381	70	23328	4.951	ug/ml		96
9) Naphthalene	2.852	128	116170	4.655	ug/ml		100
10) Hexachlorobutadiene	2.925	225	21929	4.690	ug/ml		100
11) 2-Methylnaphthalene	3.234	142	73277	4.675	ug/ml		99
12) 1-Methylnaphthalene	3.289	142	71244	4.639	ug/ml		100
14) 2-Chloronaphthalene	3.506	162	76715	4.628	ug/ml		98
15) Acenaphthylene	3.735	152	123468	5.175	ug/ml		100
17) Acenaphthene	3.835	153	78565	4.457	ug/ml		96
18) Fluorene	4.127	166	84610	4.560	ug/ml		100
21) 4,6-Dinitro-o-cresol	4.166	198	12252	8.356	ug/ml		93
22) Hexachlorobenzene	4.444	284	24535	3.823	ug/ml		93
23) Pentachlorophenol	4.558	266	11354	4.089	ug/ml		99
24) Phenanthrene	4.668	178	128480	4.352	ug/ml		99
25) Anthracene	4.698	178	129988	4.690	ug/ml		100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : ccv0808.D
 Acq On : 08 Aug 2023 07:57 am
 Operator : SV120:ah
 Sample : WG1813153-3,32,, ICV 10146 (0806)
 Misc : WG1813153,, ical19770
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Aug 08 08:28:03 2023
 Quant Method : I:\8270SIM\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:53 2023
 Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Fluoranthene	5.364	202	144316	4.548	ug/ml	95
28) Pyrene	5.502	202	150886	4.578	ug/ml	99
31) Benzo[a]anthracene	6.252	228	147446	4.691	ug/ml	100
32) Chrysene	6.275	228	138833	4.204	ug/ml	99
33) Bis(2-ethylhexyl)phtha...	6.280	149	81673	5.241	ug/ml	97
35) Benzo[b]fluoranthene	7.072	252	161719	4.469	ug/ml	100
36) Benzo[k]fluoranthene	7.095	252	141583	4.002	ug/ml	100
37) Benzo[a]pyrene	7.367	252	138155	4.687	ug/ml	99
38) Indeno[1,2,3-cd]pyrene	8.600	276	163507M6	5.987	ug/ml	
39) Dibenzo[a,h]anthracene	8.627	278	160421M6	5.115	ug/ml	
40) Benzo[g,h,i]perylene	8.928	276	160654	4.636	ug/ml	90

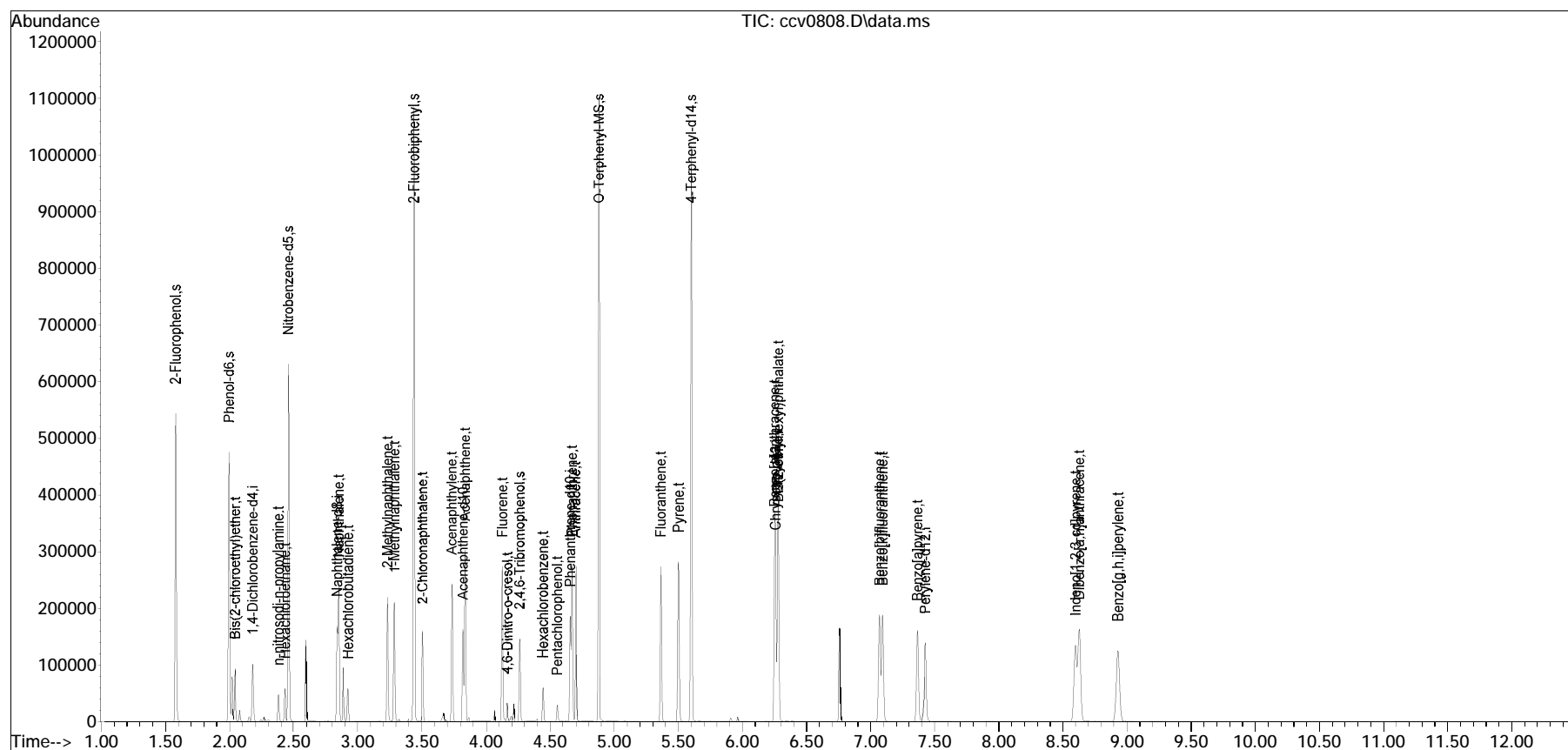
(#) = qualifier out of range (m) = manual integration (+) = signals summed

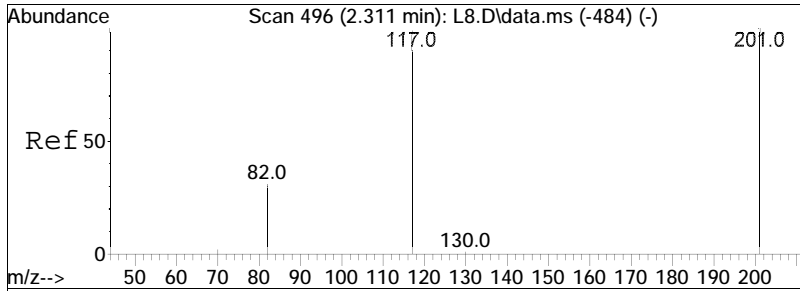
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : ccv0808.D
 Acq On : 08 Aug 2023 07:57 am
 Operator : SV120:ah
 Sample : WG1813153-3,32,, ICV 10146 (0806)
 Misc : WG1813153,, ical19770
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Aug 08 08:28:03 2023
 Quant Method : I:\8270SIM\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:53 2023
 Response via : Initial Calibration

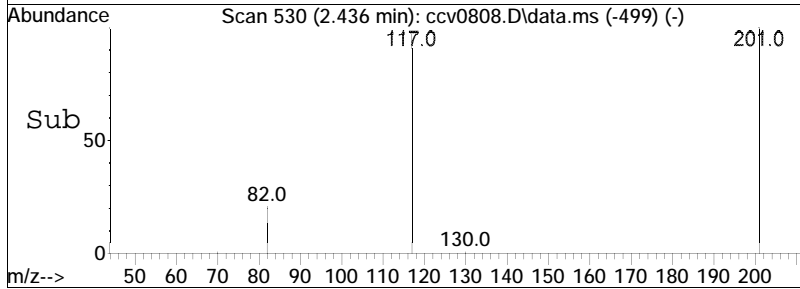
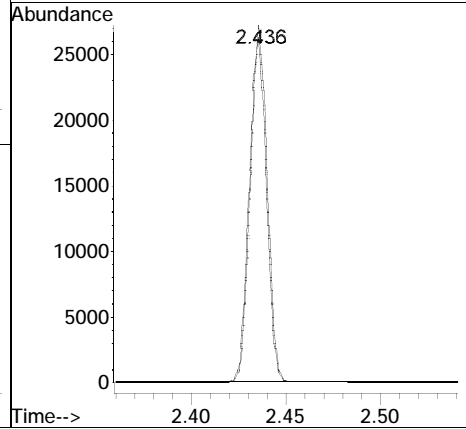
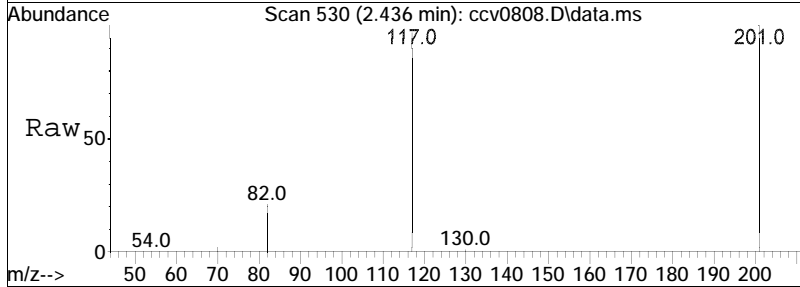
Sub List : Default - All compounds listed

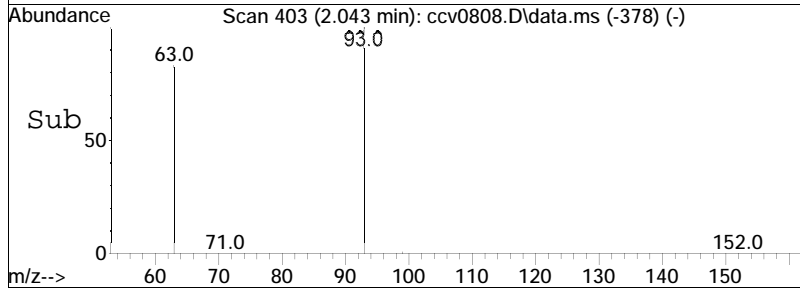
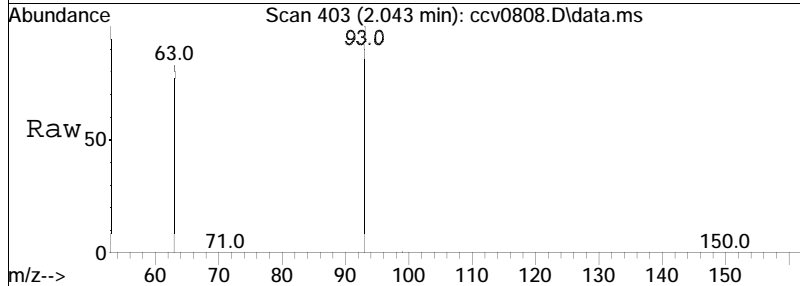
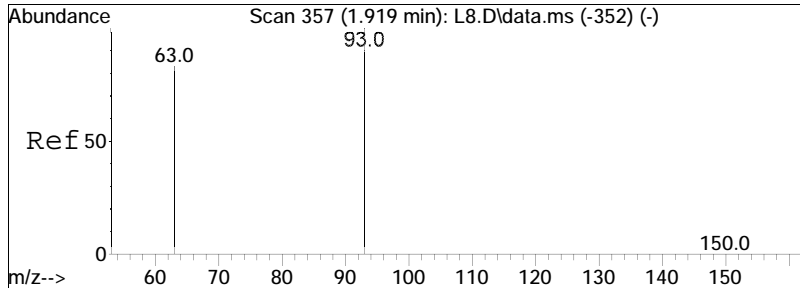




#4
 Hexachloroethane
 Concen: 5.16 ug/ml
 RT: 2.436 min Scan# 530
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

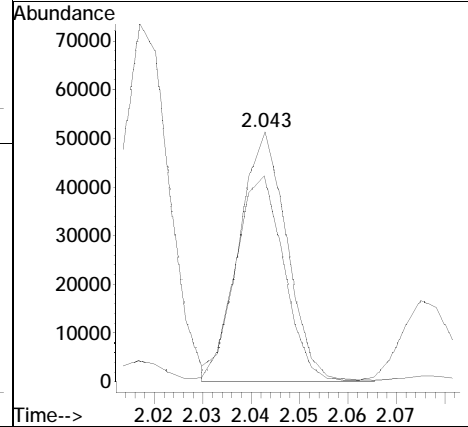
Tgt Ion: 117 Resp: 16144
 Ion Ratio Lower Upper
 117 100
 201 102.3 77.1 115.7

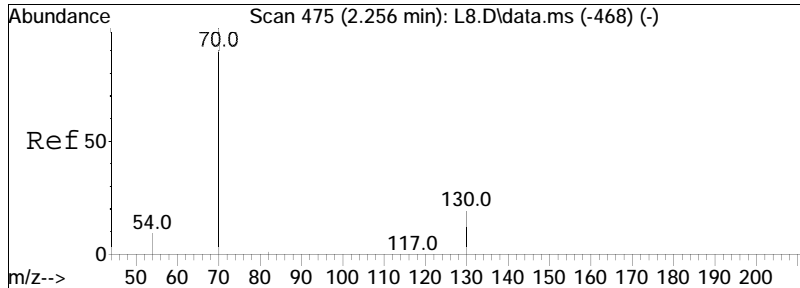




#5
 Bis(2-chloroethyl)ether
 Concen: 4.97 ug/ml
 RT: 2.043 min Scan# 403
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

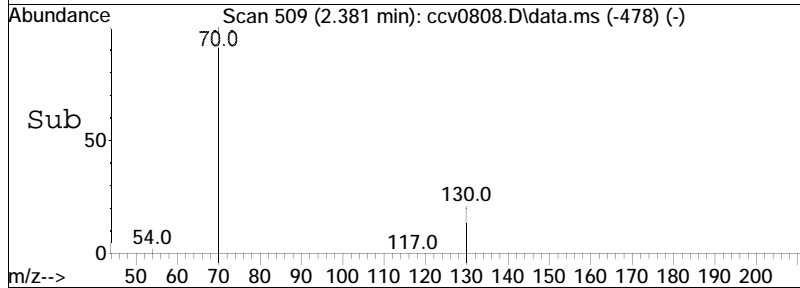
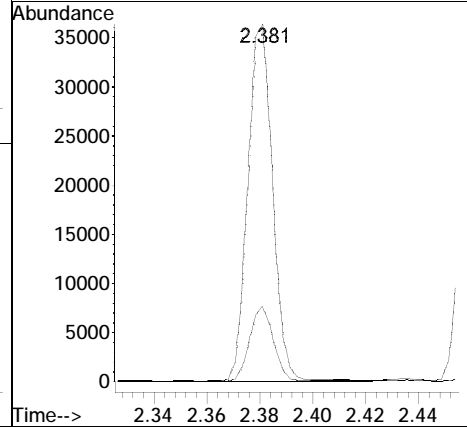
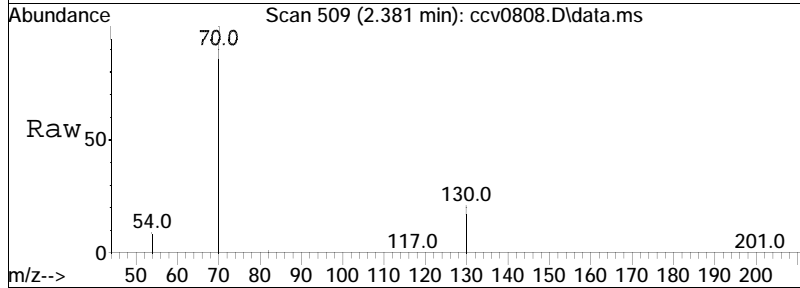
Tgt Ion:	93	Resp:	34977
Ion Ratio	Lower	Upper	
93	100		
63	84.3	65.5	98.3

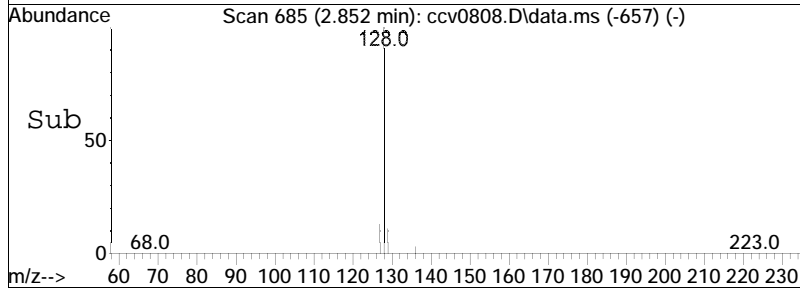
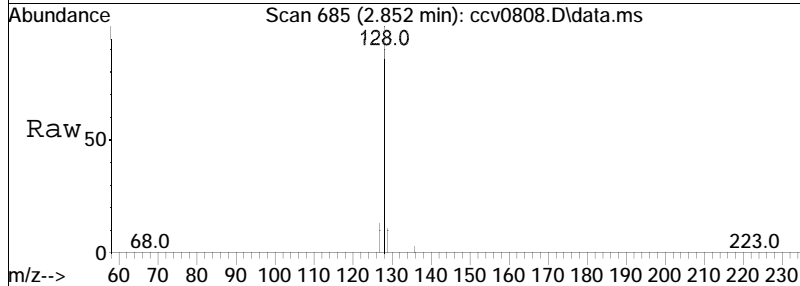
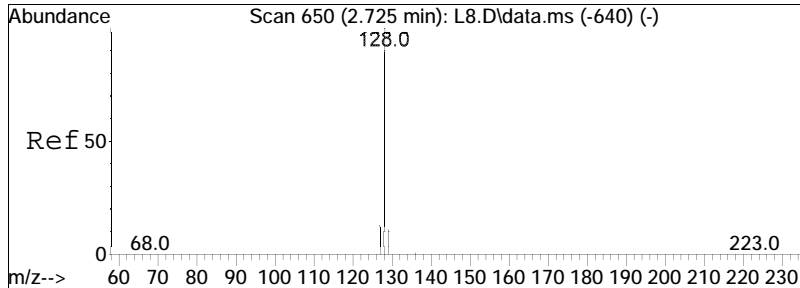




#6
 n-nitrosodi-n-propylamine
 Concen: 4.95 ug/ml
 RT: 2.381 min Scan# 509
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

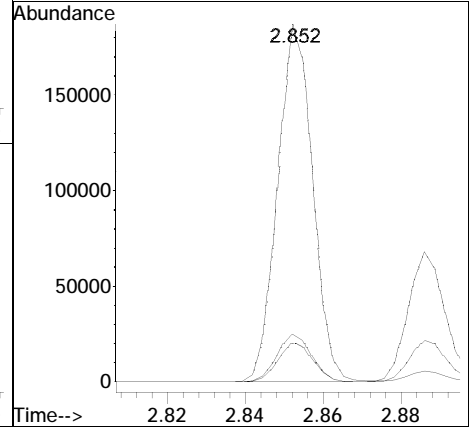
Tgt Ion:	Resp:	Lower	Upper
70	100		
130	20.5	15.0	22.4

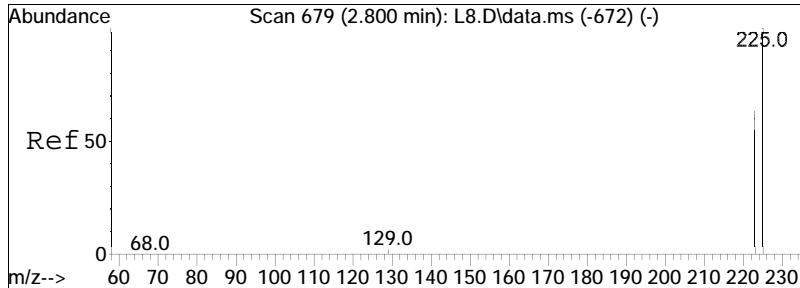




#9
 Naphthalene
 Concen: 4.65 ug/ml
 RT: 2.852 min Scan# 685
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

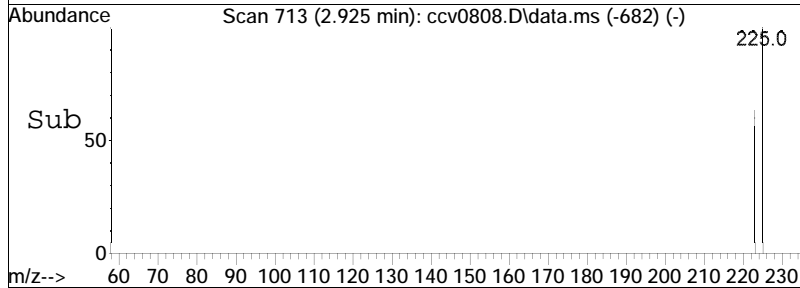
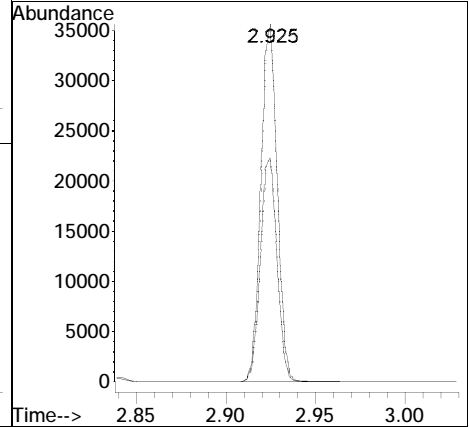
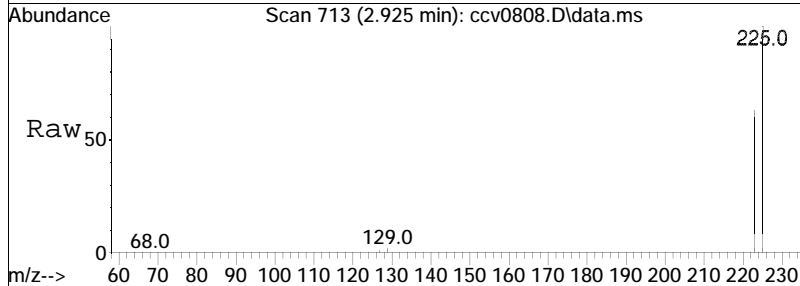
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.7	13.1
127	13.3	10.8	16.2

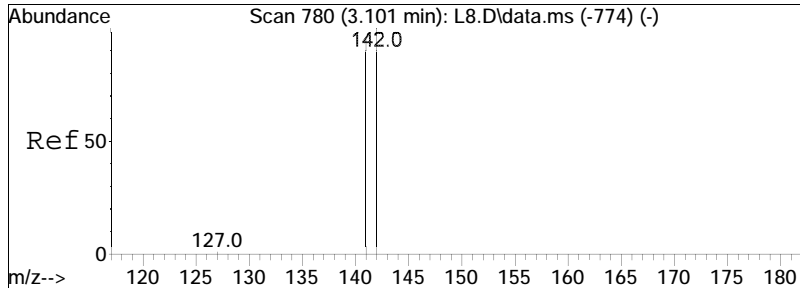




#10
 Hexachlorobutadiene
 Concen: 4.69 ug/ml
 RT: 2.925 min Scan# 713
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

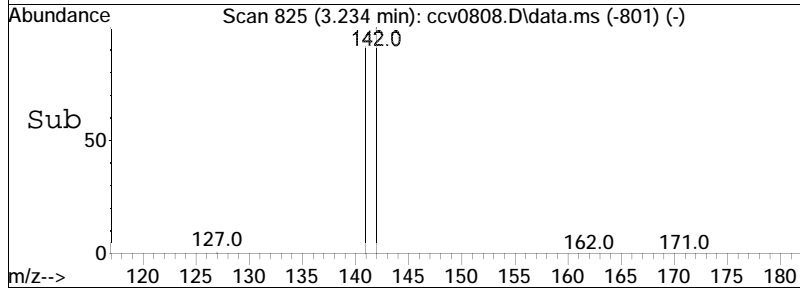
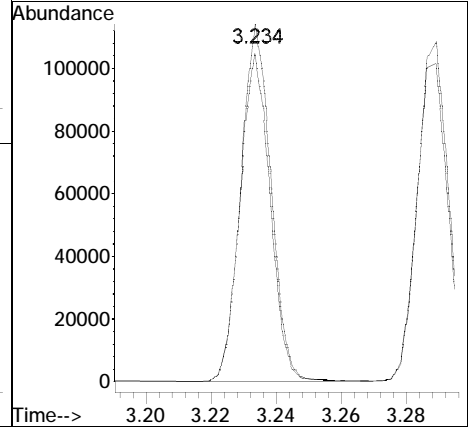
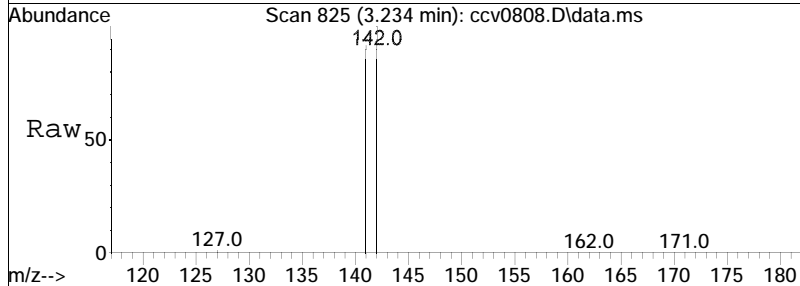
Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.4	75.6

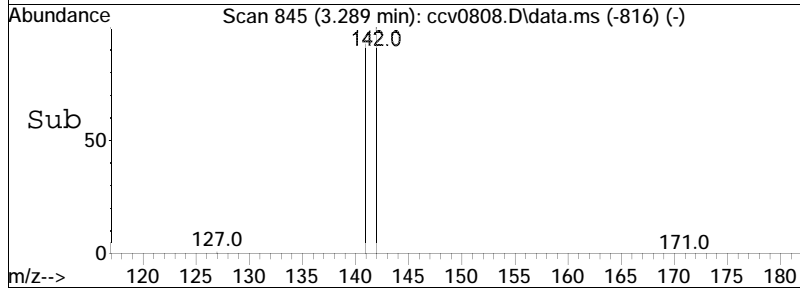
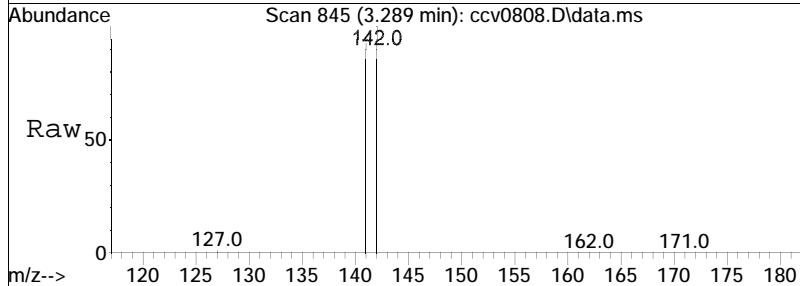
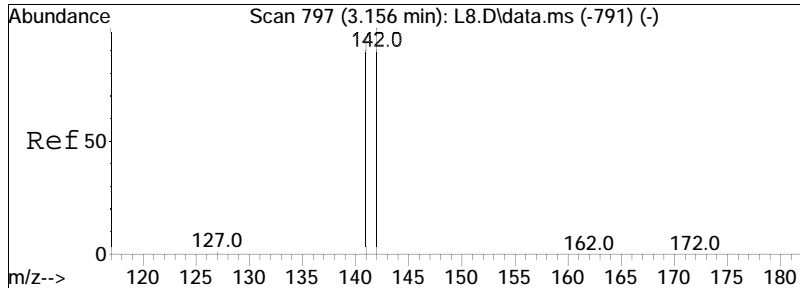




#11
 2-Methylnaphthalene
 Concen: 4.68 ug/ml
 RT: 3.234 min Scan# 825
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

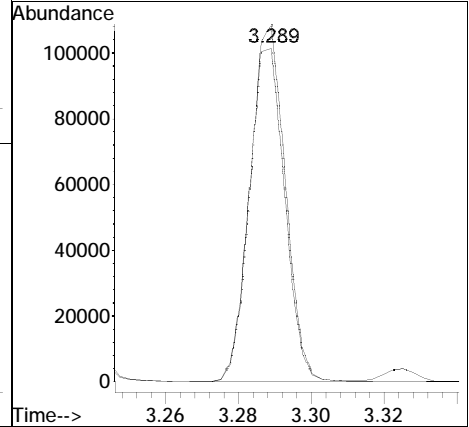
Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.1	74.2	111.4

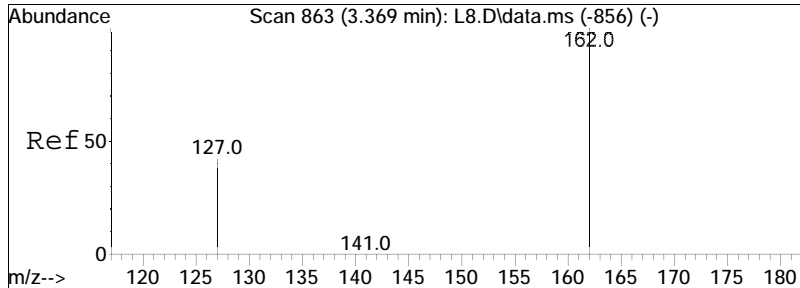




#12
 1-Methylnaphthalene
 Concen: 4.64 ug/ml
 RT: 3.289 min Scan# 845
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

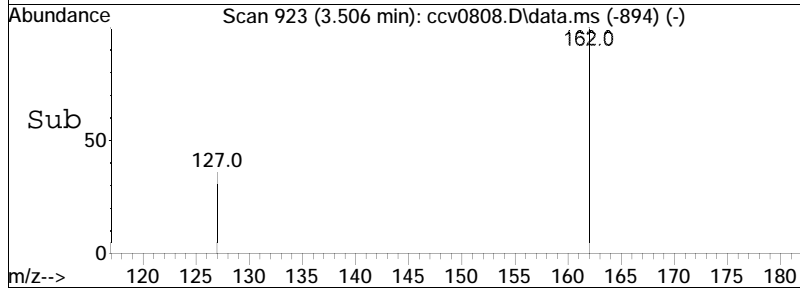
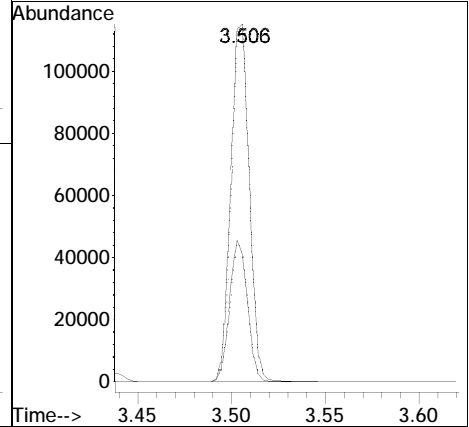
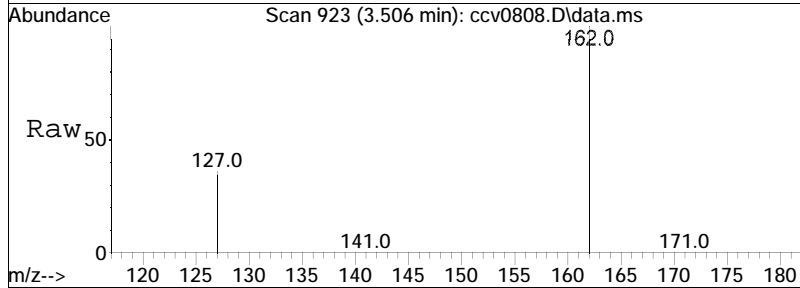
Tgt Ion	Ratio	Lower	Upper
142	100		
141	95.6	76.7	115.1

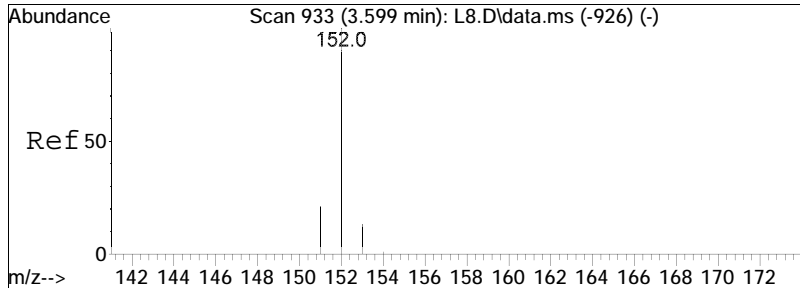




#14
 2-Chloronaphthalene
 Concen: 4.63 ug/ml
 RT: 3.506 min Scan# 923
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

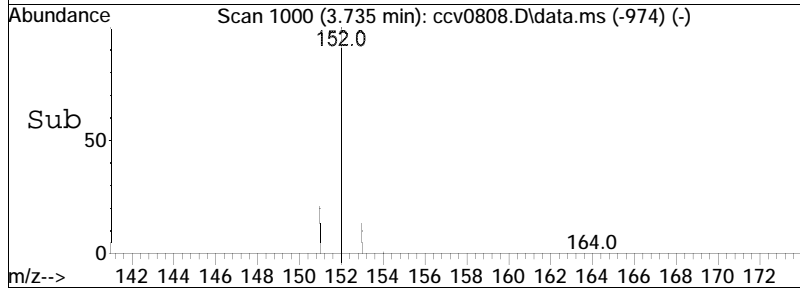
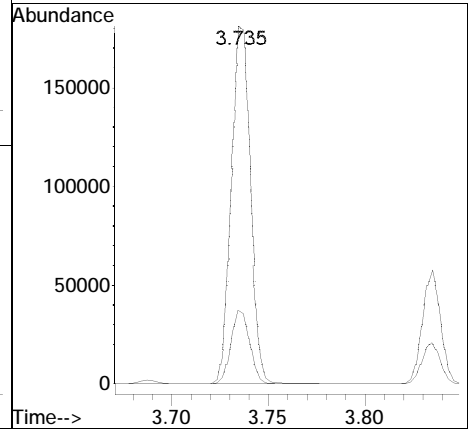
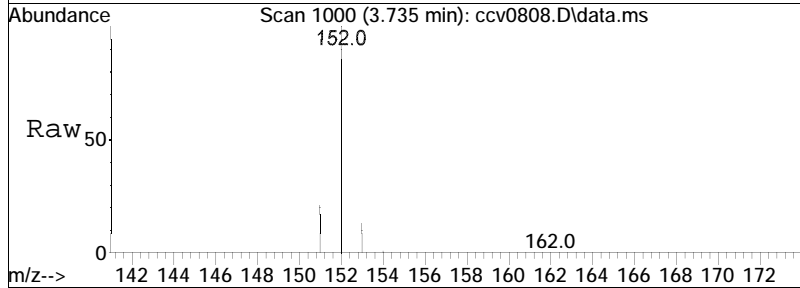
Tgt Ion	Resp	Lower	Upper
162	100		
127	38.4	31.5	47.3

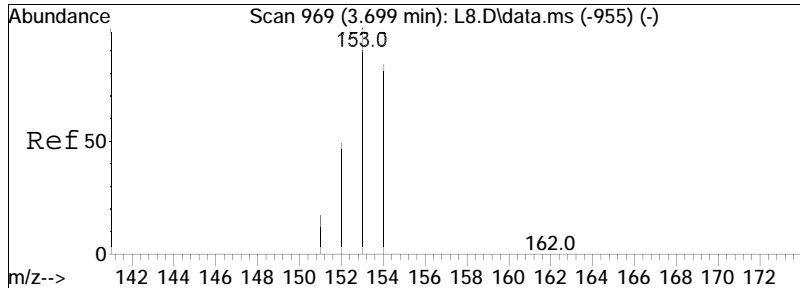




#15
 Acenaphthylene
 Concen: 5.18 ug/ml
 RT: 3.735 min Scan# 1000
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

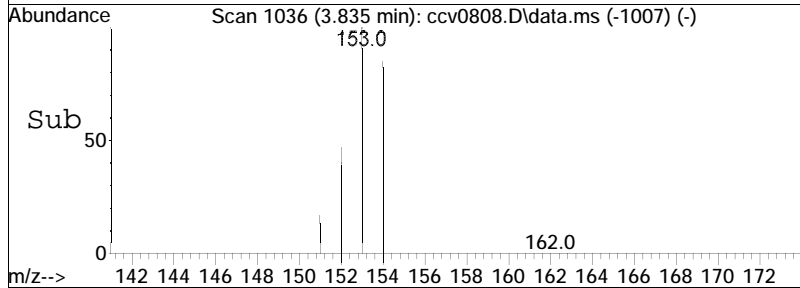
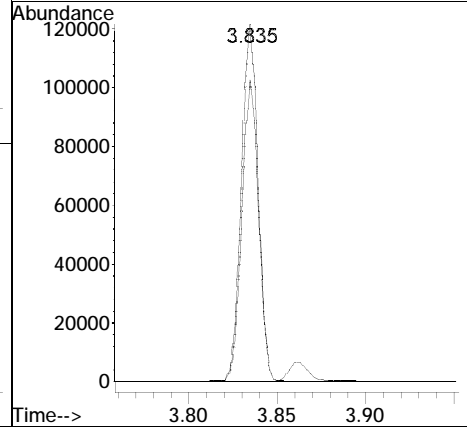
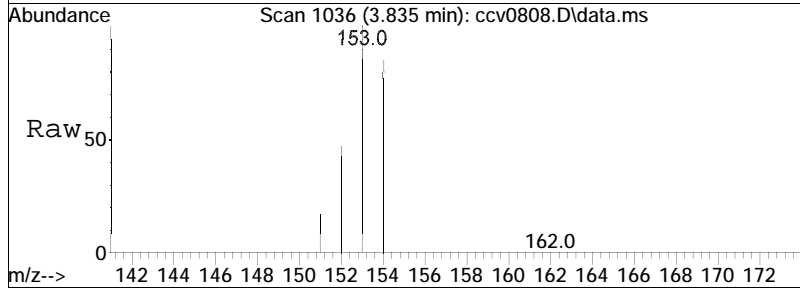
Tgt Ion	Resp	Lower	Upper
152	100		
151	20.2	16.3	24.5

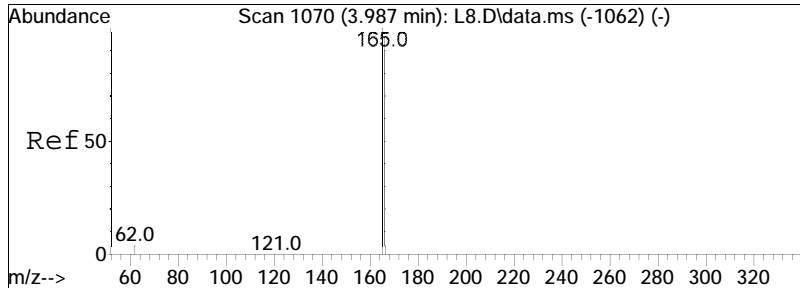




#17
 Acenaphthene
 Concen: 4.46 ug/ml
 RT: 3.835 min Scan# 1036
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

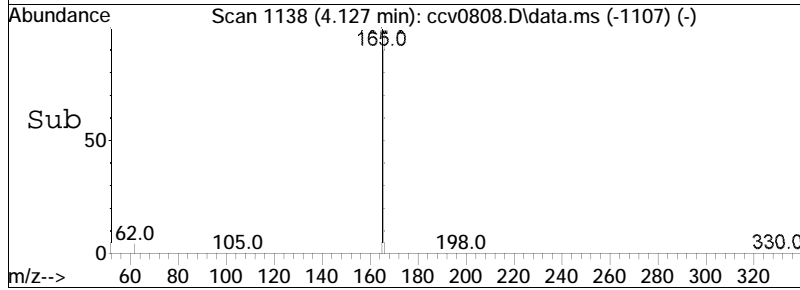
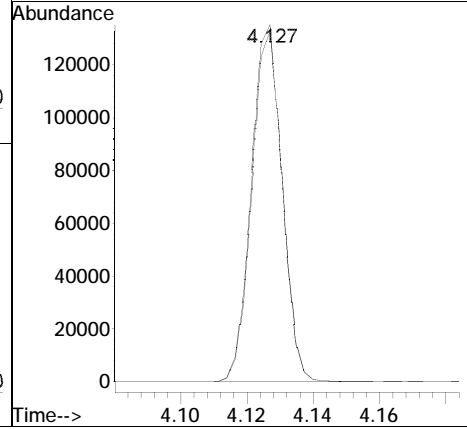
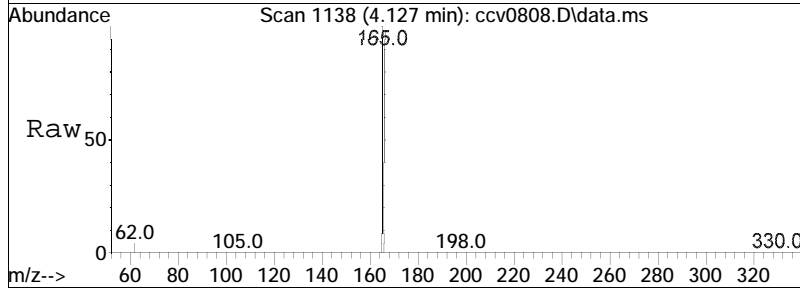
Tgt Ion	Resp	Lower	Upper
153	100		
154	84.6	70.8	106.2

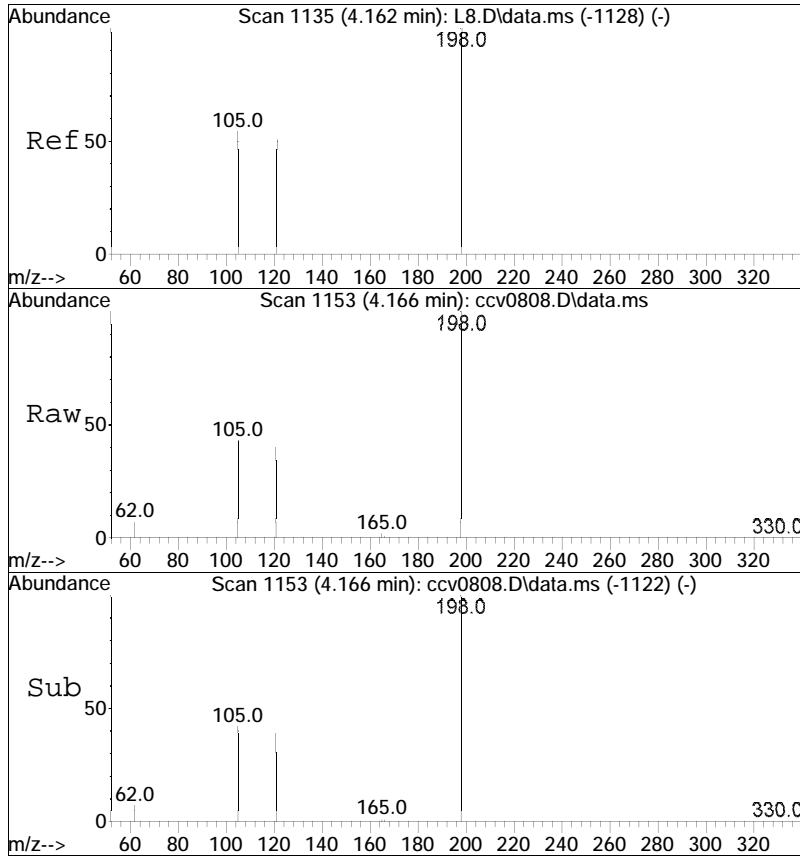




#18
 Fluorene
 Concen: 4.56 ug/ml
 RT: 4.127 min Scan# 1138
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

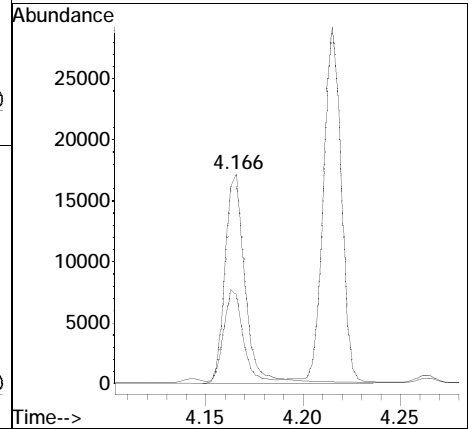
Tgt Ion	Resp	Lower	Upper
166	100		
165	102.5	82.2	123.2

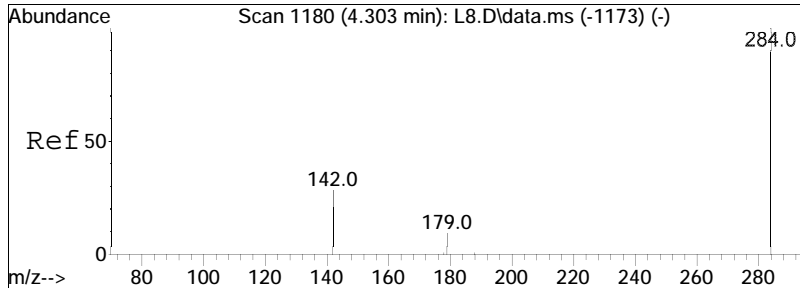




#21
 4,6-Dinitro-o-cresol
 Concen: 8.36 ug/ml
 RT: 4.166 min Scan# 1153
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

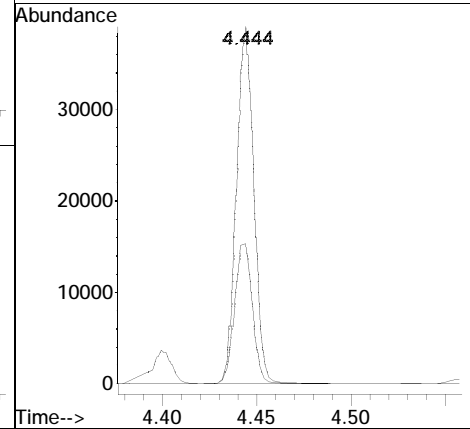
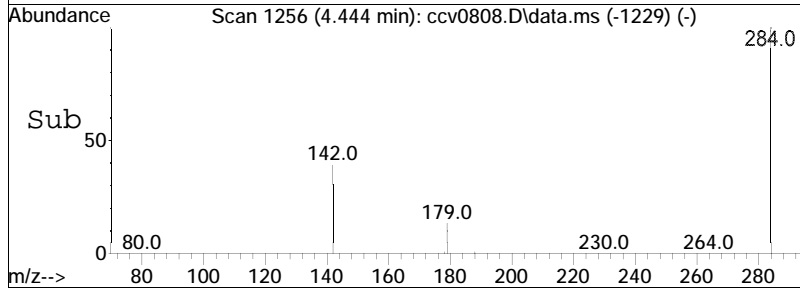
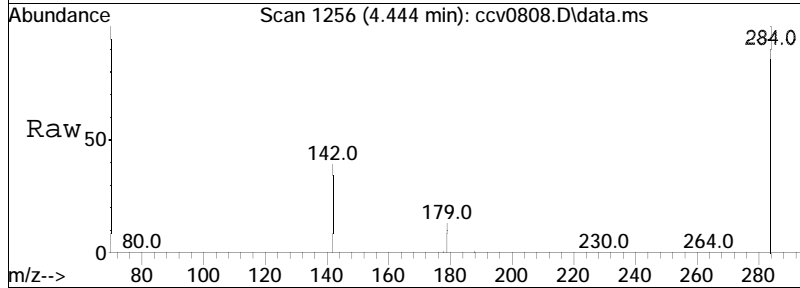
Tgt Ion	Resp	Lower	Upper
198	100		
105	42.6	37.7	56.5

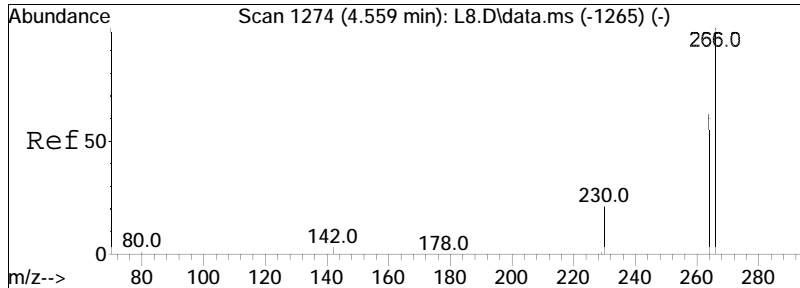




#22
 Hexachlorobenzene
 Concen: 3.82 ug/ml
 RT: 4.444 min Scan# 1256
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

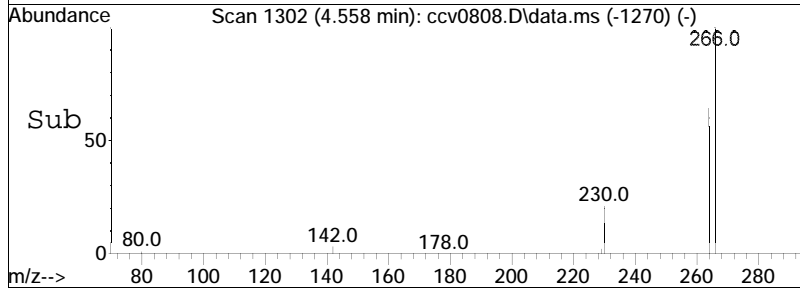
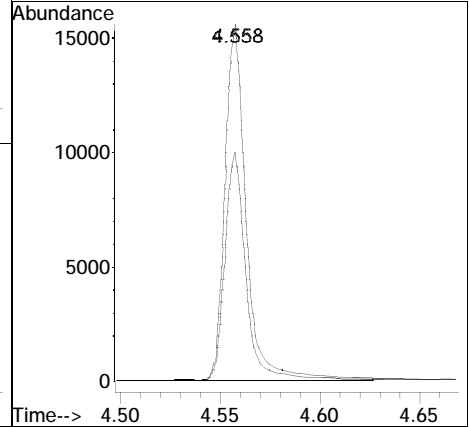
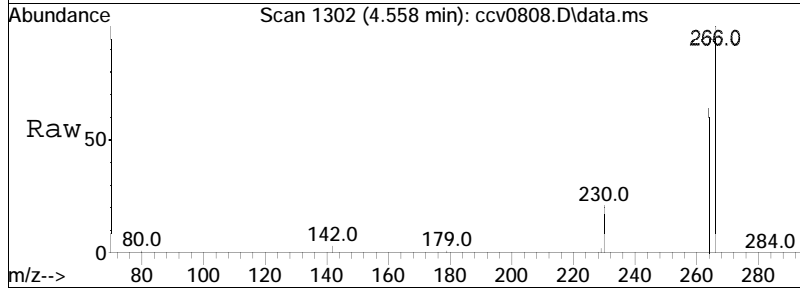
Tgt Ion: 284 Resp: 24535
 Ion Ratio Lower Upper
 284 100
 142 40.6 29.2 43.8

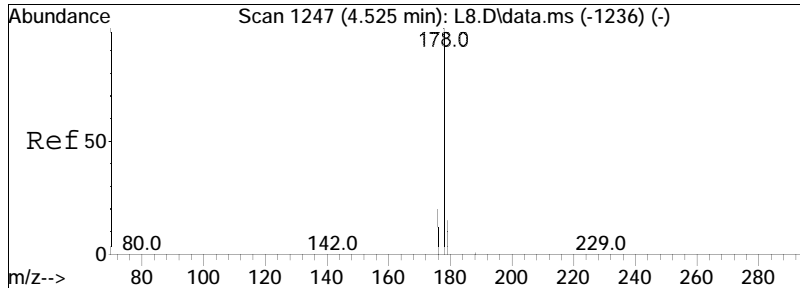




#23
 Pentachlorophenol
 Concen: 4.09 ug/ml
 RT: 4.558 min Scan# 1302
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

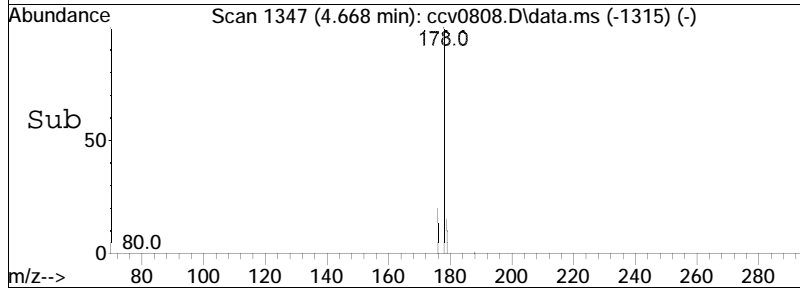
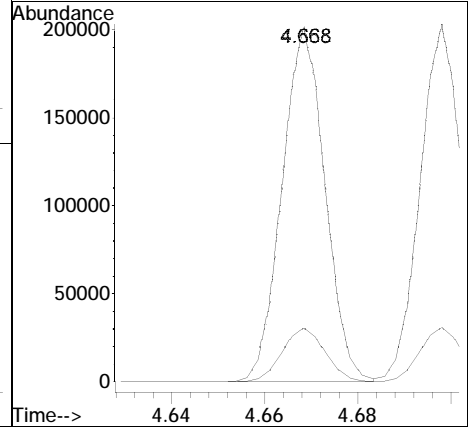
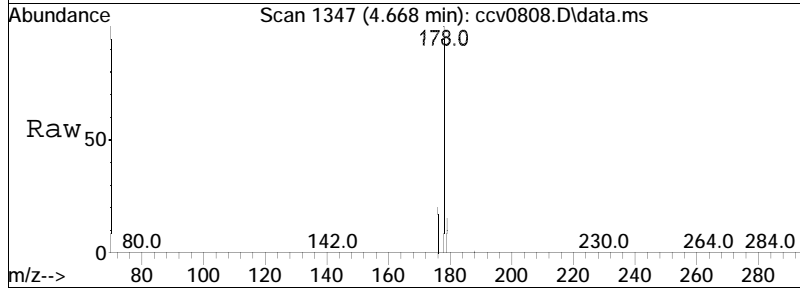
Tgt Ion	Resp	Lower	Upper
266	100		
264	64.1	50.6	76.0

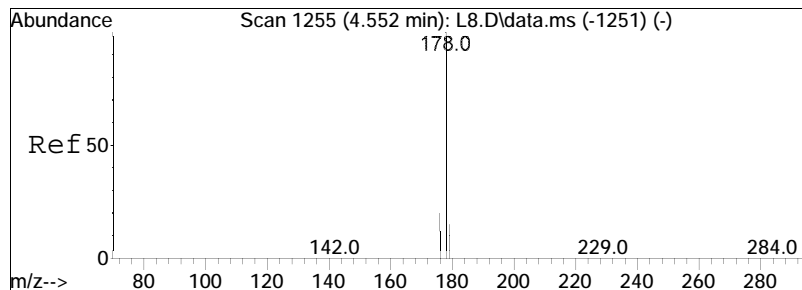




#24
 Phenanthrene
 Concen: 4.35 ug/ml
 RT: 4.668 min Scan# 1347
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

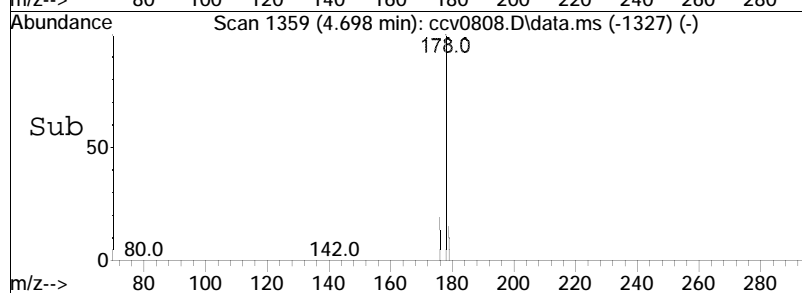
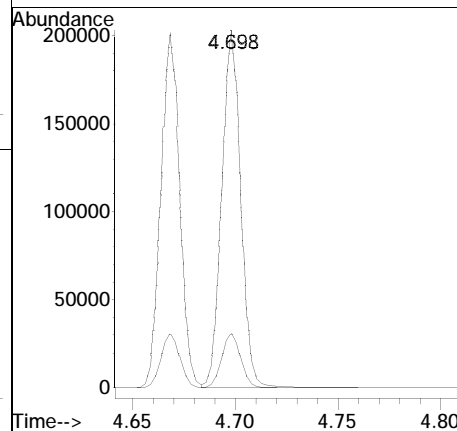
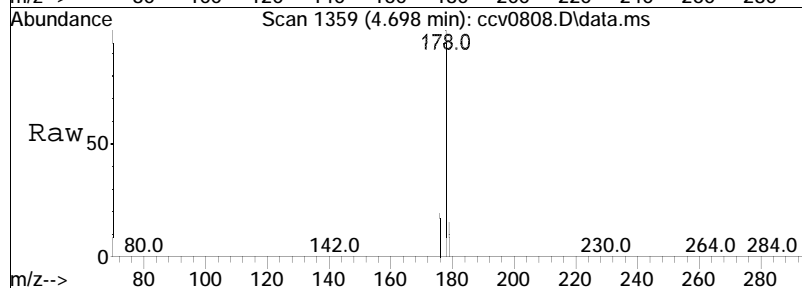
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.3	18.5

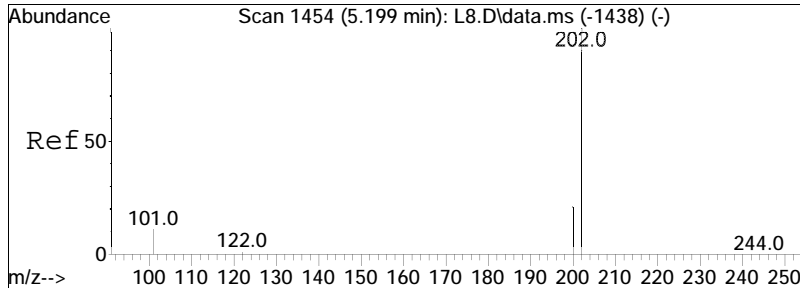




#25
 Anthracene
 Concen: 4.69 ug/ml
 RT: 4.698 min Scan# 1359
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

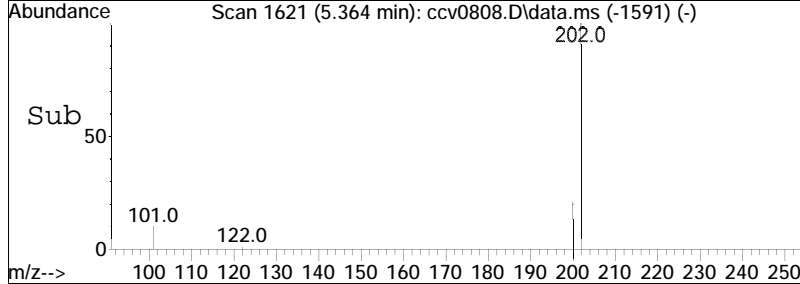
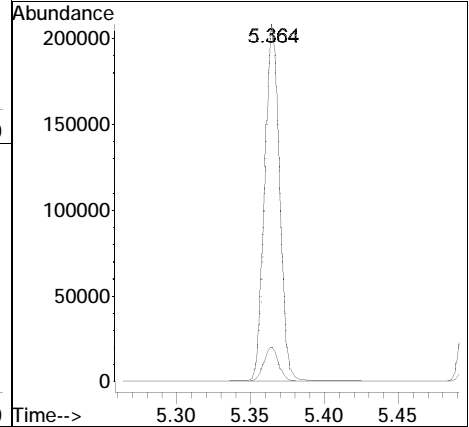
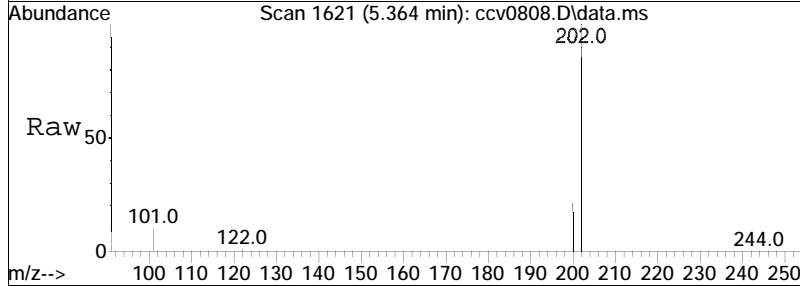
Tgt Ion	Resp	Lower	Upper
178	129988		
179	15.2	12.2	18.2

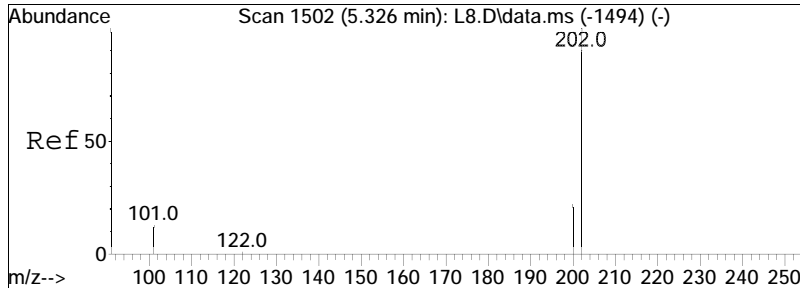




#27
 Fluoranthene
 Concen: 4.55 ug/ml
 RT: 5.364 min Scan# 1621
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

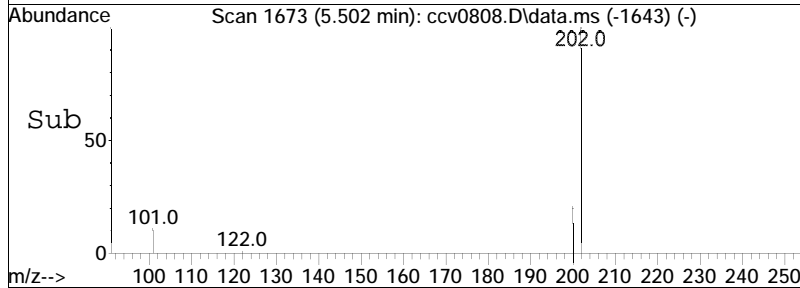
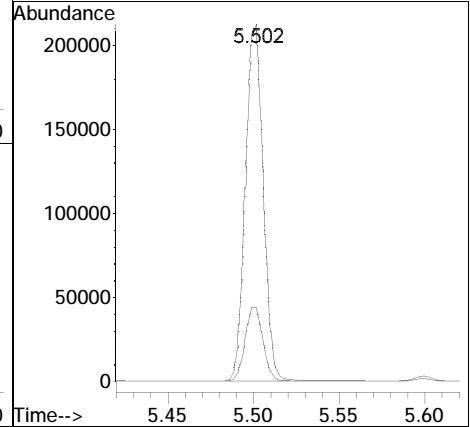
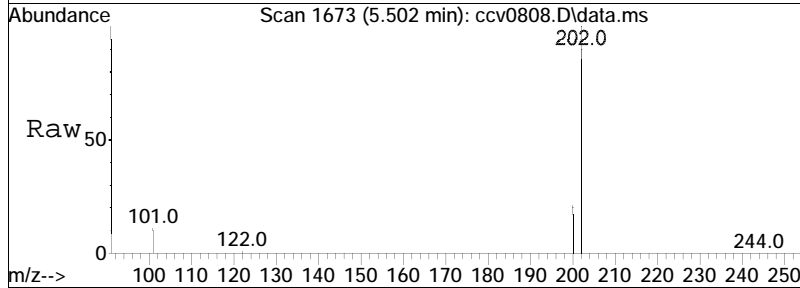
Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.7	9.3	13.9

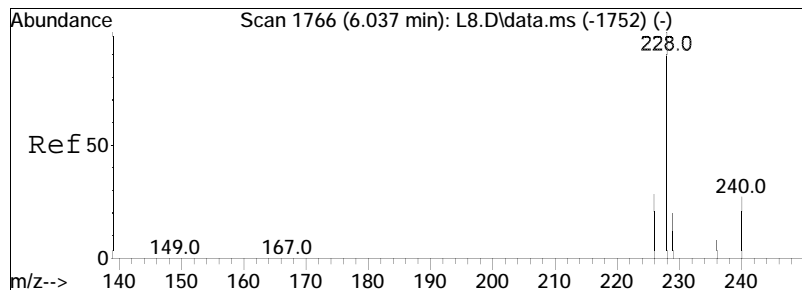




#28
 Pyrene
 Concen: 4.58 ug/ml
 RT: 5.502 min Scan# 1673
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

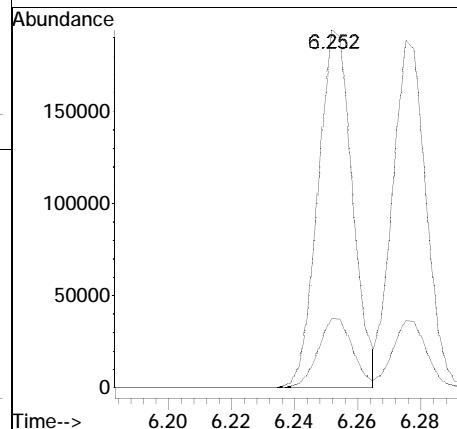
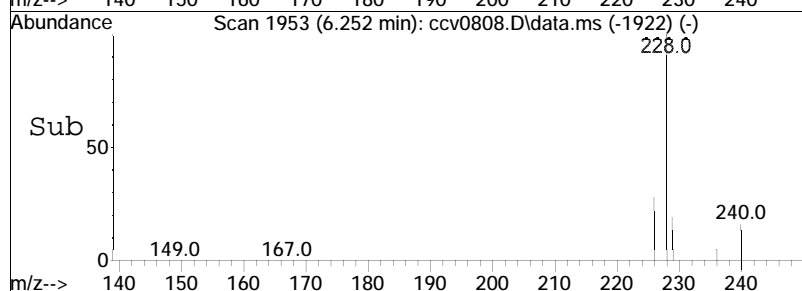
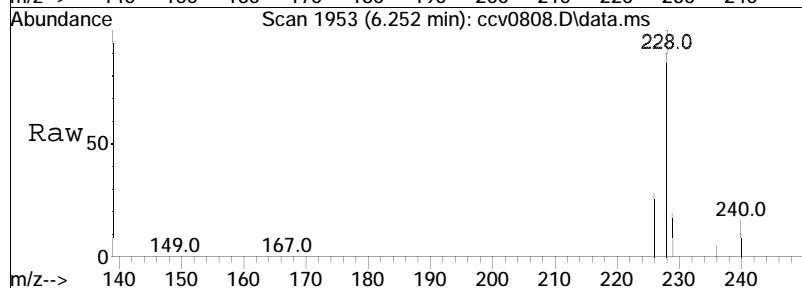
Tgt Ion	Resp	Lower	Upper
202	150886		
200	21.2	17.4	26.2

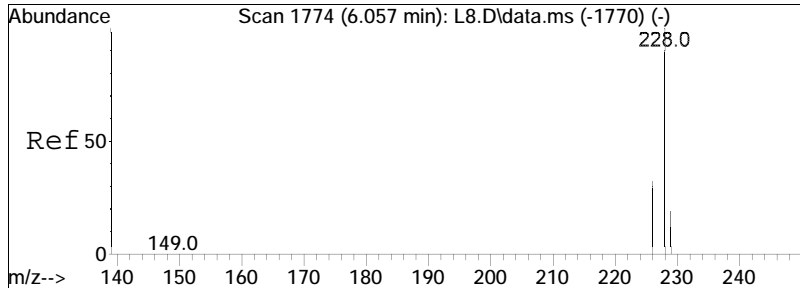




#31
 Benzo[a]anthracene
 Concen: 4.69 ug/ml
 RT: 6.252 min Scan# 1953
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

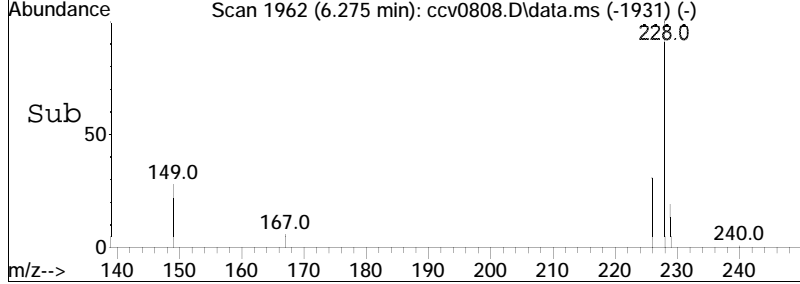
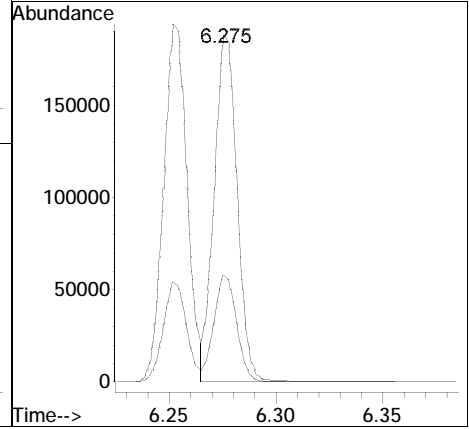
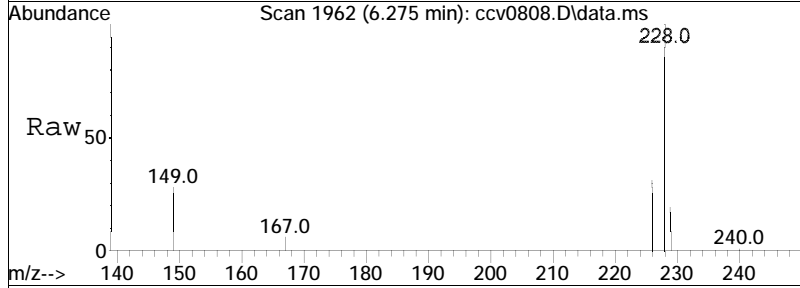
Tgt Ion	Resp	Lower	Upper
228	147446		
228	100		
229	19.5	15.6	23.4

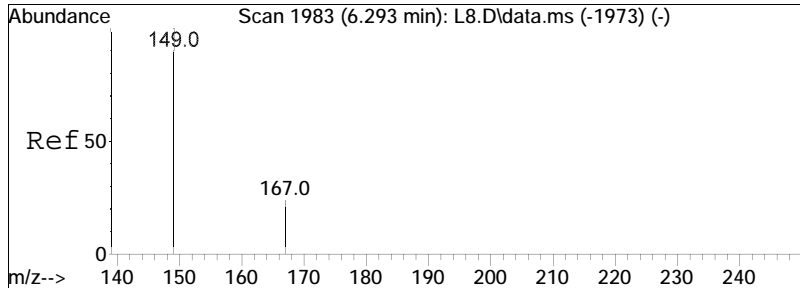




#32
 Chrysene
 Concen: 4.20 ug/ml
 RT: 6.275 min Scan# 1962
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

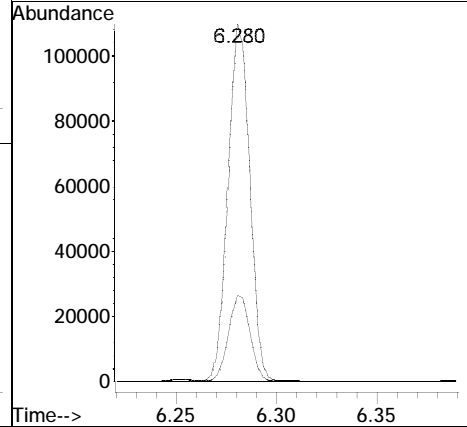
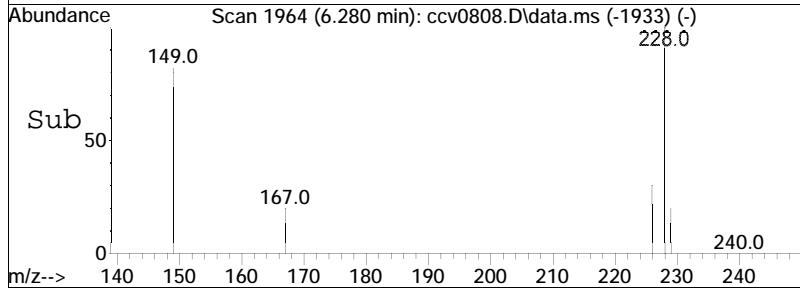
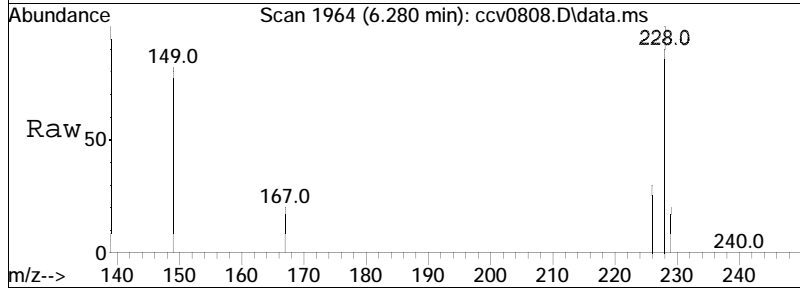
Tgt Ion	Resp	Lower	Upper
228	100		
226	30.6	24.9	37.3

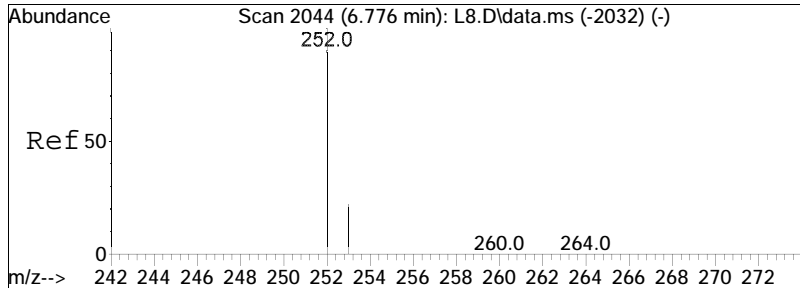




#33
 Bis(2-ethylhexyl)phthalate
 Concen: 5.24 ug/ml
 RT: 6.280 min Scan# 1964
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

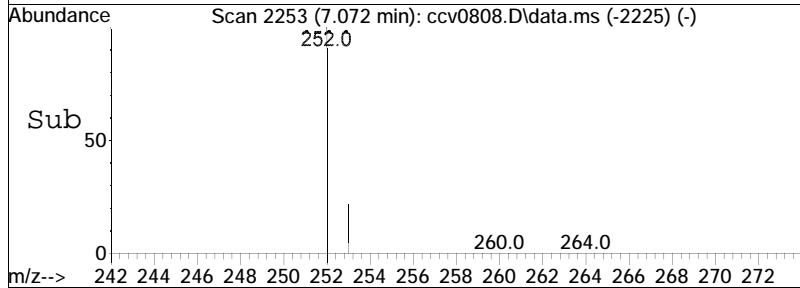
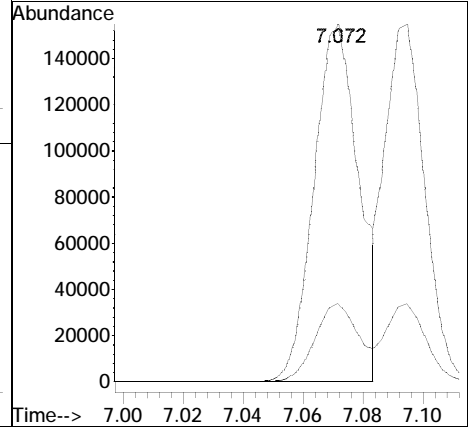
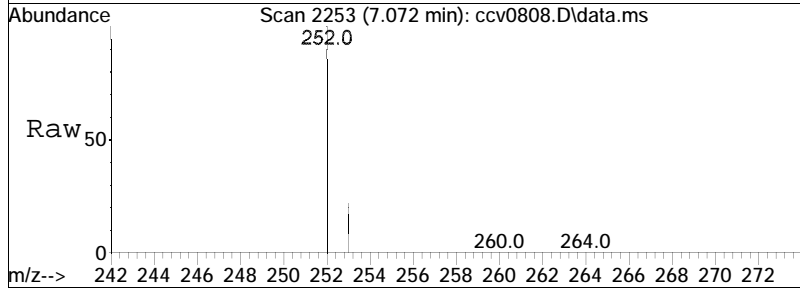
Tgt Ion:149 Resp: 81673
 Ion Ratio Lower Upper
 149 100
 167 24.2 18.2 27.2

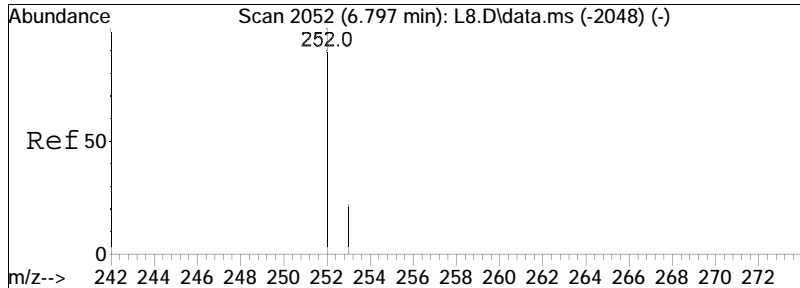




#35
 Benzo[b]fluoranthene
 Concen: 4.47 ug/ml
 RT: 7.072 min Scan# 2253
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

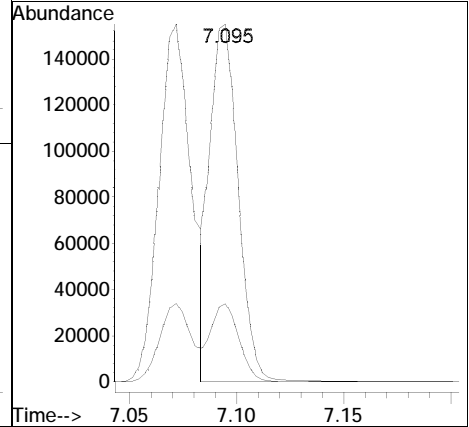
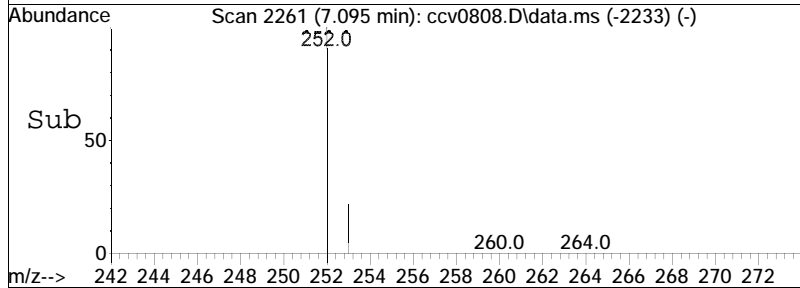
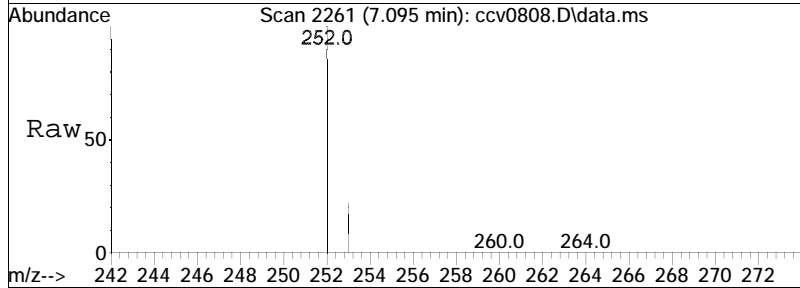
Tgt Ion	Resp	Lower	Upper
252	161719		
253	21.5	17.2	25.8

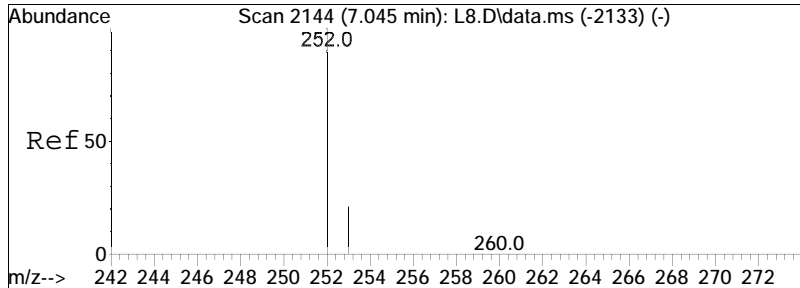




#36
 Benzo[k]fluoranthene
 Concen: 4.00 ug/ml
 RT: 7.095 min Scan# 2261
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

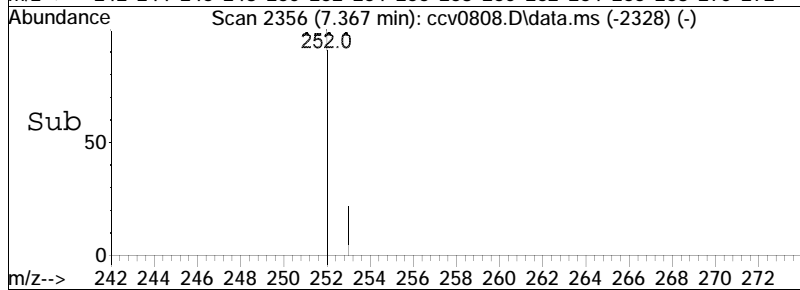
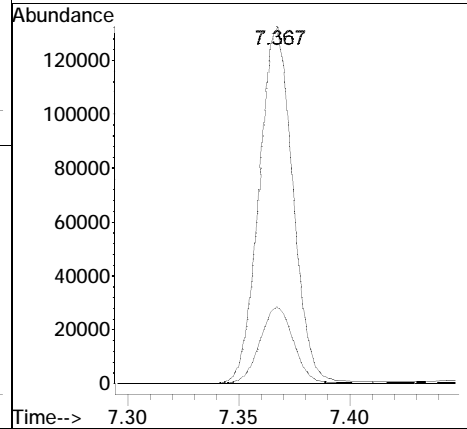
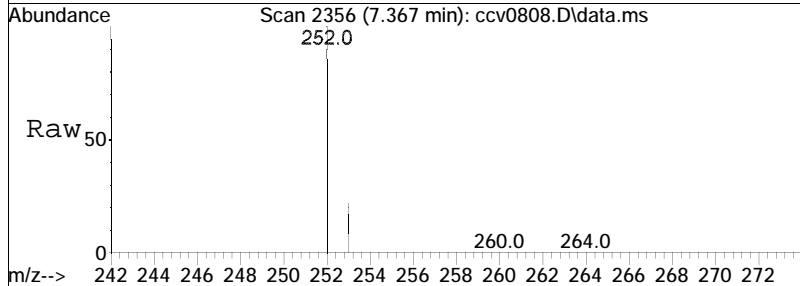
Tgt Ion	Resp	Lower	Upper
252	141583		
253	21.9	17.4	26.0

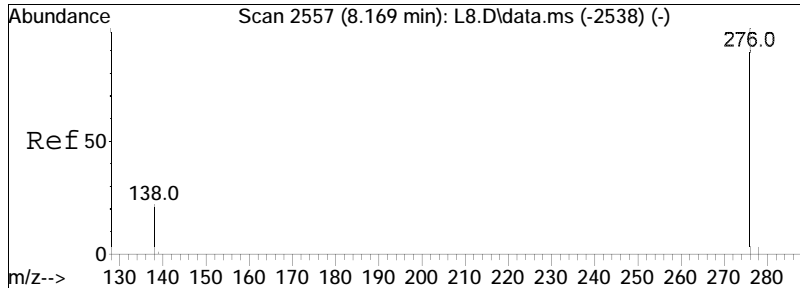




#37
 Benzo[a]pyrene
 Concen: 4.69 ug/ml
 RT: 7.367 min Scan# 2356
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

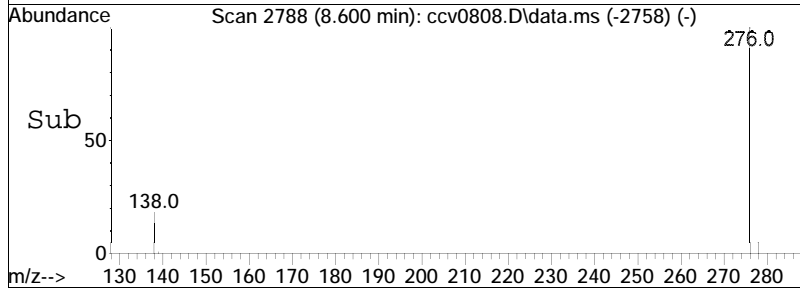
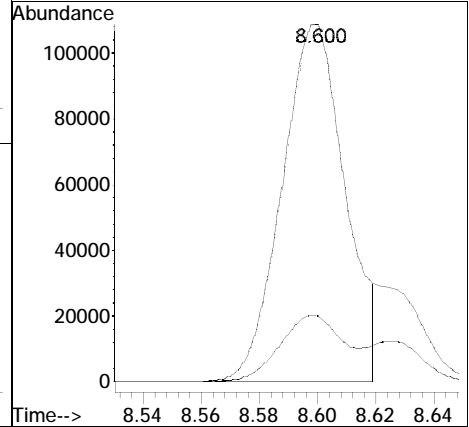
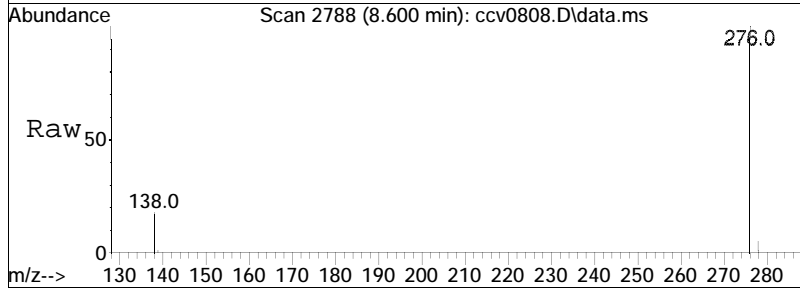
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.6	16.8	25.2

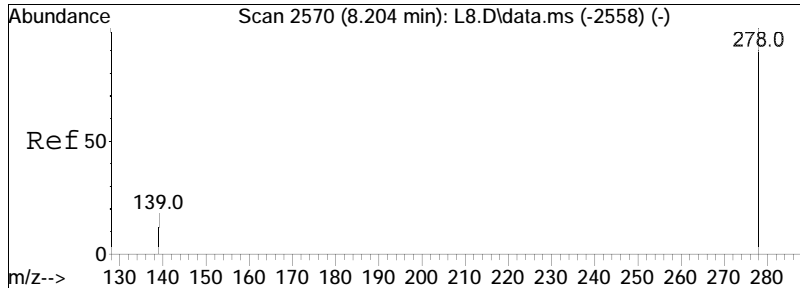




#38
 Indeno[1,2,3-cd]pyrene
 Concen: 5.99 ug/ml M6
 RT: 8.600 min Scan# 2788
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

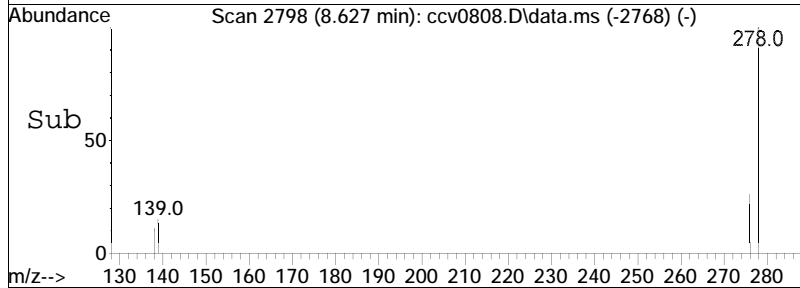
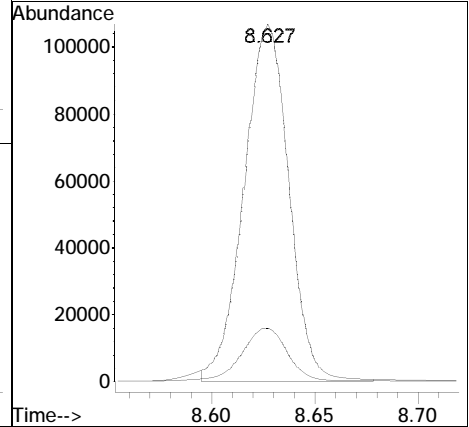
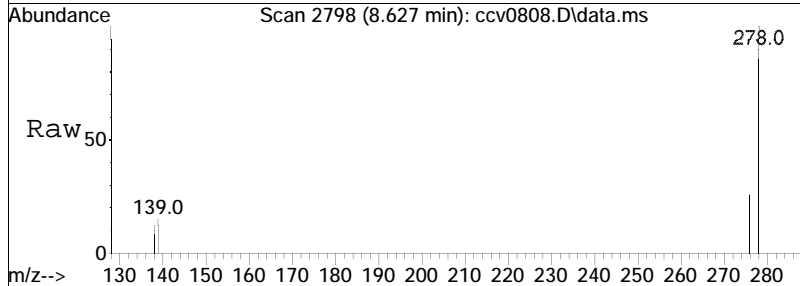
Tgt Ion	Resp	Lower	Upper
276	100		
138	18.4	17.9	26.9

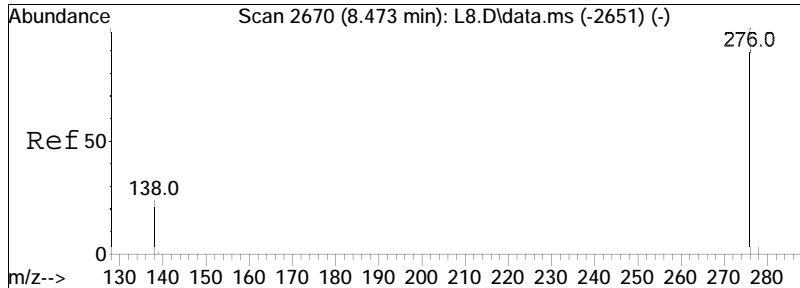




#39
 Dibenzo[a,h]anthracene
 Concen: 5.12 ug/ml M6
 RT: 8.627 min Scan# 2798
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

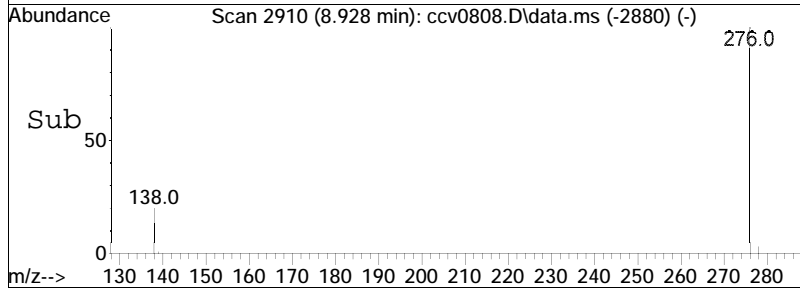
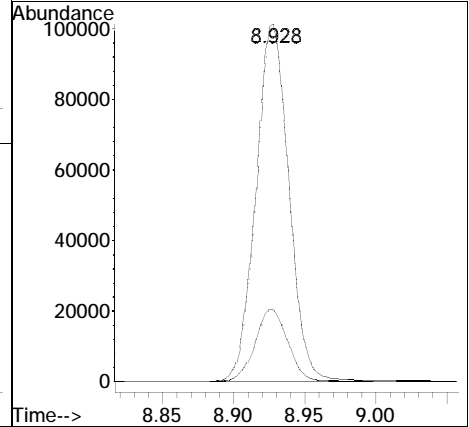
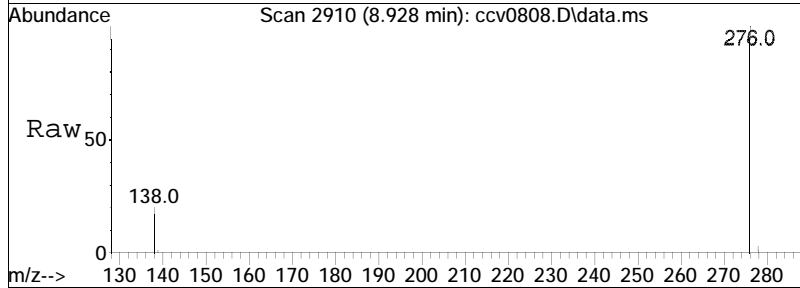
Tgt Ion	Resp	Lower	Upper
278	100		
139	15.3	15.9	23.9#





#40
 Benzo[g,h,i]perylene
 Concen: 4.64 ug/ml
 RT: 8.928 min Scan# 2910
 Delta R.T. 0.000 min
 Lab File: ccv0808.D
 Acq: 08 Aug 2023 07:57 am

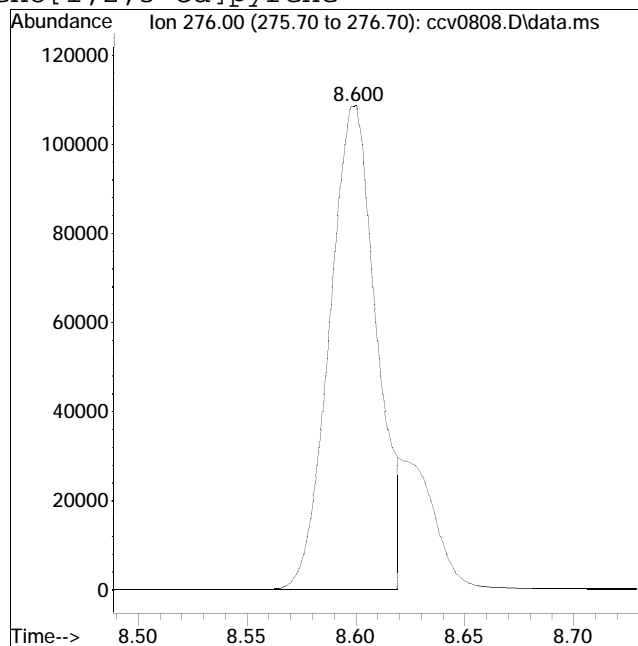
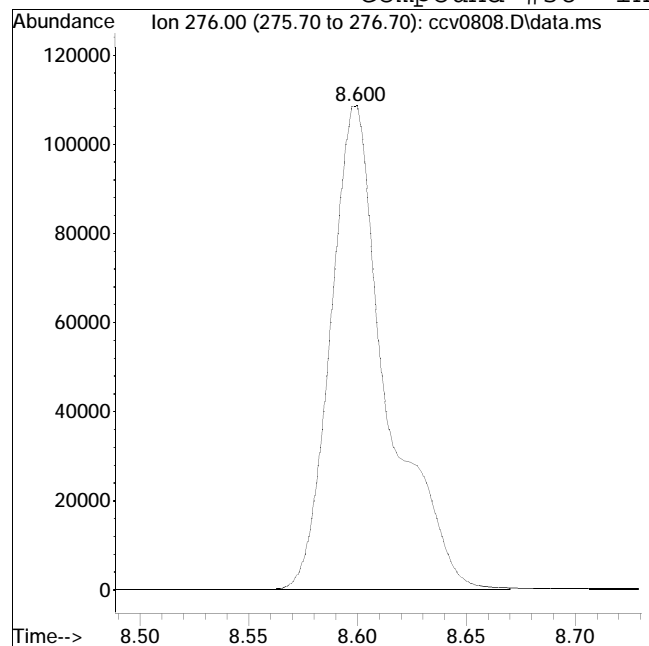
Tgt Ion	Resp	Lower	Upper
276	100		
138	20.3	20.1	30.1



Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : ccv0808.D Operator : SV120:ah
Date Inj'd : 8/8/2023 7:57 am Instrument : SV120
Sample : WG1813153-3,32,, ICV 10146 Quant Date : 8/8/2023 8:28 am

Compound #38: Indeno[1,2,3-cd]pyrene



Original Peak Response = 195053

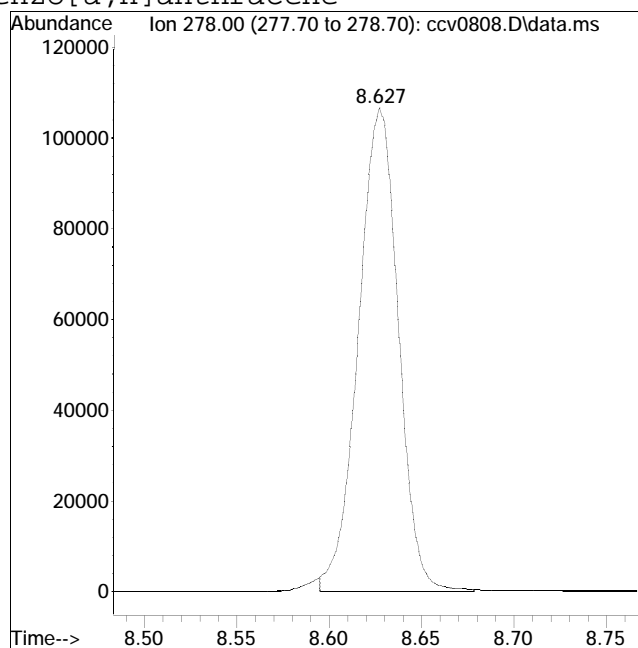
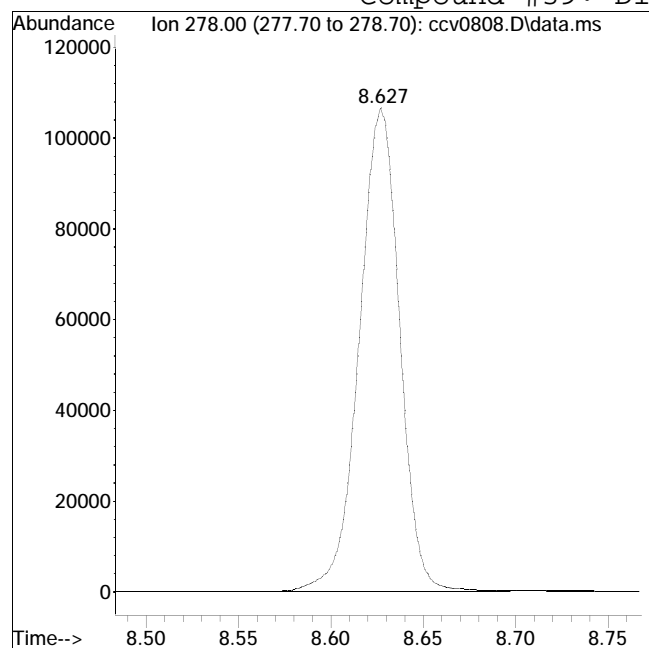
Manual Peak Response = 163507 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : ccv0808.D Operator : SV120:ah
Date Inj'd : 8/8/2023 7:57 am Instrument : SV120
Sample : WG1813153-3,32,, ICV 10146 Quant Date : 8/8/2023 8:28 am

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 162418

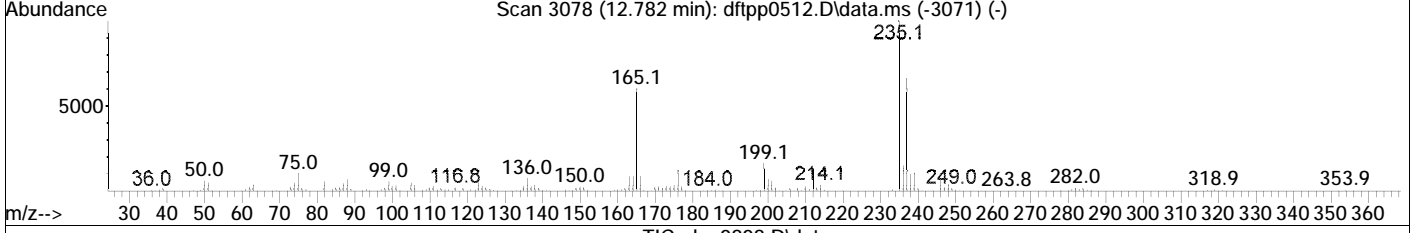
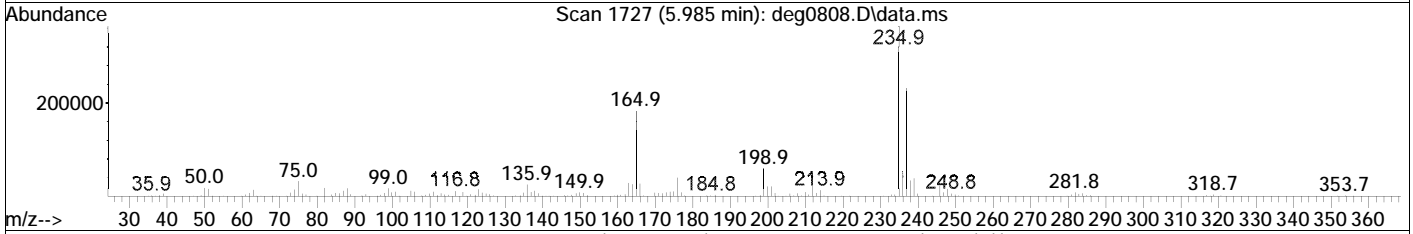
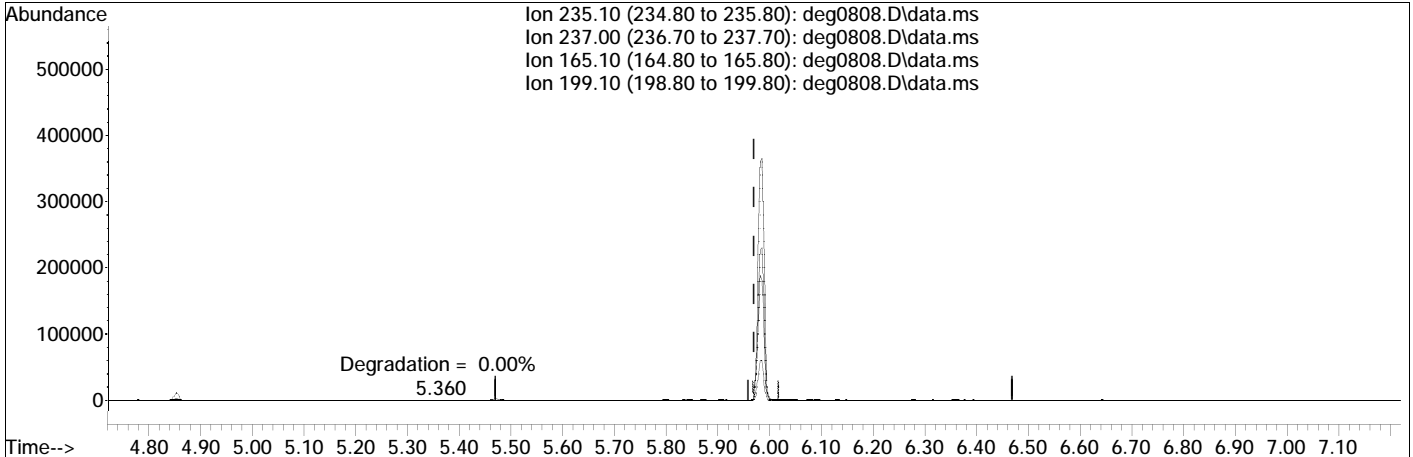
Manual Peak Response = 160421 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : deg0808.D
 Acq On : 08 Aug 2023 07:32 am
 Operator : SV120:ah
 Sample : WG1813153-2,32,,dftpp sv120
 Misc : WG1813153,,ical19770
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Aug 08 07:54:51 2023
 Quant Method : I:\8270SIM\sv120\230808ST\dftppsv120.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jun 20 09:50:16 2023
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



TIC: deg0808.D\data.ms

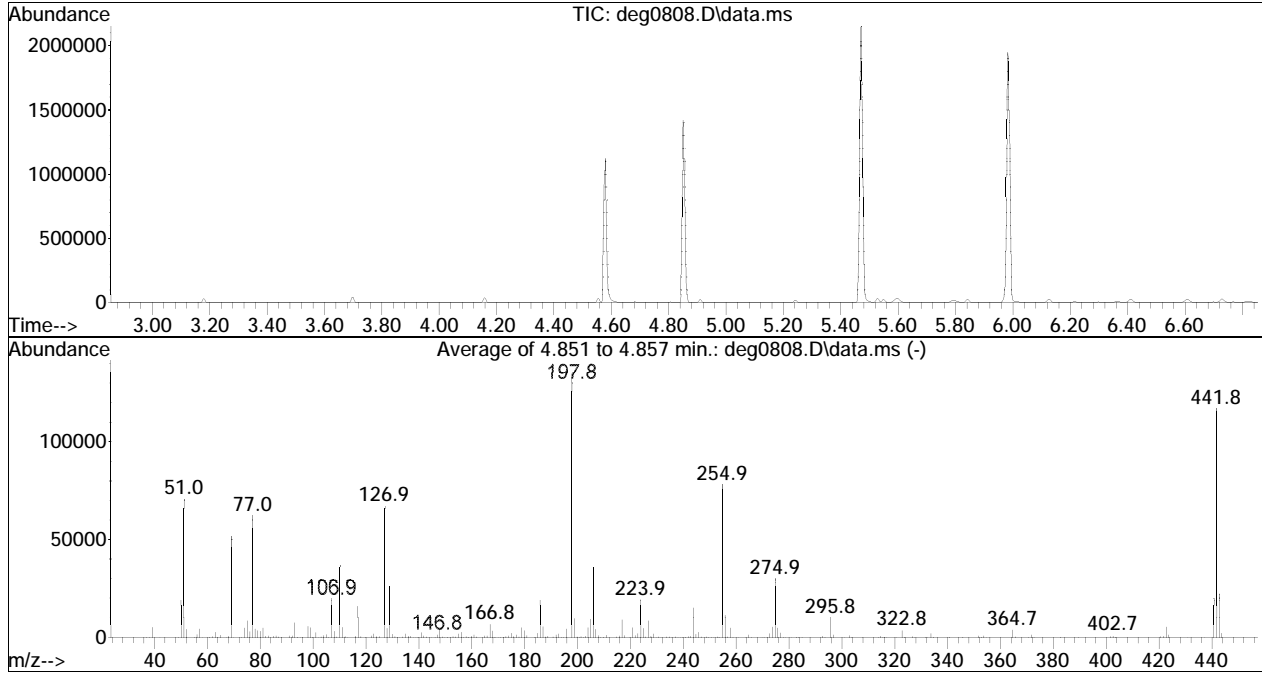
(6) ddt (T)		
5.985min (+ 0.015)	44.65	
response	272186	
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.73
165.10	53.30	51.44
199.10	17.10	16.18

DFTPP

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : deg0808.D
 Acq On : 08 Aug 2023 07:32 am
 Operator : SV120:ah
 Sample : WG1813153-1,32,,dftpp sv120
 Misc : WG1813153,,ical19770
 ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\230808ST\simtech230222-sv120.M
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Tue Aug 08 08:27:51 2023



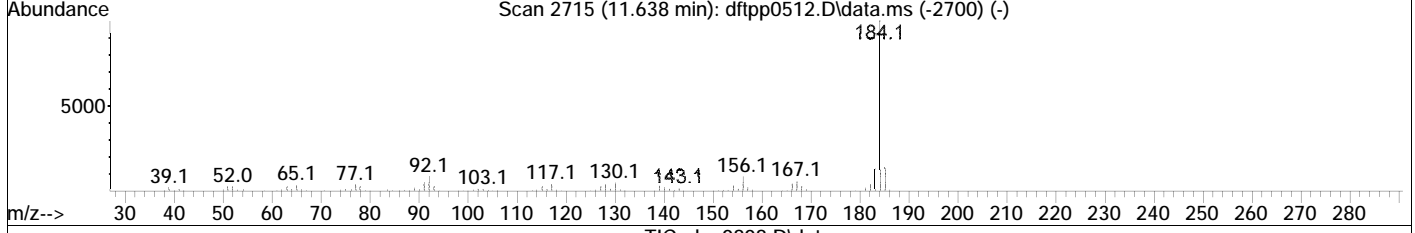
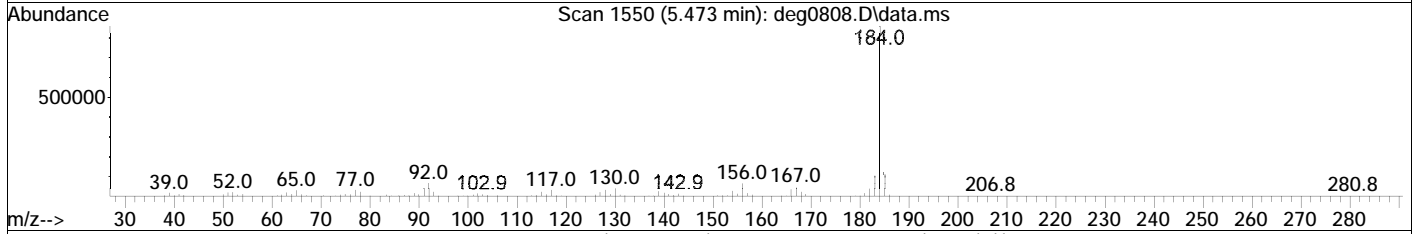
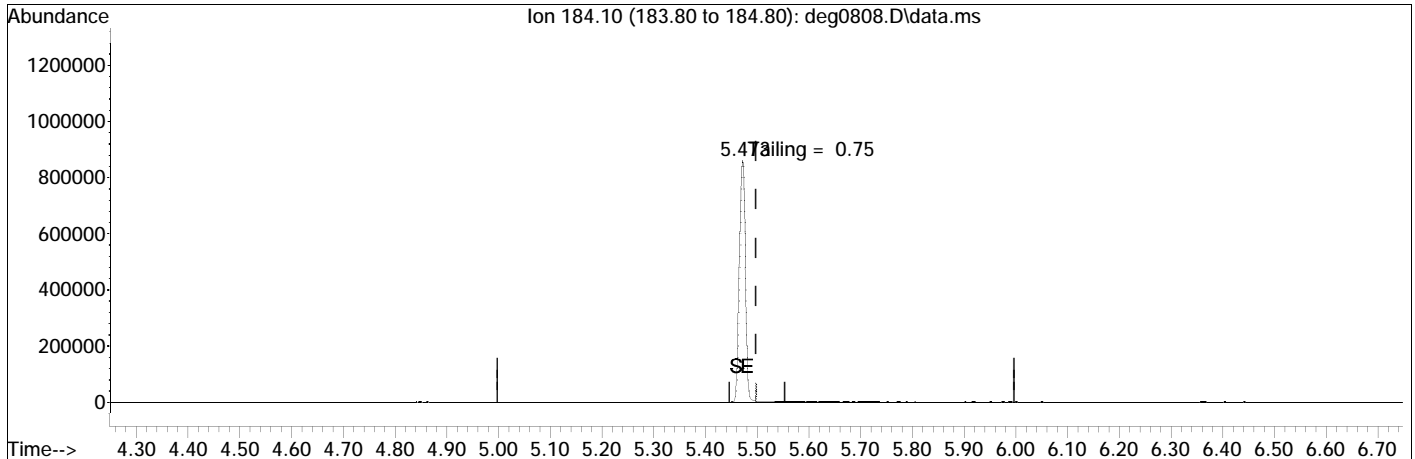
Spectrum Information: Average of 4.851 to 4.857 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	52.3	70496	PASS
68	69	0.00	2	1.9	981	PASS
69	69	100	100	100.0	51379	PASS
70	69	0.00	2	0.3	161	PASS
127	198	10	80	49.9	67299	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	134851	PASS
199	198	5	9	7.0	9417	PASS
275	198	10	60	22.1	29779	PASS
365	198	1	100	2.9	3944	PASS
441	442	0.01	24	17.0	19891	PASS
442	198	50	100	86.6	116824	PASS
443	442	15	24	19.3	22597	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : deg0808.D
 Acq On : 08 Aug 2023 07:32 am
 Operator : SV120:ah
 Sample : WG1813153-4,32,,dftpp sv120
 Misc : WG1813153,,ical19770
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Aug 08 07:54:51 2023
 Quant Method : I:\8270SIM\sv120\230808ST\dftppsv120.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jun 20 09:50:16 2023
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



TIC: deg0808.D\data.ms

(3) benzidine (T)

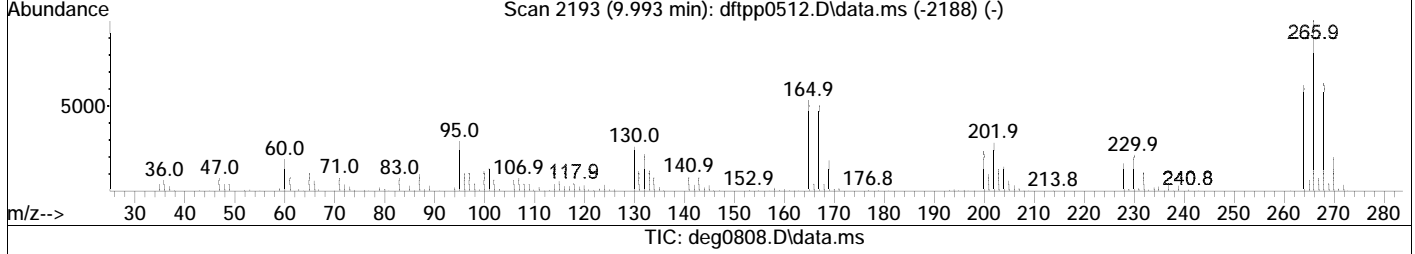
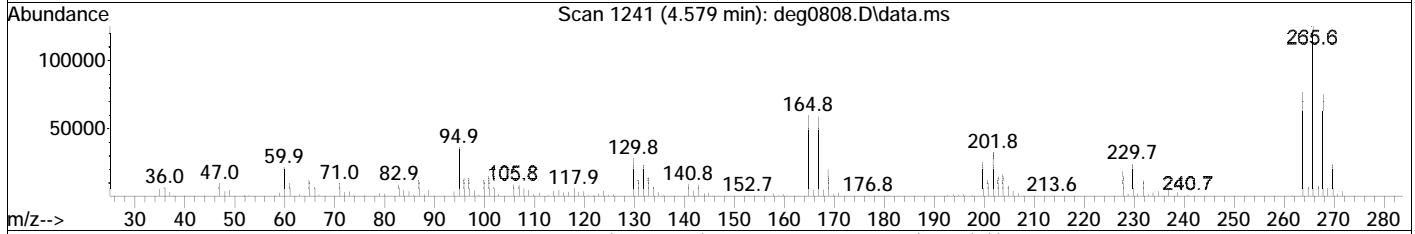
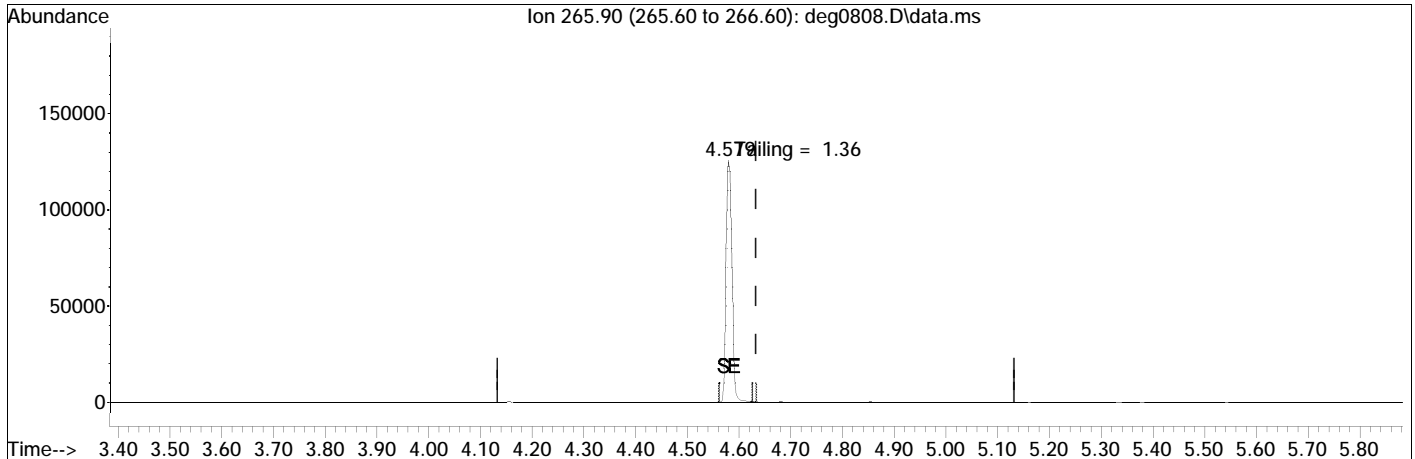
5.473min (-0.025) 63.21

response	643456
Ion	Exp% Act%
184.10	100.00 100.00
0.00	0.00 0.00
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : deg0808.D
 Acq On : 08 Aug 2023 07:32 am
 Operator : SV120:ah
 Sample : WG1813153-5,32,,dftpp sv120
 Misc : WG1813153,,ical19770
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Aug 08 07:54:51 2023
 Quant Method : I:\8270SIM\sv120\230808ST\dftppsv120.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Jun 20 09:50:16 2023
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



TIC: deg0808.D\data.ms

(1) pentachlorophenol (T)		
4.579min (-0.054)	43.47	
response	91300	
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 809555-1.D
 Acq On : 08 Aug 2023 02:07 pm
 Operator : SV120:jjw
 Sample : Wg1809555-1,32,,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 09 09:07:09 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230808ST\ccv0808.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.201	152	28768	4.000	ug/ml	0.02
Standard Area 1 = 25900			Recovery =	111.07%		
8) Naphthalene-d8	2.862	136	109320	4.000	ug/ml	0.02
Standard Area 1 = 96934			Recovery =	112.78%		
16) Acenaphthene-d10	3.832	164	60171	4.000	ug/ml	0.01
Standard Area 1 = 51703			Recovery =	116.38%		
20) Phenanthrene-d10	4.666	188	132716	4.000	ug/ml	0.01
Standard Area 1 = 107414			Recovery =	123.56%		
30) Chrysene-d12	6.208	240	130012M1	4.000	ug/ml	-0.05
Standard Area 1 = 96547			Recovery =	134.66%		
34) Perylene-d12	7.373	264	150135	4.000	ug/ml	-0.05
Standard Area 1 = 119148			Recovery =	126.01%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.610	112	181835M3	24.386	ug/ml	0.03
Spiked Amount	50.000	Range 15 - 110	Recovery =	48.77%		
3) Phenol-d6	2.020	99	151924	16.493	ug/ml	0.03
Spiked Amount	50.000	Range 15 - 110	Recovery =	32.99%		
7) Nitrobenzene-d5	2.482	82	152199	20.943	ug/ml	0.02
Spiked Amount	25.000	Range 30 - 130	Recovery =	83.77%		
13) 2-Fluorobiphenyl	3.456	172	377226	17.459	ug/ml	0.02
Spiked Amount	25.000	Range 30 - 130	Recovery =	69.84%		
19) 2,4,6-Tribromophenol	4.278	330	66322	21.974	ug/ml	0.01
Spiked Amount	50.000	Range 15 - 110	Recovery =	43.95%		
26) O-Terphenyl-MS	0.000	230	0d	0.000	ug/ml	
Spiked Amount	20.000	Range 40 - 140	Recovery =	0.00%#		
29) 4-Terphenyl-d14	5.581	244	533910	19.609	ug/ml	-0.02
Spiked Amount	25.000	Range 30 - 130	Recovery =	78.44%		
Target Compounds						
4) Hexachloroethane	0.000		0		N.D. d	Qvalue
9) Naphthalene	2.873	128	326M4	0.012	ug/ml	
10) Hexachlorobutadiene	0.000		0		N.D. d	
11) 2-Methylnaphthalene	0.000		0		N.D. d	
14) 2-Chloronaphthalene	0.000		0		N.D. d	
15) Acenaphthylene	0.000		0		N.D. d	
17) Acenaphthene	0.000		0		N.D. d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 809555-1.D
 Acq On : 08 Aug 2023 02:07 pm
 Operator : SV120:jjw
 Sample : Wg1809555-1,32,,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 09 09:07:09 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230808ST\ccv0808.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Fluorene	0.000		0		N.D.	d
22) Hexachlorobenzene	0.000		0		N.D.	d
23) Pentachlorophenol	0.000		0		N.D.	d
24) Phenanthrene	0.000		0		N.D.	d
25) Anthracene	0.000		0		N.D.	d
27) Fluoranthene	0.000		0		N.D.	d
28) Pyrene	0.000		0		N.D.	d
31) Benzo[a]anthracene	0.000		0		N.D.	d
32) Chrysene	0.000		0		N.D.	d
35) Benzo[b]fluoranthene	0.000		0		N.D.	d
36) Benzo[k]fluoranthene	0.000		0		N.D.	d
37) Benzo[a]pyrene	0.000		0		N.D.	d
38) Indeno[1,2,3-cd]pyrene	8.559	276	420M6	0.012	ug/ml	
39) Dibenzo[a,h]anthracene	8.592	278	488	0.012	ug/ml	96
40) Benzo[g,h,i]perylene	0.000		0		N.D.	d

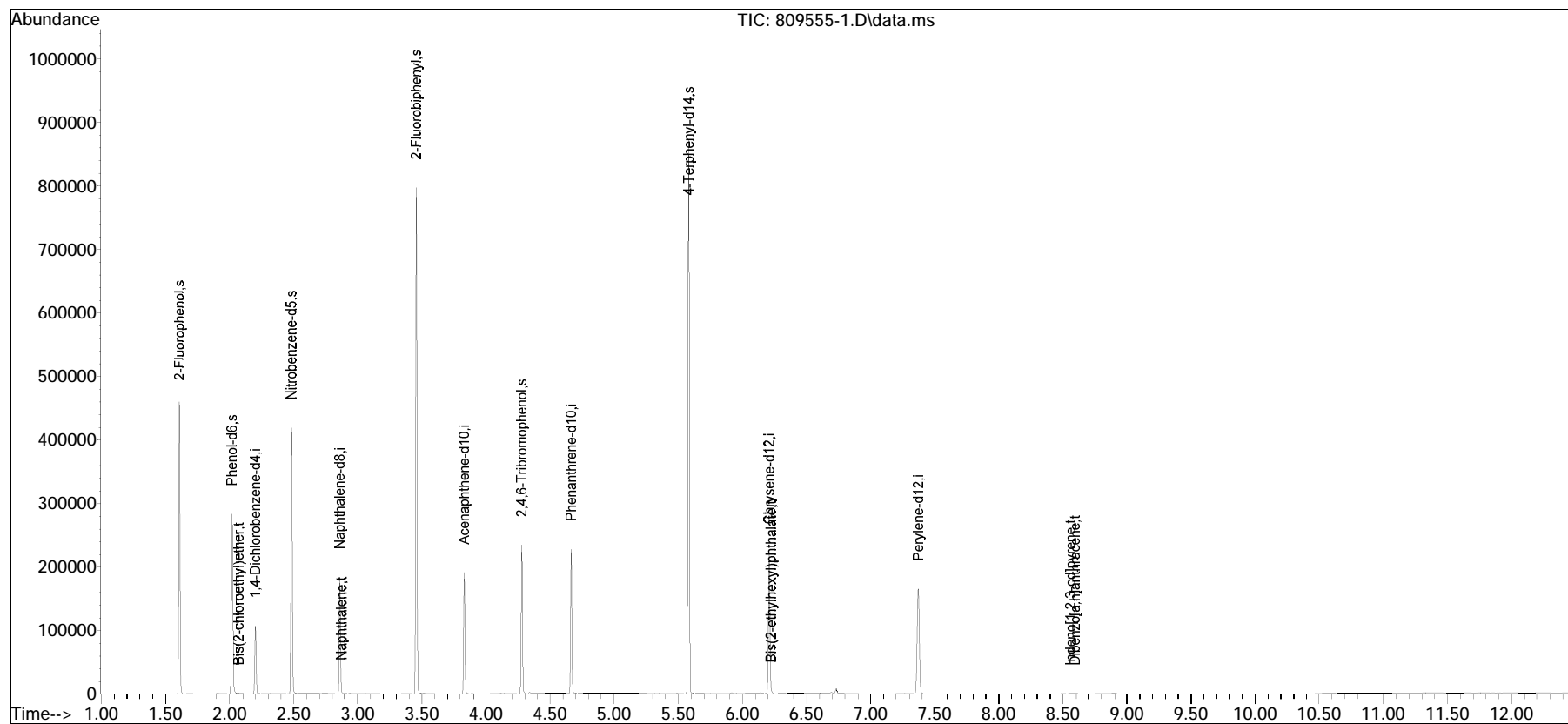
(#) = qualifier out of range (m) = manual integration (+) = signals summed

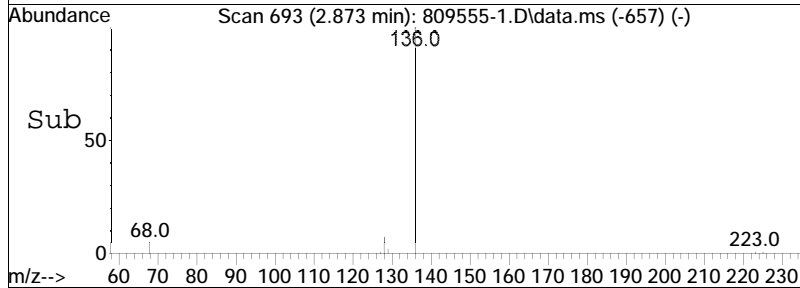
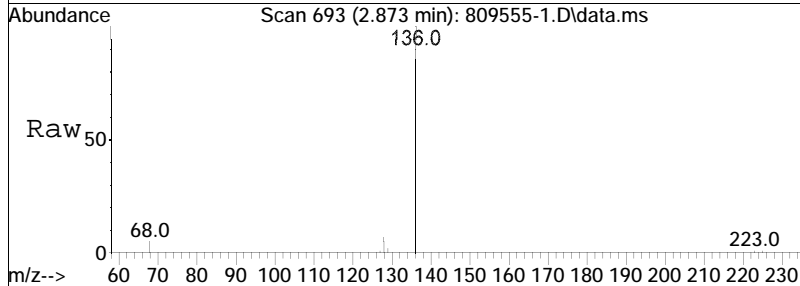
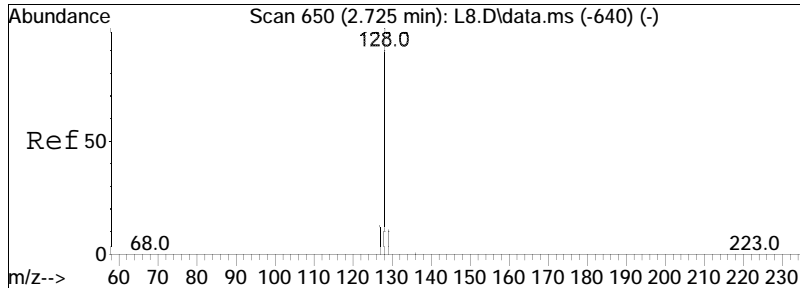
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
Data File : 809555-1.D
Acq On : 08 Aug 2023 02:07 pm
Operator : SV120:jjw
Sample : Wg1809555-1,32,,RV,TIC
Misc : WG1813153,wg1809555,ical19770
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 09 09:07:09 2023
Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Aug 08 08:27:51 2023
Response via : Initial Calibration

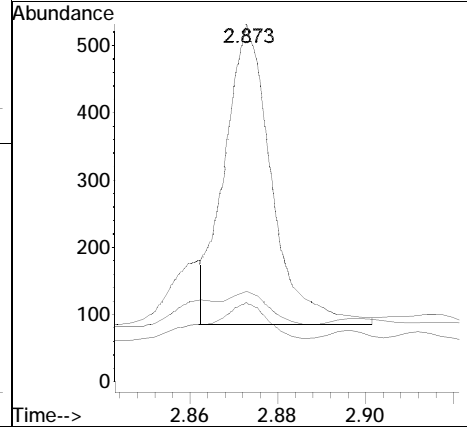
Sub List : DEFAULT - All compounds listedccv0808.D•

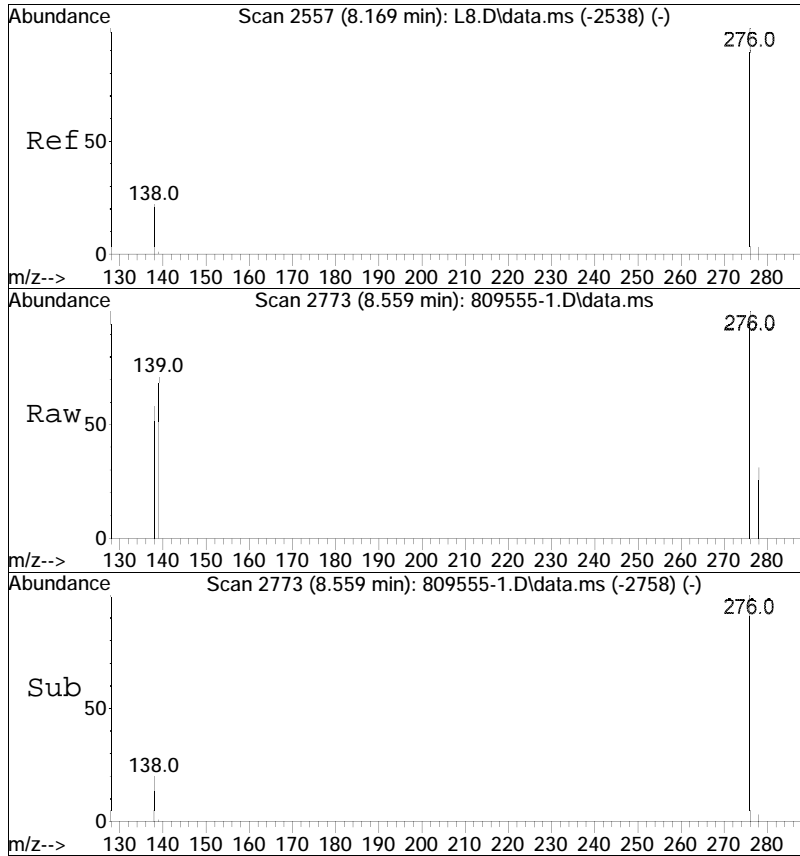




#9
 Naphthalene
 Concen: 0.01 ug/ml M4
 RT: 2.873 min Scan# 693
 Delta R.T. 0.021 min
 Lab File: 809555-1.D
 Acq: 08 Aug 2023 02:07 pm

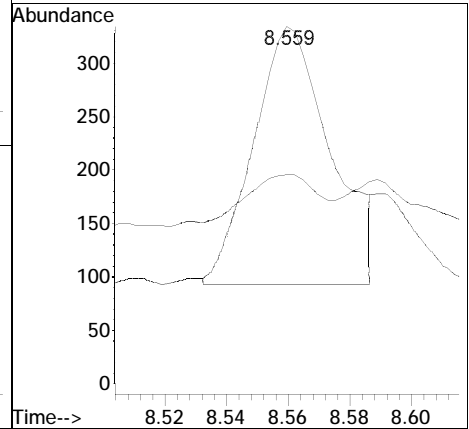
Tgt Ion	Resp	Lower	Upper
128	326		
129	10.1	8.7	13.1
127	12.0	10.8	16.2

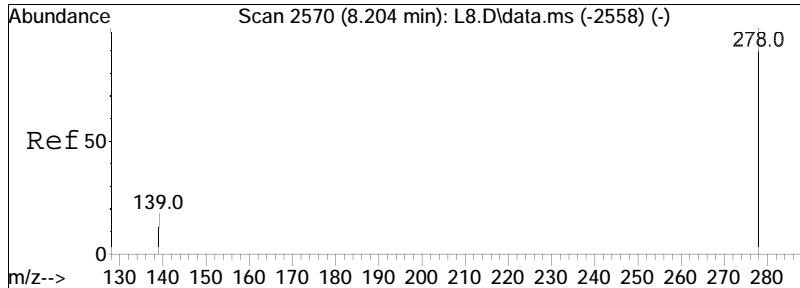




#38
 Indeno[1,2,3-cd]pyrene
 Concen: 0.01 ug/ml M6
 RT: 8.559 min Scan# 2773
 Delta R.T. -0.041 min
 Lab File: 809555-1.D
 Acq: 08 Aug 2023 02:07 pm

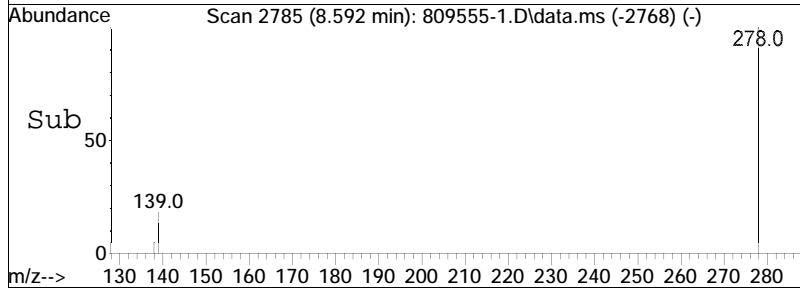
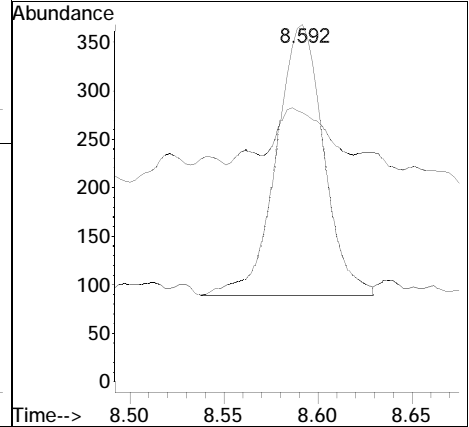
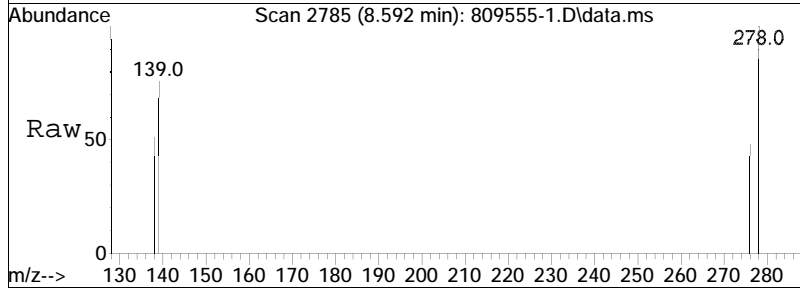
Tgt Ion	Resp	Lower	Upper
276	100		
138	19.0	17.9	26.9





#39
 Dibenzo[a,h]anthracene
 Concen: 0.01 ug/ml
 RT: 8.592 min Scan# 2785
 Delta R.T. -0.035 min
 Lab File: 809555-1.D
 Acq: 08 Aug 2023 02:07 pm

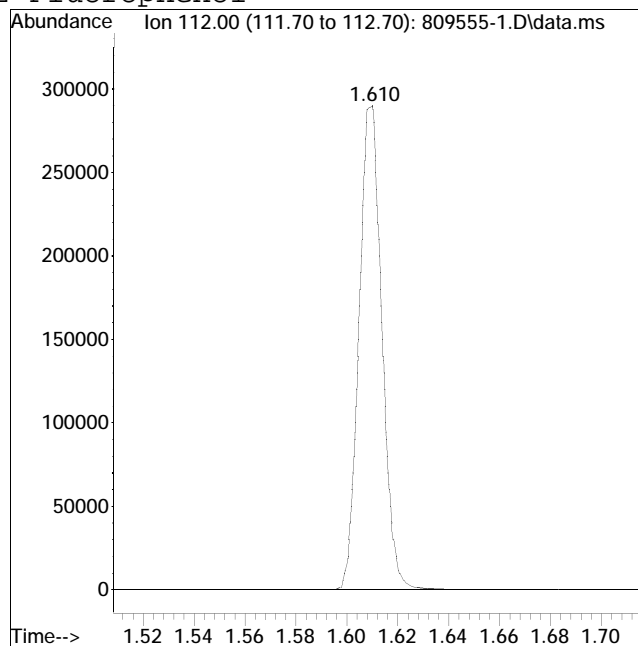
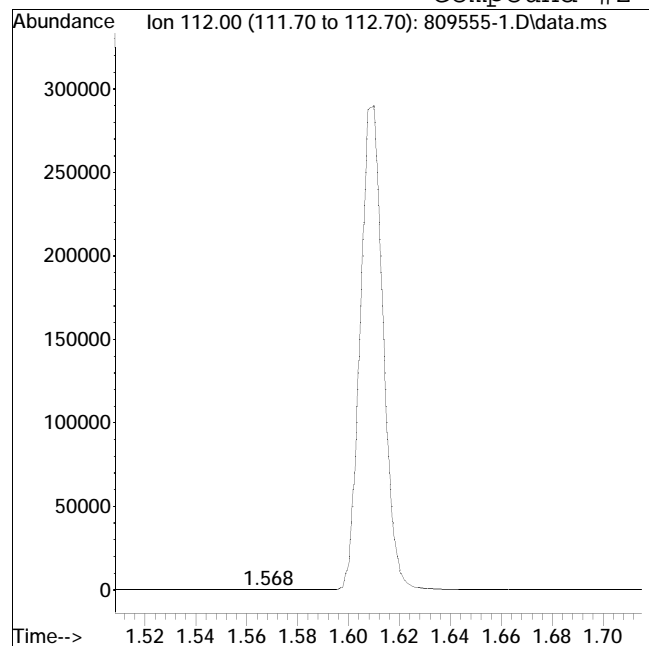
Tgt Ion	Resp	Lower	Upper
278	100		
139	18.0	15.9	23.9



Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 809555-1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 2:07 pm Instrument : SV120
Sample : Wg1809555-1,32,,RV,TIC Quant Date : 8/8/2023 2:20 pm

Compound #2: 2-Fluorophenol



Original Peak Response = 2

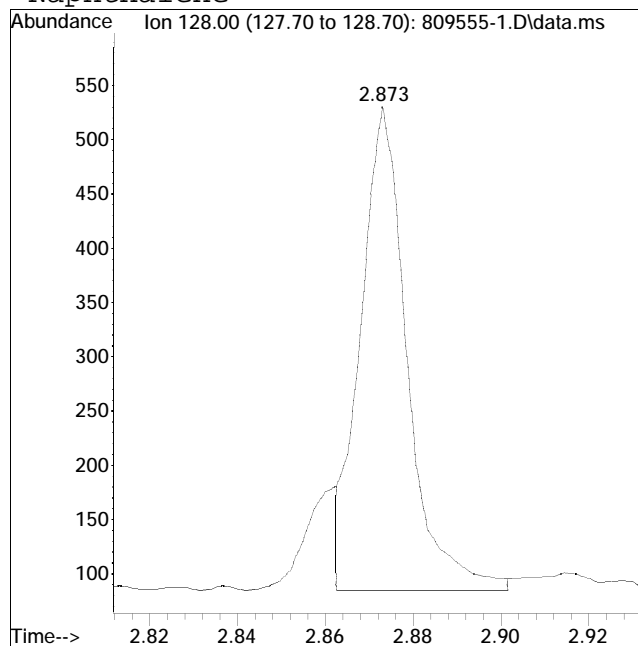
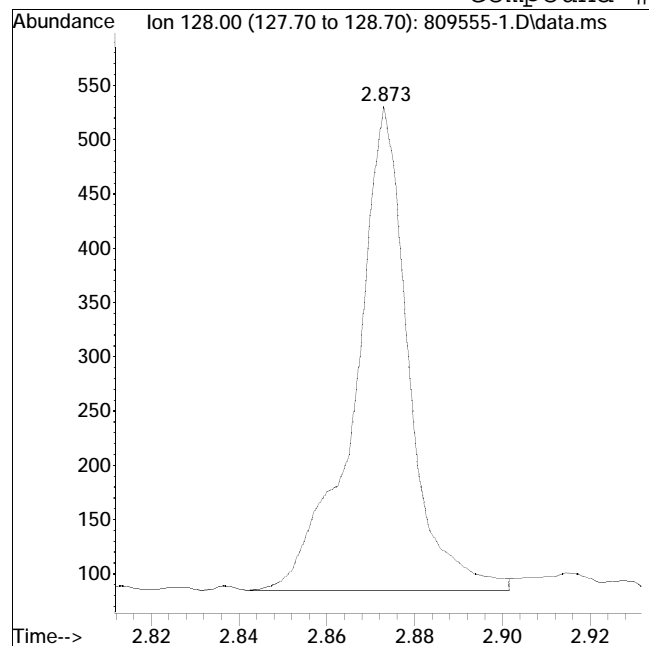
Manual Peak Response = 181835 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 809555-1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 2:07 pm Instrument : SV120
Sample : Wg1809555-1,32,,RV,TIC Quant Date : 8/8/2023 2:20 pm

Compound #9: Naphthalene



Original Peak Response = 378

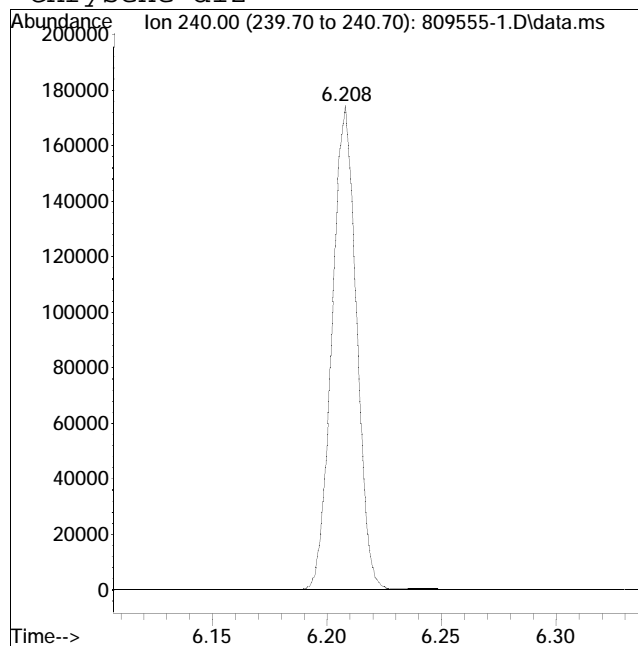
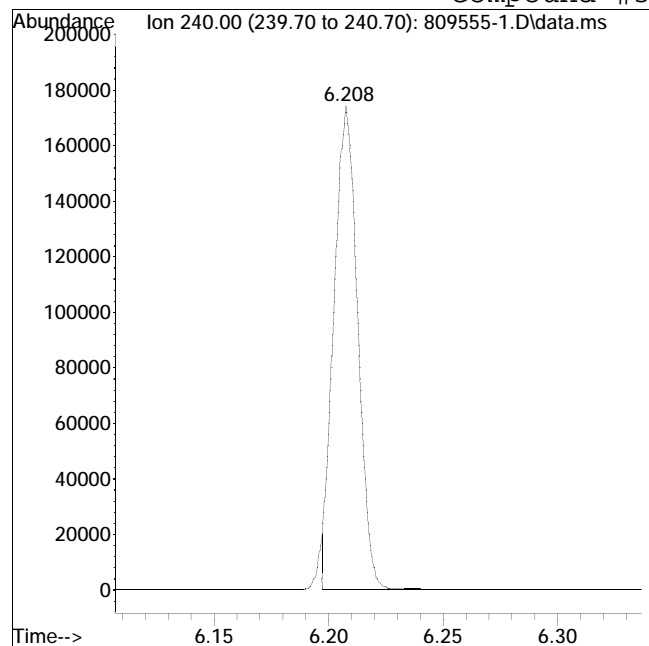
Manual Peak Response = 326 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 809555-1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 2:07 pm Instrument : SV120
Sample : Wg1809555-1,32,,RV,TIC Quant Date : 8/8/2023 2:20 pm

Compound #30: Chrysene-d12



Original Peak Response = 124963

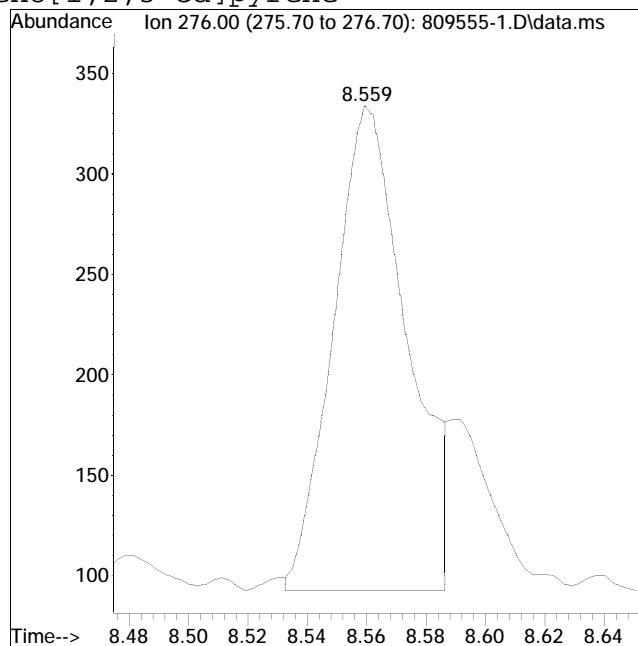
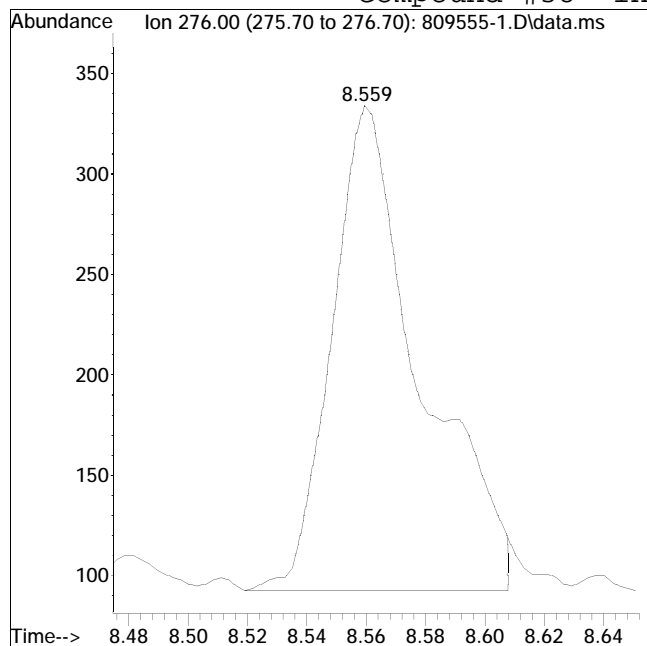
Manual Peak Response = 130012 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 809555-1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 2:07 pm Instrument : SV120
Sample : Wg1809555-1,32,,RV,TIC Quant Date : 8/8/2023 2:20 pm

Compound #38: Indeno[1,2,3-cd]pyrene



Original Peak Response = 499

Manual Peak Response = 420 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 809555-2.D
 Acq On : 08 Aug 2023 02:23 pm
 Operator : SV120:jjw
 Sample : Wg1809555-2,32,,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 09 09:09:00 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230808ST\ccv0808.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.204	152	35721	4.000	ug/ml	0.03
Standard Area 1 = 25900			Recovery =	137.92%		
8) Naphthalene-d8	2.863	136	133609	4.000	ug/ml	0.02
Standard Area 1 = 96934			Recovery =	137.84%		
16) Acenaphthene-d10	3.832	164	70977	4.000	ug/ml	0.01
Standard Area 1 = 51703			Recovery =	137.28%		
20) Phenanthrene-d10	4.667	188	157188	4.000	ug/ml	0.01
Standard Area 1 = 107414			Recovery =	146.34%		
30) Chrysene-d12	6.208	240	163400M1	4.000	ug/ml	-0.05
Standard Area 1 = 96547			Recovery =	169.24%		
34) Perylene-d12	7.371	264	190080	4.000	ug/ml	-0.05
Standard Area 1 = 119148			Recovery =	159.53%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.610	112	173121	18.698	ug/ml	0.03
Spiked Amount 50.000	Range 15 - 110		Recovery =	37.40%		
3) Phenol-d6	2.020	99	149307	13.054	ug/ml	0.03
Spiked Amount 50.000	Range 15 - 110		Recovery =	26.11%		
7) Nitrobenzene-d5	2.485	82	138333	15.330	ug/ml	0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	61.32%		
13) 2-Fluorobiphenyl	3.456	172	325584	12.329	ug/ml	0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	49.32%		
19) 2,4,6-Tribromophenol	4.278	330	54091	15.539	ug/ml	0.01
Spiked Amount 50.000	Range 15 - 110		Recovery =	31.08%		
26) O-Terphenyl-MS	0.000	230	0d	0.000	ug/ml	
Spiked Amount 20.000	Range 40 - 140		Recovery =	0.00%#		
29) 4-Terphenyl-d14	5.579	244	460026	14.265	ug/ml	-0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	57.06%		
Target Compounds						
4) Hexachloroethane	2.459	117	16988M3	3.941	ug/ml	
9) Naphthalene	2.873	128	163363	4.749	ug/ml	100
10) Hexachlorobutadiene	2.943	225	29006	4.500	ug/ml	100
11) 2-Methylnaphthalene	3.253	142	106683	4.938	ug/ml	99
14) 2-Chloronaphthalene	3.523	162	106702	4.670	ug/ml	100
15) Acenaphthylene	3.751	152	177199	5.389	ug/ml	100
17) Acenaphthene	3.851	153	114301	4.724	ug/ml	96
18) Fluorene	4.140	166	125803	4.939	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 809555-2.D
 Acq On : 08 Aug 2023 02:23 pm
 Operator : SV120:jjw
 Sample : Wg1809555-2,32,,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 09 09:09:00 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230808ST\ccv0808.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) Hexachlorobenzene	4.457	284	36409	3.877	ug/ml	90
23) Pentachlorophenol	4.570	266	26900	6.502	ug/ml	99
24) Phenanthrene	4.681	178	202248	4.681	ug/ml	100
25) Anthracene	4.708	178	207574	5.118	ug/ml	100
27) Fluoranthene	5.357	202	253989	5.470	ug/ml	95
28) Pyrene	5.486	202	267737	5.551	ug/ml	99
31) Benzo[a]anthracene	6.201	228	282858	5.317	ug/ml	100
32) Chrysene	6.227	228	262985	4.706	ug/ml	99
35) Benzo[b]fluoranthene	7.018	252	287055	4.972	ug/ml	100
36) Benzo[k]fluoranthene	7.041	252	277102	4.910	ug/ml	100
37) Benzo[a]pyrene	7.316	252	260412	5.538	ug/ml	98
38) Indeno[1,2,3-cd]pyrene	8.563	276	272652M6	6.258	ug/ml	
39) Dibenzo[a,h]anthracene	8.590	278	252042M6	5.038	ug/ml	
40) Benzo[g,h,i]perylene	8.897	276	240998M1	4.359	ug/ml	

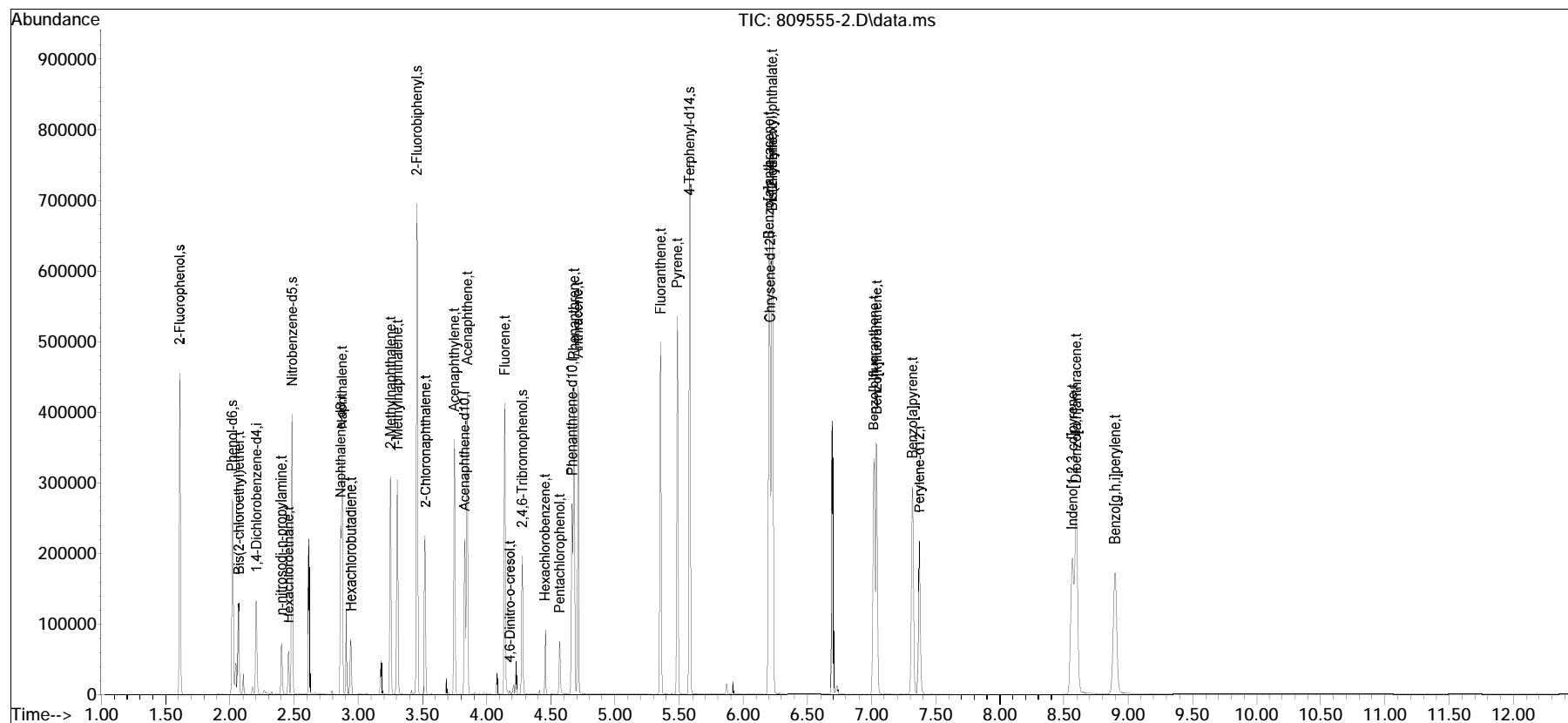
(#) = qualifier out of range (m) = manual integration (+) = signals summed

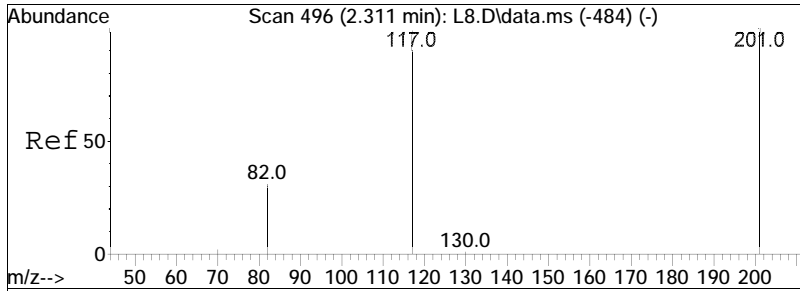
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 809555-2.D
 Acq On : 08 Aug 2023 02:23 pm
 Operator : SV120:jjw
 Sample : Wg1809555-2,32,,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 09 09:09:00 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

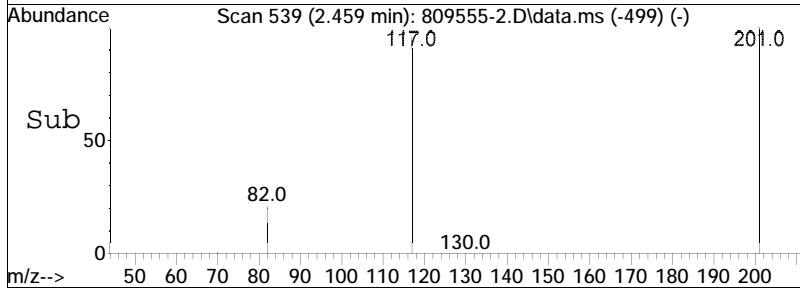
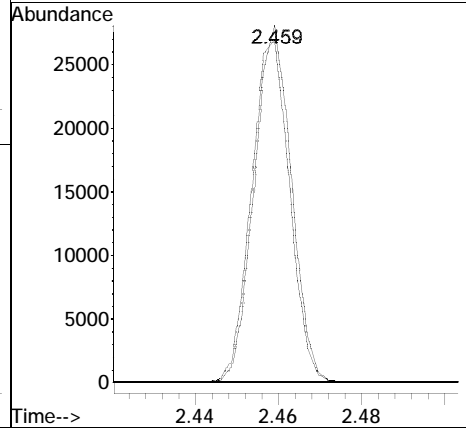
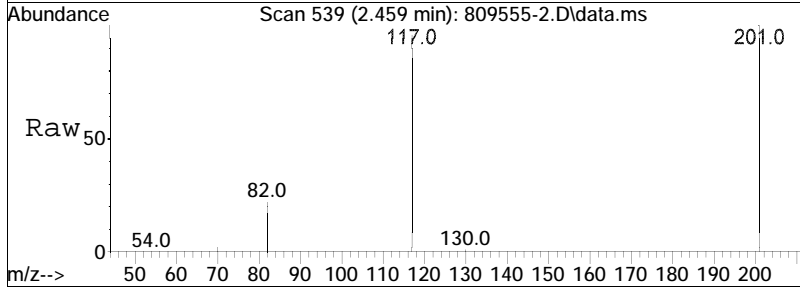
Sub List : DEFAULT - All compounds listedccv0808.D•

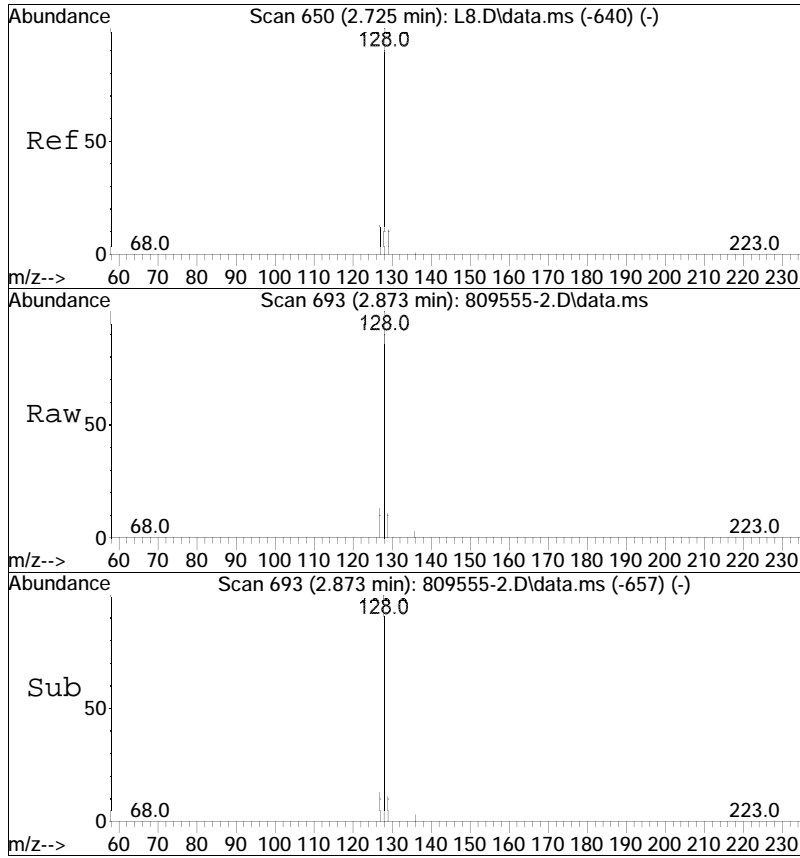




#4
 Hexachloroethane
 Concen: 3.94 ug/ml M3
 RT: 2.459 min Scan# 539
 Delta R.T. 0.023 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

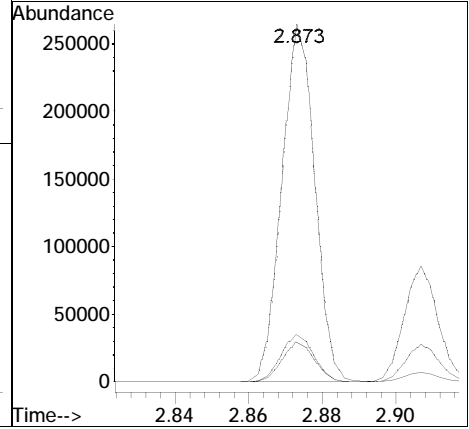
Tgt Ion: 117 Resp: 16988
 Ion Ratio Lower Upper
 117 100
 201 102.2 77.1 115.7

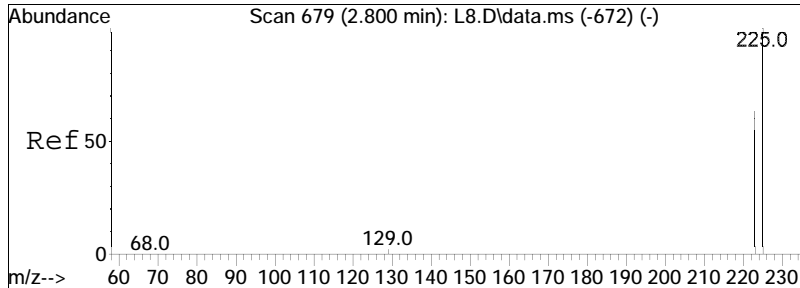




#9
 Naphthalene
 Concen: 4.75 ug/ml
 RT: 2.873 min Scan# 693
 Delta R.T. 0.021 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

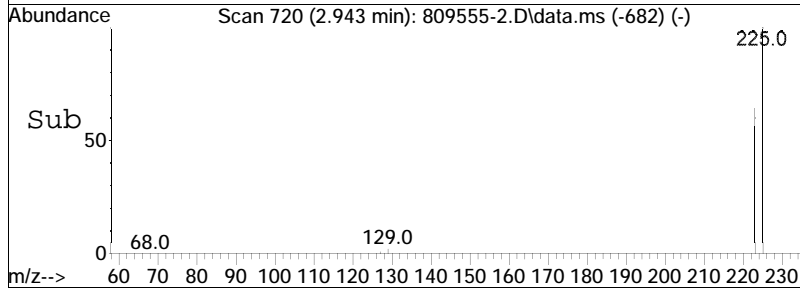
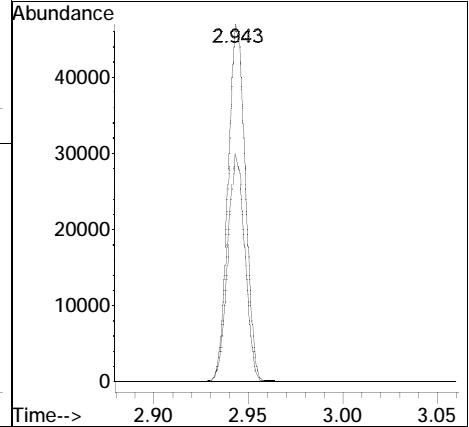
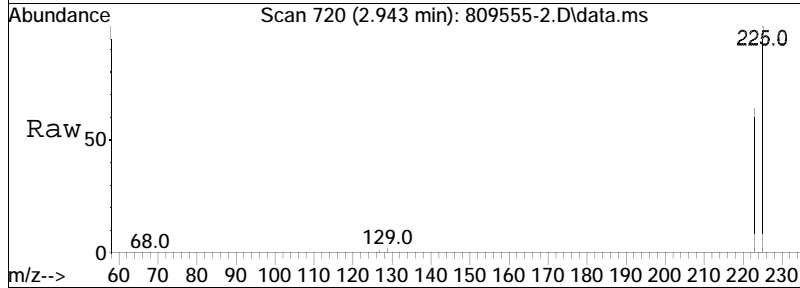
Tgt Ion	Resp	Lower	Upper
128	163363		
129	11.0	8.7	13.1
127	13.3	10.8	16.2

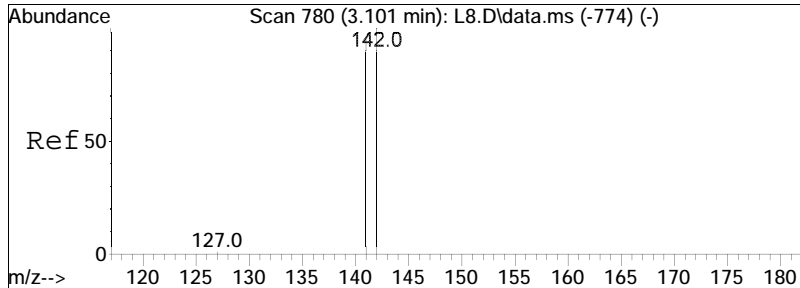




#10
 Hexachlorobutadiene
 Concen: 4.50 ug/ml
 RT: 2.943 min Scan# 720
 Delta R.T. 0.018 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

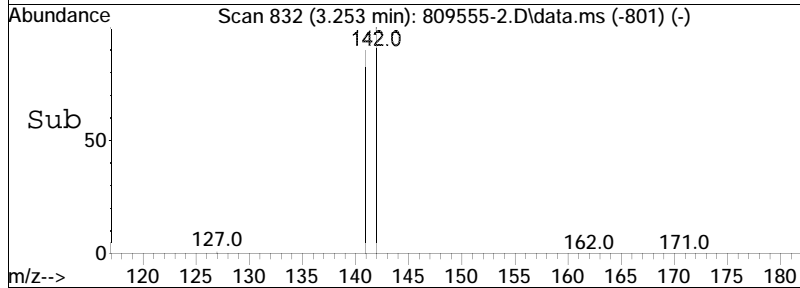
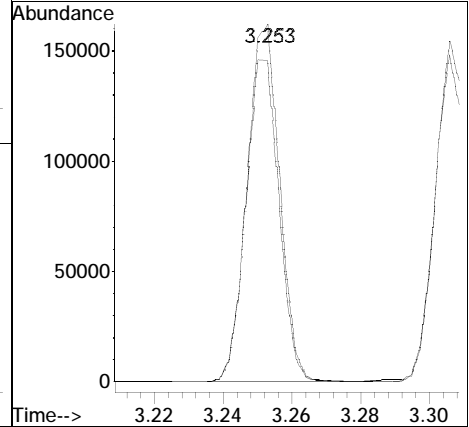
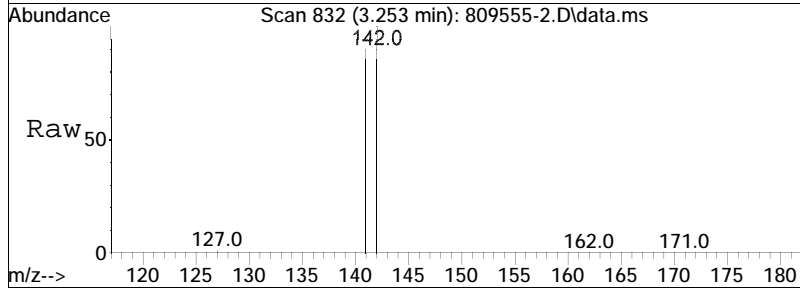
Tgt Ion	Resp	Lower	Upper
225	100		
223	63.2	50.4	75.6

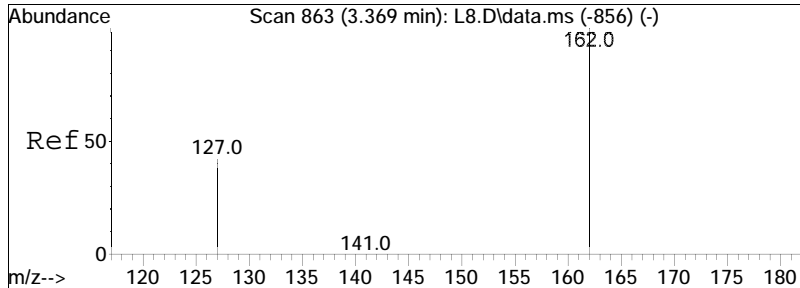




#11
 2-Methylnaphthalene
 Concen: 4.94 ug/ml
 RT: 3.253 min Scan# 832
 Delta R.T. 0.019 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

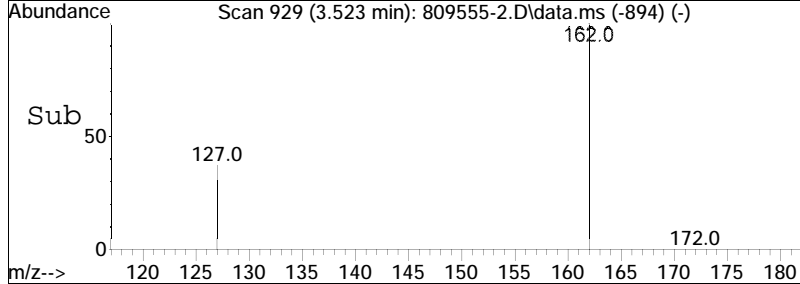
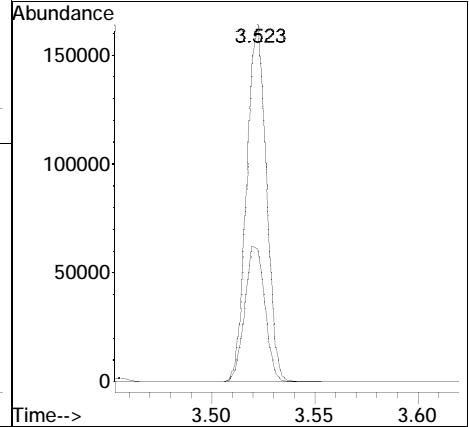
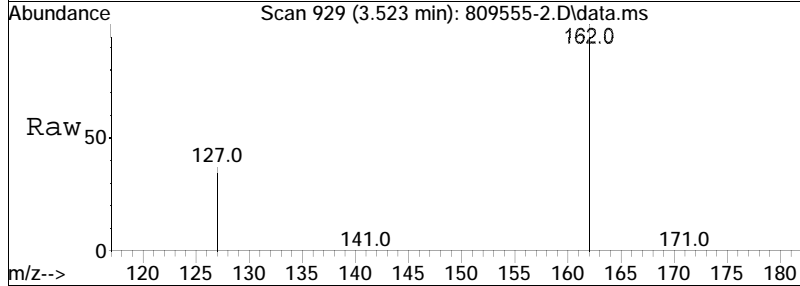
Tgt Ion	Resp	Lower	Upper
142	106683		
141	91.7	74.2	111.4

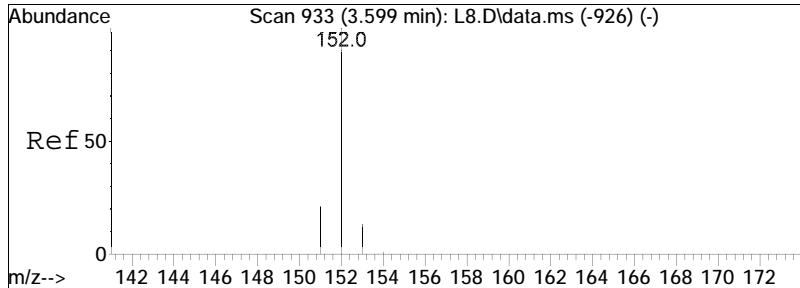




#14
 2-Chloronaphthalene
 Concen: 4.67 ug/ml
 RT: 3.523 min Scan# 929
 Delta R.T. 0.017 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

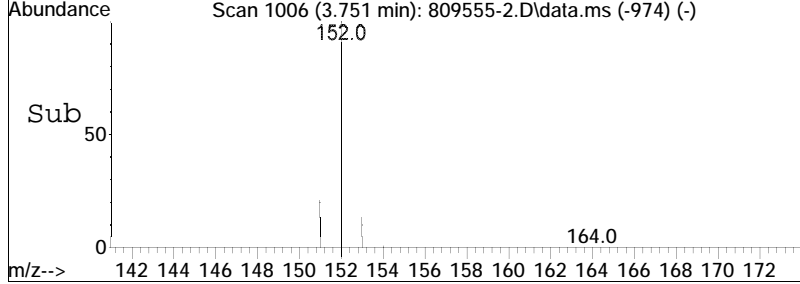
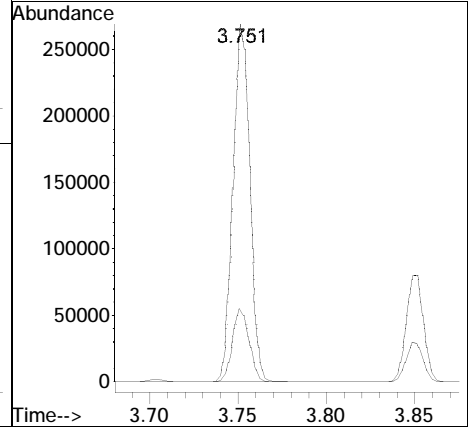
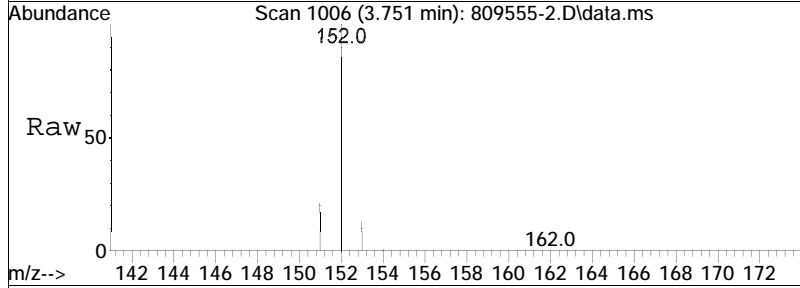
Tgt Ion	Resp	Lower	Upper
162	106702		
127	39.2	31.5	47.3

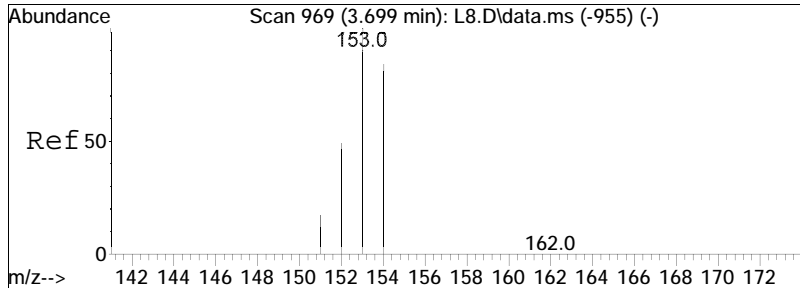




#15
 Acenaphthylene
 Concen: 5.39 ug/ml
 RT: 3.751 min Scan# 1006
 Delta R.T. 0.017 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

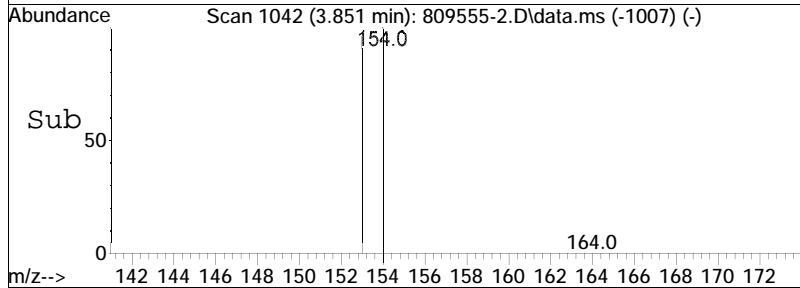
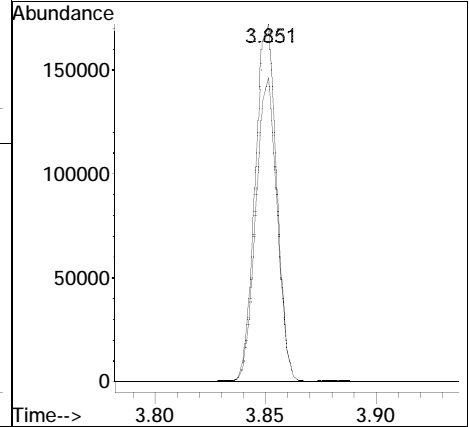
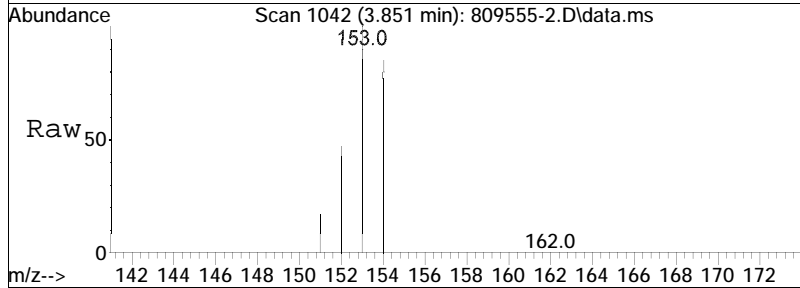
Tgt Ion	Resp	Lower	Upper
152	100		
151	20.4	16.3	24.5

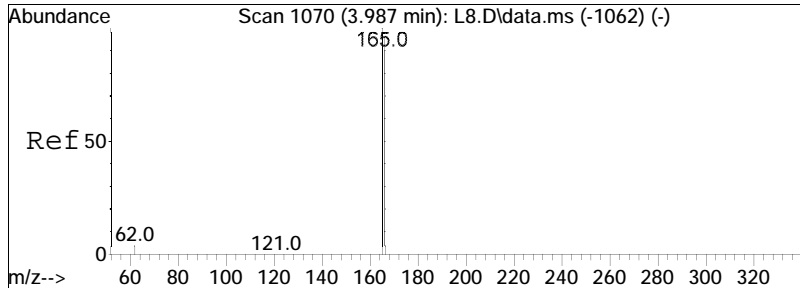




#17
 Acenaphthene
 Concen: 4.72 ug/ml
 RT: 3.851 min Scan# 1042
 Delta R.T. 0.017 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

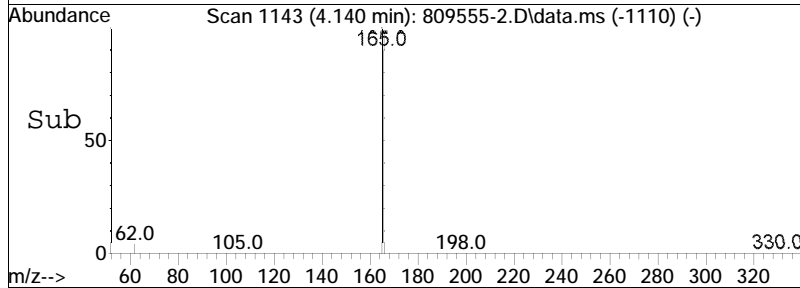
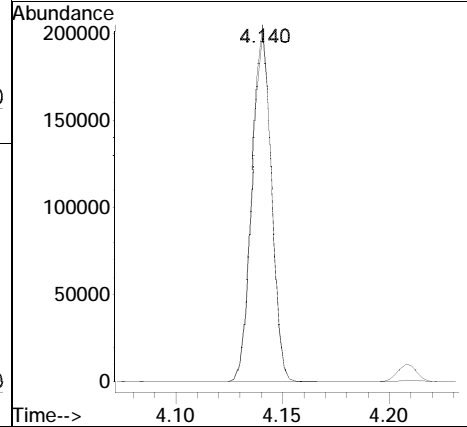
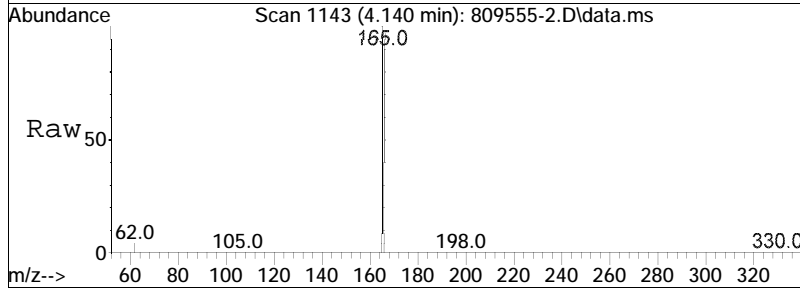
Tgt Ion	Resp	Lower	Upper
153	100		
154	84.4	70.8	106.2

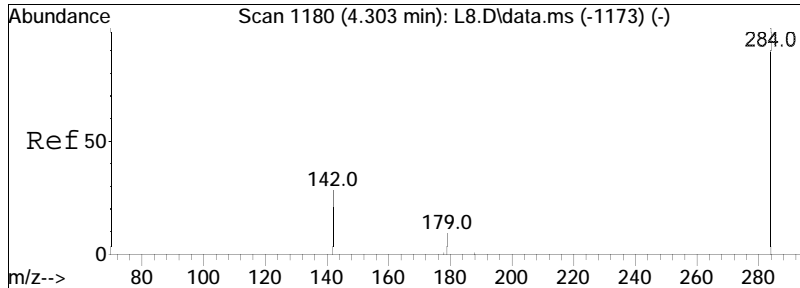




#18
 Fluorene
 Concen: 4.94 ug/ml
 RT: 4.140 min Scan# 1143
 Delta R.T. 0.014 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

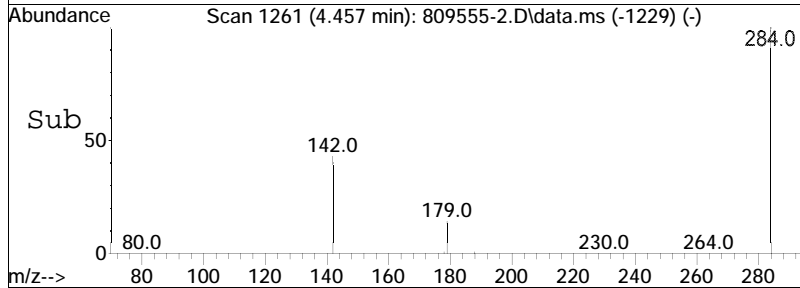
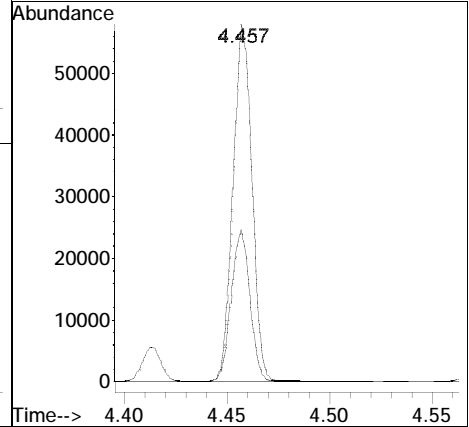
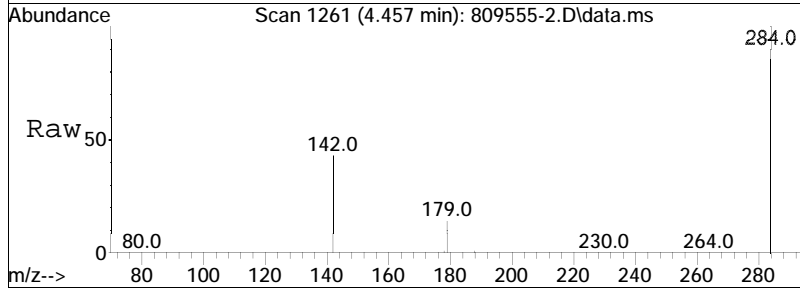
Tgt Ion	Resp	Lower	Upper
166	125803		
165	102.7	82.2	123.2

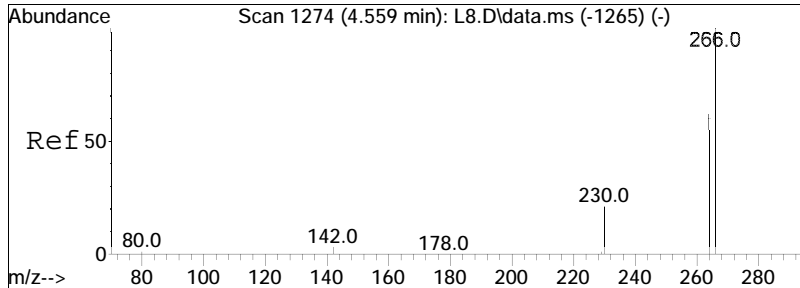




#22
 Hexachlorobenzene
 Concen: 3.88 ug/ml
 RT: 4.457 min Scan# 1261
 Delta R.T. 0.013 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

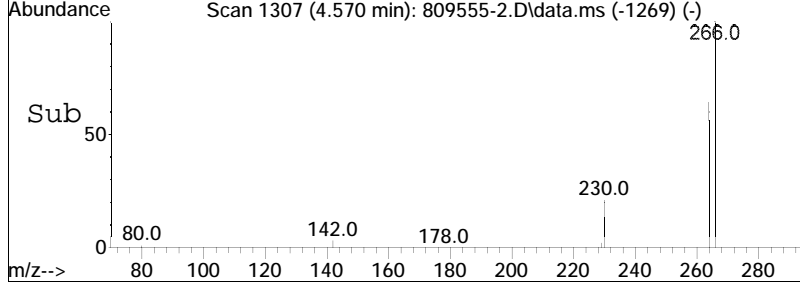
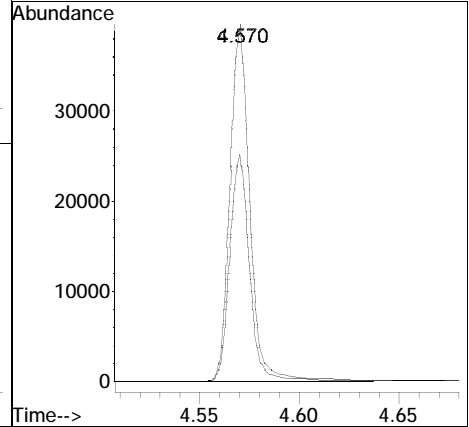
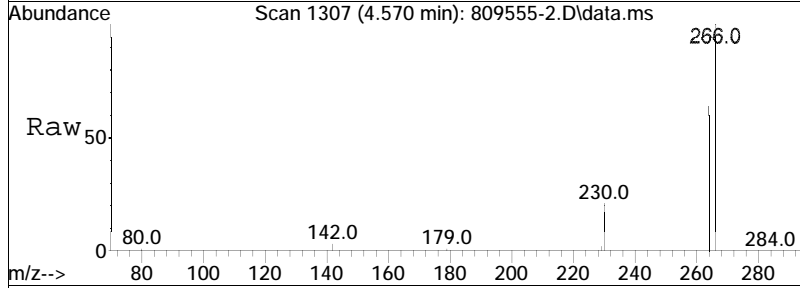
Tgt Ion: 284 Resp: 36409
 Ion Ratio Lower Upper
 284 100
 142 42.2 29.2 43.8

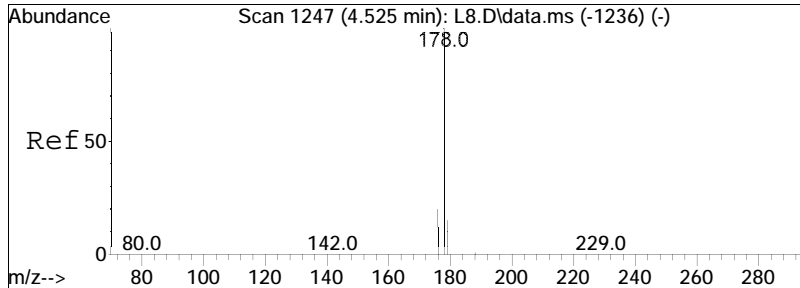




#23
 Pentachlorophenol
 Concen: 6.50 ug/ml
 RT: 4.570 min Scan# 1307
 Delta R.T. 0.013 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

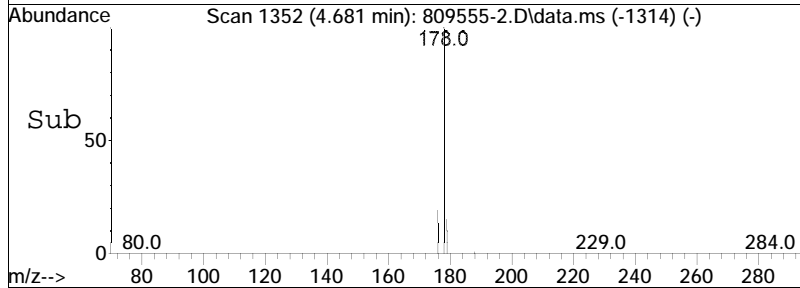
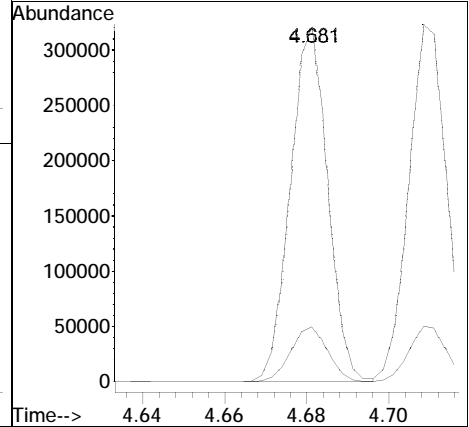
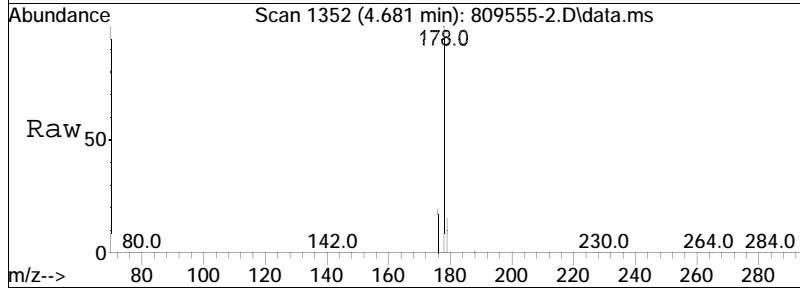
Tgt Ion: 266 Resp: 26900
 Ion Ratio Lower Upper
 266 100
 264 63.8 50.6 76.0

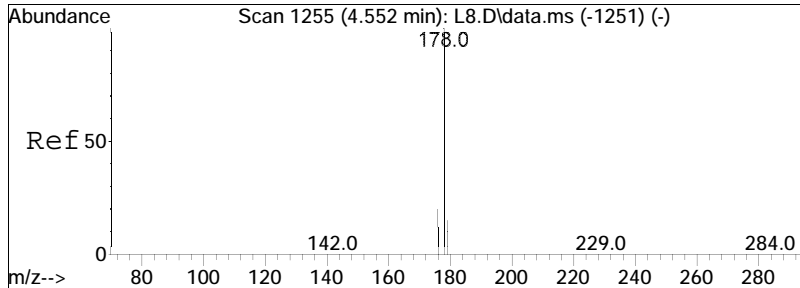




#24
 Phenanthrene
 Concen: 4.68 ug/ml
 RT: 4.681 min Scan# 1352
 Delta R.T. 0.013 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

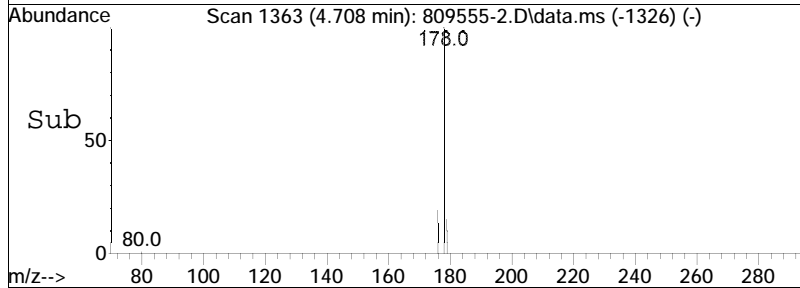
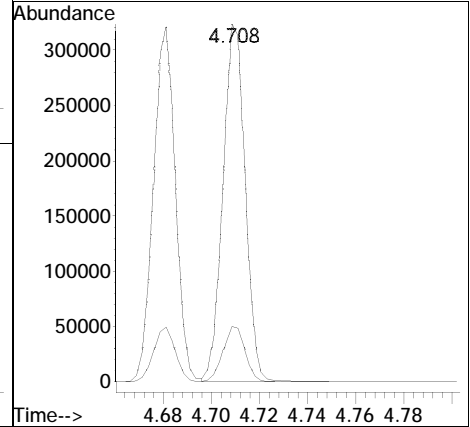
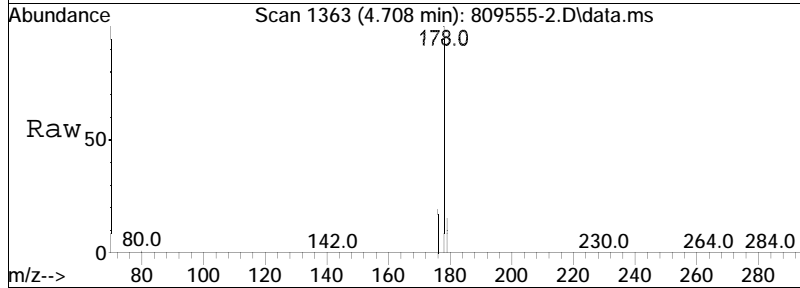
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.3	18.5

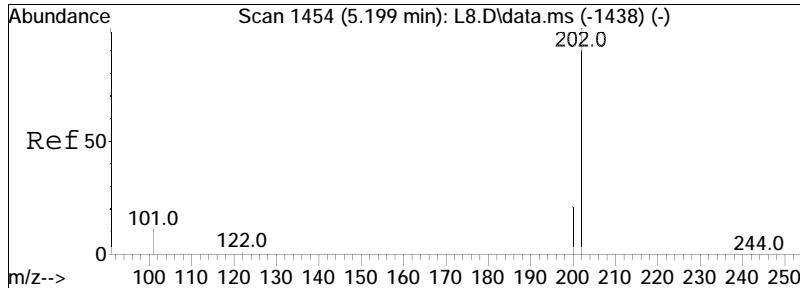




#25
 Anthracene
 Concen: 5.12 ug/ml
 RT: 4.708 min Scan# 1363
 Delta R.T. 0.010 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

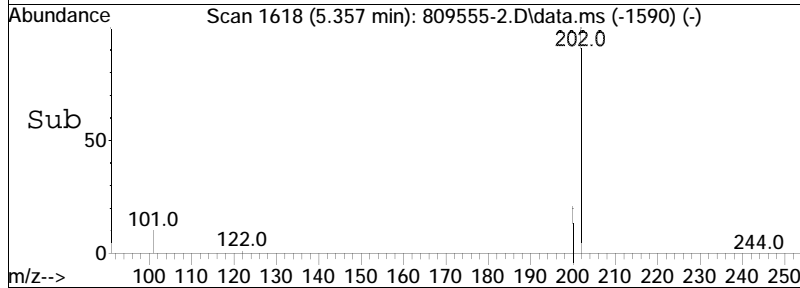
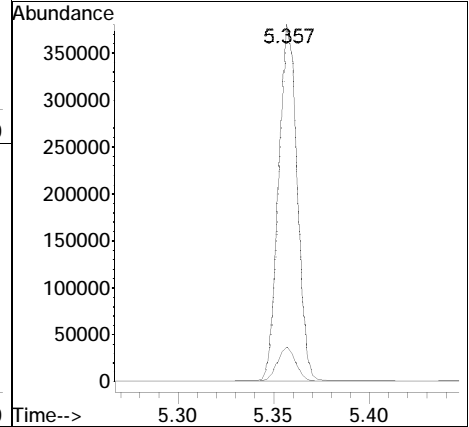
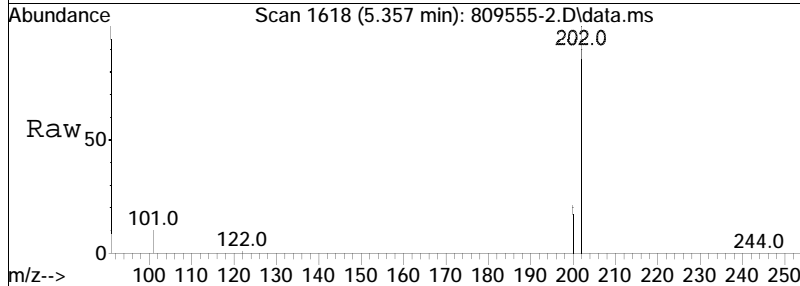
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.3	12.2	18.2

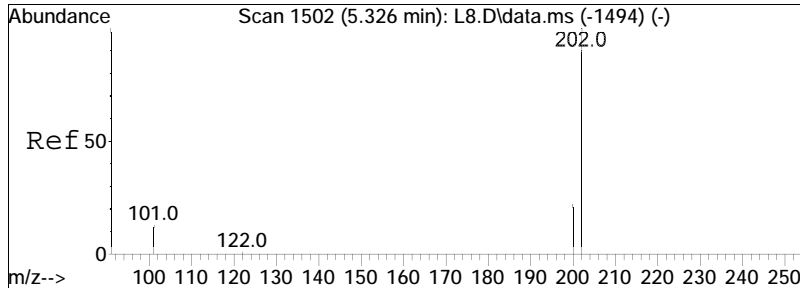




#27
 Fluoranthene
 Concen: 5.47 ug/ml
 RT: 5.357 min Scan# 1618
 Delta R.T. -0.007 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

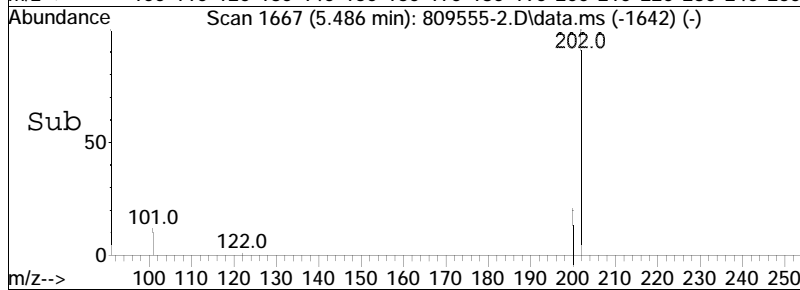
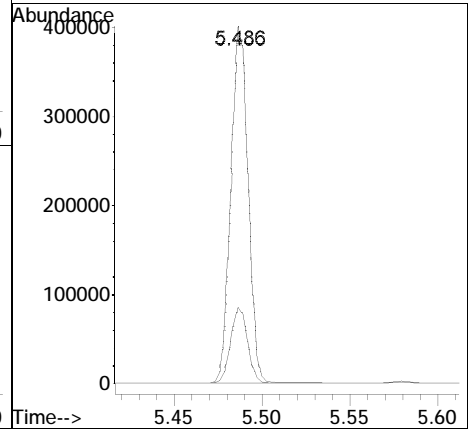
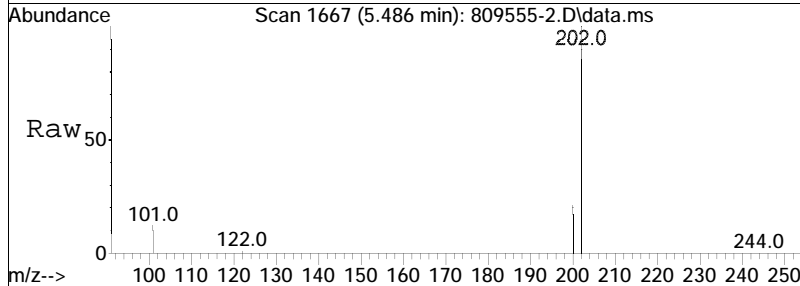
Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.6	9.3	13.9

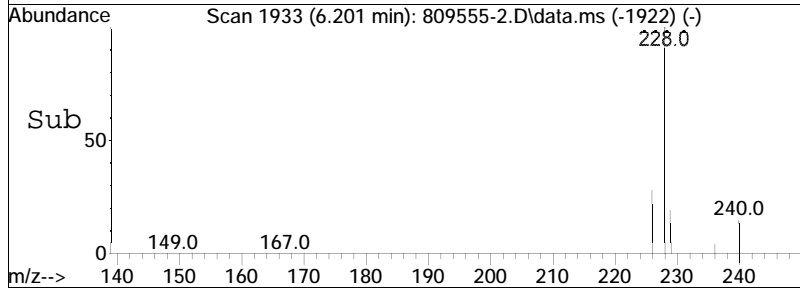
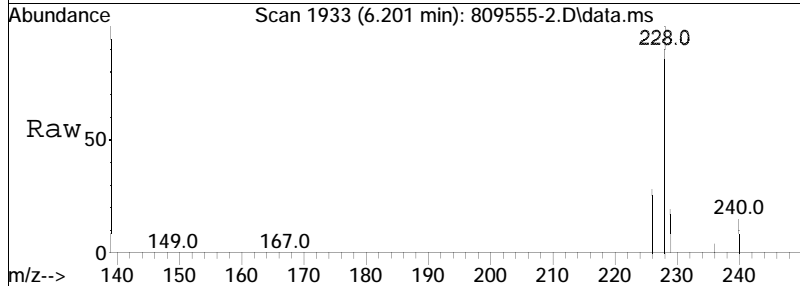
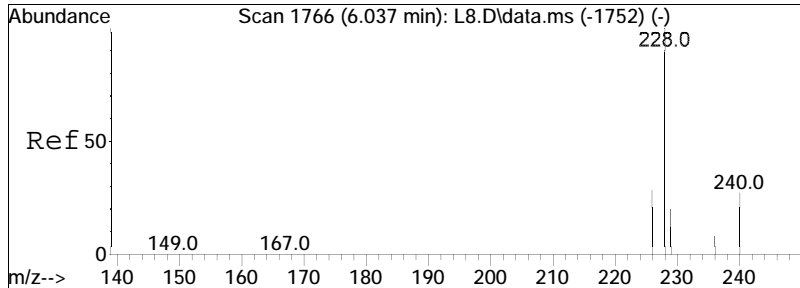




#28
 Pyrene
 Concen: 5.55 ug/ml
 RT: 5.486 min Scan# 1667
 Delta R.T. -0.015 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

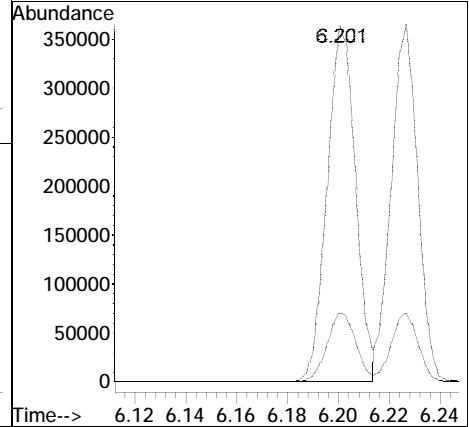
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.4	26.2

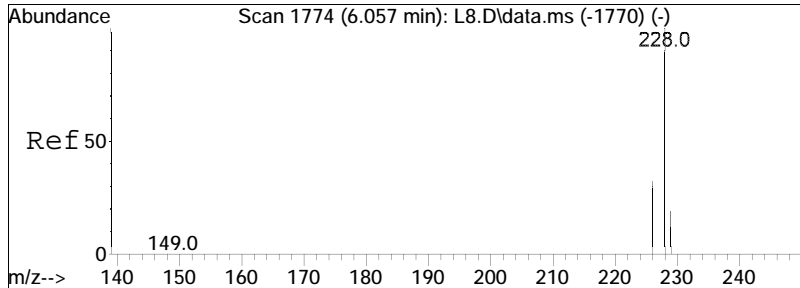




#31
 Benzo[a]anthracene
 Concen: 5.32 ug/ml
 RT: 6.201 min Scan# 1933
 Delta R.T. -0.051 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

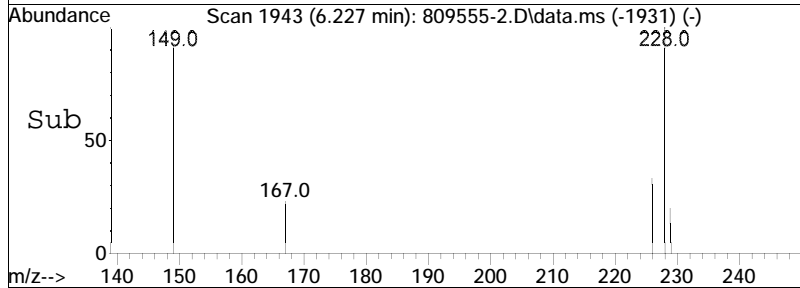
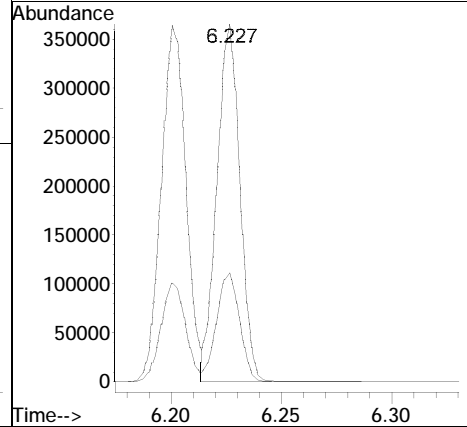
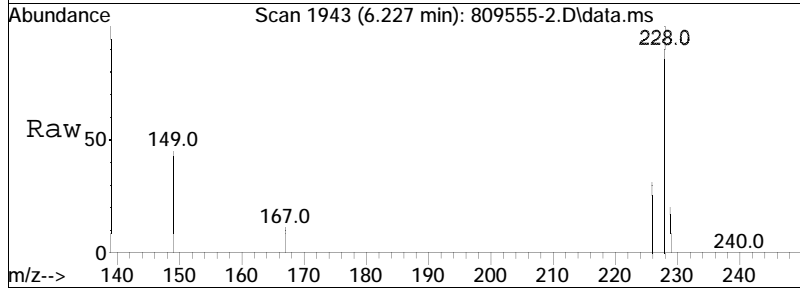
Tgt Ion	Resp	Lower	Upper
228	100		
229	19.5	15.6	23.4

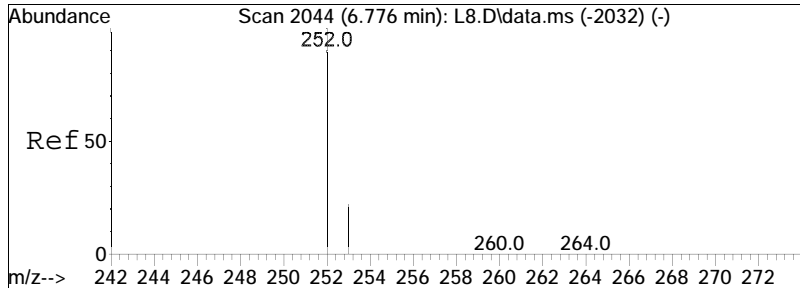




#32
 Chrysene
 Concen: 4.71 ug/ml
 RT: 6.227 min Scan# 1943
 Delta R.T. -0.049 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

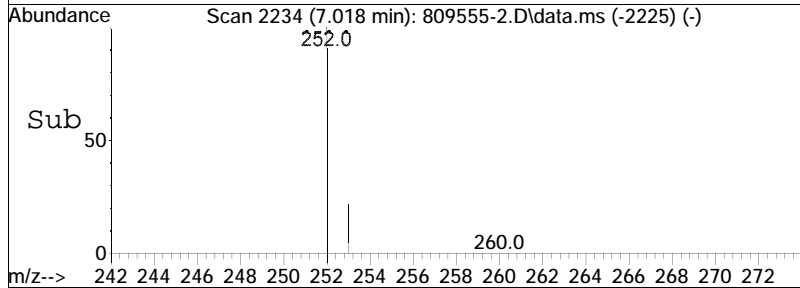
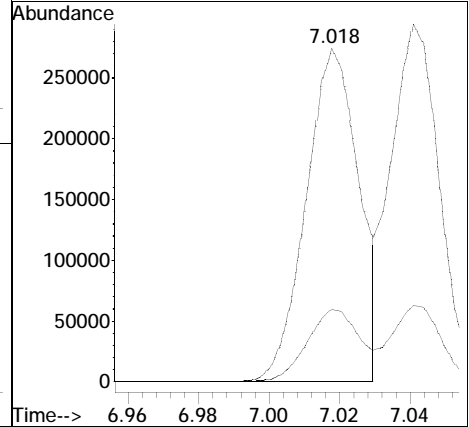
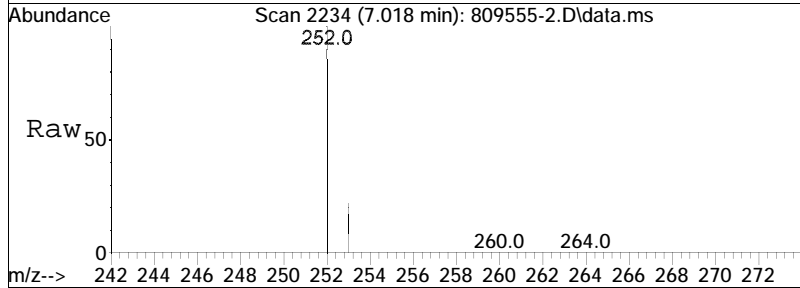
Tgt Ion	Resp	Lower	Upper
228	100		
226	30.6	24.9	37.3

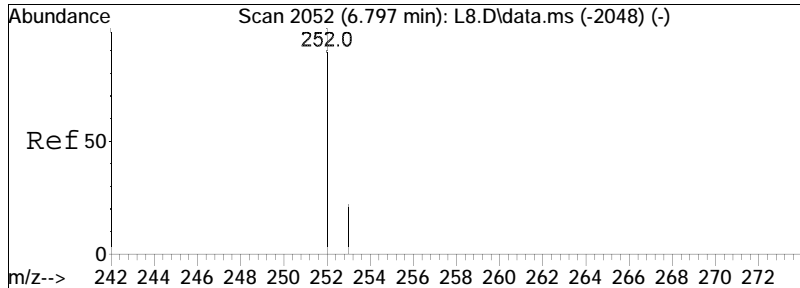




#35
 Benzo[b]fluoranthene
 Concen: 4.97 ug/ml
 RT: 7.018 min Scan# 2234
 Delta R.T. -0.054 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

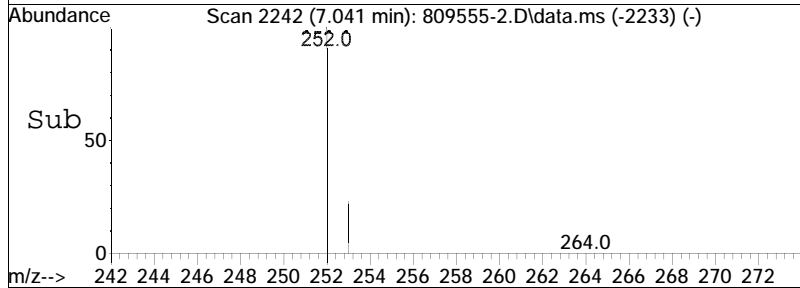
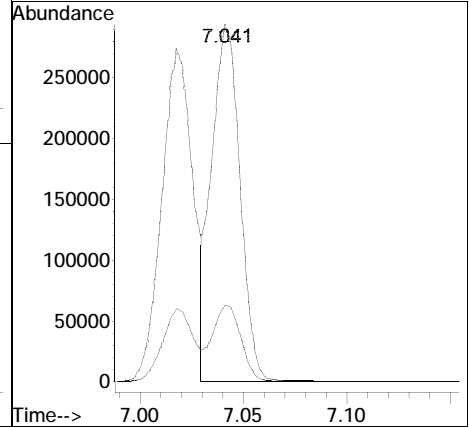
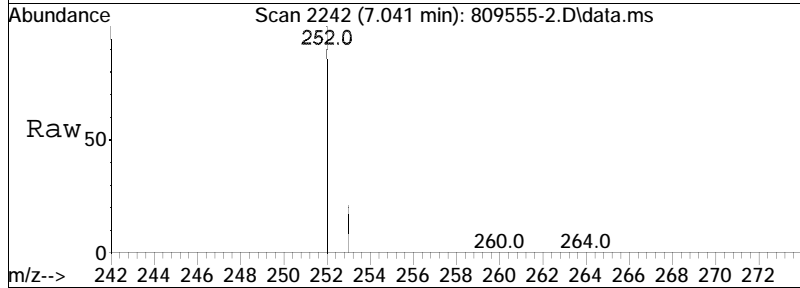
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.5	17.2	25.8

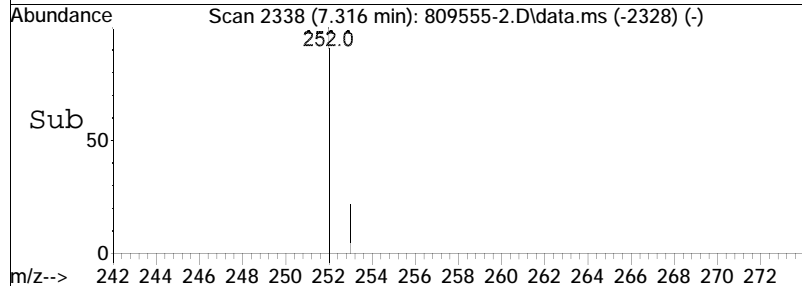
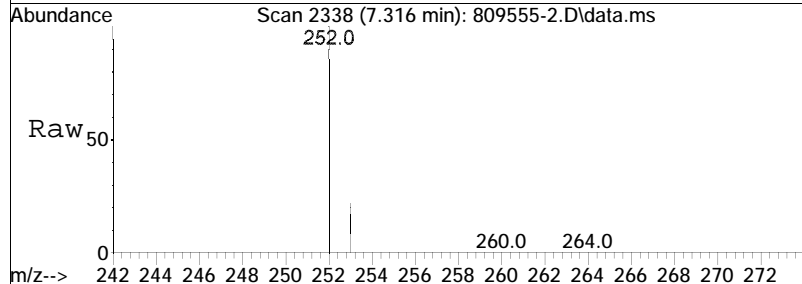
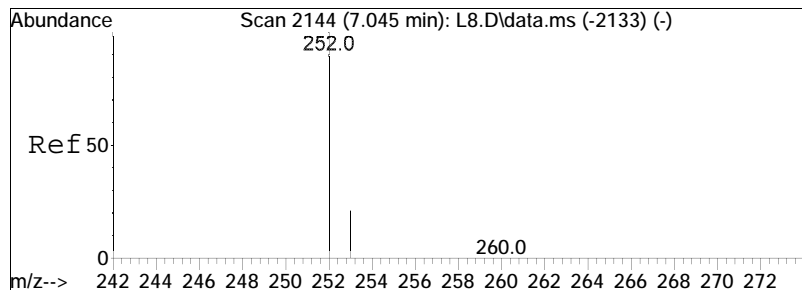




#36
 Benzo[k]fluoranthene
 Concen: 4.91 ug/ml
 RT: 7.041 min Scan# 2242
 Delta R.T. -0.054 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

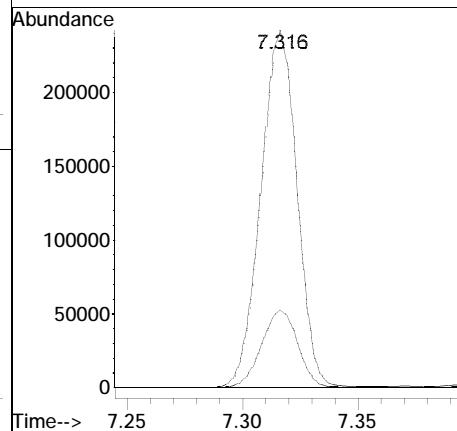
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.8	17.4	26.0

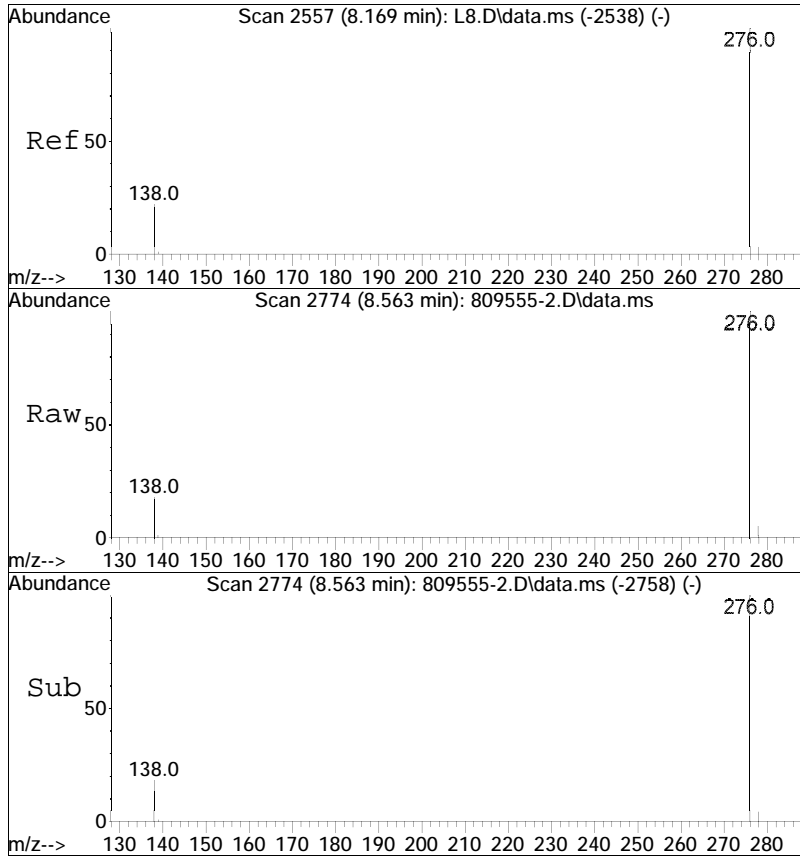




#37
 Benzo[a]pyrene
 Concen: 5.54 ug/ml
 RT: 7.316 min Scan# 2338
 Delta R.T. -0.051 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

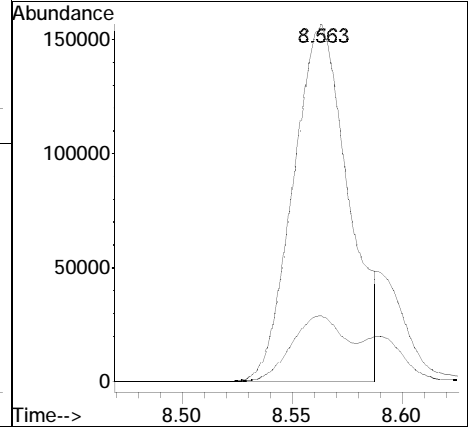
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.8	16.8	25.2

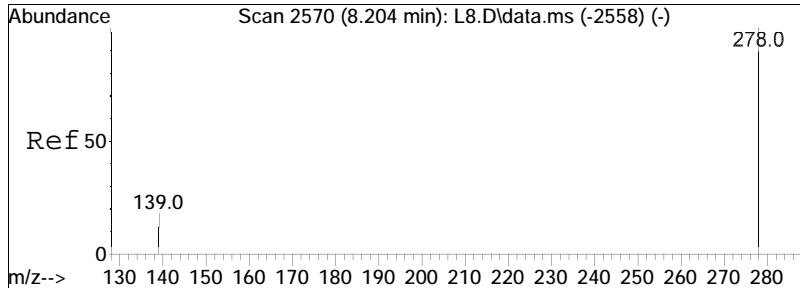




#38
 Indeno[1,2,3-cd]pyrene
 Concen: 6.26 ug/ml M6
 RT: 8.563 min Scan# 2774
 Delta R.T. -0.037 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

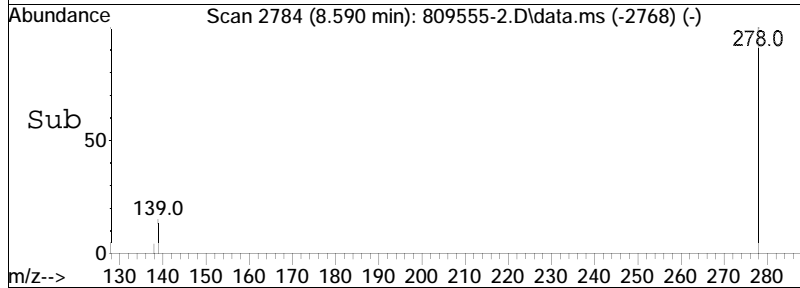
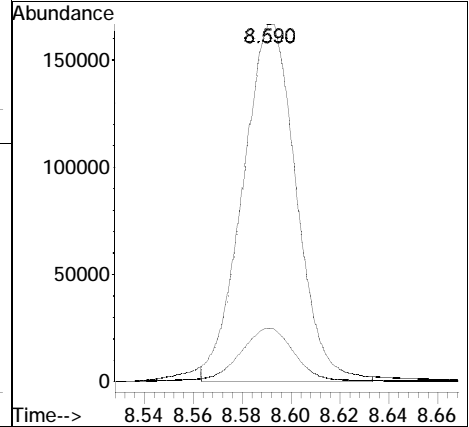
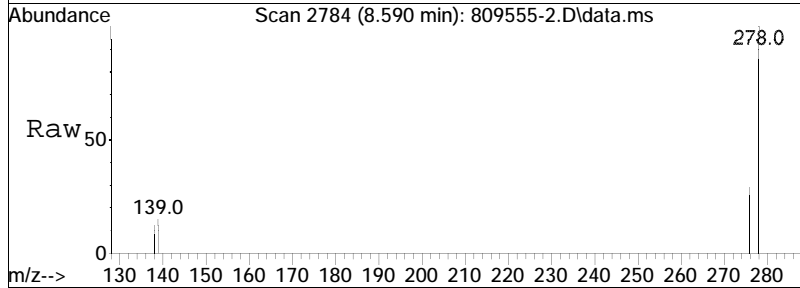
Tgt Ion	Resp	Lower	Upper
276	100		
138	18.0	17.9	26.9

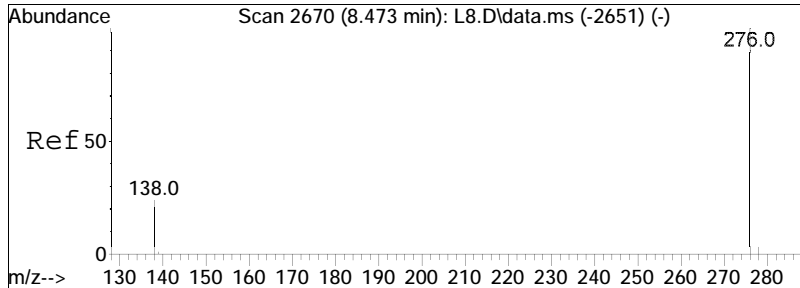




#39
 Dibenzo[a,h]anthracene
 Concen: 5.04 ug/ml M6
 RT: 8.590 min Scan# 2784
 Delta R.T. -0.037 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

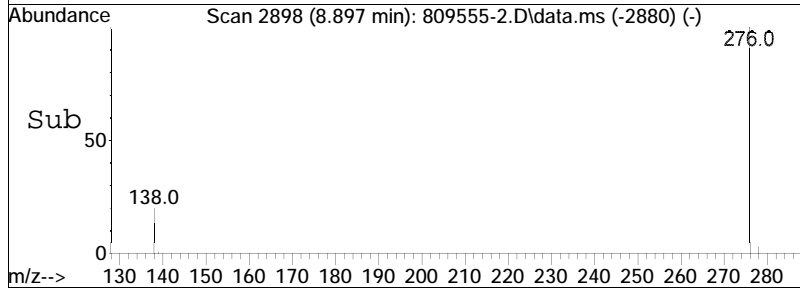
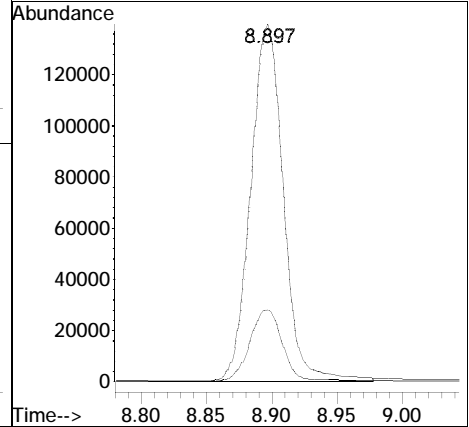
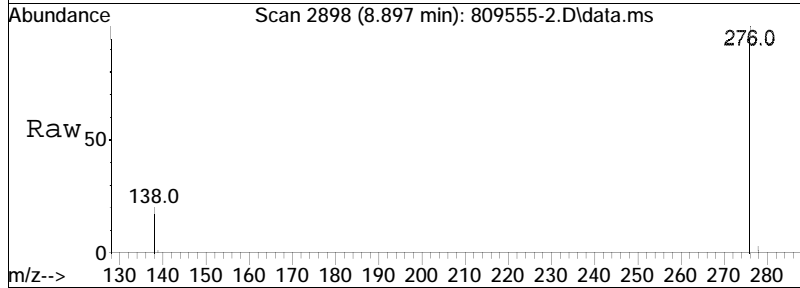
Tgt Ion	Resp	Lower	Upper
278	100		
139	15.2	15.9	23.9#





#40
 Benzo[g,h,i]perylene
 Concen: 4.36 ug/ml M1
 RT: 8.897 min Scan# 2898
 Delta R.T. -0.031 min
 Lab File: 809555-2.D
 Acq: 08 Aug 2023 02:23 pm

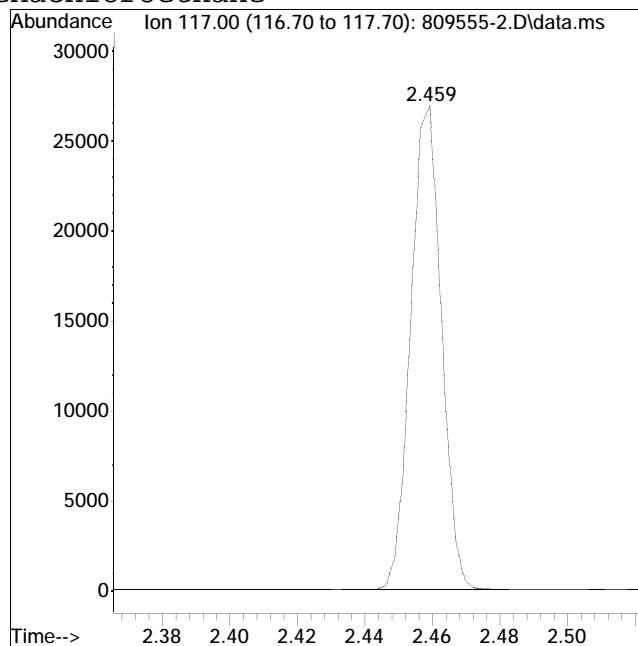
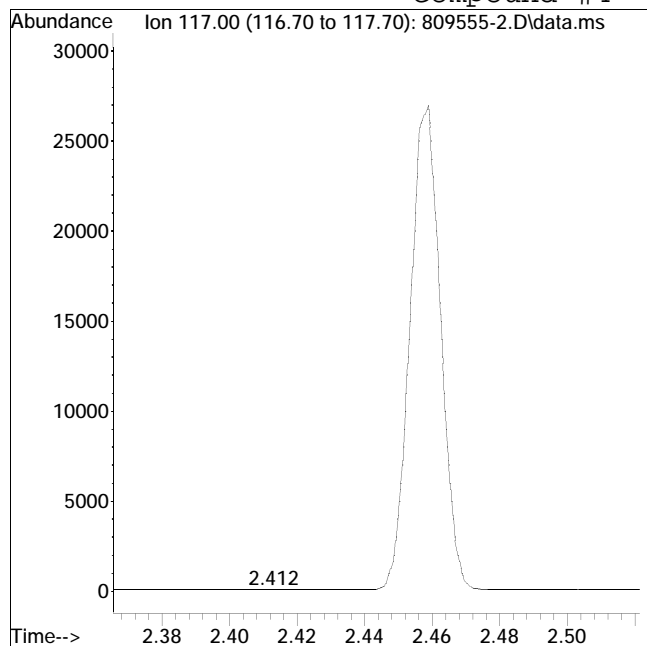
Tgt Ion	Resp	Lower	Upper
276	100		
138	19.7	20.1	30.1#



Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 809555-2.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 2:23 pm Instrument : SV120
Sample : Wg1809555-2,32,,RV,TIC Quant Date : 8/8/2023 2:36 pm

Compound #4: Hexachloroethane



Original Peak Response = 4

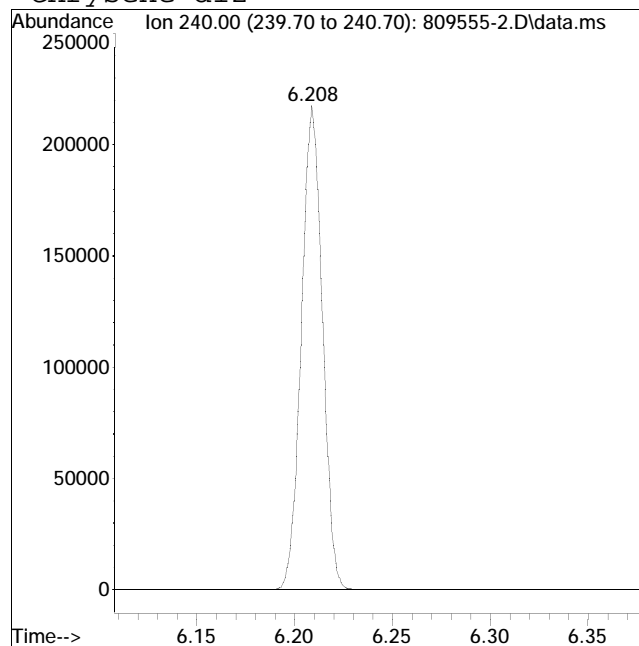
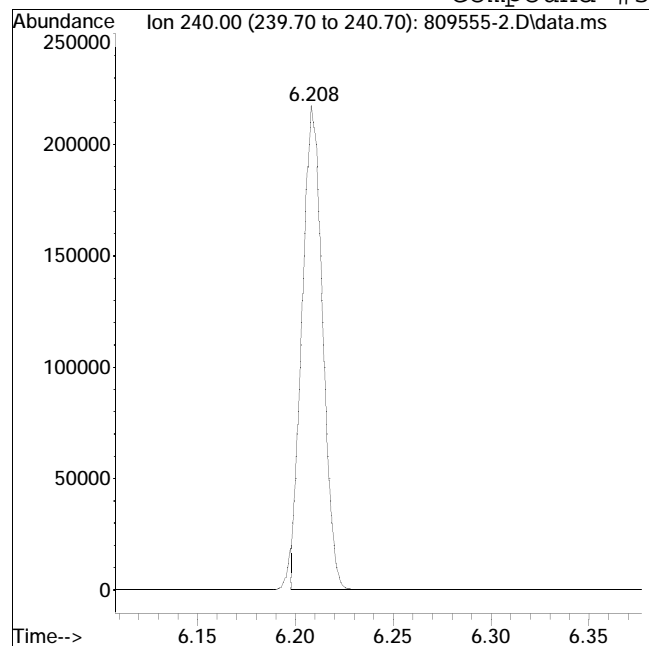
Manual Peak Response = 16988 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 809555-2.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 2:23 pm Instrument : SV120
Sample : Wg1809555-2,32,,RV,TIC Quant Date : 8/8/2023 2:36 pm

Compound #30: Chrysene-d12



Original Peak Response = 158238

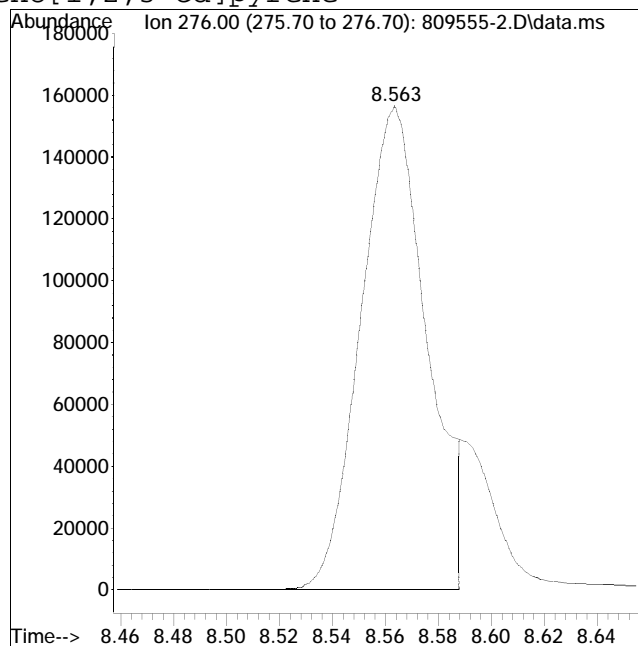
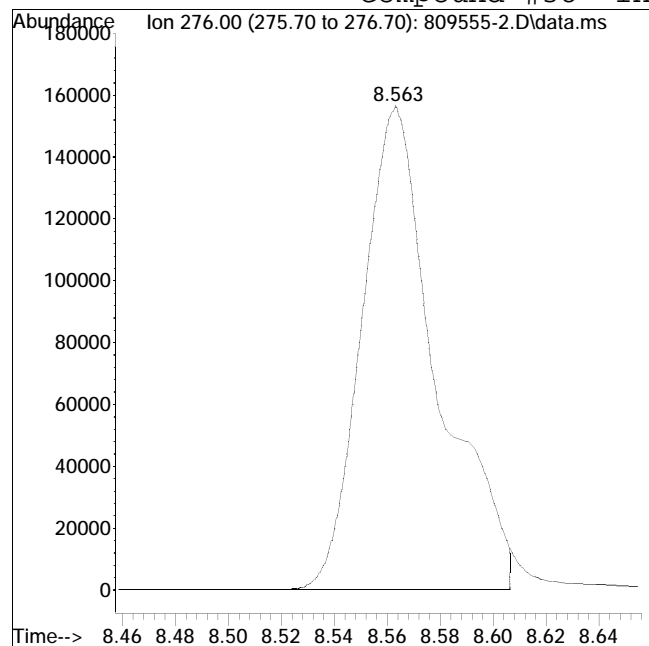
Manual Peak Response = 163400 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 809555-2.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 2:23 pm Instrument : SV120
Sample : Wg1809555-2,32,,RV,TIC Quant Date : 8/8/2023 2:36 pm

Compound #38: Indeno[1,2,3-cd]pyrene



Original Peak Response = 308952

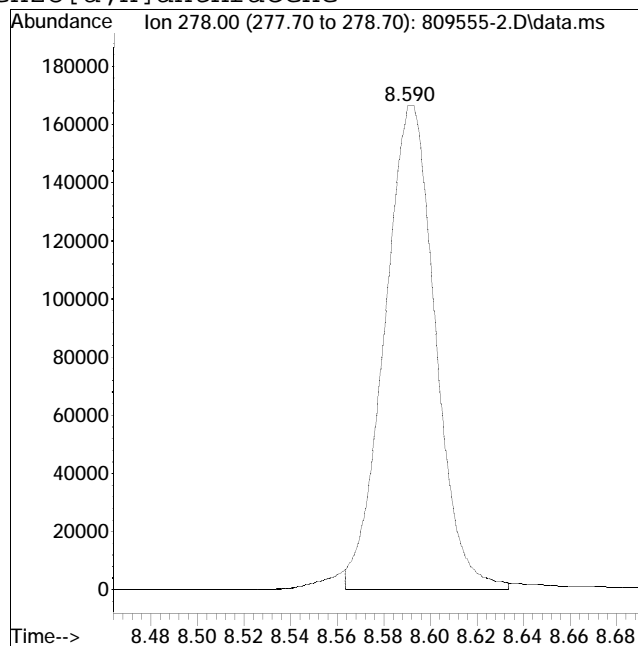
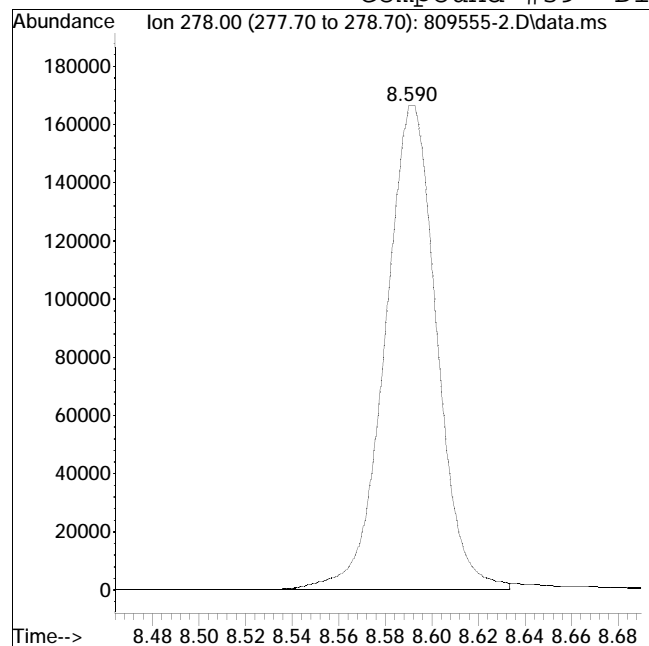
Manual Peak Response = 272652 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 809555-2.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 2:23 pm Instrument : SV120
Sample : Wg1809555-2,32,,RV,TIC Quant Date : 8/8/2023 2:36 pm

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 256445

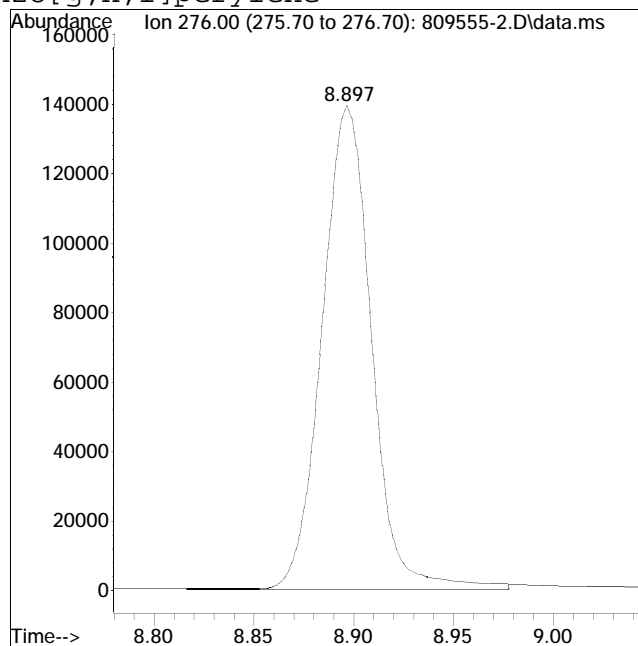
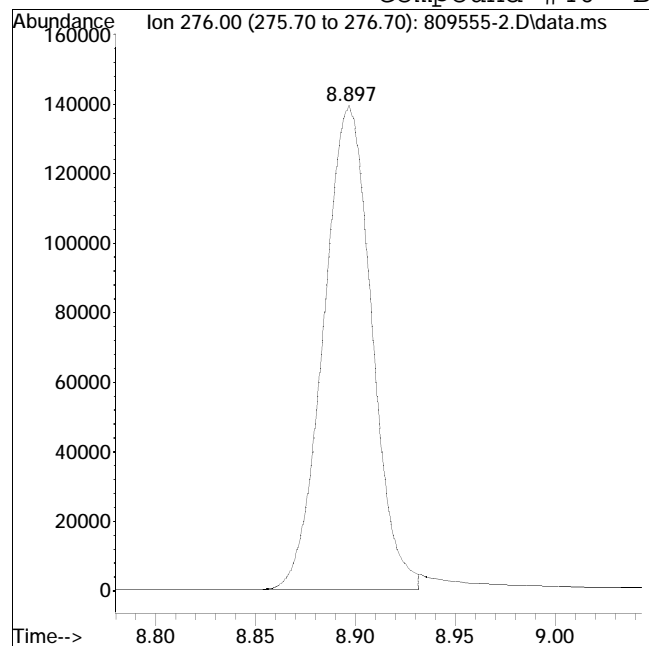
Manual Peak Response = 252042 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 809555-2.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 2:23 pm Instrument : SV120
Sample : Wg1809555-2,32,,RV,TIC Quant Date : 8/8/2023 2:36 pm

Compound #40: Benzo[g,h,i]perylene



Original Peak Response = 233373

Manual Peak Response = 240998 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 809555-3.D
 Acq On : 08 Aug 2023 02:40 pm
 Operator : SV120:jjw
 Sample : Wg1809555-3,32,,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 09 09:10:12 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230808ST\ccv0808.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.204	152	36615	4.000	ug/ml	0.03
Standard Area 1 = 25900			Recovery =	141.37%		
8) Naphthalene-d8	2.863	136	139118	4.000	ug/ml	0.02
Standard Area 1 = 96934			Recovery =	143.52%		
16) Acenaphthene-d10	3.832	164	75675	4.000	ug/ml	0.01
Standard Area 1 = 51703			Recovery =	146.36%		
20) Phenanthrene-d10	4.667	188	169020	4.000	ug/ml	0.01
Standard Area 1 = 107414			Recovery =	157.35%		
30) Chrysene-d12	6.208	240	169713M1	4.000	ug/ml	-0.05
Standard Area 1 = 96547			Recovery =	175.78%		
34) Perylene-d12	7.371	264	195782	4.000	ug/ml	-0.05
Standard Area 1 = 119148			Recovery =	164.32%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.610	112	190871	20.112	ug/ml	0.03
Spiked Amount 50.000	Range 15 - 110		Recovery =	40.22%		
3) Phenol-d6	2.023	99	167067	14.250	ug/ml	0.03
Spiked Amount 50.000	Range 15 - 110		Recovery =	28.50%		
7) Nitrobenzene-d5	2.485	82	160730	17.377	ug/ml	0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	69.51%		
13) 2-Fluorobiphenyl	3.456	172	385147	14.007	ug/ml	0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	56.03%		
19) 2,4,6-Tribromophenol	4.278	330	64114	17.170	ug/ml	0.01
Spiked Amount 50.000	Range 15 - 110		Recovery =	34.34%		
26) O-Terphenyl-MS	0.000	230	0d	0.000	ug/ml	
Spiked Amount 20.000	Range 40 - 140		Recovery =	0.00%#		
29) 4-Terphenyl-d14	5.579	244	547940	15.802	ug/ml	-0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	63.21%		
Target Compounds						
4) Hexachloroethane	2.459	117	18987	4.297	ug/ml	94
9) Naphthalene	2.873	128	189626	5.294	ug/ml	100
10) Hexachlorobutadiene	2.943	225	33791	5.035	ug/ml	100
11) 2-Methylnaphthalene	3.253	142	126200	5.610	ug/ml	99
14) 2-Chloronaphthalene	3.523	162	127226	5.348	ug/ml	99
15) Acenaphthylene	3.751	152	213025	6.221	ug/ml	100
17) Acenaphthene	3.851	153	137333	5.323	ug/ml	96
18) Fluorene	4.140	166	152468	5.614	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 809555-3.D
 Acq On : 08 Aug 2023 02:40 pm
 Operator : SV120:jjw
 Sample : Wg1809555-3,32,,RV,TIC
 Misc : Wg1813153,wg1809555,ical19770
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 09 09:10:12 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230808ST\ccv0808.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) Hexachlorobenzene	4.457	284	44245	4.382	ug/ml	91
23) Pentachlorophenol	4.570	266	32951	7.368	ug/ml	99
24) Phenanthrene	4.681	178	246970	5.316	ug/ml	100
25) Anthracene	4.711	178	251288	5.762	ug/ml	100
27) Fluoranthene	5.357	202	305887	6.126	ug/ml	95
28) Pyrene	5.486	202	319389	6.159	ug/ml	99
31) Benzo[a]anthracene	6.201	228	331526	6.000	ug/ml	100
32) Chrysene	6.227	228	306774	5.285	ug/ml	99
35) Benzo[b]fluoranthene	7.018	252	334486	5.625	ug/ml	100
36) Benzo[k]fluoranthene	7.041	252	317514	5.462	ug/ml	100
37) Benzo[a]pyrene	7.316	252	299442	6.182	ug/ml	98
38) Indeno[1,2,3-cd]pyrene	8.563	276	304409M6	6.783	ug/ml	
39) Dibenzo[a,h]anthracene	8.590	278	289745M6	5.623	ug/ml	
40) Benzo[g,h,i]perylene	8.897	276	277834M1	4.879	ug/ml	

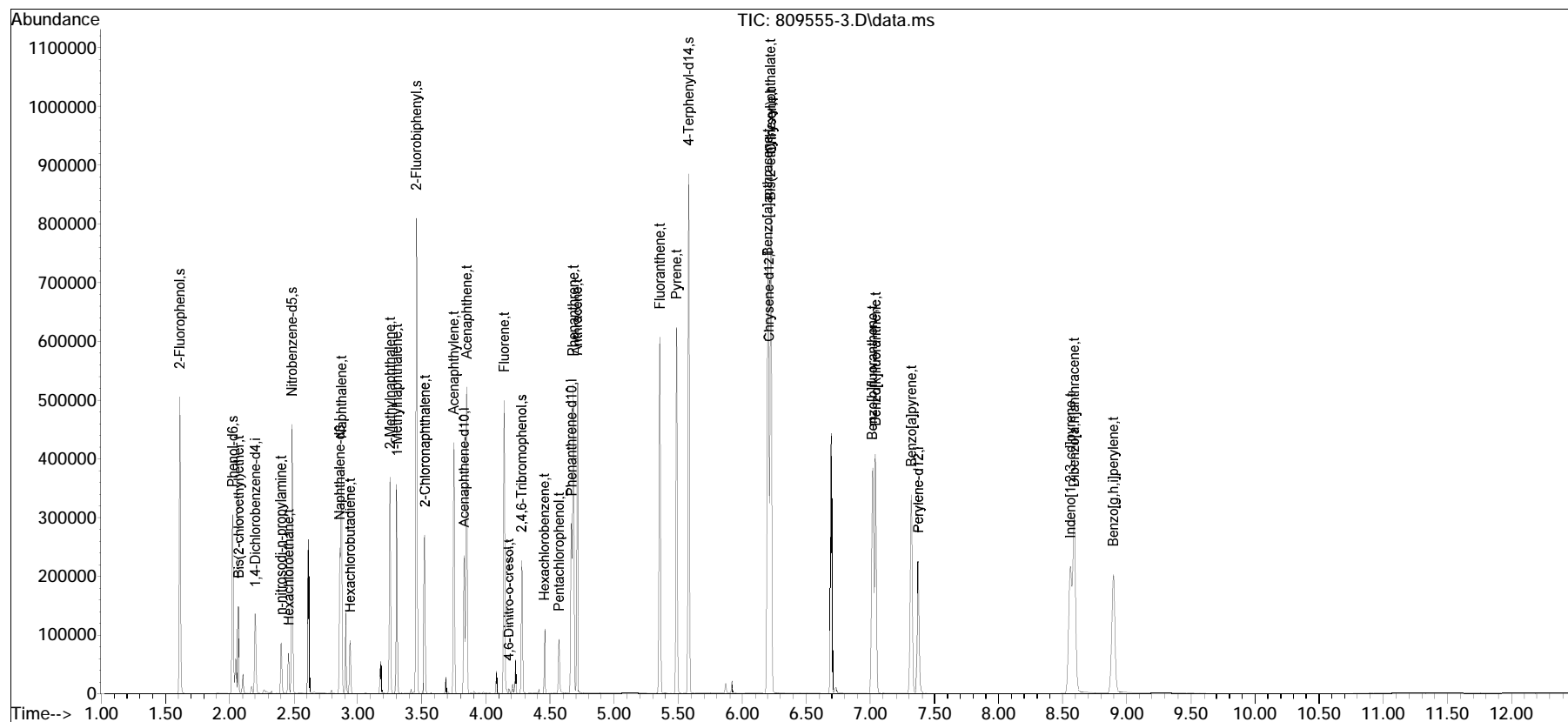
(#) = qualifier out of range (m) = manual integration (+) = signals summed

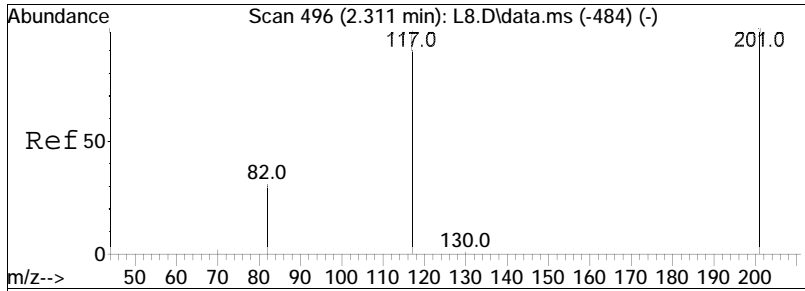
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 809555-3.D
 Acq On : 08 Aug 2023 02:40 pm
 Operator : SV120:jjw
 Sample : Wg1809555-3,32,,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 09 09:10:12 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

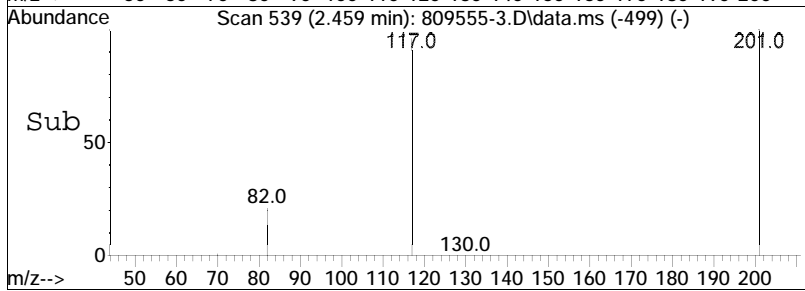
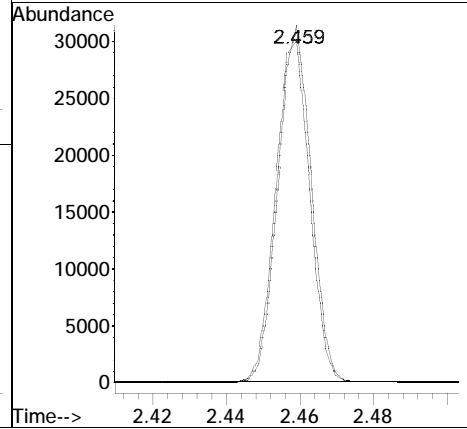
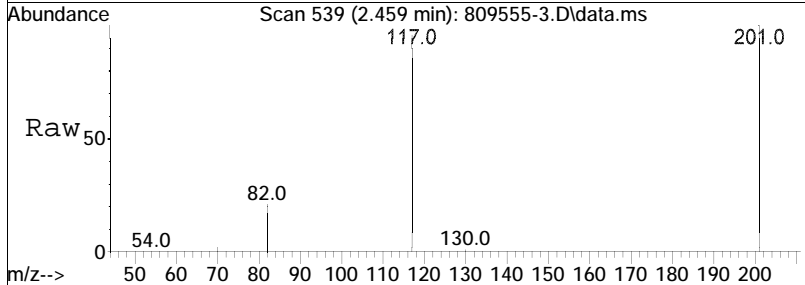
Sub List : DEFAULT - All compounds listedccv0808.D•

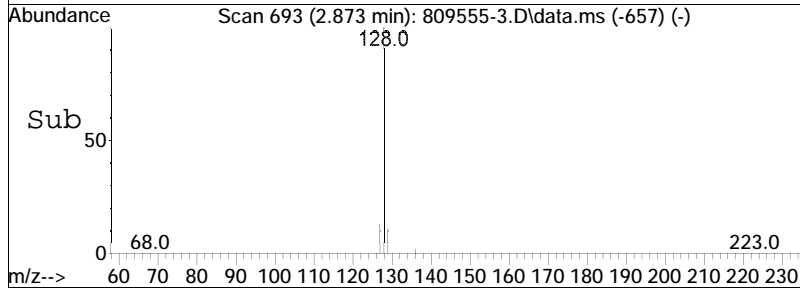
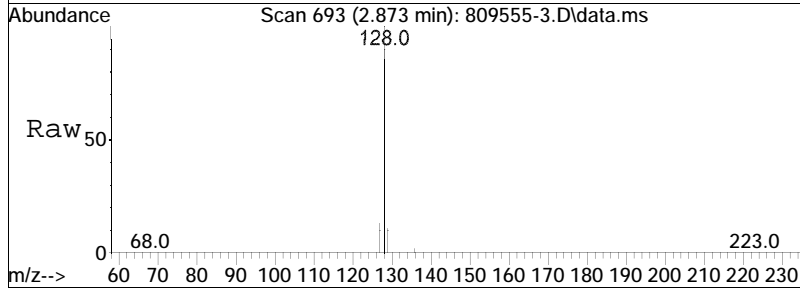
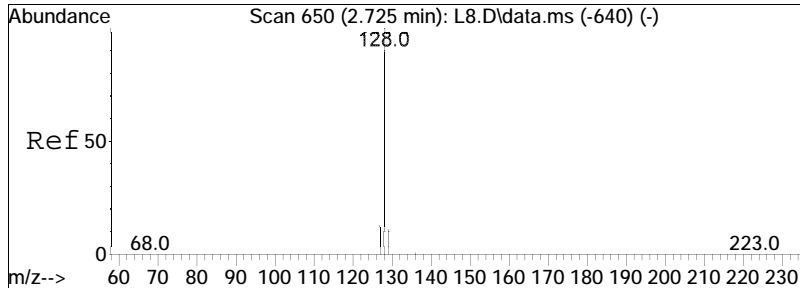




#4
 Hexachloroethane
 Concen: 4.30 ug/ml
 RT: 2.459 min Scan# 539
 Delta R.T. 0.023 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

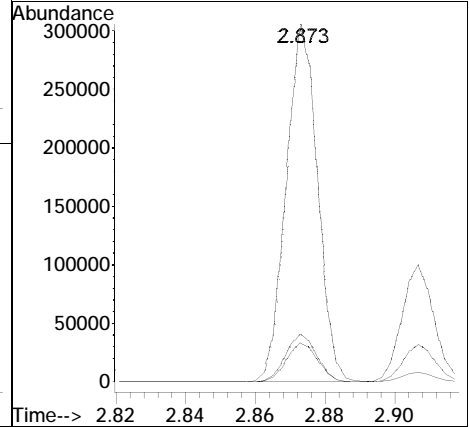
Tgt Ion: 117 Resp: 18987
 Ion Ratio Lower Upper
 117 100
 201 102.1 77.1 115.7

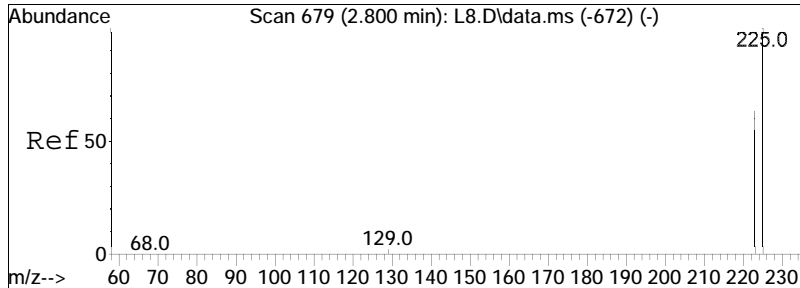




#9
 Naphthalene
 Concen: 5.29 ug/ml
 RT: 2.873 min Scan# 693
 Delta R.T. 0.021 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

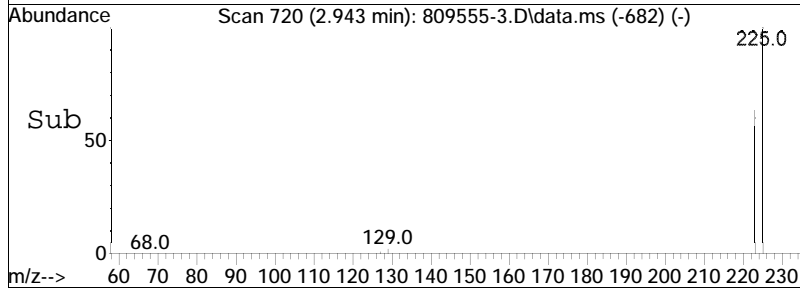
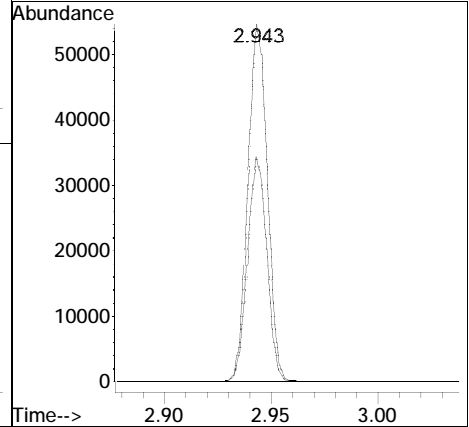
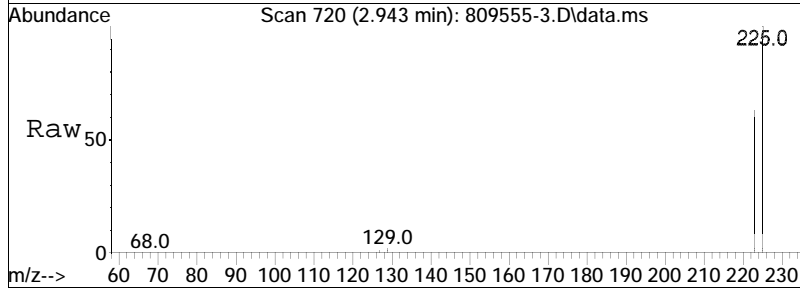
Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.3	10.8	16.2

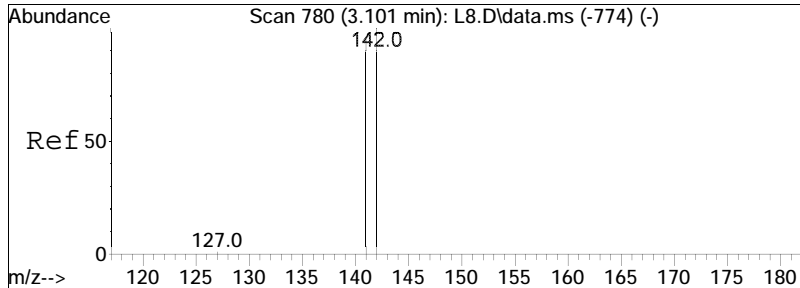




#10
 Hexachlorobutadiene
 Concen: 5.04 ug/ml
 RT: 2.943 min Scan# 720
 Delta R.T. 0.018 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

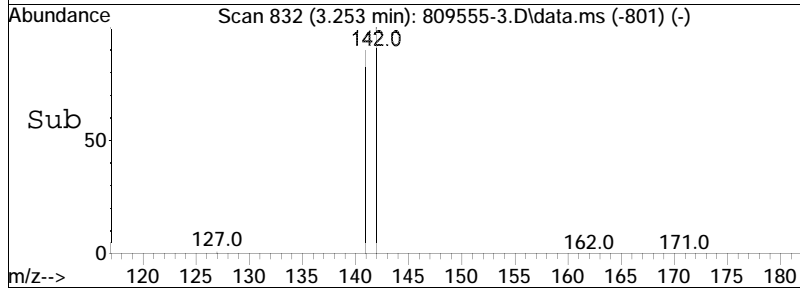
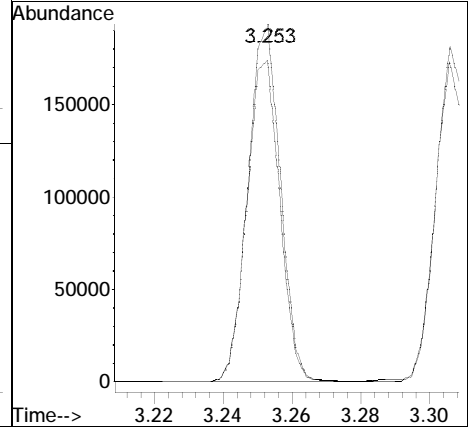
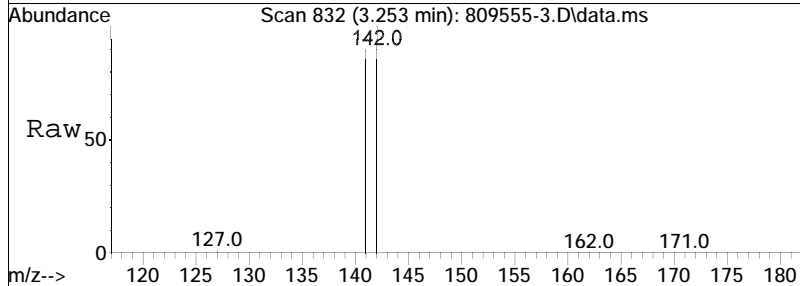
Tgt Ion	Resp	Lower	Upper
225	100		
223	62.7	50.4	75.6

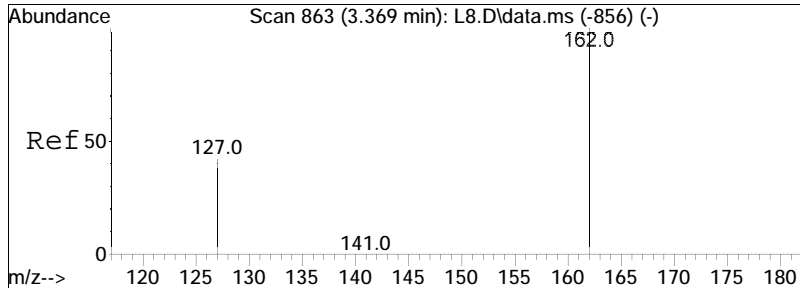




#11
 2-Methylnaphthalene
 Concen: 5.61 ug/ml
 RT: 3.253 min Scan# 832
 Delta R.T. 0.019 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

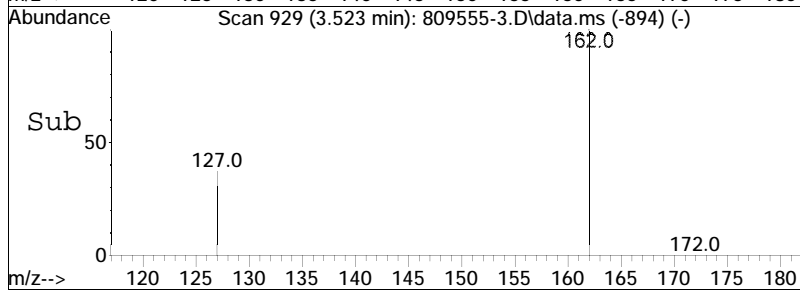
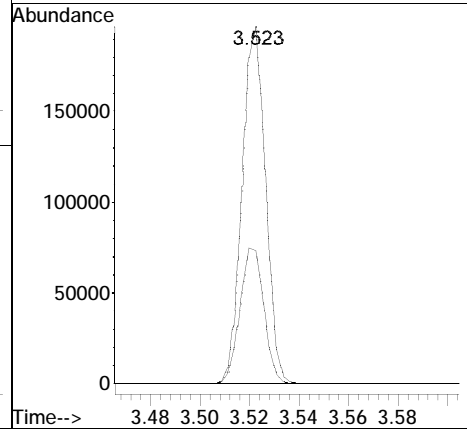
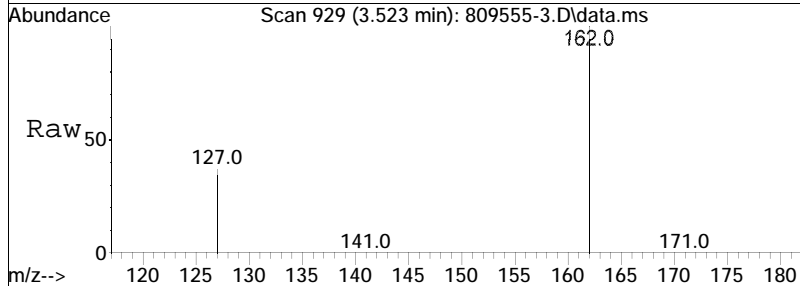
Tgt Ion	Resp	Lower	Upper
142	100		
141	91.6	74.2	111.4

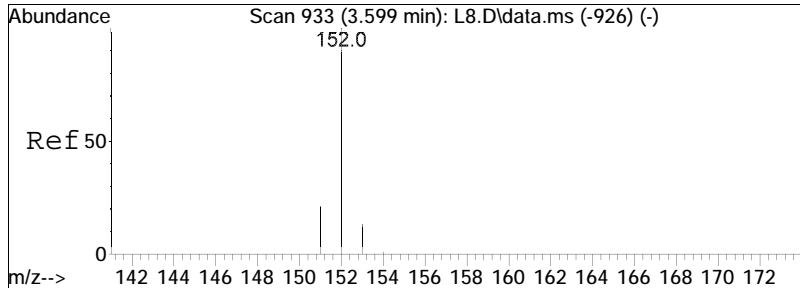




#14
 2-Chloronaphthalene
 Concen: 5.35 ug/ml
 RT: 3.523 min Scan# 929
 Delta R.T. 0.017 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

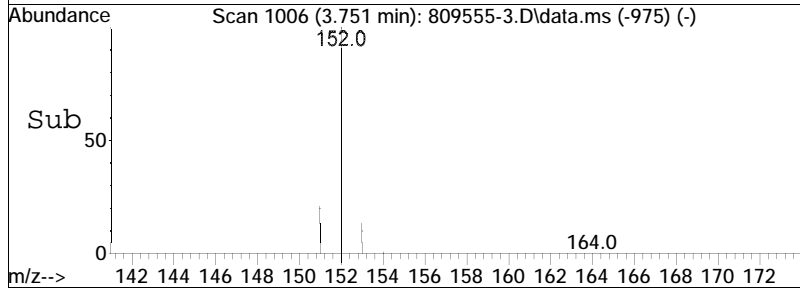
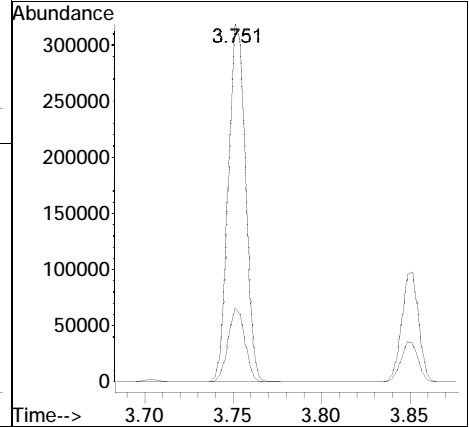
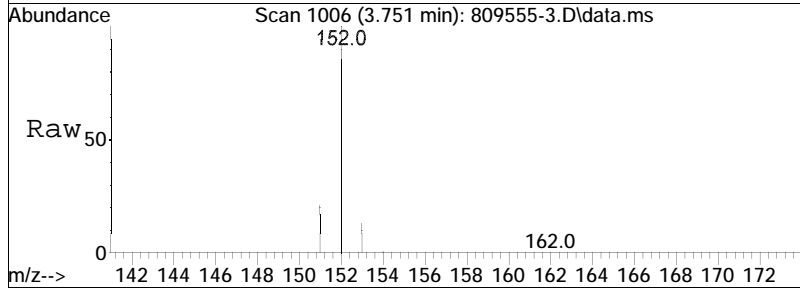
Tgt Ion	Resp	Lower	Upper
162	100		
127	39.1	31.5	47.3

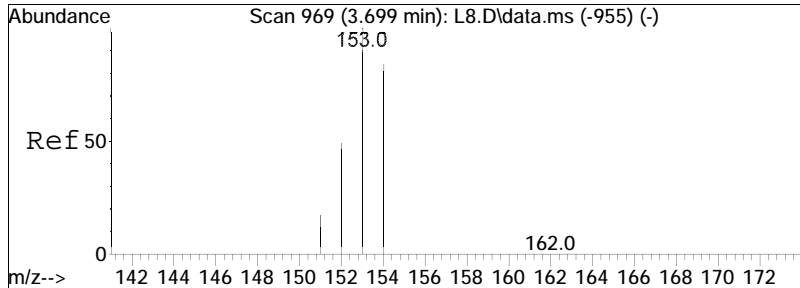




#15
 Acenaphthylene
 Concen: 6.22 ug/ml
 RT: 3.751 min Scan# 1006
 Delta R.T. 0.017 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

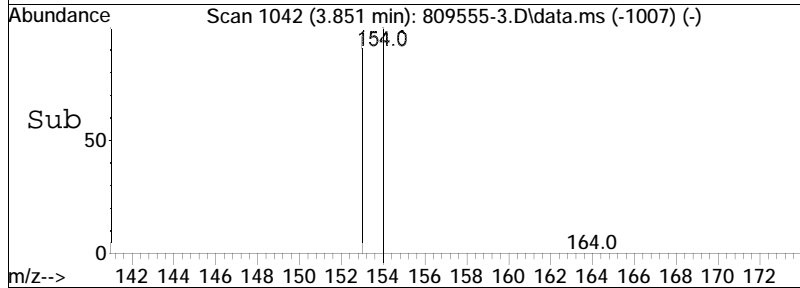
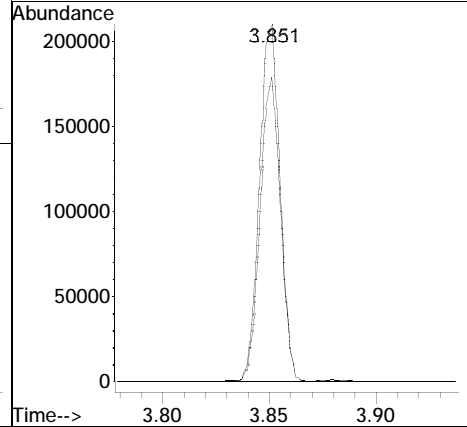
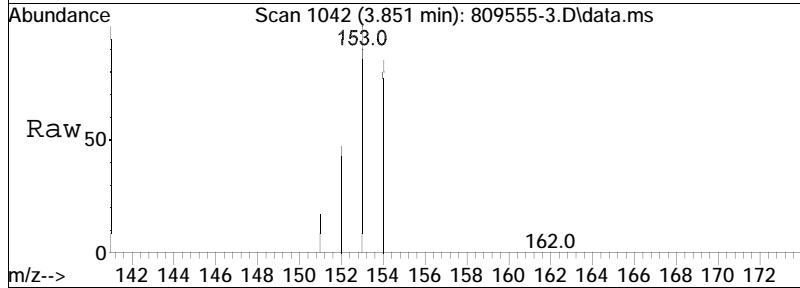
Tgt Ion	Resp	Lower	Upper
152	100		
151	20.4	16.3	24.5

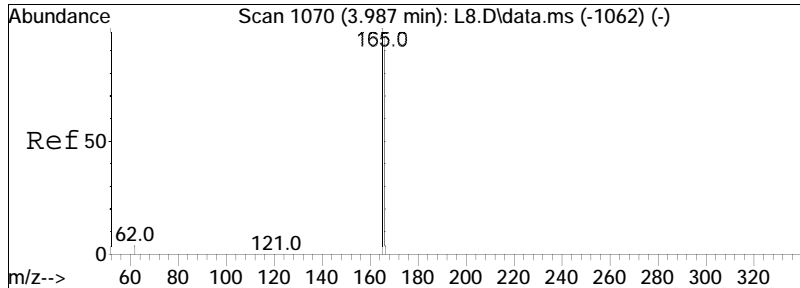




#17
 Acenaphthene
 Concen: 5.32 ug/ml
 RT: 3.851 min Scan# 1042
 Delta R.T. 0.017 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

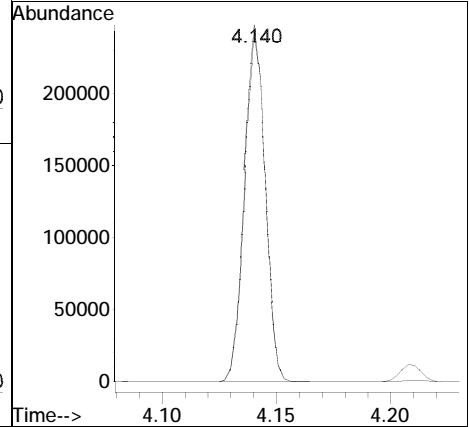
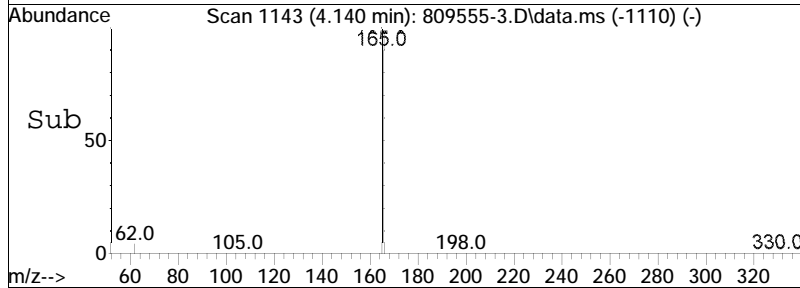
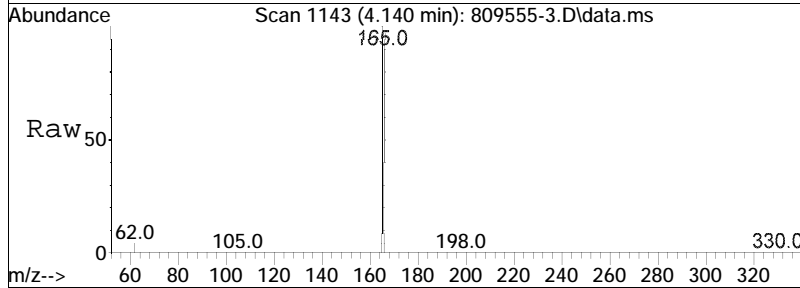
Tgt Ion	Resp	Lower	Upper
153	100		
154	84.5	70.8	106.2

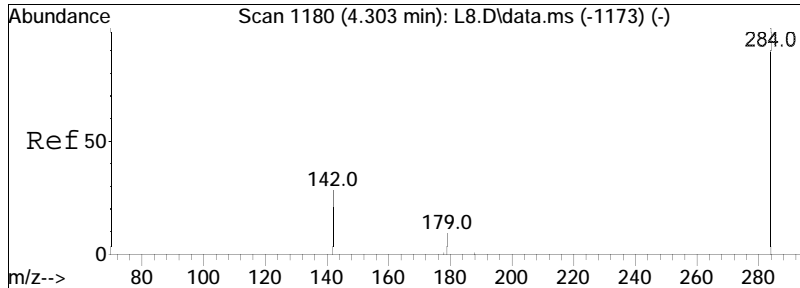




#18
 Fluorene
 Concen: 5.61 ug/ml
 RT: 4.140 min Scan# 1143
 Delta R.T. 0.013 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

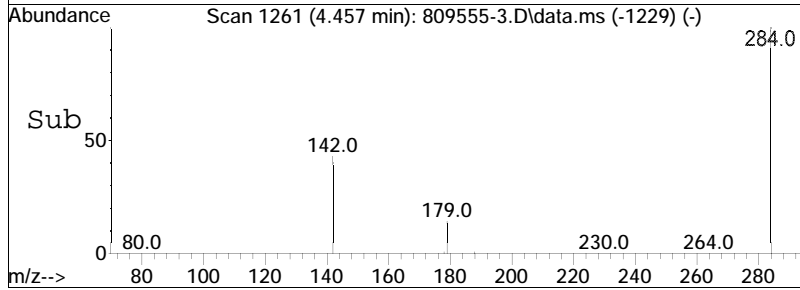
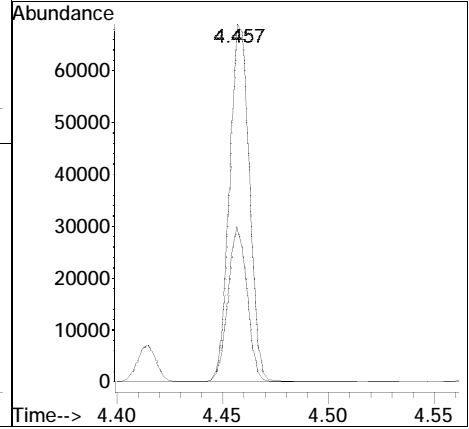
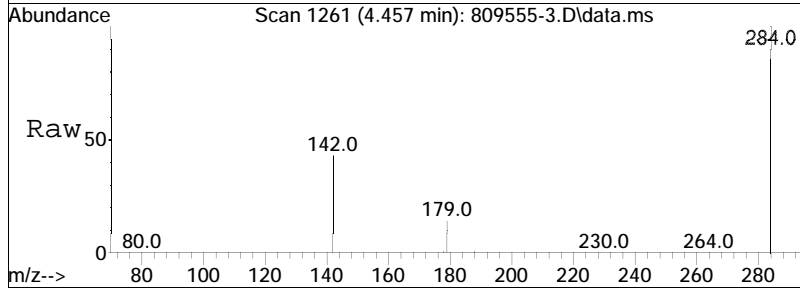
Tgt Ion	Resp	Lower	Upper
166	152468		
165	102.4	82.2	123.2

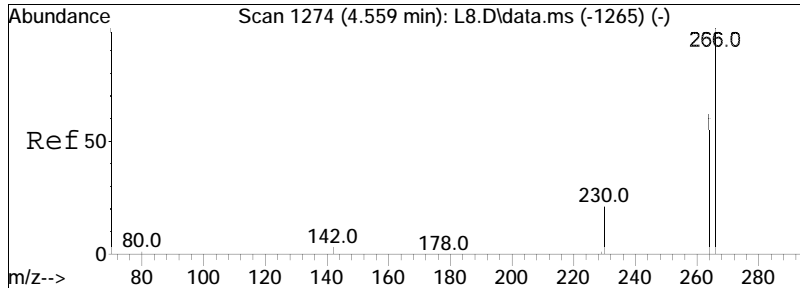




#22
 Hexachlorobenzene
 Concen: 4.38 ug/ml
 RT: 4.457 min Scan# 1261
 Delta R.T. 0.013 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

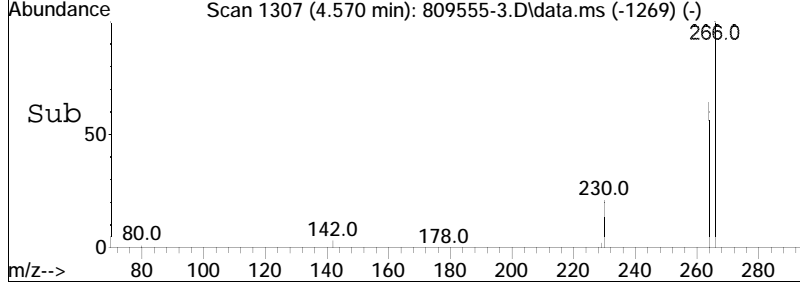
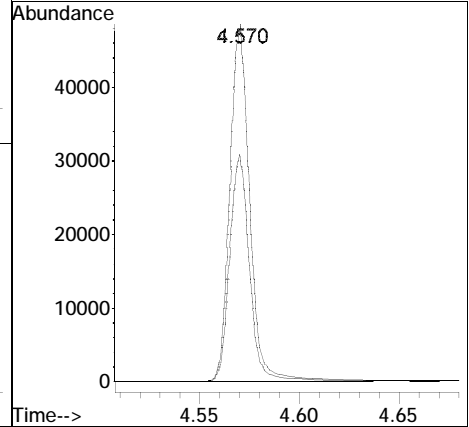
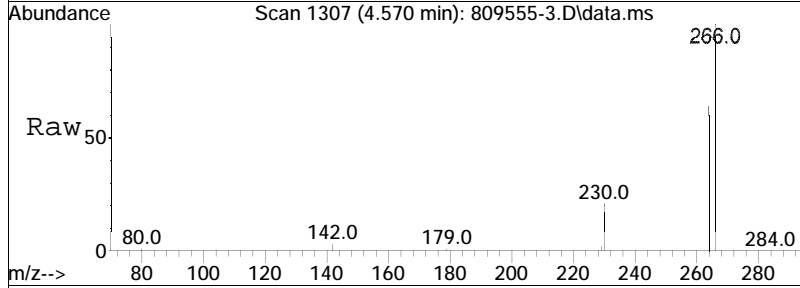
Tgt Ion: 284 Resp: 44245
 Ion Ratio Lower Upper
 284 100
 142 42.1 29.2 43.8

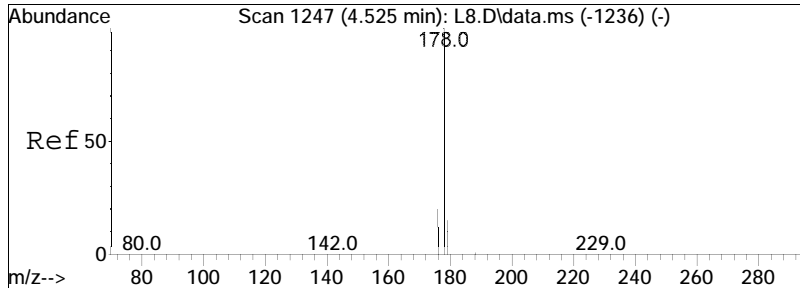




#23
 Pentachlorophenol
 Concen: 7.37 ug/ml
 RT: 4.570 min Scan# 1307
 Delta R.T. 0.013 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

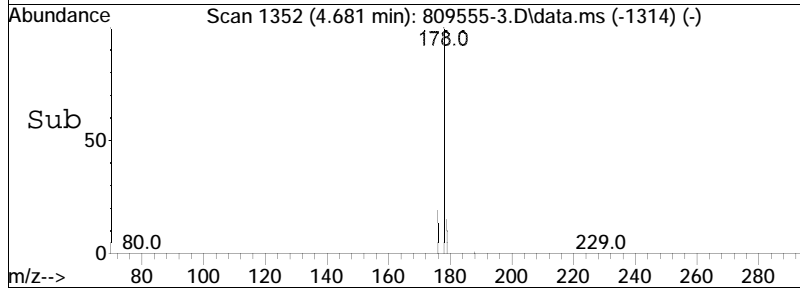
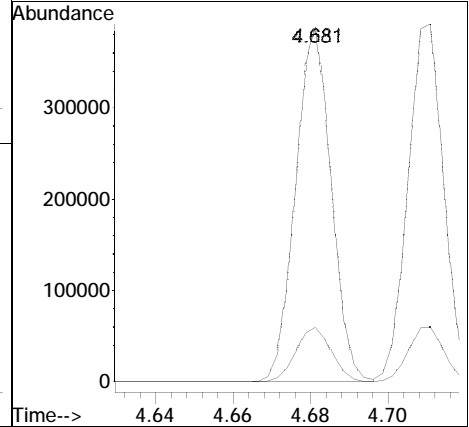
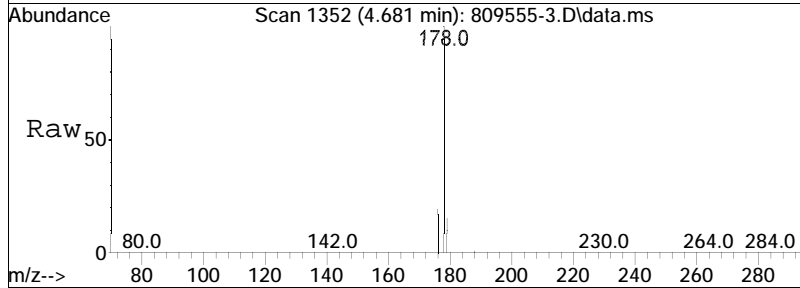
Tgt Ion: 266 Resp: 32951
 Ion Ratio Lower Upper
 266 100
 264 63.9 50.6 76.0

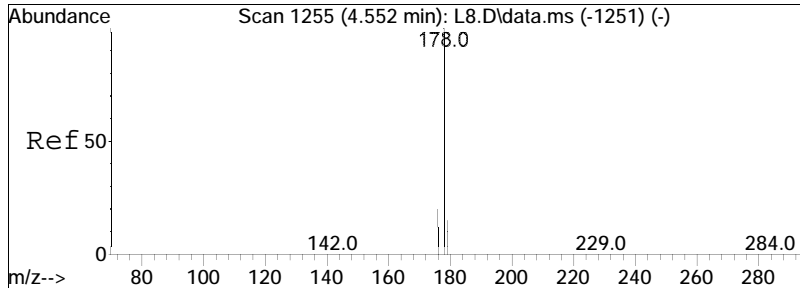




#24
 Phenanthrene
 Concen: 5.32 ug/ml
 RT: 4.681 min Scan# 1352
 Delta R.T. 0.013 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

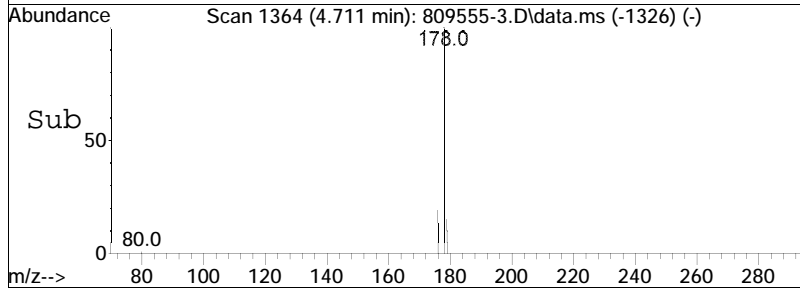
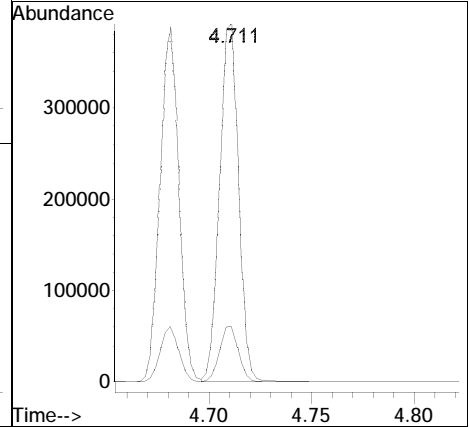
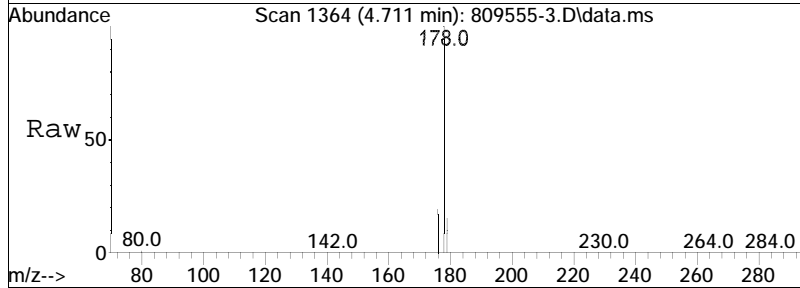
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

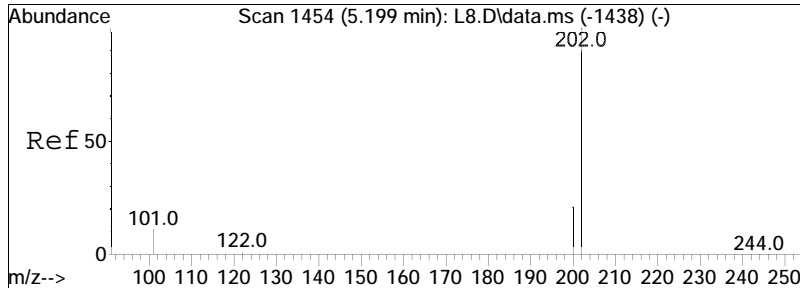




#25
 Anthracene
 Concen: 5.76 ug/ml
 RT: 4.711 min Scan# 1364
 Delta R.T. 0.013 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

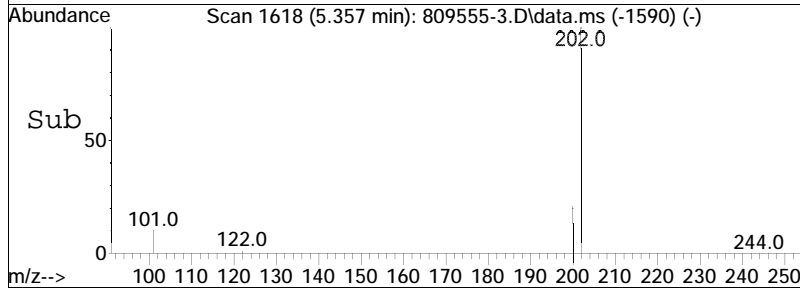
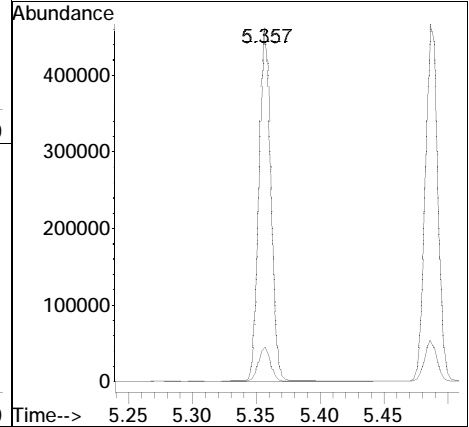
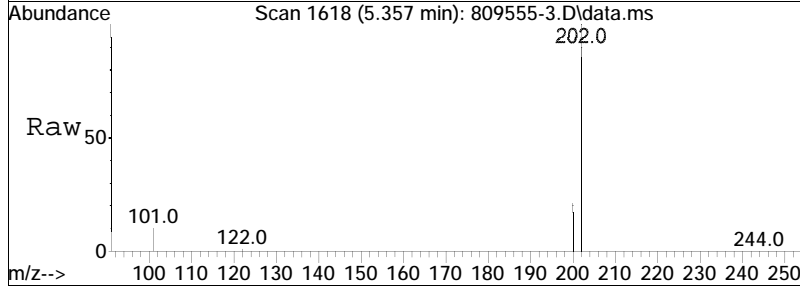
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.3	12.2	18.2

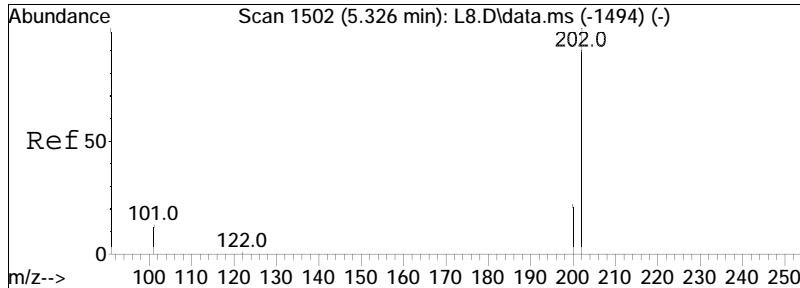




#27
 Fluoranthene
 Concen: 6.13 ug/ml
 RT: 5.357 min Scan# 1618
 Delta R.T. -0.007 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

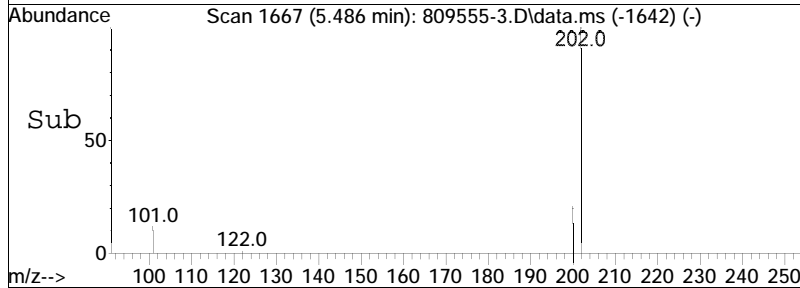
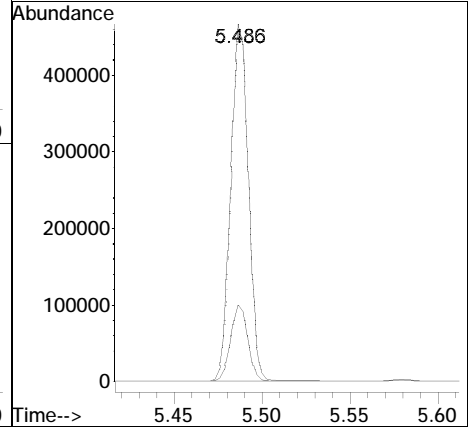
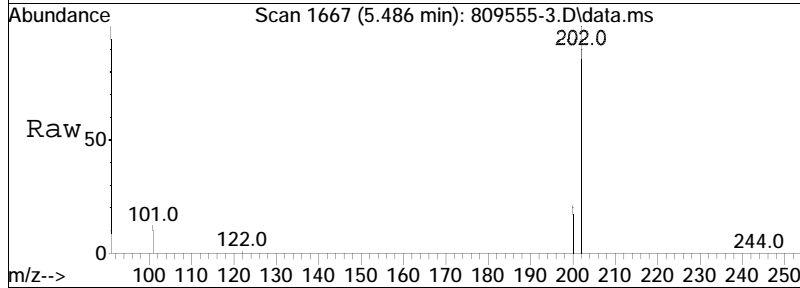
Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.7	9.3	13.9

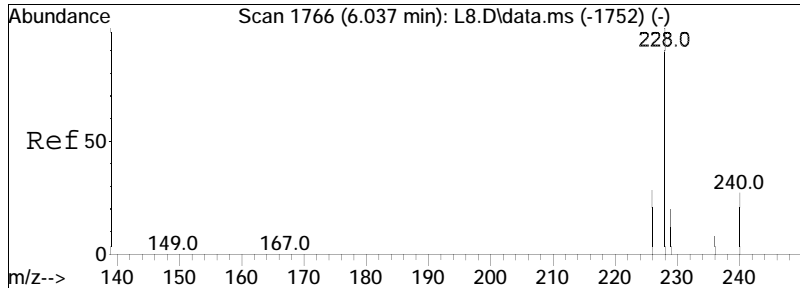




#28
 Pyrene
 Concen: 6.16 ug/ml
 RT: 5.486 min Scan# 1667
 Delta R.T. -0.015 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

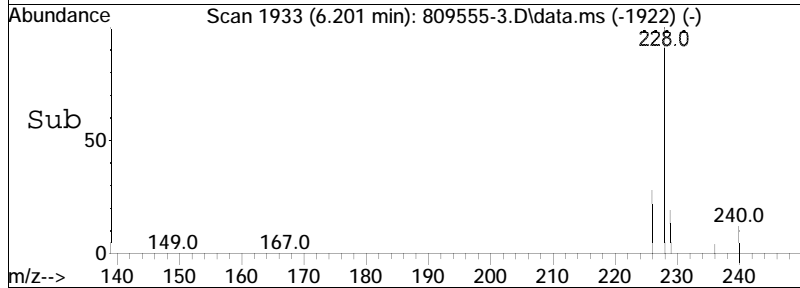
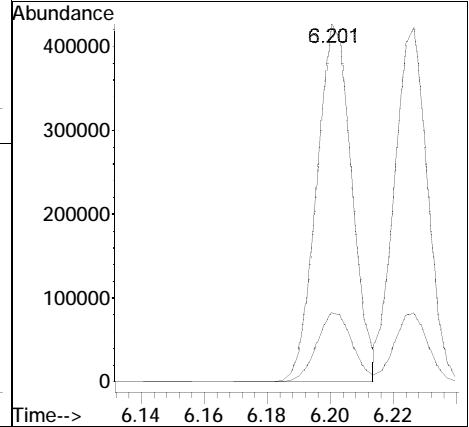
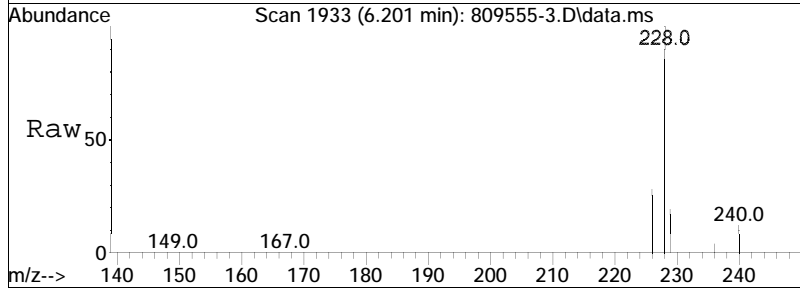
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.4	26.2

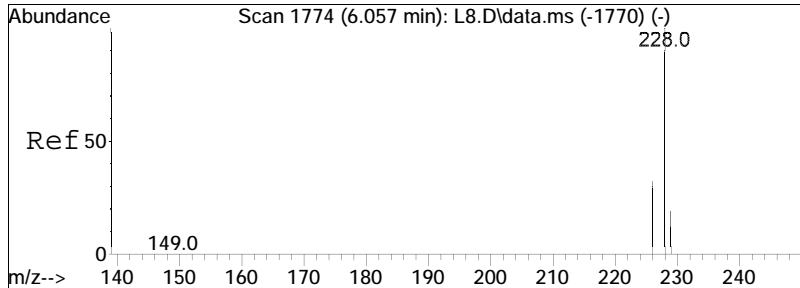




#31
 Benzo[a]anthracene
 Concen: 6.00 ug/ml
 RT: 6.201 min Scan# 1933
 Delta R.T. -0.051 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

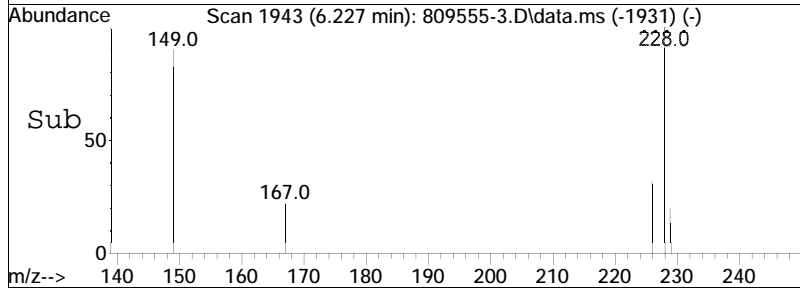
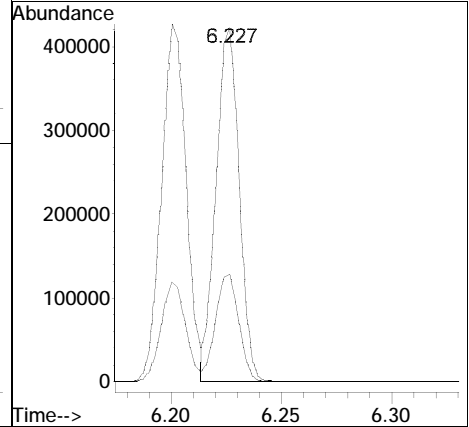
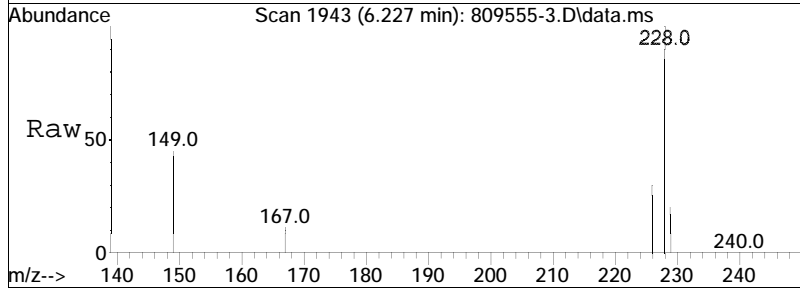
Tgt Ion	Resp	Lower	Upper
228	100		
229	19.5	15.6	23.4

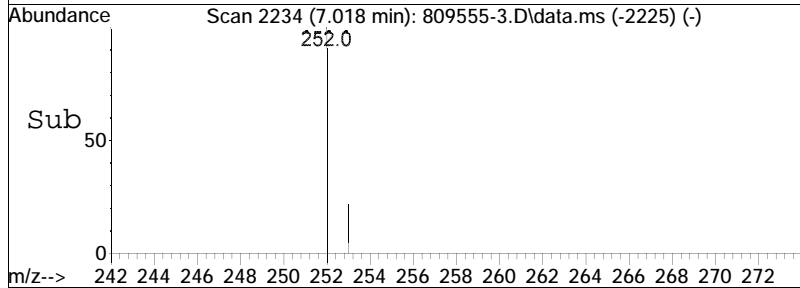
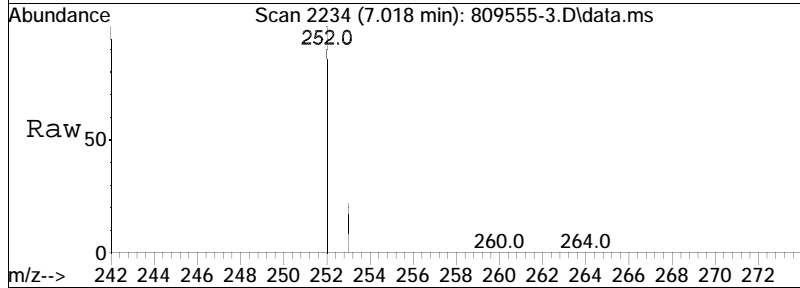
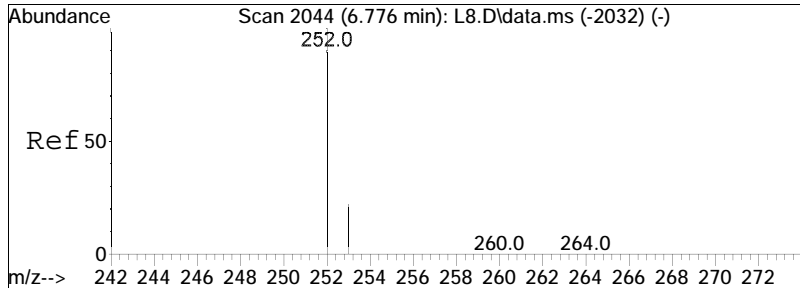




#32
 Chrysene
 Concen: 5.28 ug/ml
 RT: 6.227 min Scan# 1943
 Delta R.T. -0.049 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

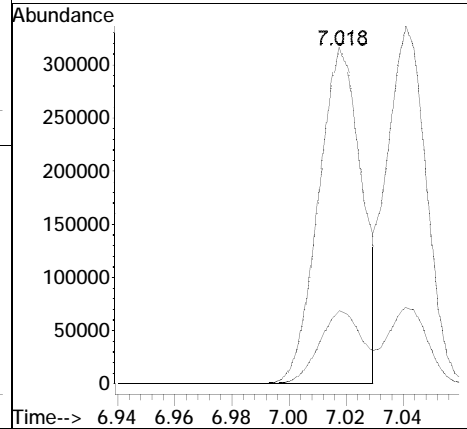
Tgt Ion: 228 Resp: 306774
 Ion Ratio Lower Upper
 228 100
 226 30.6 24.9 37.3

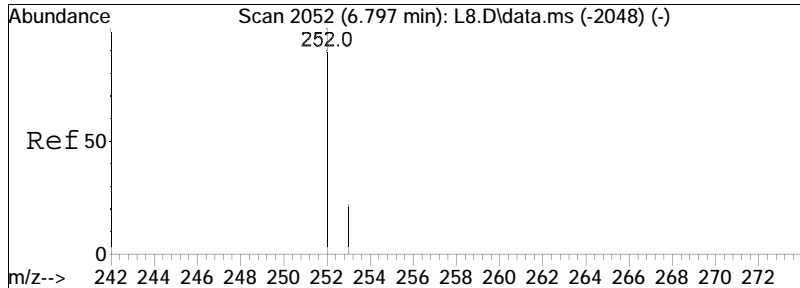




#35
 Benzo[b]fluoranthene
 Concen: 5.63 ug/ml
 RT: 7.018 min Scan# 2234
 Delta R.T. -0.054 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

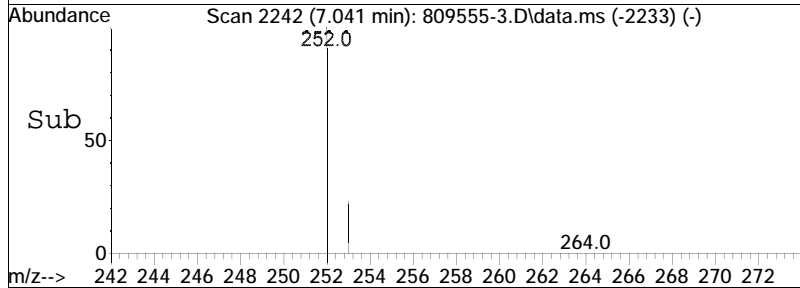
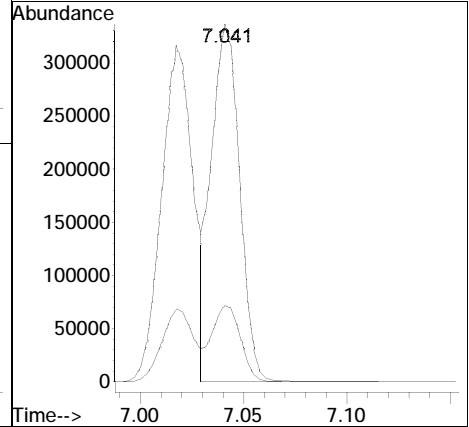
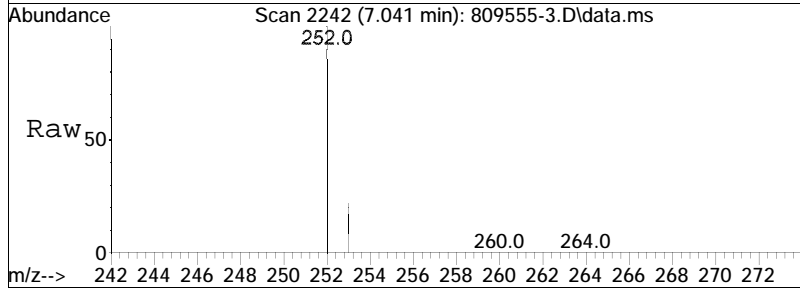
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.5	17.2	25.8

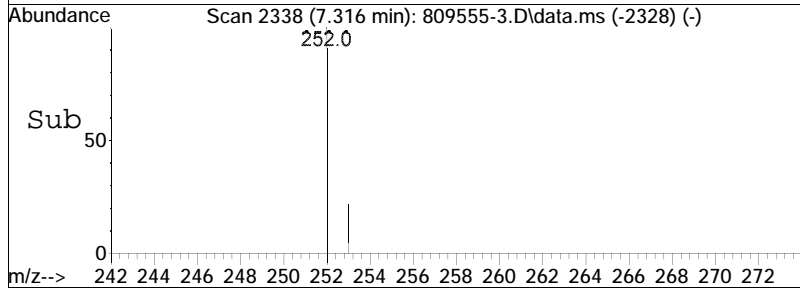
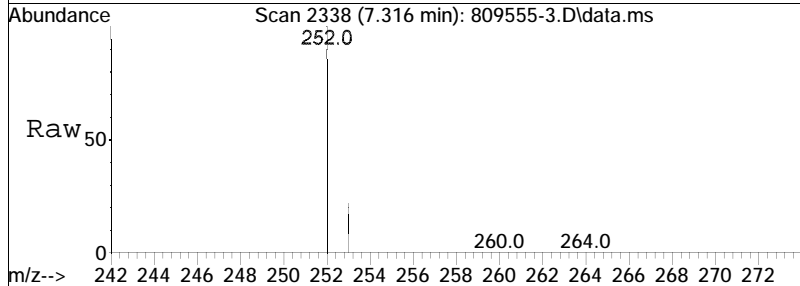
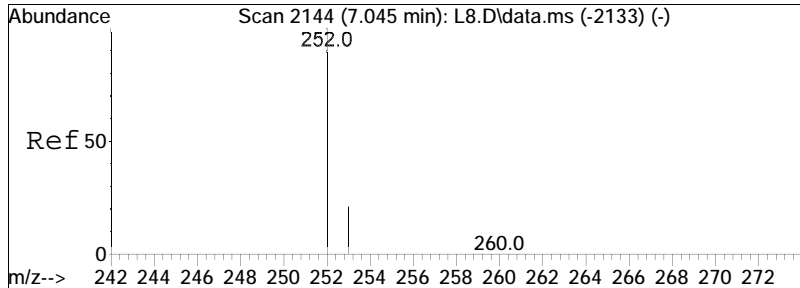




#36
 Benzo[k]fluoranthene
 Concen: 5.46 ug/ml
 RT: 7.041 min Scan# 2242
 Delta R.T. -0.054 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

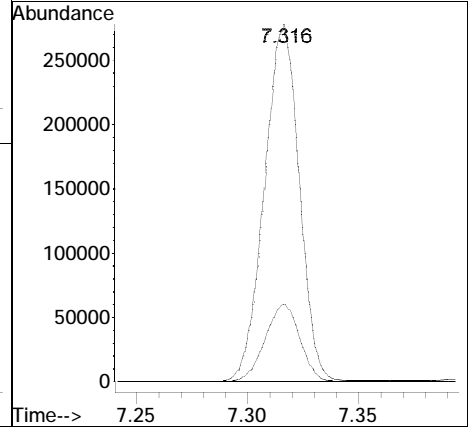
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.8	17.4	26.0

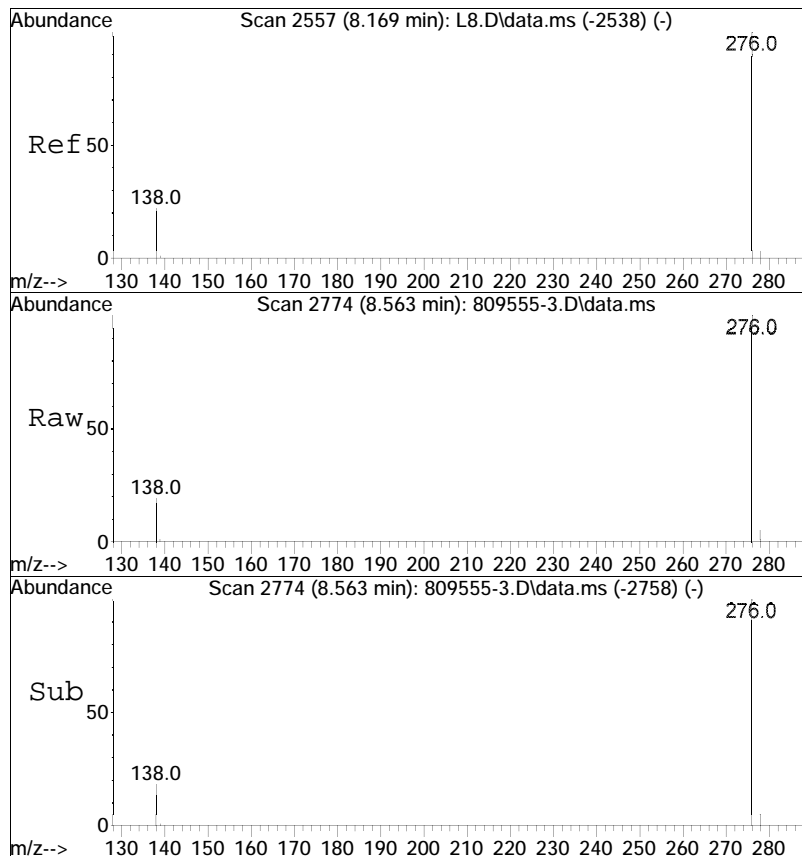




#37
 Benzo[a]pyrene
 Concen: 6.18 ug/ml
 RT: 7.316 min Scan# 2338
 Delta R.T. -0.051 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

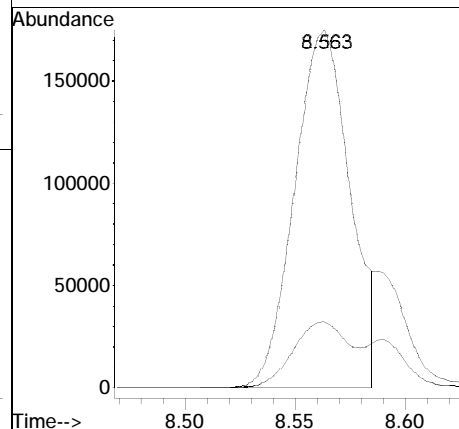
Tgt Ion	Resp	Lower	Upper
252	299442		
253	21.7	16.8	25.2

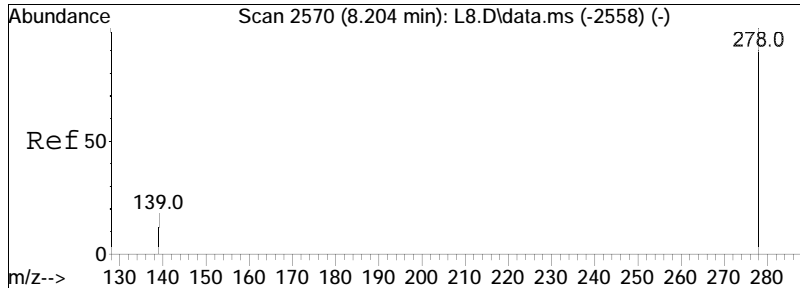




#38
 Indeno[1,2,3-cd]pyrene
 Concen: 6.78 ug/ml M6
 RT: 8.563 min Scan# 2774
 Delta R.T. -0.037 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

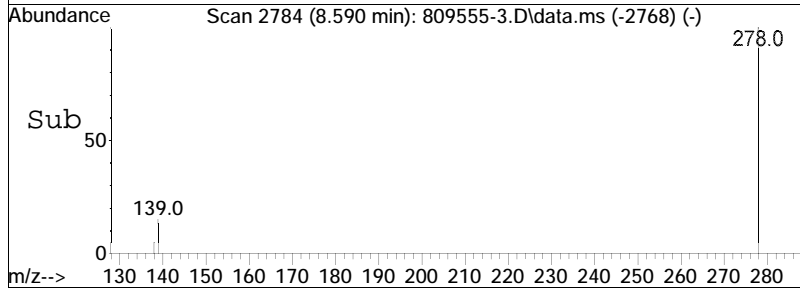
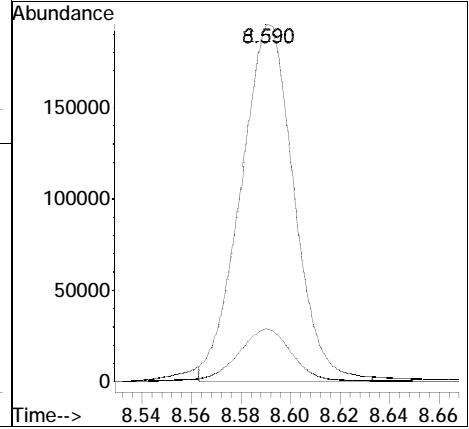
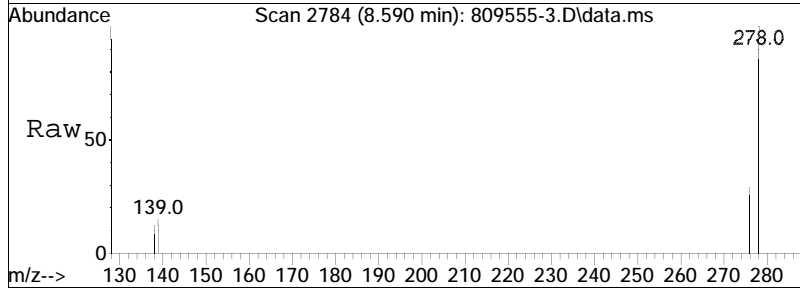
Tgt Ion	Resp	Lower	Upper
276	304409		
138	18.6	17.9	26.9

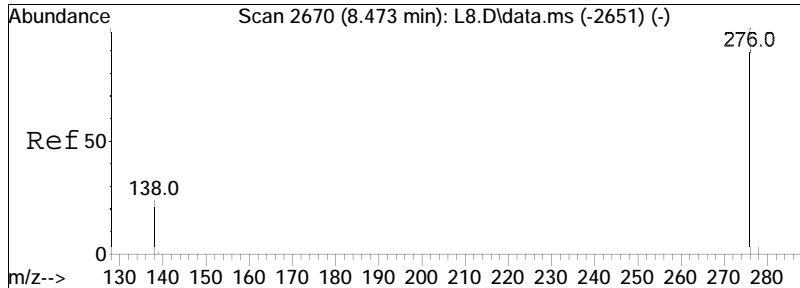




#39
 Dibenzo[a,h]anthracene
 Concen: 5.62 ug/ml M6
 RT: 8.590 min Scan# 2784
 Delta R.T. -0.037 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

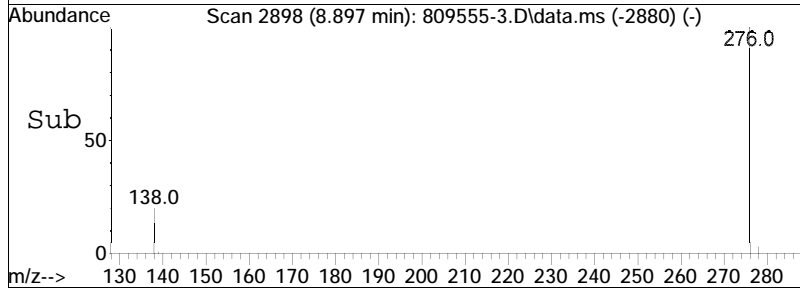
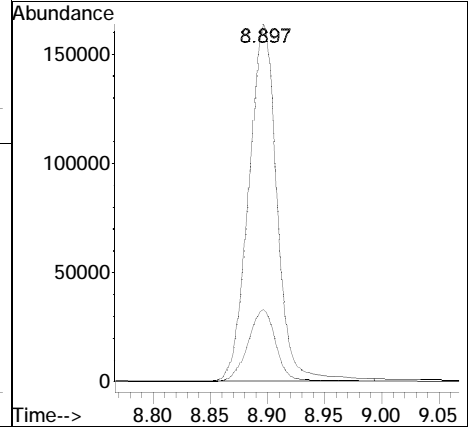
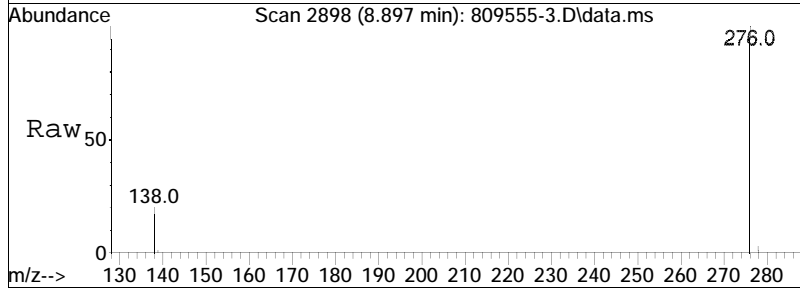
Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.2	15.9	23.9#





#40
 Benzo[g,h,i]perylene
 Concen: 4.88 ug/ml M1
 RT: 8.897 min Scan# 2898
 Delta R.T. -0.032 min
 Lab File: 809555-3.D
 Acq: 08 Aug 2023 02:40 pm

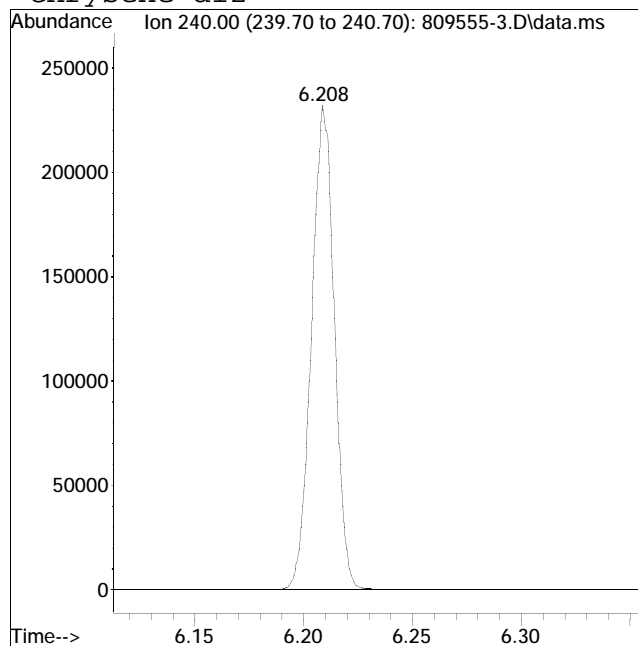
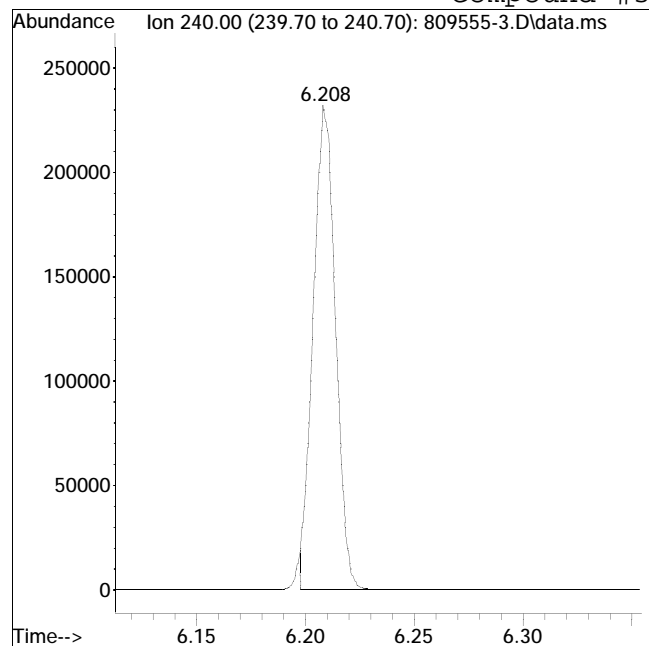
Tgt Ion	Resp	Lower	Upper
276	100		
138	19.7	20.1	30.1#



Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 809555-3.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 2:40 pm Instrument : SV120
Sample : Wg1809555-3,32,,RV,TIC Quant Date : 8/8/2023 2:53 pm

Compound #30: Chrysene-d12



Original Peak Response = 164739

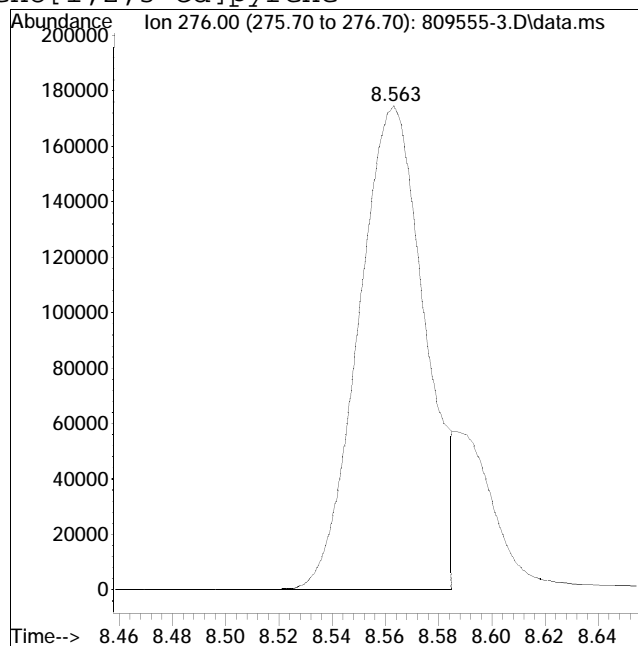
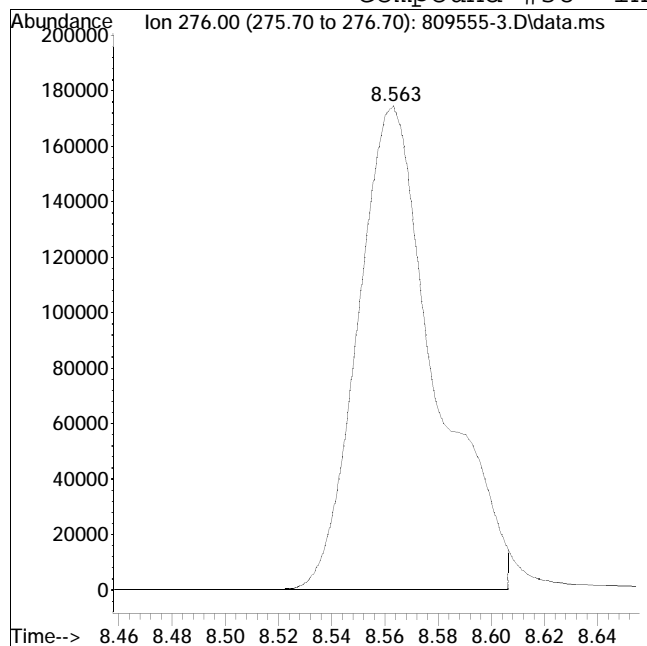
Manual Peak Response = 169713 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 809555-3.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 2:40 pm Instrument : SV120
Sample : Wg1809555-3,32,,RV,TIC Quant Date : 8/8/2023 2:53 pm

Compound #38: Indeno[1,2,3-cd]pyrene



Original Peak Response = 354864

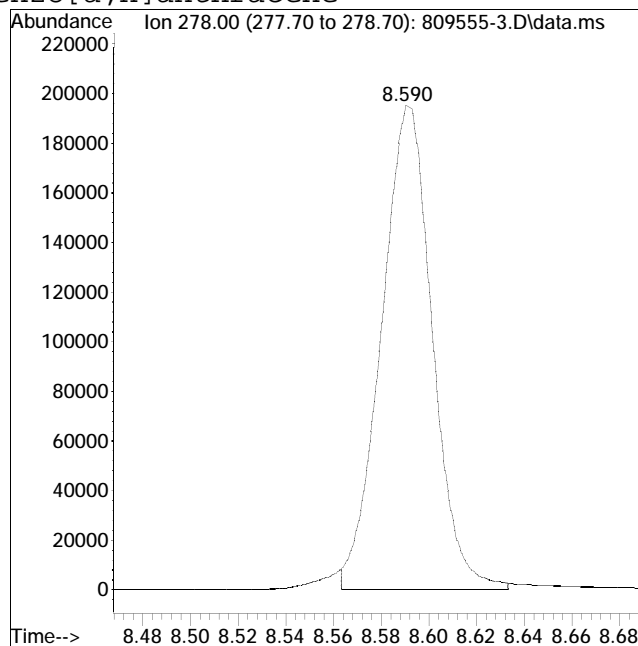
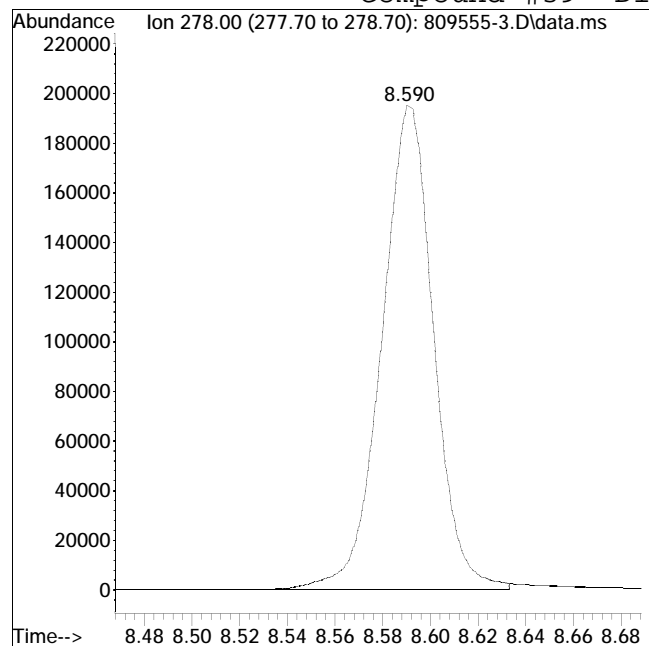
Manual Peak Response = 304409 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 809555-3.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 2:40 pm Instrument : SV120
Sample : Wg1809555-3,32,,RV,TIC Quant Date : 8/8/2023 2:53 pm

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 294959

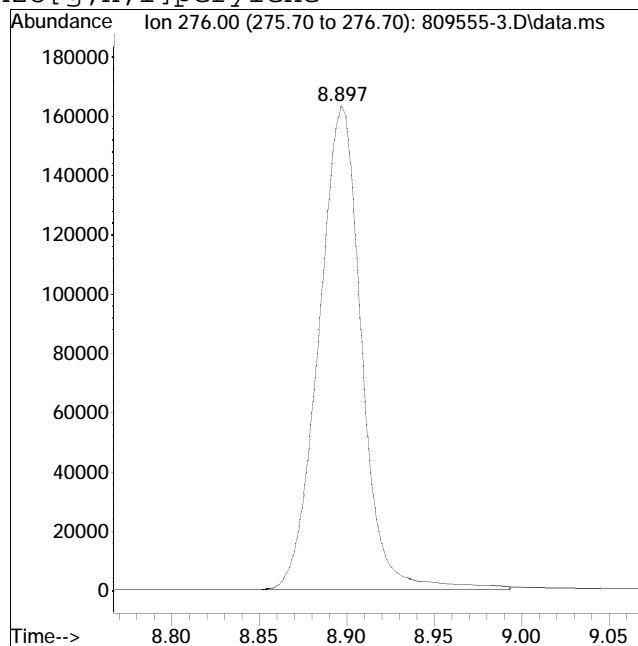
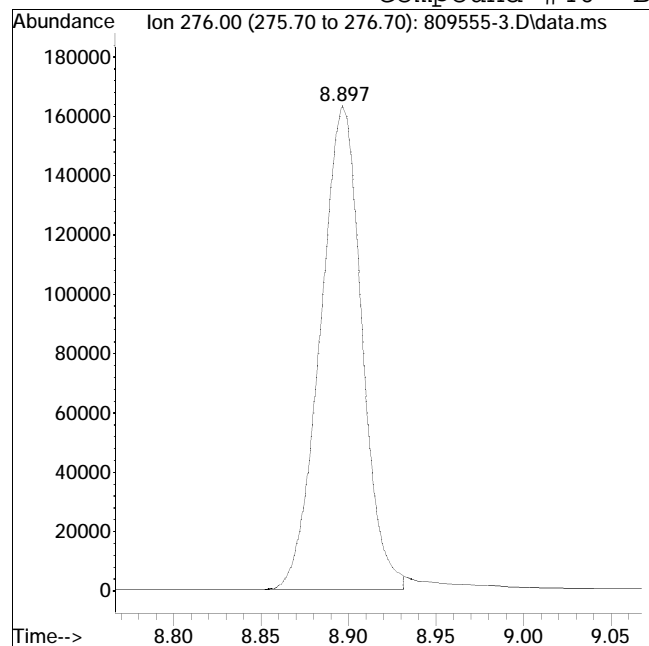
Manual Peak Response = 289745 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 809555-3.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 2:40 pm Instrument : SV120
Sample : Wg1809555-3,32,,RV,TIC Quant Date : 8/8/2023 2:53 pm

Compound #40: Benzo[g,h,i]perylene



Original Peak Response = 269618

Manual Peak Response = 277834 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 9555-4d1.D
 Acq On : 08 Aug 2023 02:56 pm
 Operator : SV120:jjw
 Sample : Wg1809555-4,32,5,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 09:11:38 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230808ST\ccv0808.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.201	152	29200	4.000	ug/ml	0.02
Standard Area 1 = 25900			Recovery =	112.74%		
8) Naphthalene-d8	2.863	136	129096	4.000	ug/ml	0.02
Standard Area 1 = 96934			Recovery =	133.18%		
16) Acenaphthene-d10	3.832	164	67878	4.000	ug/ml	0.01
Standard Area 1 = 51703			Recovery =	131.28%		
20) Phenanthrene-d10	4.666	188	150594	4.000	ug/ml	0.01
Standard Area 1 = 107414			Recovery =	140.20%		
30) Chrysene-d12	6.211	240	140825M1	4.000	ug/ml	-0.05
Standard Area 1 = 96547			Recovery =	145.86%		
34) Perylene-d12	7.374	264	159485	4.000	ug/ml	-0.05
Standard Area 1 = 119148			Recovery =	133.85%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.610	112	34031	4.496	ug/ml	0.03
Spiked Amount 50.000	Range 15 - 110		Recovery =	8.99%#		
3) Phenol-d6	2.020	99	30688	3.282	ug/ml	0.03
Spiked Amount 50.000	Range 15 - 110		Recovery =	6.56%#		
7) Nitrobenzene-d5	2.485	82	28154	3.817	ug/ml	0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	15.27%#		
13) 2-Fluorobiphenyl	3.456	172	73717	2.889	ug/ml	0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	11.56%#		
19) 2,4,6-Tribromophenol	4.278	330	12376	4.022	ug/ml	0.01
Spiked Amount 50.000	Range 15 - 110		Recovery =	8.04%#		
26) O-Terphenyl-MS	0.000	230	0d	0.000	ug/ml	
Spiked Amount 20.000	Range 40 - 140		Recovery =	0.00%#		
29) 4-Terphenyl-d14	5.579	244	98955	3.203	ug/ml	-0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	12.81%#		
Target Compounds						
4) Hexachloroethane	2.459	117	11532	3.272	ug/ml	96
5) Bis(2-chloroethyl)ether	2.069	93	38477	4.853	ug/ml	98
6) n-nitrosodi-n-propylamine	2.402	70	29343	5.524	ug/ml	97
9) Naphthalene	2.873	128	128307	3.860	ug/ml	100
10) Hexachlorobutadiene	2.943	225	21704	3.485	ug/ml	100
11) 2-Methylnaphthalene	3.253	142	89077	4.267	ug/ml	99
12) 1-Methylnaphthalene	3.306	142	83655	4.090	ug/ml	99
14) 2-Chloronaphthalene	3.523	162	93584	4.239	ug/ml	94
15) Acenaphthylene	3.751	152	157195	4.947	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 9555-4d1.D
 Acq On : 08 Aug 2023 02:56 pm
 Operator : SV120:jjw
 Sample : Wg1809555-4,32,5,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 09:11:38 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230808ST\ccv0808.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthene	3.849	153	102354	4.423	ug/ml	96
18) Fluorene	4.140	166	115200	4.729	ug/ml	100
21) 4,6-Dinitro-o-cresol	4.179	198	1678	0.997	ug/ml	89
22) Hexachlorobenzene	4.457	284	33801	3.757	ug/ml	90
23) Pentachlorophenol	4.570	266	20996	5.339	ug/ml	98
24) Phenanthrene	4.681	178	181609	4.388	ug/ml	100
25) Anthracene	4.708	178	183441	4.721	ug/ml	100
27) Fluoranthene	5.359	202	214062	4.812	ug/ml	95
28) Pyrene	5.489	202	223898	4.846	ug/ml	99
31) Benzo[a]anthracene	6.203	228	222719	4.858	ug/ml	100
32) Chrysene	6.226	228	209313	4.346	ug/ml	99
33) Bis(2-ethylhexyl)phtha...	6.224	149	147841	6.417	ug/ml	97
35) Benzo[b]fluoranthene	7.018	252	223084	4.605	ug/ml	100
36) Benzo[k]fluoranthene	7.041	252	216267	4.567	ug/ml	99
37) Benzo[a]pyrene	7.316	252	198940	5.042	ug/ml	98
38) Indeno[1,2,3-cd]pyrene	8.560	276	184521	5.047	ug/ml#	90
39) Dibenzo[a,h]anthracene	8.593	278	194387M6	4.631	ug/ml	
40) Benzo[g,h,i]perylene	8.896	276	184015	3.967	ug/ml	90

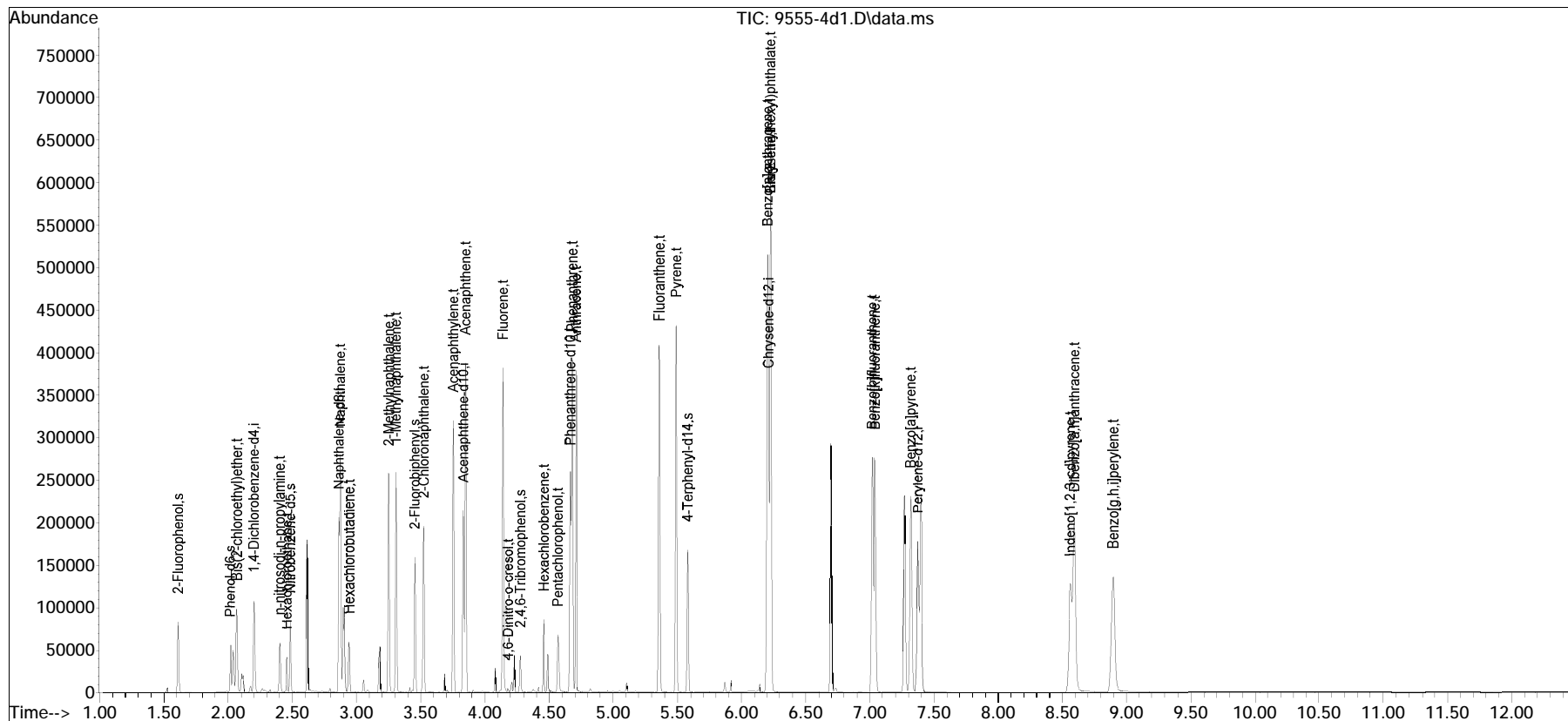
(#) = qualifier out of range (m) = manual integration (+) = signals summed

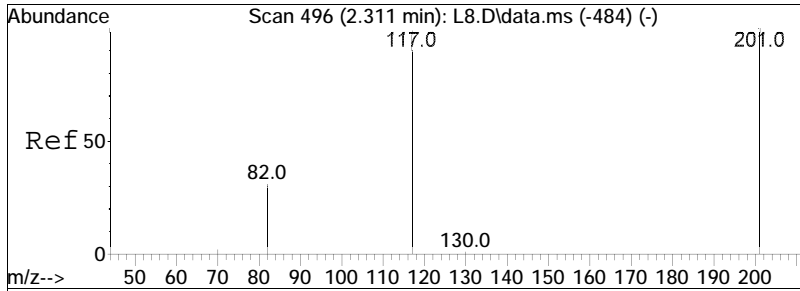
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 9555-4d1.D
 Acq On : 08 Aug 2023 02:56 pm
 Operator : SV120:jjw
 Sample : Wg1809555-4,32,5,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 09 09:11:38 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

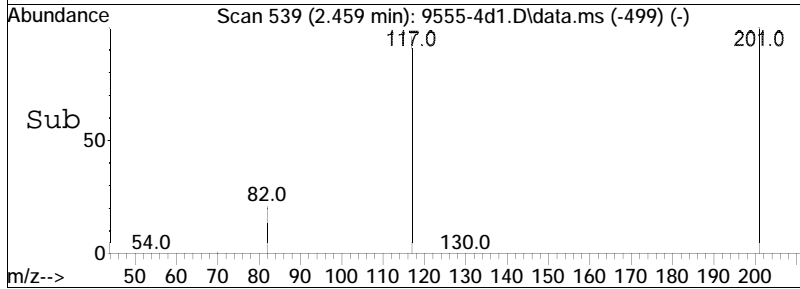
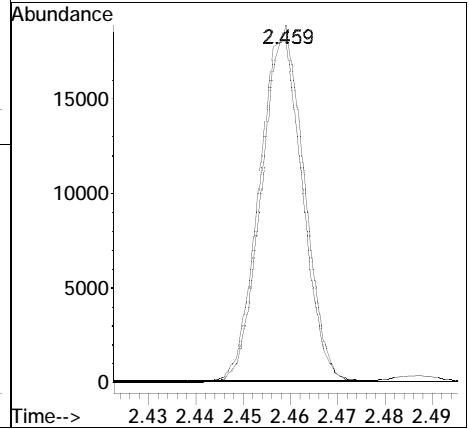
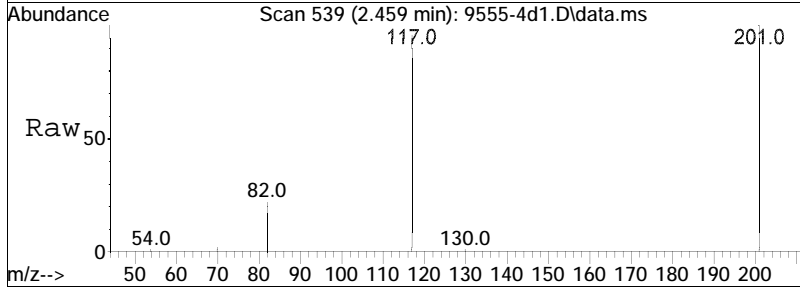
Sub List : DEFAULT - All compounds listedccv0808.D•

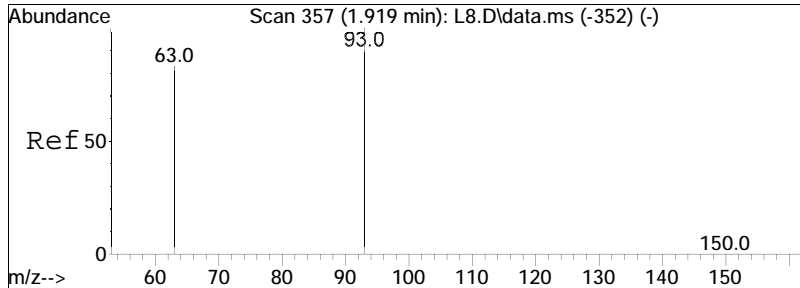




#4
 Hexachloroethane
 Concen: 3.27 ug/ml
 RT: 2.459 min Scan# 539
 Delta R.T. 0.023 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

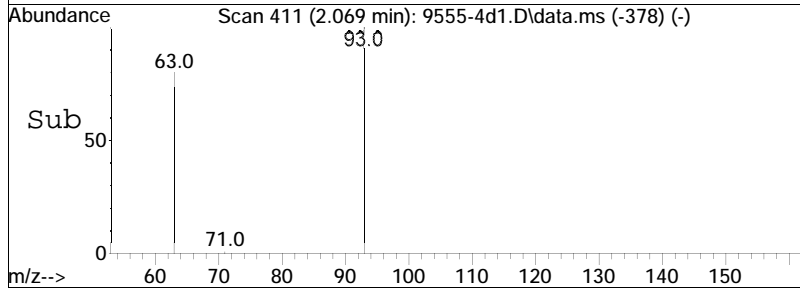
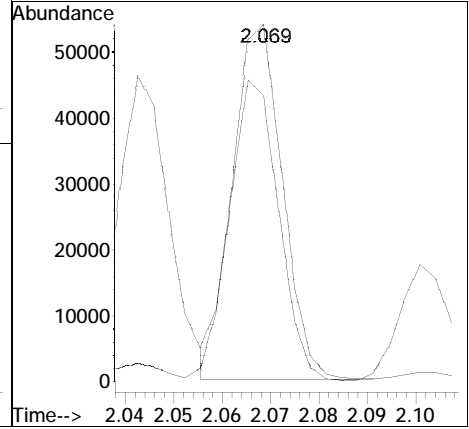
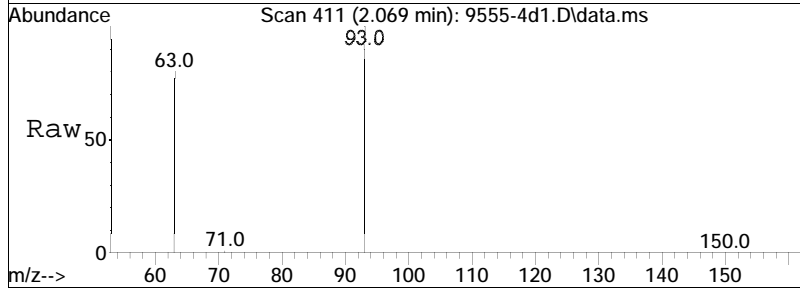
Tgt Ion: 117 Resp: 11532
 Ion Ratio Lower Upper
 117 100
 201 100.8 77.1 115.7

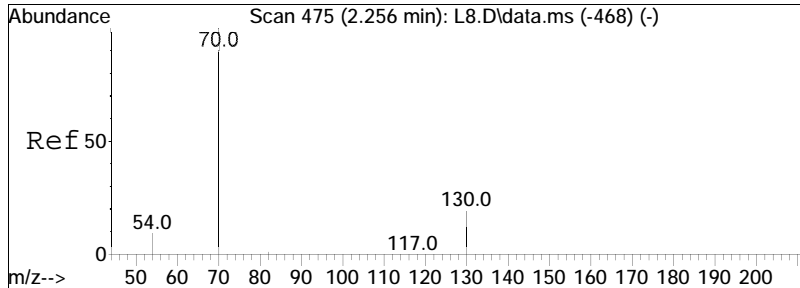




#5
 Bis(2-chloroethyl)ether
 Concen: 4.85 ug/ml
 RT: 2.069 min Scan# 411
 Delta R.T. 0.026 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

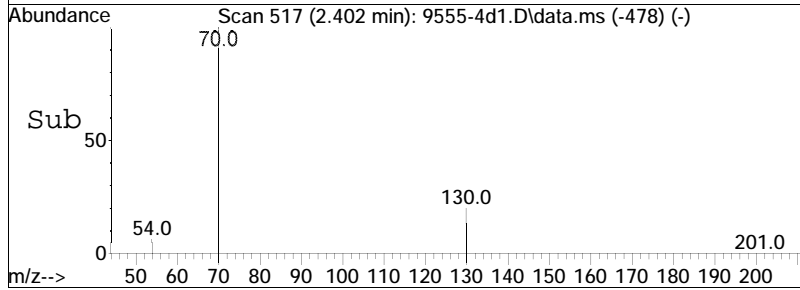
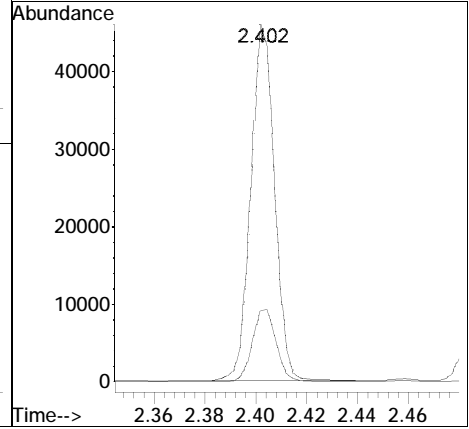
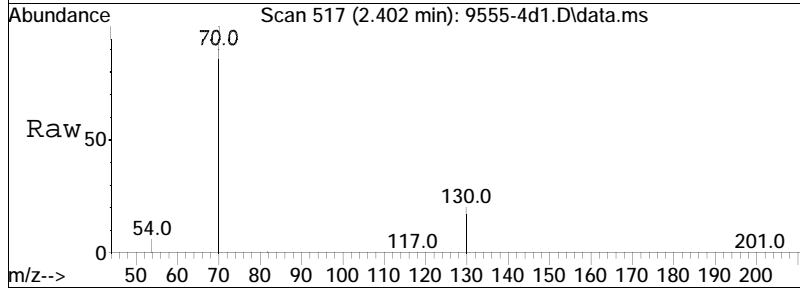
Tgt Ion	Resp	Lower	Upper
93	100		
63	83.4	65.5	98.3

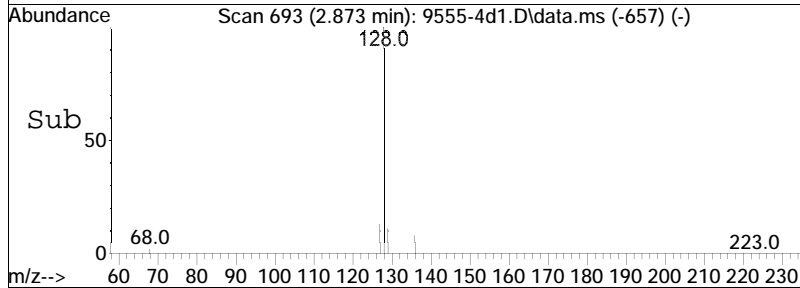
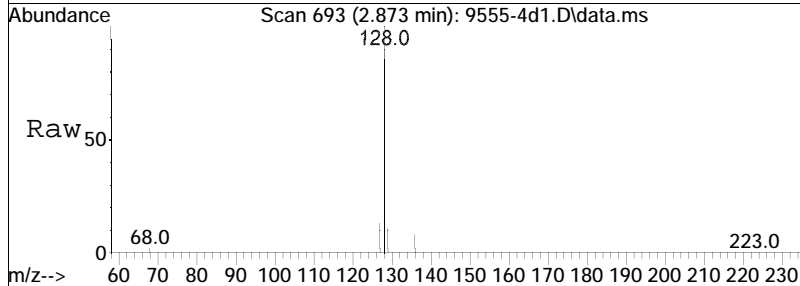
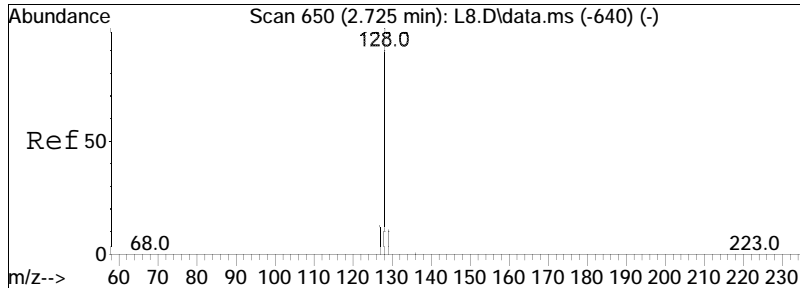




#6
 n-nitrosodi-n-propylamine
 Concen: 5.52 ug/ml
 RT: 2.402 min Scan# 517
 Delta R.T. 0.021 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

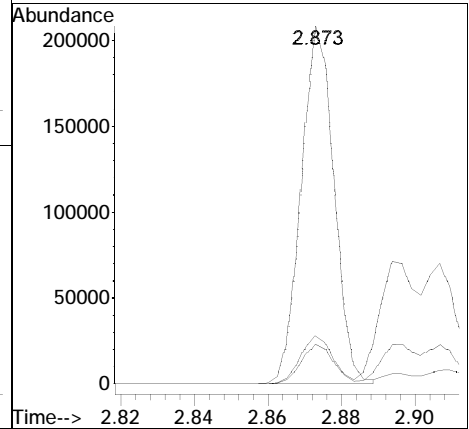
Tgt Ion:	Resp:	Lower	Upper
70	100		
130	20.2	15.0	22.4

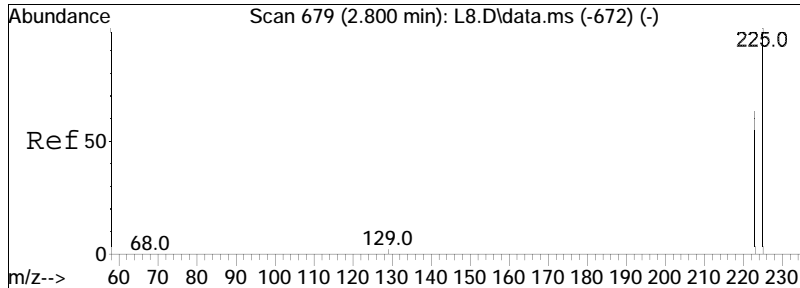




#9
 Naphthalene
 Concen: 3.86 ug/ml
 RT: 2.873 min Scan# 693
 Delta R.T. 0.021 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

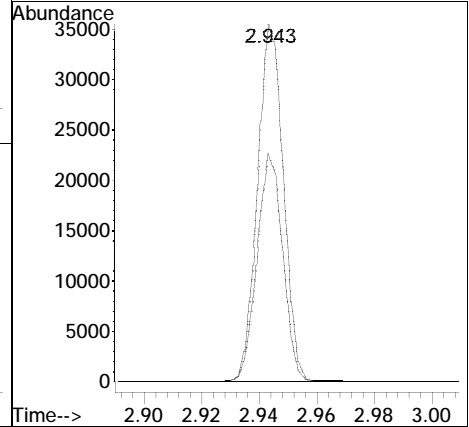
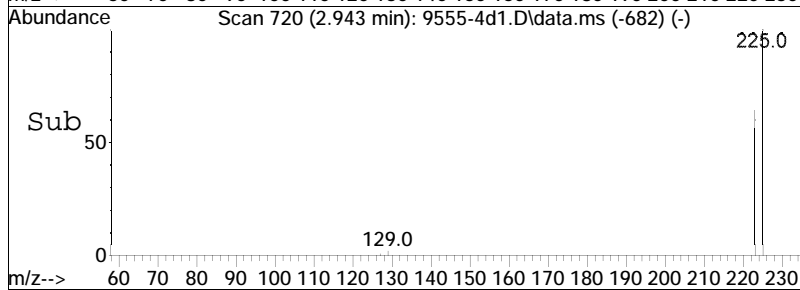
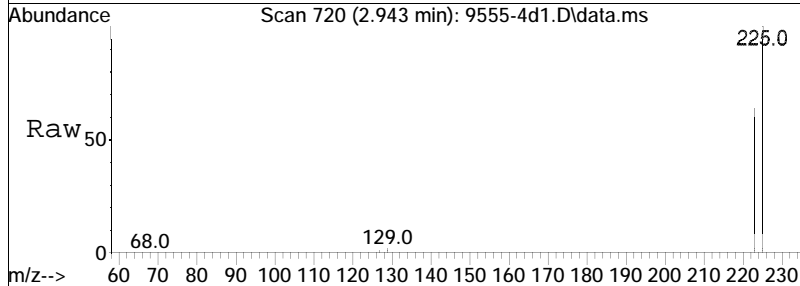
Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.4	10.8	16.2

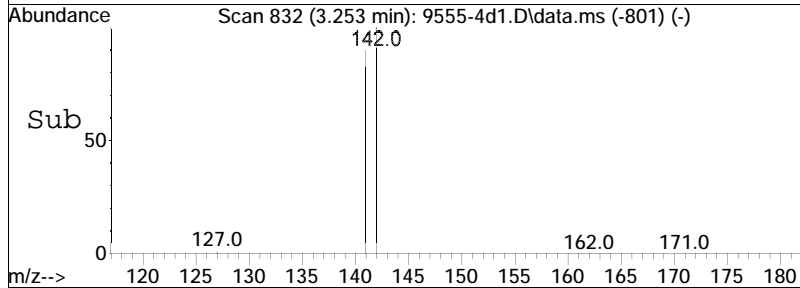
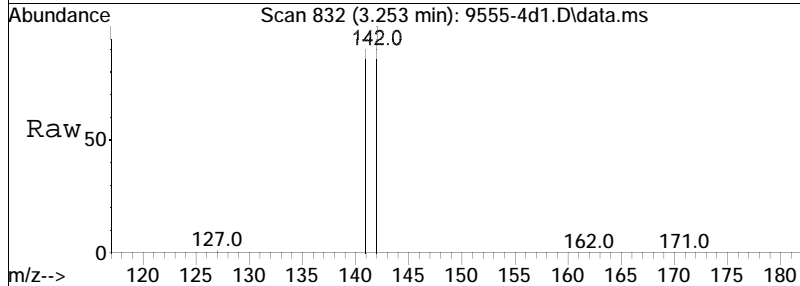
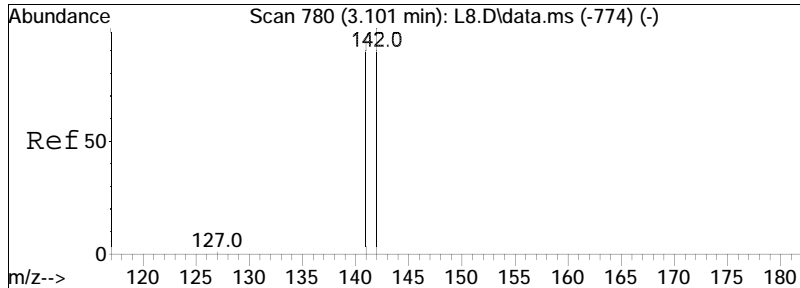




#10
 Hexachlorobutadiene
 Concen: 3.49 ug/ml
 RT: 2.943 min Scan# 720
 Delta R.T. 0.018 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

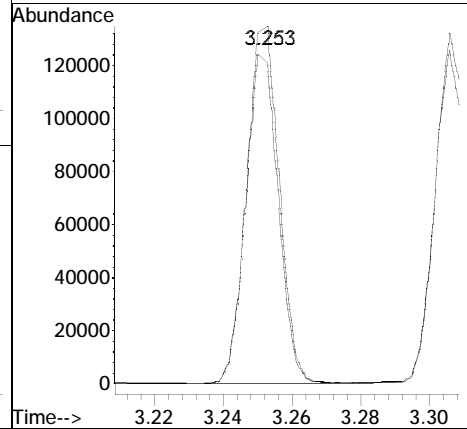
Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.4	75.6

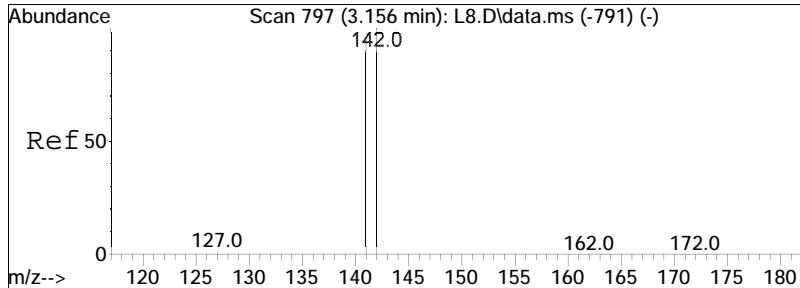




#11
 2-Methylnaphthalene
 Concen: 4.27 ug/ml
 RT: 3.253 min Scan# 832
 Delta R.T. 0.019 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

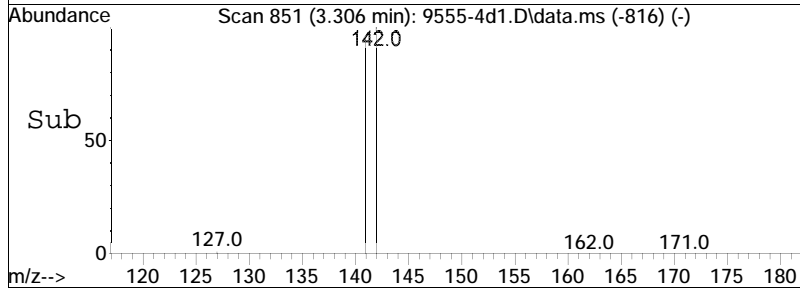
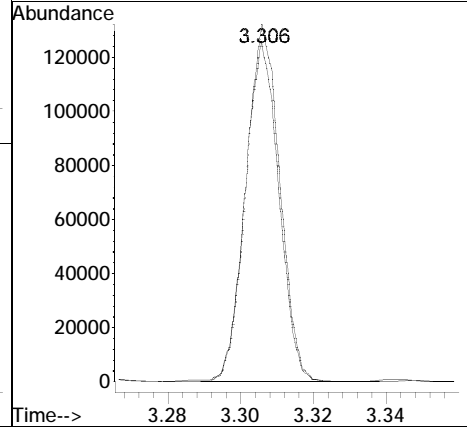
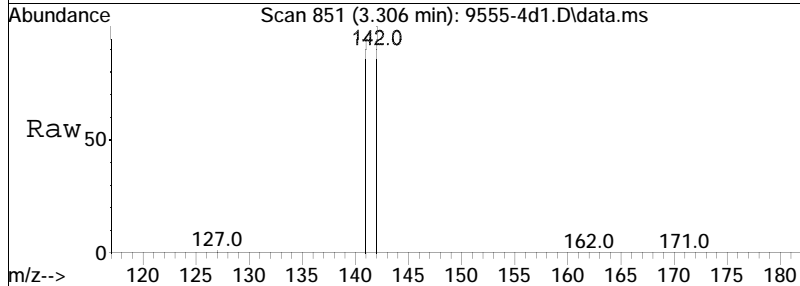
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.8	74.2	111.4

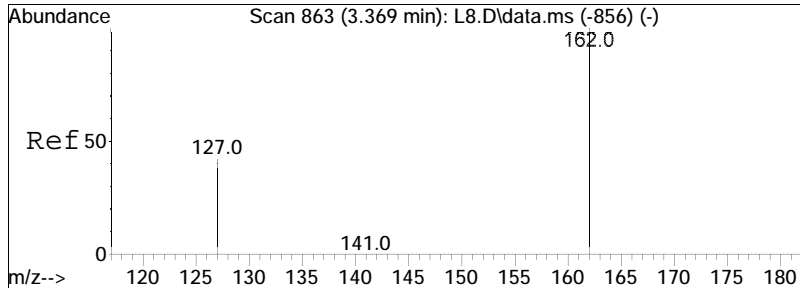




#12
 1-Methylnaphthalene
 Concen: 4.09 ug/ml
 RT: 3.306 min Scan# 851
 Delta R.T. 0.017 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

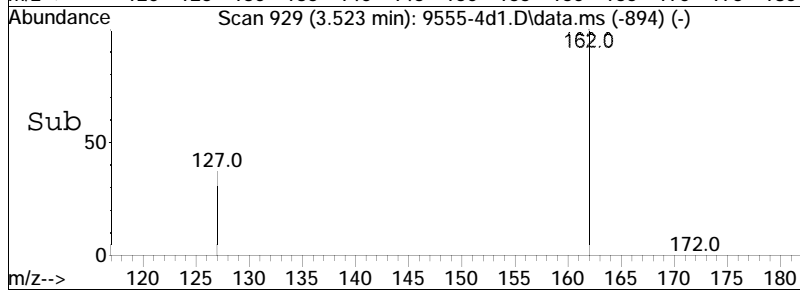
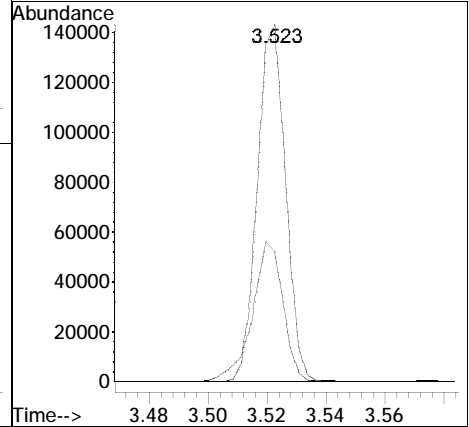
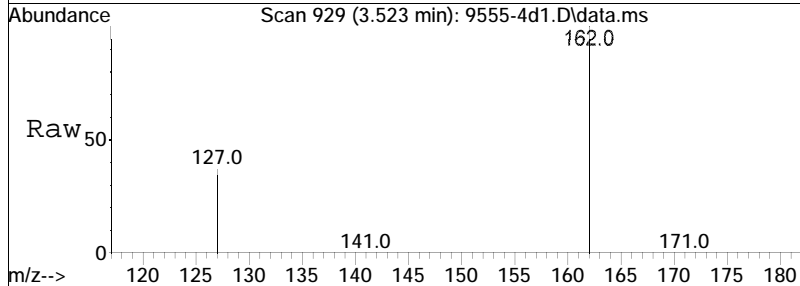
Tgt Ion	Ratio	Lower	Upper
142	100		
141	95.0	76.7	115.1

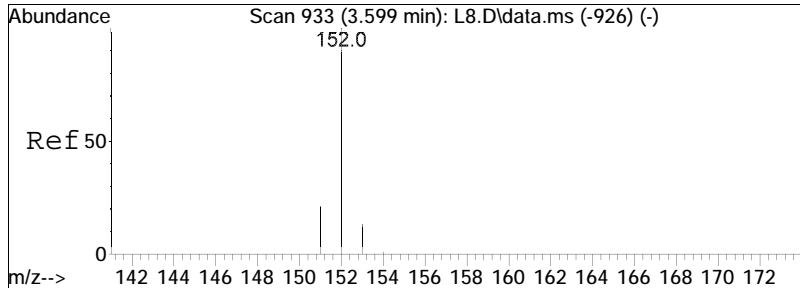




#14
 2-Chloronaphthalene
 Concen: 4.24 ug/ml
 RT: 3.523 min Scan# 929
 Delta R.T. 0.017 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

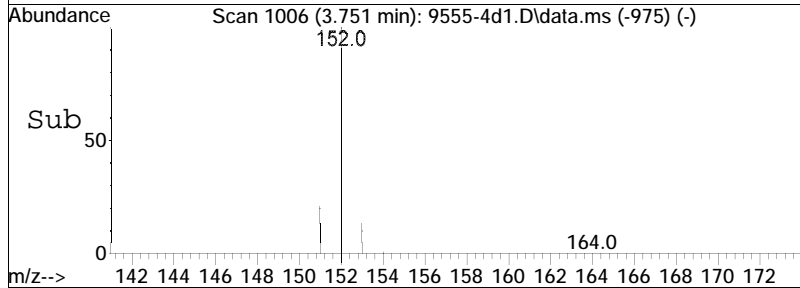
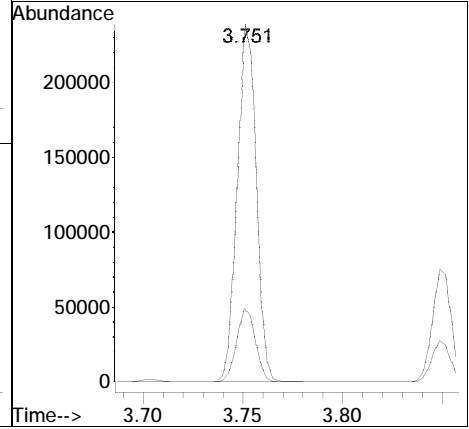
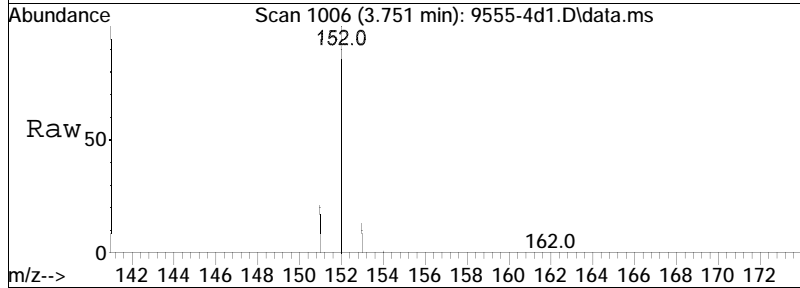
Tgt Ion	Resp	Lower	Upper
162	100		
127	42.9	31.5	47.3

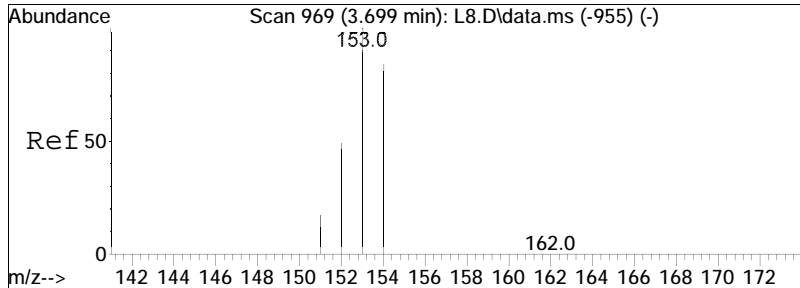




#15
 Acenaphthylene
 Concen: 4.95 ug/ml
 RT: 3.751 min Scan# 1006
 Delta R.T. 0.017 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

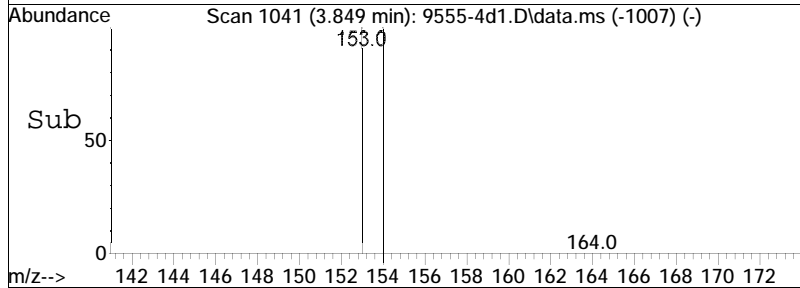
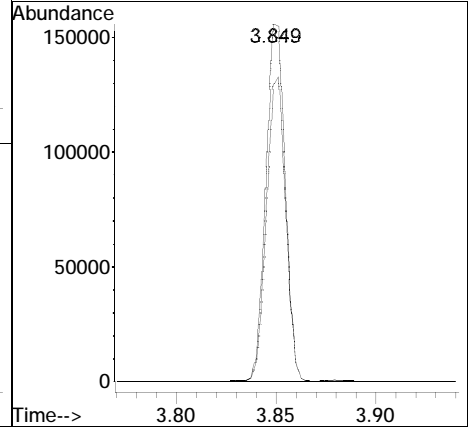
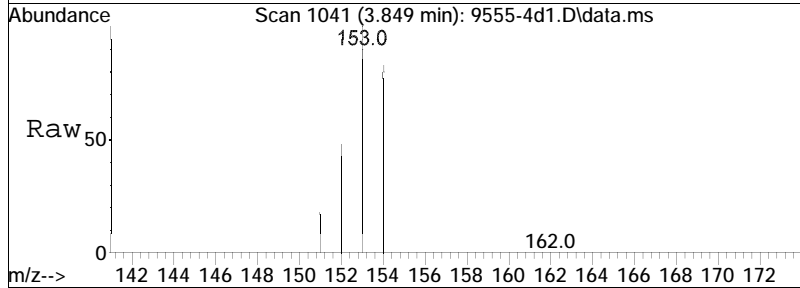
Tgt Ion	Resp	Lower	Upper
152	100		
151	20.3	16.3	24.5

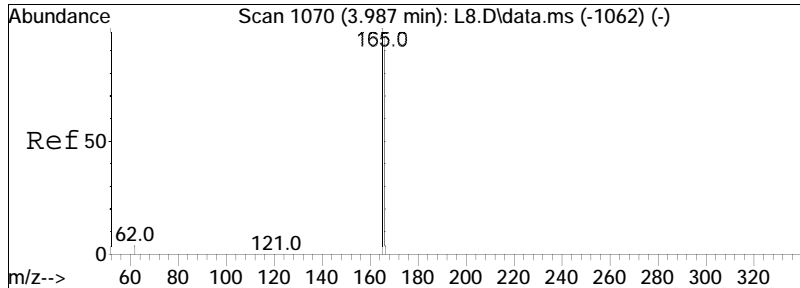




#17
 Acenaphthene
 Concen: 4.42 ug/ml
 RT: 3.849 min Scan# 1041
 Delta R.T. 0.014 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

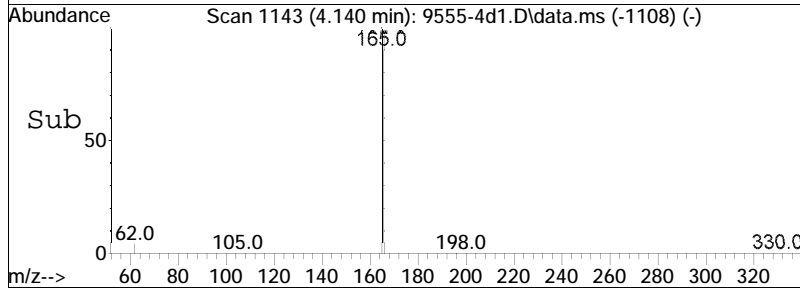
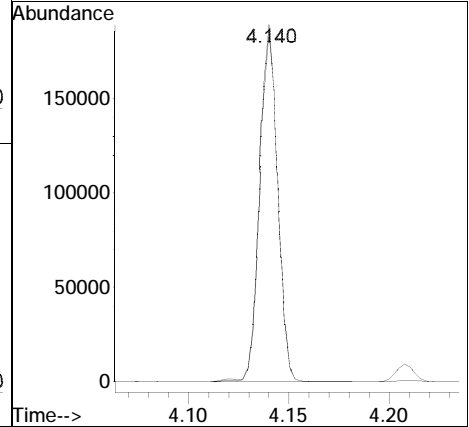
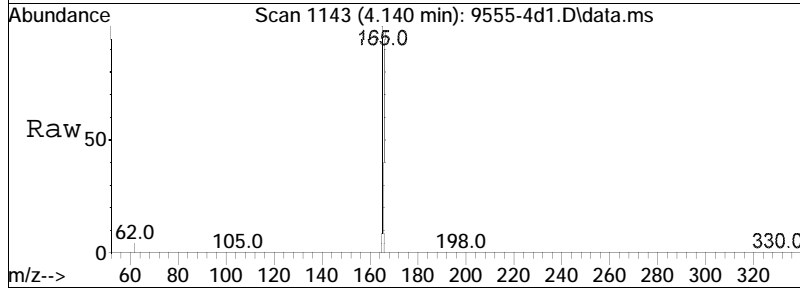
Tgt Ion	Resp	Lower	Upper
153	100		
154	84.6	70.8	106.2

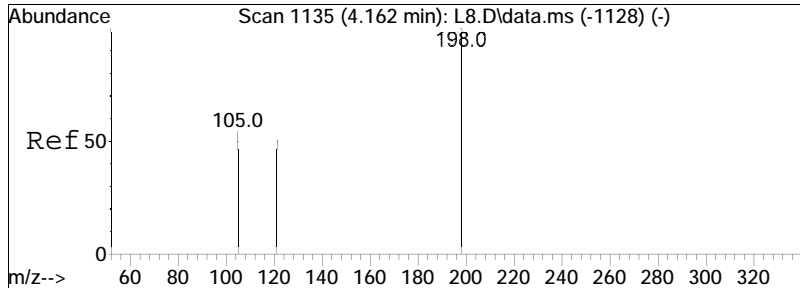




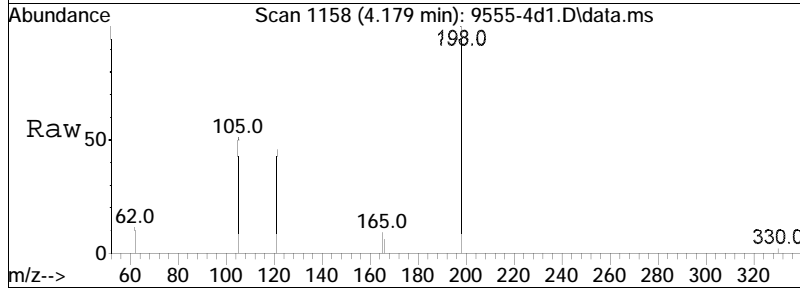
#18
 Fluorene
 Concen: 4.73 ug/ml
 RT: 4.140 min Scan# 1143
 Delta R.T. 0.013 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

Tgt Ion	Resp	Lower	Upper
166	115200		
165	102.6	82.2	123.2

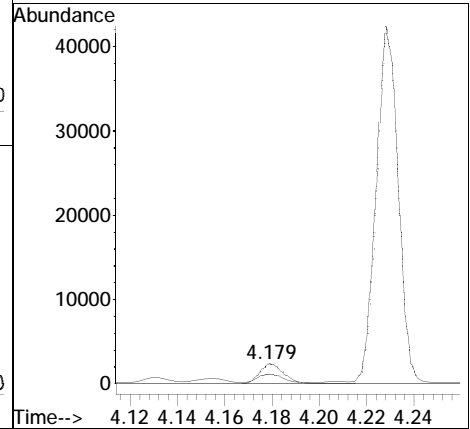
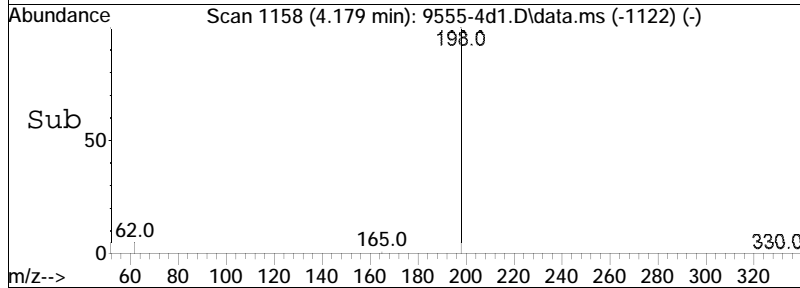


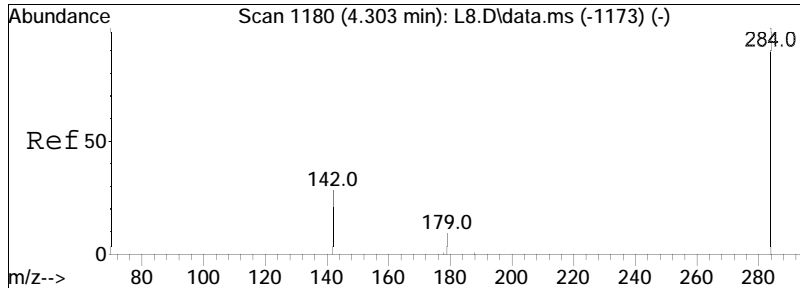


#21
 4,6-Dinitro-o-cresol
 Concen: 1.00 ug/ml
 RT: 4.179 min Scan# 1158
 Delta R.T. 0.013 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm



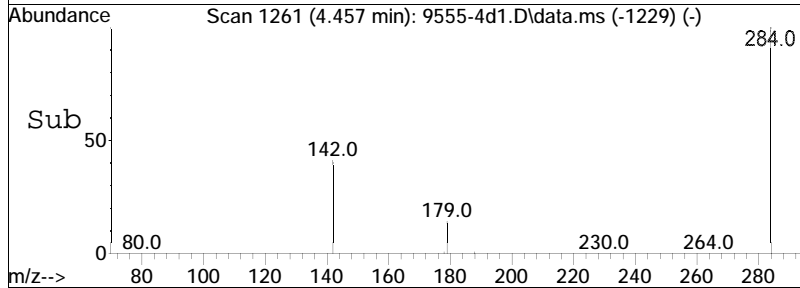
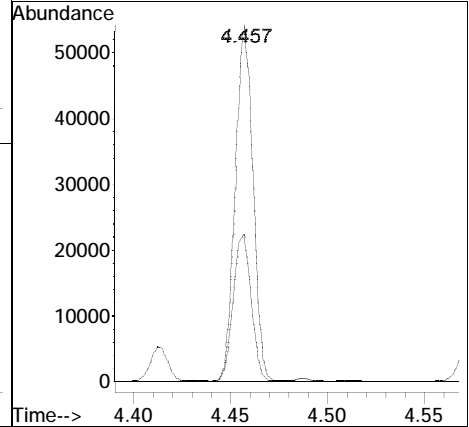
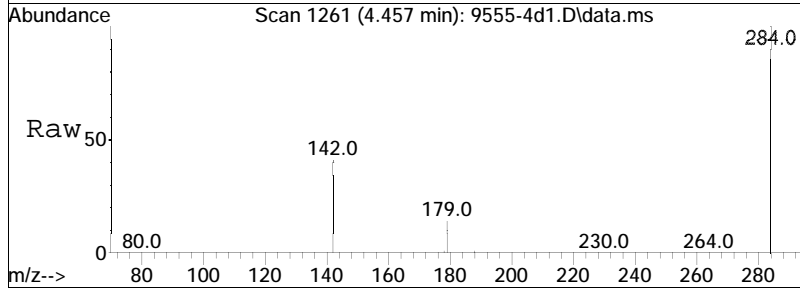
Tgt Ion	Resp	Lower	Upper
198	100		
105	39.6	37.7	56.5

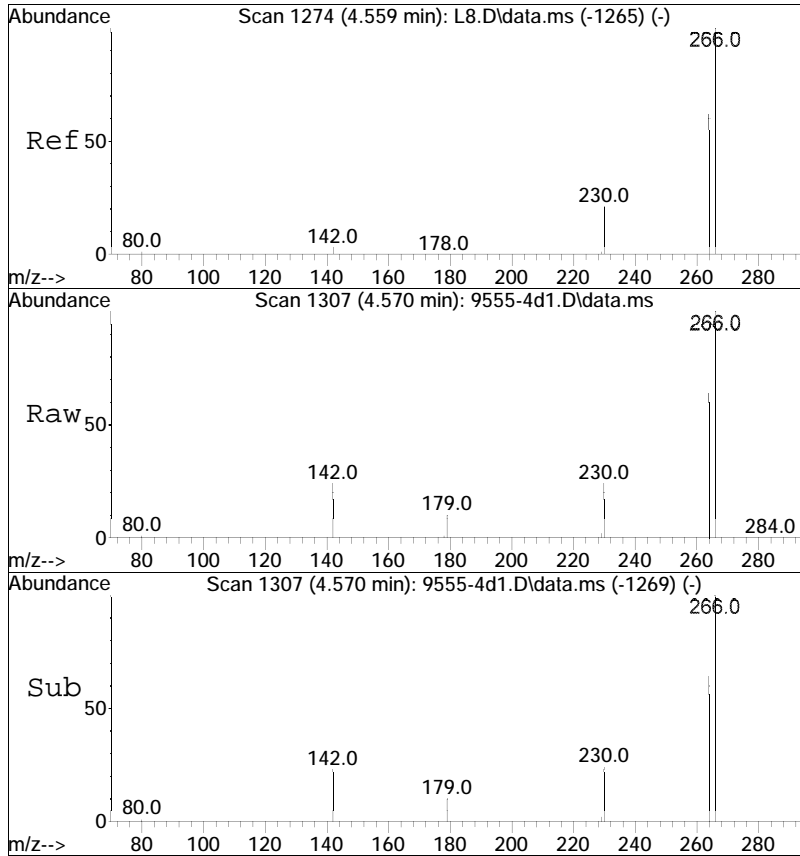




#22
 Hexachlorobenzene
 Concen: 3.76 ug/ml
 RT: 4.457 min Scan# 1261
 Delta R.T. 0.013 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

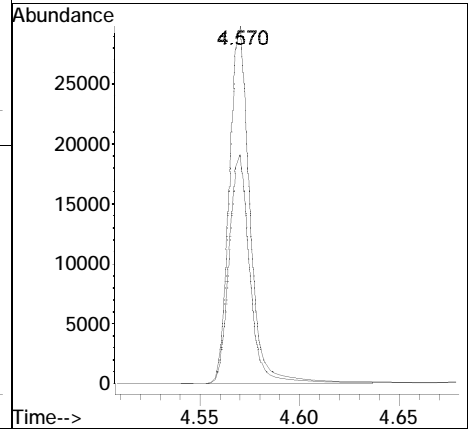
Tgt Ion: 284 Resp: 33801
 Ion Ratio Lower Upper
 284 100
 142 42.3 29.2 43.8

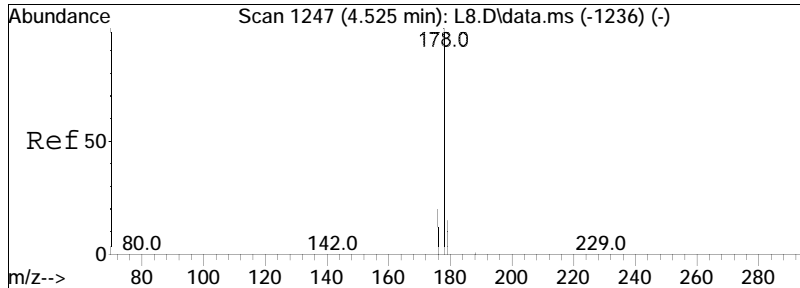




#23
 Pentachlorophenol
 Concen: 5.34 ug/ml
 RT: 4.570 min Scan# 1307
 Delta R.T. 0.013 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

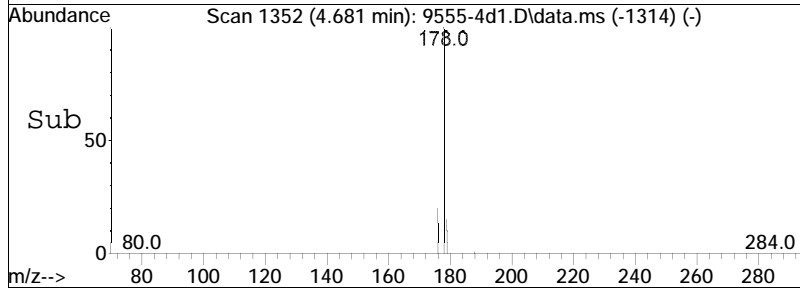
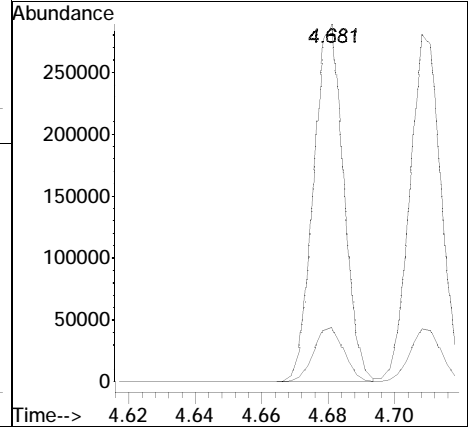
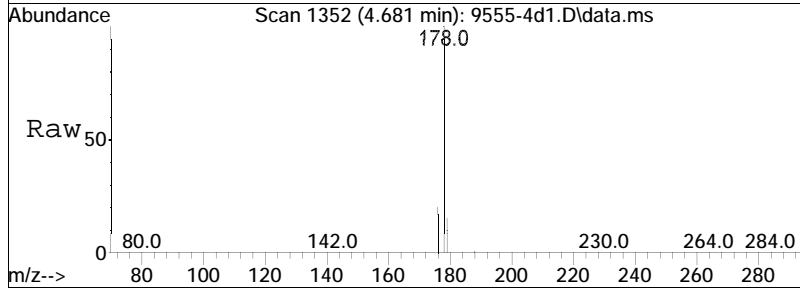
Tgt Ion	Resp	Lower	Upper
266	100		
264	64.6	50.6	76.0

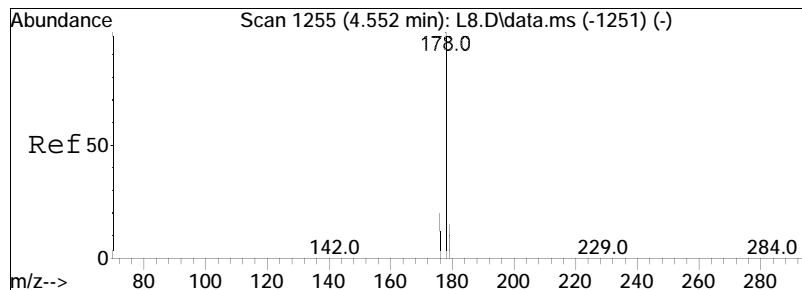




#24
 Phenanthrene
 Concen: 4.39 ug/ml
 RT: 4.681 min Scan# 1352
 Delta R.T. 0.013 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

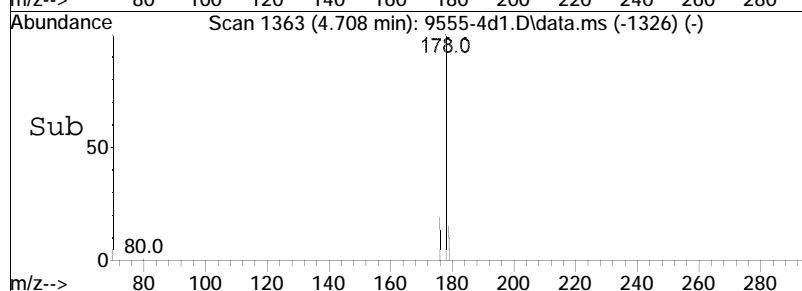
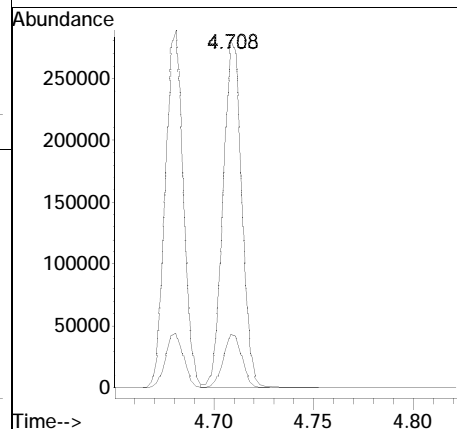
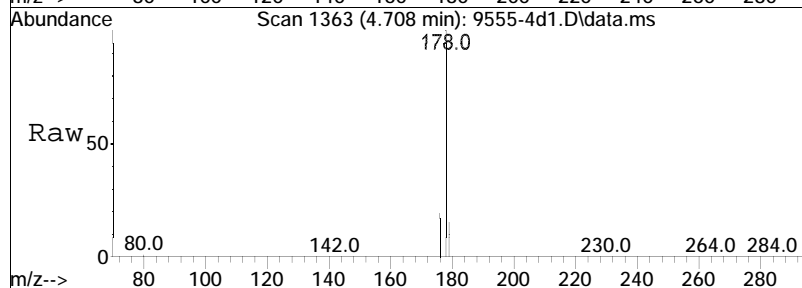
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.3	18.5

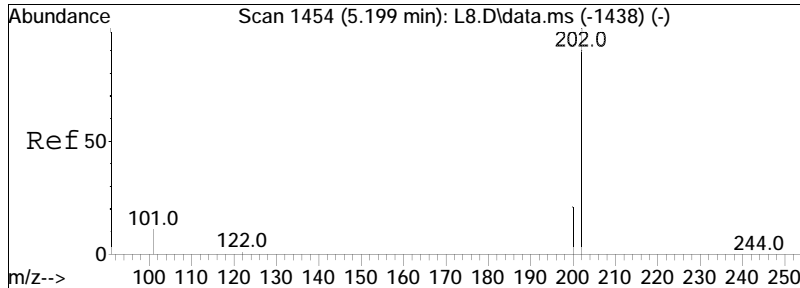




#25
 Anthracene
 Concen: 4.72 ug/ml
 RT: 4.708 min Scan# 1363
 Delta R.T. 0.010 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

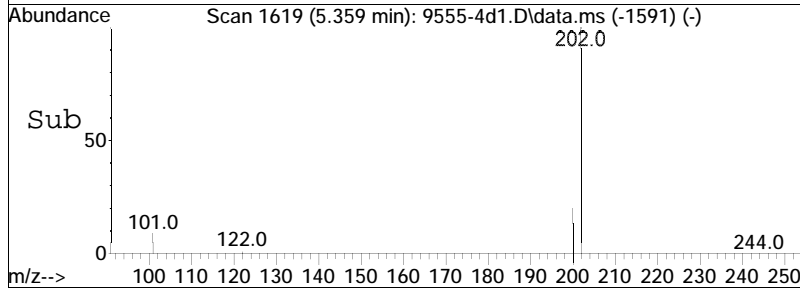
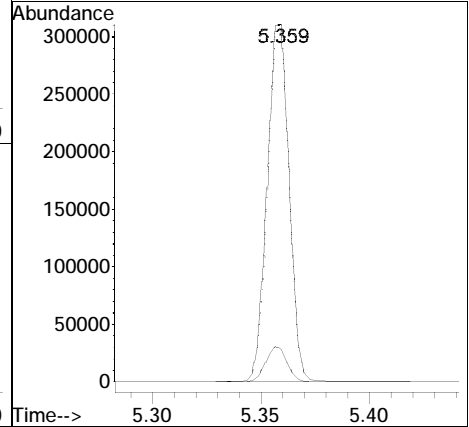
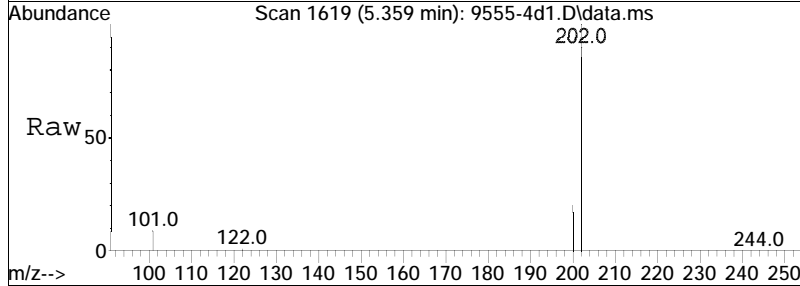
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.3	12.2	18.2

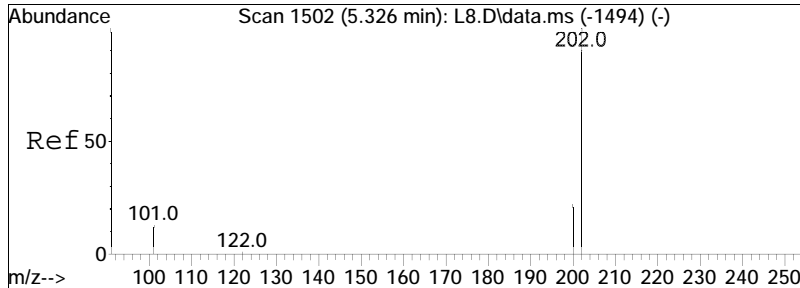




#27
 Fluoranthene
 Concen: 4.81 ug/ml
 RT: 5.359 min Scan# 1619
 Delta R.T. -0.005 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

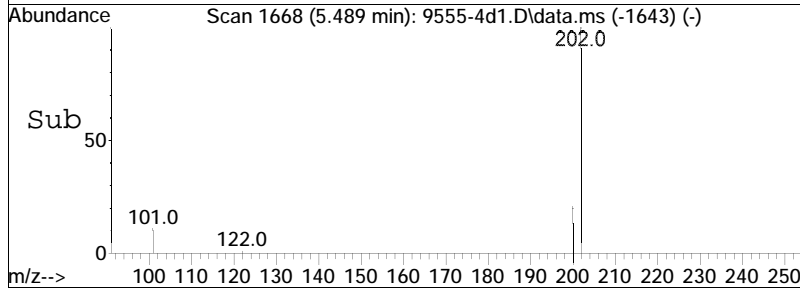
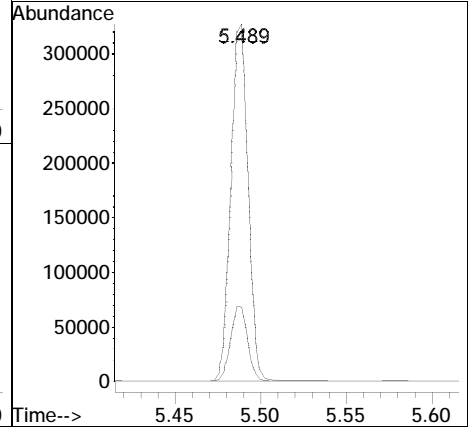
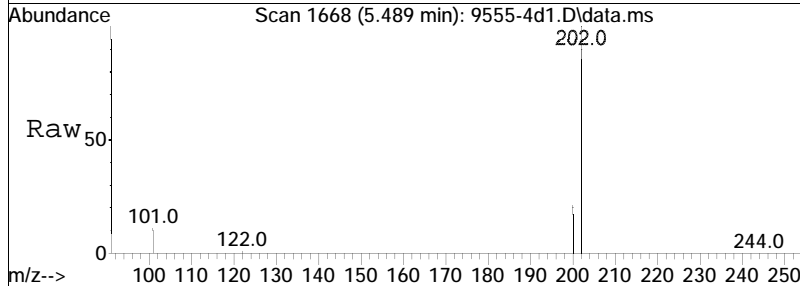
Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.6	9.3	13.9

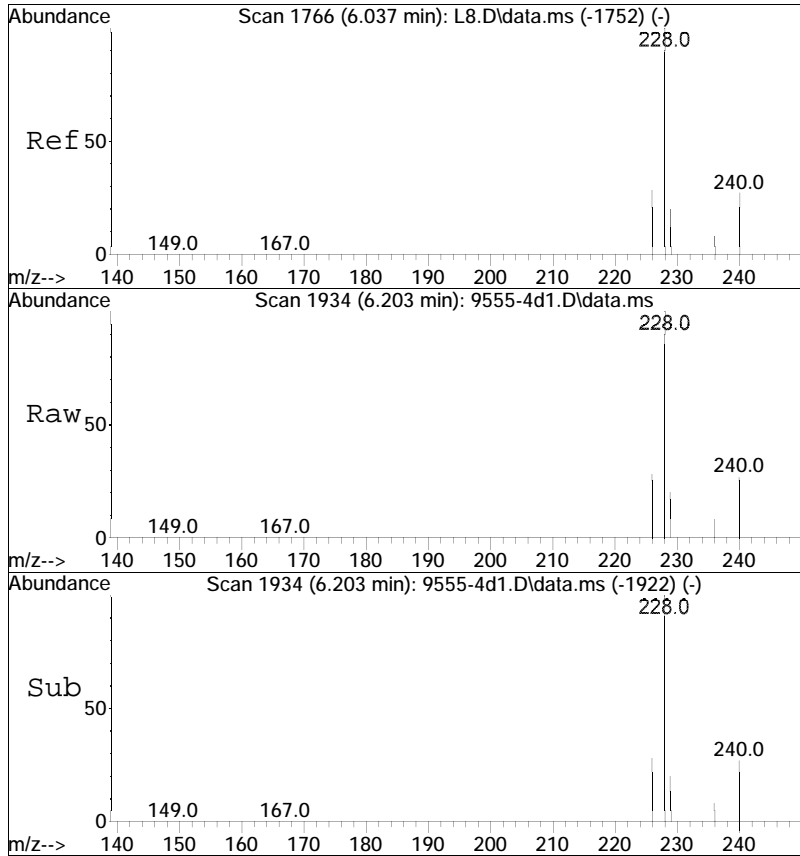




#28
 Pyrene
 Concen: 4.85 ug/ml
 RT: 5.489 min Scan# 1668
 Delta R.T. -0.013 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

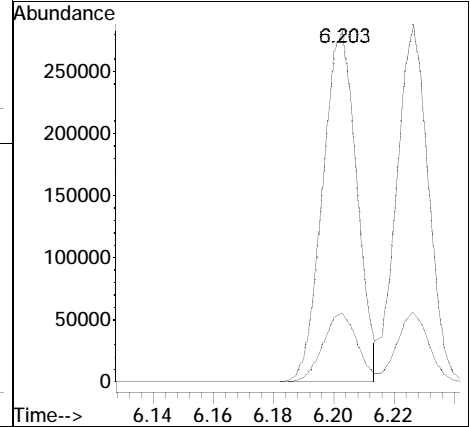
Tgt Ion	Resp	Lower	Upper
202	223898		
200	21.1	17.4	26.2

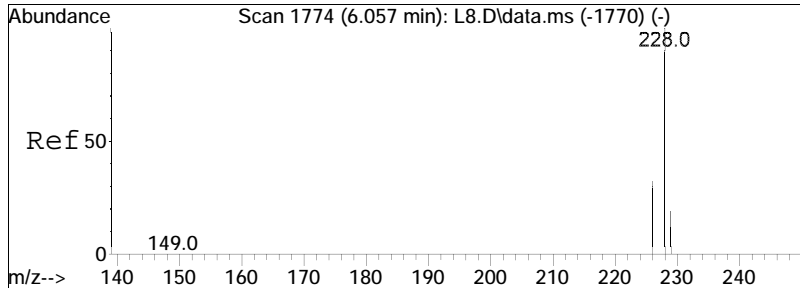




#31
 Benzo[a]anthracene
 Concen: 4.86 ug/ml
 RT: 6.203 min Scan# 1934
 Delta R.T. -0.049 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

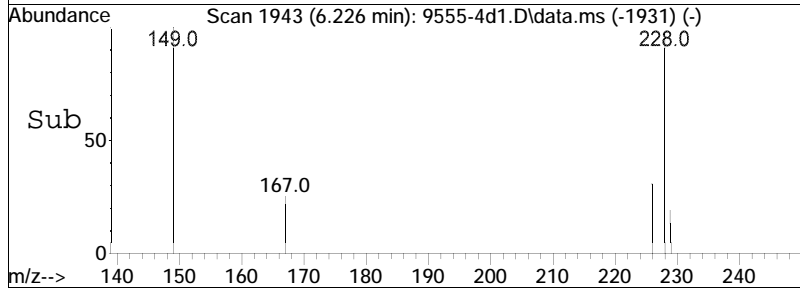
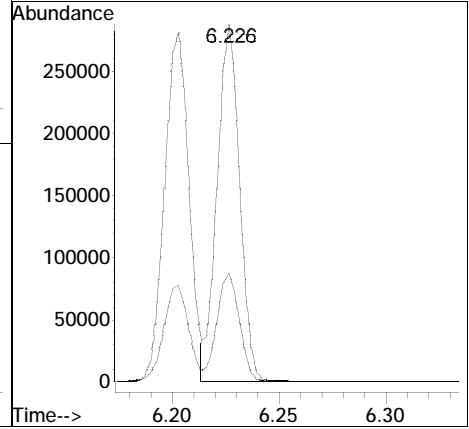
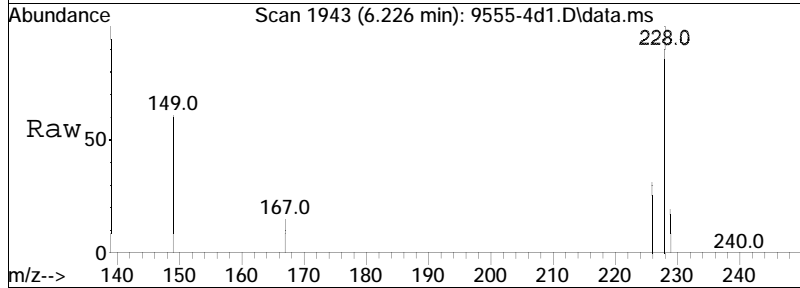
Tgt Ion	Resp	Lower	Upper
228	100		
229	19.5	15.6	23.4

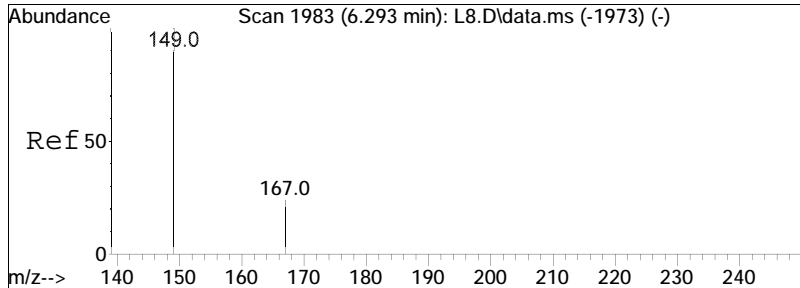




#32
 Chrysene
 Concen: 4.35 ug/ml
 RT: 6.226 min Scan# 1943
 Delta R.T. -0.049 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

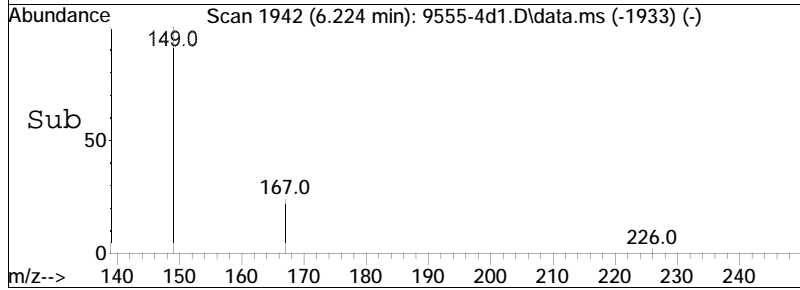
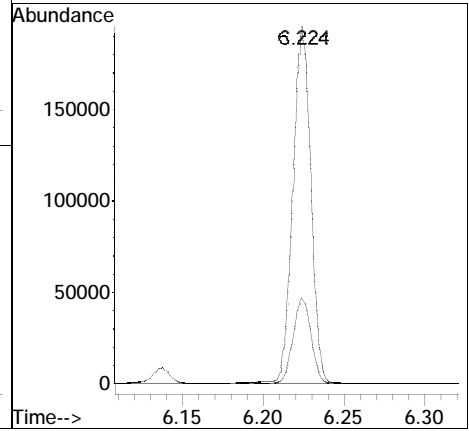
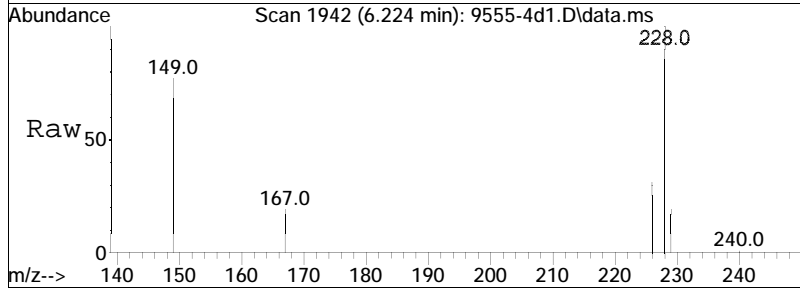
Tgt Ion	Resp	Lower	Upper
228	100		
226	30.5	24.9	37.3

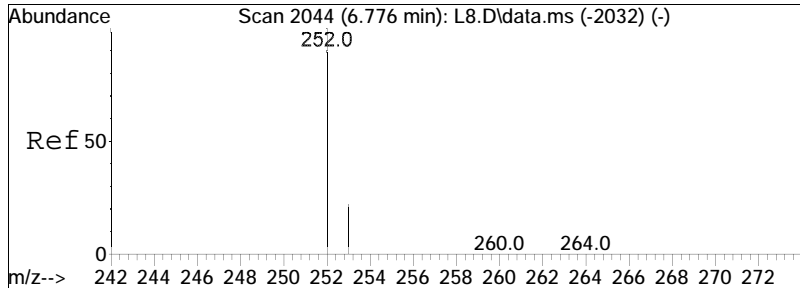




#33
 Bis(2-ethylhexyl)phthalate
 Concen: 6.42 ug/ml
 RT: 6.224 min Scan# 1942
 Delta R.T. -0.057 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

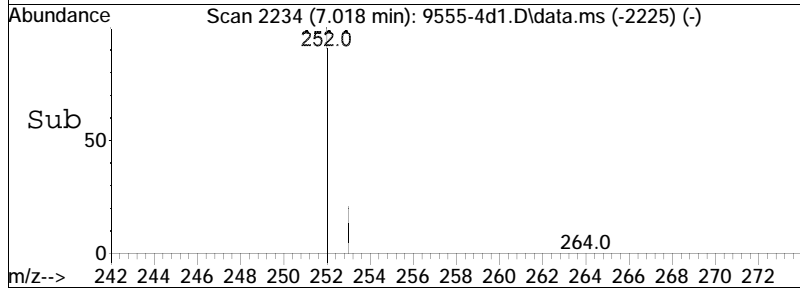
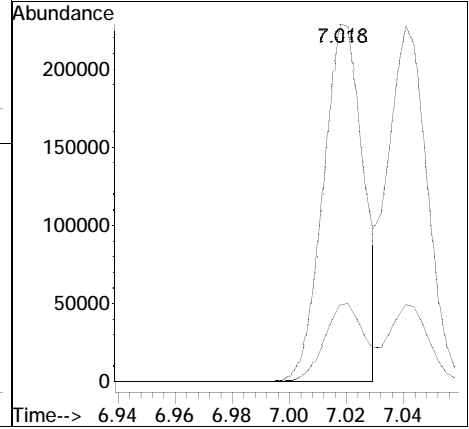
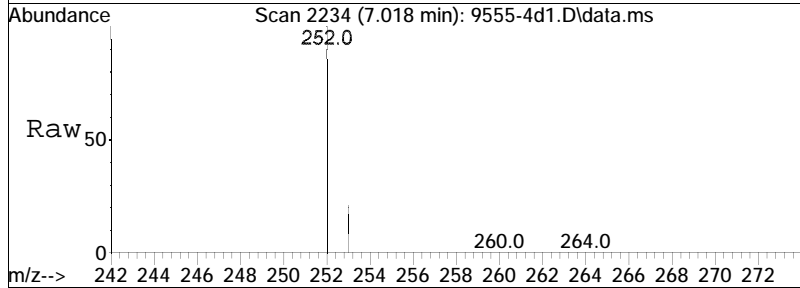
Tgt Ion	Resp	Lower	Upper
149	100		
167	24.1	18.2	27.2

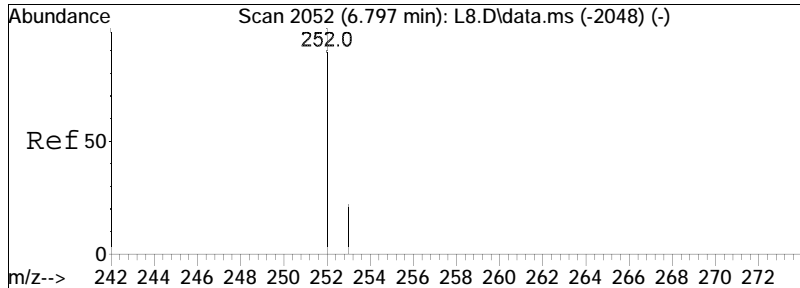




#35
 Benzo[b]fluoranthene
 Concen: 4.61 ug/ml
 RT: 7.018 min Scan# 2234
 Delta R.T. -0.054 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

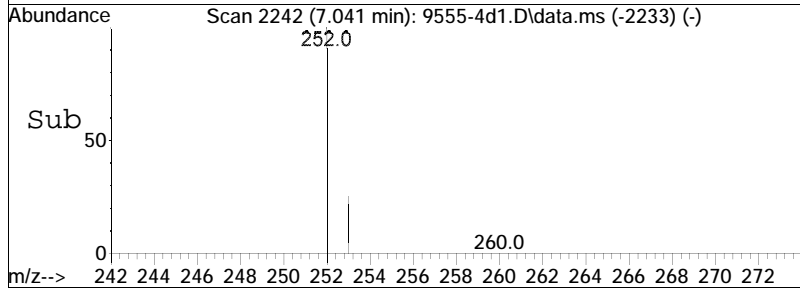
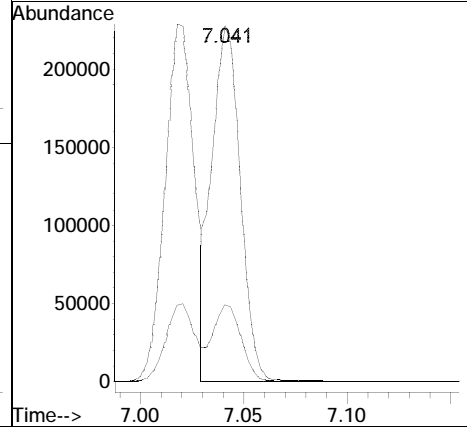
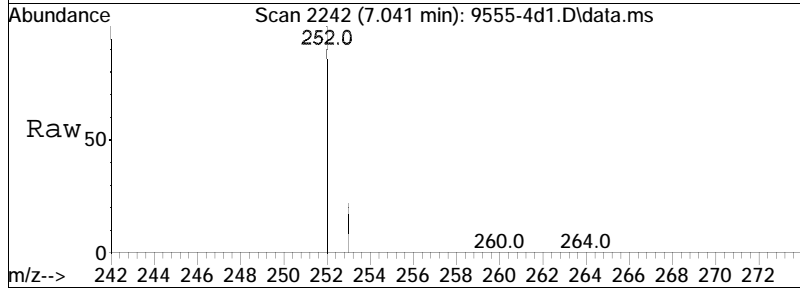
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.5	17.2	25.8

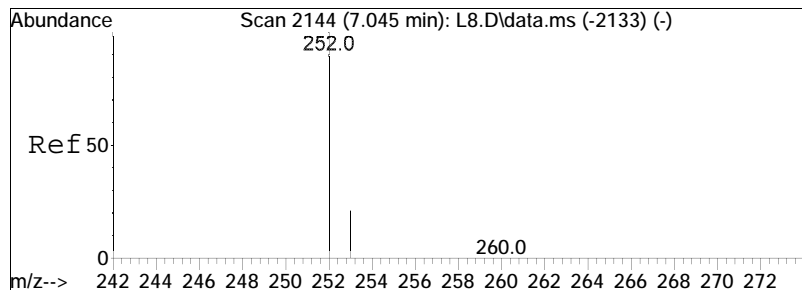




#36
 Benzo[k]fluoranthene
 Concen: 4.57 ug/ml
 RT: 7.041 min Scan# 2242
 Delta R.T. -0.054 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

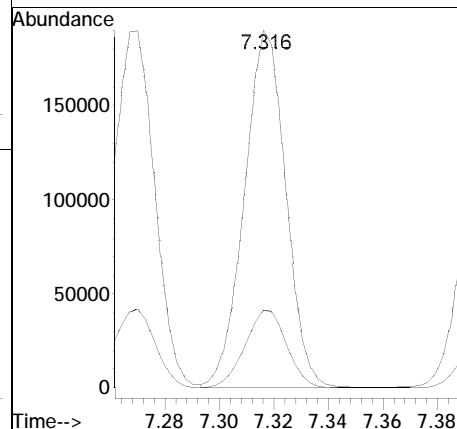
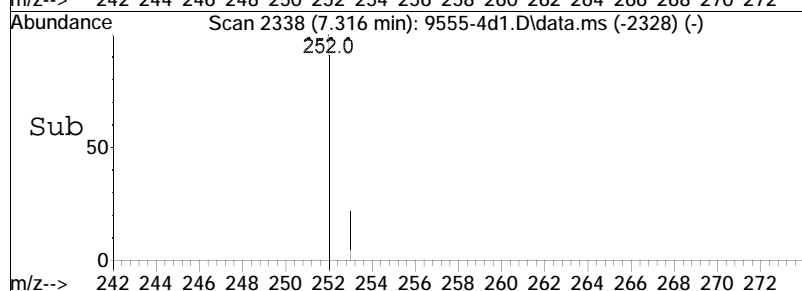
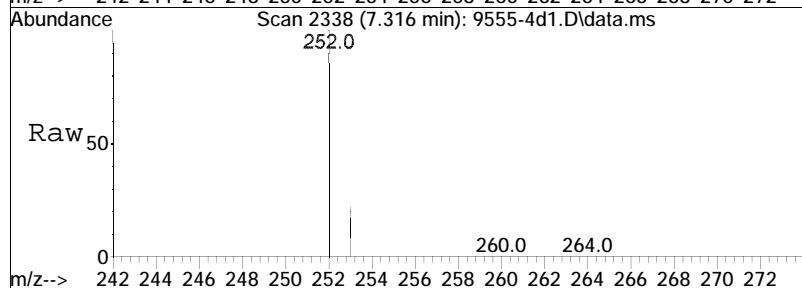
Tgt Ion	Resp	Lower	Upper
252	100		
253	22.0	17.4	26.0

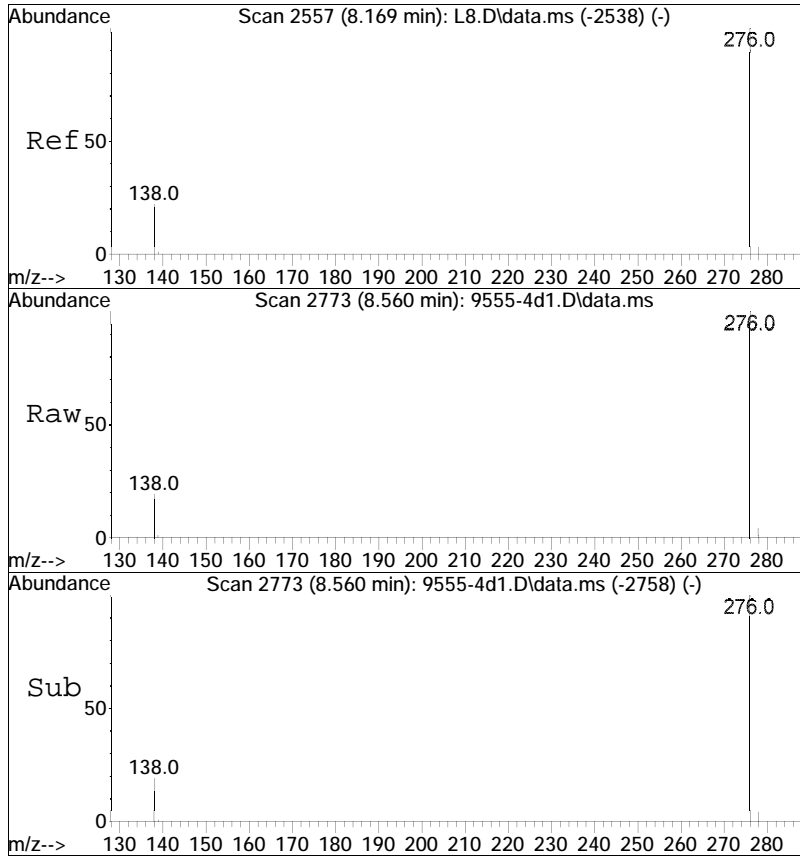




#37
 Benzo[a]pyrene
 Concen: 5.04 ug/ml
 RT: 7.316 min Scan# 2338
 Delta R.T. -0.051 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

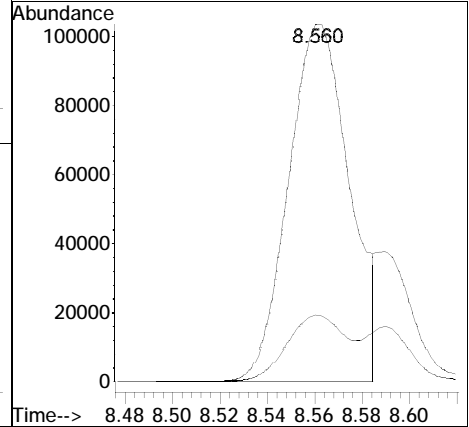
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.8	16.8	25.2

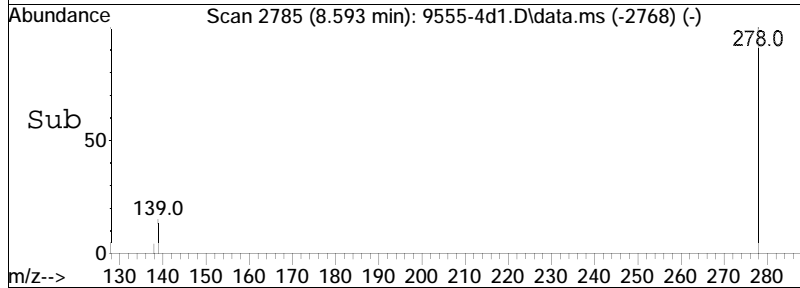
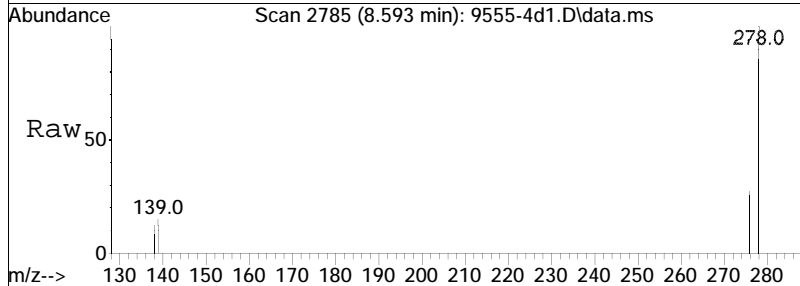
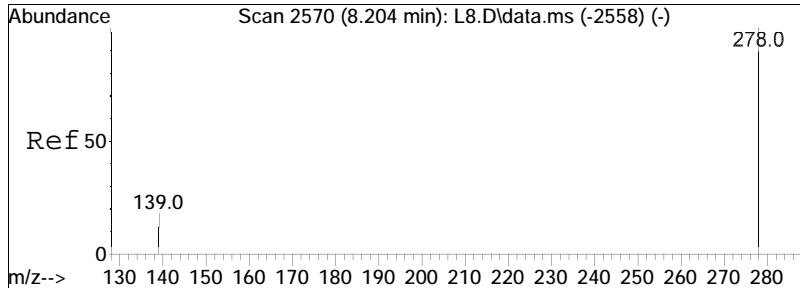




#38
 Indeno[1,2,3-cd]pyrene
 Concen: 5.05 ug/ml
 RT: 8.560 min Scan# 2773
 Delta R.T. -0.040 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

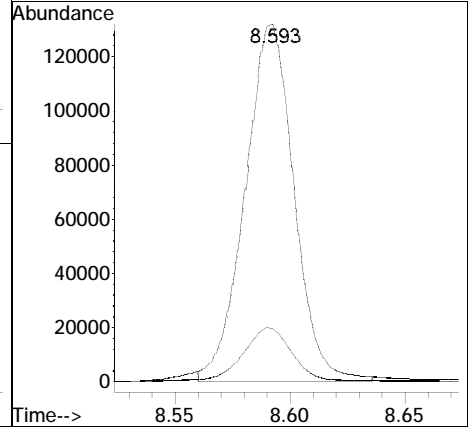
Tgt Ion	Resp	Lower	Upper
276	184521		
138	17.5	17.9	26.9#

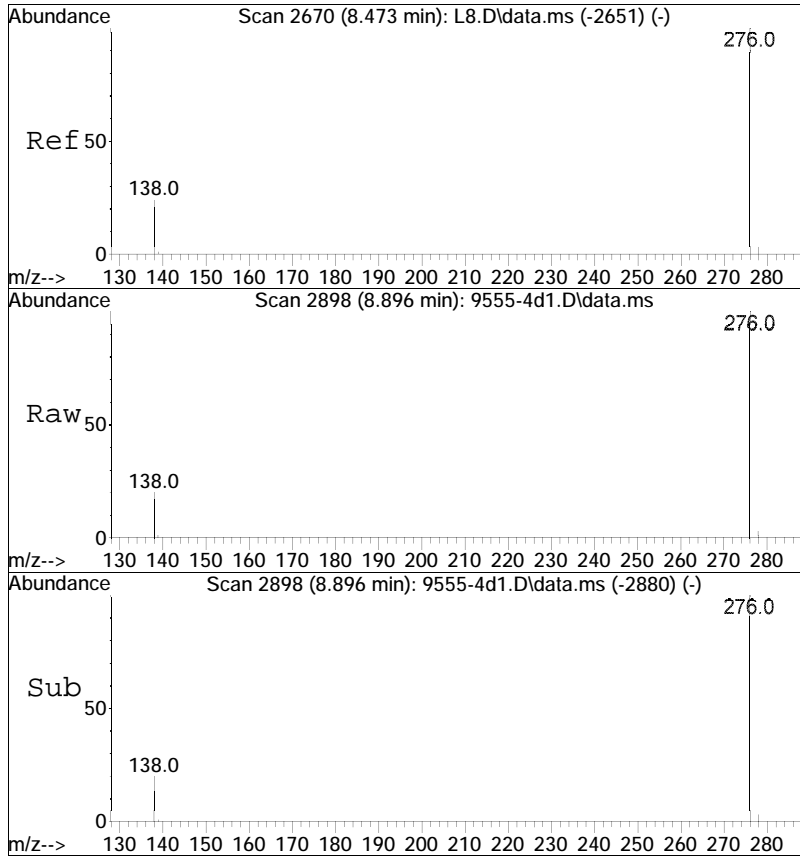




#39
 Dibenzo[a,h]anthracene
 Concen: 4.63 ug/ml M6
 RT: 8.593 min Scan# 2785
 Delta R.T. -0.034 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

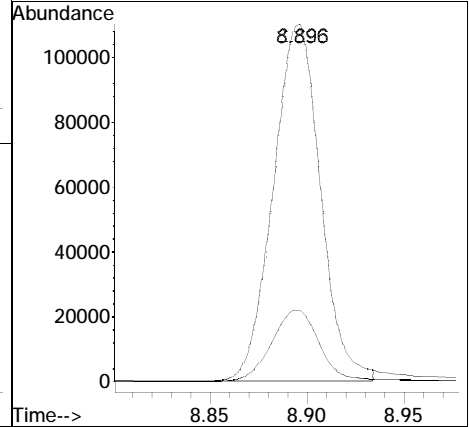
Tgt Ion	Resp	Lower	Upper
278	100		
139	15.2	15.9	23.9#





#40
 Benzo[g,h,i]perylene
 Concen: 3.97 ug/ml
 RT: 8.896 min Scan# 2898
 Delta R.T. -0.032 min
 Lab File: 9555-4d1.D
 Acq: 08 Aug 2023 02:56 pm

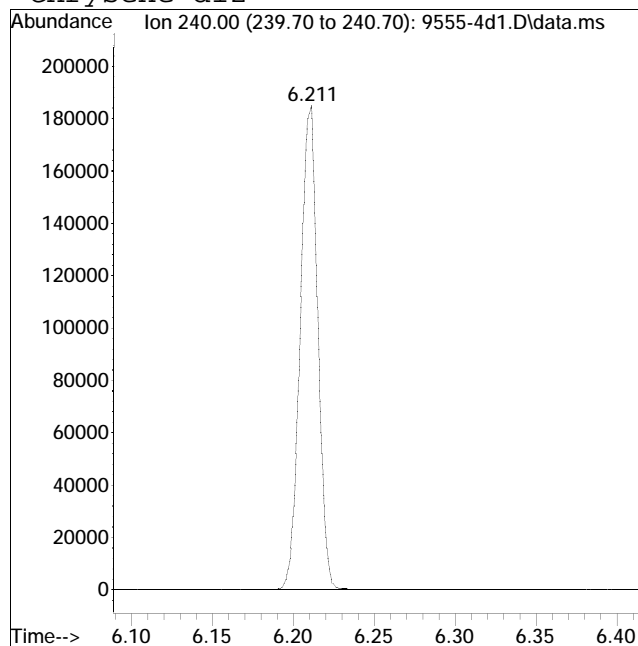
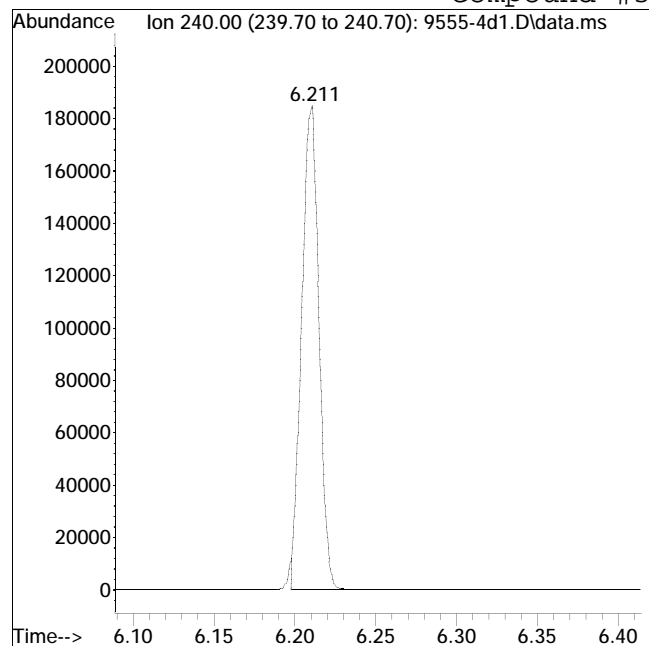
Tgt Ion	Resp	Lower	Upper
276	184015		
138	20.2	20.1	30.1



Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 9555-4d1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 2:56 pm Instrument : SV120
Sample : Wg1809555-4,32,5,RV,TIC Quant Date : 8/8/2023 3:09 pm

Compound #30: Chrysene-d12



Original Peak Response = 137164

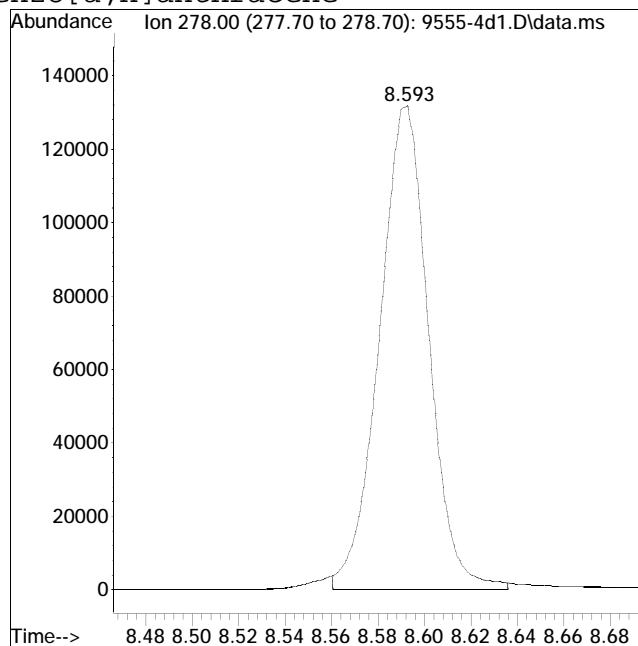
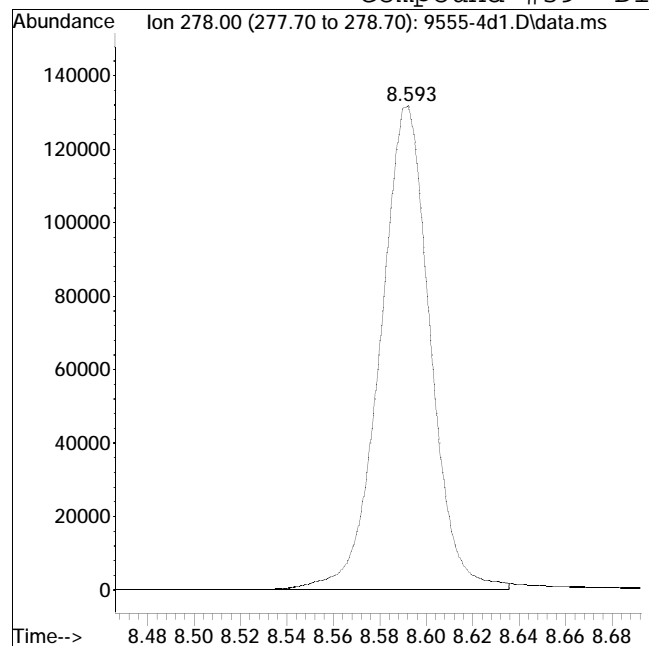
Manual Peak Response = 140825 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 9555-4d1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 2:56 pm Instrument : SV120
Sample : Wg1809555-4,32,5,RV,TIC Quant Date : 8/8/2023 3:09 pm

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 196524

Manual Peak Response = 194387 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 9555-6d1.D
 Acq On : 08 Aug 2023 03:29 pm
 Operator : SV120:jjw
 Sample : Wg1809555-6,32,5,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 09 09:16:44 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230808ST\ccv0808.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.204	152	25716	4.000	ug/ml	0.03
Standard Area 1 = 25900			Recovery =	99.29%		
8) Naphthalene-d8	2.863	136	112484	4.000	ug/ml	0.02
Standard Area 1 = 96934			Recovery =	116.04%		
16) Acenaphthene-d10	3.833	164	59094	4.000	ug/ml	0.01
Standard Area 1 = 51703			Recovery =	114.30%		
20) Phenanthrene-d10	4.667	188	135824	4.000	ug/ml	0.01
Standard Area 1 = 107414			Recovery =	126.45%		
30) Chrysene-d12	6.209	240	131310M1	4.000	ug/ml	-0.05
Standard Area 1 = 96547			Recovery =	136.01%		
34) Perylene-d12	7.374	264	148339	4.000	ug/ml	-0.05
Standard Area 1 = 119148			Recovery =	124.50%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.610	112	29834	4.476	ug/ml	0.03
Spiked Amount 50.000	Range 15 - 110		Recovery =	8.95%#		
3) Phenol-d6	2.023	99	25890	3.144	ug/ml	0.03
Spiked Amount 50.000	Range 15 - 110		Recovery =	6.29%#		
7) Nitrobenzene-d5	2.486	82	25114M3	3.866	ug/ml	0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	15.46%#		
13) 2-Fluorobiphenyl	3.457	172	66533	2.993	ug/ml	0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	11.97%#		
19) 2,4,6-Tribromophenol	4.278	330	12191	4.513	ug/ml	0.01
Spiked Amount 50.000	Range 15 - 110		Recovery =	9.03%#		
26) O-Terphenyl-MS	0.000	230	0d	0.000	ug/ml	
Spiked Amount 20.000	Range 40 - 140		Recovery =	0.00%#		
29) 4-Terphenyl-d14	5.579	244	97288	3.491	ug/ml	-0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	13.96%#		
Target Compounds						
4) Hexachloroethane	2.460	117	11015M3	3.549	ug/ml	
9) Naphthalene	2.874	128	117505	4.057	ug/ml	100
10) Hexachlorobutadiene	2.944	225	20834	3.840	ug/ml	100
11) 2-Methylnaphthalene	3.251	142	81843	4.500	ug/ml	99
14) 2-Chloronaphthalene	3.521	162	85754	4.458	ug/ml	94
15) Acenaphthylene	3.752	152	145619	5.260	ug/ml	100
17) Acenaphthene	3.849	153	94339	4.683	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 9555-6d1.D
 Acq On : 08 Aug 2023 03:29 pm
 Operator : SV120:jjw
 Sample : Wg1809555-6,32,5,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 09 09:16:44 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230808ST\ccv0808.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Fluorene	4.141	166	107496	5.069	ug/ml	99
22) Hexachlorobenzene	4.455	284	31628	3.898	ug/ml	90
23) Pentachlorophenol	4.569	266	21549	6.045	ug/ml	99
24) Phenanthrene	4.680	178	172790	4.628	ug/ml	100
25) Anthracene	4.709	178	178669	5.098	ug/ml	100
27) Fluoranthene	5.357	202	209494	5.221	ug/ml	95
28) Pyrene	5.487	202	221004	5.303	ug/ml	99
31) Benzo[a]anthracene	6.201	228	226007	5.286	ug/ml	100
32) Chrysene	6.224	228	202685	4.513	ug/ml	99
35) Benzo[b]fluoranthene	7.018	252	216722	4.810	ug/ml	100
36) Benzo[k]fluoranthene	7.041	252	214600	4.873	ug/ml	100
37) Benzo[a]pyrene	7.316	252	200850	5.473	ug/ml	99
38) Indeno[1,2,3-cd]pyrene	8.560	276	181714M6	5.344	ug/ml	
39) Dibenzo[a,h]anthracene	8.587	278	190166M6	4.871	ug/ml	
40) Benzo[g,h,i]perylene	8.896	276	185138M1	4.291	ug/ml	

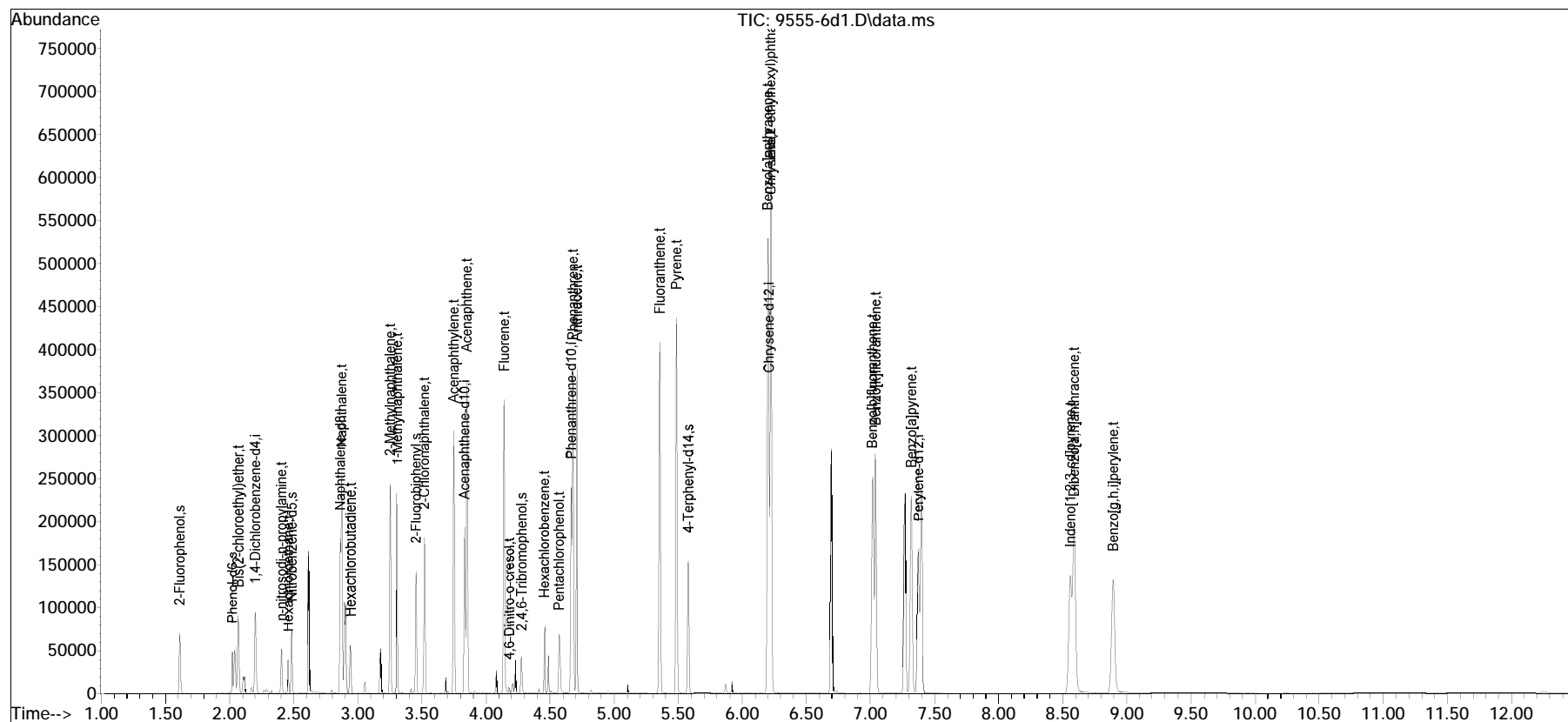
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

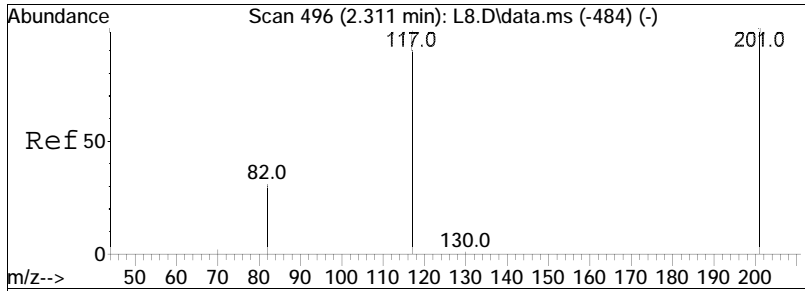
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 9555-6d1.D
 Acq On : 08 Aug 2023 03:29 pm
 Operator : SV120:jjw
 Sample : Wg1809555-6,32,5,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 09 09:16:44 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

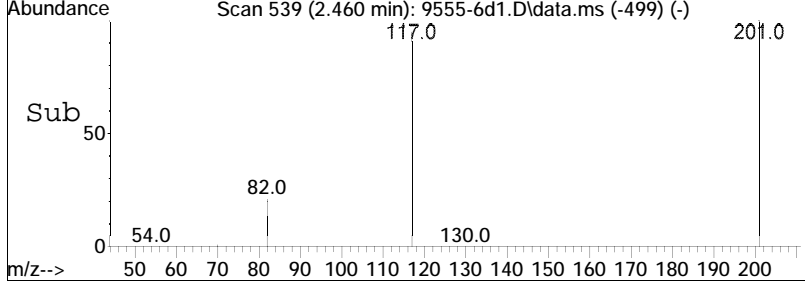
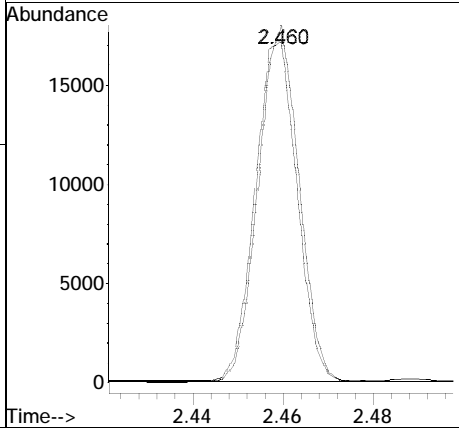
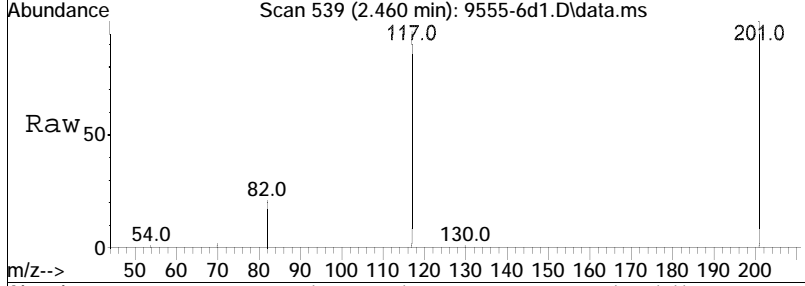
Sub List : DEFAULT - All compounds listedccv0808.D•

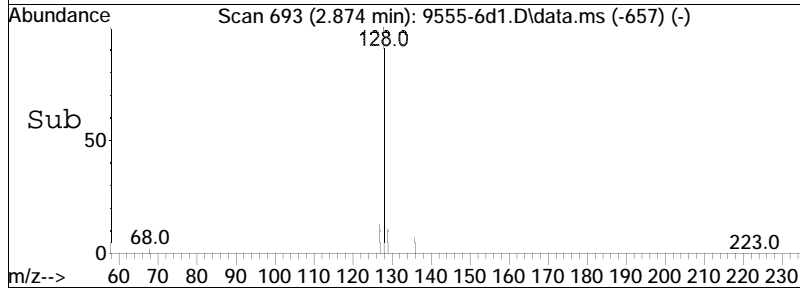
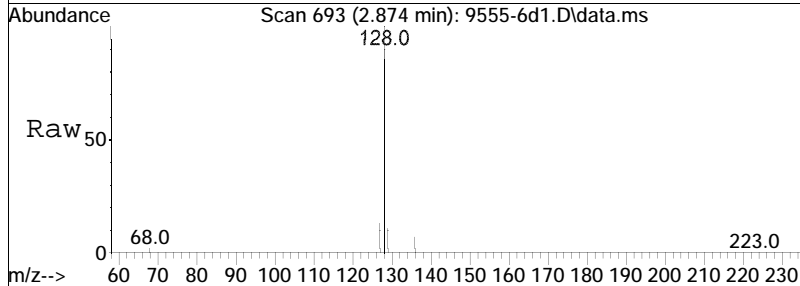
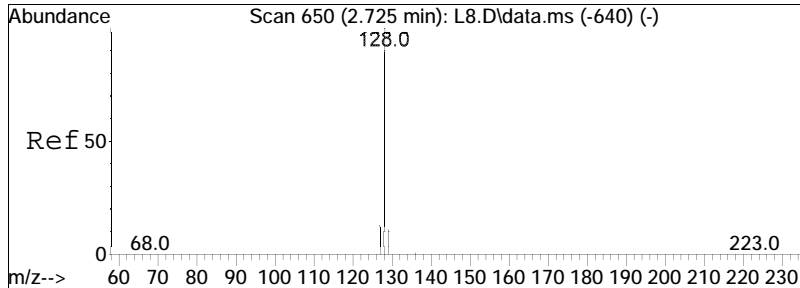




#4
 Hexachloroethane
 Concen: 3.55 ug/ml M3
 RT: 2.460 min Scan# 539
 Delta R.T. 0.024 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

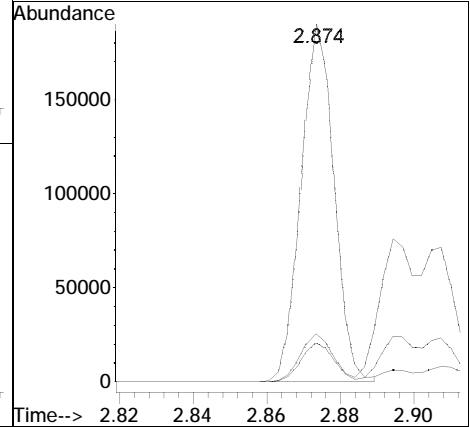
Tgt Ion: 117 Resp: 11015
 Ion Ratio Lower Upper
 117 100
 201 103.5 77.1 115.7

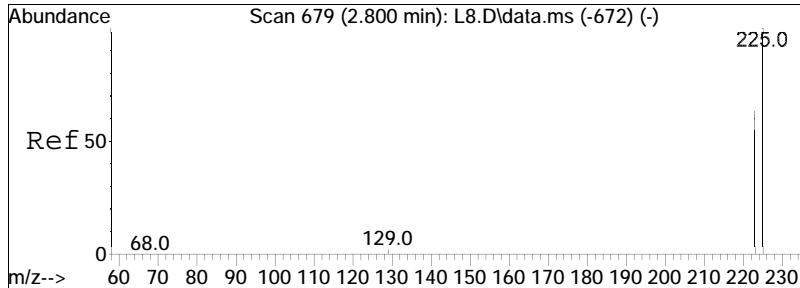




#9
 Naphthalene
 Concen: 4.06 ug/ml
 RT: 2.874 min Scan# 693
 Delta R.T. 0.021 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

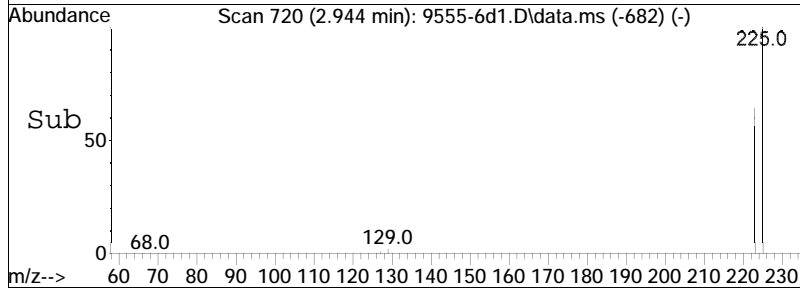
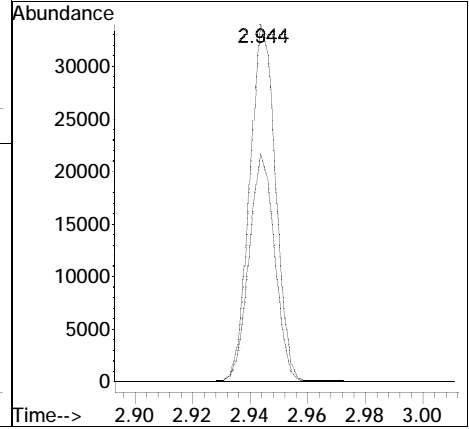
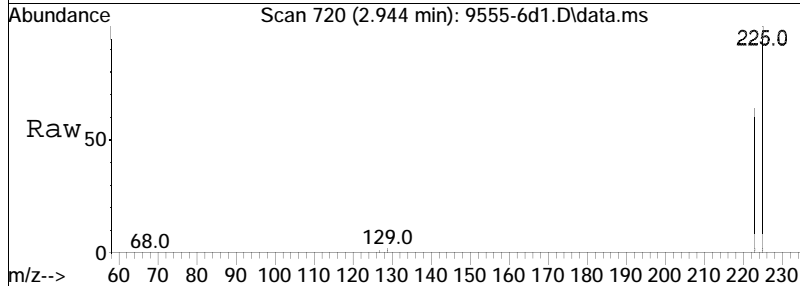
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	117505		
129	10.9		8.7	13.1
127	13.4		10.8	16.2

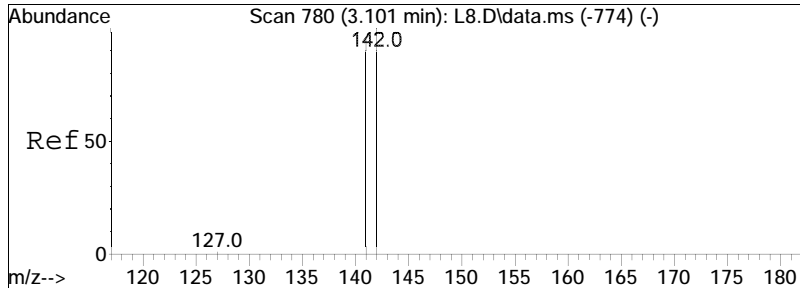




#10
 Hexachlorobutadiene
 Concen: 3.84 ug/ml
 RT: 2.944 min Scan# 720
 Delta R.T. 0.019 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

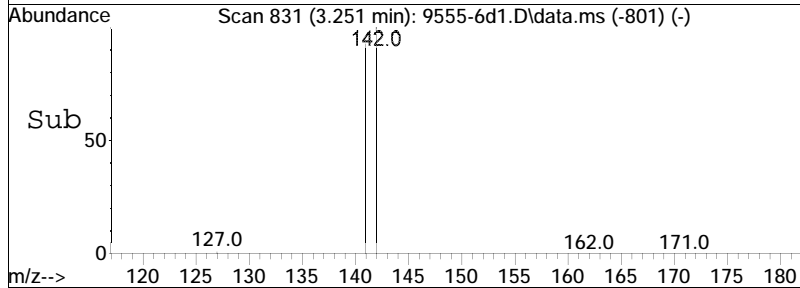
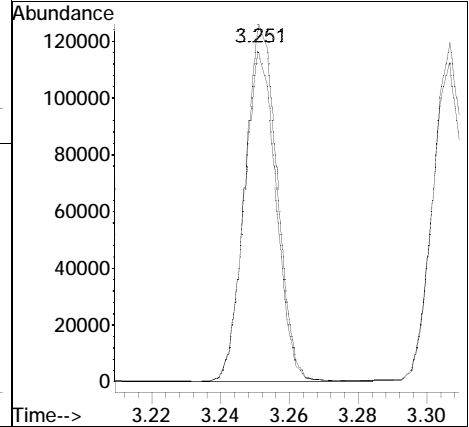
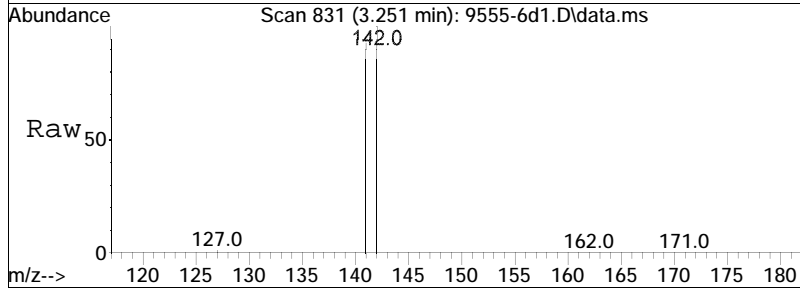
Tgt Ion	Resp	Lower	Upper
225	100		
223	63.2	50.4	75.6

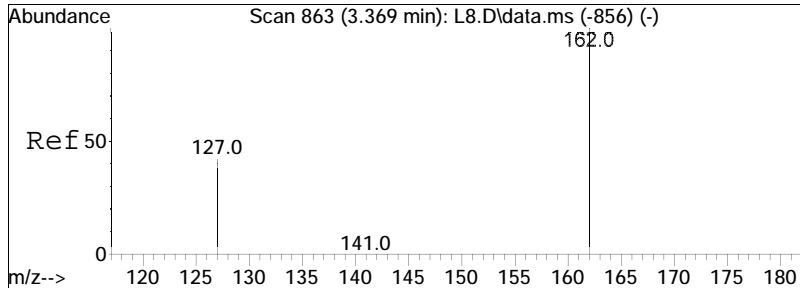




#11
 2-Methylnaphthalene
 Concen: 4.50 ug/ml
 RT: 3.251 min Scan# 831
 Delta R.T. 0.017 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

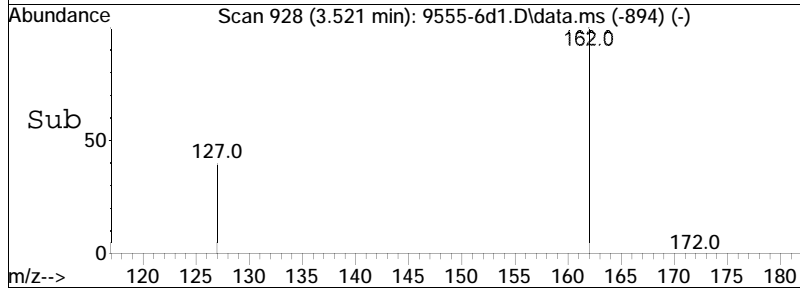
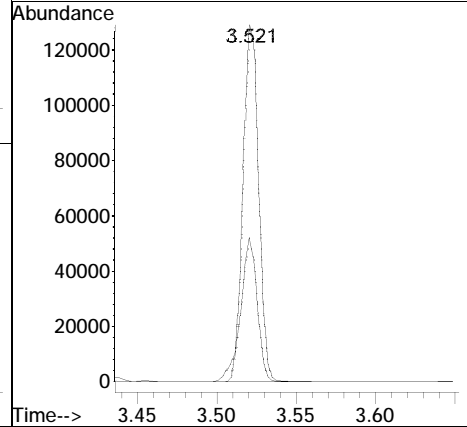
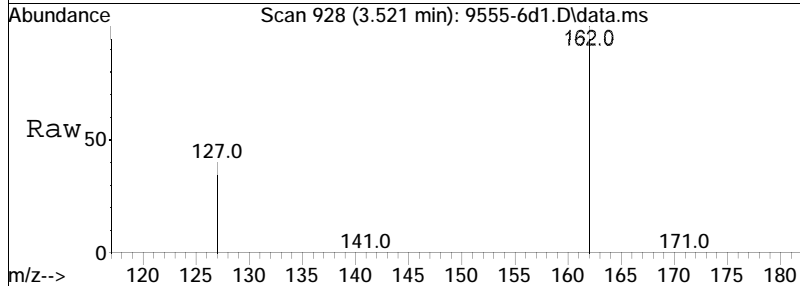
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.7	74.2	111.4

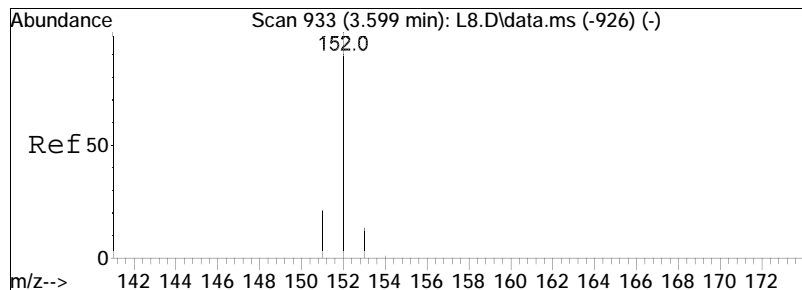




#14
 2-Chloronaphthalene
 Concen: 4.46 ug/ml
 RT: 3.521 min Scan# 928
 Delta R.T. 0.015 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

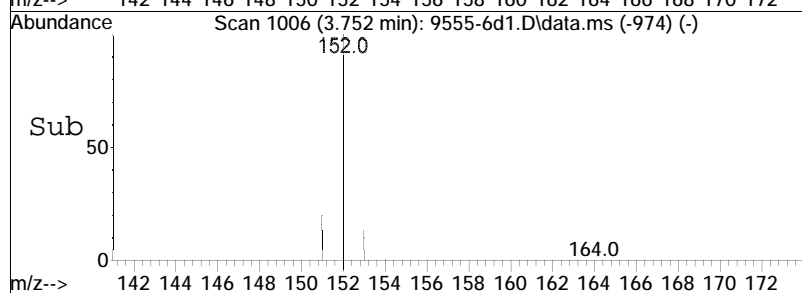
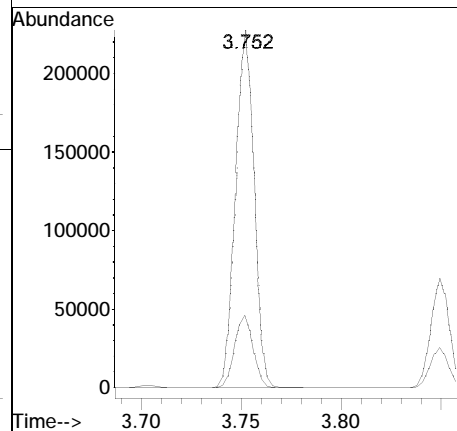
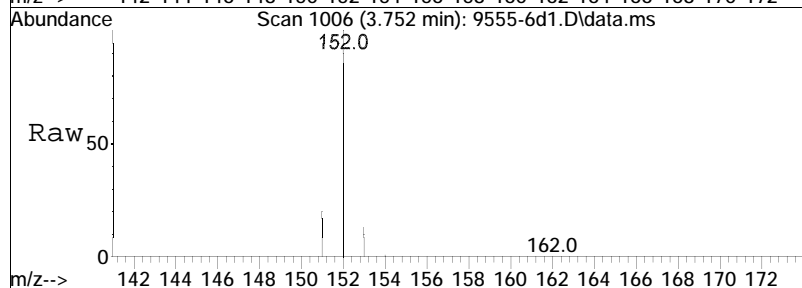
Tgt Ion	Resp	Lower	Upper
162	100		
127	43.0	31.5	47.3

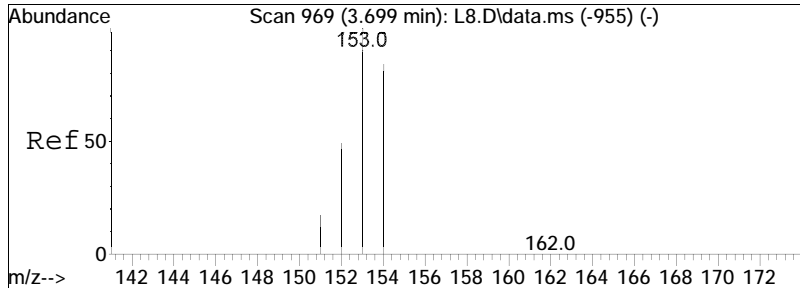




#15
 Acenaphthylene
 Concen: 5.26 ug/ml
 RT: 3.752 min Scan# 1006
 Delta R.T. 0.017 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

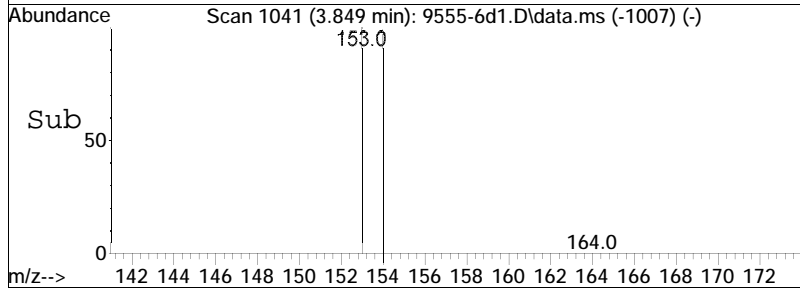
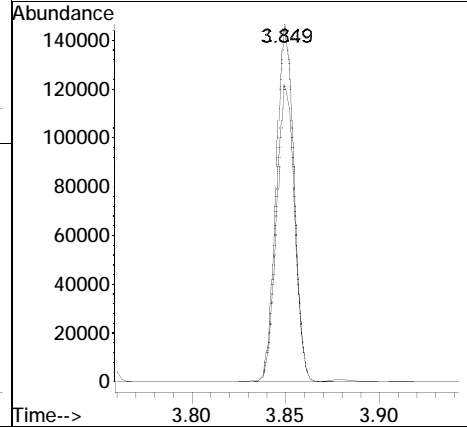
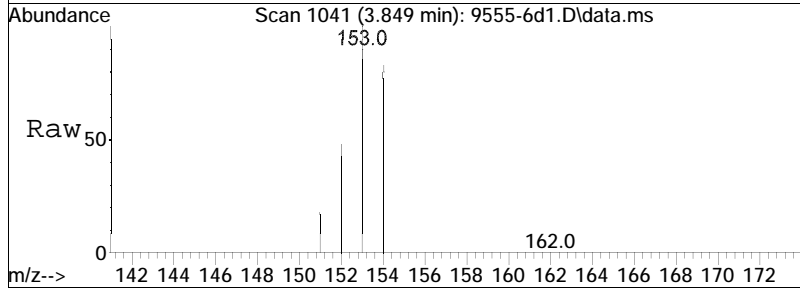
Tgt Ion	Resp	Lower	Upper
152	100		
151	20.3	16.3	24.5

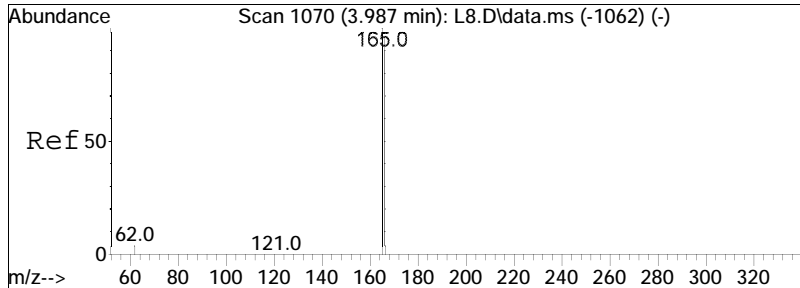




#17
 Acenaphthene
 Concen: 4.68 ug/ml
 RT: 3.849 min Scan# 1041
 Delta R.T. 0.015 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

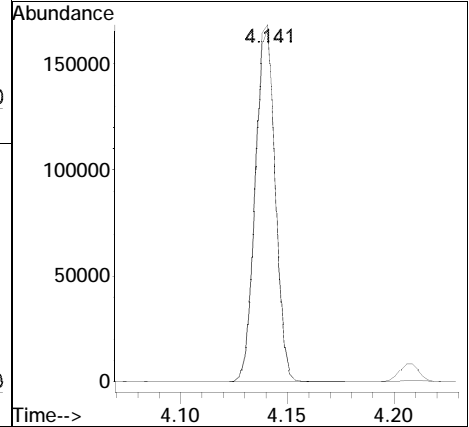
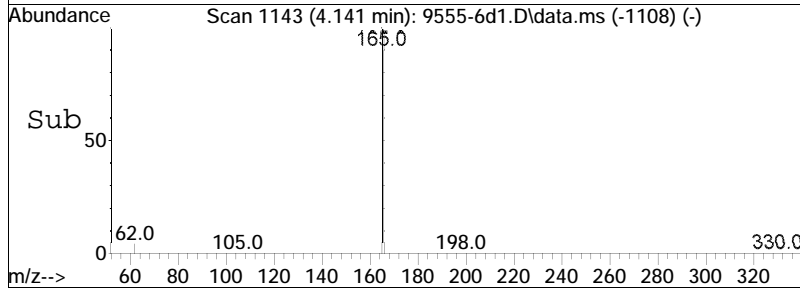
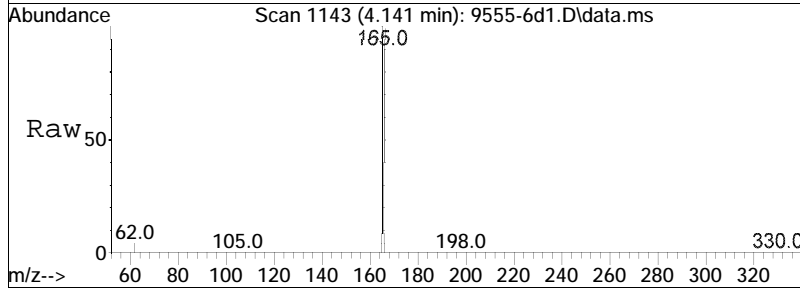
Tgt Ion	Resp	Lower	Upper
153	100		
154	84.3	70.8	106.2

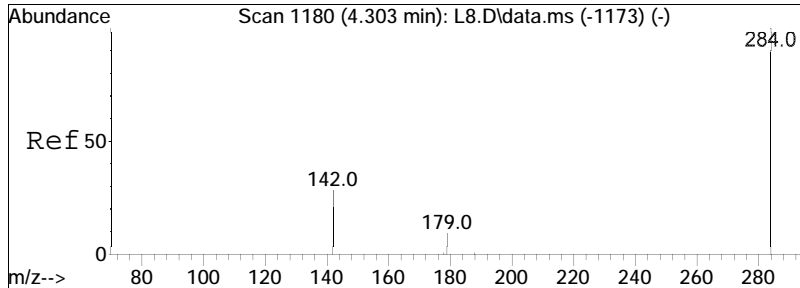




#18
 Fluorene
 Concen: 5.07 ug/ml
 RT: 4.141 min Scan# 1143
 Delta R.T. 0.014 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

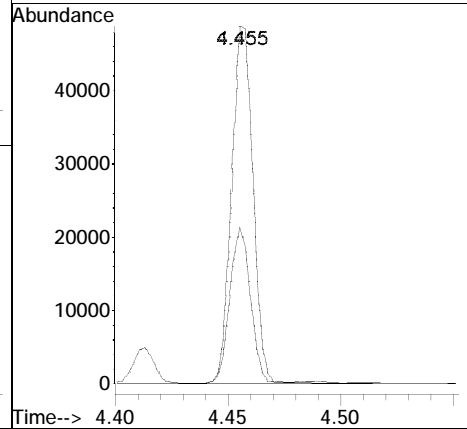
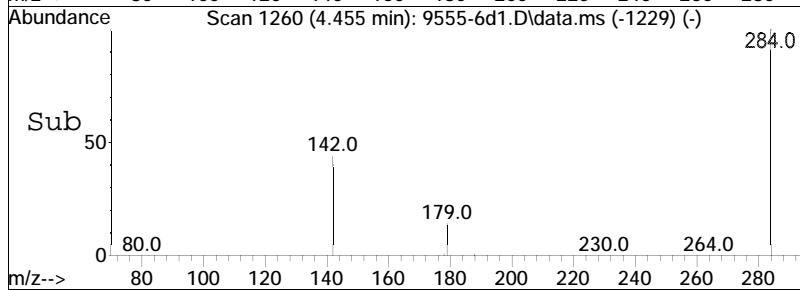
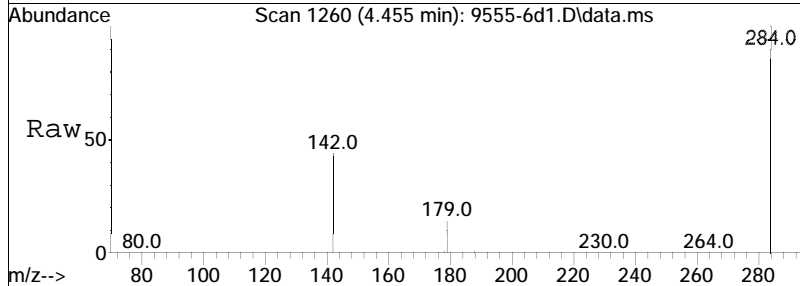
Tgt Ion	Resp	Lower	Upper
166	107496		
165	102.0	82.2	123.2

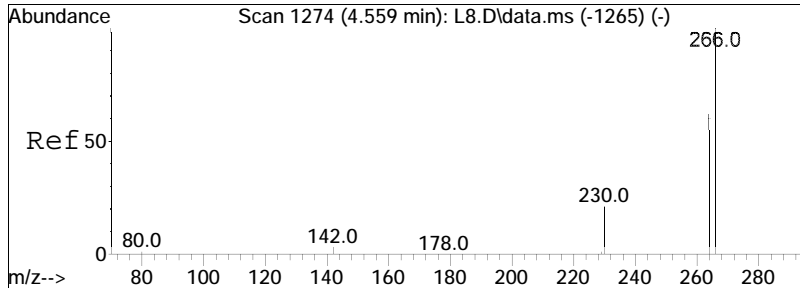




#22
 Hexachlorobenzene
 Concen: 3.90 ug/ml
 RT: 4.455 min Scan# 1260
 Delta R.T. 0.011 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

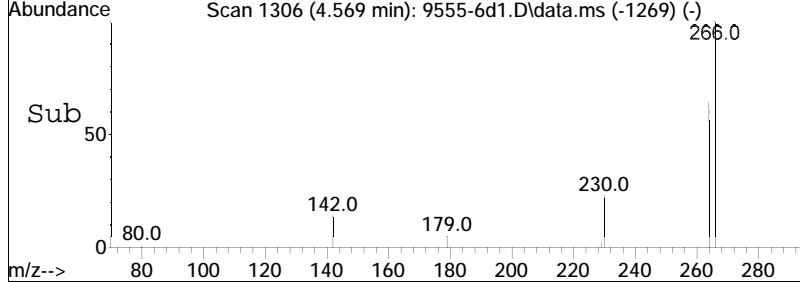
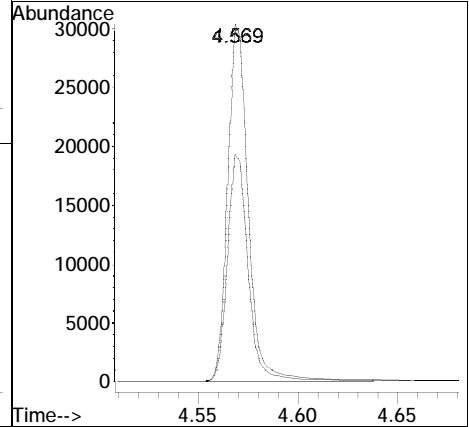
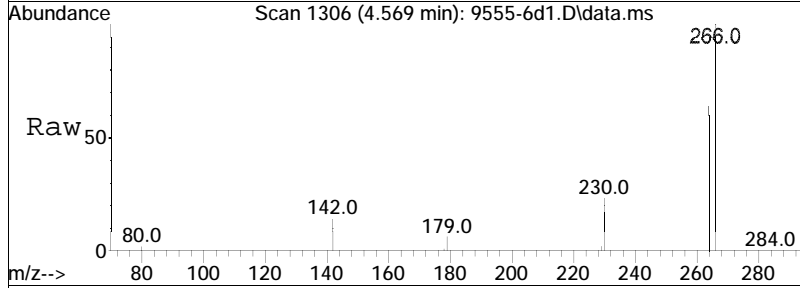
Tgt Ion: 284 Resp: 31628
 Ion Ratio Lower Upper
 284 100
 142 42.5 29.2 43.8

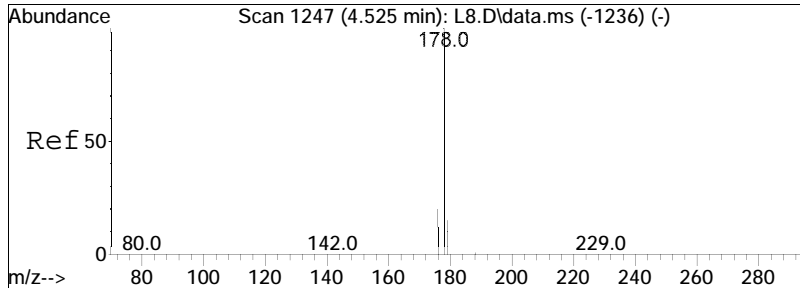




#23
 Pentachlorophenol
 Concen: 6.05 ug/ml
 RT: 4.569 min Scan# 1306
 Delta R.T. 0.011 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

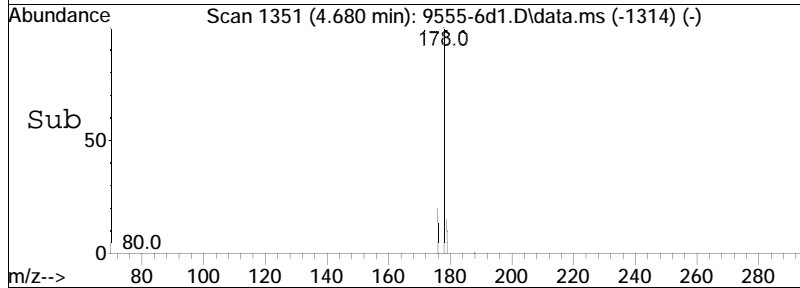
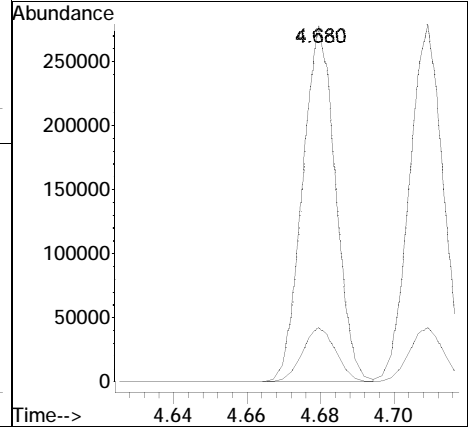
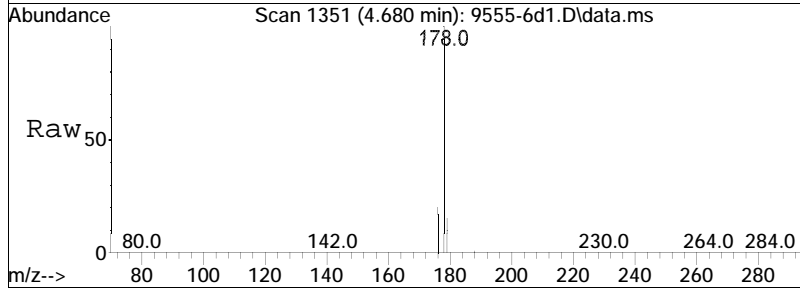
Tgt Ion: 266 Resp: 21549
 Ion Ratio Lower Upper
 266 100
 264 64.2 50.6 76.0

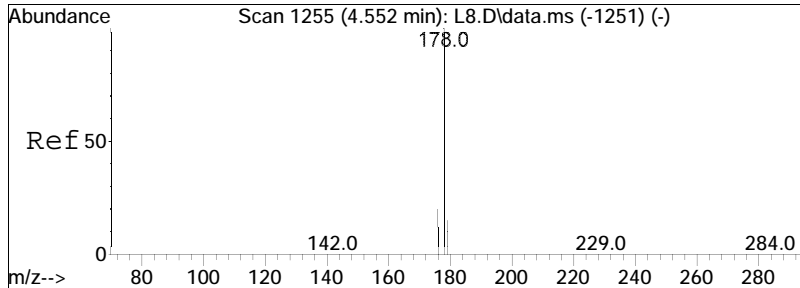




#24
 Phenanthrene
 Concen: 4.63 ug/ml
 RT: 4.680 min Scan# 1351
 Delta R.T. 0.011 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

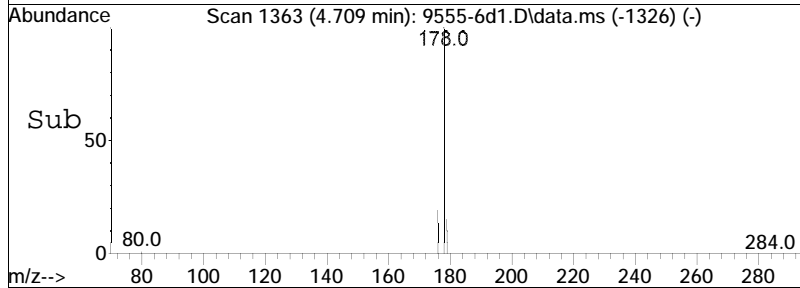
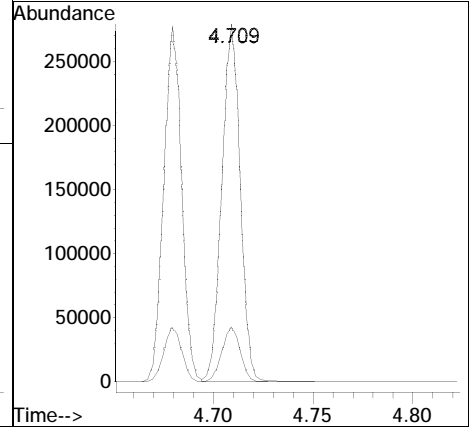
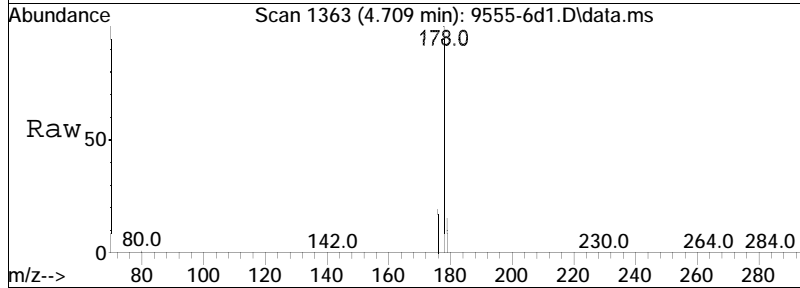
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.4	12.3	18.5

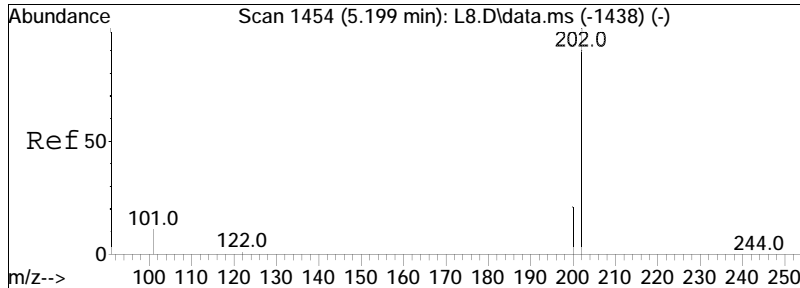




#25
 Anthracene
 Concen: 5.10 ug/ml
 RT: 4.709 min Scan# 1363
 Delta R.T. 0.011 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

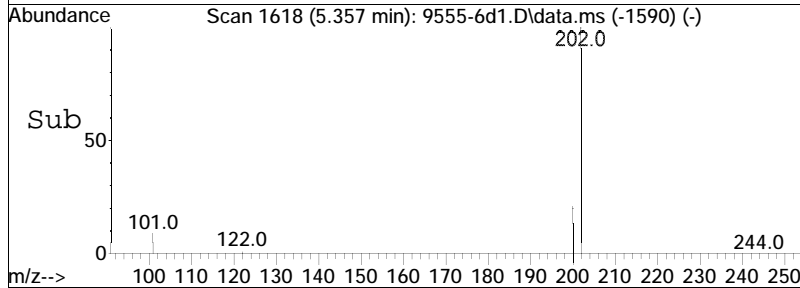
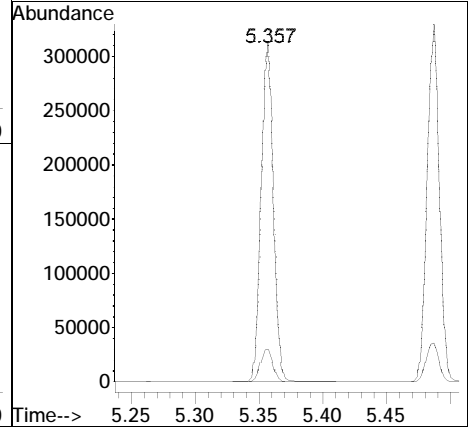
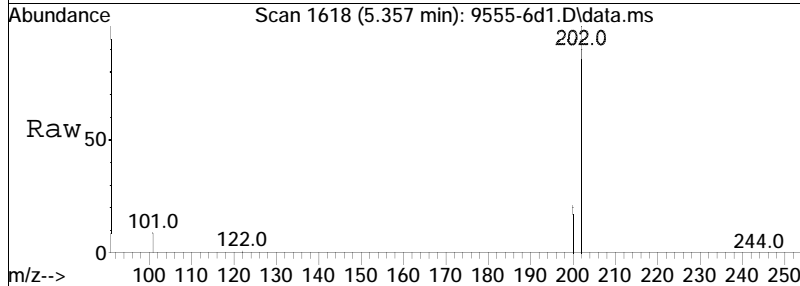
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.3	12.2	18.2

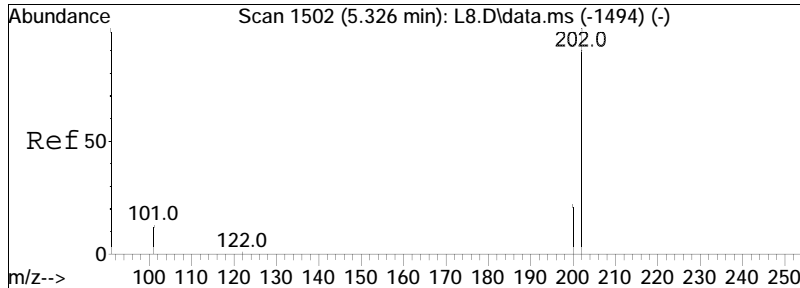




#27
 Fluoranthene
 Concen: 5.22 ug/ml
 RT: 5.357 min Scan# 1618
 Delta R.T. -0.007 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

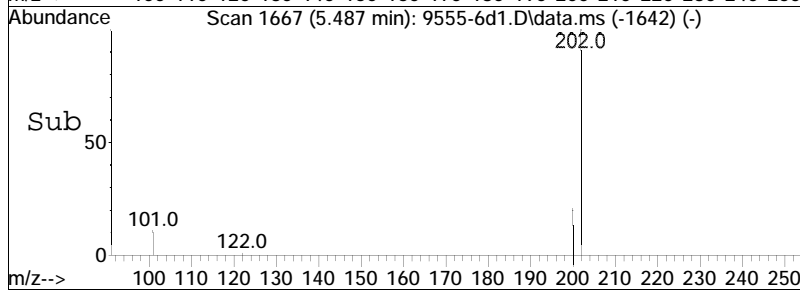
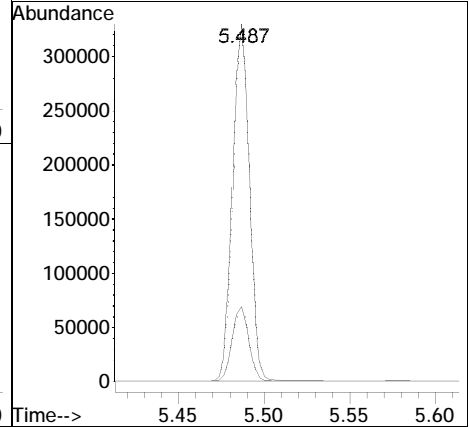
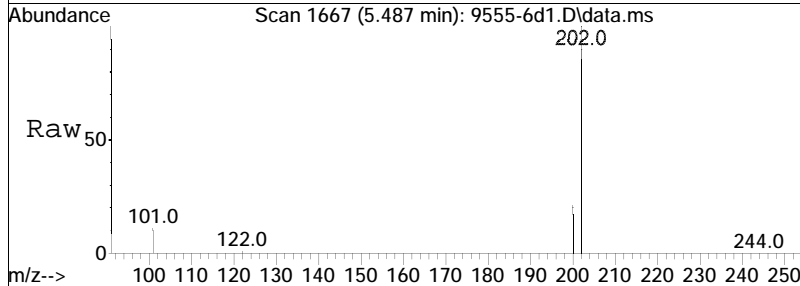
Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.7	9.3	13.9

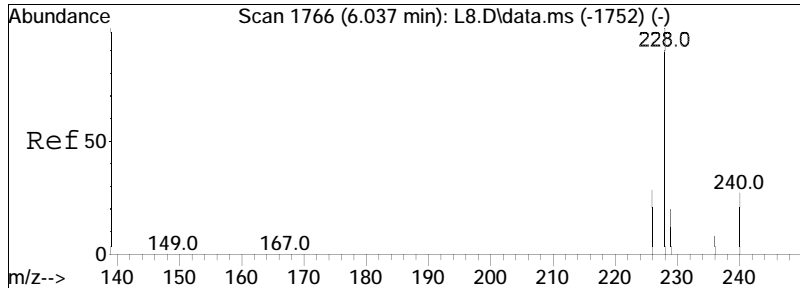




#28
 Pyrene
 Concen: 5.30 ug/ml
 RT: 5.487 min Scan# 1667
 Delta R.T. -0.015 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

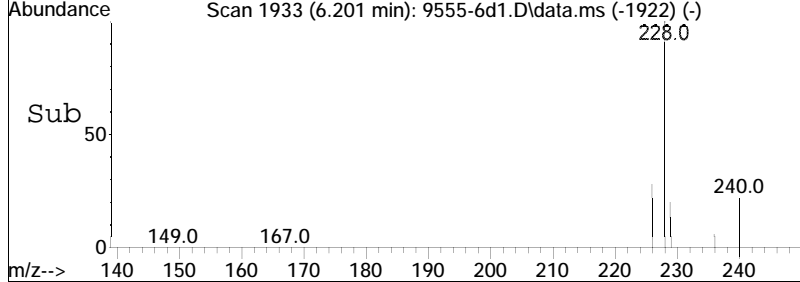
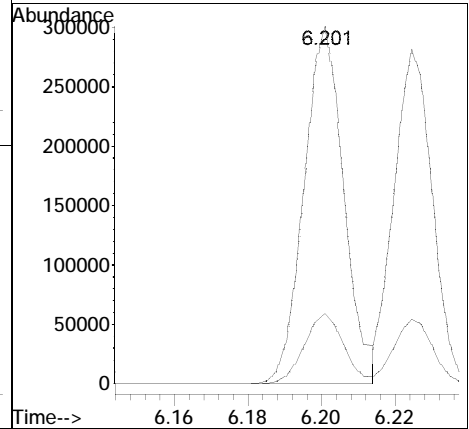
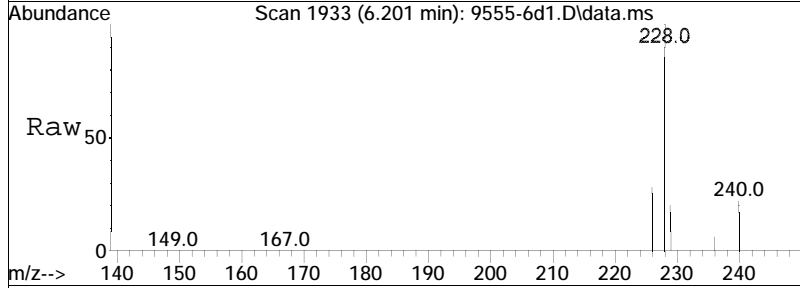
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.4	26.2

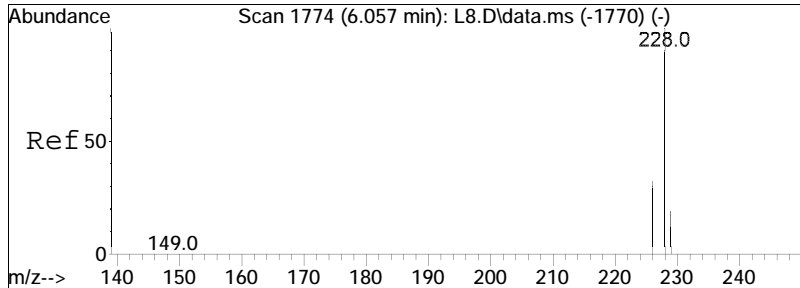




#31
 Benzo[a]anthracene
 Concen: 5.29 ug/ml
 RT: 6.201 min Scan# 1933
 Delta R.T. -0.051 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

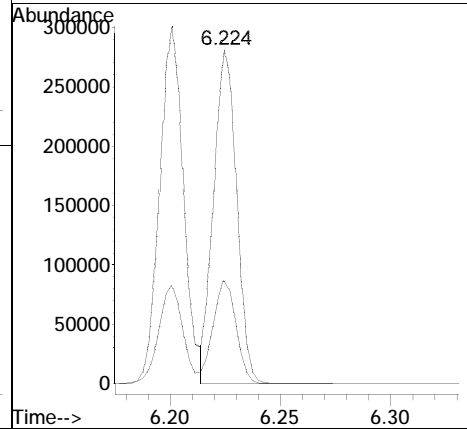
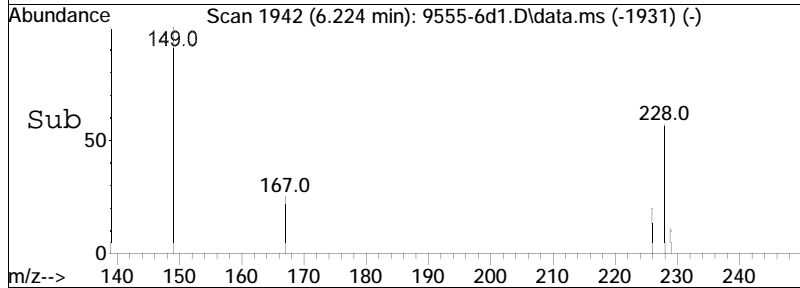
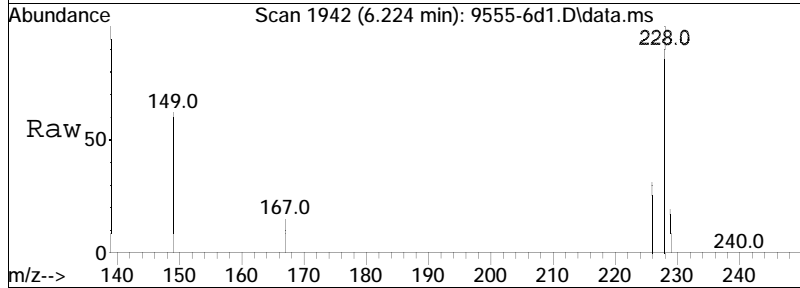
Tgt Ion	Resp	Lower	Upper
228	100		
229	19.5	15.6	23.4

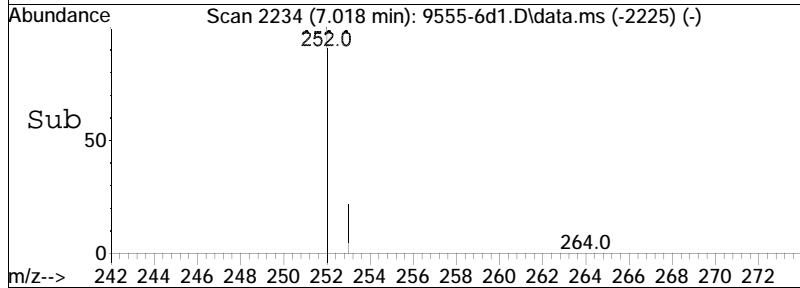
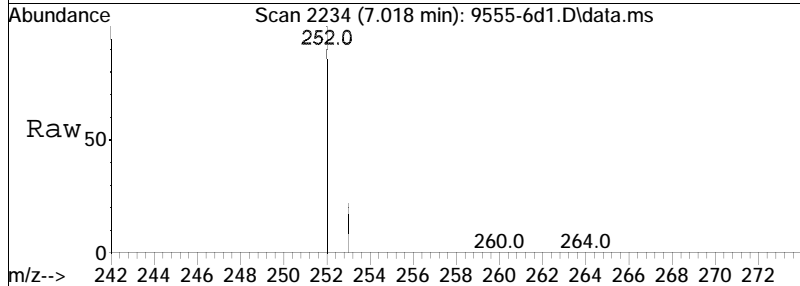
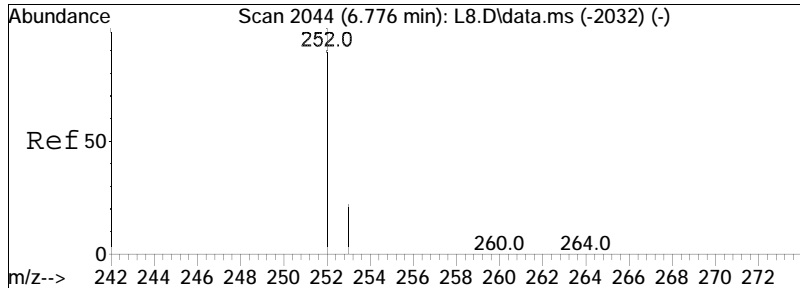




#32
 Chrysene
 Concen: 4.51 ug/ml
 RT: 6.224 min Scan# 1942
 Delta R.T. -0.051 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

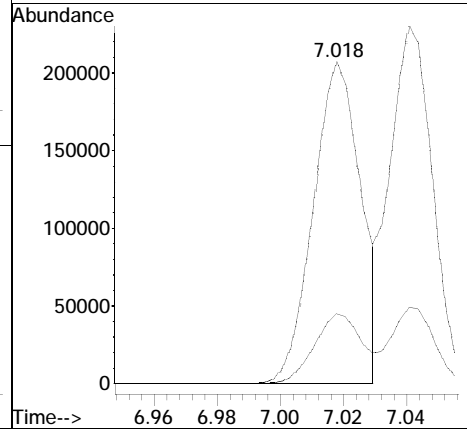
Tgt Ion	Resp	Lower	Upper
228	100		
226	31.4	24.9	37.3

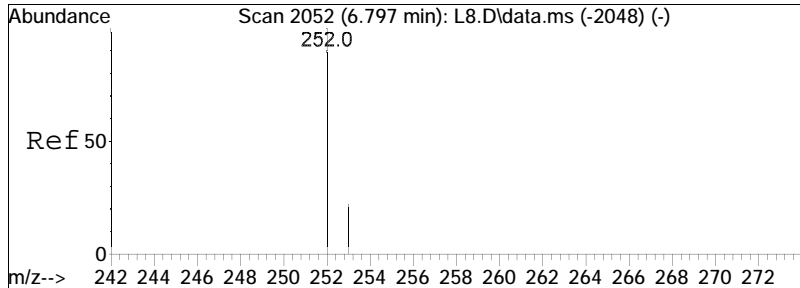




#35
 Benzo[b]fluoranthene
 Concen: 4.81 ug/ml
 RT: 7.018 min Scan# 2234
 Delta R.T. -0.054 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

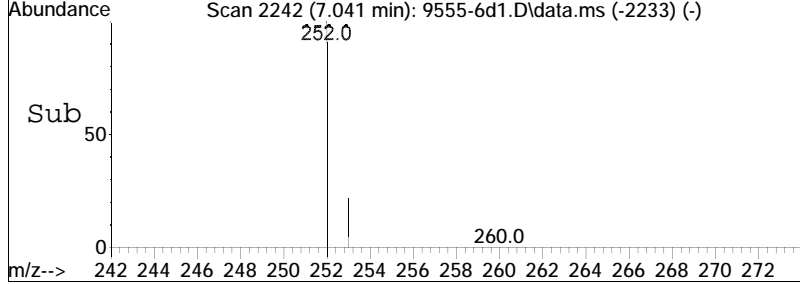
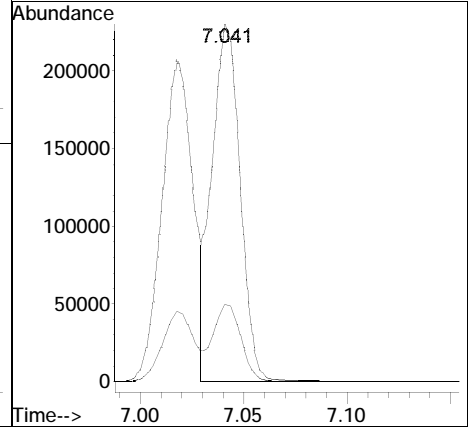
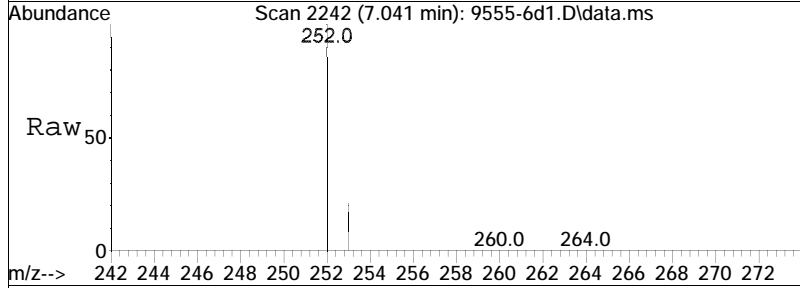
Tgt Ion	Resp	Lower	Upper
252	216722		
253	21.6	17.2	25.8

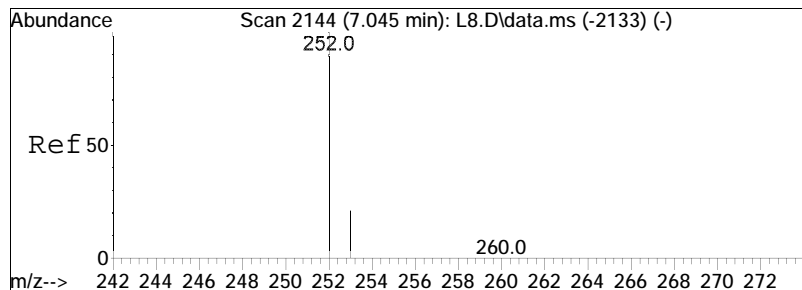




#36
 Benzo[k]fluoranthene
 Concen: 4.87 ug/ml
 RT: 7.041 min Scan# 2242
 Delta R.T. -0.054 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

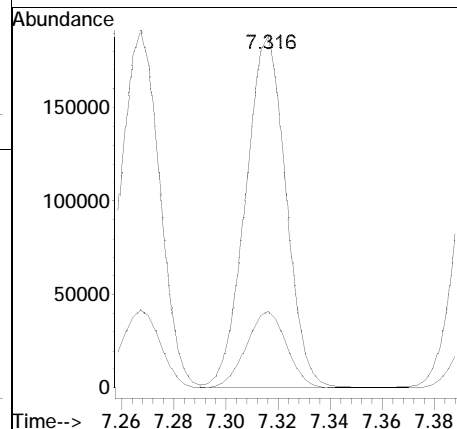
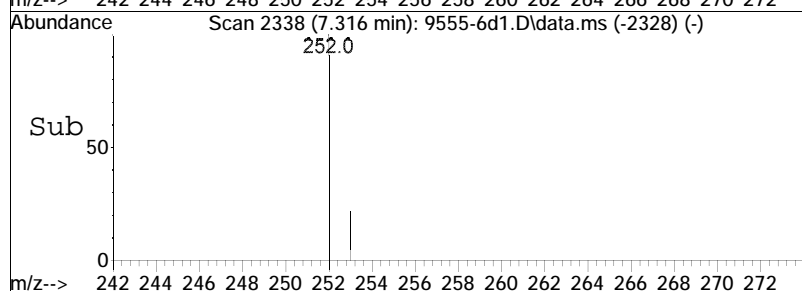
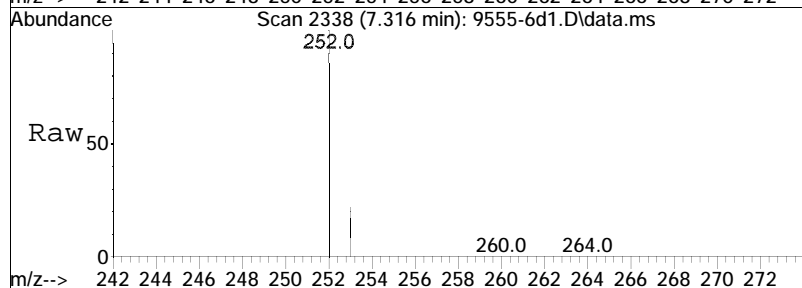
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.8	17.4	26.0

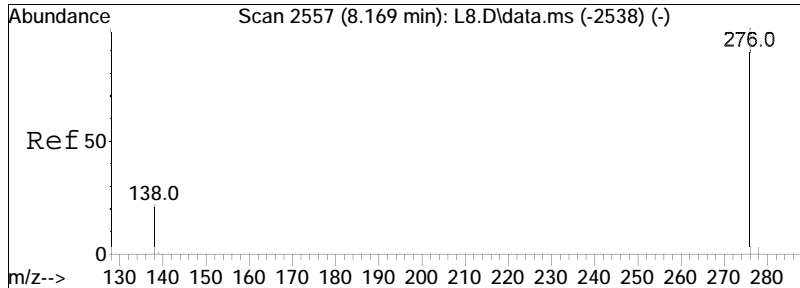




#37
 Benzo[a]pyrene
 Concen: 5.47 ug/ml
 RT: 7.316 min Scan# 2338
 Delta R.T. -0.051 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

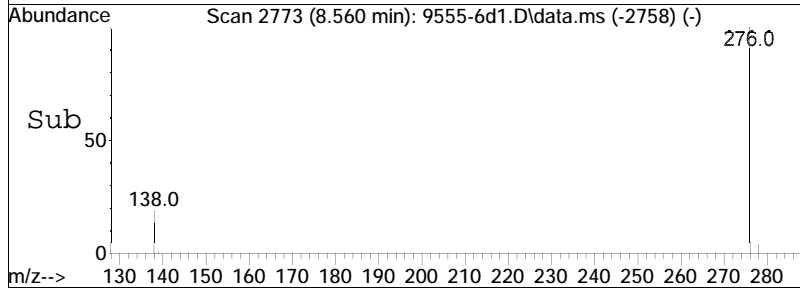
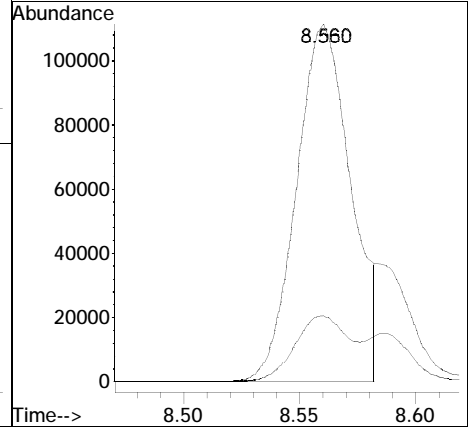
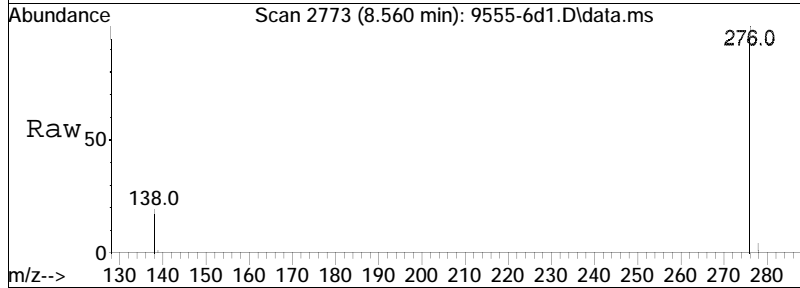
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.7	16.8	25.2

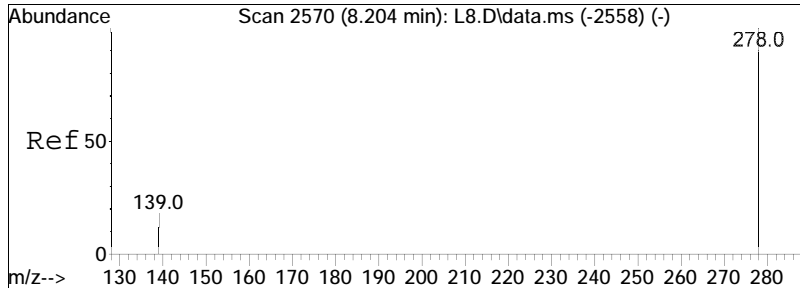




#38
 Indeno[1,2,3-cd]pyrene
 Concen: 5.34 ug/ml M6
 RT: 8.560 min Scan# 2773
 Delta R.T. -0.040 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

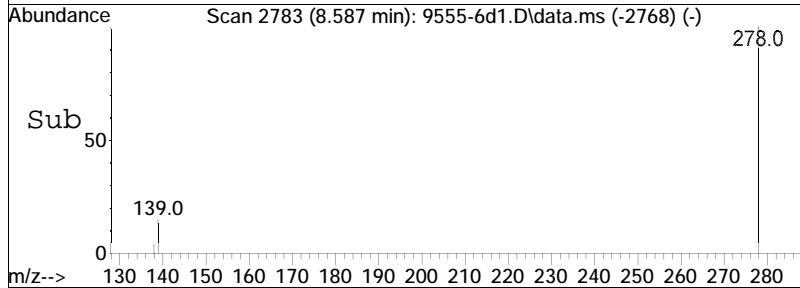
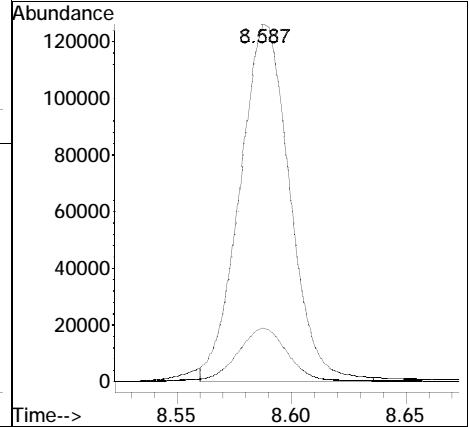
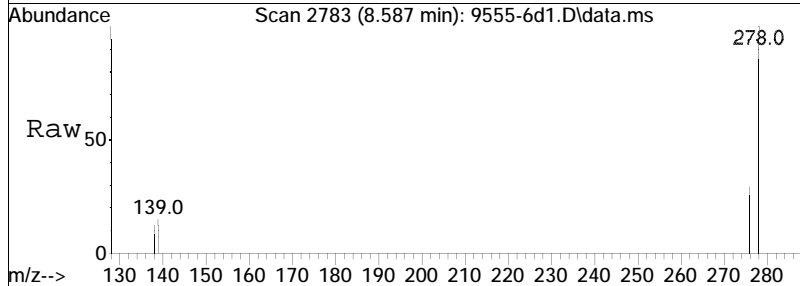
Tgt Ion	Resp	Lower	Upper
276	100		
138	18.6	17.9	26.9

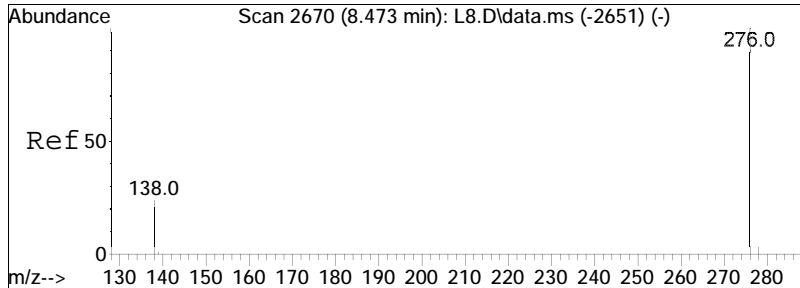




#39
 Dibenzo[a,h]anthracene
 Concen: 4.87 ug/ml M6
 RT: 8.587 min Scan# 2783
 Delta R.T. -0.040 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

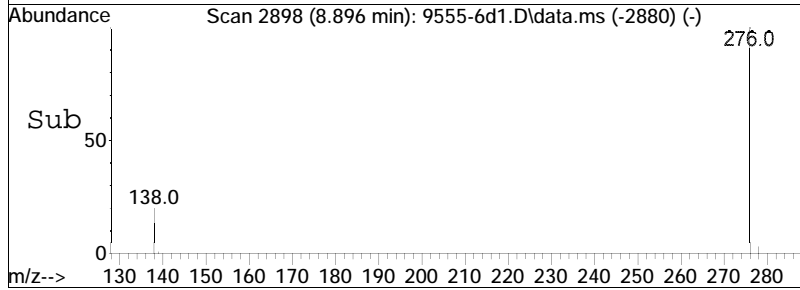
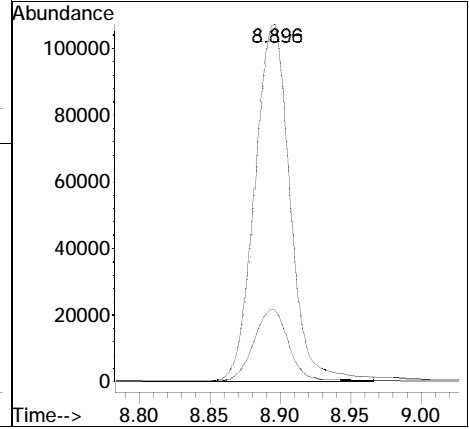
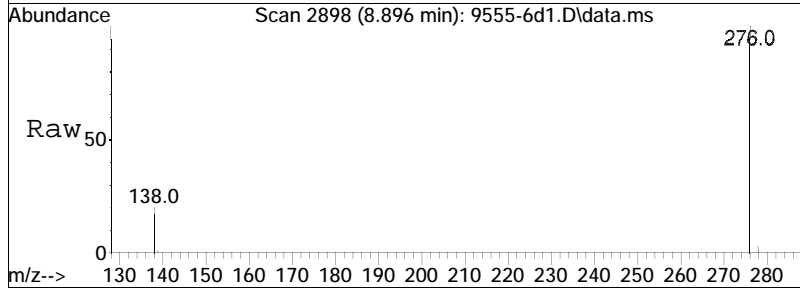
Tgt Ion	Resp	Lower	Upper
278	100		
139	15.2	15.9	23.9#





#40
 Benzo[g,h,i]perylene
 Concen: 4.29 ug/ml M1
 RT: 8.896 min Scan# 2898
 Delta R.T. -0.032 min
 Lab File: 9555-6d1.D
 Acq: 08 Aug 2023 03:29 pm

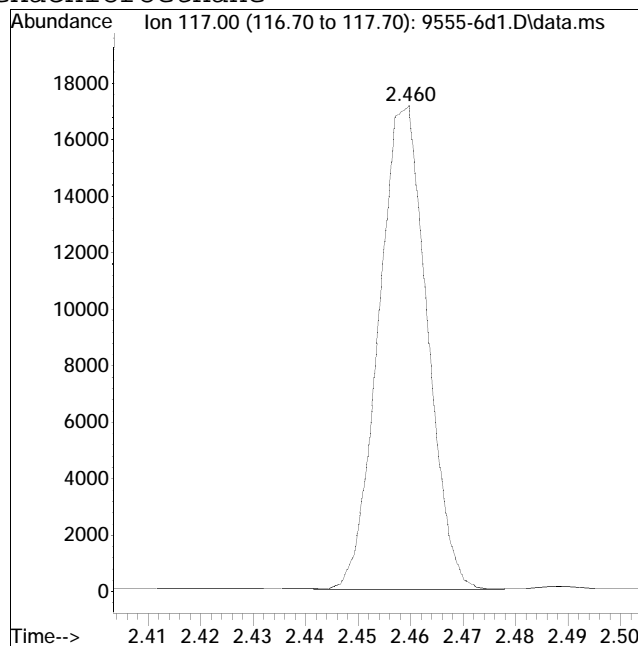
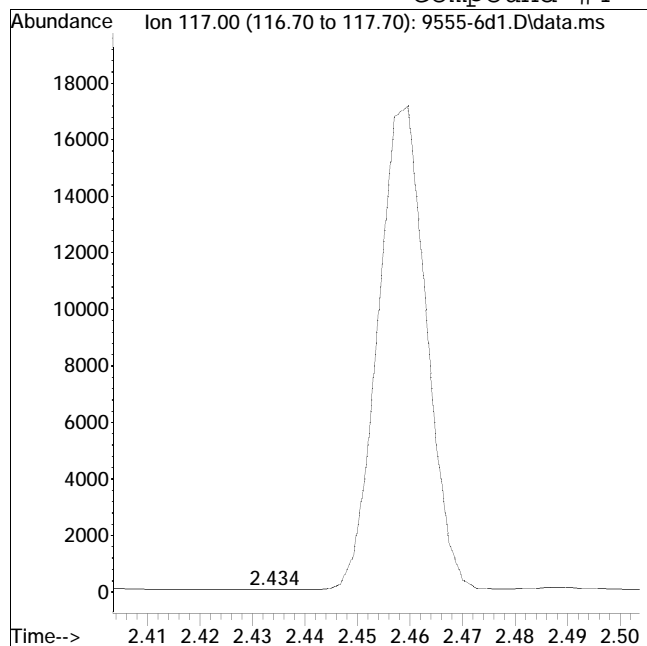
Tgt Ion	Resp	Lower	Upper
276	100		
138	19.8	20.1	30.1#



Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 9555-6d1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 3:29 pm Instrument : SV120
Sample : Wg1809555-6,32,5,RV,TIC Quant Date : 8/8/2023 3:43 pm

Compound #4: Hexachloroethane



Original Peak Response = 2

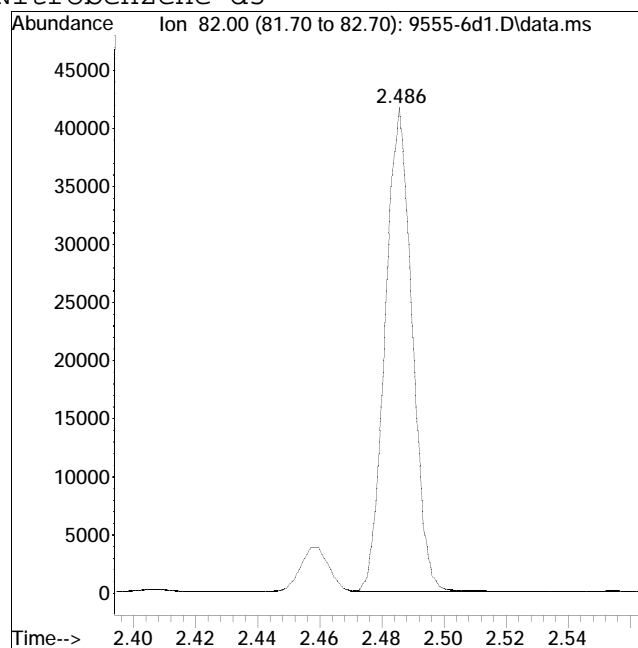
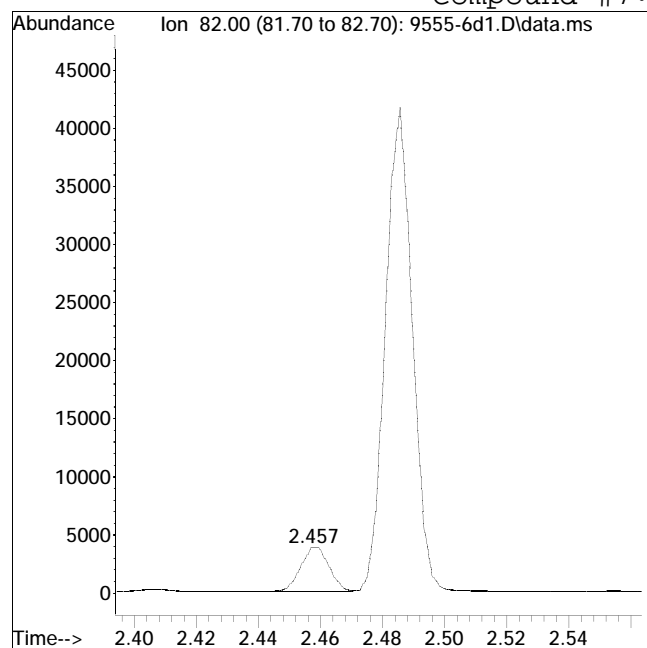
Manual Peak Response = 11015 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 9555-6d1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 3:29 pm Instrument : SV120
Sample : Wg1809555-6,32,5,RV,TIC Quant Date : 8/8/2023 3:43 pm

Compound #7: Nitrobenzene-d5



Original Peak Response = 2450

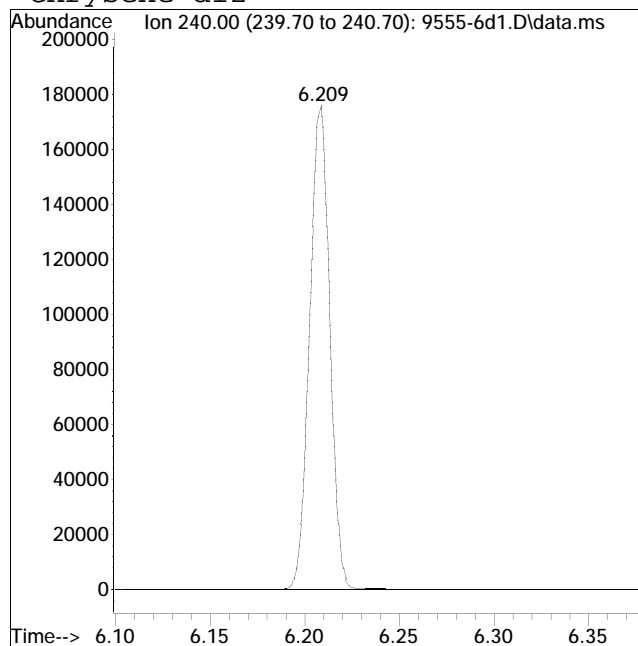
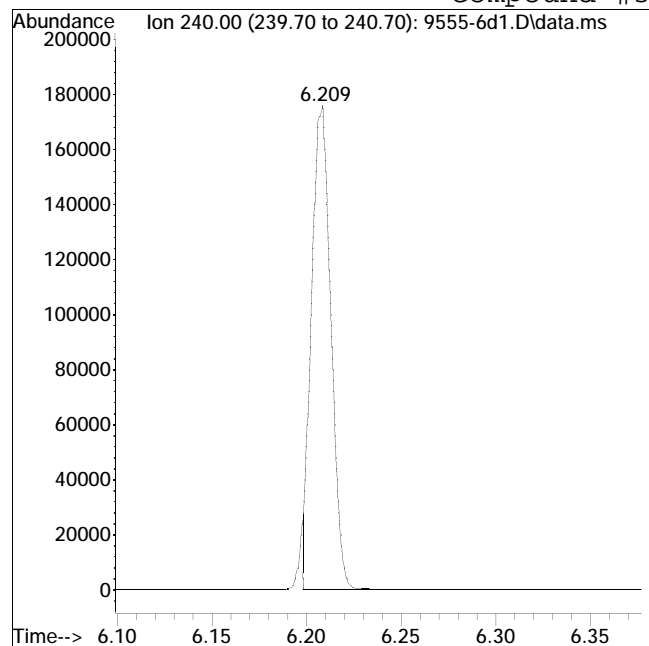
Manual Peak Response = 25114 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 9555-6d1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 3:29 pm Instrument : SV120
Sample : Wg1809555-6,32,5,RV,TIC Quant Date : 8/8/2023 3:43 pm

Compound #30: Chrysene-d12



Original Peak Response = 124641

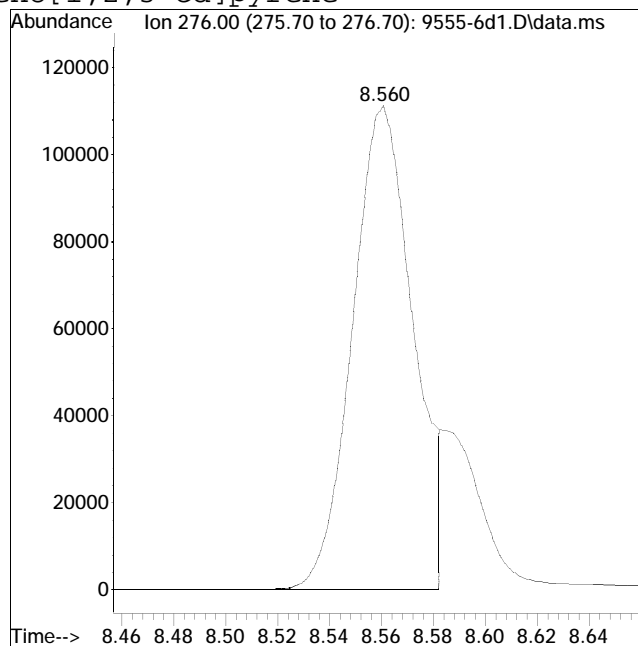
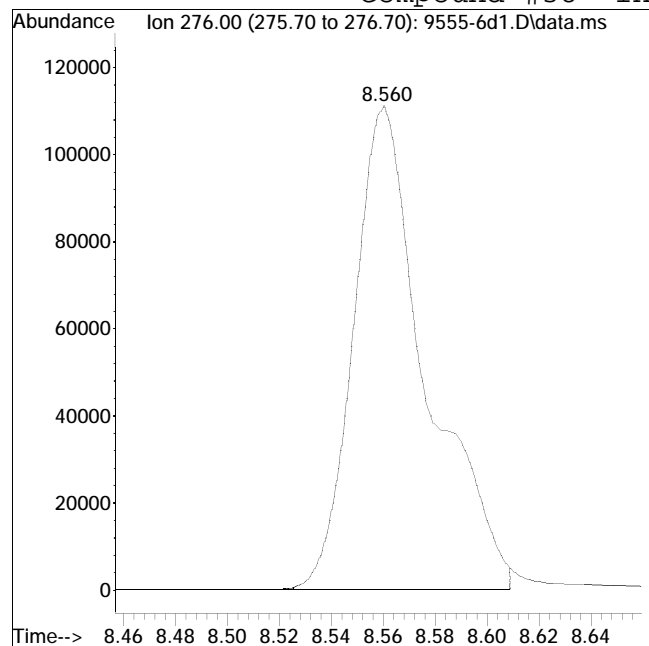
Manual Peak Response = 131310 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 9555-6d1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 3:29 pm Instrument : SV120
Sample : Wg1809555-6,32,5,RV,TIC Quant Date : 8/8/2023 3:43 pm

Compound #38: Indeno[1,2,3-cd]pyrene



Original Peak Response = 216910

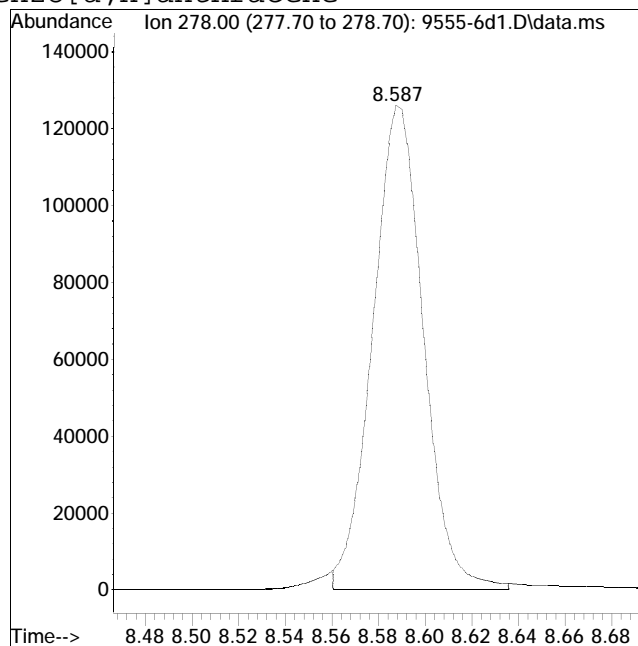
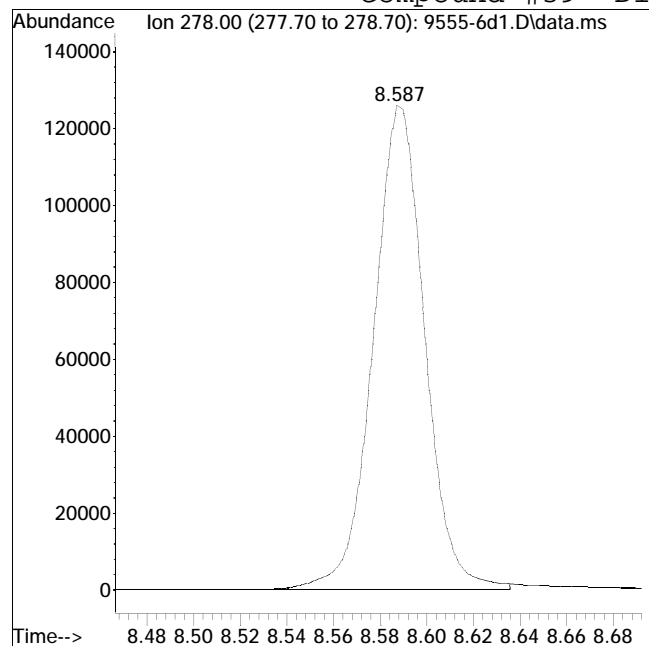
Manual Peak Response = 181714 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 9555-6d1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 3:29 pm Instrument : SV120
Sample : Wg1809555-6,32,5,RV,TIC Quant Date : 8/8/2023 3:43 pm

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 192848

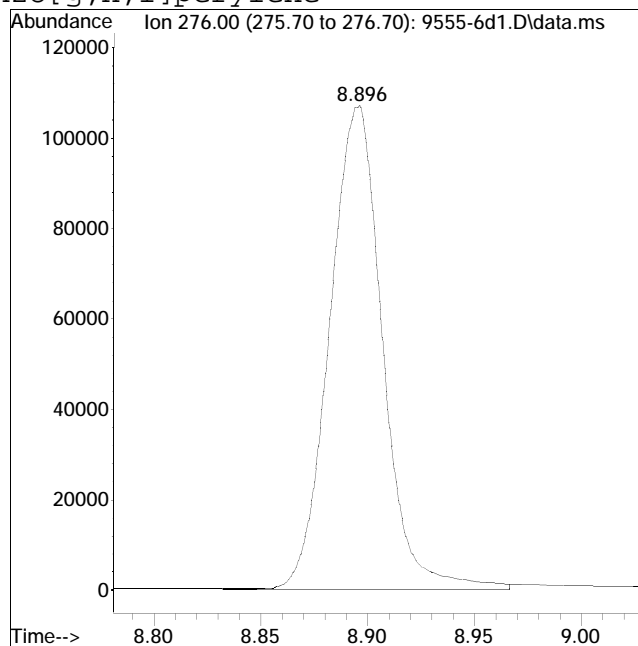
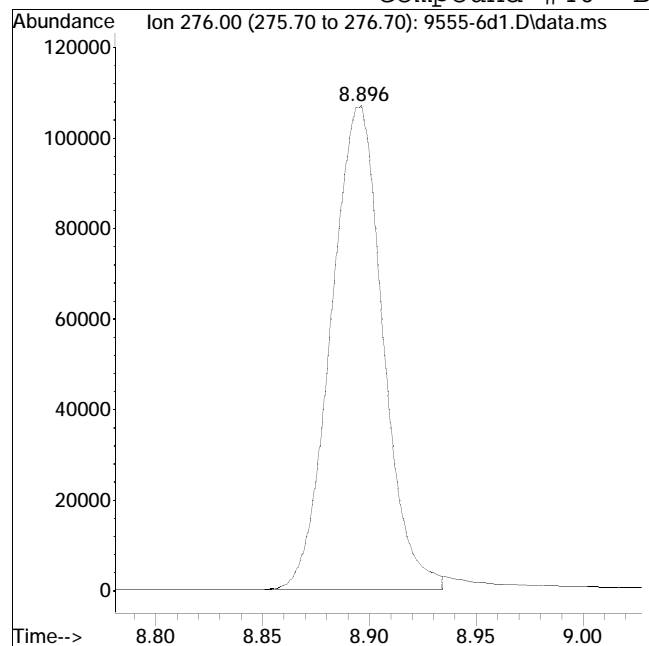
Manual Peak Response = 190166 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 9555-6d1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 3:29 pm Instrument : SV120
Sample : Wg1809555-6,32,5,RV,TIC Quant Date : 8/8/2023 3:43 pm

Compound #40: Benzo[g,h,i]perylene



Original Peak Response = 180378

Manual Peak Response = 185138 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 9555-5d1.D
 Acq On : 08 Aug 2023 03:13 pm
 Operator : SV120:jjw
 Sample : Wg1809555-5,32,5,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 09 09:14:14 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230808ST\ccv0808.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.201	152	27092	4.000	ug/ml	0.02
Standard Area 1 = 25900			Recovery =	104.60%		
8) Naphthalene-d8	2.863	136	109932	4.000	ug/ml	0.02
Standard Area 1 = 96934			Recovery =	113.41%		
16) Acenaphthene-d10	3.832	164	62419	4.000	ug/ml	0.01
Standard Area 1 = 51703			Recovery =	120.73%		
20) Phenanthrene-d10	4.666	188	140196	4.000	ug/ml	0.00
Standard Area 1 = 107414			Recovery =	130.52%		
30) Chrysene-d12	6.210	240	132216M1	4.000	ug/ml	-0.05
Standard Area 1 = 96547			Recovery =	136.94%		
34) Perylene-d12	7.375	264	150118	4.000	ug/ml	-0.05
Standard Area 1 = 119148			Recovery =	125.99%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.610	112	35767	5.094	ug/ml	0.03
Spiked Amount 50.000	Range 15 - 110		Recovery =	10.19%#		
3) Phenol-d6	2.020	99	32145	3.706	ug/ml	0.03
Spiked Amount 50.000	Range 15 - 110		Recovery =	7.41%#		
7) Nitrobenzene-d5	2.485	82	29615	4.327	ug/ml	0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	17.31%#		
13) 2-Fluorobiphenyl	3.456	172	78288	3.603	ug/ml	0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	14.41%#		
19) 2,4,6-Tribromophenol	4.277	330	13945	4.863	ug/ml	0.01
Spiked Amount 50.000	Range 15 - 110		Recovery =	9.73%#		
26) O-Terphenyl-MS	0.000	230	0d	0.000	ug/ml	
Spiked Amount 20.000	Range 40 - 140		Recovery =	0.00%#		
29) 4-Terphenyl-d14	5.581	244	111978	3.893	ug/ml	-0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	15.57%#		
Target Compounds						
4) Hexachloroethane	2.456	117	11565	3.537	ug/ml	95
5) Bis(2-chloroethyl)ether	2.065	93	39847	5.417	ug/ml	98
6) n-nitrosodi-n-propylamine	2.402	70	30666	6.222	ug/ml	96
9) Naphthalene	2.873	128	131306	4.639	ug/ml	100
10) Hexachlorobutadiene	2.943	225	21808	4.112	ug/ml	100
11) 2-Methylnaphthalene	3.250	142	90926	5.115	ug/ml	99
12) 1-Methylnaphthalene	3.306	142	84798	4.869	ug/ml	99
14) 2-Chloronaphthalene	3.523	162	95872	5.100	ug/ml	94
15) Acenaphthylene	3.751	152	163569	6.045	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 9555-5d1.D
 Acq On : 08 Aug 2023 03:13 pm
 Operator : SV120:jjw
 Sample : Wg1809555-5,32,5,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 09 09:14:14 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230808ST\ccv0808.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthene	3.849	153	107139	5.035	ug/ml	95
18) Fluorene	4.140	166	122348	5.462	ug/ml	100
21) 4,6-Dinitro-o-cresol	4.179	198	2238	1.372	ug/ml	88
22) Hexachlorobenzene	4.457	284	36489	4.356	ug/ml	90
23) Pentachlorophenol	4.570	266	22516	6.117	ug/ml	99
24) Phenanthrene	4.681	178	198472	5.151	ug/ml	100
25) Anthracene	4.708	178	202120	5.587	ug/ml	100
27) Fluoranthene	5.359	202	236433	5.709	ug/ml	95
28) Pyrene	5.488	202	247507	5.754	ug/ml	99
31) Benzo[a]anthracene	6.205	228	250620	5.822	ug/ml	100
32) Chrysene	6.228	228	230472	5.096	ug/ml	99
33) Bis(2-ethylhexyl)phtha...	6.226	149	165134	7.542	ug/ml	97
35) Benzo[b]fluoranthene	7.022	252	253903	5.569	ug/ml	100
36) Benzo[k]fluoranthene	7.045	252	233167	5.232	ug/ml	100
37) Benzo[a]pyrene	7.321	252	222359	5.987	ug/ml	98
38) Indeno[1,2,3-cd]pyrene	8.564	276	208039M6	6.046	ug/ml	
39) Dibenzo[a,h]anthracene	8.594	278	214836M6	5.437	ug/ml	
40) Benzo[g,h,i]perylene	8.897	276	209255M1	4.793	ug/ml	

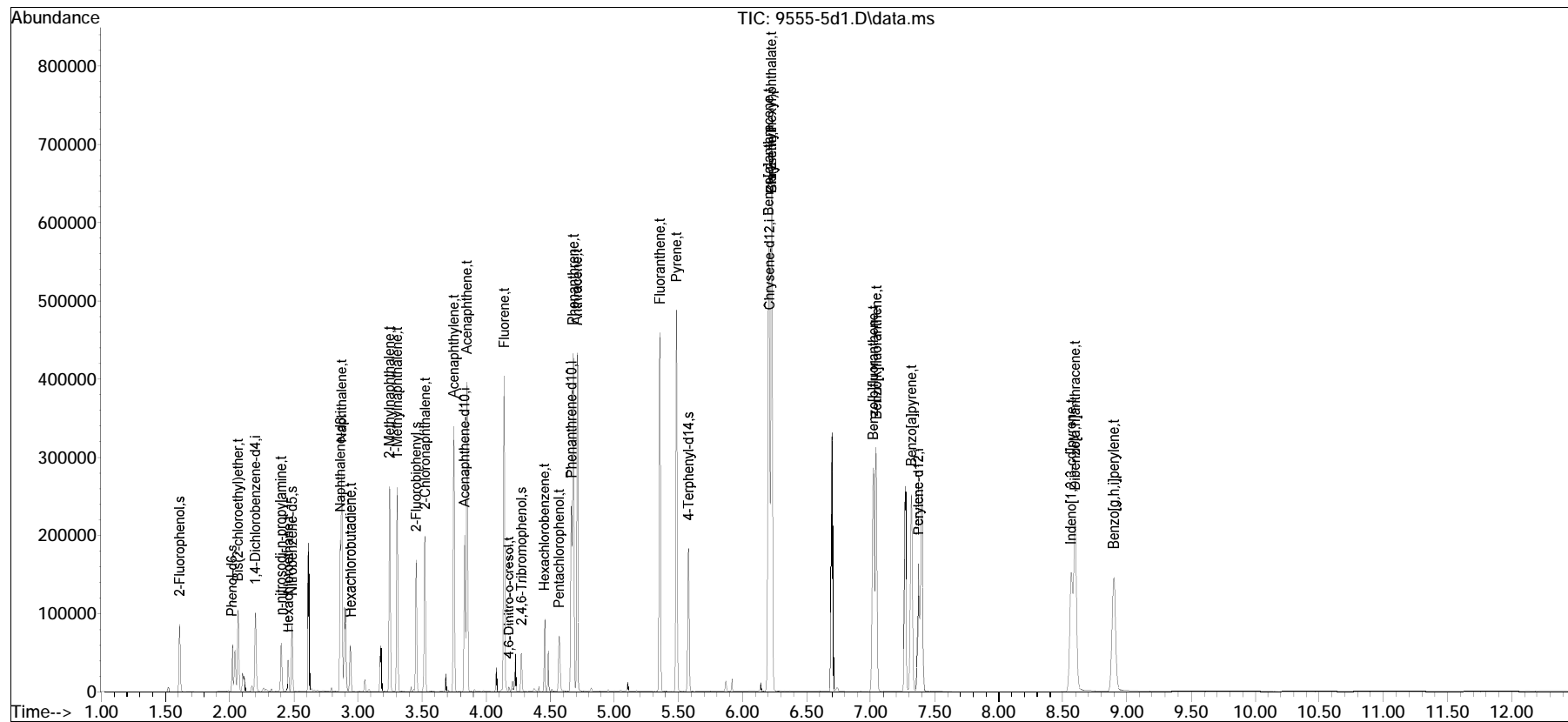
(#) = qualifier out of range (m) = manual integration (+) = signals summed

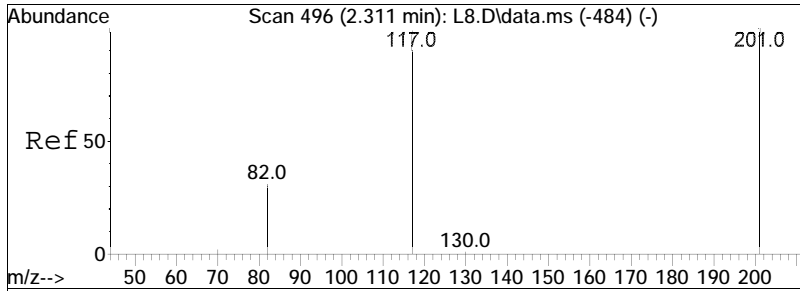
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 9555-5d1.D
 Acq On : 08 Aug 2023 03:13 pm
 Operator : SV120:jjw
 Sample : Wg1809555-5,32,5,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 09 09:14:14 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

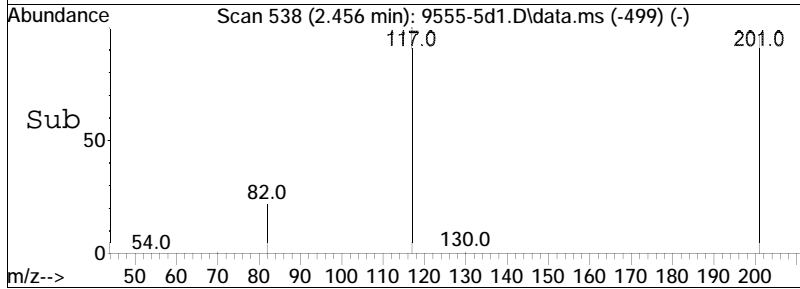
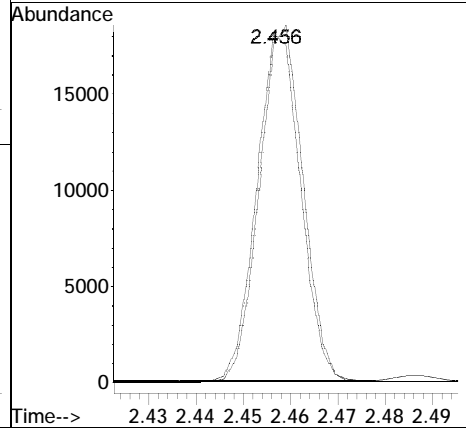
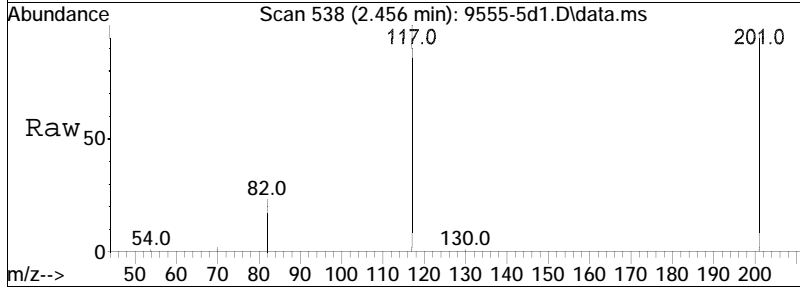
Sub List : DEFAULT - All compounds listedccv0808.D•

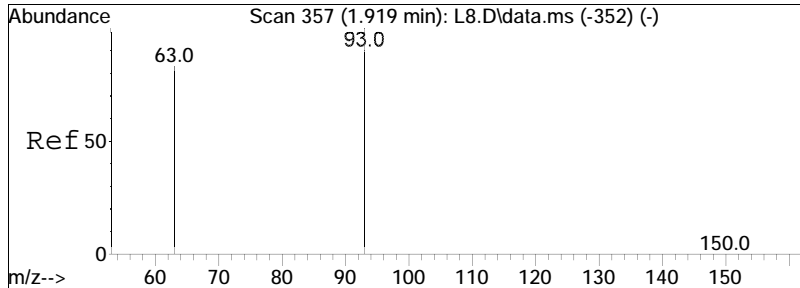




#4
 Hexachloroethane
 Concen: 3.54 ug/ml
 RT: 2.456 min Scan# 538
 Delta R.T. 0.021 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

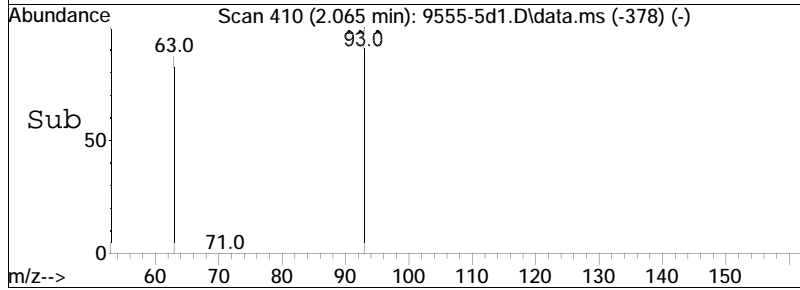
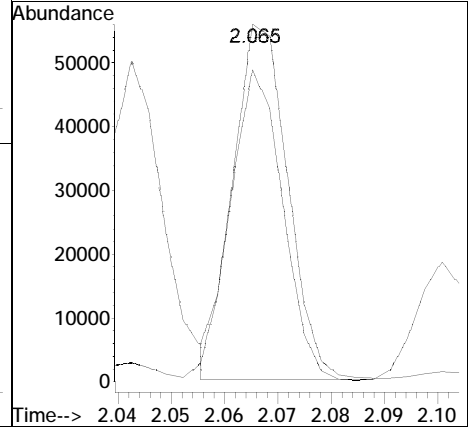
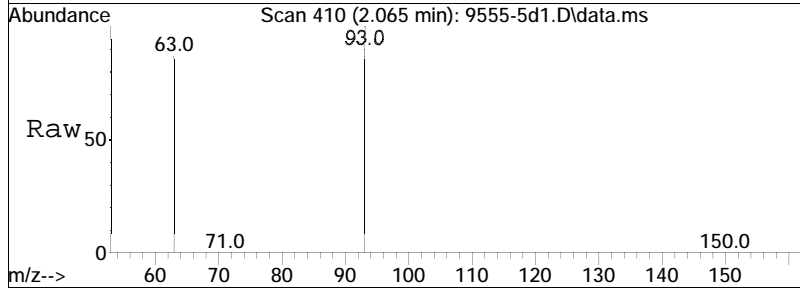
Tgt Ion: 117 Resp: 11565
 Ion Ratio Lower Upper
 117 100
 201 101.3 77.1 115.7

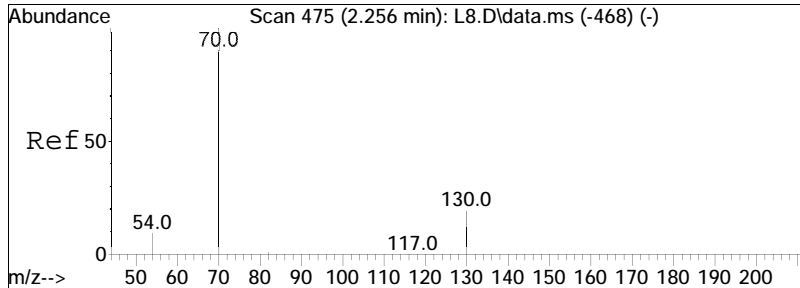




#5
 Bis(2-chloroethyl)ether
 Concen: 5.42 ug/ml
 RT: 2.065 min Scan# 410
 Delta R.T. 0.022 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

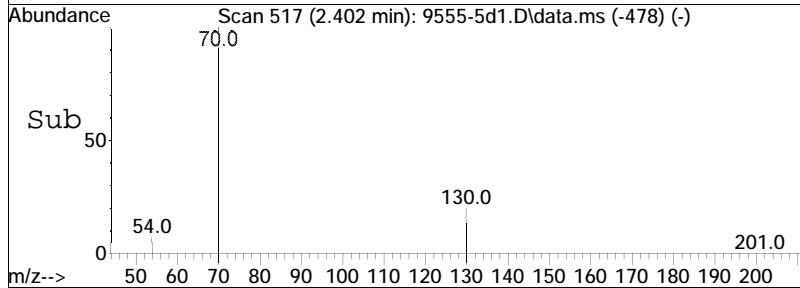
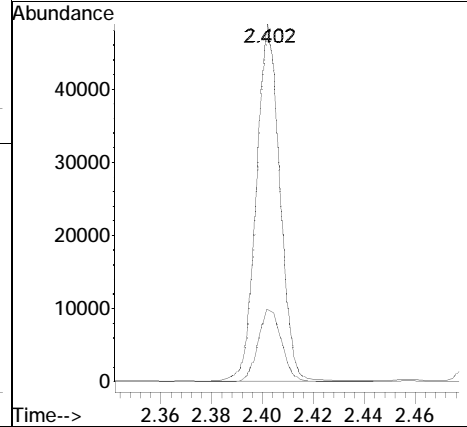
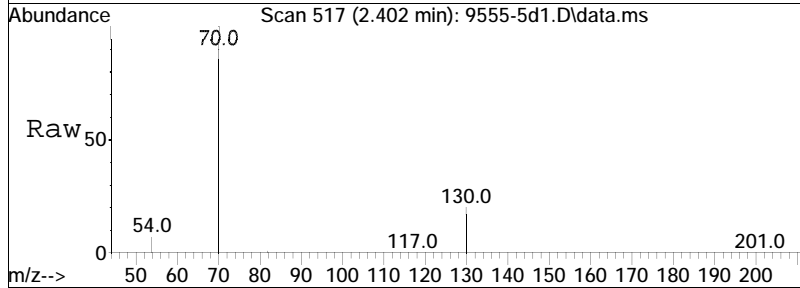
Tgt Ion	Resp	Lower	Upper
93	100		
63	83.9	65.5	98.3

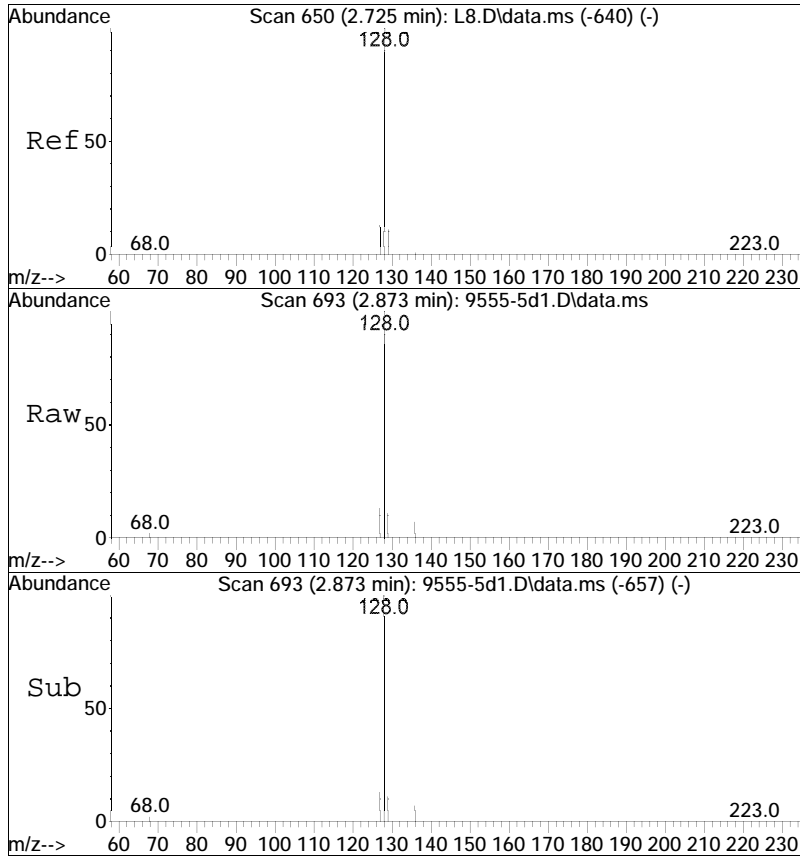




#6
 n-nitrosodi-n-propylamine
 Concen: 6.22 ug/ml
 RT: 2.402 min Scan# 517
 Delta R.T. 0.021 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

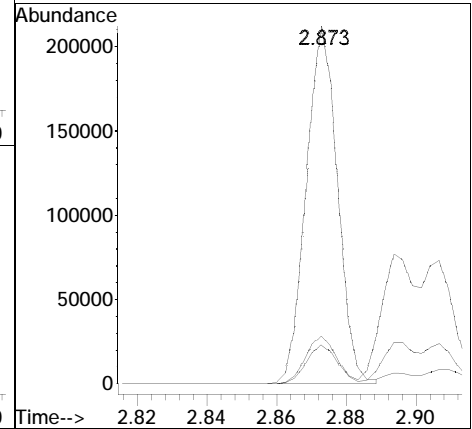
Tgt Ion	Resp	Lower	Upper
70	100		
130	20.3	15.0	22.4

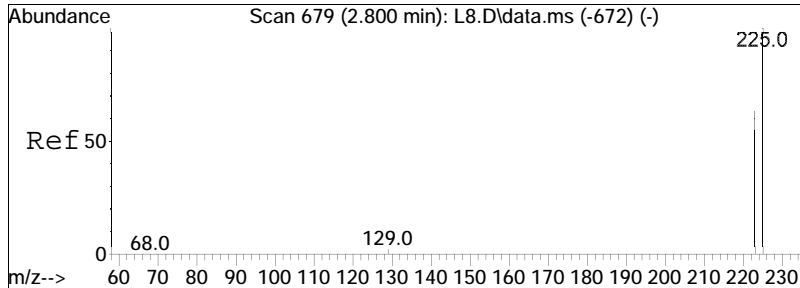




#9
 Naphthalene
 Concen: 4.64 ug/ml
 RT: 2.873 min Scan# 693
 Delta R.T. 0.021 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

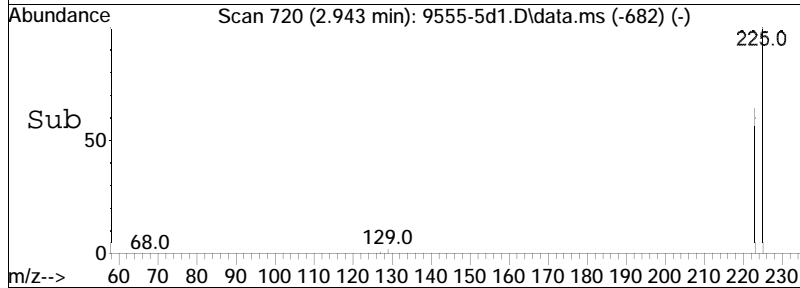
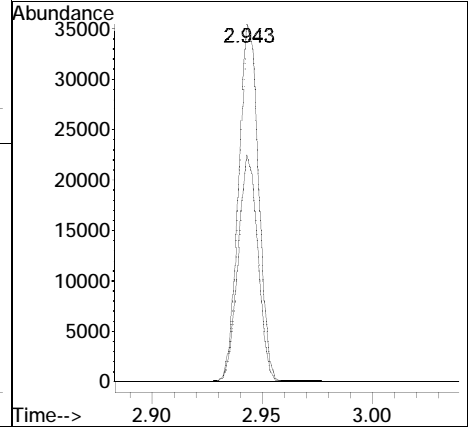
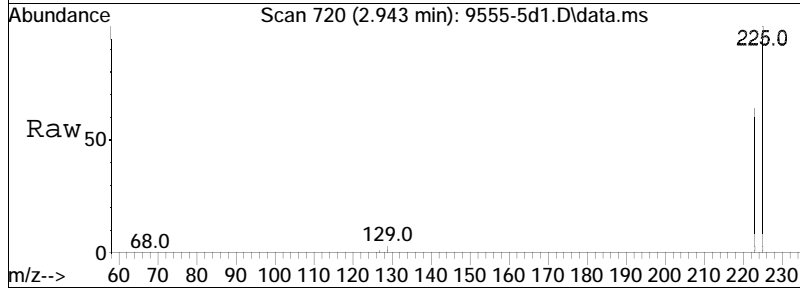
Tgt Ion	Resp	Lower	Upper
128	131306		
129	10.9	8.7	13.1
127	13.4	10.8	16.2

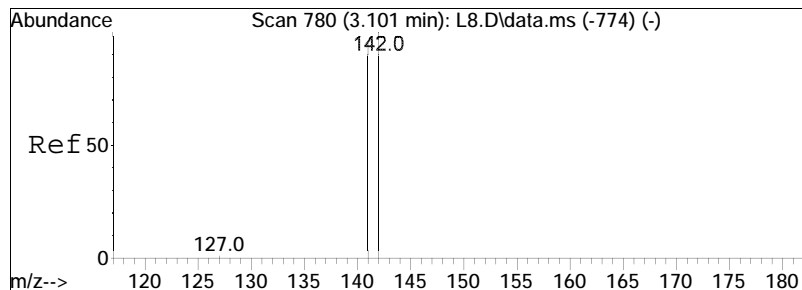




#10
 Hexachlorobutadiene
 Concen: 4.11 ug/ml
 RT: 2.943 min Scan# 720
 Delta R.T. 0.018 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

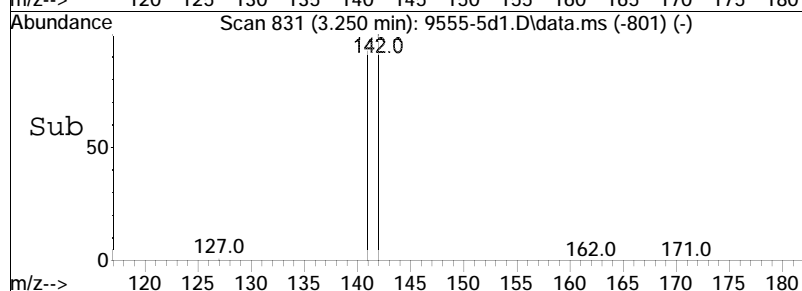
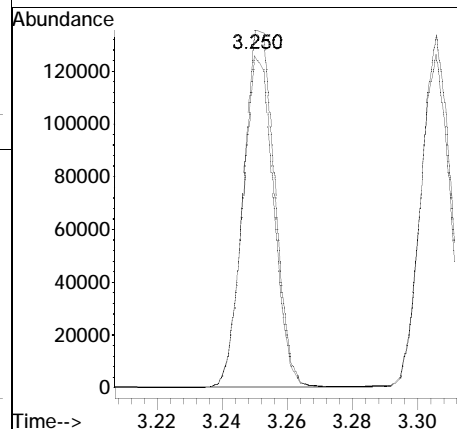
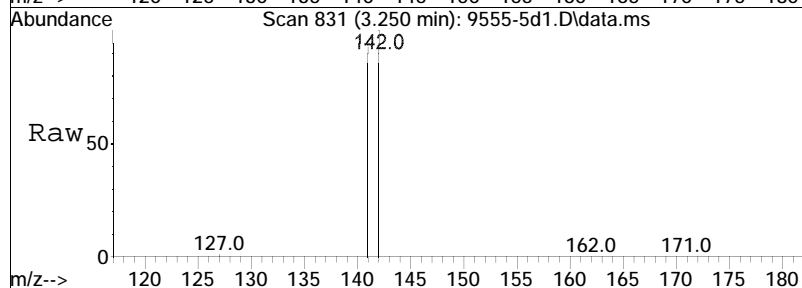
Tgt Ion	Resp	Lower	Upper
225	100		
223	62.9	50.4	75.6

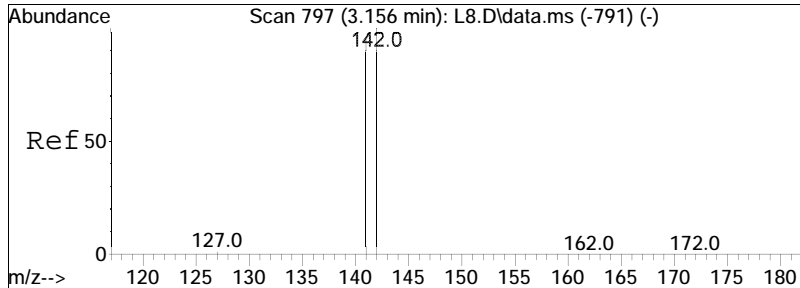




#11
 2-Methylnaphthalene
 Concen: 5.12 ug/ml
 RT: 3.250 min Scan# 831
 Delta R.T. 0.017 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

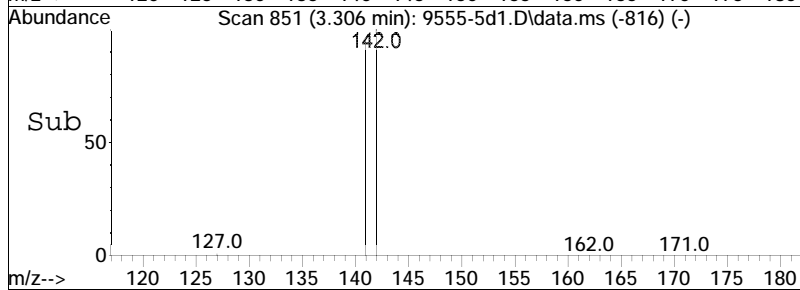
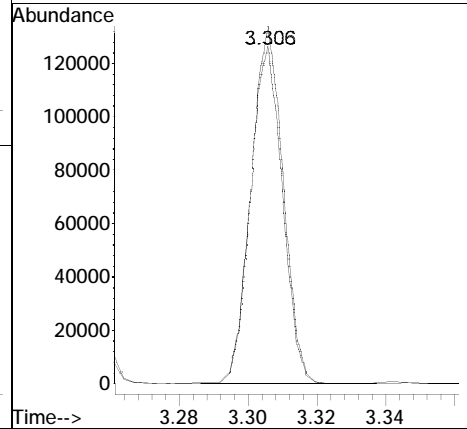
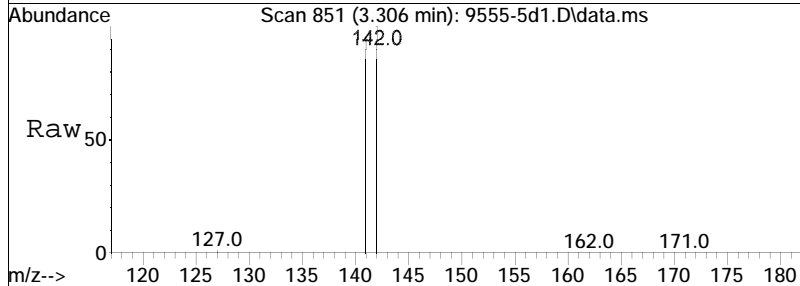
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.4	74.2	111.4

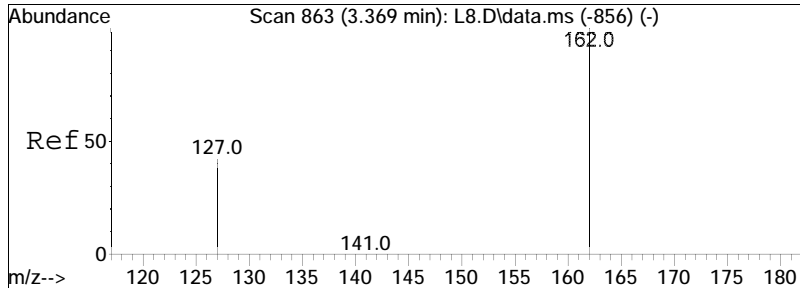




#12
 1-Methylnaphthalene
 Concen: 4.87 ug/ml
 RT: 3.306 min Scan# 851
 Delta R.T. 0.017 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

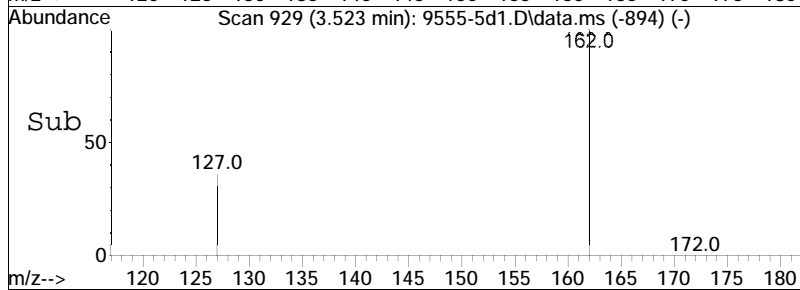
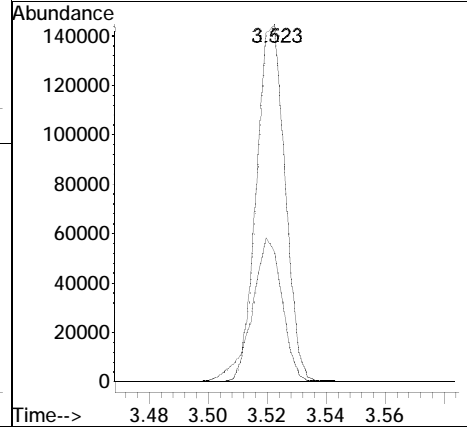
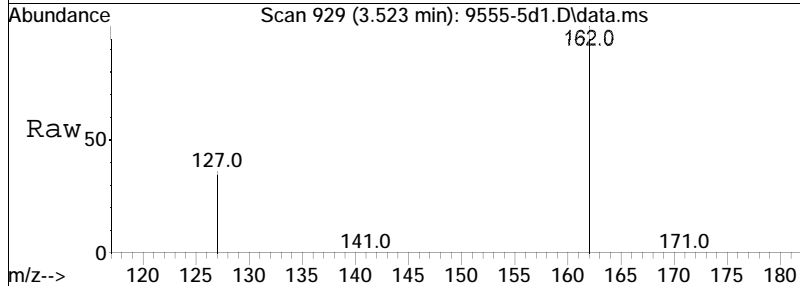
Tgt Ion	Resp	Lower	Upper
142	100		
141	95.1	76.7	115.1

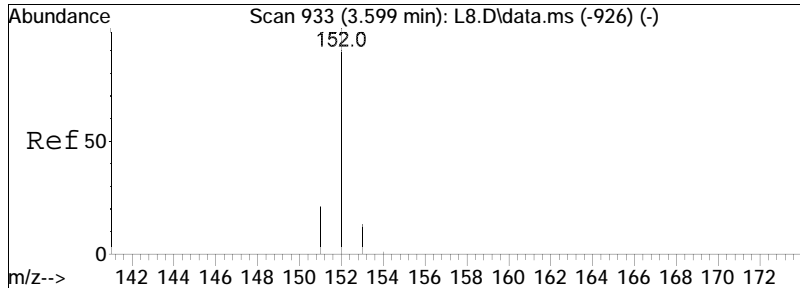




#14
 2-Chloronaphthalene
 Concen: 5.10 ug/ml
 RT: 3.523 min Scan# 929
 Delta R.T. 0.017 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

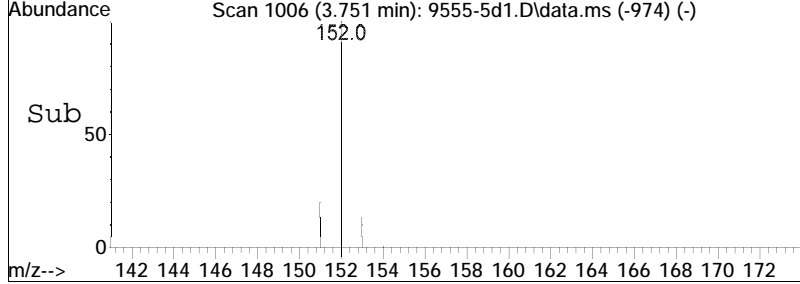
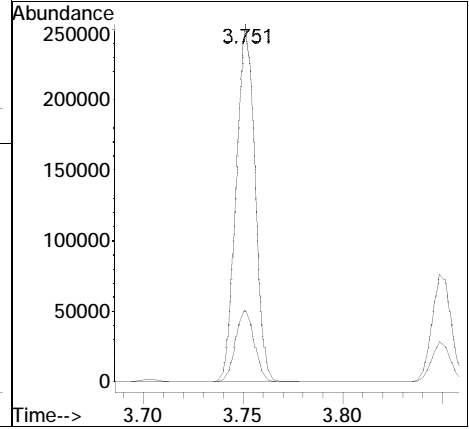
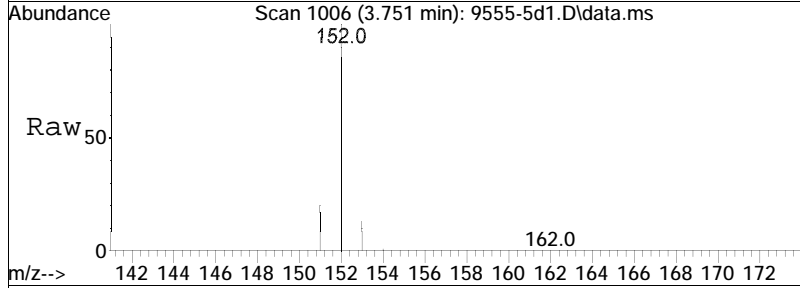
Tgt Ion	Resp	Lower	Upper
162	100		
127	43.2	31.5	47.3

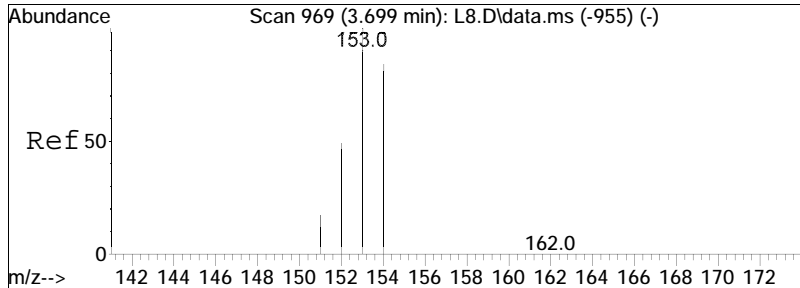




#15
 Acenaphthylene
 Concen: 6.05 ug/ml
 RT: 3.751 min Scan# 1006
 Delta R.T. 0.017 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

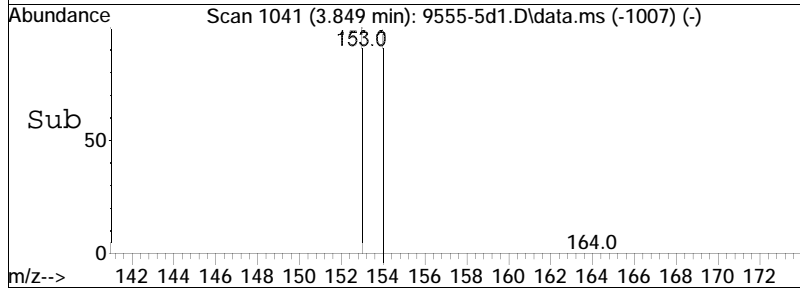
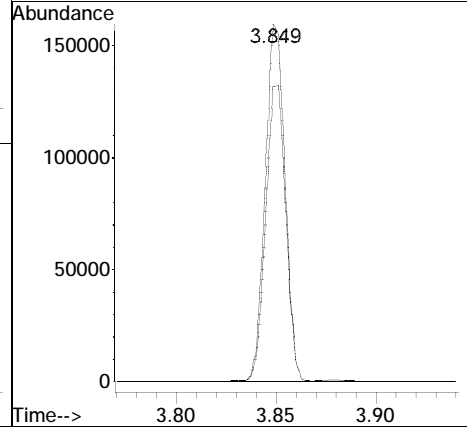
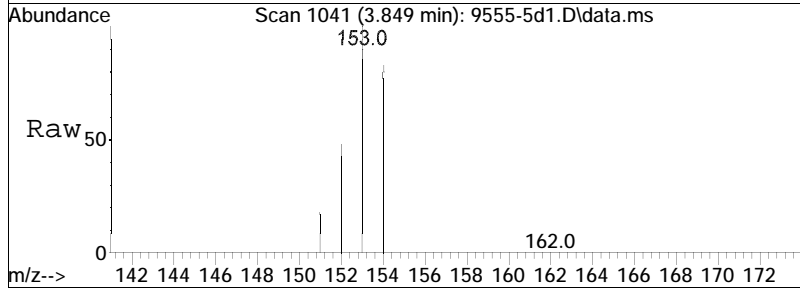
Tgt Ion	Resp	Lower	Upper
152	100		
151	20.2	16.3	24.5

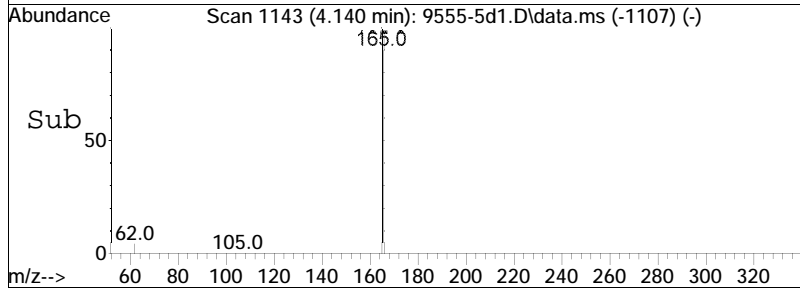
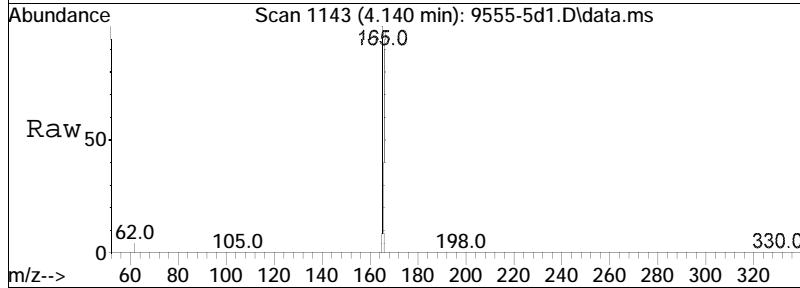
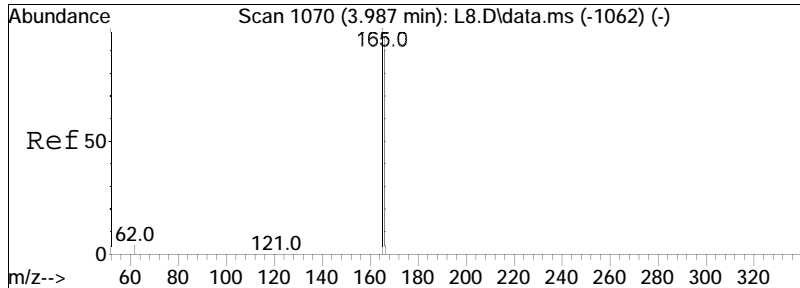




#17
 Acenaphthene
 Concen: 5.04 ug/ml
 RT: 3.849 min Scan# 1041
 Delta R.T. 0.014 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

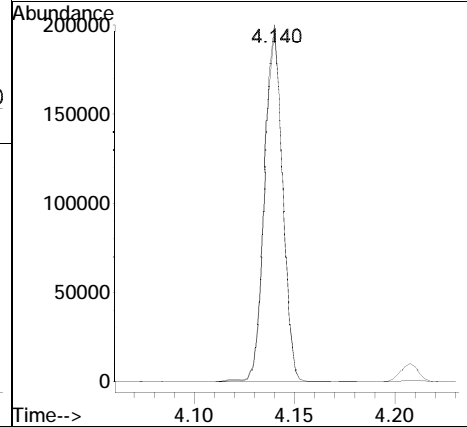
Tgt Ion	Resp	Lower	Upper
153	100		
154	84.1	70.8	106.2

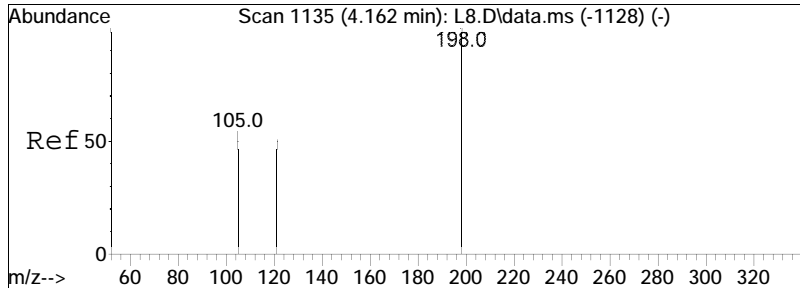




#18
 Fluorene
 Concen: 5.46 ug/ml
 RT: 4.140 min Scan# 1143
 Delta R.T. 0.013 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

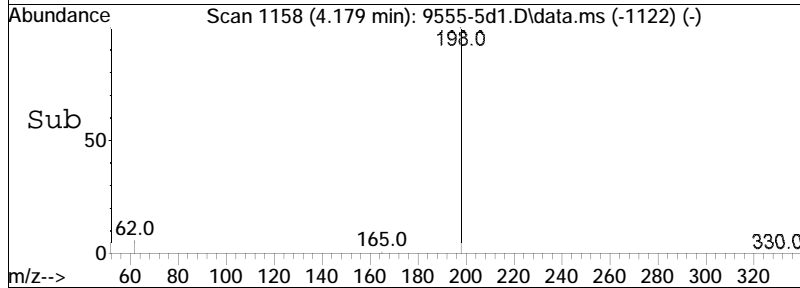
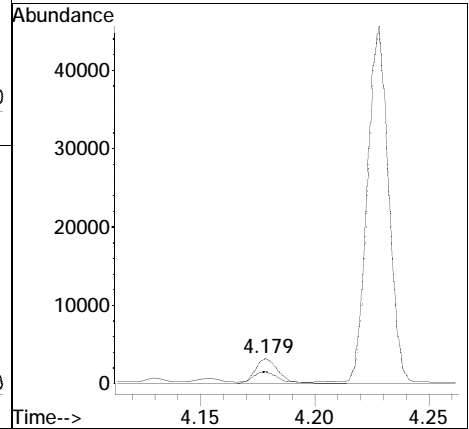
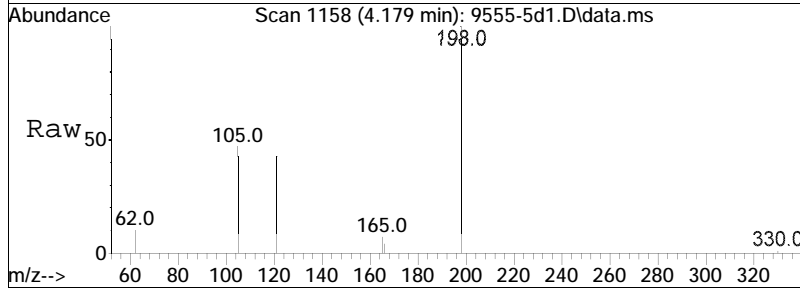
Tgt Ion	Resp	Lower	Upper
166	100		
165	102.7	82.2	123.2

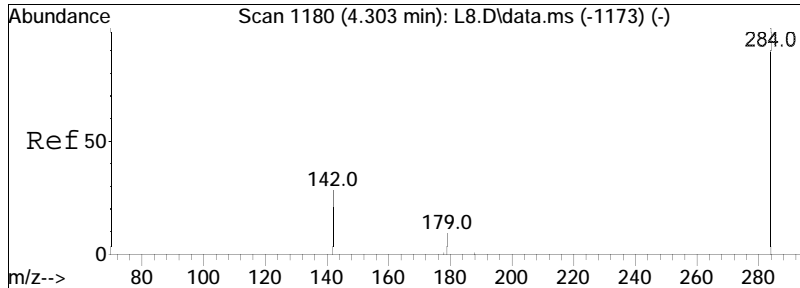




#21
 4,6-Dinitro-o-cresol
 Concen: 1.37 ug/ml
 RT: 4.179 min Scan# 1158
 Delta R.T. 0.013 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

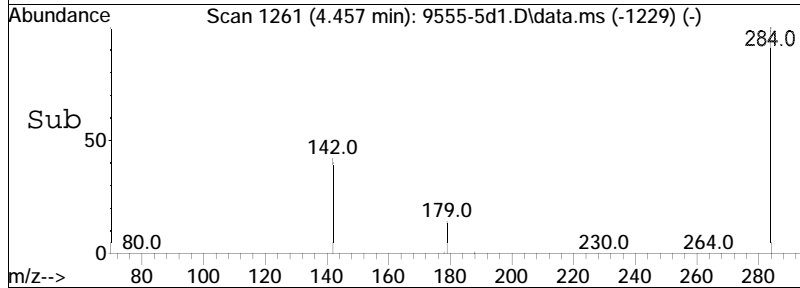
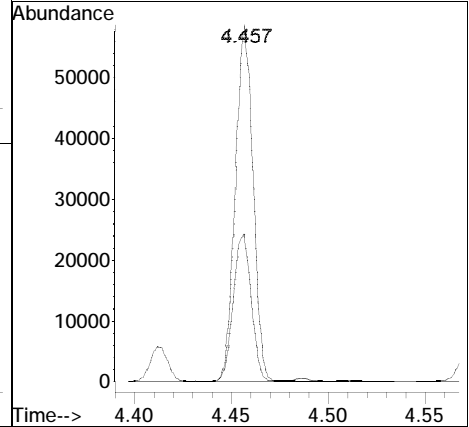
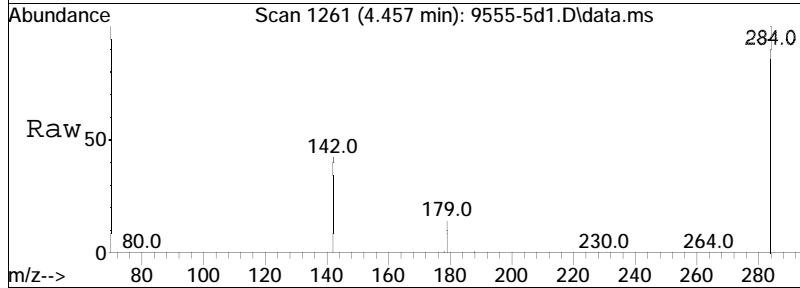
Tgt Ion	Resp	Lower	Upper
198	100		
105	39.0	37.7	56.5

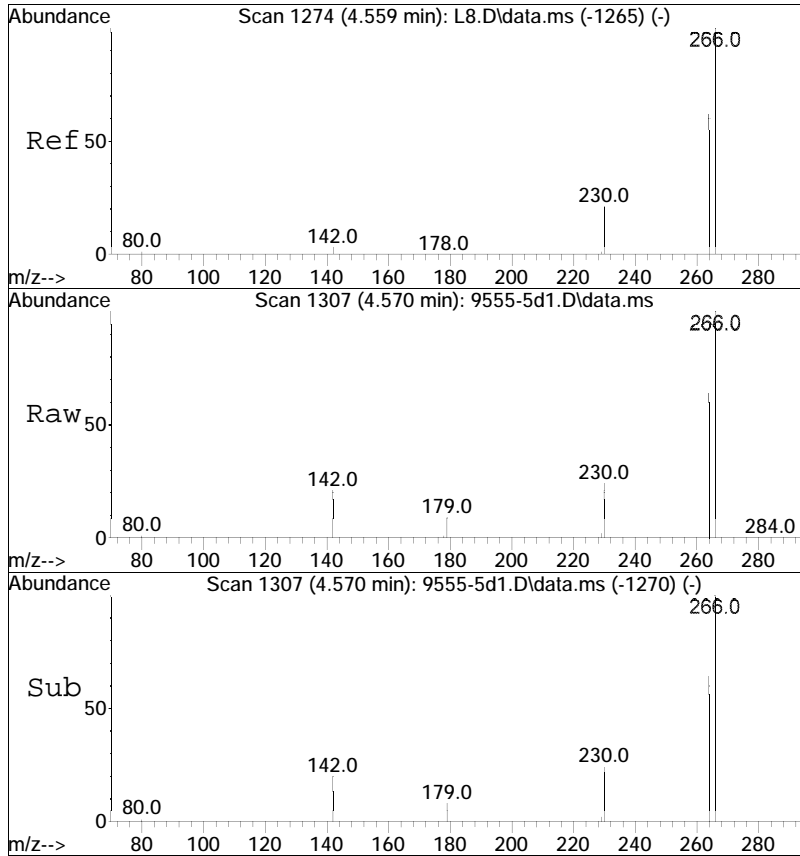




#22
 Hexachlorobenzene
 Concen: 4.36 ug/ml
 RT: 4.457 min Scan# 1261
 Delta R.T. 0.012 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

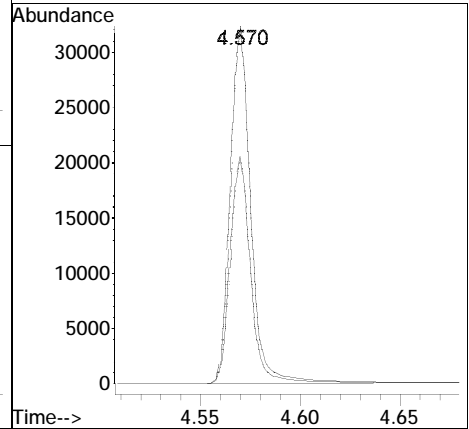
Tgt Ion: 284 Resp: 36489
 Ion Ratio Lower Upper
 284 100
 142 42.2 29.2 43.8

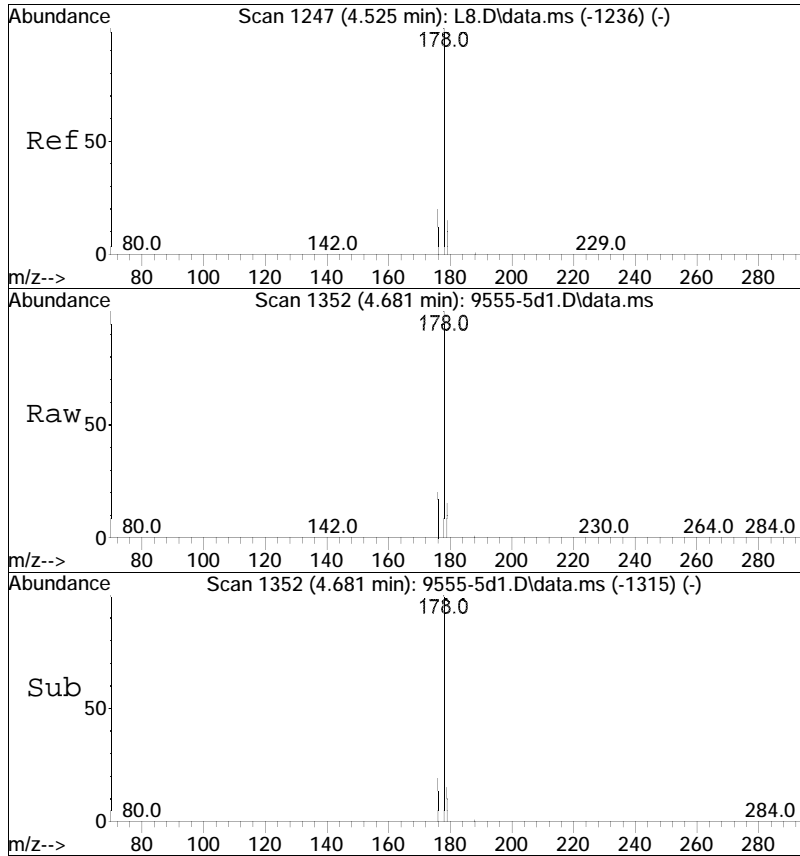




#23
 Pentachlorophenol
 Concen: 6.12 ug/ml
 RT: 4.570 min Scan# 1307
 Delta R.T. 0.012 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

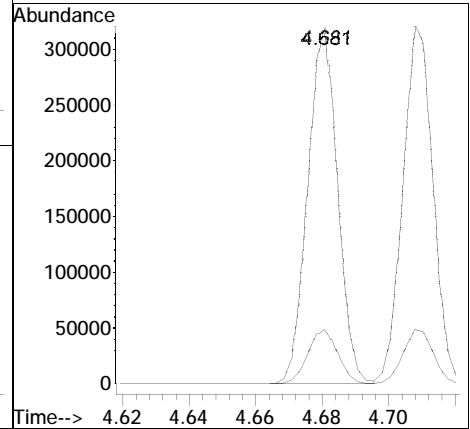
Tgt Ion	Resp	Lower	Upper
266	100		
264	63.8	50.6	76.0

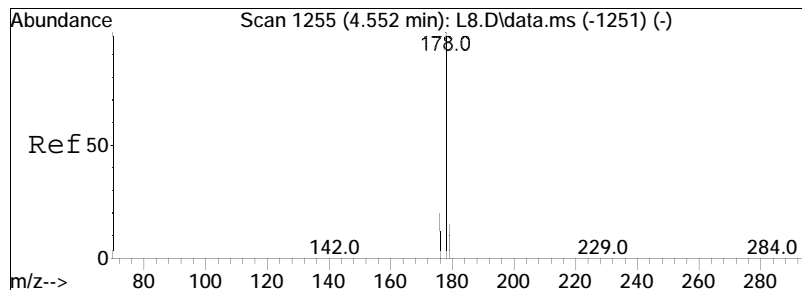




#24
 Phenanthrene
 Concen: 5.15 ug/ml
 RT: 4.681 min Scan# 1352
 Delta R.T. 0.012 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

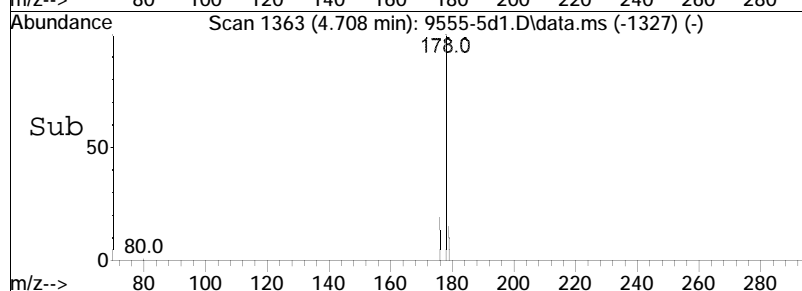
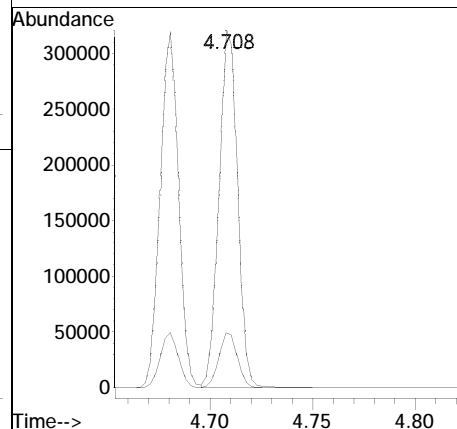
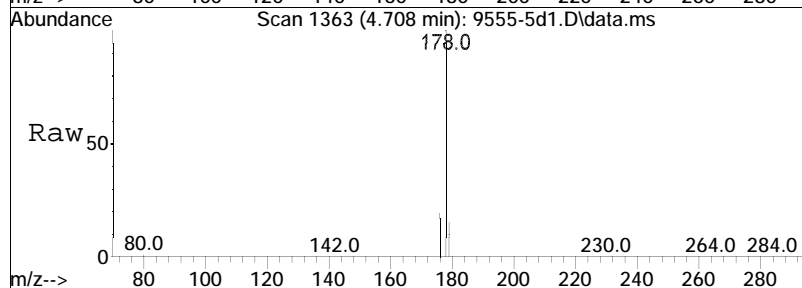
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.3	18.5

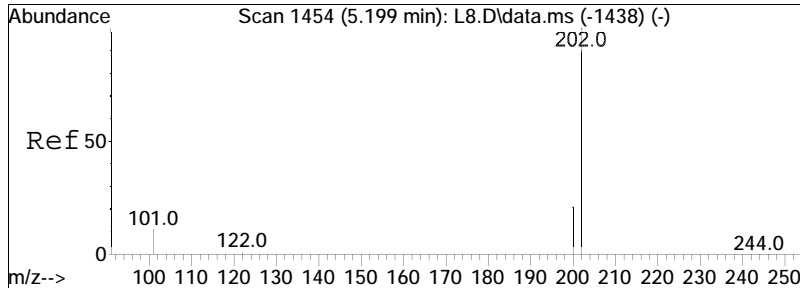




#25
 Anthracene
 Concen: 5.59 ug/ml
 RT: 4.708 min Scan# 1363
 Delta R.T. 0.010 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

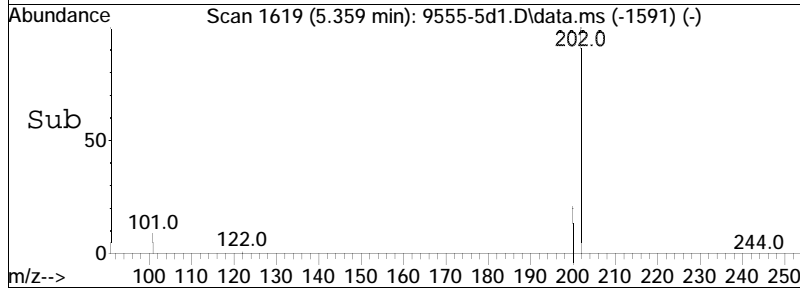
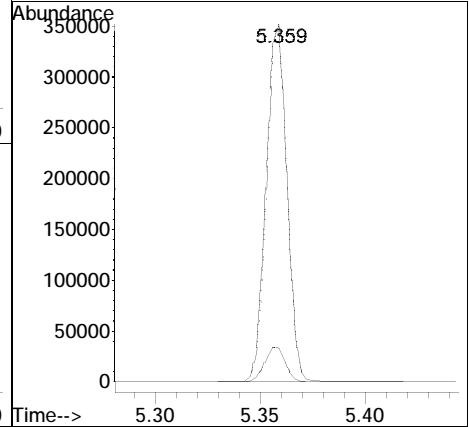
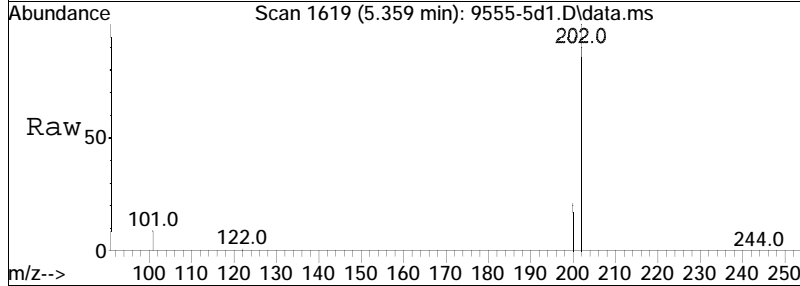
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.2	12.2	18.2

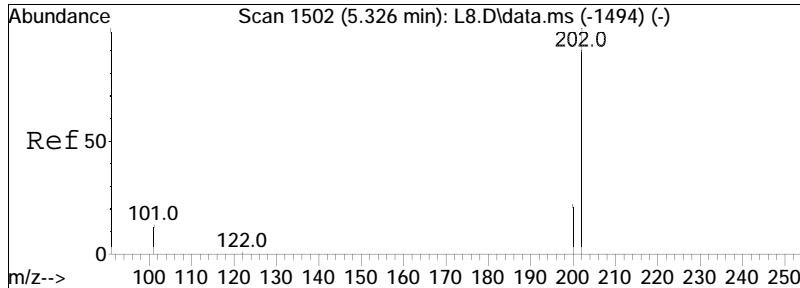




#27
 Fluoranthene
 Concen: 5.71 ug/ml
 RT: 5.359 min Scan# 1619
 Delta R.T. -0.005 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

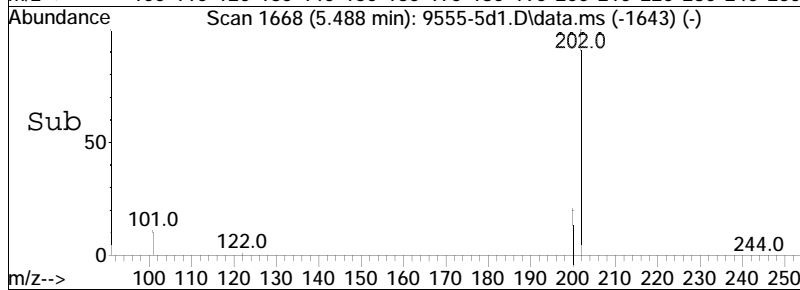
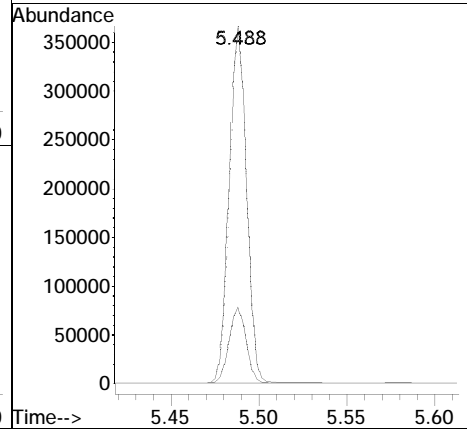
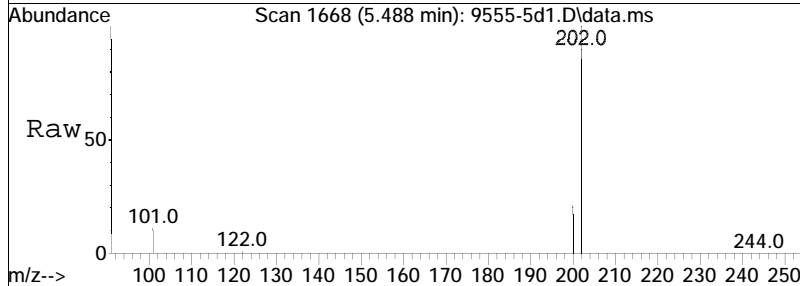
Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.7	9.3	13.9

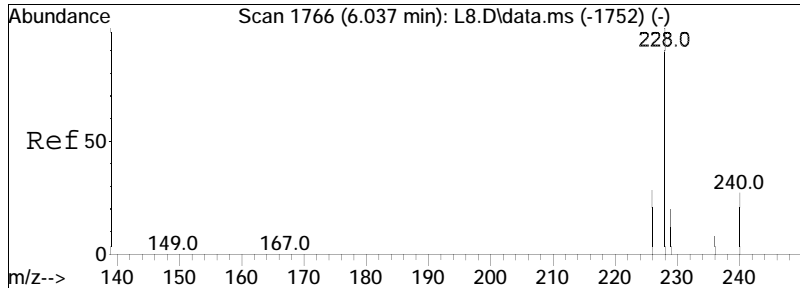




#28
 Pyrene
 Concen: 5.75 ug/ml
 RT: 5.488 min Scan# 1668
 Delta R.T. -0.013 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

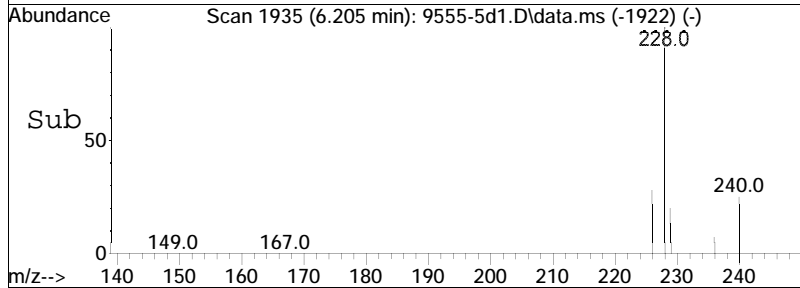
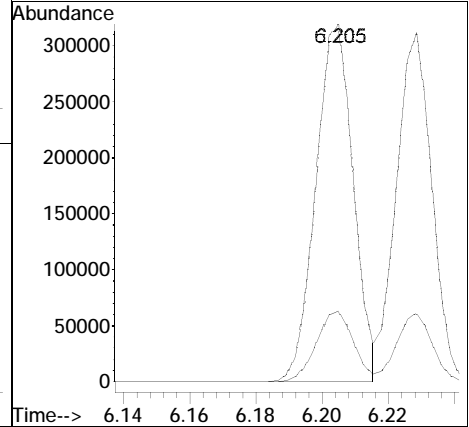
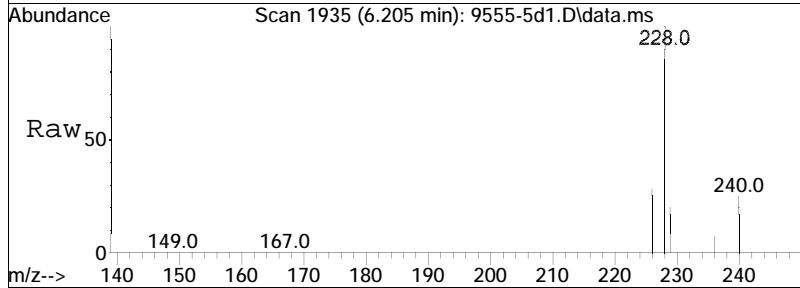
Tgt Ion	Resp	Lower	Upper
202	247507		
200	21.3	17.4	26.2

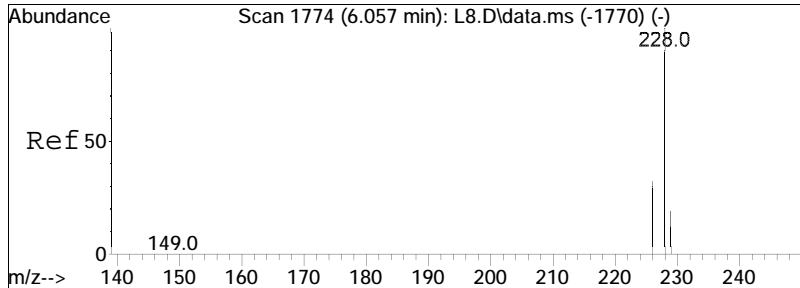




#31
 Benzo[a]anthracene
 Concen: 5.82 ug/ml
 RT: 6.205 min Scan# 1935
 Delta R.T. -0.047 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

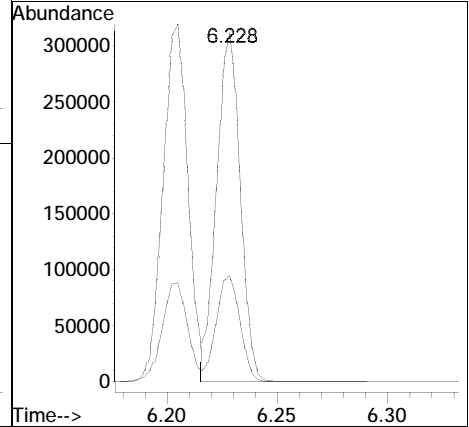
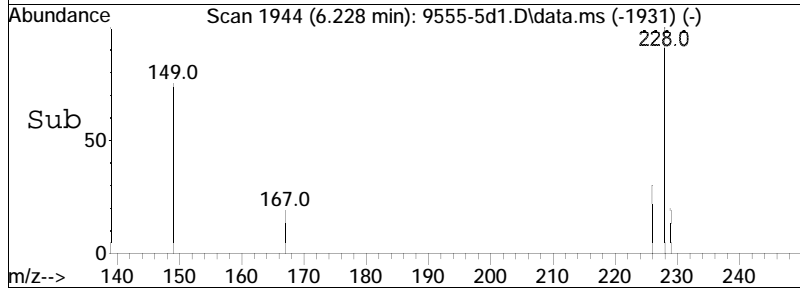
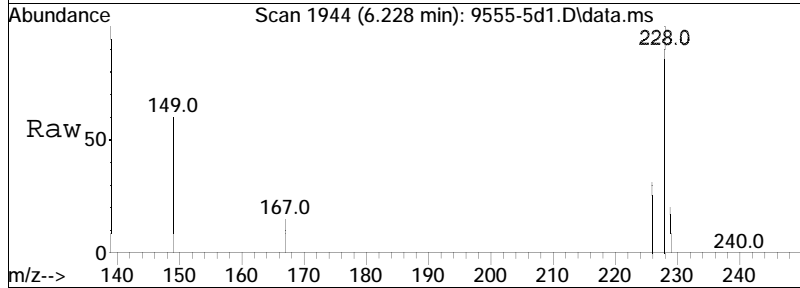
Tgt Ion	Resp	Lower	Upper
228	100		
229	19.5	15.6	23.4

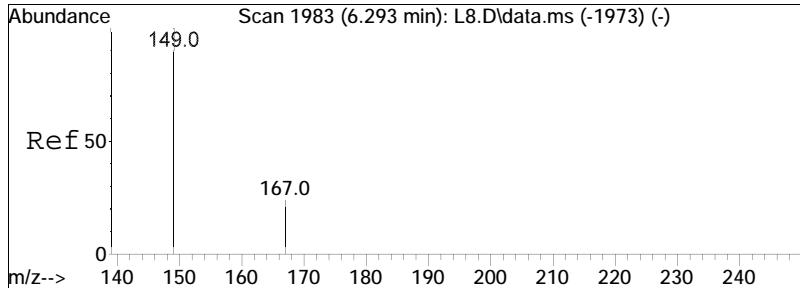




#32
 Chrysene
 Concen: 5.10 ug/ml
 RT: 6.228 min Scan# 1944
 Delta R.T. -0.047 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

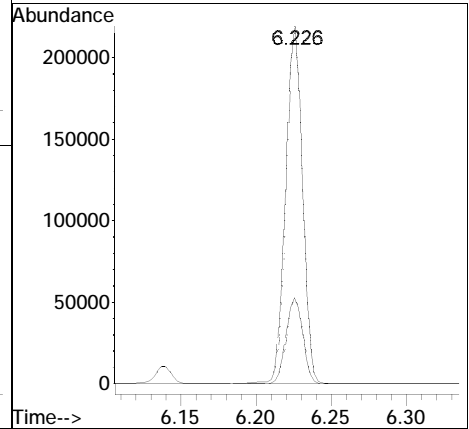
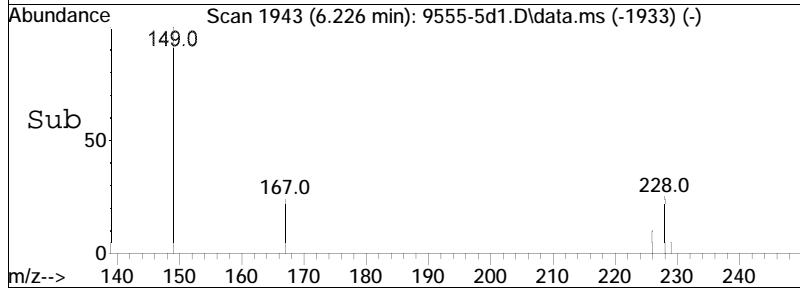
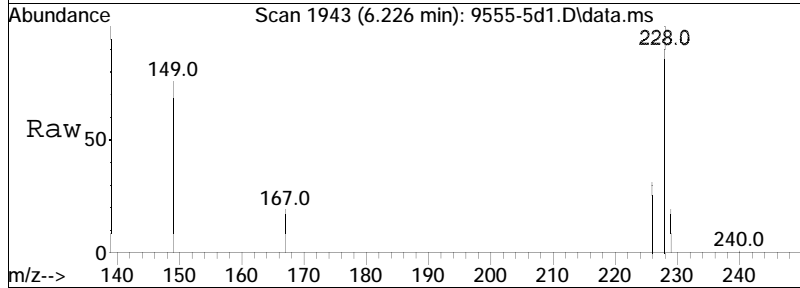
Tgt Ion	Resp	Lower	Upper
228	100		
226	30.7	24.9	37.3

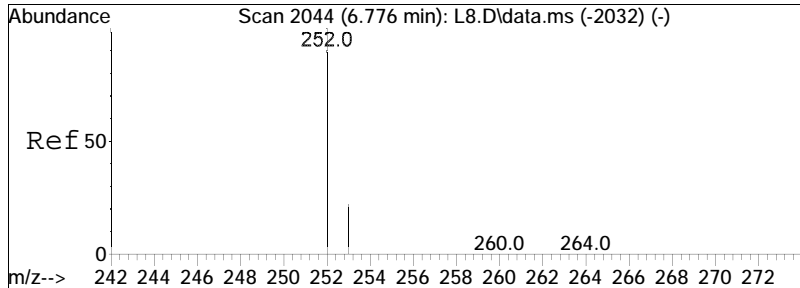




#33
 Bis(2-ethylhexyl)phthalate
 Concen: 7.54 ug/ml
 RT: 6.226 min Scan# 1943
 Delta R.T. -0.055 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

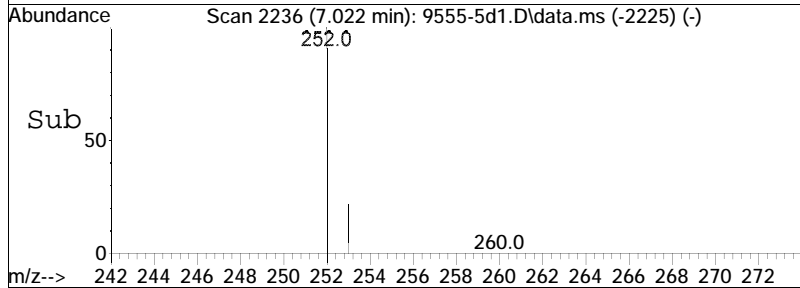
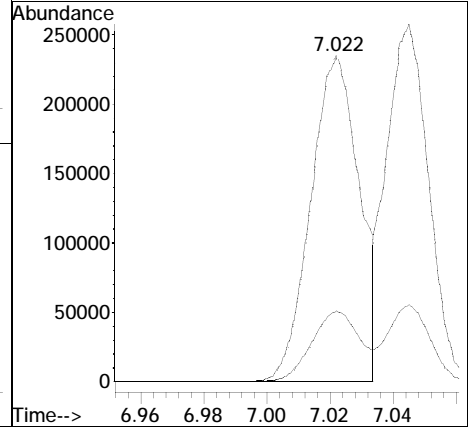
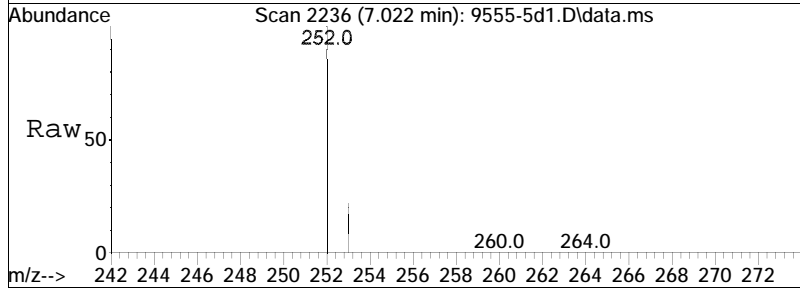
Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.1	18.2	27.2

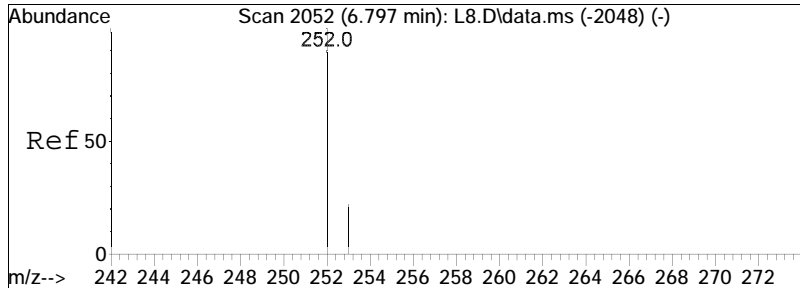




#35
 Benzo[b]fluoranthene
 Concen: 5.57 ug/ml
 RT: 7.022 min Scan# 2236
 Delta R.T. -0.050 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

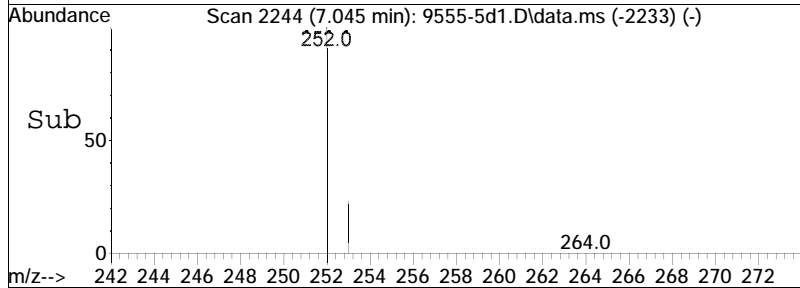
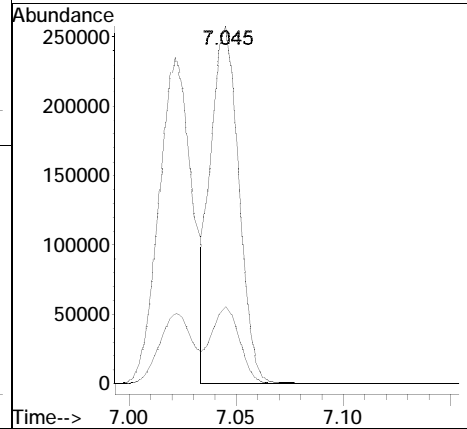
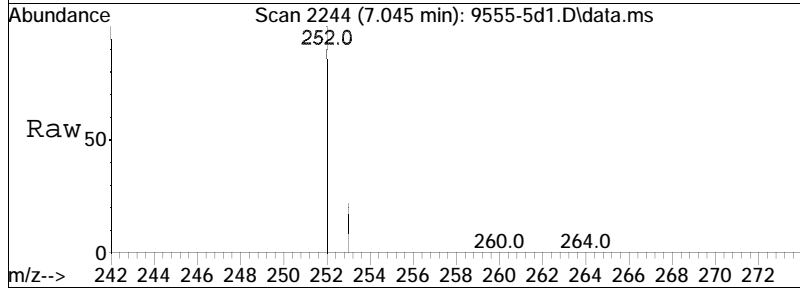
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.6	17.2	25.8

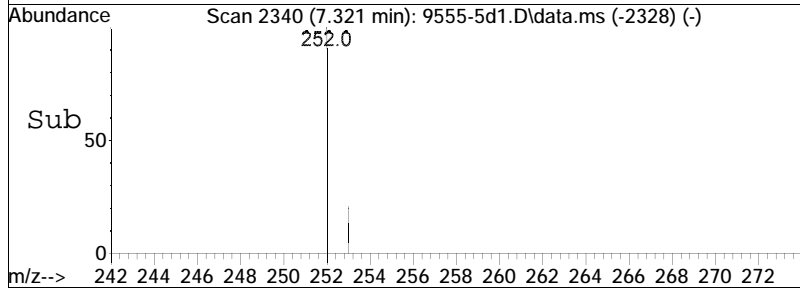
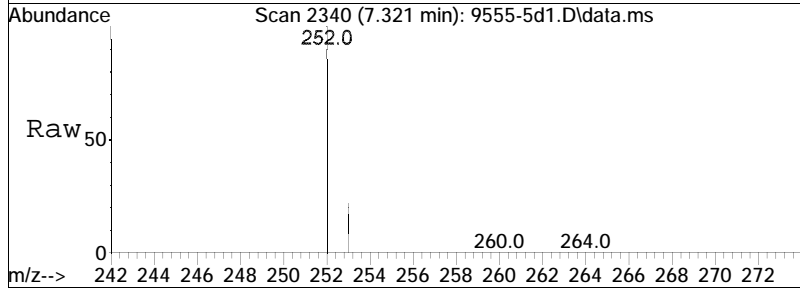
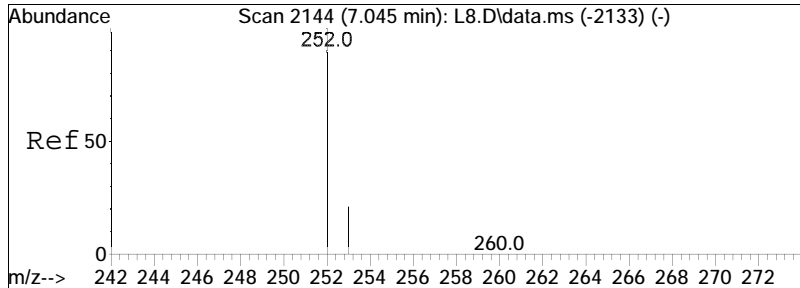




#36
 Benzo[k]fluoranthene
 Concen: 5.23 ug/ml
 RT: 7.045 min Scan# 2244
 Delta R.T. -0.050 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

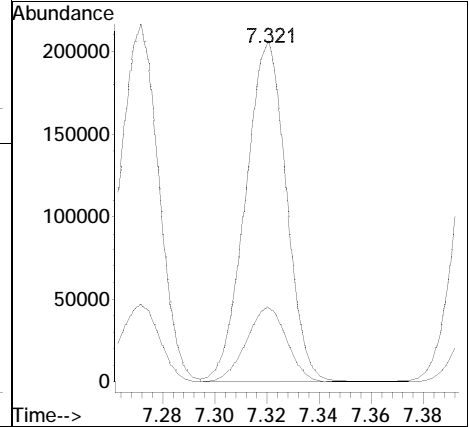
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.8	17.4	26.0

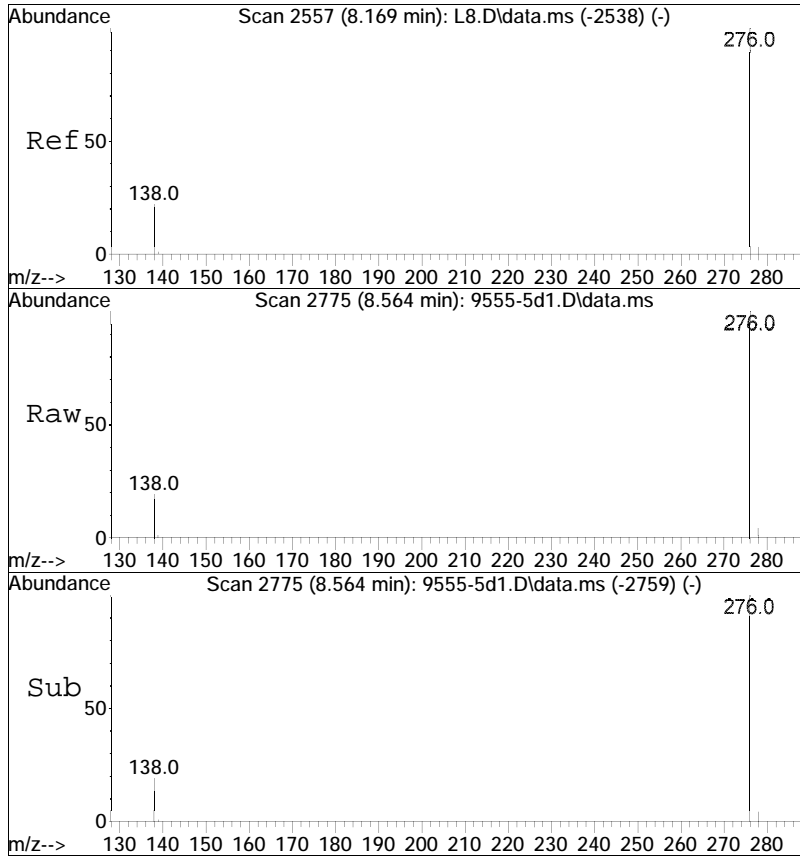




#37
 Benzo[a]pyrene
 Concen: 5.99 ug/ml
 RT: 7.321 min Scan# 2340
 Delta R.T. -0.047 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

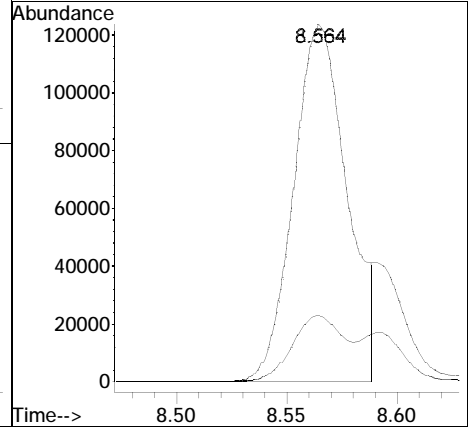
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.7	16.8	25.2

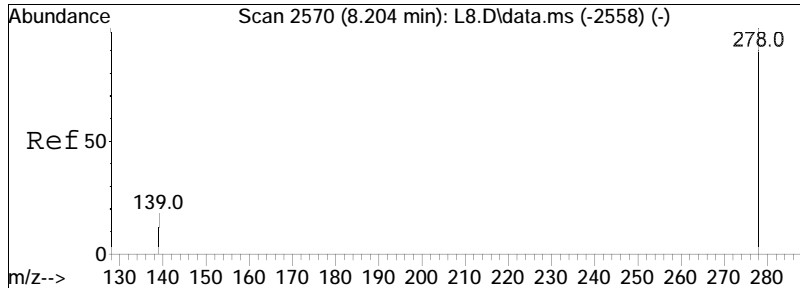




#38
 Indeno[1,2,3-cd]pyrene
 Concen: 6.05 ug/ml M6
 RT: 8.564 min Scan# 2775
 Delta R.T. -0.036 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

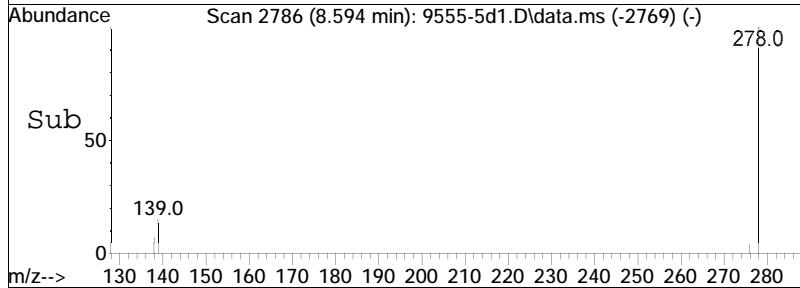
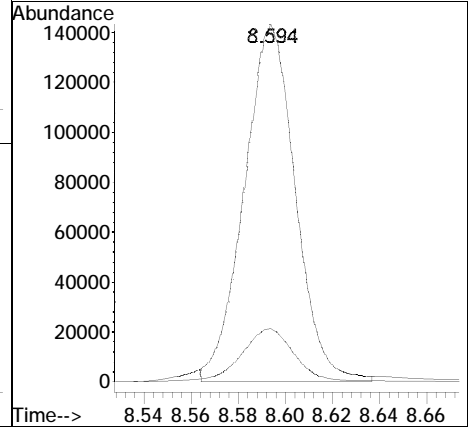
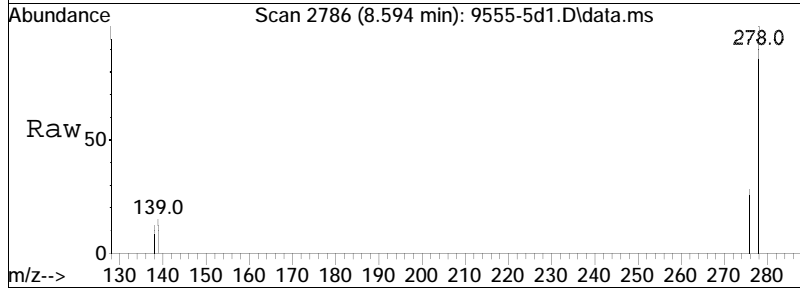
Tgt Ion	Resp	Lower	Upper
276	208039		
138	17.7	17.9	26.9#

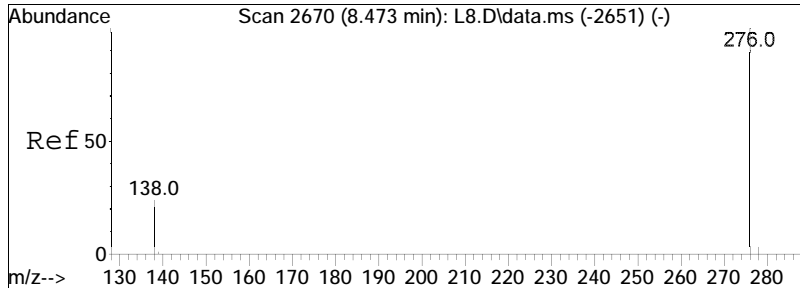




#39
 Dibenzo[a,h]anthracene
 Concen: 5.44 ug/ml M6
 RT: 8.594 min Scan# 2786
 Delta R.T. -0.033 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

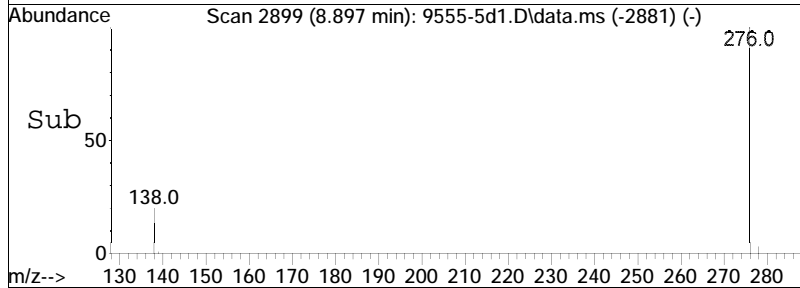
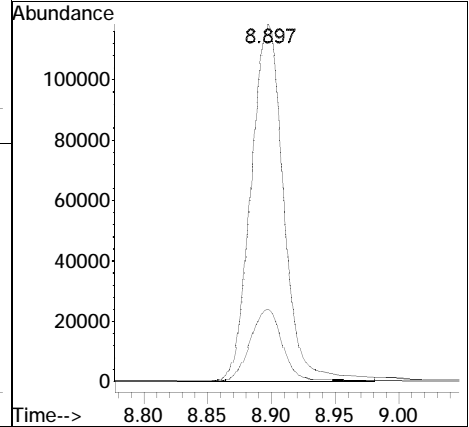
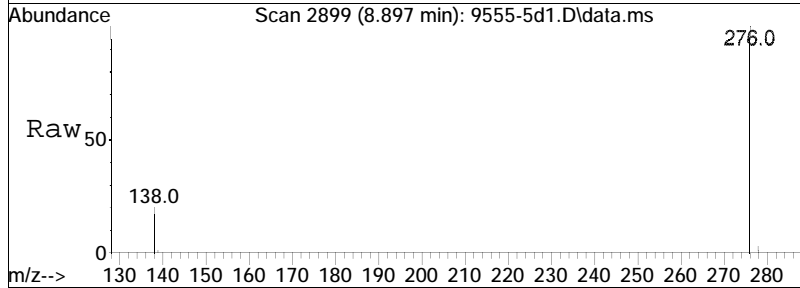
Tgt Ion	Resp	Lower	Upper
278	100		
139	15.2	15.9	23.9#





#40
 Benzo[g,h,i]perylene
 Concen: 4.79 ug/ml M1
 RT: 8.897 min Scan# 2899
 Delta R.T. -0.031 min
 Lab File: 9555-5d1.D
 Acq: 08 Aug 2023 03:13 pm

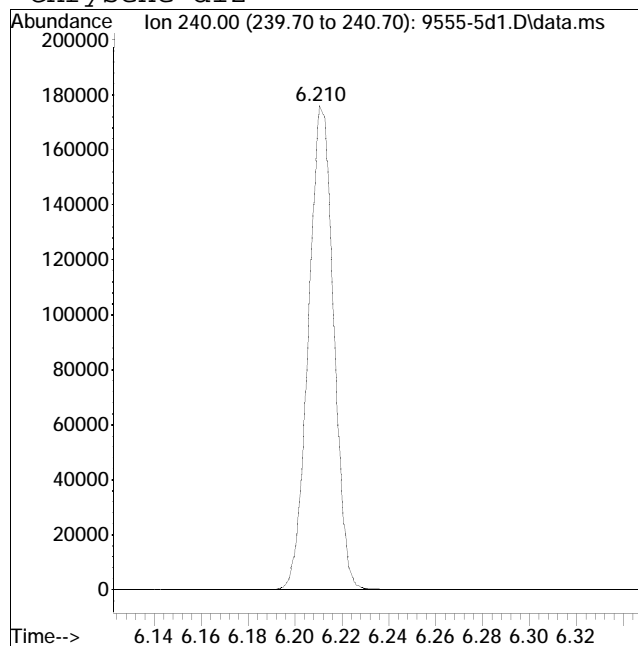
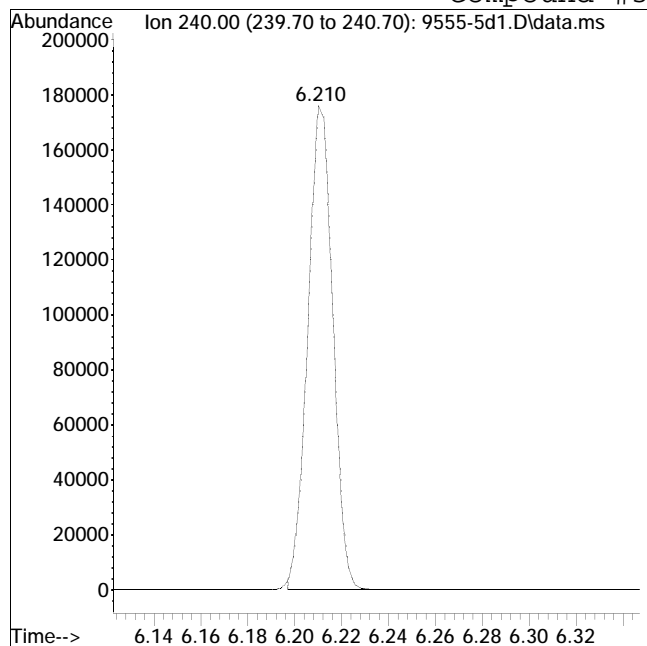
Tgt Ion	Resp	Lower	Upper
276	100		
138	19.6	20.1	30.1#



Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 9555-5d1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 3:13 pm Instrument : SV120
Sample : Wg1809555-5,32,5,RV,TIC Quant Date : 8/8/2023 3:26 pm

Compound #30: Chrysene-d12



Original Peak Response = 130709

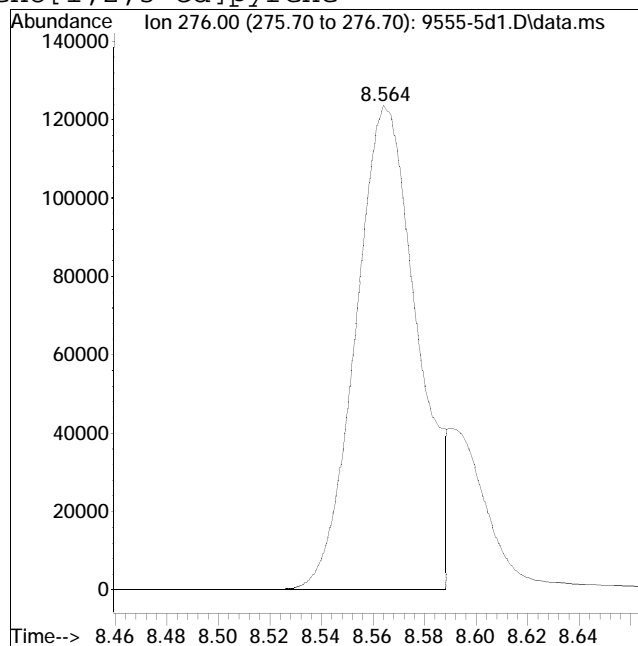
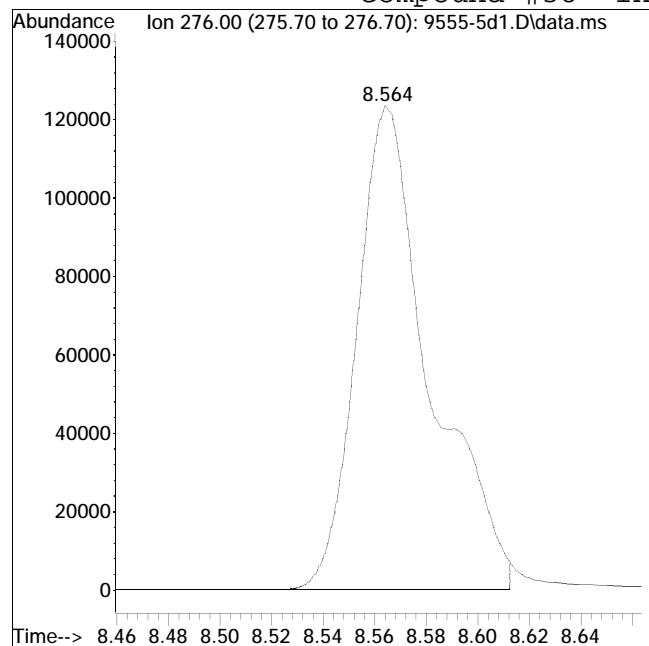
Manual Peak Response = 132216 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 9555-5d1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 3:13 pm Instrument : SV120
Sample : Wg1809555-5,32,5,RV,TIC Quant Date : 8/8/2023 3:26 pm

Compound #38: Indeno[1,2,3-cd]pyrene



Original Peak Response = 244225

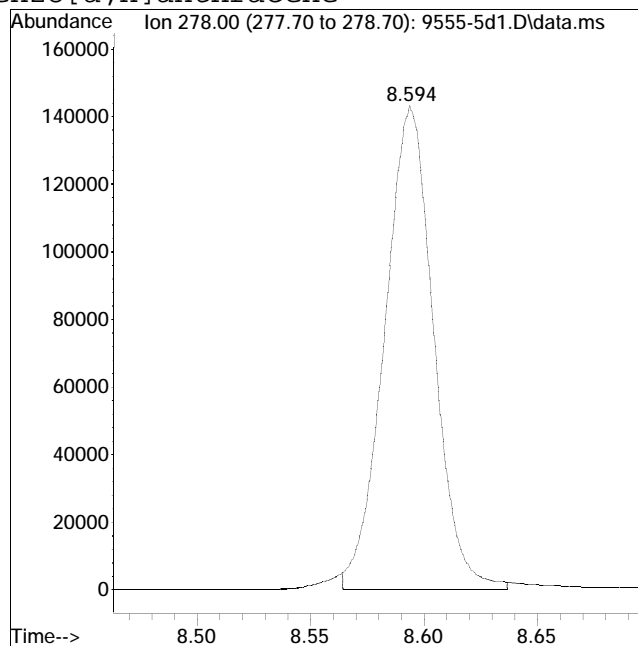
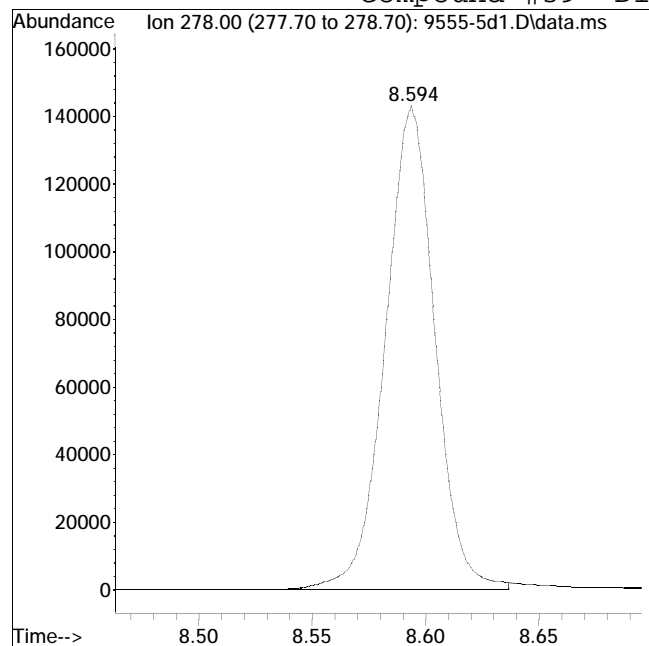
Manual Peak Response = 208039 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 9555-5d1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 3:13 pm Instrument : SV120
Sample : Wg1809555-5,32,5,RV,TIC Quant Date : 8/8/2023 3:26 pm

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 217559

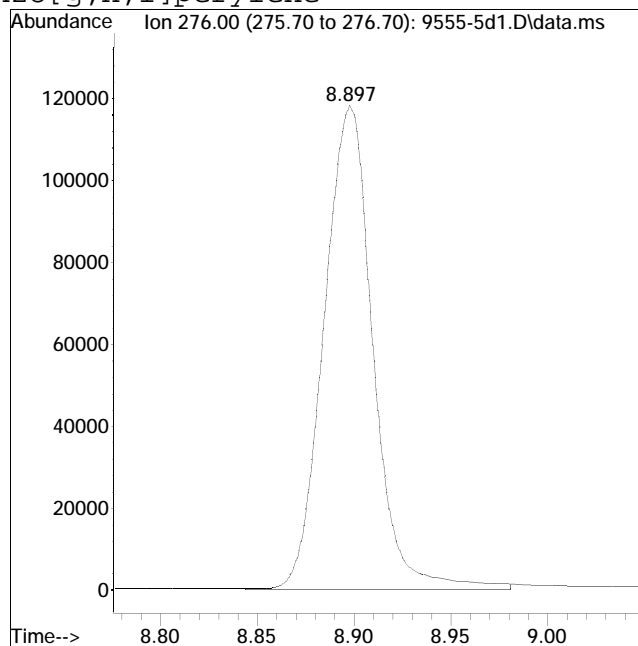
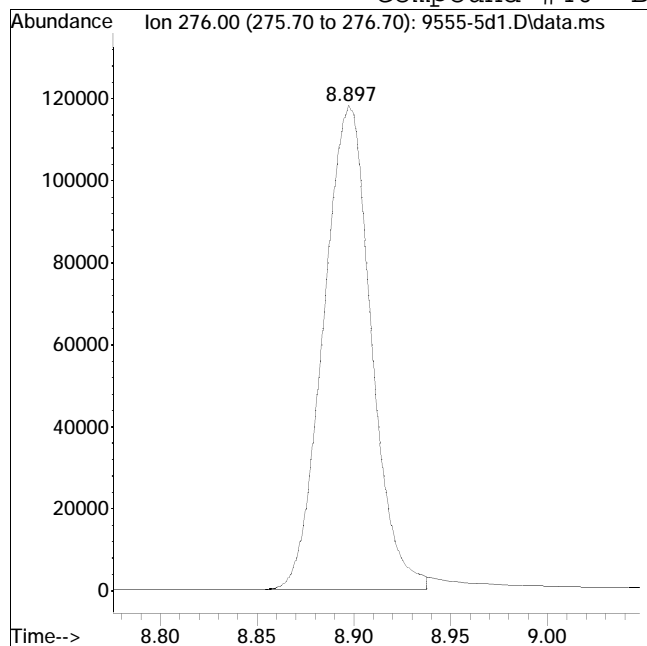
Manual Peak Response = 214836 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 9555-5d1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 3:13 pm Instrument : SV120
Sample : Wg1809555-5,32,5,RV,TIC Quant Date : 8/8/2023 3:26 pm

Compound #40: Benzo[g,h,i]perylene



Original Peak Response = 202597

Manual Peak Response = 209255 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 9555-7d1.D
 Acq On : 08 Aug 2023 03:46 pm
 Operator : SV120:jjw
 Sample : Wg1809555-7,32,5,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 09 09:18:04 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230808ST\ccv0808.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.201	152	25512	4.000	ug/ml	0.02
Standard Area 1 = 25900			Recovery =	98.50%		
8) Naphthalene-d8	2.863	136	112343	4.000	ug/ml	0.02
Standard Area 1 = 96934			Recovery =	115.90%		
16) Acenaphthene-d10	3.832	164	59316	4.000	ug/ml	0.01
Standard Area 1 = 51703			Recovery =	114.72%		
20) Phenanthrene-d10	4.666	188	136258	4.000	ug/ml	0.00
Standard Area 1 = 107414			Recovery =	126.85%		
30) Chrysene-d12	6.210	240	129616M1	4.000	ug/ml	-0.05
Standard Area 1 = 96547			Recovery =	134.25%		
34) Perylene-d12	7.375	264	145599	4.000	ug/ml	-0.05
Standard Area 1 = 119148			Recovery =	122.20%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.610	112	31895	4.823	ug/ml	0.03
Spiked Amount 50.000	Range 15 - 110		Recovery =	9.65%#		
3) Phenol-d6	2.020	99	28353	3.471	ug/ml	0.03
Spiked Amount 50.000	Range 15 - 110		Recovery =	6.94%#		
7) Nitrobenzene-d5	2.485	82	26404	4.097	ug/ml	0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	16.39%#		
13) 2-Fluorobiphenyl	3.456	172	69158	3.115	ug/ml	0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	12.46%#		
19) 2,4,6-Tribromophenol	4.277	330	12550	4.621	ug/ml	0.01
Spiked Amount 50.000	Range 15 - 110		Recovery =	9.24%#		
26) O-Terphenyl-MS	0.000	230	0d	0.000	ug/ml	
Spiked Amount 20.000	Range 40 - 140		Recovery =	0.00%#		
29) 4-Terphenyl-d14	5.581	244	98639	3.529	ug/ml	-0.02
Spiked Amount 25.000	Range 30 - 130		Recovery =	14.12%#		
Target Compounds						
4) Hexachloroethane	2.456	117	11584	3.762	ug/ml	95
9) Naphthalene	2.873	128	120920	4.180	ug/ml	100
10) Hexachlorobutadiene	2.943	225	21626	3.990	ug/ml	100
11) 2-Methylnaphthalene	3.253	142	83681	4.607	ug/ml	99
14) 2-Chloronaphthalene	3.523	162	87998	4.580	ug/ml	95
15) Acenaphthylene	3.751	152	148530	5.372	ug/ml	100
17) Acenaphthene	3.849	153	95460	4.721	ug/ml	96
18) Fluorene	4.140	166	107551	5.052	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 9555-7d1.D
 Acq On : 08 Aug 2023 03:46 pm
 Operator : SV120:jjw
 Sample : Wg1809555-7,32,5,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 09 09:18:04 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\230808ST\ccv0808.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) Hexachlorobenzene	4.456	284	32033	3.935	ug/ml	90
23) Pentachlorophenol	4.570	266	19547	5.487	ug/ml	99
24) Phenanthrene	4.681	178	174340	4.655	ug/ml	100
25) Anthracene	4.708	178	179041	5.092	ug/ml	100
27) Fluoranthene	5.359	202	207312	5.150	ug/ml	95
28) Pyrene	5.488	202	217295	5.197	ug/ml	99
31) Benzo[a]anthracene	6.202	228	220233	5.219	ug/ml	100
32) Chrysene	6.228	228	202228	4.562	ug/ml	99
35) Benzo[b]fluoranthene	7.020	252	212124	4.797	ug/ml	100
36) Benzo[k]fluoranthene	7.043	252	213893	4.948	ug/ml	100
37) Benzo[a]pyrene	7.318	252	196849	5.465	ug/ml	99
38) Indeno[1,2,3-cd]pyrene	8.562	276	183960M6	5.512	ug/ml	
39) Dibenzo[a,h]anthracene	8.591	278	188440M6	4.917	ug/ml	
40) Benzo[g,h,i]perylene	8.895	276	182385M1	4.307	ug/ml	

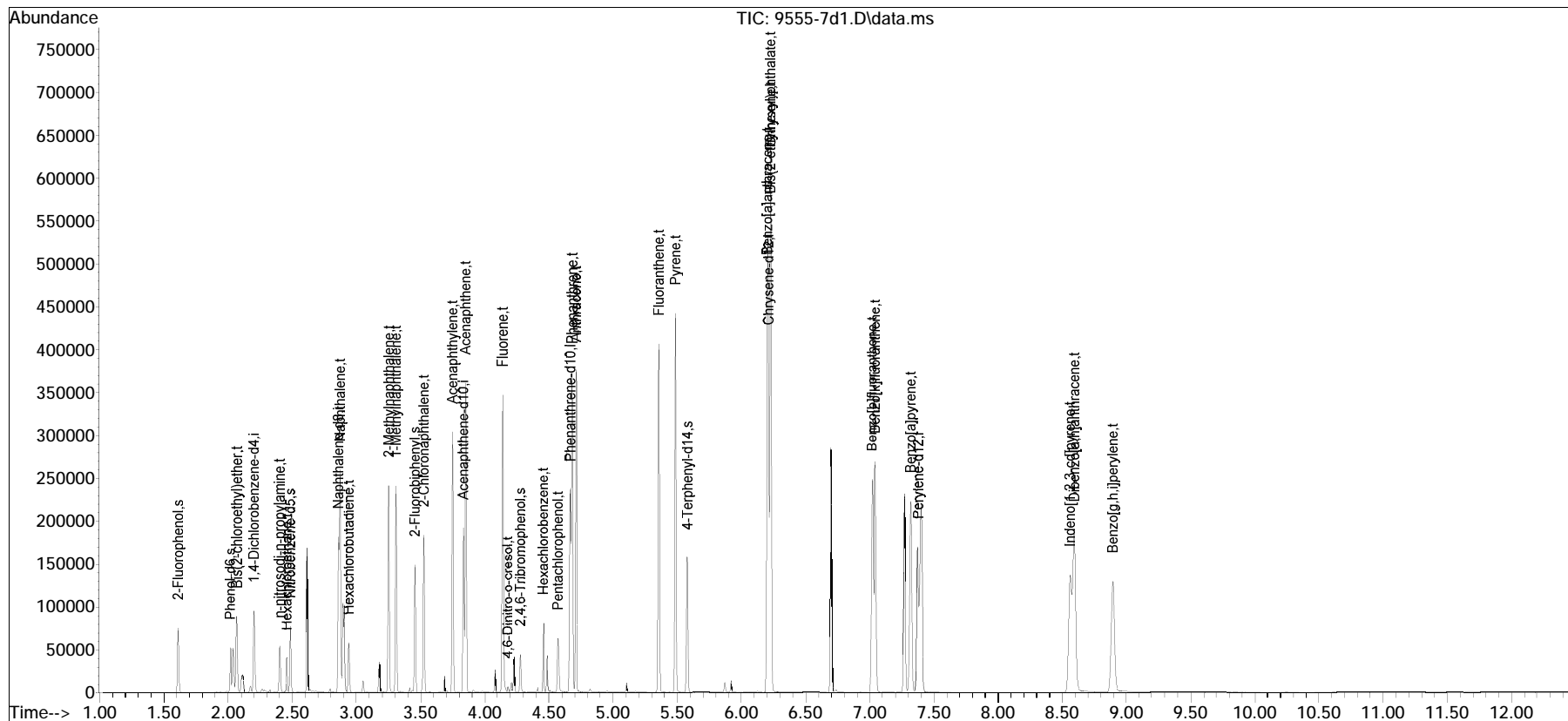
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

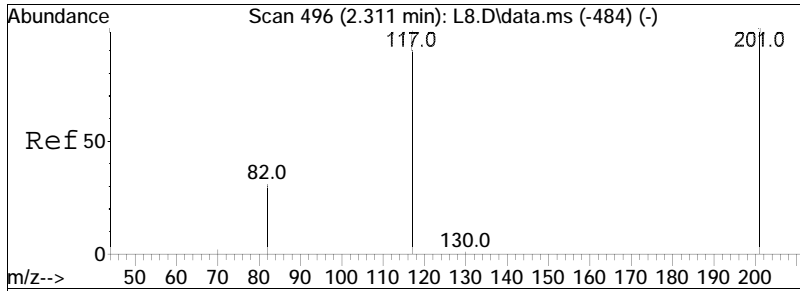
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\230808ST\
 Data File : 9555-7d1.D
 Acq On : 08 Aug 2023 03:46 pm
 Operator : SV120:jjw
 Sample : Wg1809555-7,32,5,RV,TIC
 Misc : WG1813153,wg1809555,ical19770
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 09 09:18:04 2023
 Quant Method : I:\8270sim\sv120\230808ST\simtech230222-sv120.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Tue Aug 08 08:27:51 2023
 Response via : Initial Calibration

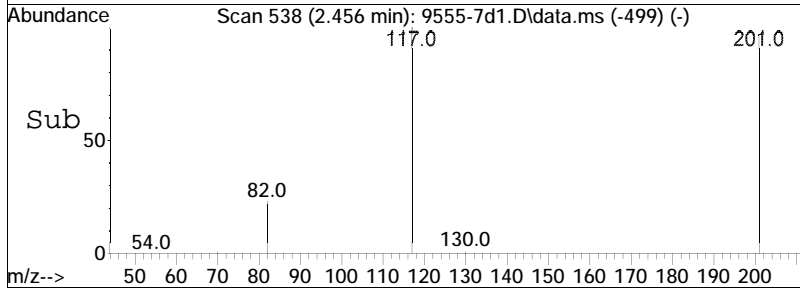
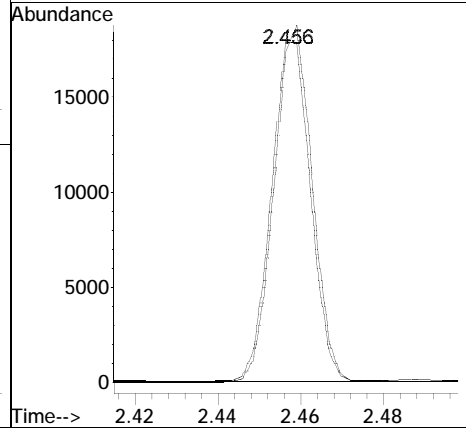
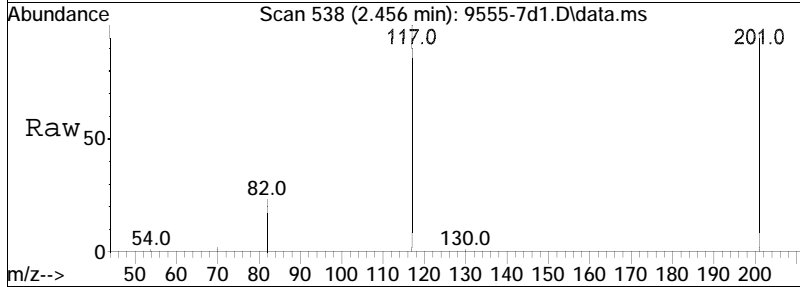
Sub List : DEFAULT - All compounds listedccv0808.D•

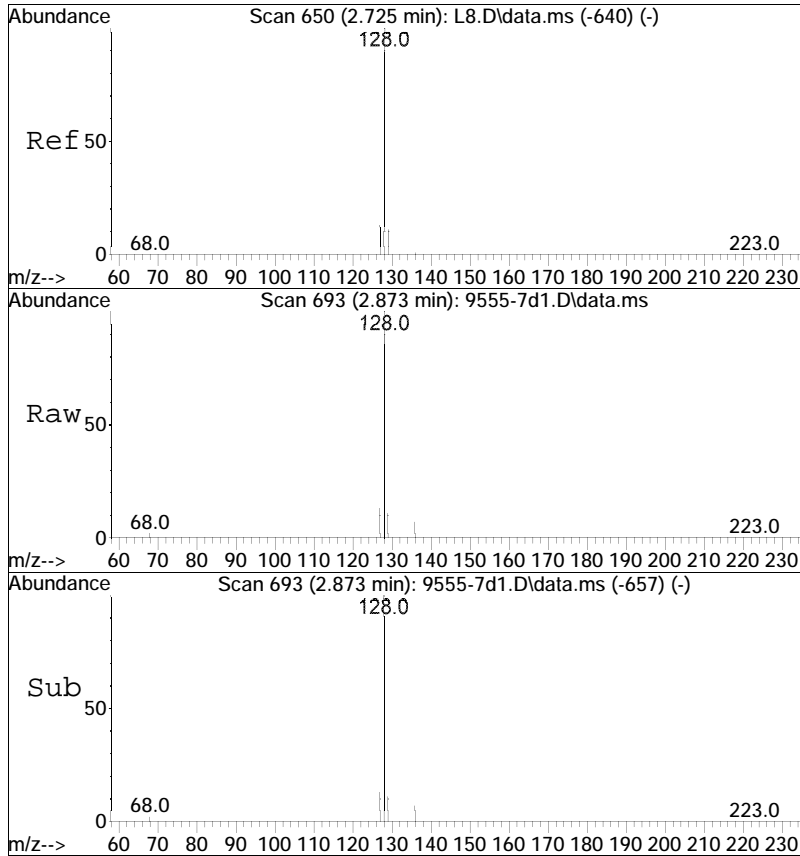




#4
 Hexachloroethane
 Concen: 3.76 ug/ml
 RT: 2.456 min Scan# 538
 Delta R.T. 0.021 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

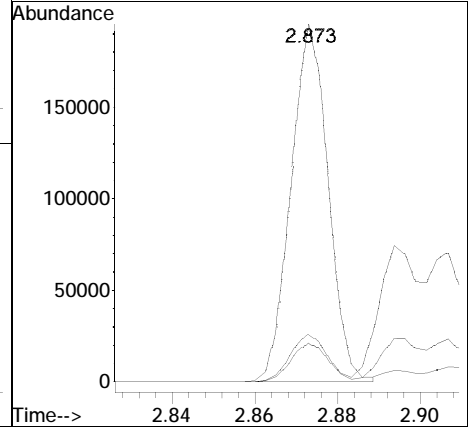
Tgt Ion: 117 Resp: 11584
 Ion Ratio Lower Upper
 117 100
 201 101.7 77.1 115.7

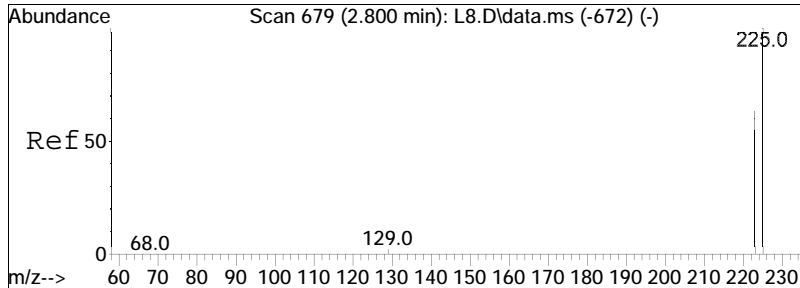




#9
 Naphthalene
 Concen: 4.18 ug/ml
 RT: 2.873 min Scan# 693
 Delta R.T. 0.021 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

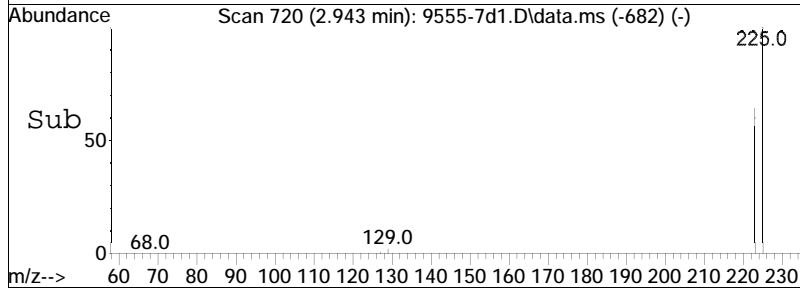
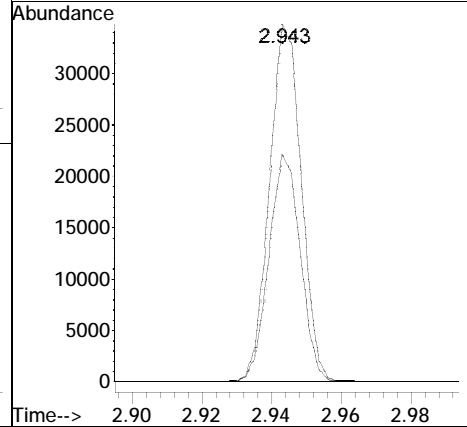
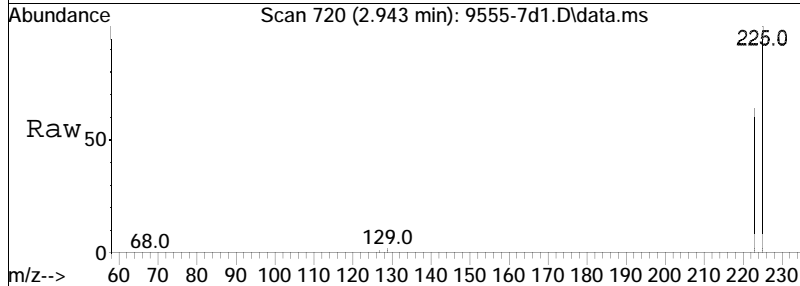
Tgt Ion	Resp	Lower	Upper
128	120920		
129	10.9	8.7	13.1
127	13.4	10.8	16.2

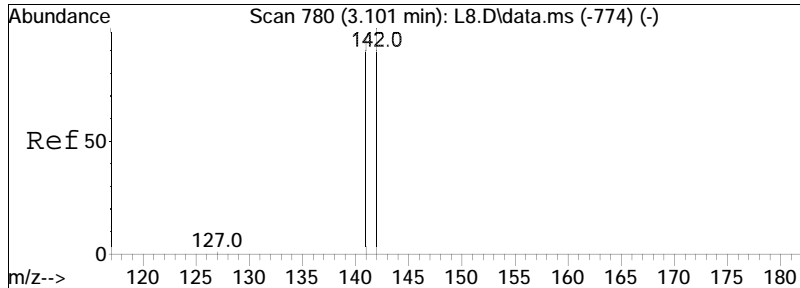




#10
 Hexachlorobutadiene
 Concen: 3.99 ug/ml
 RT: 2.943 min Scan# 720
 Delta R.T. 0.018 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

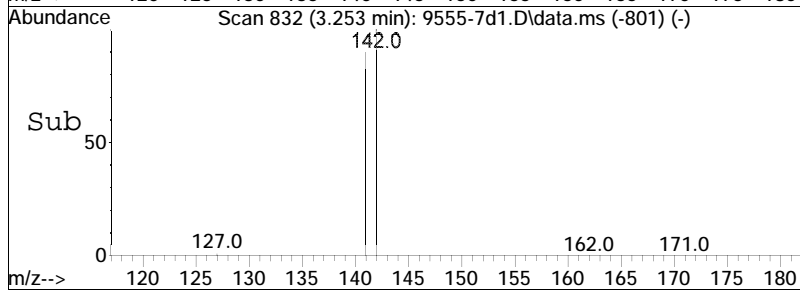
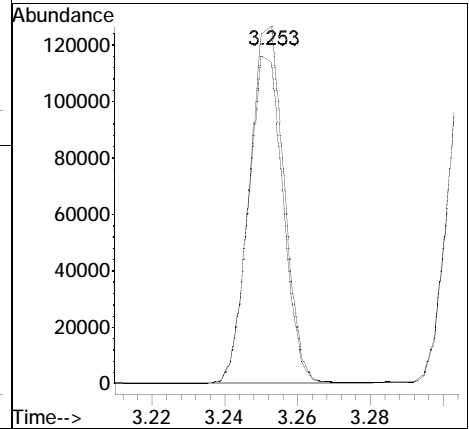
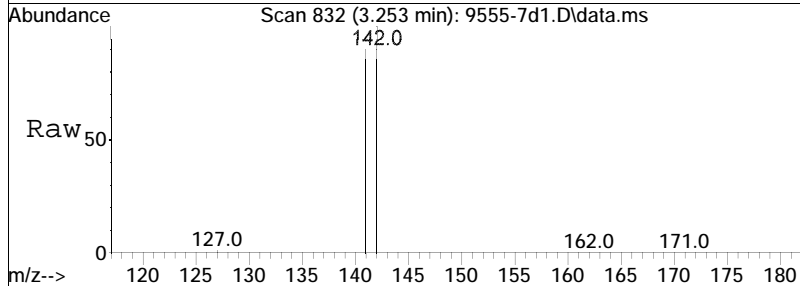
Tgt Ion	Resp	Lower	Upper
225	100		
223	63.0	50.4	75.6

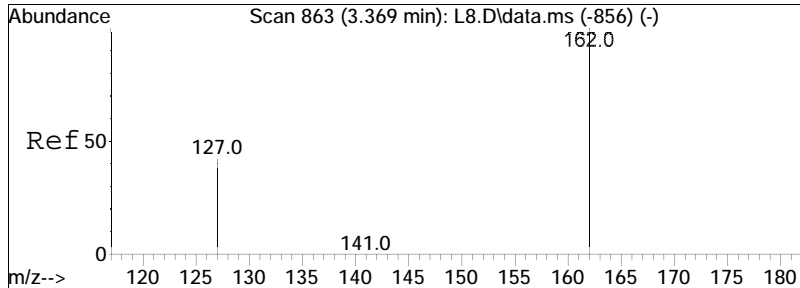




#11
 2-Methylnaphthalene
 Concen: 4.61 ug/ml
 RT: 3.253 min Scan# 832
 Delta R.T. 0.019 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

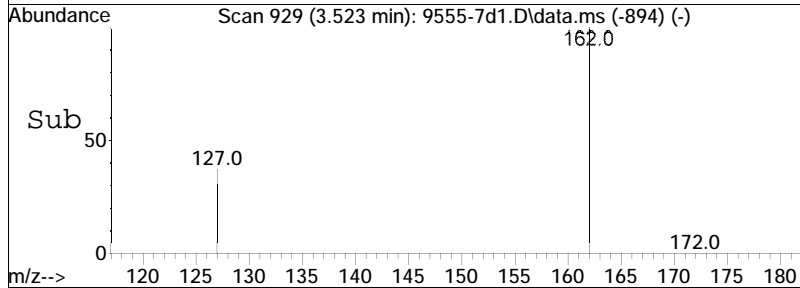
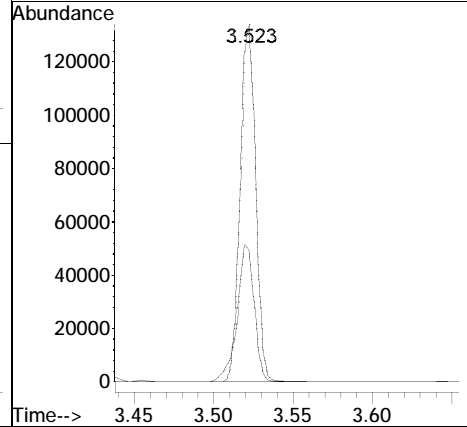
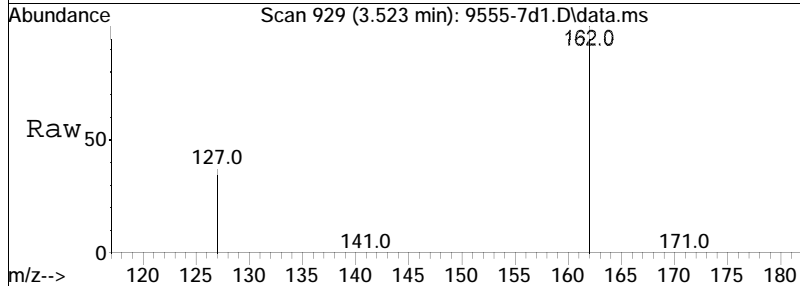
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.9	74.2	111.4

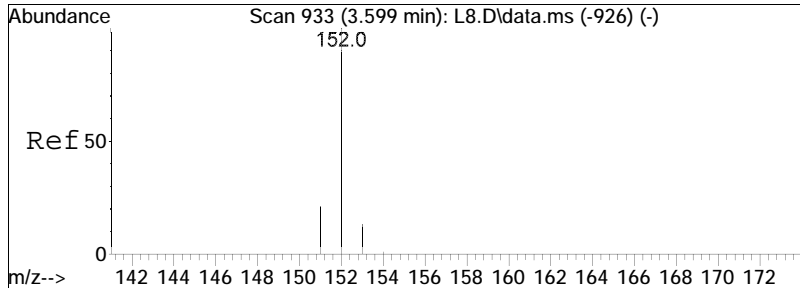




#14
 2-Chloronaphthalene
 Concen: 4.58 ug/ml
 RT: 3.523 min Scan# 929
 Delta R.T. 0.017 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

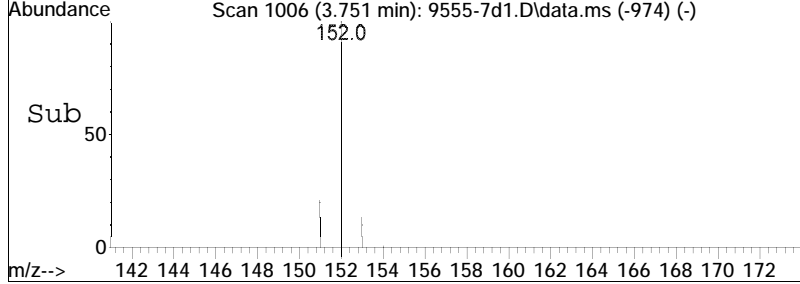
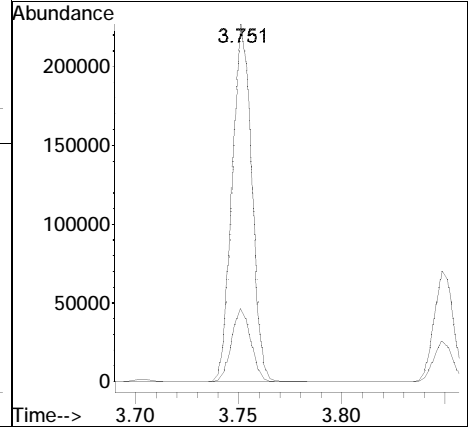
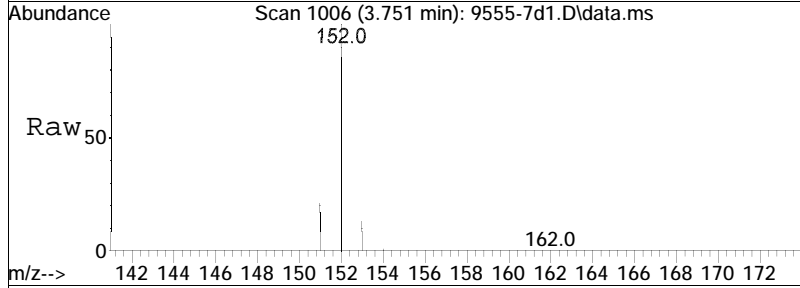
Tgt Ion	Ratio	Lower	Upper
162	100		
127	42.7	31.5	47.3

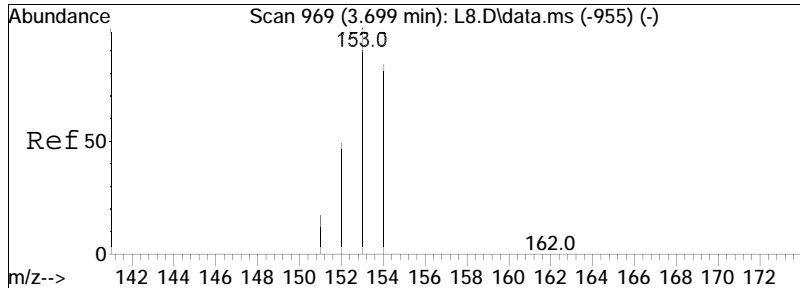




#15
 Acenaphthylene
 Concen: 5.37 ug/ml
 RT: 3.751 min Scan# 1006
 Delta R.T. 0.017 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

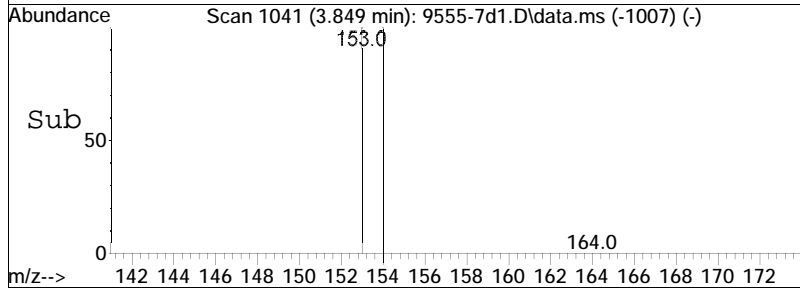
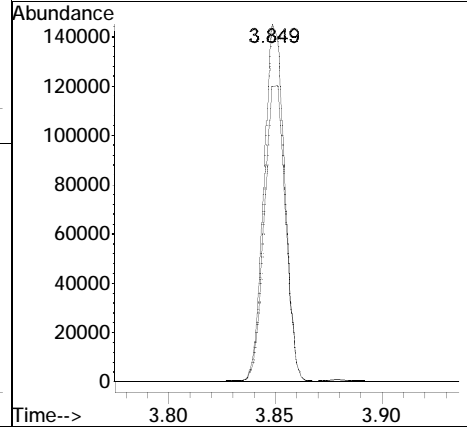
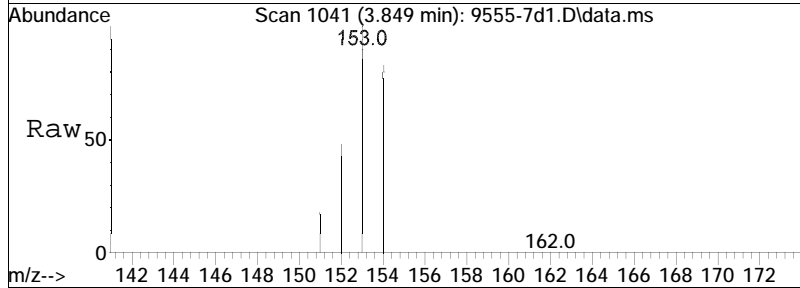
Tgt Ion	Resp	Lower	Upper
152	148530		
151	20.3	16.3	24.5

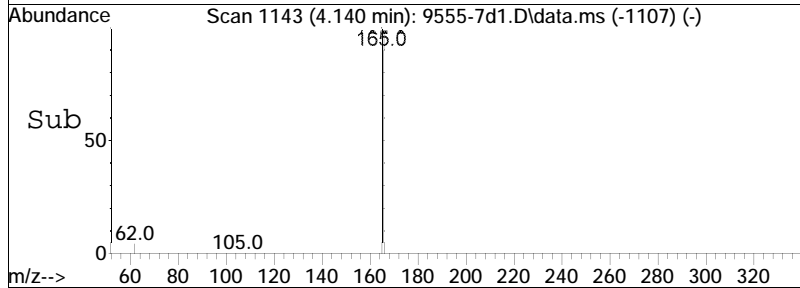
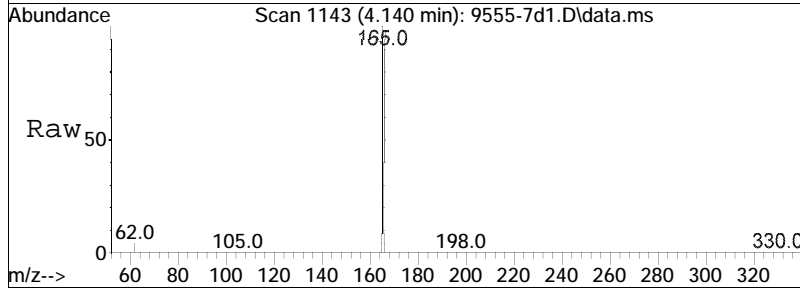
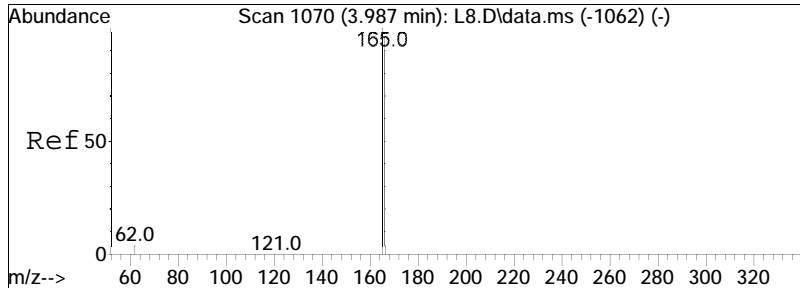




#17
 Acenaphthene
 Concen: 4.72 ug/ml
 RT: 3.849 min Scan# 1041
 Delta R.T. 0.014 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

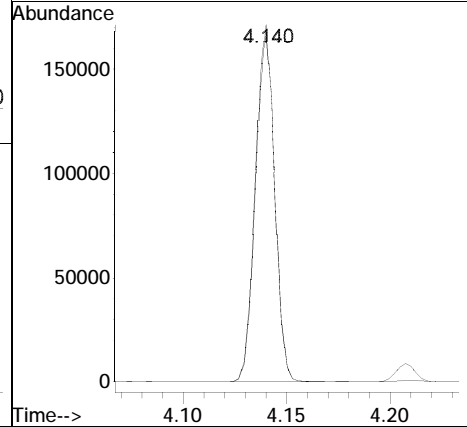
Tgt Ion	Resp	Lower	Upper
153	100		
154	84.6	70.8	106.2

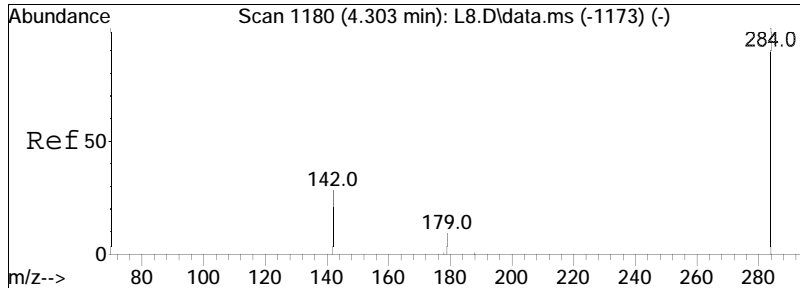




#18
 Fluorene
 Concen: 5.05 ug/ml
 RT: 4.140 min Scan# 1143
 Delta R.T. 0.013 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

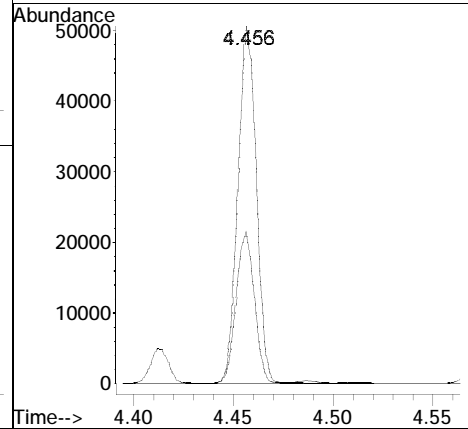
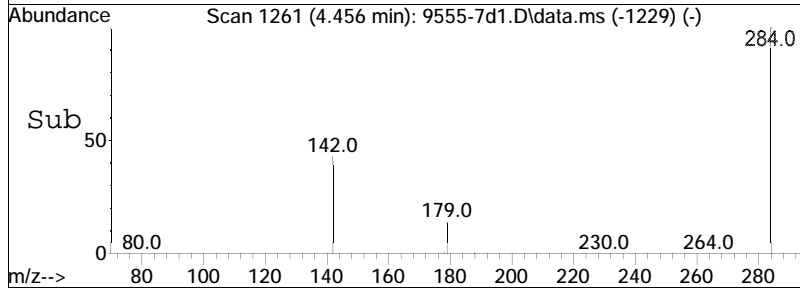
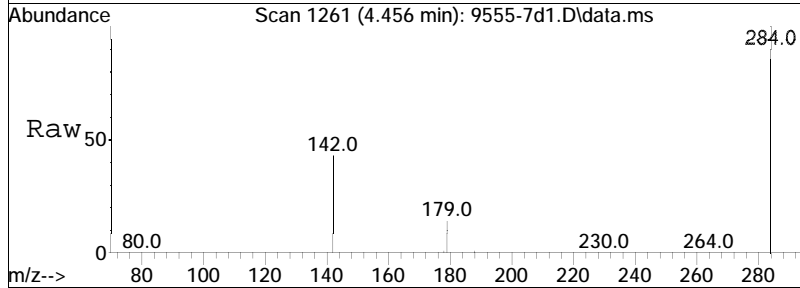
Tgt Ion	Resp	Lower	Upper
166	107551		
165	102.1	82.2	123.2

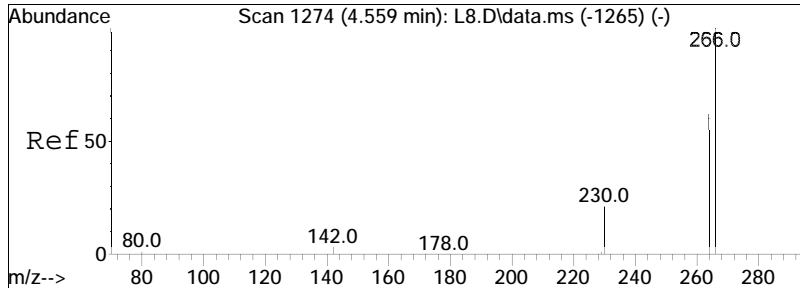




#22
 Hexachlorobenzene
 Concen: 3.93 ug/ml
 RT: 4.456 min Scan# 1261
 Delta R.T. 0.012 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

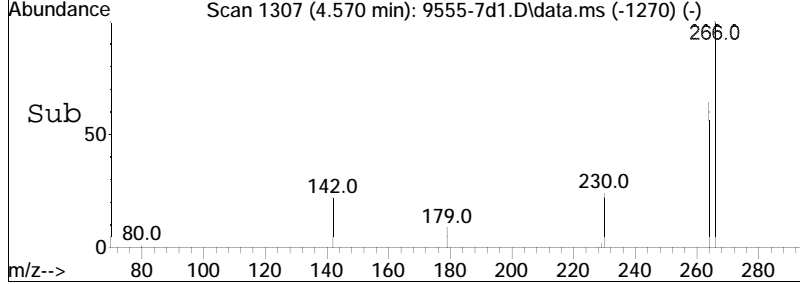
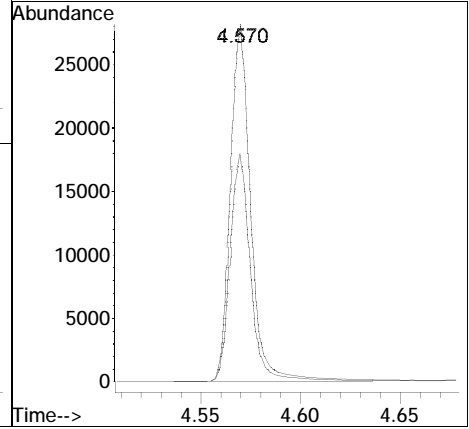
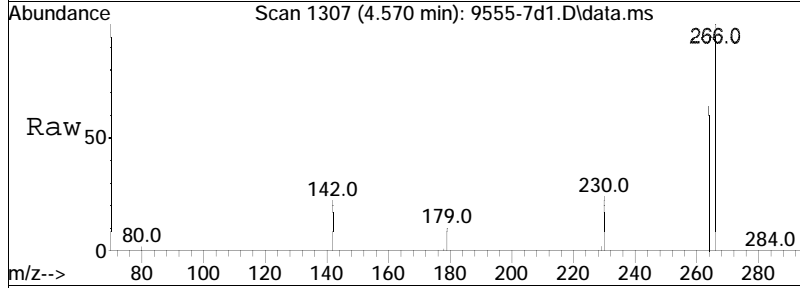
Tgt Ion: 284 Resp: 32033
 Ion Ratio Lower Upper
 284 100
 142 42.4 29.2 43.8

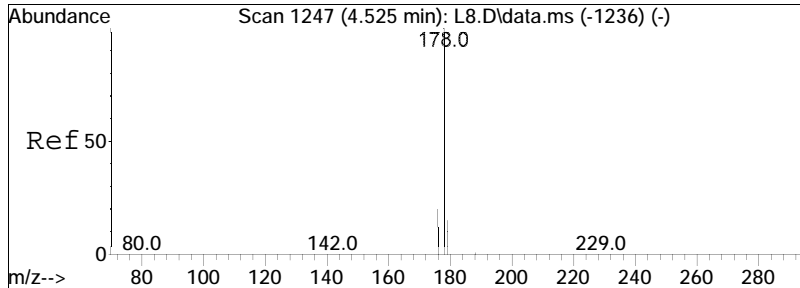




#23
 Pentachlorophenol
 Concen: 5.49 ug/ml
 RT: 4.570 min Scan# 1307
 Delta R.T. 0.012 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

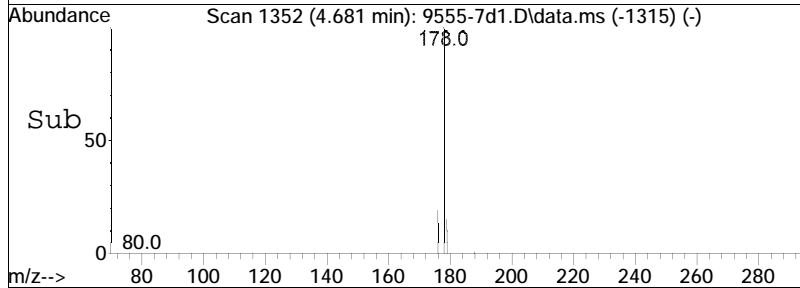
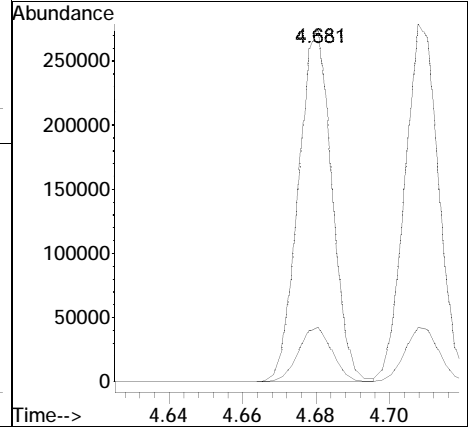
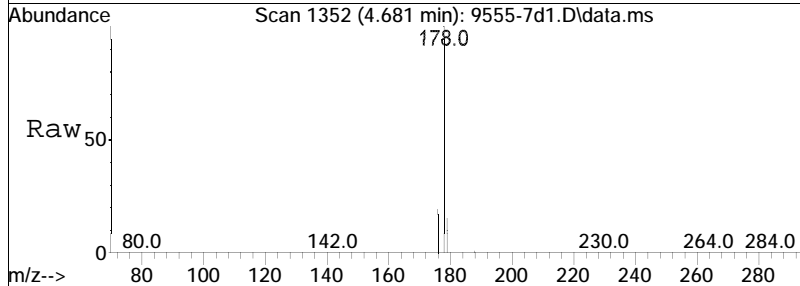
Tgt Ion	Resp	Lower	Upper
266	100		
264	63.8	50.6	76.0

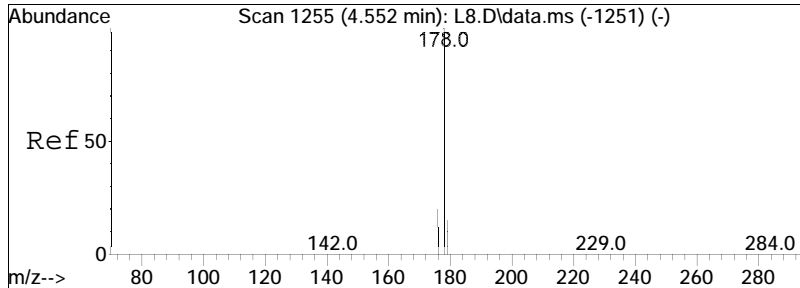




#24
 Phenanthrene
 Concen: 4.66 ug/ml
 RT: 4.681 min Scan# 1352
 Delta R.T. 0.012 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

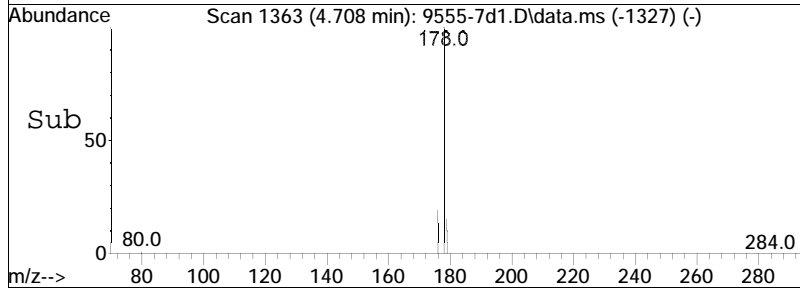
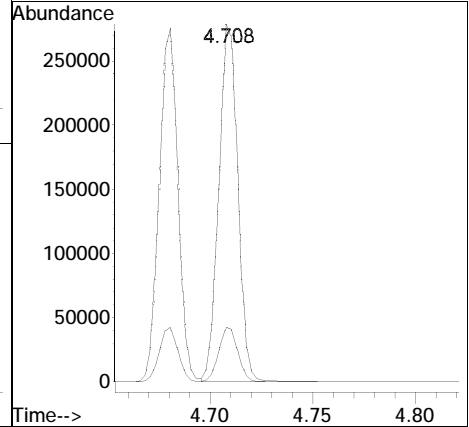
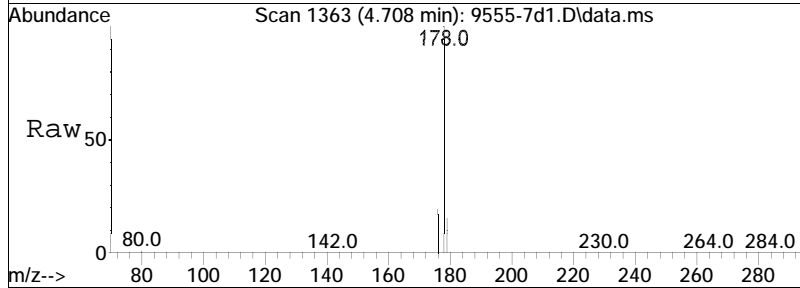
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

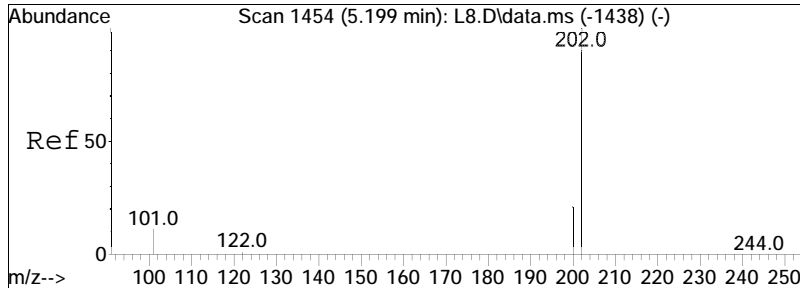




#25
 Anthracene
 Concen: 5.09 ug/ml
 RT: 4.708 min Scan# 1363
 Delta R.T. 0.010 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

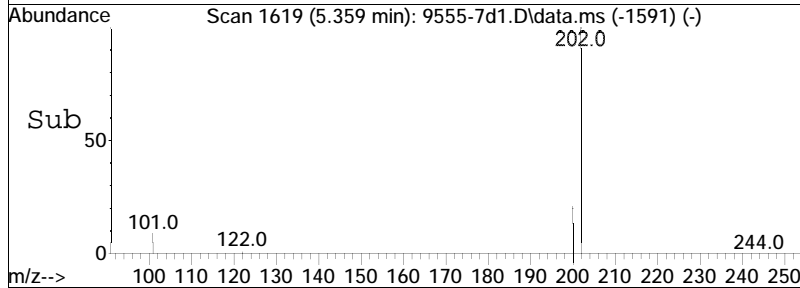
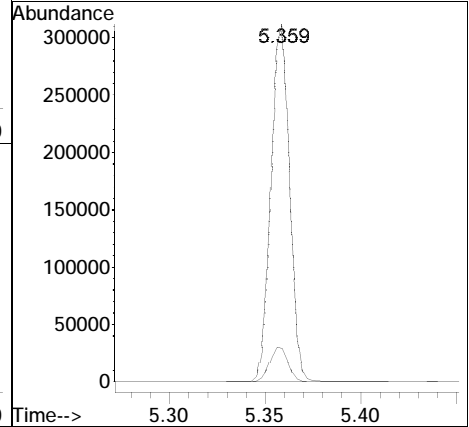
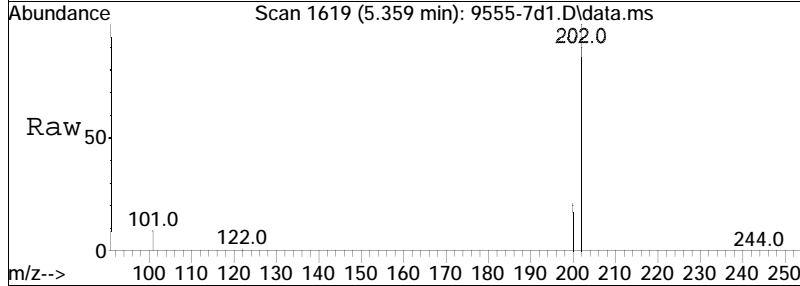
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.2	12.2	18.2

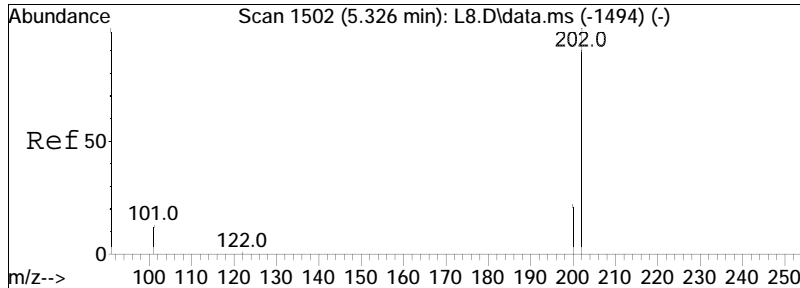




#27
 Fluoranthene
 Concen: 5.15 ug/ml
 RT: 5.359 min Scan# 1619
 Delta R.T. -0.005 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

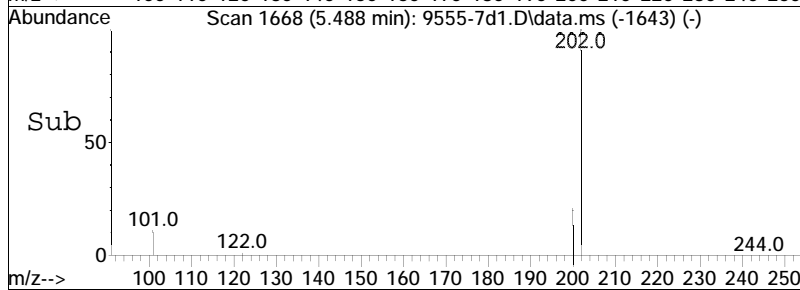
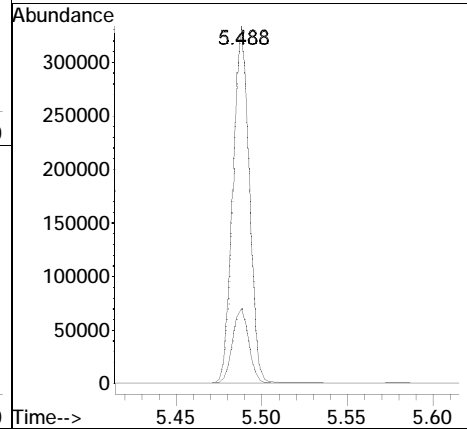
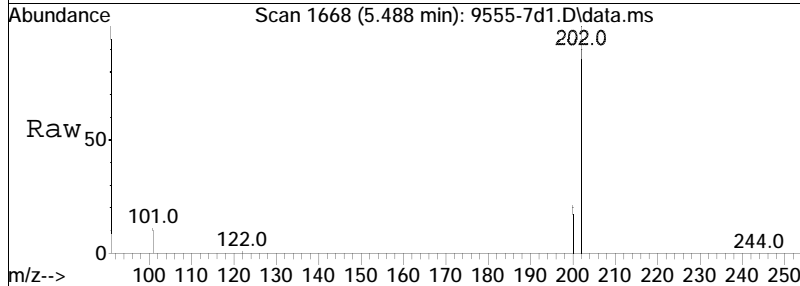
Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.7	9.3	13.9

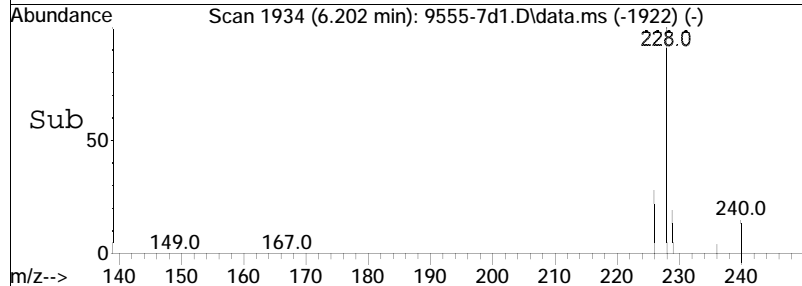
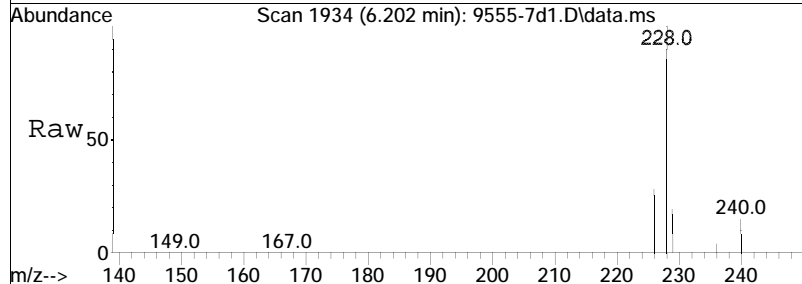
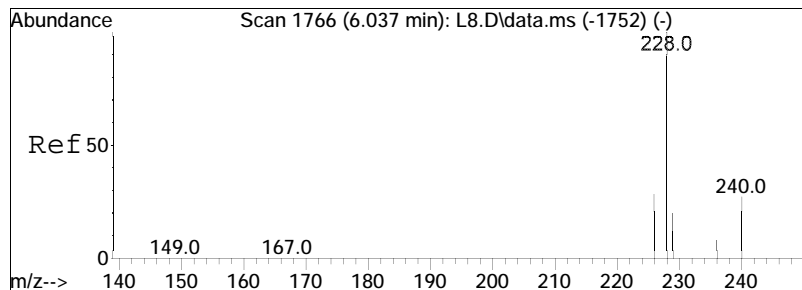




#28
 Pyrene
 Concen: 5.20 ug/ml
 RT: 5.488 min Scan# 1668
 Delta R.T. -0.013 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

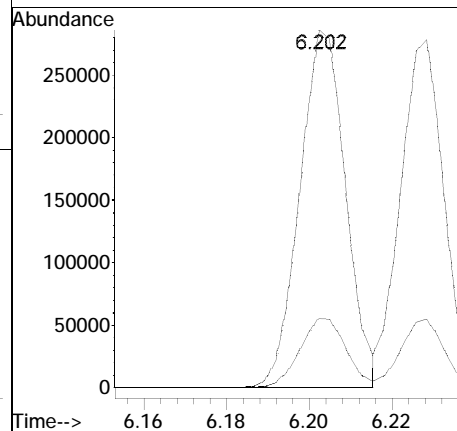
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.4	26.2

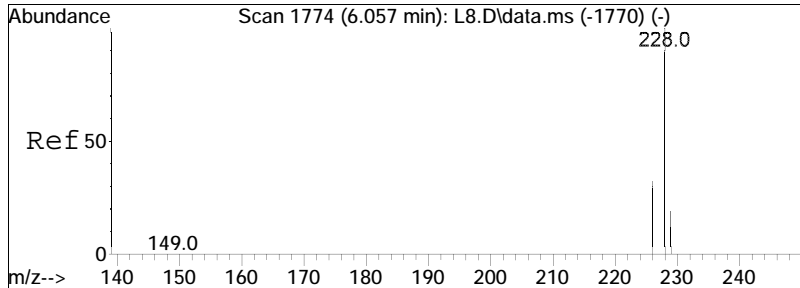




#31
 Benzo[a]anthracene
 Concen: 5.22 ug/ml
 RT: 6.202 min Scan# 1934
 Delta R.T. -0.049 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

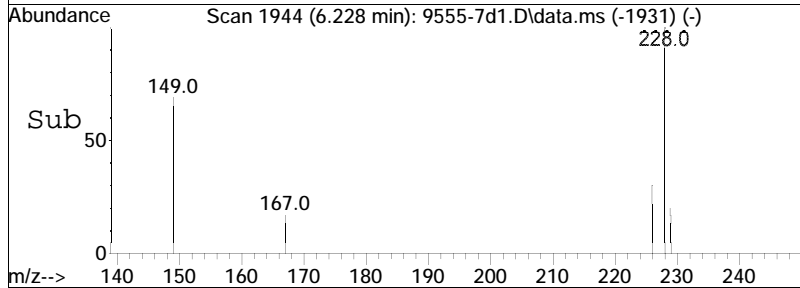
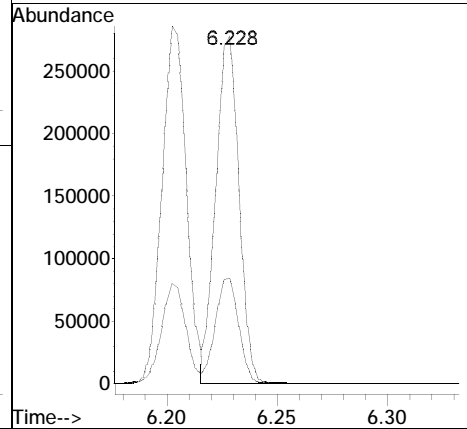
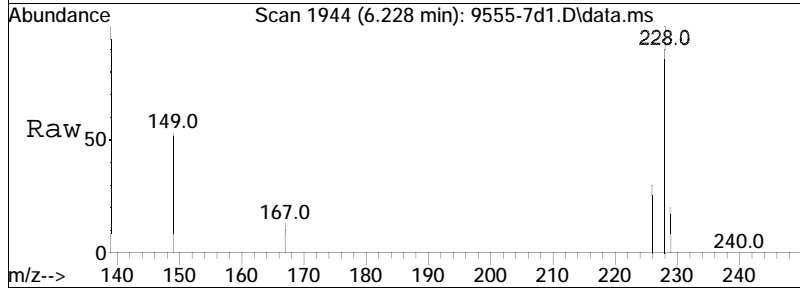
Tgt Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

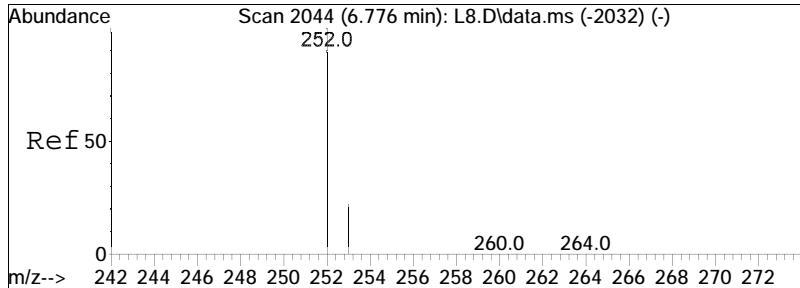




#32
 Chrysene
 Concen: 4.56 ug/ml
 RT: 6.228 min Scan# 1944
 Delta R.T. -0.047 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

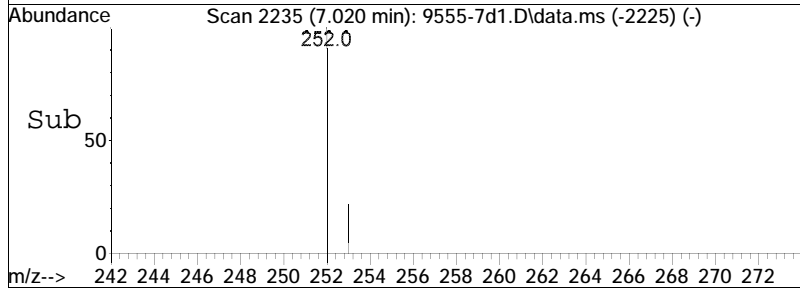
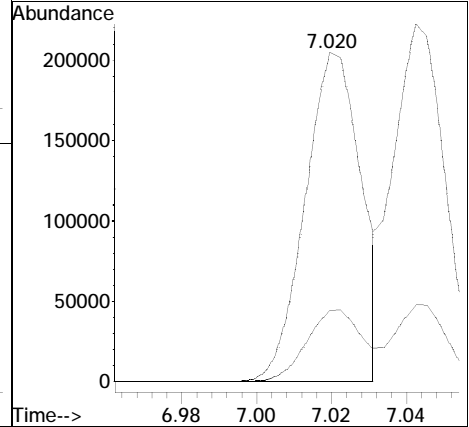
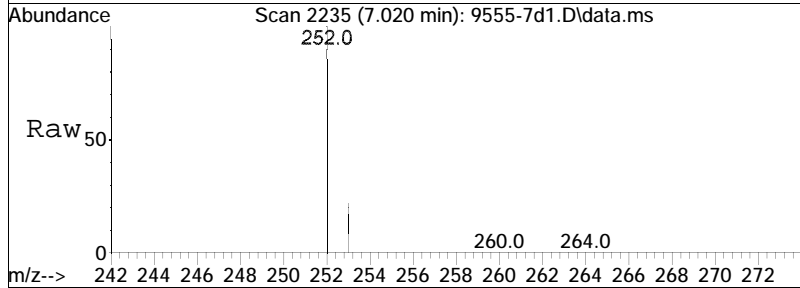
Tgt Ion	Resp	Lower	Upper
228	100		
226	30.6	24.9	37.3

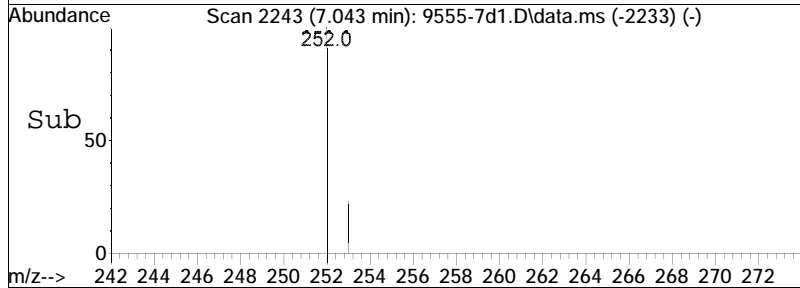
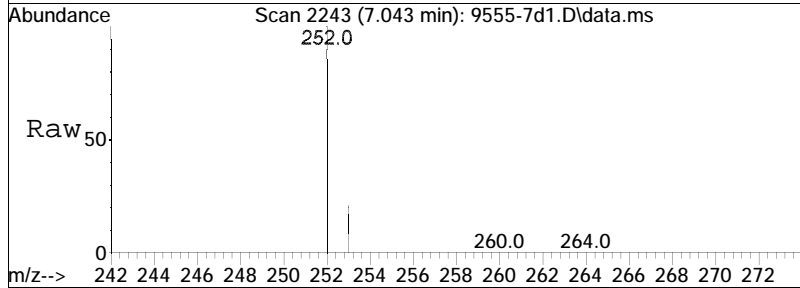
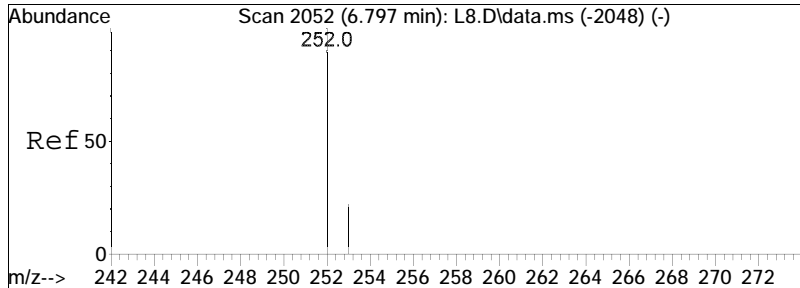




#35
 Benzo[b]fluoranthene
 Concen: 4.80 ug/ml
 RT: 7.020 min Scan# 2235
 Delta R.T. -0.052 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

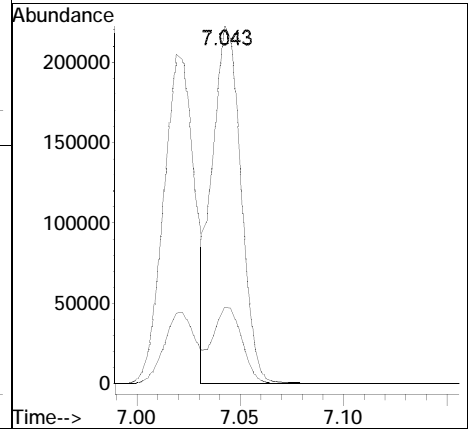
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.6	17.2	25.8

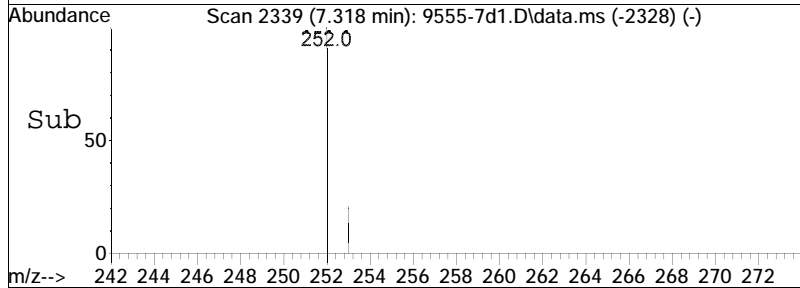
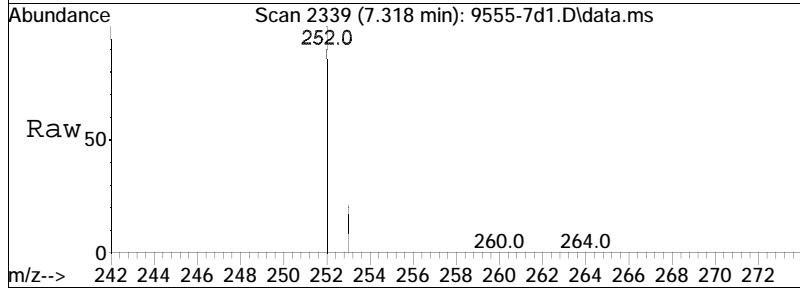
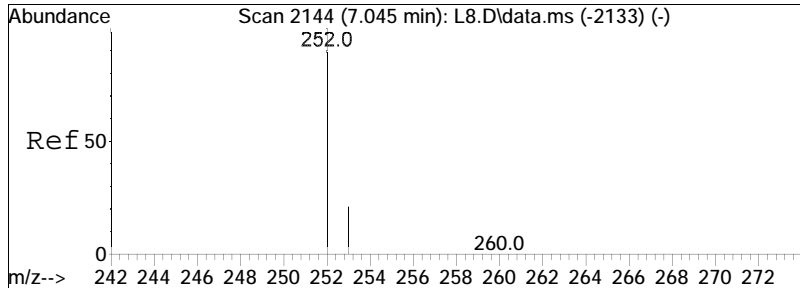




#36
 Benzo[k]fluoranthene
 Concen: 4.95 ug/ml
 RT: 7.043 min Scan# 2243
 Delta R.T. -0.052 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

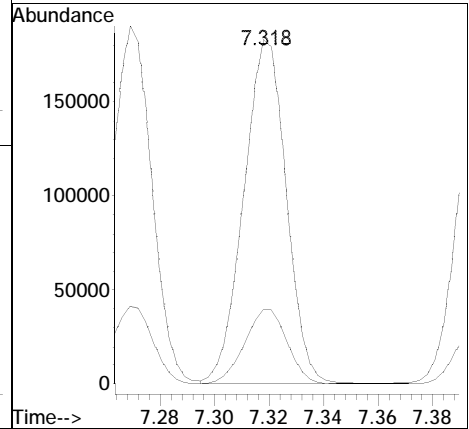
Tgt Ion	Resp	Lower	Upper
252	213893		
253	21.8	17.4	26.0

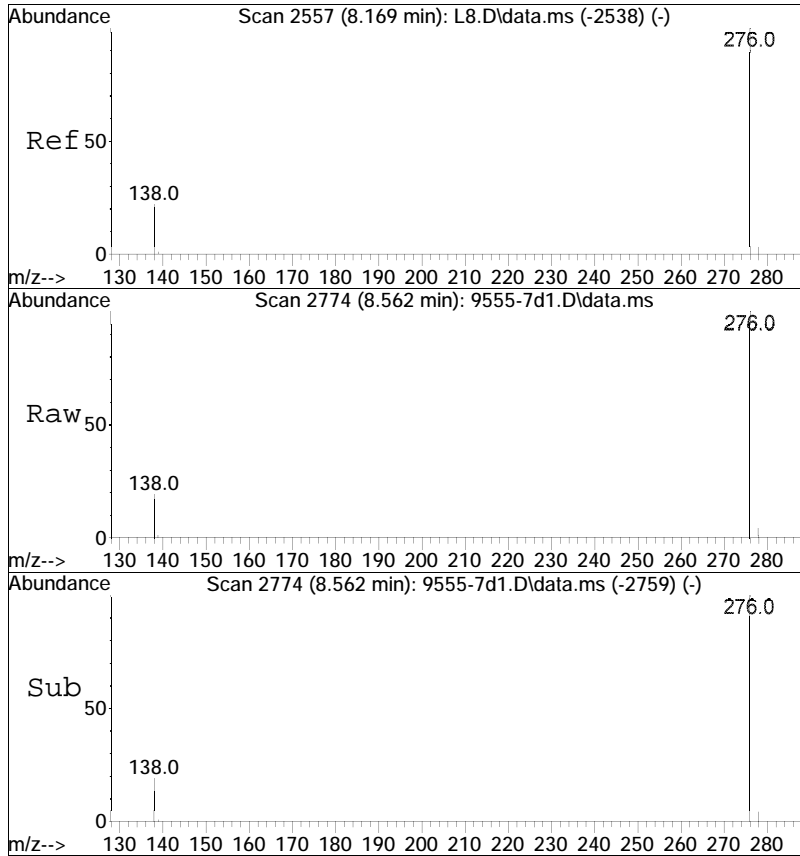




#37
 Benzo[a]pyrene
 Concen: 5.47 ug/ml
 RT: 7.318 min Scan# 2339
 Delta R.T. -0.049 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

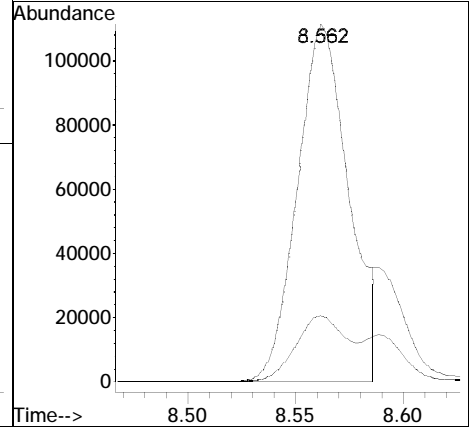
Tgt Ion	Resp	Lower	Upper
252	196849		
252	100		
253	21.6	16.8	25.2

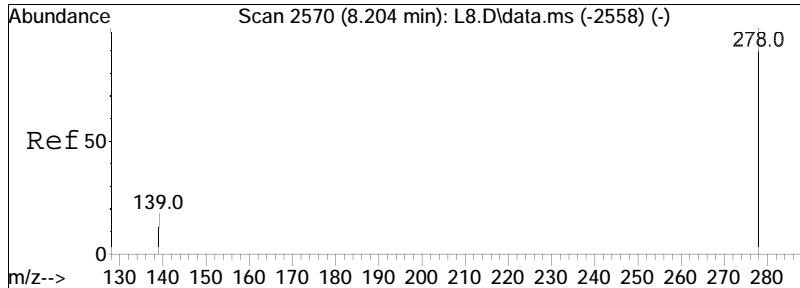




#38
 Indeno[1,2,3-cd]pyrene
 Concen: 5.51 ug/ml M6
 RT: 8.562 min Scan# 2774
 Delta R.T. -0.038 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

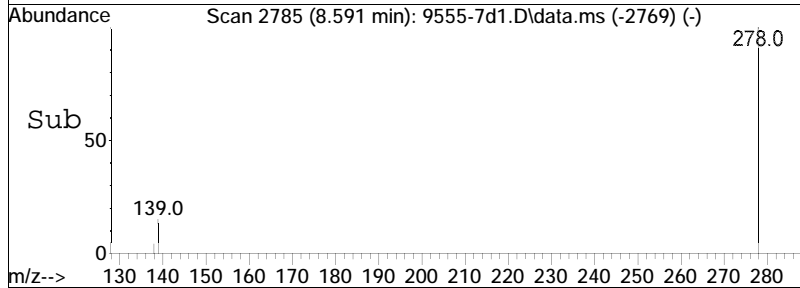
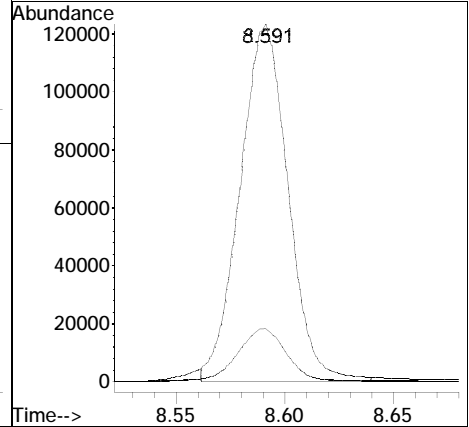
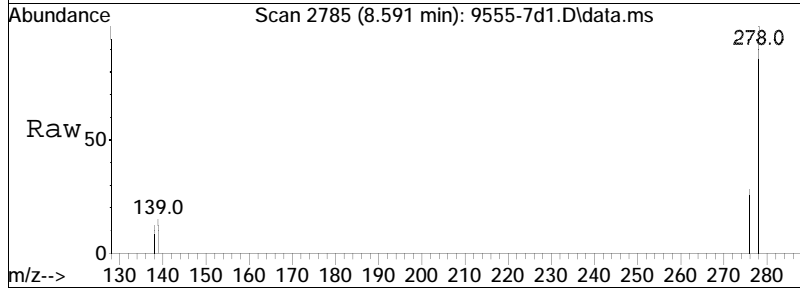
Tgt Ion	Resp	Lower	Upper
276	183960		
138	19.1	17.9	26.9

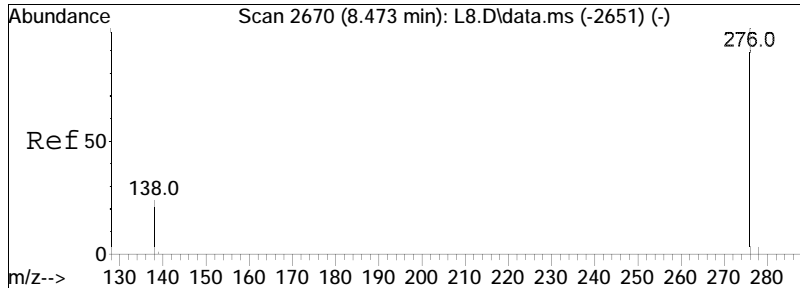




#39
 Dibenzo[a,h]anthracene
 Concen: 4.92 ug/ml M6
 RT: 8.591 min Scan# 2785
 Delta R.T. -0.036 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

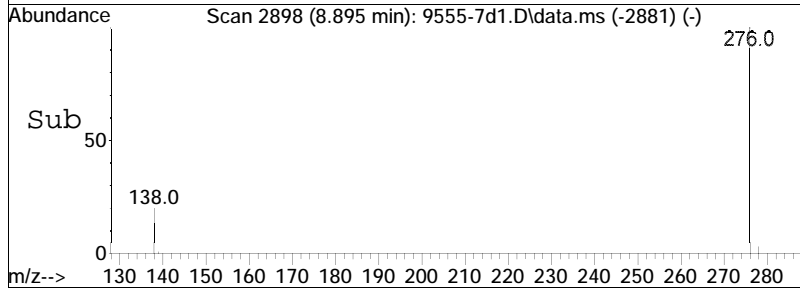
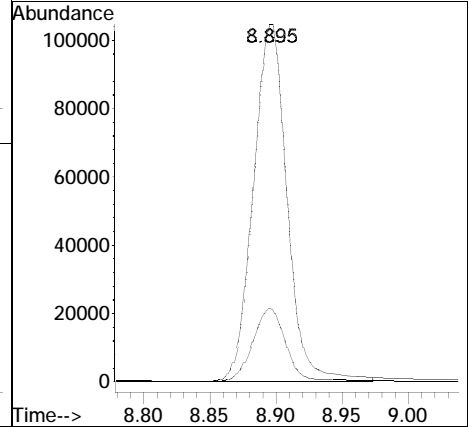
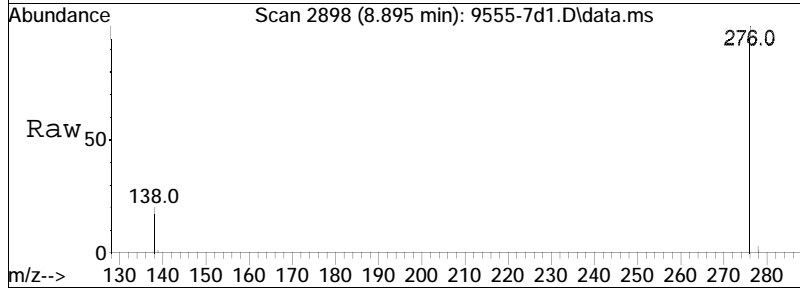
Tgt Ion	Resp	Lower	Upper
278	100		
139	15.1	15.9	23.9#





#40
 Benzo[g,h,i]perylene
 Concen: 4.31 ug/ml M1
 RT: 8.895 min Scan# 2898
 Delta R.T. -0.033 min
 Lab File: 9555-7d1.D
 Acq: 08 Aug 2023 03:46 pm

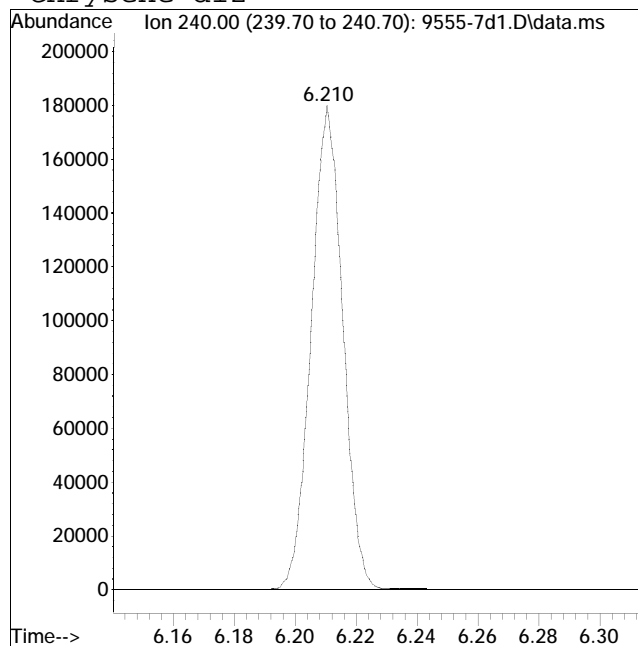
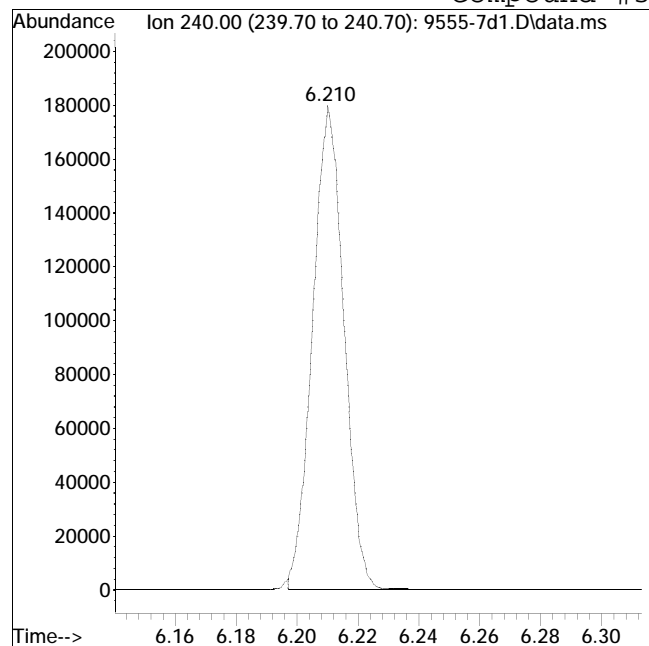
Tgt Ion	Resp	Lower	Upper
276	100		
138	19.8	20.1	30.1#



Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 9555-7d1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 3:46 pm Instrument : SV120
Sample : Wg1809555-7,32,5,RV,TIC Quant Date : 8/8/2023 3:59 pm

Compound #30: Chrysene-d12



Original Peak Response = 128206

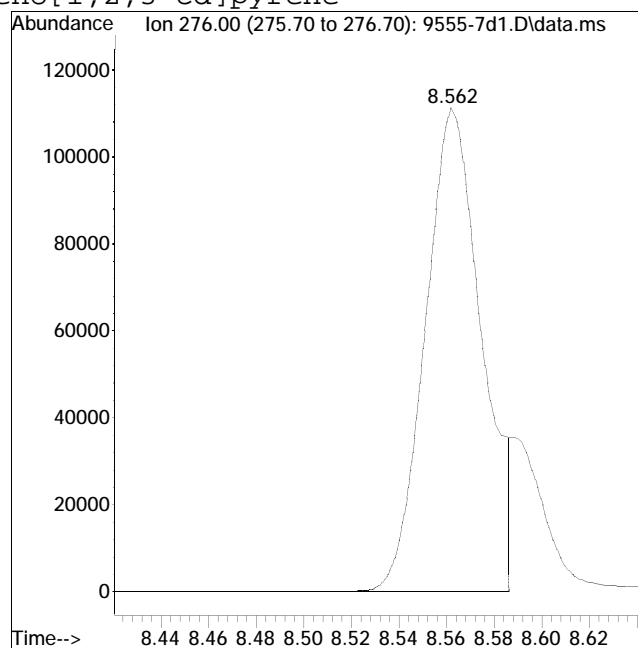
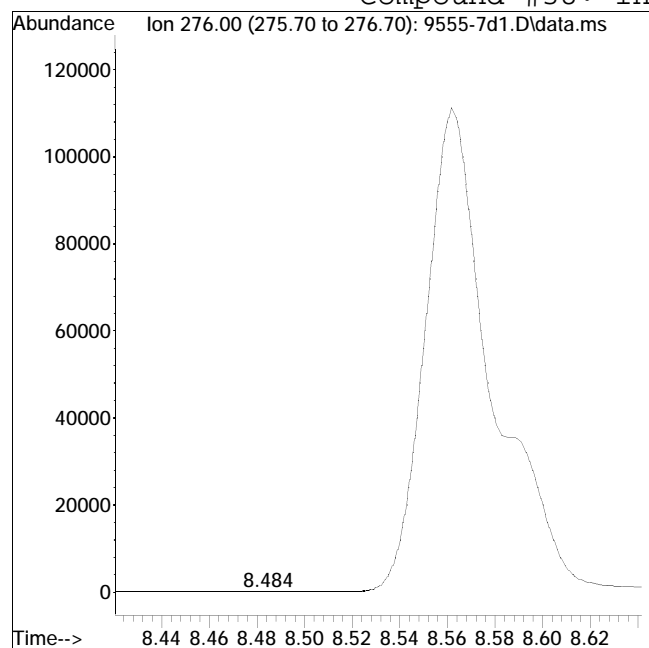
Manual Peak Response = 129616 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 9555-7d1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 3:46 pm Instrument : SV120
Sample : Wg1809555-7,32,5,RV,TIC Quant Date : 8/8/2023 3:59 pm

Compound #38: Indeno[1,2,3-cd]pyrene



Original Peak Response = 29

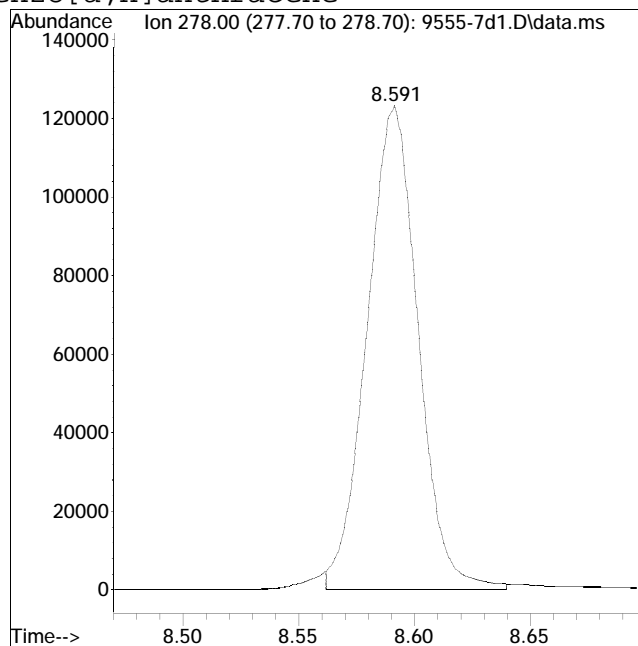
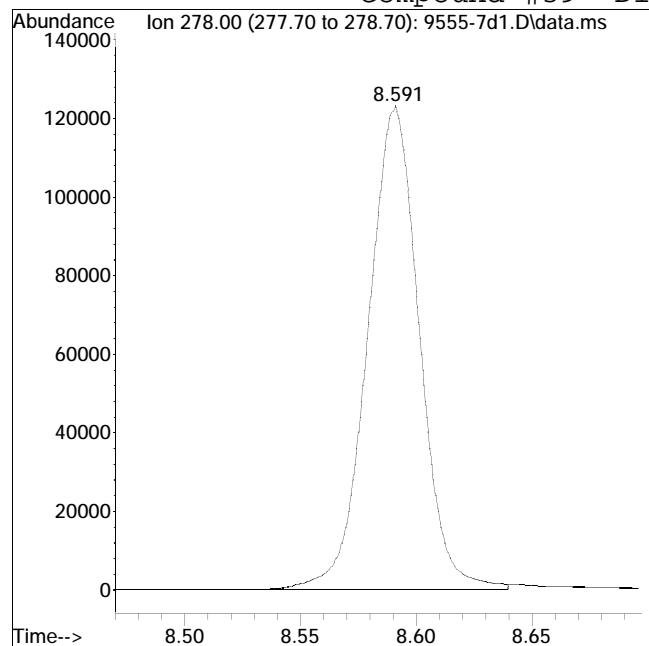
Manual Peak Response = 183960 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 9555-7d1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 3:46 pm Instrument : SV120
Sample : Wg1809555-7,32,5,RV,TIC Quant Date : 8/8/2023 3:59 pm

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 190850

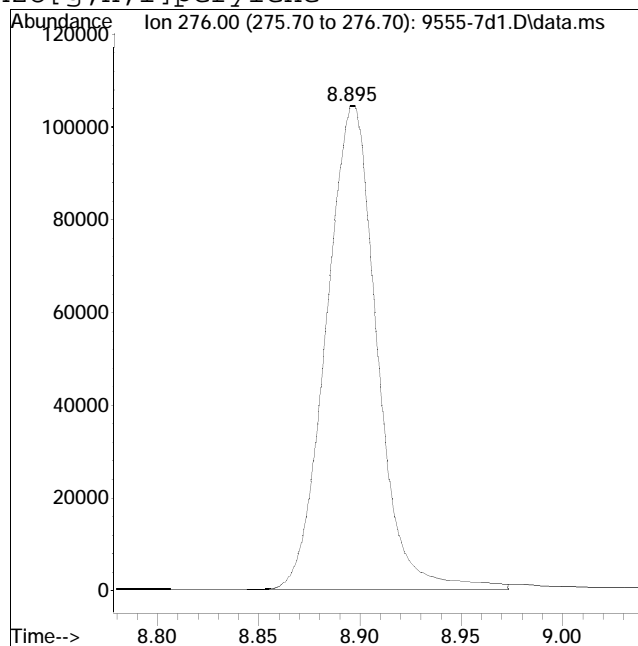
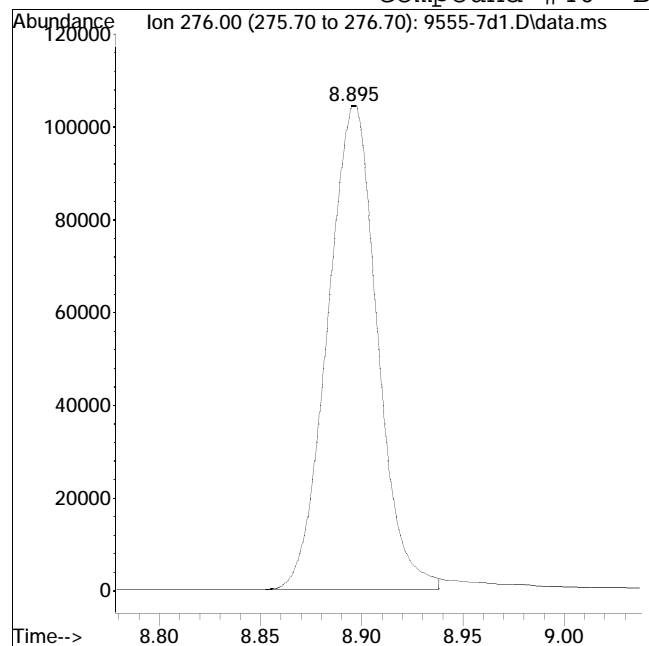
Manual Peak Response = 188440 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\230808ST\QMethod : simtech230222-sv120.M
Data File : 9555-7d1.D Operator : SV120:jjw
Date Inj'd : 8/8/2023 3:46 pm Instrument : SV120
Sample : Wg1809555-7,32,5,RV,TIC Quant Date : 8/8/2023 3:59 pm

Compound #40: Benzo[g,h,i]perylene



Original Peak Response = 178539

Manual Peak Response = 182385 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: $Amt * DF * 1000 * (1/V_o) * V_f$

Where:

DF = Dilution Factor

V_o = Volume of Sample (mL)

V_f = Extraction Lab Final Volume (mL)

Soil Concentration Formula: $Amt * DF * 1000 * (1/W_t) * V_f * (100/TS)$

Where:

DF = Dilution Factor

W_t = Weight of Sample (g)

V_f = Extraction Lab Final Volume (mL)

TS = Total Solids



ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Aug 14 2023, 03:27 pm

Work Group: WG1809555 for Department: 2 Organic Preparation

Created: 30-JUL-23 Due: Operator: SAY

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2343170-01	YS-MW-2023-01 072623	C NYTCL-8270-SIM	WATER	DONE	U	0802	0809	S0	Amber-A1
L2343170-02	MW-01 072623	C NYTCL-8270-SIM	WATER	DONE	U	0802	0809	S0	Amber-A1
L2343170-03	YS-MW-BD- 072623	C NYTCL-8270-SIM	WATER	DONE	U	0802	0809	S0	Amber-A1
L2343197-01	RI-MW-01-230726	C 8270TCL-SIM	WATER	DONE	U	0802	0816	S0	Amber-A1
L2343197-03	RI-FD01-230726	C 8270TCL-SIM	WATER	DONE	U	0802	0816	S0	Amber-A1
L2343325-01	RI-EB01-230727	C 8270TCL-SIM	WATER	DONE	U	0803	0824	S0	Amber-A1
WG1809555-1	Laboratory Method Bl	S NYTCL-8270-SIM	WATER	DONE	U				
WG1809555-1	Laboratory Method Bl	S 8270TCL-SIM	WATER	DONE	U				
WG1809555-2	Laboratory Control S	S NYTCL-8270-SIM	WATER	DONE	U				
WG1809555-2	Laboratory Control S	S 8270TCL-SIM	WATER	DONE	U				
WG1809555-3	LCS Duplicate	S NYTCL-8270-SIM	WATER	DONE	U				
WG1809555-3	LCS Duplicate	S 8270TCL-SIM	WATER	DONE	U				
WG1809555-4	Matrix Spike	S NYTCL-8270-SIM	WATER	DONE	U				
WG1809555-4	Matrix Spike	S 8270TCL-SIM	WATER	DONE	U				
WG1809555-5	Matrix Spike Duplica	S NYTCL-8270-SIM	WATER	DONE	U				
WG1809555-5	Matrix Spike Duplica	S 8270TCL-SIM	WATER	DONE	U				
WG1809555-6	Matrix Spike	S 8270TCL-SIM	WATER	DONE	U				
WG1809555-6	Matrix Spike	S NYTCL-8270-SIM	WATER	DONE	U				
WG1809555-7	Matrix Spike Duplica	S NYTCL-8270-SIM	WATER	DONE	U				
WG1809555-7	Matrix Spike Duplica	S 8270TCL-SIM	WATER	DONE	U				

Comments:

WG1809555-3 WG1809555-2
 WG1809555-4 L2343197-01
 WG1809555-5 L2343197-01
 WG1809555-6 L2343170-01
 WG1809555-7 L2343170-01

Analysis log File

Total Files Reported in Log : 13

Log Generated From Directory: I:\8270SIM\sv120\230222STical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE	INJ'D
1	deg0222.D	DFTPP_TEST.M	TUNE	WG1749940,,ical	2/22/2023	10:31 am
2	IL10.D	SIM_FAST.M	IL10,32,, 20.0/- Lot#98	WG1749940,,ical	2/22/2023	11:10 am
3	IL9.D	SIM_FAST.M	IL9,32,, 10.0/60.0 Lot#	WG1749940,,ical	2/22/2023	11:27 am
4	IL8.D	SIM_FAST.M	IL8,32,, 5.0/30.0 Lot#9	WG1749940,,ical	2/22/2023	11:43 am
5	IL7.D	SIM_FAST.M	IL7,32,, 2.0/20.0 Lot#9	WG1749940,,ical	2/22/2023	12:00 pm
6	IL6.D	SIM_FAST.M	IL6,32,, 1.0/10.0 Lot#9	WG1749940,,ical	2/22/2023	12:16 pm
7	IL5.D	SIM_FAST.M	IL5,32,, 0.5/5.0 Lot#98	WG1749940,,ical	2/22/2023	12:33 pm
8	IL4.D	SIM_FAST.M	IL4,32,, 0.2/2.0 Lot#98	WG1749940,,ical	2/22/2023	12:50 pm
9	IL3.D	SIM_FAST.M	IL3,32,, 0.1/1.0 Lot#98	WG1749940,,ical	2/22/2023	1:06 pm
10	IL2.D	SIM_FAST.M	IL2,32,, 0.05/0.5 Lot#9	WG1749940,,ical	2/22/2023	1:23 pm
11	IL1.D	SIM_FAST.M	IL1,32,, 0.02/0.2 Lot#9	WG1749940,,ical	2/22/2023	1:39 pm
12	ICV.D	SIM_FAST.M	CQICV,32,, 5.0/30.0 Lot	WG1749940,,ical	2/22/2023	1:56 pm
13	insblk.D	SIM_FAST.M			2/22/2023	2:12 pm

Type	Method File	Vial	Name	Data File	Comment
Sample	DFTPP_TEST.M	48	wg-1,32,,dftpp sv120	deg0801	wg,,ical19770
Sample	SIM_FAST.M	49	wg-3,32,, ICV 10146 (0730)	ccv0801	wg,,ical19770
Sample	SIM_FAST.M	50	instrument blank	blk0801	wg,,ical19770
Keyword					
Sample	SIM_FAST.M	1	WG1809555-1,32,,ah	809555-1	WG1810218,WG1809555,ical19770
Sample	SIM_FAST.M	2	WG1809555-2,32,,ah	809555-2	WG1810218,WG1809555,ical19770
Sample	SIM_FAST.M	3	WG1809555-3,32,,ah	809555-3	WG1810218,WG1809555,ical19770
Sample	SIM_FAST.M	4	L2340788-03d,32,5,tic	788-03d1	WG1810218,WG1809919,ical19770
Sample	SIM_FAST.M	5	WG1809479-2,32,,RV,tic	809479-2	WG1810218,WG1809479,ical19770
Sample	SIM_FAST.M	6	WG1809479-3,32,,RV,tic	809479-3	WG1810218,WG1809479,ical19770
Sample	SIM_FAST.M	7	WG1809190-1,32,,RV,tic	809190-1	WG1810218,WG1809190,ical19770
Sample	SIM_FAST.M	8	WG1809190-2,32,,RV,tic	809190-2	WG1810218,WG1809190,ical19770
Sample	SIM_FAST.M	9	WG1809190-3,32,,RV,tic	809190-3	WG1810218,WG1809190,ical19770
Sample	SIM_FAST.M	10	L2340836-02,32,,RV,tic	40836-02	WG1810218,WG1809190,ical19770
Sample	SIM_FAST.M	11	L2343194-01,32,,RV,tic	43194-01	WG1810218,WG1809479,ical19770
Sample	SIM_FAST.M	12	L2343170-01,32,,ah	43170-01	WG1810218,WG1809555,ical19770
Sample	SIM_FAST.M	13	WG1809555-6,32,,ah	809555-6	WG1810218,WG1809555,ical19770
Sample	SIM_FAST.M	14	WG1809555-7,32,,ah	809555-7	WG1810218,WG1809555,ical19770
Sample	SIM_FAST.M	15	L2343170-02,32,,ah	43170-02	WG1810218,WG1809555,ical19770
Sample	SIM_FAST.M	16	L2343170-03,32,,ah	43170-03	WG1810218,WG1809555,ical19770
Sample	SIM_FAST.M	17	L2343197-01,32,,ah	43197-01	WG1810218,WG1809555,ical19770
Sample	SIM_FAST.M	18	WG1809555-4,32,,ah	809555-4	WG1810218,WG1809555,ical19770
Sample	SIM_FAST.M	19	WG1809555-5,32,,ah	809555-5	WG1810218,WG1809555,ical19770
Sample	SIM_FAST.M	20	L2343197-03,32,,ah	43197-03	WG1810218,WG1809555,ical19770
Sample	SIM_FAST.M	21	L2343325-01,32,,ah	43325-01	WG1810218,WG1809555,ical19770

Type	Method File	Vial	Name	Data File	Comment
Sample	DFTPP_TEST.M	48	wg-1,32,,dftpp sv120	deg0808	wg,,ical19770
Sample	SIM_FAST.M	49	wg-3,32,, ICV 10146 (0806)	ccv0808	wg,,ical19770
Sample	SIM_FAST.M	50	instrument blank	blk0808	wg,,ical19770
Keyword					
Sample	SIM_FAST.M	1	WG1800656-1,32,,RV,ah	800656-1	WG1813153,WG1800656,ical19770
Sample	SIM_FAST.M	2	Wg1812663-1,32,,ah	812663-1	WG1813153,wg1812663,ical19770
Sample	SIM_FAST.M	3	Wg1812663-2,32,,ah	812663-2	WG1813153,wg1812663,ical19770
Sample	SIM_FAST.M	4	Wg1812663-3,32,,ah	812663-3	WG1813153,wg1812663,ical19770
Sample	SIM_FAST.M	5	L2345297-04d,32,10,r3b,ah	297-04d1	WG1813153,wg1812321,ical19770
Sample	SIM_FAST.M	6	L2343038-03d,32,10,ah	038-03d1	WG1813153,wg1811634,ical19770
Sample	SIM_FAST.M	7	L2344911-01,32,,r3e,ah	44911-01	WG1813153,wg1812663,ical19770
Sample	SIM_FAST.M	8	Wg1812945-2,32,,ah	812945-2	WG1813153,wg1812945,ical19770
Sample	SIM_FAST.M	9	Wg1812945-3,32,,ah	812945-3	WG1813153,wg1812945,ical19770
Sample	SIM_FAST.M	10	Wg1812945-1,32,,ah	812945-1	WG1813153,wg1812945,ical19770
Sample	SIM_FAST.M	11	Wg1811634-2,32,10,TIC	1634-2d1	WG1813153,wg1811634,ical19770
Sample	SIM_FAST.M	12	Wg1811634-3,32,10,TIC	1634-3d1	WG1813153,wg1811634,ical19770
Sample	SIM_FAST.M	13	L2343616-03,32,,ah	43616-03	WG1813153,wg1812945,ical19770
Sample	SIM_FAST.M	14	L2343616-04,32,,ah	43616-04	WG1813153,wg1812945,ical19770
Sample	SIM_FAST.M	15	L2343616-05,32,,ah	43616-05	WG1813153,wg1812945,ical19770
Sample	SIM_FAST.M	16	L2343616-06,32,,ah	43616-06	WG1813153,wg1812945,ical19770
Sample	SIM_FAST.M	17	L2345210-01,32,,ah	45210-01	WG1813153,wg1812945,ical19770
Sample	SIM_FAST.M	18	L2345210-02,32,,ah	45210-02	WG1813153,wg1812945,ical19770
Sample	SIM_FAST.M	19	L2345210-03,32,,ah	45210-03	WG1813153,wg1812945,ical19770
Sample	SIM_FAST.M	20	Wg1809555-1,32,,RV,TIC	809555-1	WG1813153,wg1809555,ical19770
Sample	SIM_FAST.M	21	Wg1809555-2,32,,RV,TIC	809555-2	WG1813153,wg1809555,ical19770
Sample	SIM_FAST.M	22	Wg1809555-3,32,,RV,TIC	809555-3	WG1813153,wg1809555,ical19770
Sample	SIM_FAST.M	23	Wg1809555-4,32,5,RV,TIC	9555-4d1	WG1813153,wg1809555,ical19770
Sample	SIM_FAST.M	24	Wg1809555-5,32,5,RV,TIC	9555-5d1	WG1813153,wg1809555,ical19770
Sample	SIM_FAST.M	25	Wg1809555-6,32,5,RV,TIC	9555-6d1	WG1813153,wg1809555,ical19770
Sample	SIM_FAST.M	26	Wg1809555-7,32,5,RV,TIC	9555-7d1	WG1813153,wg1809555,ical19770

Workgroup: WG1809555

Prep Method: EPA 3510C Solvent Type: DCM Surrogate Type: ABN Spike Type: ABN-SIM Spike Verify by: SAY Lims Spikelot: 8270-USAC2 Additional Reagents/Std	Lot #: EG957 Lot #: 10188-V[01/25/24], Lot #: 10173-F[12/30/23],	Conc.Method: Buchi Solvent Type: DCM Lot #: EG957 Additional Reagents/Std	Cleanup 1 Cleanup Method 1: Cleanup Method 2: Solvent Type: Lot #: Additional Reagents/Std						
<table border="1"> <tr> <td>H2SO4</td> <td>A072523</td> </tr> <tr> <td>Na2SO4</td> <td>2341161008</td> </tr> <tr> <td>NaOH</td> <td>10NNaOH071923</td> </tr> </table>		H2SO4	A072523	Na2SO4	2341161008	NaOH	10NNaOH071923		
H2SO4	A072523								
Na2SO4	2341161008								
NaOH	10NNaOH071923								

Extraction

Concentration

Sample/Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2343170-01 WATER	07/30/23 22:23	Sampson Amoah	1000	<2, >12	1		07/31/23 15:59	Victor Kono	1	G
L2343170-02 WATER	07/30/23 22:23	Sampson Amoah	1000	<2, >12	1		07/31/23 16:37	Victor Kono	1	G
L2343170-03 WATER	07/30/23 22:23	Sampson Amoah	1000	<2, >12	1		07/31/23 16:37	Victor Kono	1	G
L2343197-01 WATER	07/30/23 15:51	Sampson Amoah	1000	<2, >12	1		07/31/23 15:59	Victor Kono	1	G
L2343197-03 WATER	07/30/23 15:51	Sampson Amoah	1000	<2, >12	1		07/31/23 15:59	Victor Kono	1	G
L2343325-01 WATER	07/30/23 22:16	Sampson Amoah	1000	<2, >12	1		07/31/23 16:37	Victor Kono	1	G
WG1809555-1 BLANK	07/30/23 15:51	Sampson Amoah	1000	<2, >12	1		07/31/23 15:01	Mark Gillespie	1	L
	WG1809554									

Workgroup: WG1809555

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
WG1809555- 2 LCS	07/30/23 15:51	Sampson Amoah	1000	<2, >12	1	1	07/31/23 15:01	Mark Gillespie	1	L
WG1809555- 3 LCSD	07/30/23 15:51	Sampson Amoah	1000	<2, >12	1	1	07/31/23 15:01	Mark Gillespie	1	L
WG1809555- 4 MS	07/30/23 15:51	Sampson Amoah	1000	<2, >12	1	1	07/31/23 15:01	Mark Gillespie	1	L
WG1809555- 5 MSD	07/30/23 15:51	Sampson Amoah	1000	<2, >12	1	1	07/31/23 15:59	Victor Kono	1	G
WG1809555- 6 MS	07/30/23 22:23	Sampson Amoah	1000	<2, >12	1	1	07/31/23 15:59	Victor Kono	1	G
WG1809555- 7 MSD	07/30/23 22:23	Sampson Amoah	1000	<2, >12	1	1	07/31/23 15:59	Victor Kono	1	G

Metals

Inorganic Data (ICPMS Analysis)

Form 1 METALS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-01
 Client ID : YS-MW-2023-01 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,6020B
 Lab File ID : WG1810219.pdf
 Sample Amount : 50ml
 Digestion Method : EPA 3005A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 10:45
 Date Received : 07/26/23
 Date Analyzed : 08/01/23 14:48
 Dilution Factor : 1
 Analyst : SMV
 Instrument ID : ICPMSQ2
 %Solids : N/A
 Date Digested : 07/31/23

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	0.251	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00151	0.00050	0.00016	
7440-39-3	Barium, Total	0.1529	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	0.00015	0.00020	0.00005	J
7440-70-2	Calcium, Total	115.	0.100	0.0394	
7440-47-3	Chromium, Total	0.00105	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00031	0.00050	0.00016	J
7440-50-8	Copper, Total	0.1022	0.00100	0.00038	
7439-89-6	Iron, Total	0.681	0.0500	0.0191	
7439-92-1	Lead, Total	0.01577	0.00100	0.00034	
7439-95-4	Magnesium, Total	25.9	0.0700	0.0242	
7439-96-5	Manganese, Total	0.08169	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00357	0.00200	0.00055	
7440-09-7	Potassium, Total	7.32	0.100	0.0309	
7782-49-2	Selenium, Total	0.00538	0.00500	0.00173	
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	5.88	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	0.00187	0.00500	0.00157	J
7440-66-6	Zinc, Total	0.1250	0.01000	0.00341	



Form 1 METALS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : WG1809786-1
 Client ID : WG1809786-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,6020B
 Lab File ID : WG1810219.pdf
 Sample Amount : 50ml
 Digestion Method : EPA 3005A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 08/01/23 14:17
 Dilution Factor : 1
 Analyst : SMV
 Instrument ID : ICPMSQ2
 %Solids : N/A
 Date Digested : 07/31/23

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	ND	0.0100	0.00327	U
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	ND	0.100	0.0394	U
7440-47-3	Chromium, Total	ND	0.00100	0.00017	U
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	ND	0.0700	0.0242	U
7439-96-5	Manganese, Total	ND	0.00100	0.00044	U
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	ND	0.100	0.0309	U
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	ND	0.100	0.0293	U
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U



Form 1 METALS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : WG1809786-6
 Client ID : Serial Dilution
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,6020B
 Lab File ID : WG1810219.pdf
 Sample Amount : 50ml
 Digestion Method : EPA 3005A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected :
 Date Received :
 Date Analyzed : 08/01/23 14:44
 Dilution Factor : 5
 Analyst : SMV
 Instrument ID : ICPMSQ2
 %Solids : N/A
 Date Digested : 07/31/23

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	0.241	0.0500	0.016	
7440-39-3	Barium, Total	0.1471	0.00250	0.0009	
7440-70-2	Calcium, Total	107.	0.500	0.197	
7440-50-8	Copper, Total	0.1071	0.00500	0.0019	
7439-95-4	Magnesium, Total	25.5	0.350	0.121	
7439-96-5	Manganese, Total	0.08050	0.00500	0.0022	
7440-09-7	Potassium, Total	6.54	0.500	0.154	
7440-23-5	Sodium, Total	5.35	0.500	0.146	



Form 1 METALS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-02
 Client ID : MW-01 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,6020B
 Lab File ID : WG1813594.pdf
 Sample Amount : 50ml
 Digestion Method : EPA 3005A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 13:10
 Date Received : 07/26/23
 Date Analyzed : 08/09/23 07:09
 Dilution Factor : 1
 Analyst : SMV
 Instrument ID : ICPMSQ2
 %Solids : N/A
 Date Digested : 07/31/23

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	0.113	0.0100	0.00327	
7440-36-0	Antimony, Total	0.00080	0.00400	0.00042	J
7440-38-2	Arsenic, Total	0.00237	0.00050	0.00016	
7440-39-3	Barium, Total	0.03053	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	0.00011	0.00020	0.00005	J
7440-70-2	Calcium, Total	53.1	0.100	0.0394	
7440-47-3	Chromium, Total	0.00052	0.00100	0.00017	J
7440-48-4	Cobalt, Total	0.00072	0.00050	0.00016	
7440-50-8	Copper, Total	0.00611	0.00100	0.00038	
7439-89-6	Iron, Total	1.17	0.0500	0.0191	
7439-92-1	Lead, Total	0.00111	0.00100	0.00034	
7439-95-4	Magnesium, Total	9.76	0.0700	0.0242	
7439-96-5	Manganese, Total	0.5336	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00199	0.00200	0.00055	J
7440-09-7	Potassium, Total	3.52	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	23.7	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	0.00189	0.00500	0.00157	J
7440-66-6	Zinc, Total	0.1016	0.01000	0.00341	



Form 1 METALS

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Lab ID : L2343170-03
 Client ID : YS-MW-BD- 072623
 Sample Location : ROCHESTER, NY
 Sample Matrix : WATER
 Analytical Method : 1,6020B
 Lab File ID : WG1813594.pdf
 Sample Amount : 50ml
 Digestion Method : EPA 3005A

Lab Number : L2343170
 Project Number : 2230119
 Date Collected : 07/26/23 00:00
 Date Received : 07/26/23
 Date Analyzed : 08/09/23 07:14
 Dilution Factor : 1
 Analyst : SMV
 Instrument ID : ICPMSQ2
 %Solids : N/A
 Date Digested : 07/31/23

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	0.123	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00125	0.00050	0.00016	
7440-39-3	Barium, Total	0.09536	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	107.	0.100	0.0394	
7440-47-3	Chromium, Total	0.00084	0.00100	0.00017	J
7440-48-4	Cobalt, Total	0.00018	0.00050	0.00016	J
7440-50-8	Copper, Total	0.01216	0.00100	0.00038	
7439-89-6	Iron, Total	0.247	0.0500	0.0191	
7439-92-1	Lead, Total	0.00236	0.00100	0.00034	
7439-95-4	Magnesium, Total	27.1	0.0700	0.0242	
7439-96-5	Manganese, Total	0.04268	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00109	0.00200	0.00055	J
7440-09-7	Potassium, Total	6.72	0.100	0.0309	
7782-49-2	Selenium, Total	0.00502	0.00500	0.00173	
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	6.21	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	0.01936	0.01000	0.00341	



Form 1 METALS

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Lab ID : WG1809786-10
Client ID : Serial Dilution
Sample Location :
Sample Matrix : WATER
Analytical Method : 1,6020B
Lab File ID : WG1815261.pdf
Sample Amount : 50ml
Digestion Method : EPA 3005A

Lab Number : L2343170
Project Number : 2230119
Date Collected :
Date Received :
Date Analyzed : 08/13/23 11:59
Dilution Factor : 5
Analyst : SMV
Instrument ID : ICPMSQ2
%Solids : N/A
Date Digested : 07/31/23

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	0.709	0.0500	0.016	
7440-39-3	Barium, Total	0.08590	0.00250	0.0009	
7440-70-2	Calcium, Total	59.6	0.500	0.197	
7439-89-6	Iron, Total	1.37	0.250	0.096	
7439-95-4	Magnesium, Total	15.6	0.350	0.121	
7439-96-5	Manganese, Total	0.1454	0.00500	0.0022	
7440-09-7	Potassium, Total	19.8	0.500	0.154	
7440-23-5	Sodium, Total	106.	0.500	0.146	



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : ICPMSQ2

Lab Number : L2343170
 Project Number : 2230119
 Units : ug/l

Parameter	Initial Calibration			Continuing Calibration(s)							
	Lab ID : R1724650-7			R1724650-10			R1724650-12		R1724650-14		
	Date Analyzed: 08/01/23 09:02			08/01/23 09:26			08/01/23 10:24		08/01/23 11:17		
	True	Found	%R	True	Found	%R	Found	%R	Found	%R	
Aluminum	50.0	48.7000	97	60.0000	62.7	104	61.4	102	44.2	74	
Antimony	50.0	49.0000	98	60.0000	57.8	96	40.9	68	41.6	69	
Arsenic	50.0	49.3000	99	60.0000	60.1	100	60.5	101	58.3	97	
Barium	50.0	48.2000	96	60.0000	58.5	98	51.5	86	51.8	86	
Beryllium	50.0	49.6000	99	60.0000	58.2	97	72.1	120	51.5	86	
Cadmium	50.0	49.9000	100	60.0000	59.4	99	59.7	100	59.8	100	
Calcium	5000	5080.0000	102	6000.0000	6360	106	5670	94	6130	102	
Chromium	50.0	50.4000	101	60.0000	61.9	103	59.2	99	49.6	83	
Cobalt	50.0	50.1000	100	60.0000	61.9	103	63.3	106	59.8	100	
Copper	50.0	51.0000	102	60.0000	62.6	104	66.6	111	63.7	106	
Iron	5000	5060.0000	101	6000.0000	6220	104	5930	99	5510	92	
Lead	50.0	51.8000	104	60.0000	60.3	100	64.7	108	66.8	111	
Magnesium	5000	5040.0000	101	6000.0000	6450	108	6230	104	4360	73	
Manganese	50.0	52.0000	104	60.0000	62.6	104	59.3	99	55.2	92	
Nickel	50.0	51.2000	102	60.0000	62.2	104	62.0	103	59.3	99	
Potassium	5000	4960.0000	99	6000.0000	6220	104	5550	92	4350	72	
Selenium	50.0	49.0000	98	60.0000	59.4	99	107.	178	101.	168	
Silver	50.0	51.0000	102	60.0000	59.7	100	63.1	105	63.6	106	
Sodium	5000	4740.0000	95	6000.0000	6190	103	4350	72	4200	70	
Thallium	50.0	50.0000	100	60.0000	58.6	98	68.7	114	69.7	116	
Vanadium	50.0	50.2000	100	60.0000	61.5	102	53.9	90	51.1	85	
Zinc	50.0	50.6000	101	60.0000	61.8	103	68.9	115	66.2	110	

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : ICPMSQ2

Lab Number : L2343170
 Project Number : 2230119
 Units : ug/l

Parameter	Initial Calibration			Continuing Calibration(s)							
	Lab ID	R1724650-1		R1724650-3			R1724650-5		R1724650-16		
	Date Analyzed:	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum		50.0	51.8000	104	60.0000	59.6	99	62.7	104	59.7	100
Antimony		50.0	49.0000	98	60.0000	58.0	97	57.9	96	57.5	96
Arsenic		50.0	48.6000	97	60.0000	59.9	100	61.4	102	59.9	100
Barium		50.0	47.7000	95	60.0000	57.6	96	57.2	95	57.8	96
Beryllium		50.0	51.1000	102	60.0000	59.7	100	59.9	100	57.9	96
Cadmium		50.0	49.1000	98	60.0000	58.7	98	58.8	98	58.5	98
Calcium		5000	4900.0000	98	6000.0000	5740	96	5880	98	5820	97
Chromium		50.0	49.3000	99	60.0000	59.2	99	60.0	100	57.6	96
Cobalt		50.0	50.4000	101	60.0000	60.5	101	61.9	103	59.2	99
Copper		50.0	51.5000	103	60.0000	61.4	102	62.5	104	60.4	101
Iron		5000	5000.0000	100	6000.0000	6050	101	6150	102	5900	98
Lead		50.0	48.5000	97	60.0000	58.8	98	57.8	96	57.8	96
Magnesium		5000	5000.0000	100	6000.0000	5880	98	6080	101	5820	97
Manganese		50.0	50.7000	101	60.0000	59.3	99	60.8	101	59.1	98
Nickel		50.0	51.6000	103	60.0000	61.6	103	62.2	104	59.2	99
Potassium		5000	4910.0000	98	6000.0000	5750	96	5840	97	5810	97
Selenium		50.0	49.8000	100	60.0000	59.4	99	60.2	100	59.8	100
Silver		50.0	48.7000	97	60.0000	57.5	96	57.5	96	57.4	96
Sodium		5000	4750.0000	95	6000.0000	5770	96	5880	98	5600	93
Thallium		50.0	49.4000	99	60.0000	57.1	95	57.4	96	57.6	96
Vanadium		50.0	50.1000	100	60.0000	58.9	98	59.2	99	57.2	95
Zinc		50.0	50.6000	101	60.0000	60.7	101	62.7	104	60.8	101

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : ICPMSQ2

Lab Number : L2343170
 Project Number : 2230119
 Units : ug/l

Parameter	Initial Calibration			Continuing Calibration(s)							
	Lab ID	R1727793-1		R1727793-4			R1727793-6				
	Date Analyzed:	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum		50.0	52.4000	105	60.0000	60.5	101	62.3	104		
Antimony		50.0	48.3000	97	60.0000	59.2	99	59.6	99		
Arsenic		50.0	46.2000	92	60.0000	59.7	100	59.4	99		
Barium		50.0	47.1000	94	60.0000	59.7	100	60.2	100		
Beryllium		50.0	48.7000	97	60.0000	59.6	99	58.7	98		
Cadmium		50.0	48.9000	98	60.0000	59.7	100	60.4	101		
Calcium		5000	4940.0000	99	6000.0000	6030	100	6080	101		
Chromium		50.0	49.0000	98	60.0000	60.4	101	59.0	98		
Cobalt		50.0	48.3000	97	60.0000	60.8	101	59.5	99		
Copper		50.0	48.7000	97	60.0000	62.1	104	59.0	98		
Iron		5000	4850.0000	97	6000.0000	5990	100	5990	100		
Lead		50.0	49.9000	100	60.0000	61.5	102	61.2	102		
Magnesium		5000	5170.0000	103	6000.0000	6190	103	6240	104		
Manganese		50.0	49.8000	100	60.0000	59.6	99	59.5	99		
Nickel		50.0	49.9000	100	60.0000	61.0	102	59.2	99		
Potassium		5000	5020.0000	100	6000.0000	6060	101	6200	103		
Selenium		50.0	49.2000	98	60.0000	57.8	96	59.9	100		
Silver		50.0	49.2000	98	60.0000	60.0	100	60.3	100		
Sodium		5000	5080.0000	102	6000.0000	6080	101	6130	102		
Thallium		50.0	48.2000	96	60.0000	60.4	101	60.1	100		
Vanadium		50.0	48.9000	98	60.0000	59.6	99	59.0	98		
Zinc		50.0	49.9000	100	60.0000	61.2	102	60.6	101		

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : ICPMSQ2

Lab Number : L2343170
 Project Number : 2230119
 Units : ug/l

Parameter	Initial Calibration			Continuing Calibration(s)							
	Lab ID	R1729336-1		R1729336-4			R1729336-6		R1729336-9		
	Date Analyzed:	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum		50.0	46.5000	93	60.0000	57.5	96	53.9	90	54.2	90
Antimony		50.0	47.2000	94	60.0000	57.4	96	56.3	94	56.7	94
Arsenic		50.0	46.9000	94	60.0000	58.7	98	56.6	94	57.6	96
Barium		50.0	45.3000	91	60.0000	56.2	94	54.8	91	55.0	92
Beryllium		50.0	48.2000	96	60.0000	60.0	100	57.9	96	59.1	98
Cadmium		50.0	48.7000	97	60.0000	59.6	99	57.0	95	57.7	96
Calcium		5000	4920.0000	98	6000.0000	6070	101	5750	96	5770	96
Chromium		50.0	47.6000	95	60.0000	59.3	99	56.4	94	56.6	94
Cobalt		50.0	47.6000	95	60.0000	59.8	100	57.8	96	57.9	96
Copper		50.0	48.7000	97	60.0000	59.6	99	58.1	97	58.2	97
Iron		5000	4760.0000	95	6000.0000	5850	98	5640	94	5620	94
Lead		50.0	47.4000	95	60.0000	57.3	96	56.1	94	55.6	93
Magnesium		5000	4870.0000	97	6000.0000	6130	102	5830	97	5710	95
Manganese		50.0	48.4000	97	60.0000	58.8	98	57.9	96	55.6	93
Nickel		50.0	48.7000	97	60.0000	59.8	100	57.6	96	58.4	97
Potassium		5000	4740.0000	95	6000.0000	5990	100	5750	96	5700	95
Selenium		50.0	46.6000	93	60.0000	58.5	98	56.1	94	57.5	96
Silver		50.0	49.1000	98	60.0000	58.9	98	56.8	95	57.1	95
Sodium		5000	4760.0000	95	6000.0000	6100	102	5790	96	5730	96
Thallium		50.0	46.6000	93	60.0000	57.2	95	55.8	93	55.2	92
Vanadium		50.0	46.5000	93	60.0000	60.1	100	57.1	95	56.5	94
Zinc		50.0	48.9000	98	60.0000	60.7	101	58.3	97	58.6	98

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : ICPMSQ2

Lab Number : L2343170
 Project Number : 2230119
 Units : ug/l

Parameter	Initial Calibration			Continuing Calibration(s)							
	Lab ID			R1729336-11			R1729336-13				
	Date Analyzed:	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum				60.0000	52.5	88	54.4	91			
Antimony				60.0000	56.2	94	54.8	91			
Arsenic				60.0000	55.9	93	54.2	90			
Barium				60.0000	54.6	91	52.4	87			
Beryllium				60.0000	58.7	98	56.2	94			
Cadmium				60.0000	57.2	95	55.1	92			
Calcium				6000.0000	5560	93	5230	87			
Chromium				60.0000	54.9	92	52.0	87			
Cobalt				60.0000	56.0	93	52.7	88			
Copper				60.0000	57.1	95	54.6	91			
Iron				6000.0000	5510	92	5140	86			
Lead				60.0000	54.6	91	53.3	89			
Magnesium				6000.0000	5530	92	5140	86			
Manganese				60.0000	54.0	90	51.2	85			
Nickel				60.0000	55.8	93	52.3	87			
Potassium				6000.0000	5450	91	5150	86			
Selenium				60.0000	54.6	91	54.4	91			
Silver				60.0000	56.8	95	55.3	92			
Sodium				6000.0000	5440	91	5090	85			
Thallium				60.0000	54.4	91	53.1	88			
Vanadium				60.0000	53.8	90	51.3	86			
Zinc				60.0000	57.1	95	54.4	91			

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 3 Blanks

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : ICPMSQ2

Lab Number : L2343170
 Project Number : 2230119

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank			
	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		
	Lab ID : R1724650-8		R1724650-11		R1724650-13		R1724650-15		WG1809786-1	
	Date Analyzed: 08/01/23 09:06		08/01/23 09:31		08/01/23 10:29		08/01/23 11:22		08/01/23 14:17	
Aluminum	3.27	U	3.27	U	3.27	U	3.27	U	0.00327	U
Antimony	0.429	U	0.429	U	0.429	U	0.429	U	0.00042	U
Arsenic	0.165	U	0.165	U	0.165	U	0.165	U	0.00016	U
Barium	0.173	U	0.173	U	0.173	U	0.173	U	0.00017	U
Beryllium	0.107	U	0.107	U	0.107	U	0.107	U	0.00010	U
Cadmium	0.0599	U	0.0599	U	0.0599	U	0.0599	U	0.00005	U
Calcium	39.4	U	39.4	U	39.4	U	39.4	U	0.0394	U
Chromium	0.178	U	0.178	U	0.178	U	0.178	U	0.00017	U
Cobalt	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Copper	0.384	U	0.384	U	0.384	U	0.384	U	0.00038	U
Iron	19.1	U	19.1	U	19.1	U	19.1	U	0.0191	U
Lead	0.343	U	0.343	U	0.343	U	0.343	U	0.00034	U
Magnesium	24.2	U	24.2	U	24.2	U	24.2	U	0.0242	U
Manganese	0.440	U	0.440	U	0.440	U	0.440	U	0.00044	U
Nickel	0.556	U	0.556	U	0.556	U	0.556	U	0.00055	U
Potassium	30.9	U	30.9	U	30.9	U	30.9	U	0.0309	U
Selenium	1.73	U	1.73	U	1.73	U	1.73	U	0.00173	U
Silver	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Sodium	29.3	U	29.3	U	29.3	U	29.3	U	0.0293	U
Thallium	0.203	J	0.232	J	0.257	J	0.274	J	0.00014	U
Vanadium	1.57	U	1.57	U	1.57	U	1.57	U	0.00157	U
Zinc	3.41	U	3.41	U	3.41	U	3.41	U	0.00341	U



Form 3 Blanks

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : ICPMSQ2

Lab Number : L2343170
 Project Number : 2230119

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	ug/l	Q	ug/l	Q	ug/l	Q	Q	
Aluminum	3.27	U	3.27	U	3.27	U	3.27	U
Antimony	0.429	U	0.429	U	0.429	U	0.429	U
Arsenic	0.165	U	0.165	U	0.165	U	0.165	U
Barium	0.173	U	0.173	U	0.173	U	0.173	U
Beryllium	0.107	U	0.107	U	0.107	U	0.107	U
Cadmium	0.0599	U	0.0599	U	0.0599	U	0.0599	U
Calcium	39.4	U	39.4	U	39.4	U	39.4	U
Chromium	0.178	U	0.178	U	0.178	U	0.178	U
Cobalt	0.163	U	0.163	U	0.163	U	0.163	U
Copper	0.384	U	0.384	U	0.384	U	0.384	U
Iron	19.1	U	19.1	U	19.1	U	19.1	U
Lead	0.343	U	0.343	U	0.343	U	0.343	U
Magnesium	24.2	U	24.2	U	24.2	U	24.2	U
Manganese	0.440	U	0.440	U	0.440	U	0.440	U
Nickel	0.556	U	0.556	U	0.556	U	0.556	U
Potassium	30.9	U	30.9	U	30.9	U	30.9	U
Selenium	1.73	U	1.73	U	1.73	U	1.73	U
Silver	0.163	U	0.163	U	0.163	U	0.163	U
Sodium	29.3	U	29.3	U	29.3	U	29.3	U
Thallium	0.182	J	0.173	J	0.187	J	0.183	J
Vanadium	1.57	U	1.57	U	1.57	U	1.57	U
Zinc	3.41	U	3.41	U	3.41	U	3.41	U



Form 3 Blanks

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : ICPMSQ2

Lab Number : L2343170
 Project Number : 2230119

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q
Aluminum	3.27	U	3.27	U	3.27	U		
Antimony	0.429	U	0.429	U	0.429	U		
Arsenic	0.165	U	0.165	U	0.165	U		
Barium	0.173	U	0.173	U	0.173	U		
Beryllium	0.107	U	0.107	U	0.107	U		
Cadmium	0.0599	U	0.0599	U	0.0599	U		
Calcium	39.4	U	39.4	U	39.4	U		
Chromium	0.178	U	0.178	U	0.178	U		
Cobalt	0.163	U	0.163	U	0.163	U		
Copper	0.384	U	0.384	U	0.384	U		
Iron	19.1	U	19.1	U	19.1	U		
Lead	0.343	U	0.343	U	0.343	U		
Magnesium	24.2	U	24.2	U	24.2	U		
Manganese	0.440	U	0.440	U	0.440	U		
Nickel	0.556	U	0.556	U	0.556	U		
Potassium	30.9	U	30.9	U	30.9	U		
Selenium	1.73	U	1.73	U	1.73	U		
Silver	0.163	U	0.163	U	0.163	U		
Sodium	29.3	U	29.3	U	29.3	U		
Thallium	0.336	J	0.333	J	0.292	J		
Vanadium	1.57	U	1.57	U	1.57	U		
Zinc	3.41	U	3.41	U	3.41	U		



Form 3 Blanks

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : ICPMSQ2

Lab Number : L2343170
 Project Number : 2230119

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	ug/l	Q	ug/l	Q	ug/l	Q	Q	
Aluminum	3.27	U	3.27	U	3.27	U	3.27	U
Antimony	0.429	U	0.429	U	0.429	U	0.429	U
Arsenic	0.247	J	0.254	J	0.210	J	0.257	J
Barium	0.173	U	0.173	U	0.173	U	0.173	U
Beryllium	0.107	U	0.107	U	0.107	U	0.107	U
Cadmium	0.0599	U	0.0599	U	0.0599	U	0.0599	U
Calcium	39.4	U	39.4	U	39.4	U	39.4	U
Chromium	0.178	U	0.178	U	0.178	U	0.178	U
Cobalt	0.163	U	0.163	U	0.163	U	0.163	U
Copper	0.384	U	0.384	U	0.384	U	0.384	U
Iron	19.1	U	19.1	U	19.1	U	19.1	U
Lead	0.343	U	0.343	U	0.343	U	0.343	U
Magnesium	24.2	U	24.2	U	24.2	U	24.2	U
Manganese	0.440	U	0.440	U	0.440	U	0.440	U
Nickel	0.556	U	0.556	U	0.556	U	0.556	U
Potassium	30.9	U	30.9	U	30.9	U	30.9	U
Selenium	1.73	U	1.73	U	1.73	U	1.97	J
Silver	0.163	U	0.163	U	0.163	U	0.163	U
Sodium	29.3	U	29.3	U	29.3	U	29.3	U
Thallium	0.296	J	0.309	J	0.296	J	0.317	J
Vanadium	1.57	U	1.57	U	1.57	U	1.57	U
Zinc	3.41	U	3.41	U	3.41	U	3.41	U



Form 3 Blanks

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : ICPMSQ2

Lab Number : L2343170
 Project Number : 2230119

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q
Aluminum			3.27	U	3.27	U		
Antimony			0.429	U	0.429	U		
Arsenic			0.207	J	0.256	J		
Barium			0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U		
Chromium			0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U		
Copper			0.384	U	0.384	U		
Iron			19.1	U	19.1	U		
Lead			0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U		
Manganese			0.440	U	0.440	U		
Nickel			0.556	U	0.556	U		
Potassium			30.9	U	30.9	U		
Selenium			1.73	U	1.73	U		
Silver			0.163	U	0.163	U		
Sodium			29.3	U	29.3	U		
Thallium			0.311	J	0.335	J		
Vanadium			1.57	U	1.57	U		
Zinc			3.41	U	3.41	U		



Form 4a Interference Check Sample

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : ICPMSQ2

Lab Number : L2343170
 Project Number : 2230119
 Concentration Units : ug/l

	True		Initial Found		Final Found
Lab ID :			R1724650-9		
Analysis Date :			08/01/23 09:17		
	Sol.	Sol.	Sol.	Sol.	Sol.
	A	AB	A	%R	AB
Analyte					

Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	20000		19500	98						
Antimony			0.0506							
Arsenic			0.110							
Barium			0.262							
Beryllium			0.0200							
Cadmium			0.101							
Calcium	60000		60000	100						
Chromium			0.276							
Cobalt			0.416							
Copper			0.248							
Iron	50000		51100	102						
Lead			0.332							
Magnesium	20000		20500	102						
Manganese			0.913							
Nickel			0.785							
Potassium	20000		19800	99						
Selenium			0.758							
Silver			0.00761							
Sodium	50000		50000	100						
Thallium			0.0342							
Vanadium			-0.0451							
Zinc			1.54							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%



Form 4a Interference Check Sample

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : ICPMSQ2

Lab Number : L2343170
 Project Number : 2230119
 Concentration Units : ug/l

Analyte	True		Initial Found		Final Found					
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	20000		20400	102						
Antimony			0.0516							
Arsenic			0.0929							
Barium			0.322							
Beryllium			0.0101							
Cadmium			0.0980							
Calcium	60000		61200	102						
Chromium			0.372							
Cobalt			0.443							
Copper			0.338							
Iron	50000		50100	100						
Lead			0.370							
Magnesium	20000		21200	106						
Manganese			1.02							
Nickel			0.770							
Potassium	20000		20800	104						
Selenium			0.921							
Silver			0.00989							
Sodium	50000		55600	111						
Thallium			0.0588							
Vanadium			-0.0194							
Zinc			1.98							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%



Form 4a Interference Check Sample

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : ICPMSQ2

Lab Number : L2343170
 Project Number : 2230119
 Concentration Units : ug/l

Analyte	True		Initial Found		Final Found					
	Lab ID :		R1729336-3							
	Analysis Date :		08/13/23 09:25							
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	20000		18800	94						
Antimony			0.101							
Arsenic			0.164							
Barium			0.247							
Beryllium			0.00754							
Cadmium			0.114							
Calcium	60000		59100	98						
Chromium			0.340							
Cobalt			0.442							
Copper			0.350							
Iron	50000		48600	97						
Lead			0.326							
Magnesium	20000		19700	98						
Manganese			0.902							
Nickel			0.995							
Potassium	20000		19600	98						
Selenium			1.26							
Silver			0.00532							
Sodium	50000		50700	101						
Thallium			0.0622							
Vanadium			0.00276							
Zinc			1.09							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%



Form 5a Matrix Spike

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Client Sample ID : YS-MW-2023-01 072623
 Lab Sample ID : L2343170-01
 Matrix Spike : WG1809786-3
 Matrix Spike Dup : WG1809786-4

Lab Number : L2343170
 Project Number : 2230119
 Matrix : WATER
 MS Analysis Date : 08/01/23 14:31
 MSD Analysis Date : 08/01/23 14:40

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Aluminum, Total	0.251	2	2.42	108	2	2.33	104	4	75-125	20
Antimony, Total	ND	0.5	0.4896	98	0.5	0.4690	94	4	75-125	20
Arsenic, Total	0.00151	0.12	0.1288	106	0.12	0.1292	106	0	75-125	20
Barium, Total	0.1529	2	2.146	100	2	2.131	99	1	75-125	20
Beryllium, Total	ND	0.05	0.05231	105	0.05	0.05228	104	0	75-125	20
Cadmium, Total	0.00015J	0.053	0.05626	106	0.053	0.05481	103	3	75-125	20
Calcium, Total	115.	10	116.	10 Q	10	112.	0 Q	4	75-125	20
Chromium, Total	0.00105	0.2	0.2052	102	0.2	0.2017	100	2	75-125	20
Cobalt, Total	0.00031J	0.5	0.5170	103	0.5	0.4990	100	4	75-125	20
Copper, Total	0.1022	0.25	0.3736	108	0.25	0.3624	104	3	75-125	20
Iron, Total	0.681	1	1.75	107	1	1.71	103	2	75-125	20
Lead, Total	0.01577	0.53	0.5564	102	0.53	0.5529	101	1	75-125	20
Magnesium, Total	25.9	10	36.6	107	10	35.1	92	4	75-125	20
Manganese, Total	0.08169	0.5	0.6126	106	0.5	0.5849	101	5	75-125	20
Nickel, Total	0.00357	0.5	0.5139	102	0.5	0.4962	98	4	75-125	20
Potassium, Total	7.32	10	16.9	96	10	16.6	93	2	75-125	20
Selenium, Total	0.00538	0.12	0.128	102	0.12	0.126	100	2	75-125	20
Silver, Total	ND	0.05	0.04886	98	0.05	0.04811	96	2	75-125	20
Sodium, Total	5.88	10	15.6	97	10	14.8	89	5	75-125	20
Thallium, Total	ND	0.12	0.1132	94	0.12	0.1141	95	1	75-125	20
Vanadium, Total	0.00187J	0.5	0.5072	101	0.5	0.4871	97	4	75-125	20
Zinc, Total	0.1250	0.5	0.6459	104	0.5	0.6399	103	1	75-125	20



Form 5a Matrix Spike

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Client Sample ID : NA
 Lab Sample ID : L2343197-01
 Matrix Spike : WG1809786-7
 Matrix Spike Dup : WG1809786-8

Lab Number : L2343170
 Project Number : 2230119
 Matrix : WATER
 MS Analysis Date : 08/13/23 11:45
 MSD Analysis Date : 08/13/23 11:50

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Aluminum, Total	0.668	2	2.57	95	2	2.69	101	5	75-125	20
Antimony, Total	0.00062J	0.5	0.4031	81	0.5	0.4138	83	3	75-125	20
Arsenic, Total	0.00046J	0.12	0.1223	102	0.12	0.1199	100	2	75-125	20
Barium, Total	0.08863	2	1.941	93	2	1.956	93	1	75-125	20
Beryllium, Total	ND	0.05	0.05160	103	0.05	0.05031	101	3	75-125	20
Cadmium, Total	ND	0.053	0.05202	98	0.053	0.05246	99	1	75-125	20
Calcium, Total	58.9	10	65.9	70 Q	10	68.6	97	4	75-125	20
Chromium, Total	0.00585	0.2	0.1902	92	0.2	0.1965	95	3	75-125	20
Cobalt, Total	0.00061	0.5	0.4759	95	0.5	0.4739	95	0	75-125	20
Copper, Total	0.00132	0.25	0.2501	100	0.25	0.2504	100	0	75-125	20
Iron, Total	1.29	1	2.24	95	1	2.30	101	3	75-125	20
Lead, Total	0.00070J	0.53	0.5102	96	0.53	0.5170	98	1	75-125	20
Magnesium, Total	15.2	10	24.4	92	10	25.8	106	6	75-125	20
Manganese, Total	0.1438	0.5	0.6057	92	0.5	0.6255	96	3	75-125	20
Nickel, Total	0.00401	0.5	0.4750	94	0.5	0.4819	96	1	75-125	20
Potassium, Total	19.9	10	28.1	82	10	29.3	94	4	75-125	20
Selenium, Total	0.00176J	0.12	0.112	93	0.12	0.121	101	8	75-125	20
Silver, Total	ND	0.05	0.04715	94	0.05	0.04728	94	0	75-125	20
Sodium, Total	108.	10	110.	20 Q	10	115.	70 Q	4	75-125	20
Thallium, Total	ND	0.12	0.1142	95	0.12	0.1166	97	2	75-125	20
Vanadium, Total	0.00179J	0.5	0.4620	92	0.5	0.4699	94	2	75-125	20
Zinc, Total	ND	0.5	0.4796	96	0.5	0.4822	96	1	75-125	20



Form 7 Laboratory Control Sample

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Client Sample ID : NA
 Lab Sample ID : WG1809786-2
 Dup Sample ID :

Lab Number : L2343170
 Project Number : 2230119
 Matrix : WATER
 LCS Analysis Date : 08/01/23 14:26
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Aluminum, Total	2.00	2.23	112.					80-120	20
Antimony, Total	0.500	0.484	97.					80-120	20
Arsenic, Total	0.120	0.124	103.					80-120	20
Barium, Total	2.00	2.06	103.					80-120	20
Beryllium, Total	0.0500	0.0523	104.					80-120	20
Cadmium, Total	0.0530	0.0564	106.					80-120	20
Calcium, Total	10.0	9.70	97.					80-120	20
Chromium, Total	0.200	0.204	102.					80-120	20
Cobalt, Total	0.500	0.519	104.					80-120	20
Copper, Total	0.250	0.264	106.					80-120	20
Iron, Total	1.00	1.04	104.					80-120	20
Lead, Total	0.530	0.559	106.					80-120	20
Magnesium, Total	10.0	10.6	106.					80-120	20
Manganese, Total	0.500	0.518	104.					80-120	20
Nickel, Total	0.500	0.518	104.					80-120	20
Potassium, Total	10.0	10.5	105.					80-120	20
Selenium, Total	0.120	0.121	101.					80-120	20
Silver, Total	0.0500	0.0500	100.					80-120	20
Sodium, Total	10.0	10.2	102.					80-120	20
Thallium, Total	0.120	0.116	96.					80-120	20
Vanadium, Total	0.500	0.507	101.					80-120	20
Zinc, Total	0.500	0.517	103.					80-120	20



Form 8 Serial Dilutions

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Client Sample ID : YS-MW-2023-01 072623
Lab Sample ID : L2343170-01
Serial Dilution ID : WG1809786-6

Lab Number : L2343170
Project Number : 2230119
Matrix : WATER
Analysis Date : 08/01/23 14:48
Analysis Date : 08/01/23 14:44

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Aluminum, Total	0.251	0.241	4	20
Barium, Total	0.1529	0.1471	4	20
Calcium, Total	115.	107.	7	20
Copper, Total	0.1022	0.1071	5	20
Magnesium, Total	25.9	25.5	2	20
Manganese, Total	0.08169	0.08050	1	20
Potassium, Total	7.32	6.54	11	20
Sodium, Total	5.88	5.35	9	20



Form 8 Serial Dilutions

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Client Sample ID : NA
Lab Sample ID : L2343197-01
Serial Dilution ID : WG1809786-10

Lab Number : L2343170
Project Number : 2230119
Matrix : WATER
Analysis Date : 08/13/23 12:03
Analysis Date : 08/13/23 11:59

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Aluminum, Total	0.668	0.709	6	20
Barium, Total	0.08863	0.08590	3	20
Calcium, Total	58.9	59.6	1	20
Iron, Total	1.29	1.37	6	20
Magnesium, Total	15.2	15.6	3	20
Manganese, Total	0.1438	0.1454	1	20
Potassium, Total	19.9	19.8	1	20
Sodium, Total	108.	106.	2	20



Form 12 Preparation Log

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Matrix : WATER

Lab Number : L2343170
Project Number : 2230119
Prep Method : EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2343170-01	07/31/23 21:47	-	50
WG1809786-1	07/31/23 21:47	-	50
WG1809786-2	07/31/23 21:47	-	50
WG1809786-3	07/31/23 21:47	-	50
WG1809786-4	07/31/23 21:47	-	50
WG1809786-6	07/31/23 21:47	-	50



Form 12 Preparation Log

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Matrix : WATER

Lab Number : L2343170
Project Number : 2230119
Prep Method : EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2343170-02	07/31/23 21:47	-	50
L2343170-03	07/31/23 21:47	-	50



Form 12 Preparation Log

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Matrix : WATER

Lab Number : L2343170
Project Number : 2230119
Prep Method : EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG1809786-7	07/31/23 21:47	-	50
WG1809786-8	07/31/23 21:47	-	50
WG1809786-10	07/31/23 21:47	-	50



Form 13 Analysis Run Log

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : ICPMSQ2
 Start Date : 08/01/23 07:56

Lab Number : L2343170
 Project Number : 2230119
 Analysis Method : 1,6020B
 End Date : 08/01/23 14:59

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1724650-36 TUNE		07:56:00																						
R1724650-7 ICV	1	09:02:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1724650-8 ICB	1	09:06:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1724650-9 ICSA	1	09:17:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1724650-10 CCV	1	09:26:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1724650-11 CCB	1	09:31:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1724650-12 CCV	1	10:24:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1724650-13 CCB	1	10:29:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1724650-14 CCV	1	11:17:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1724650-15 CCB	1	11:22:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1724650-1 ICV	1	12:08:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1724650-2 ICB	1	12:12:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1724650-3 CCV	1	12:58:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1724650-4 CCB	1	13:02:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1724650-5 CCV	1	13:50:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1724650-6 CCB	1	13:55:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1809786-1 BLANK	1	14:17:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1809786-2 LCS	5	14:26:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1809786-3 MS	10	14:31:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1809786-4 MSD	10	14:40:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1809786-6 SERDIL	5	14:44:29	X			X		X			X				X	X		X			X			
L2343170-01	1	14:48:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1724650-16 CCV	1	14:55:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1724650-17 CCB	1	14:59:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Form 13 Analysis Run Log

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : ICPMSQ2
 Start Date : 08/09/23 05:38

Lab Number : L2343170
 Project Number : 2230119
 Analysis Method : 1,6020B
 End Date : 08/09/23 07:58

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1727793-8 TUNE		05:38:00																						
R1727793-1 ICV	1	06:33:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1727793-2 ICB	1	06:37:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1727793-3 ICSA	1	06:51:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1727793-4 CCV	1	06:59:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1727793-5 CCB	1	07:04:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2343170-02	1	07:09:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2343170-03	1	07:14:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1727793-6 CCV	1	07:54:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1727793-7 CCB	1	07:58:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Form 13 Analysis Run Log

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : ICPMSQ2
 Start Date : 08/13/23 08:15

Lab Number : L2343170
 Project Number : 2230119
 Analysis Method : 1,6020B
 End Date : 08/13/23 12:38

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1729336-8 TUNE		08:15:00																						
R1729336-1 ICV	1	09:11:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1729336-2 ICB	1	09:15:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1729336-3 ICSA	1	09:25:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1729336-4 CCV	1	09:34:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1729336-5 CCB	1	09:39:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1729336-6 CCV	1	10:28:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1729336-7 CCB	1	10:33:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1729336-9 CCV	1	11:29:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1729336-10 CCB	1	11:34:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1809786-7 MS	10	11:45:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1809786-8 MSD	10	11:50:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1809786-10 SERDIL	5	11:59:08	X			X		X				X		X	X		X		X					
R1729336-11 CCV	1	12:23:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1729336-12 CCB	1	12:28:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1729336-13 CCV	1	12:33:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1729336-14 CCB	1	12:38:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Form 14

ICP-MS Tune

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Lab Sample ID : R1724650-36
ICP-MS Instrument : iCAP Q

Lab Number : L2343170
Project Number : 2230119
Analysis Date : 08/01/23 07:56

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
59 Co	58.9352	0.706	1.1
115 In	114.8826	0.731	0.9
7 Li	7.0168	0.698	1.4
238 U	238.0285	0.739	0.3



Form 14

ICP-MS Tune

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Lab Sample ID : R1727793-8
ICP-MS Instrument : iCAP Q

Lab Number : L2343170
Project Number : 2230119
Analysis Date : 08/09/23 05:38

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
59 Co	58.9193	0.712	0.8
115 In	114.8539	0.749	0.6
7 Li	7.0149	0.704	0.7
238 U	237.9801	0.732	0.7



Form 14

ICP-MS Tune

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Lab Sample ID : R1729336-8
ICP-MS Instrument : iCAP Q

Lab Number : L2343170
Project Number : 2230119
Analysis Date : 08/13/23 08:15

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
59 Co	58.9181	0.705	1.9
115 In	114.8578	0.734	0.5
7 Li	7.0184	0.697	0.8
238 U	238.0036	0.738	0.6



Form 15

ICP-MS Internal Standards Relative Intensity Summary

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : ICPMSQ2
 Start Date : 08/01/23

Lab Number : L2343170
 Project Number : 2230119
 Analysis Method : 1,6020B
 End Date : 08/01/23

Sample #	Time	Internal Standards %RI For:				
		Lithium	Scandium	Ge	In	Bismuth
R1724650-7 ICV	09:02:27	98	104	102	99	98
R1724650-8 ICB	09:06:57	99	102	102	102	101
R1724650-9 ICSA	09:17:37	89	101	106	99	93
R1724650-10 CCV	09:26:37	98	106	100	100	100
R1724650-11 CCB	09:31:09	100	104	101	102	104
R1724650-12 CCV	10:24:47	266	209	134	194	186
R1724650-13 CCB	10:29:20	268	202	125	182	180
R1724650-14 CCV	11:17:43	289	219	137	199	204
R1724650-15 CCB	11:22:15	280	203	132	194	201
R1724650-1 ICV	12:08:09	98	106	100	101	97
R1724650-2 ICB	12:12:40	102	107	99	103	104
R1724650-3 CCV	12:58:26	109	115	103	105	104
R1724650-4 CCB	13:02:58	107	109	101	100	103
R1724650-5 CCV	13:50:37	108	113	100	101	100
R1724650-6 CCB	13:55:09	107	108	93	94	98
WG1809786-1 BLANK	14:17:40	123	120	114	116	123
WG1809786-2 LCS	14:26:37	111	114	108	104	104
WG1809786-3 MS	14:31:04	110	113	100	97	97
WG1809786-4 MSD	14:40:01	109	115	104	102	101
WG1809786-6 SERDIL	14:44:29	110	117	109	109	104
L2343170-01	14:48:58	106	130	108	108	94
R1724650-16 CCV	14:55:03	111	117	106	105	102
R1724650-17 CCB	14:59:35	106	103	104	104	107



Form 15

ICP-MS Internal Standards Relative Intensity Summary

Client	: LaBella Associates, P.C.	Lab Number	: L2343170
Project Name	: 42 YORK STREET	Project Number	: 2230119
Instrument ID	: ICPMSQ2	Analysis Method	: 1,6020B
Start Date	: 08/09/23	End Date	: 08/09/23

Sample #	Time	Internal Standards %RI For:				
		Lithium	Scandium	Ge	In	Bismuth
R1727793-1 ICV	06:33:02	84	84	86	84	88
R1727793-2 ICB	06:37:32	89	86	84	85	92
R1727793-3 ICSA	06:51:00	83	80	79	78	80
R1727793-4 CCV	06:59:59	87	88	85	86	89
R1727793-5 CCB	07:04:31	92	91	89	87	92
L2343170-02	07:09:38	91	89	86	83	83
L2343170-03	07:14:06	92	93	88	87	84
R1727793-6 CCV	07:54:20	93	93	94	90	92
R1727793-7 CCB	07:58:52	99	96	93	92	97



Form 15

ICP-MS Internal Standards Relative Intensity Summary

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID :
Start Date : 08/13/23

Lab Number : L2343170
Project Number : 2230119
Analysis Method :
End Date : 08/13/23

Sample #	Time	Internal Standards %RI For:				
		Lithium	Scandium	Ge	In	Bismuth
R1729336-1 ICV	09:11:00	95	97	98	95	95
R1729336-2 ICB	09:15:31	97	96	98	97	99
R1729336-3 ICSA	09:25:39	83	85	88	84	79
R1729336-4 CCV	09:34:38	91	96	95	89	90
R1729336-5 CCB	09:39:10	95	95	97	93	96
R1729336-6 CCV	10:28:57	92	95	96	91	92
R1729336-7 CCB	10:33:29	91	93	95	92	95
R1729336-9 CCV	11:29:52	88	93	94	88	90
R1729336-10 CCB	11:34:24	92	94	96	92	93
WG1809786-7 MS	11:45:39	90	92	93	88	88
WG1809786-8 MSD	11:50:08	93	96	97	92	92
WG1809786-10 SERDIL	11:59:08	92	95	93	90	89
R1729336-11 CCV	12:23:28	90	94	93	87	88
R1729336-12 CCB	12:28:00	95	96	97	96	97
R1729336-13 CCV	12:33:40	94	97	96	90	90
R1729336-14 CCB	12:38:12	94	95	94	94	96





Date Created: 01/22/21
Created By: Jason Hebert
File: PM9836-1
Page: 1

METALS by 6020B (WATER)

Table with 13 columns: Analyte, CAS #, RL, MDL, Units, LCS Criteria, LCS RPD, MS Criteria, MS RPD, Duplicate RPD, Surrogate Criteria, Holding Time, Container/Sample Preservation. Lists various metals like Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Lithium, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc.

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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 Page: 1

METALS by 6020B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	10	1.48	mg/kg	48-151	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Antimony, Total	7440-36-0	0.16	0.01352	mg/kg	1-208	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Arsenic, Total	7440-38-2	0.05	0.0066	mg/kg	79-121	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Barium, Total	7440-39-3	0.3	0.02112	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Beryllium, Total	7440-41-7	0.03	0.00872	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Cadmium, Total	7440-43-9	0.02	0.00264	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Calcium, Total	7440-70-2	50	6.08	mg/kg	81-119	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Chromium, Total	7440-47-3	0.2	0.0468	mg/kg	80-120	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Cobalt, Total	7440-48-4	0.05	0.00532	mg/kg	84-115	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Copper, Total	7440-50-8	0.2	0.0194	mg/kg	81-118	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Iron, Total	7439-89-6	20	2.06	mg/kg	45-155	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Lead, Total	7439-92-1	0.06	0.0146	mg/kg	81-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Magnesium, Total	7439-95-4	10	1.232	mg/kg	76-124	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Manganese, Total	7439-96-5	0.2	0.0444	mg/kg	81-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Nickel, Total	7440-02-0	0.1	0.02672	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Potassium, Total	7440-09-7	10	1.588	mg/kg	71-129	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Selenium, Total	7782-49-2	0.2	0.0756	mg/kg	78-122	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Silver, Total	7440-22-4	0.05	0.00488	mg/kg	75-124	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Sodium, Total	7440-23-5	15	1.172	mg/kg	72-127	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Thallium, Total	7440-28-0	0.02	0.00516	mg/kg	80-120	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Vanadium, Total	7440-62-2	0.1	0.03792	mg/kg	78-122	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Zinc, Total	7440-66-6	1	0.26	mg/kg	82-118	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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System

Start time: 8/1/2023 7:56:01 AM
 Instrument: iCAP Q
 Operator: ALPHALAB\la2-icpmsq2
 Template: STD AGD
 Instrument Serial Number: Q01717
 Last Autotune: Autotune-Torch Position via In115 ONLY-20230621-142123153.imatdat
 Solution: 1 ppb Tune B in 2% HNO3 and 0.5% HCl.

Sensitivity & Stability Test

Result	Runs	Sweeps
Passed	5	10

Sensitivity

Analyte	Result	Value	Condition	Limit
Bkg4.5	Passed	0.0 CPS	Less than	1.0 CPS
Bkg220.7	Passed	0.0 CPS	Less than	5.0 CPS
7Li	Passed	10,379.0 CPS	Greater than	10,000.0 CPS
59Co	Passed	29,925.0 CPS	Greater than	1,000.0 CPS
238U	Passed	63,707.0 CPS	Greater than	20,000.0 CPS
140Ce.16O/140Ce	Passed	0.0147	Less than	0.025
137Ba++/137Ba	Passed	0.0109	Less than	0.034
115In	Passed	35,721.0 CPS	Greater than	5,000.0 CPS

Stability

Analyte	Value	Limit
7Li	1.4%	5
59Co	1.1%	5
238U	0.3%	5
140Ce.16O	5.0%	2
140Ce	1.0%	2
115In	0.9%	5

Mass Calibration Test

Result	Channels	Dwell	MeasureWidth	PointSpacing	Sweeps
Passed	75	0.04	1.5	0.02	10

Analyte	Result	Centroid Mass [u]	Offset	Peak width [u]	Peak width min [u]	Peak width max [u]
7Li	Passed	7.0168	0.0008	0.698	0.650	0.850
59Co	Passed	58.9352	0.0020	0.706	0.650	0.850
115In	Passed	114.8826	0.0213	0.731	0.650	0.850
238U	Passed	238.0285	0.0223	0.739	0.650	0.850

Tune Settings

Parameter	Value
Additional Gas Flow 1	30.00
Additional Gas Flow 2	0.00
Additional Gas Flow 3	0.00
Angular Deflection	-384.97
Auxilliary Flow	0.80
CCT Bias	-3.21
CCT Entry Lens	-70.02
CCT Exit Lens	-160.01
CCT Focus Lens	-1.21
CCT1 Flow	0.00
CCT1 Shut-Off Valve	0.00
CCT2 Flow	0.00
CCT2 Shut-Off Valve	0.00
Cool Flow	14.00
D1 Lens	-200.05
D2 Lens	-90.01
Deflection Entry Lens	-35.01
Dry Pump Speed	0.00
Extraction Lens 1 Negative	0.00
Extraction Lens 1 Polarity	0.00
Extraction Lens 1 Positive	0.00
Extraction Lens 2	-182.09
Focus Lens	21.00
Nebulizer Flow	0.55
Peristaltic Pump Speed	20.00
Plasma Power	1549.58
Pole Bias	-0.97
Quad Entry Lens	-20.00
Sampling Depth	5.00
Spray Chamber Temperature	2.68
Torch Horizontal Position	-0.01
Torch Vertical Position	-1.02
Virtual CCT Mass Maximum Dac Limit Set	4095.00
Virtual CCT Mass parameter b	0.65
Virtual CCT Mass to Dac Factor	130.00
Virtual CCT Mass to Dac Offset	0.01

Vacuum Check

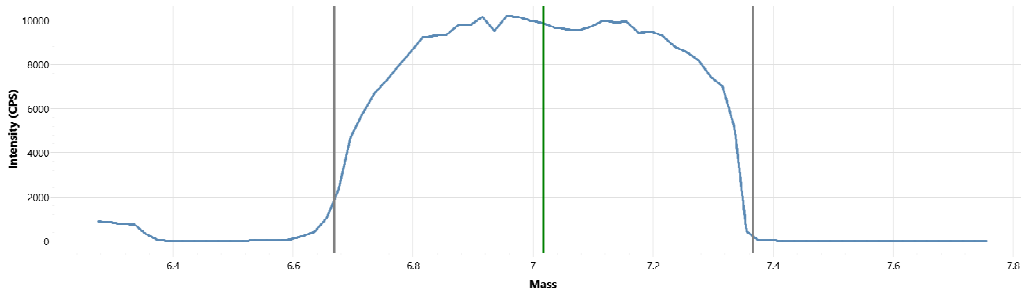
Parameter	Result	Value
Analyzer Pressure	Vacuum ok	4.721e-7
Interface Pressure		1.851e+0

Detector Voltages

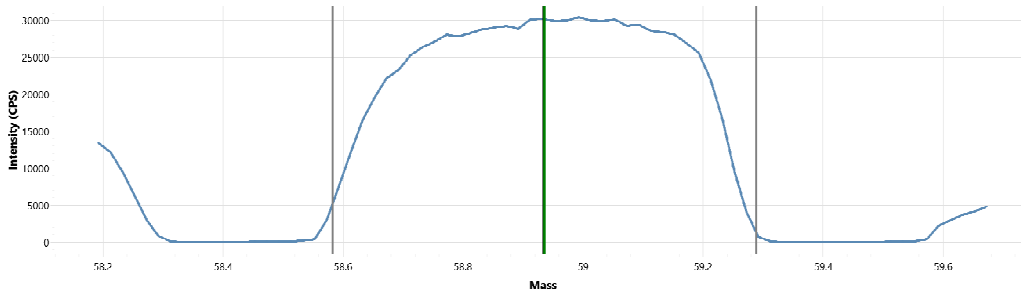
Analog	Counting
-1912.50	1412.50

Mass Calibration Peaks

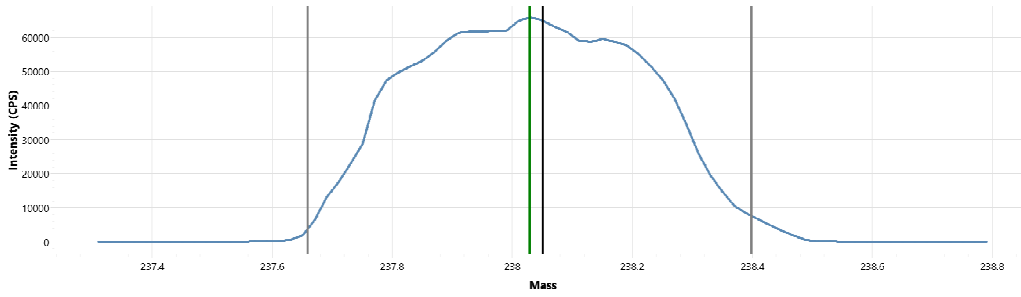
Analyte: 7Li



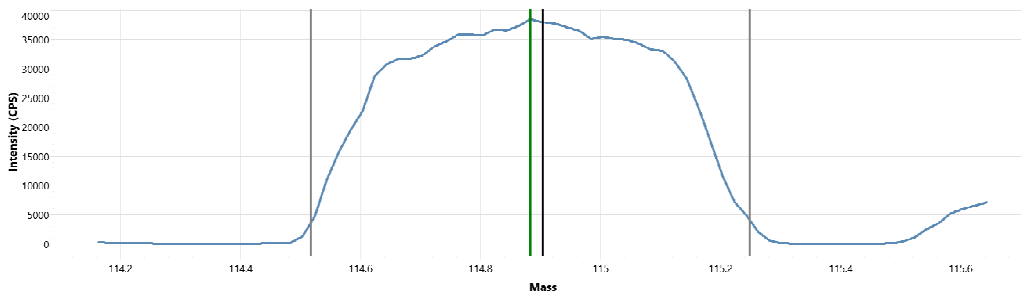
Analyte: 59Co



Analyte: 238U



Analyte: 115In



System

Start time: 8/9/2023 5:38:51 AM
 Instrument: iCAP Q
 Operator: ALPHALAB\la2-icpmsq2
 Template: STD AGD
 Instrument Serial Number: Q01717
 Last Autotune: Autotune-Torch Position via In115 ONLY-20230621-142123153.imatdat
 Solution: 1 ppb Tune B in 2% HNO3 and 0.5% HCl.

Sensitivity & Stability Test

Result	Runs	Sweeps
Passed	5	10

Sensitivity

Analyte	Result	Value	Condition	Limit
Bkg4.5	Passed	0.0 CPS	Less than	1.0 CPS
Bkg220.7	Passed	0.0 CPS	Less than	5.0 CPS
7Li	Passed	10,589.0 CPS	Greater than	10,000.0 CPS
59Co	Passed	32,687.0 CPS	Greater than	1,000.0 CPS
238U	Passed	112,839.0 CPS	Greater than	20,000.0 CPS
140Ce.16O/140Ce	Passed	0.0195	Less than	0.025
137Ba++/137Ba	Passed	0.015	Less than	0.034
115In	Passed	63,259.0 CPS	Greater than	5,000.0 CPS

Stability

Analyte	Value	Limit
7Li	0.7%	5
59Co	0.8%	5
238U	0.7%	5
140Ce.16O	3.6%	2
140Ce	0.6%	2
115In	0.6%	5

Mass Calibration Test

Result	Channels	Dwell	MeasureWidth	PointSpacing	Sweeps
Passed	75	0.04	1.5	0.02	10

Analyte	Result	Centroid Mass [u]	Offset	Peak width [u]	Peak width min [u]	Peak width max [u]
7Li	Passed	7.0149	0.0011	0.704	0.650	0.850
59Co	Passed	58.9193	0.0139	0.712	0.650	0.850
115In	Passed	114.8539	0.0500	0.749	0.650	0.850
238U	Passed	237.9801	0.0707	0.732	0.650	0.850

Tune Settings

Parameter	Value
Additional Gas Flow 1	30.00
Additional Gas Flow 2	0.00
Additional Gas Flow 3	0.00
Angular Deflection	-384.97
Auxilliary Flow	0.80
CCT Bias	-3.21
CCT Entry Lens	-70.02
CCT Exit Lens	-160.01
CCT Focus Lens	-1.90
CCT1 Flow	0.00
CCT1 Shut-Off Valve	0.00
CCT2 Flow	0.00
CCT2 Shut-Off Valve	0.00
Cool Flow	14.00
D1 Lens	-200.05
D2 Lens	-90.01
Deflection Entry Lens	-35.01
Dry Pump Speed	0.00
Extraction Lens 1 Negative	0.00
Extraction Lens 1 Polarity	0.00
Extraction Lens 1 Positive	0.00
Extraction Lens 2	-135.70
Focus Lens	21.00
Nebulizer Flow	0.54
Peristaltic Pump Speed	20.00
Plasma Power	1549.58
Pole Bias	-0.97
Quad Entry Lens	-20.00
Sampling Depth	5.00
Spray Chamber Temperature	2.68
Torch Horizontal Position	-0.01
Torch Vertical Position	-1.02
Virtual CCT Mass Maximum Dac Limit Set	4095.00
Virtual CCT Mass parameter b	0.65
Virtual CCT Mass to Dac Factor	130.00
Virtual CCT Mass to Dac Offset	0.01

Vacuum Check

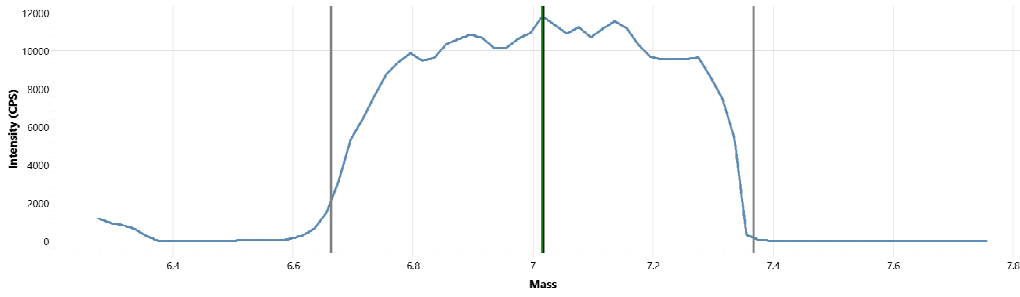
Parameter	Result	Value
Analyzer Pressure	Vacuum ok	4.124e-7
Interface Pressure		1.980e+0

Detector Voltages

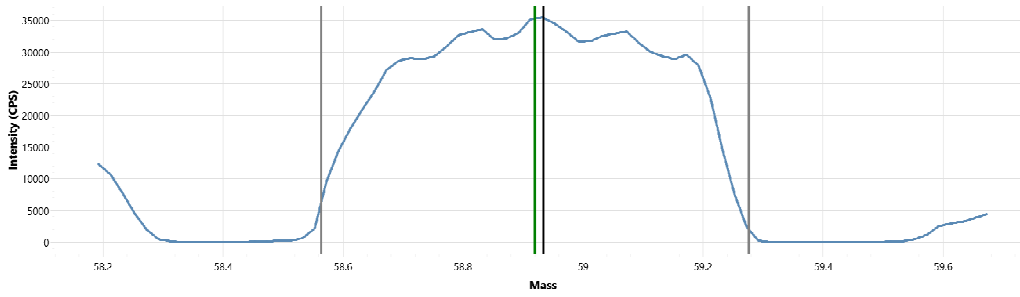
Analog	Counting
-1912.50	1412.50

Mass Calibration Peaks

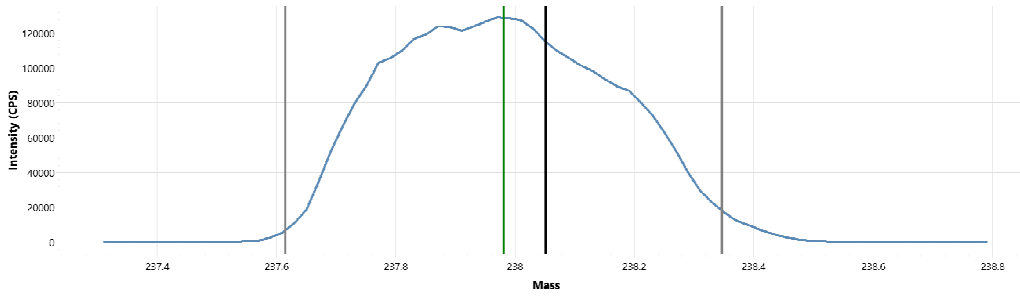
Analyte: 7Li



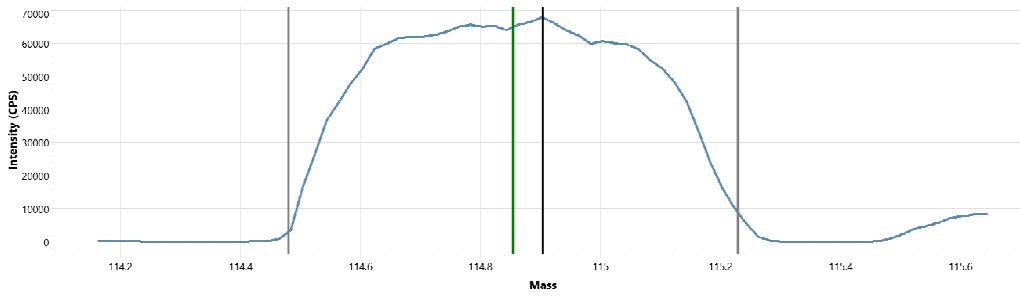
Analyte: 59Co



Analyte: 238U



Analyte: 115In



System

Start time: 8/13/2023 8:15:06 AM
 Instrument: iCAP Q
 Operator: ALPHALAB\la2-icpmsq2
 Template: STD AGD
 Instrument Serial Number: Q01717
 Last Autotune: Autotune-Torch Position via In115 ONLY-20230621-142123153.imatdat
 Solution: 1 ppb Tune B in 2% HNO3 and 0.5% HCl.

Sensitivity & Stability Test

Result	Runs	Sweeps
Passed	5	10

Sensitivity

Analyte	Result	Value	Condition	Limit
Bkg4.5	Passed	0.0 CPS	Less than	1.0 CPS
Bkg220.7	Passed	0.0 CPS	Less than	5.0 CPS
7Li	Passed	14,152.0 CPS	Greater than	10,000.0 CPS
59Co	Passed	21,288.0 CPS	Greater than	1,000.0 CPS
238U	Passed	53,817.0 CPS	Greater than	20,000.0 CPS
140Ce.16O/140Ce	Passed	0.0227	Less than	0.025
137Ba++/137Ba	Passed	0.0304	Less than	0.034
115In	Passed	26,341.0 CPS	Greater than	5,000.0 CPS

Stability

Analyte	Value	Limit
7Li	0.8%	5
59Co	1.9%	5
238U	0.6%	5
140Ce.16O	6.6%	2
140Ce	0.6%	2
115In	0.5%	5

Mass Calibration Test

Result	Channels	Dwell	MeasureWidth	PointSpacing	Sweeps
Passed	75	0.04	1.5	0.02	10

Analyte	Result	Centroid Mass [u]	Offset	Peak width [u]	Peak width min [u]	Peak width max [u]
7Li	Passed	7.0184	0.0024	0.697	0.650	0.850
59Co	Passed	58.9181	0.0151	0.705	0.650	0.850
115In	Passed	114.8578	0.0461	0.734	0.650	0.850
238U	Passed	238.0036	0.0471	0.738	0.650	0.850

Tune Settings

Parameter	Value
Additional Gas Flow 1	30.00
Additional Gas Flow 2	0.00
Additional Gas Flow 3	0.00
Angular Deflection	-384.97
Auxilliary Flow	0.80
CCT Bias	-3.21
CCT Entry Lens	-70.02
CCT Exit Lens	-160.01
CCT Focus Lens	-2.75
CCT1 Flow	0.00
CCT1 Shut-Off Valve	0.00
CCT2 Flow	0.00
CCT2 Shut-Off Valve	0.00
Cool Flow	14.00
D1 Lens	-200.05
D2 Lens	-90.01
Deflection Entry Lens	-35.01
Dry Pump Speed	0.00
Extraction Lens 1 Negative	0.00
Extraction Lens 1 Polarity	0.00
Extraction Lens 1 Positive	0.00
Extraction Lens 2	-67.32
Focus Lens	21.00
Nebulizer Flow	0.55
Peristaltic Pump Speed	17.00
Plasma Power	1549.58
Pole Bias	-0.97
Quad Entry Lens	-20.00
Sampling Depth	5.00
Spray Chamber Temperature	2.68
Torch Horizontal Position	-0.01
Torch Vertical Position	-1.02
Virtual CCT Mass Maximum Dac Limit Set	4095.00
Virtual CCT Mass parameter b	0.65
Virtual CCT Mass to Dac Factor	130.00
Virtual CCT Mass to Dac Offset	0.01

Vacuum Check

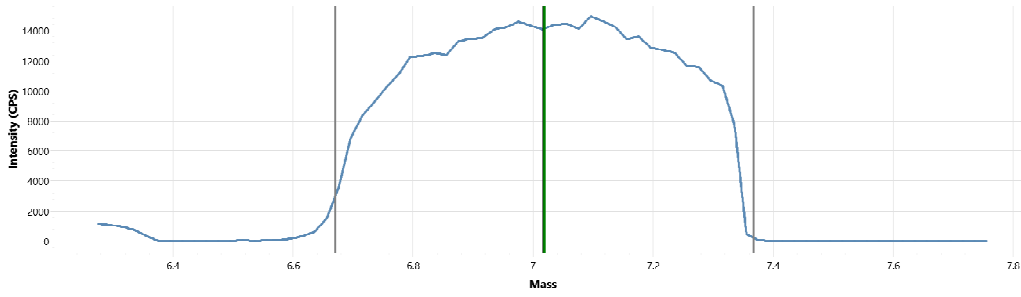
Parameter	Result	Value
Analyzer Pressure	Vacuum ok	3.220e-7
Interface Pressure		2.118e+0

Detector Voltages

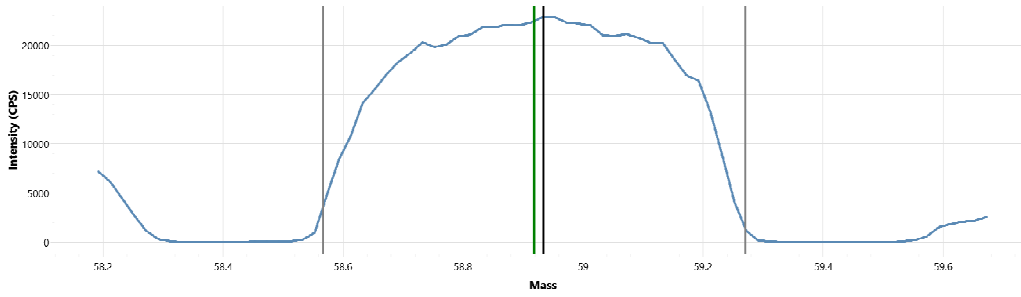
Analog	Counting
-1912.50	1412.50

Mass Calibration Peaks

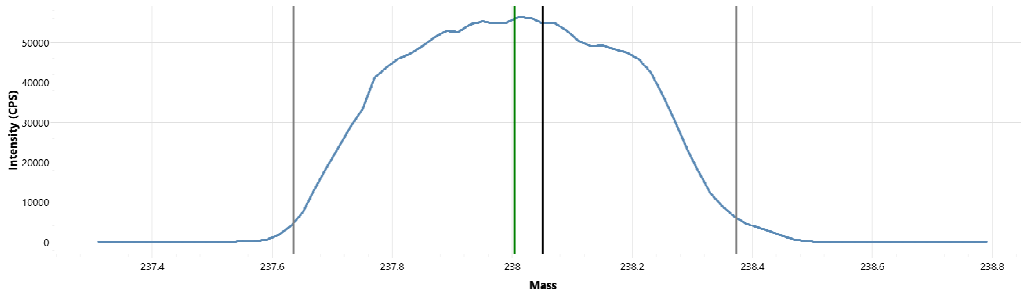
Analyte: 7Li



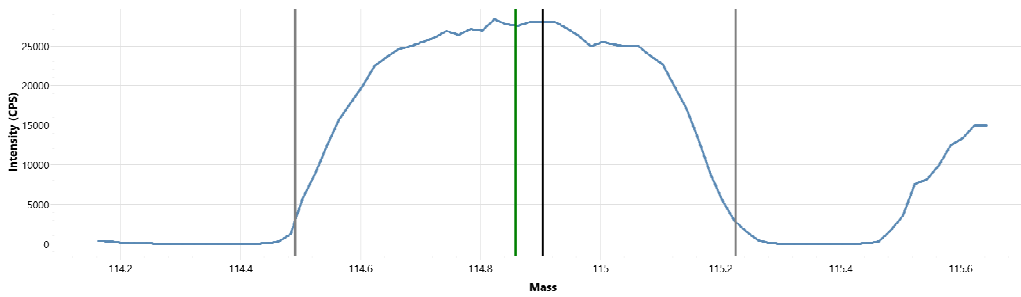
Analyte: 59Co



Analyte: 238U

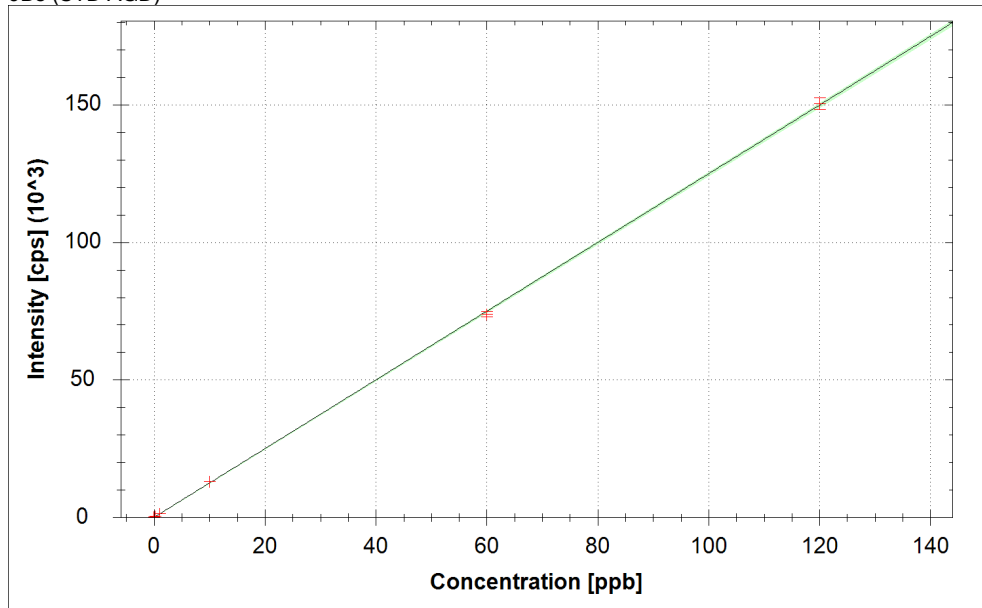


Analyte: 115In



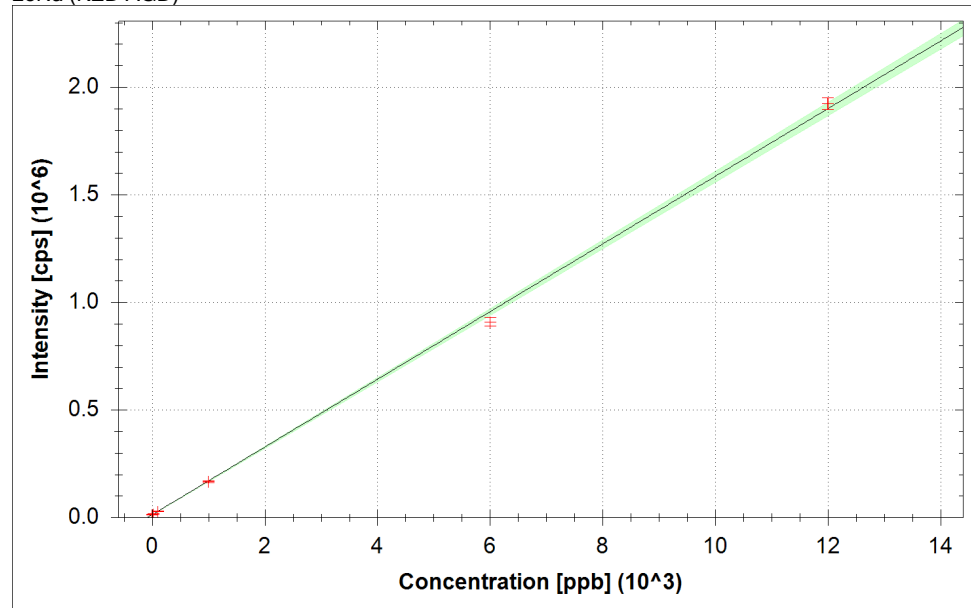
Calibration Curves:

9Be (STD AGD)



$f(x) = 1248.0129 \cdot x + 51.1062$
 $R^2 = 0.9999$
BEC = 0.041 ppb
LoD = 0.0182 ppb

23Na (KED AGD)



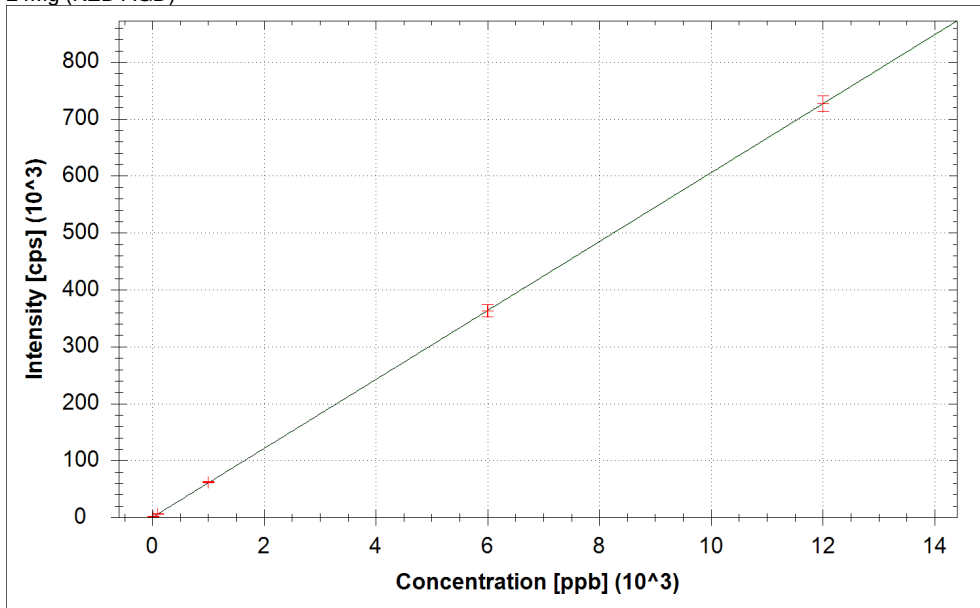
$f(x) = 157.2077 \cdot x + 12789.9108$
 $R^2 = 0.9991$
BEC = 81.357 ppb
LoD = 6.1956 ppb

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM

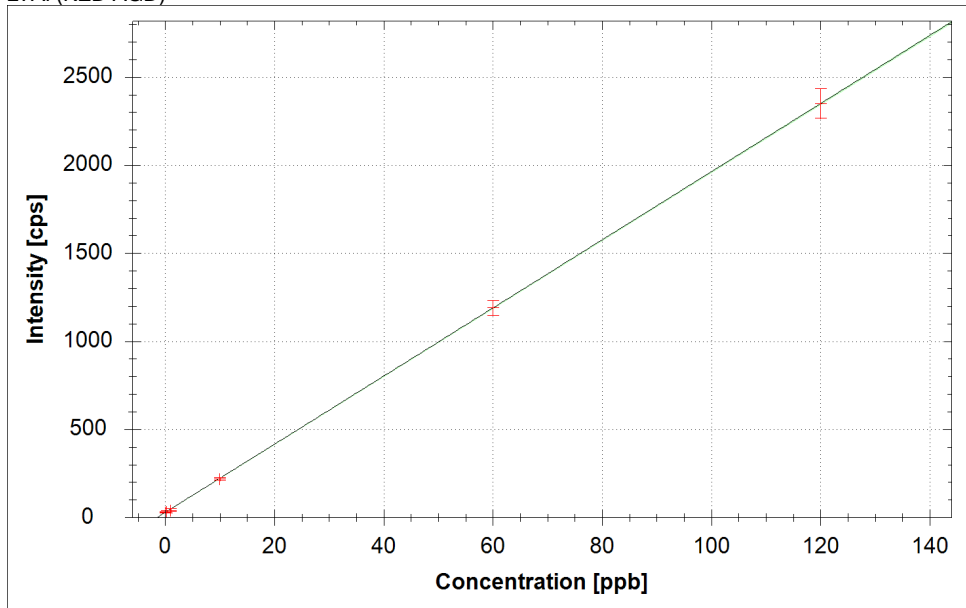


24Mg (KED AGD)



$f(x) = 60.5632 \cdot x + 46.9664$
 $R^2 = 1.0000$
BEC = 0.775 ppb
LoD = 0.9310 ppb

27Al (KED AGD)



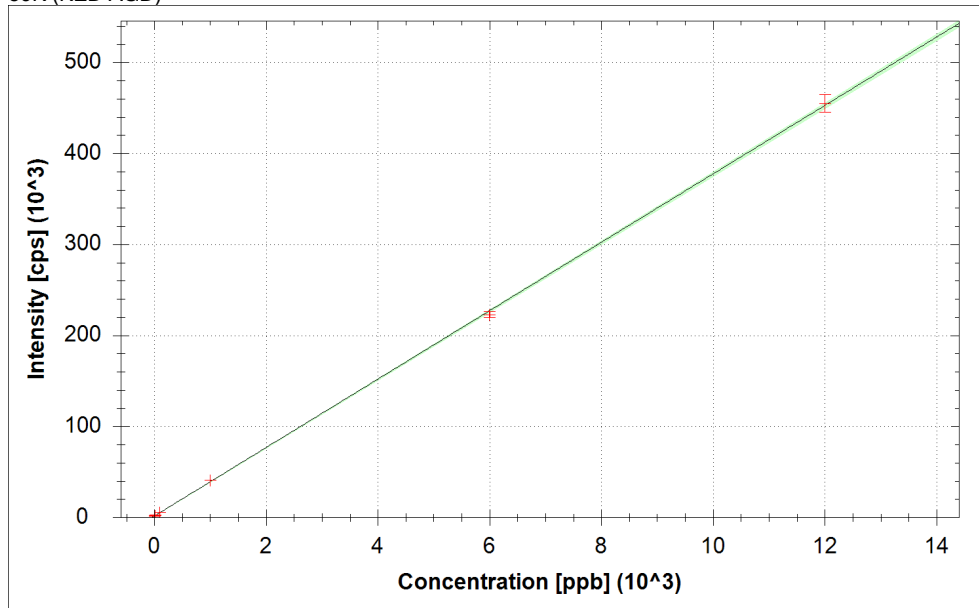
$f(x) = 19.3296 \cdot x + 29.1246$
 $R^2 = 1.0000$
BEC = 1.507 ppb
LoD = 0.5534 ppb

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM

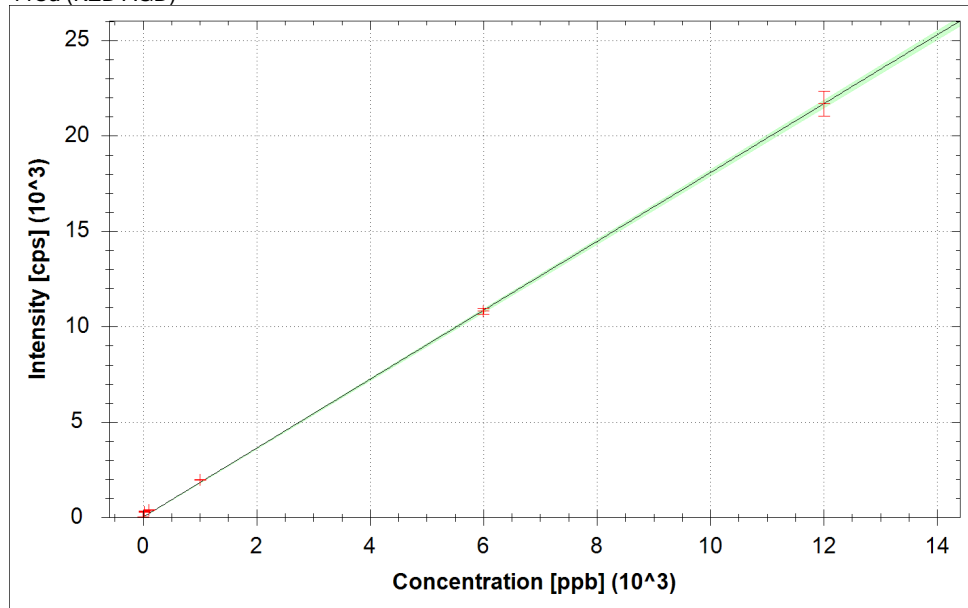


39K (KED AGD)



$f(x) = 37.5764 \cdot x + 1616.0406$
 $R^2 = 0.9998$
BEC = 43.007 ppb
LoD = 2.0725 ppb

44Ca (KED AGD)



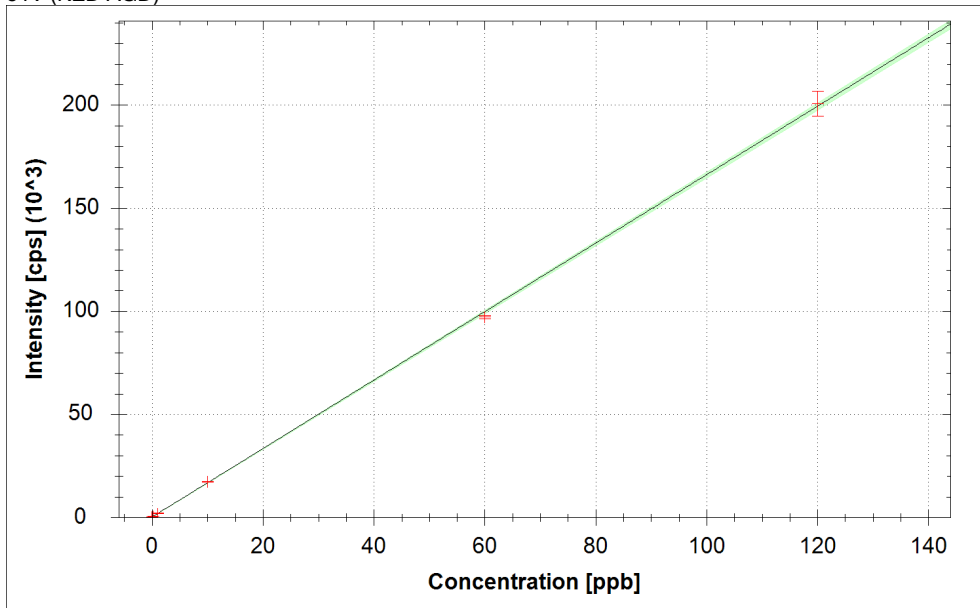
$f(x) = 1.8053 \cdot x + 18.8342$
 $R^2 = 0.9997$
BEC = 10.433 ppb
LoD = 10.6251 ppb

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM

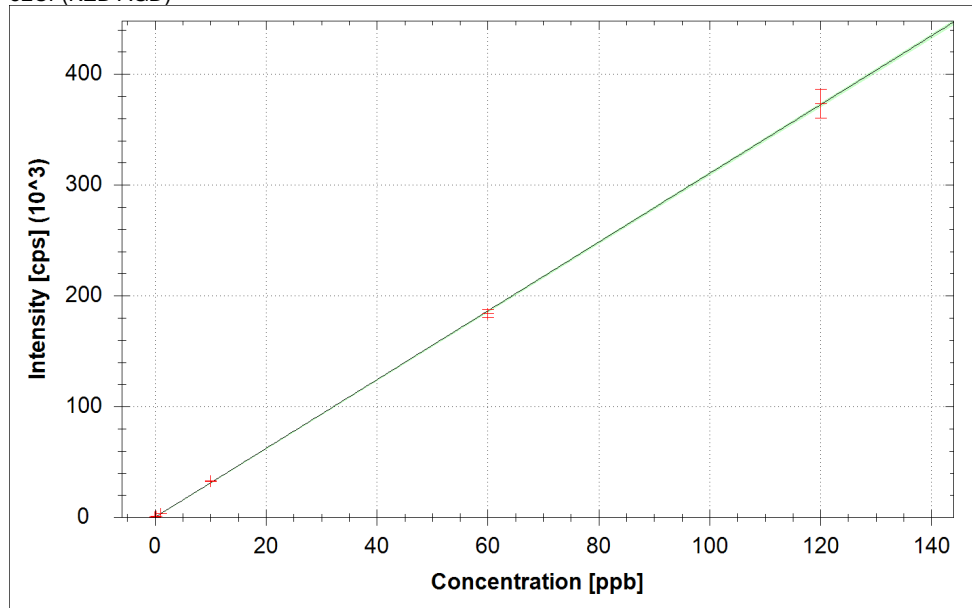


51V (KED AGD)



$f(x) = 1659.7691 \cdot x + 219.4984$
 $R^2 = 0.9997$
BEC = 0.132 ppb
LoD = 0.0528 ppb

52Cr (KED AGD)



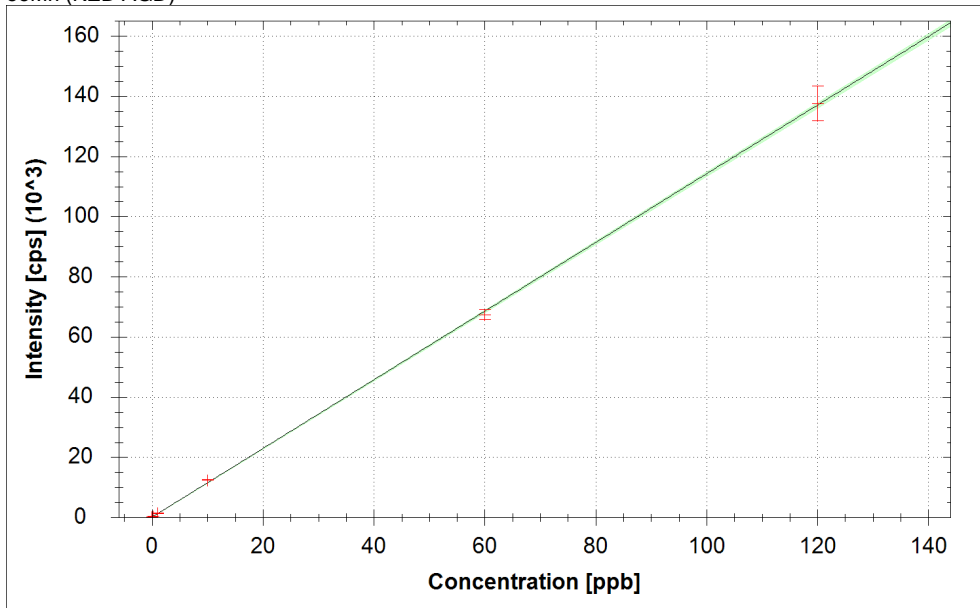
$f(x) = 3101.0058 \cdot x + 208.3118$
 $R^2 = 0.9999$
BEC = 0.067 ppb
LoD = 0.0488 ppb

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM

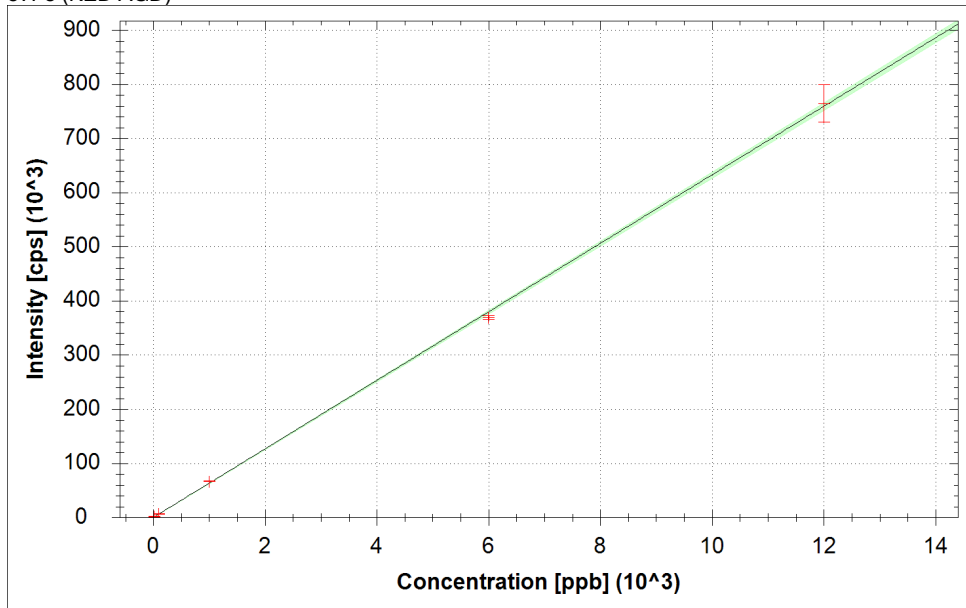


55Mn (KED AGD)



$f(x) = 1140.6528 \cdot x + 120.4685$
 $R^2 = 0.9998$
BEC = 0.106 ppb
LoD = 0.0709 ppb

57Fe (KED AGD)



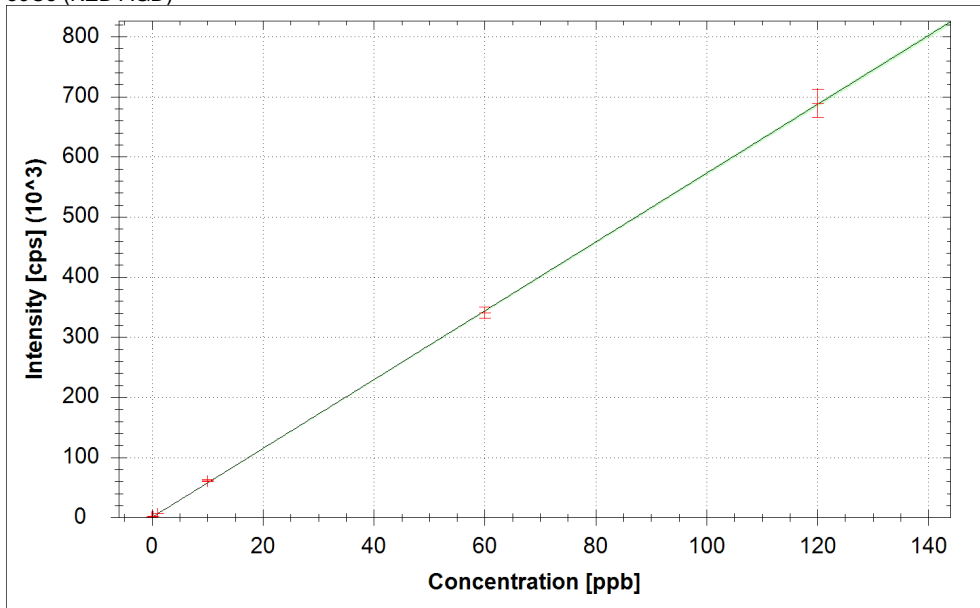
$f(x) = 63.2457 \cdot x + 80.1578$
 $R^2 = 0.9997$
BEC = 1.267 ppb
LoD = 0.6816 ppb

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM

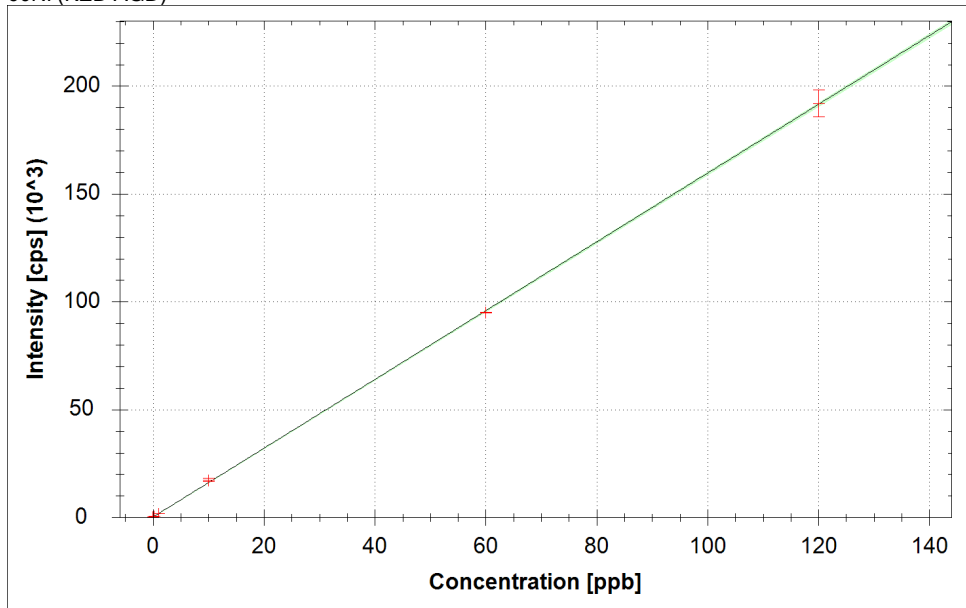


59Co (KED AGD)



$f(x) = 5723.0979 \cdot x + 275.7205$
 $R^2 = 0.9999$
BEC = 0.048 ppb
LoD = 0.0053 ppb

60Ni (KED AGD)



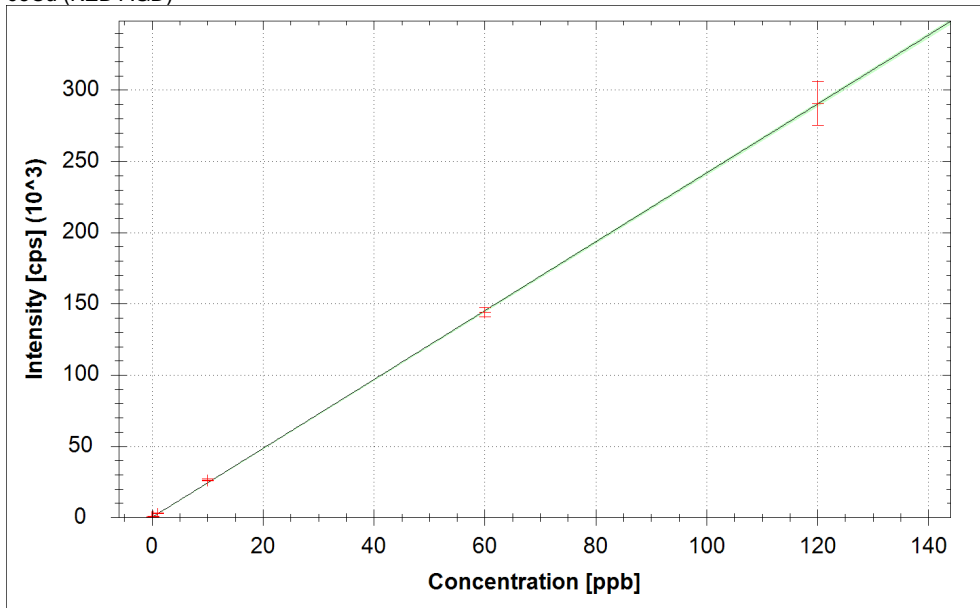
$f(x) = 1593.9686 \cdot x + 211.1020$
 $R^2 = 0.9999$
BEC = 0.132 ppb
LoD = 0.0161 ppb

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM

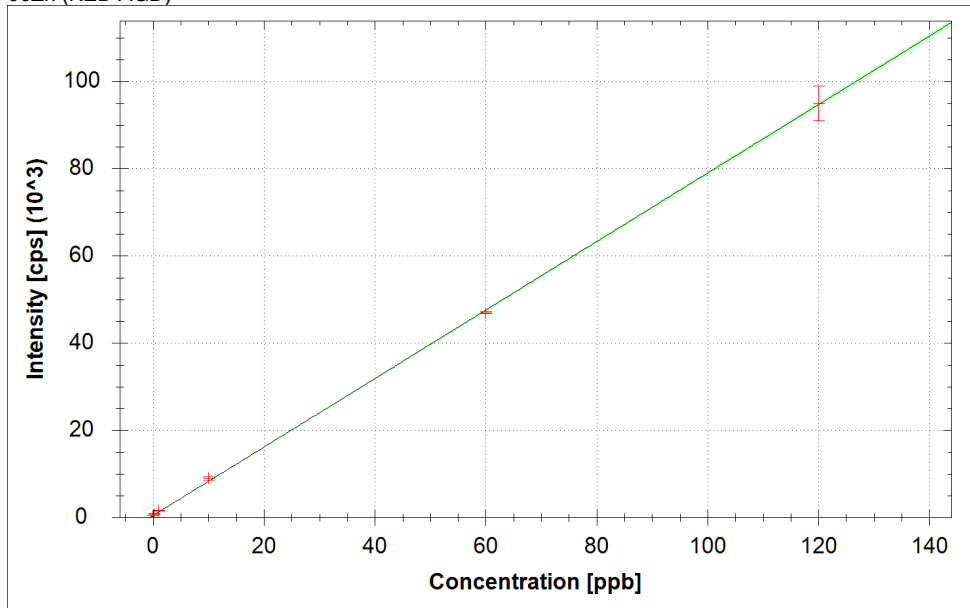


65Cu (KED AGD)



$f(x) = 2416.1917 \cdot x + 100.1986$
 $R^2 = 0.9999$
BEC = 0.041 ppb
LoD = 0.0311 ppb

66Zn (KED AGD)



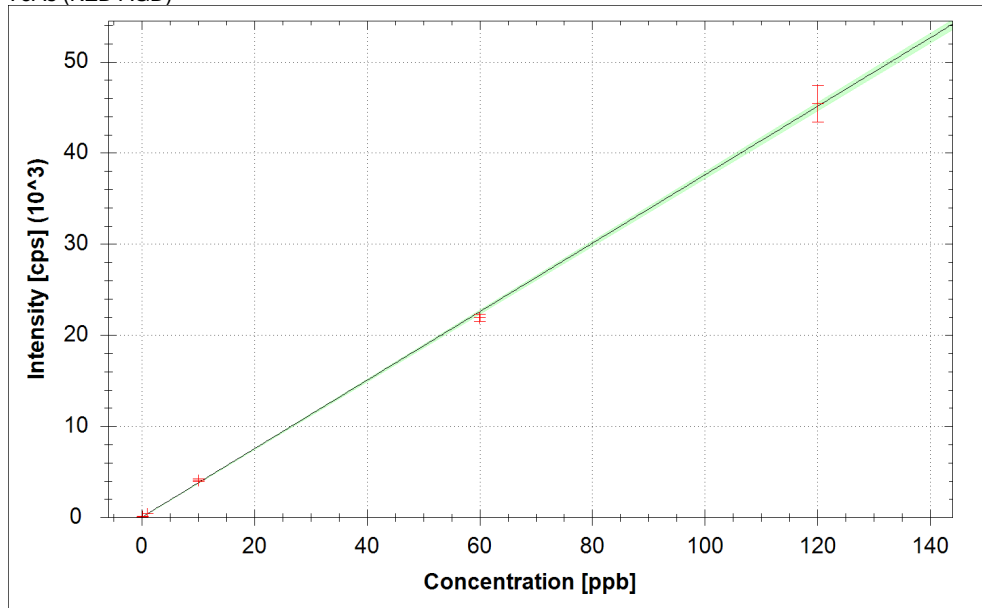
$f(x) = 785.2858 \cdot x + 433.9359$
 $R^2 = 0.9999$
BEC = 0.553 ppb
LoD = 0.0930 ppb

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM

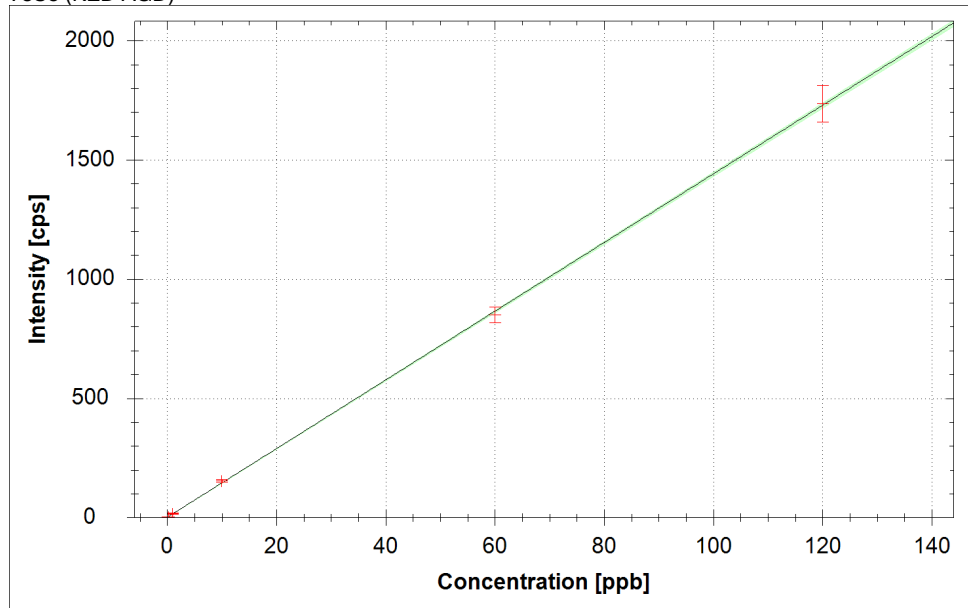


75As (KED AGD)



$f(x) = 375.6199 \cdot x + 30.6201$
 $R^2 = 0.9996$
BEC = 0.082 ppb
LoD = 0.0442 ppb

78Se (KED AGD)



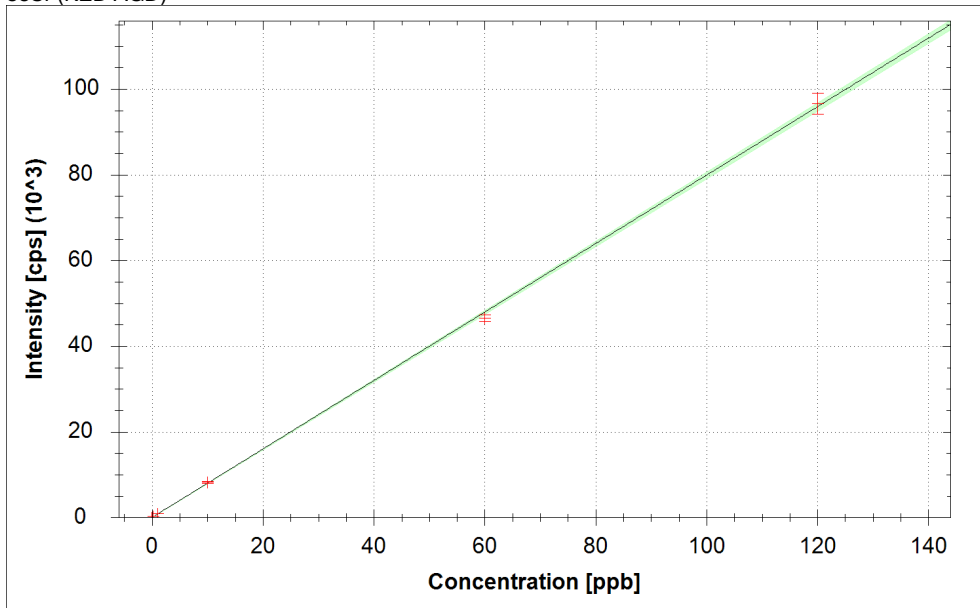
$f(x) = 14.4009 \cdot x + 0.8408$
 $R^2 = 0.9999$
BEC = 0.058 ppb
LoD = 0.0651 ppb

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM

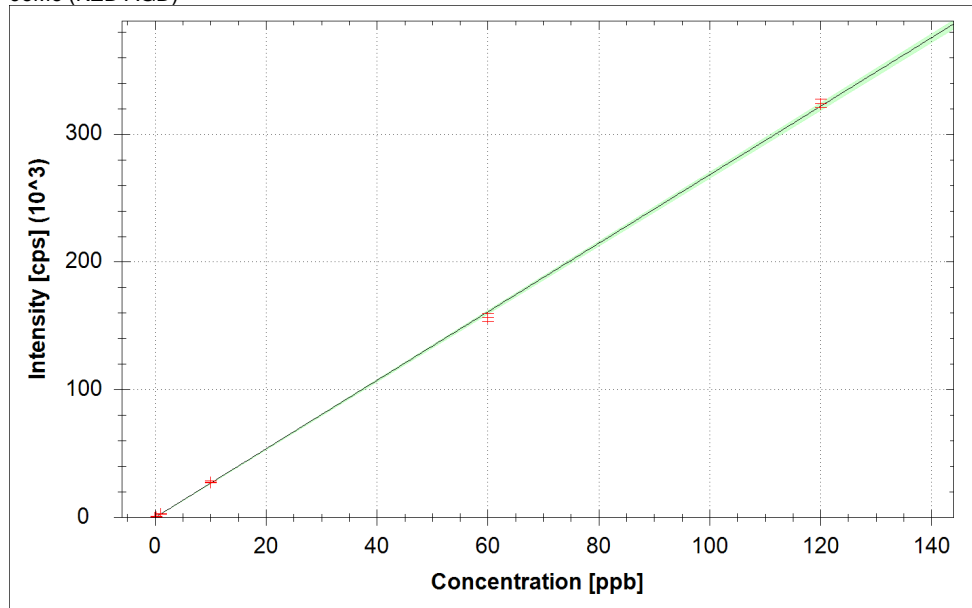


88Sr (KED AGD)



$f(x) = 798.6184 \cdot x + 10.0941$
 $R^2 = 0.9996$
BEC = 0.013 ppb
LoD = 0.0068 ppb

95Mo (KED AGD)



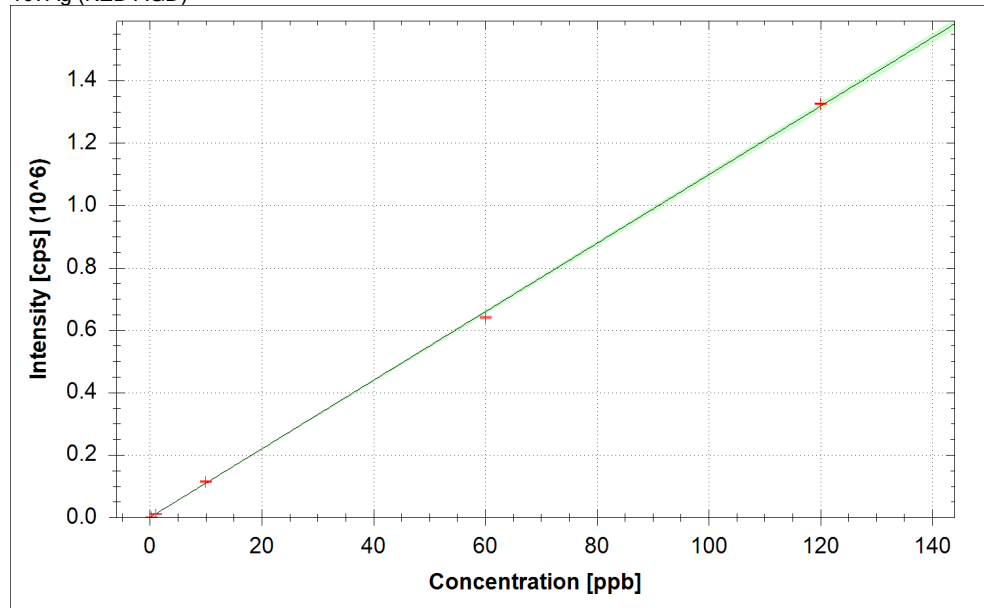
$f(x) = 2680.1329 \cdot x + 2.3421$
 $R^2 = 0.9997$
BEC = 0.001 ppb
LoD = 0.0045 ppb

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM

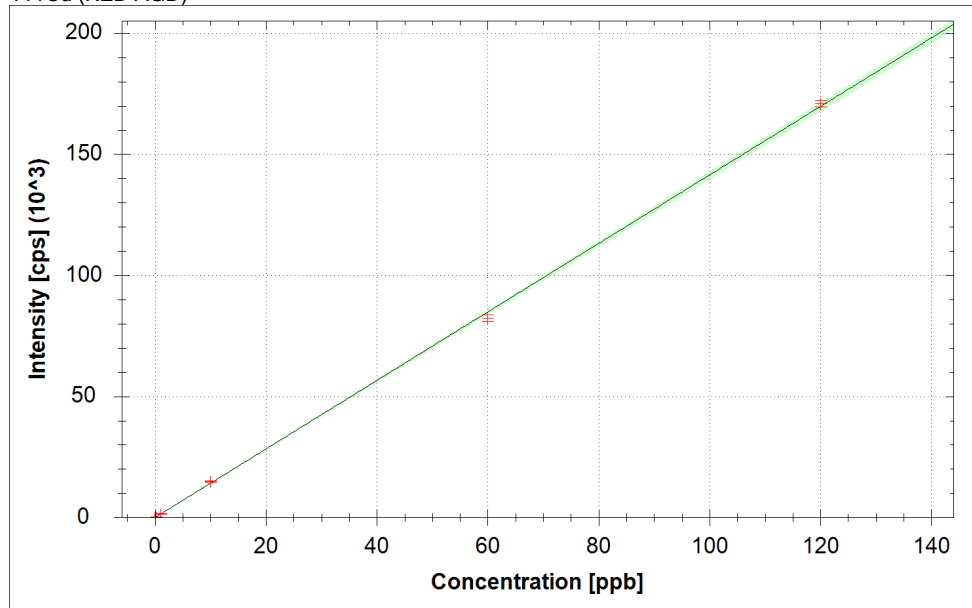


107Ag (KED AGD)



$f(x) = 10977.2548 \cdot x + 20.3929$
 $R^2 = 0.9997$
BEC = 0.002 ppb
LoD = 0.0031 ppb

111Cd (KED AGD)



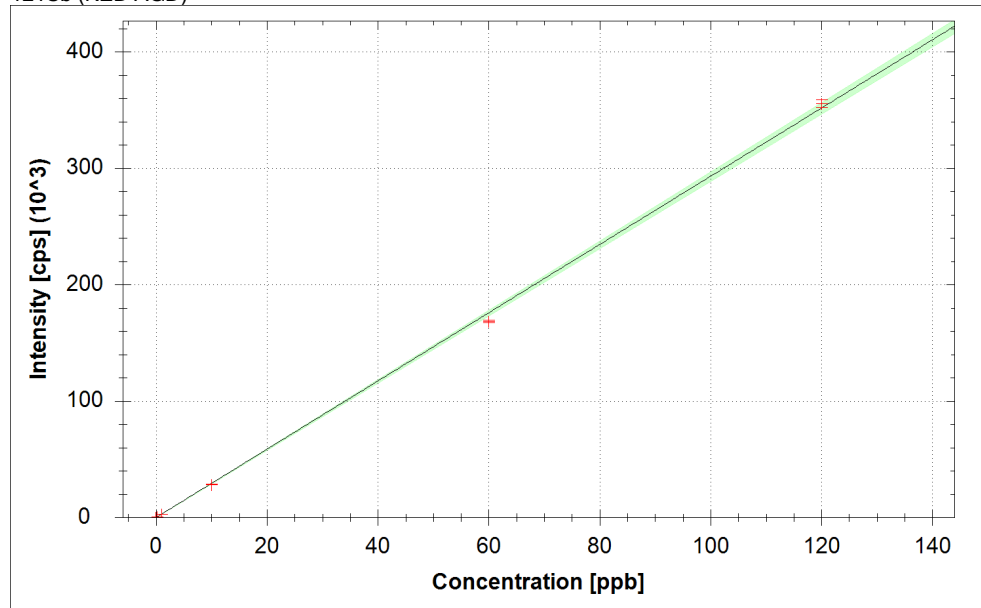
$f(x) = 1414.2394 \cdot x + 0.9033$
 $R^2 = 0.9997$
BEC = 0.001 ppb
LoD = 0.0017 ppb

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM

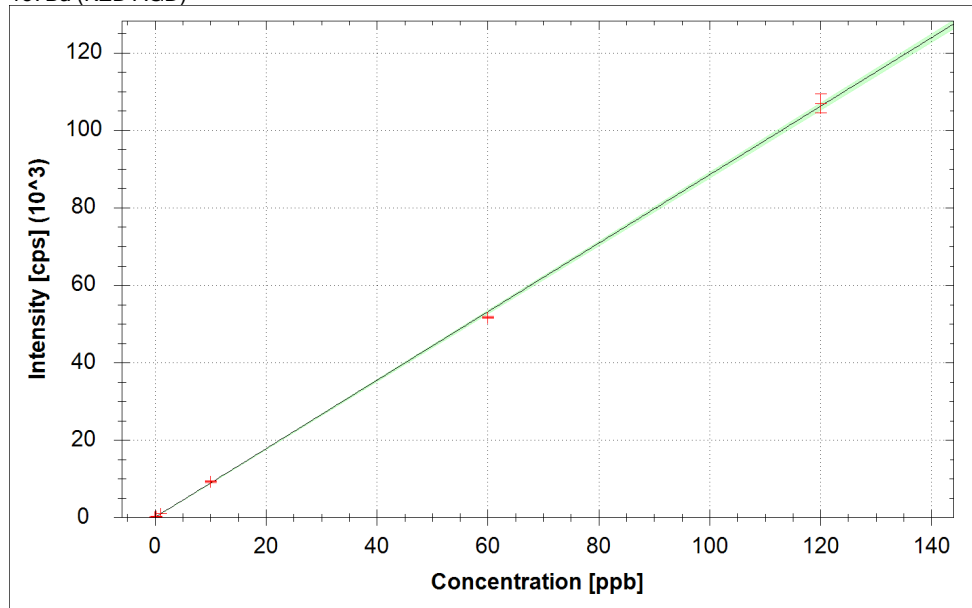


121Sb (KED AGD)



$f(x) = 2929.5611 \cdot x + 5.7798$
 $R^2 = 0.9993$
BEC = 0.002 ppb
LoD = 0.0007 ppb

137Ba (KED AGD)



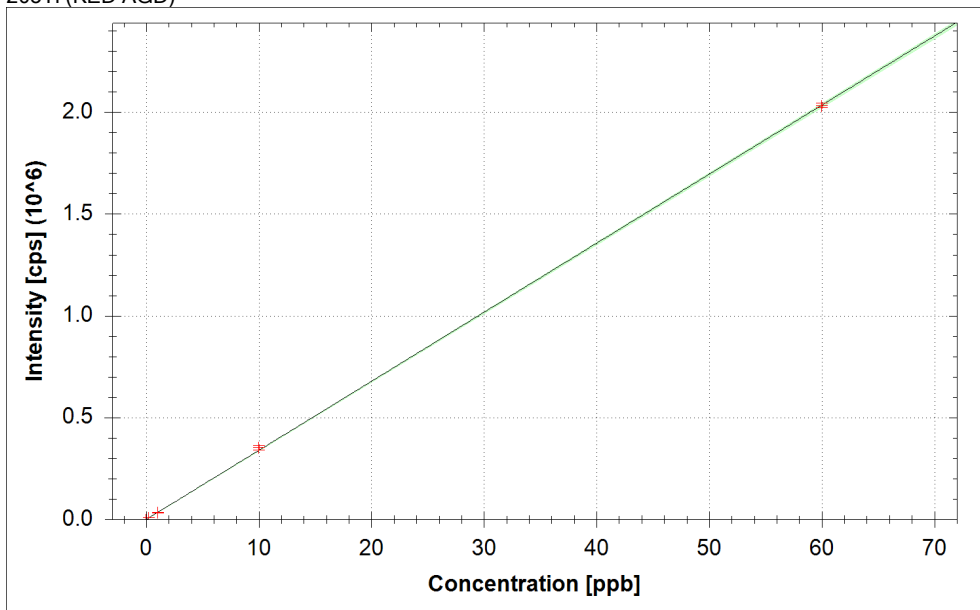
$f(x) = 884.5145 \cdot x + 46.4397$
 $R^2 = 0.9997$
BEC = 0.053 ppb
LoD = 0.0265 ppb

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM

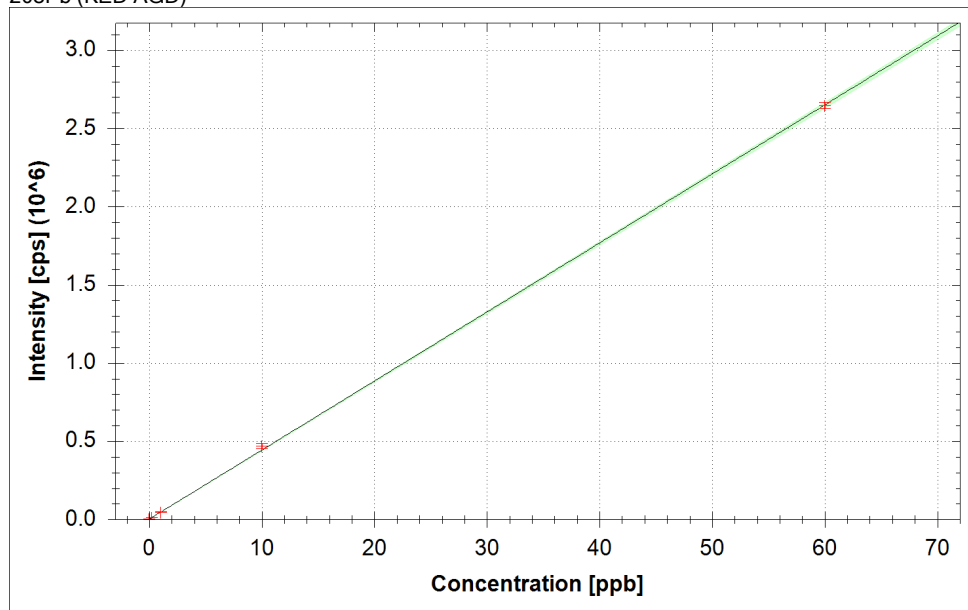


205TI (KED AGD)



$f(x) = 33894.4351 \cdot x + 134.8589$
 $R^2 = 0.9999$
BEC = 0.004 ppb
LoD = 0.0016 ppb

208Pb (KED AGD)



$f(x) = 44131.9694 \cdot x + 2133.8920$
 $R^2 = 0.9999$
BEC = 0.048 ppb
LoD = 0.0068 ppb

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Standards:

Analysis Index: 4
 Analysis Name: 0.2/20 Cal
 Analysis Type: STD
 Analysis Started at: 8/1/2023 8:35:28 AM
 Total Dilution Factor: 50000
 Rack: 0
 Vial: 2

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	98.840 %	3.5 %	
6Li (KED AGD)	106.502 %	8.4 %	
9Be (STD AGD)	0.218 ppb	6.3 %	0.200 ppb
23Na (KED AGD)	14.638 ppb	39.6 %	20.000 ppb
24Mg (KED AGD)	21.845 ppb	16.2 %	20.000 ppb
27Al (KED AGD)	0.102 ppb	387.1 %	0.200 ppb
39K (KED AGD)	16.479 ppb	23.3 %	20.000 ppb
44Ca (KED AGD)	154.065 ppb	8.0 %	20.000 ppb
45Sc (STD AGD)	104.367 %	1.7 %	
51V (KED AGD)	0.193 ppb	30.5 %	0.200 ppb
52Cr (KED AGD)	0.215 ppb	6.4 %	0.200 ppb
55Mn (KED AGD)	0.217 ppb	25.9 %	0.200 ppb
57Fe (KED AGD)	22.250 ppb	8.1 %	20.000 ppb
59Co (KED AGD)	0.200 ppb	1.8 %	0.200 ppb
60Ni (KED AGD)	0.231 ppb	11.4 %	0.200 ppb
65Cu (KED AGD)	0.210 ppb	25.5 %	0.200 ppb
66Zn (KED AGD)	0.409 ppb	18.5 %	0.200 ppb
74Ge (KED AGD)	104.312 %	2.8 %	
75As (KED AGD)	0.222 ppb	3.8 %	0.200 ppb
78Se (KED AGD)	0.160 ppb	6.7 %	0.200 ppb
88Sr (KED AGD)	0.257 ppb	4.7 %	0.200 ppb
95Mo (KED AGD)	0.219 ppb	20.3 %	0.200 ppb
103Rh (KED AGD)	102.331 %	1.7 %	
107Ag (KED AGD)	0.200 ppb	2.6 %	0.200 ppb
111Cd (KED AGD)	0.213 ppb	2.6 %	0.200 ppb
115In (KED AGD)	104.388 %	5.4 %	
121Sb (KED AGD)	0.170 ppb	4.0 %	0.200 ppb
137Ba (KED AGD)	0.190 ppb	14.6 %	0.200 ppb
159Tb (KED AGD)	101.085 %	5.6 %	
175Lu (KED AGD)	101.679 %	6.3 %	
205Tl (KED AGD)	0.210 ppb	0.7 %	0.200 ppb
208Pb (KED AGD)	0.215 ppb	4.9 %	0.200 ppb
209Bi (KED AGD)	99.309 %	6.8 %	

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Standards:

Analysis Index: 5
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 8/1/2023 8:39:56 AM
Total Dilution Factor: 10000
Rack: 0
Vial: 3

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	99.476 %	1.7 %	
6Li (KED AGD)	104.954 %	3.2 %	
9Be (STD AGD)	0.978 ppb	0.7 %	1.000 ppb
23Na (KED AGD)	93.492 ppb	9.5 %	100.000 ppb
24Mg (KED AGD)	98.948 ppb	7.9 %	100.000 ppb
27Al (KED AGD)	0.613 ppb	73.6 %	1.000 ppb
39K (KED AGD)	102.165 ppb	4.0 %	100.000 ppb
44Ca (KED AGD)	208.222 ppb	5.5 %	100.000 ppb
45Sc (STD AGD)	101.229 %	2.0 %	
51V (KED AGD)	1.009 ppb	6.6 %	1.000 ppb
52Cr (KED AGD)	0.997 ppb	1.8 %	1.000 ppb
55Mn (KED AGD)	1.128 ppb	7.9 %	1.000 ppb
57Fe (KED AGD)	101.775 ppb	5.1 %	100.000 ppb
59Co (KED AGD)	1.005 ppb	5.9 %	1.000 ppb
60Ni (KED AGD)	1.017 ppb	3.4 %	1.000 ppb
65Cu (KED AGD)	1.096 ppb	4.6 %	1.000 ppb
66Zn (KED AGD)	1.417 ppb	6.9 %	1.000 ppb
74Ge (KED AGD)	102.624 %	3.5 %	
75As (KED AGD)	1.043 ppb	5.5 %	1.000 ppb
78Se (KED AGD)	0.990 ppb	22.1 %	1.000 ppb
88Sr (KED AGD)	1.017 ppb	0.4 %	1.000 ppb
95Mo (KED AGD)	1.002 ppb	1.5 %	1.000 ppb
103Rh (KED AGD)	100.756 %	5.2 %	
107Ag (KED AGD)	0.968 ppb	3.7 %	1.000 ppb
111Cd (KED AGD)	0.980 ppb	4.2 %	1.000 ppb
115In (KED AGD)	102.289 %	6.5 %	
121Sb (KED AGD)	0.910 ppb	4.3 %	1.000 ppb
137Ba (KED AGD)	0.984 ppb	3.6 %	1.000 ppb
159Tb (KED AGD)	100.494 %	5.4 %	
175Lu (KED AGD)	99.740 %	4.9 %	
205Tl (KED AGD)	0.976 ppb	3.1 %	1.000 ppb
208Pb (KED AGD)	1.000 ppb	1.8 %	1.000 ppb
209Bi (KED AGD)	101.314 %	4.2 %	

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Standards:

Analysis Index: 6
Analysis Name: 10/1000 Cal
Analysis Type: STD
Analysis Started at: 8/1/2023 8:44:25 AM
Total Dilution Factor: 1000
Rack: 0
Vial: 4

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	98.533 %	1.8 %	
6Li (KED AGD)	108.978 %	3.2 %	
9Be (STD AGD)	10.405 ppb	0.3 %	10.000 ppb
23Na (KED AGD)	974.763 ppb	2.7 %	1,000.000 ppb
24Mg (KED AGD)	1,023.255 ppb	2.5 %	1,000.000 ppb
27Al (KED AGD)	9.790 ppb	4.7 %	10.000 ppb
39K (KED AGD)	1,049.254 ppb	0.1 %	1,000.000 ppb
44Ca (KED AGD)	1,080.899 ppb	0.5 %	1,000.000 ppb
45Sc (STD AGD)	101.949 %	0.7 %	
51V (KED AGD)	10.291 ppb	1.1 %	10.000 ppb
52Cr (KED AGD)	10.480 ppb	0.9 %	10.000 ppb
55Mn (KED AGD)	10.799 ppb	1.0 %	10.000 ppb
57Fe (KED AGD)	1,052.065 ppb	1.2 %	1,000.000 ppb
59Co (KED AGD)	10.586 ppb	2.6 %	10.000 ppb
60Ni (KED AGD)	10.726 ppb	4.4 %	10.000 ppb
65Cu (KED AGD)	10.824 ppb	2.8 %	10.000 ppb
66Zn (KED AGD)	10.799 ppb	3.7 %	10.000 ppb
74Ge (KED AGD)	100.779 %	8.7 %	
75As (KED AGD)	10.781 ppb	3.3 %	10.000 ppb
78Se (KED AGD)	10.576 ppb	4.1 %	10.000 ppb
88Sr (KED AGD)	10.253 ppb	2.5 %	10.000 ppb
95Mo (KED AGD)	10.320 ppb	2.8 %	10.000 ppb
103Rh (KED AGD)	101.293 %	3.6 %	
107Ag (KED AGD)	10.378 ppb	2.9 %	10.000 ppb
111Cd (KED AGD)	10.425 ppb	3.0 %	10.000 ppb
115In (KED AGD)	102.280 %	4.4 %	
121Sb (KED AGD)	9.620 ppb	0.4 %	10.000 ppb
137Ba (KED AGD)	10.352 ppb	2.8 %	10.000 ppb
159Tb (KED AGD)	101.625 %	4.7 %	
175Lu (KED AGD)	102.415 %	4.6 %	
205Tl (KED AGD)	10.399 ppb	3.1 %	10.000 ppb
208Pb (KED AGD)	10.568 ppb	3.3 %	10.000 ppb
209Bi (KED AGD)	101.169 %	5.2 %	

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 8/1/2023 8:48:54 AM
Total Dilution Factor: 166.666666
Rack: 0
Vial: 5

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	96.933 %	0.8 %	
6Li (KED AGD)	98.142 %	6.1 %	
9Be (STD AGD)	59.062 ppb	1.3 %	60.000 ppb
23Na (KED AGD)	5,700.813 ppb	2.2 %	6,000.000 ppb
24Mg (KED AGD)	5,992.609 ppb	3.1 %	6,000.000 ppb
27Al (KED AGD)	60.036 ppb	3.7 %	60.000 ppb
39K (KED AGD)	5,882.165 ppb	1.4 %	6,000.000 ppb
44Ca (KED AGD)	5,976.904 ppb	1.5 %	6,000.000 ppb
45Sc (STD AGD)	104.993 %	2.1 %	
51V (KED AGD)	58.388 ppb	0.9 %	60.000 ppb
52Cr (KED AGD)	59.293 ppb	1.9 %	60.000 ppb
55Mn (KED AGD)	58.962 ppb	2.3 %	60.000 ppb
57Fe (KED AGD)	5,832.030 ppb	0.9 %	6,000.000 ppb
59Co (KED AGD)	59.426 ppb	2.7 %	60.000 ppb
60Ni (KED AGD)	59.445 ppb	0.2 %	60.000 ppb
65Cu (KED AGD)	59.571 ppb	2.3 %	60.000 ppb
66Zn (KED AGD)	59.245 ppb	0.6 %	60.000 ppb
74Ge (KED AGD)	102.549 %	3.6 %	
75As (KED AGD)	58.239 ppb	1.9 %	60.000 ppb
78Se (KED AGD)	58.918 ppb	3.8 %	60.000 ppb
88Sr (KED AGD)	58.156 ppb	1.7 %	60.000 ppb
95Mo (KED AGD)	58.352 ppb	1.8 %	60.000 ppb
103Rh (KED AGD)	99.739 %	1.1 %	
107Ag (KED AGD)	58.390 ppb	0.6 %	60.000 ppb
111Cd (KED AGD)	58.249 ppb	1.6 %	60.000 ppb
115In (KED AGD)	101.230 %	4.0 %	
121Sb (KED AGD)	57.454 ppb	0.7 %	60.000 ppb
137Ba (KED AGD)	58.386 ppb	0.5 %	60.000 ppb
159Tb (KED AGD)	100.644 %	2.3 %	
175Lu (KED AGD)	100.871 %	2.9 %	
205Tl (KED AGD)	59.934 ppb	0.6 %	60.000 ppb
208Pb (KED AGD)	59.905 ppb	0.7 %	60.000 ppb
209Bi (KED AGD)	99.085 %	3.9 %	

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Standards:

Analysis Index: 8
 Analysis Name: 120/12000 Cal
 Analysis Type: STD
 Analysis Started at: 8/1/2023 8:53:24 AM
 Total Dilution Factor: 83.3333333
 Rack: 0
 Vial: 6

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	94.564 %	1.6 %	
6Li (KED AGD)	96.904 %	1.5 %	
9Be (STD AGD)	120.435 ppb	1.4 %	120.000 ppb
23Na (KED AGD)	12,151.760 ppb	1.4 %	12,000.000 ppb
24Mg (KED AGD)	12,001.763 ppb	1.9 %	12,000.000 ppb
27Al (KED AGD)	120.003 ppb	3.6 %	120.000 ppb
39K (KED AGD)	12,054.801 ppb	2.1 %	12,000.000 ppb
44Ca (KED AGD)	12,003.681 ppb	3.0 %	12,000.000 ppb
45Sc (STD AGD)	108.672 %	2.0 %	
51V (KED AGD)	120.781 ppb	3.0 %	120.000 ppb
52Cr (KED AGD)	120.314 ppb	3.5 %	120.000 ppb
55Mn (KED AGD)	120.452 ppb	4.2 %	120.000 ppb
57Fe (KED AGD)	12,079.628 ppb	4.5 %	12,000.000 ppb
59Co (KED AGD)	120.238 ppb	3.4 %	120.000 ppb
60Ni (KED AGD)	120.217 ppb	3.2 %	120.000 ppb
65Cu (KED AGD)	120.145 ppb	5.3 %	120.000 ppb
66Zn (KED AGD)	120.307 ppb	4.2 %	120.000 ppb
74Ge (KED AGD)	101.048 %	5.9 %	
75As (KED AGD)	120.815 ppb	4.4 %	120.000 ppb
78Se (KED AGD)	120.493 ppb	4.4 %	120.000 ppb
88Sr (KED AGD)	120.901 ppb	2.5 %	120.000 ppb
95Mo (KED AGD)	120.797 ppb	1.0 %	120.000 ppb
103Rh (KED AGD)	95.875 %	2.2 %	
107Ag (KED AGD)	120.774 ppb	0.2 %	120.000 ppb
111Cd (KED AGD)	120.840 ppb	0.8 %	120.000 ppb
115In (KED AGD)	95.082 %	2.4 %	
121Sb (KED AGD)	121.306 ppb	1.0 %	120.000 ppb
137Ba (KED AGD)	120.778 ppb	2.3 %	120.000 ppb
159Tb (KED AGD)	98.423 %	3.4 %	
175Lu (KED AGD)	97.934 %	4.8 %	
205Tl (KED AGD)	134.712 ppb	0.4 %	120.000 ppb
208Pb (KED AGD)	130.986 ppb	1.6 %	120.000 ppb
209Bi (KED AGD)	94.501 %	4.4 %	

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 1 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: Rinse Rack 0
 Analysis started at: 8/1/2023 8:22:03 AM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.056 %	116.409 %	0.007 ppb	10.294 ppb	1.209 ppb	1.100 ppb	32.717 ppb	17.082 ppb	107.312 %
Concentration per Run 1	107.773 %	135.604 %	0.006 ppb	1.702 ppb	1.436 ppb	0.857 ppb	30.259 ppb	12.845 ppb	110.942 %
Concentration per Run 2	102.647 %	107.740 %	0.016 ppb	12.006 ppb	0.923 ppb	1.207 ppb	40.035 ppb	15.514 ppb	105.158 %
Concentration per Run 3	104.748 %	105.882 %	-0.002 ppb	17.174 ppb	1.267 ppb	1.236 ppb	27.858 ppb	22.887 ppb	105.835 %
Concentration RSD	2.5 %	14.3 %	142.2 %	76.5 %	21.6 %	19.2 %	19.7 %	30.4 %	2.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.028 ppb	0.024 ppb	0.242 ppb	17.235 ppb	-0.002 ppb	1.034 ppb	0.551 ppb	3.681 ppb	114.085 %
Concentration per Run 1	0.048 ppb	0.014 ppb	0.278 ppb	17.485 ppb	0.011 ppb	0.965 ppb	0.600 ppb	3.550 ppb	112.191 %
Concentration per Run 2	-0.009 ppb	0.033 ppb	0.247 ppb	17.405 ppb	-0.014 ppb	1.002 ppb	0.519 ppb	3.138 ppb	116.892 %
Concentration per Run 3	0.046 ppb	0.026 ppb	0.199 ppb	16.815 ppb	-0.004 ppb	1.134 ppb	0.534 ppb	4.354 ppb	113.172 %
Concentration RSD	113.3 %	40.4 %	16.4 %	2.1 %	572.3 %	8.6 %	7.8 %	16.8 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.004 ppb	-0.043 ppb	0.016 ppb	0.040 ppb	118.245 %	0.005 ppb	0.000 ppb	120.243 %	0.006 ppb
Concentration per Run 1	0.025 ppb	-0.077 ppb	0.017 ppb	0.033 ppb	121.693 %	0.005 ppb	0.000 ppb	122.078 %	0.006 ppb
Concentration per Run 2	-0.008 ppb	-0.032 ppb	0.014 ppb	0.035 ppb	117.950 %	0.005 ppb	0.001 ppb	121.104 %	0.004 ppb
Concentration per Run 3	-0.005 ppb	-0.021 ppb	0.018 ppb	0.053 ppb	115.092 %	0.004 ppb	0.000 ppb	117.548 %	0.009 ppb
Concentration RSD	440.5 %	68.7 %	12.4 %	28.2 %	2.8 %	18.3 %	109.5 %	2.0 %	35.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.090 ppb	120.749 %	120.392 %	0.002 ppb	0.058 ppb	120.263 %
Concentration per Run 1	0.089 ppb	123.217 %	123.271 %	0.002 ppb	0.060 ppb	121.298 %
Concentration per Run 2	0.103 ppb	121.241 %	120.619 %	0.002 ppb	0.054 ppb	122.446 %
Concentration per Run 3	0.079 ppb	117.788 %	117.285 %	0.002 ppb	0.059 ppb	117.046 %
Concentration RSD	13.5 %	2.3 %	2.5 %	15.7 %	6.1 %	2.4 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 2 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CAL LOT #M22-1194 Rack 0
 Analysis started at: 8/1/2023 8:26:29 AM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.782 %	110.217 %	0.013 ppb	6.430 ppb	1.025 ppb	0.789 ppb	25.366 ppb	15.476 ppb	104.780 %
Concentration per Run 1	101.156 %	98.452 %	0.019 ppb	14.716 ppb	1.218 ppb	1.092 ppb	29.285 ppb	15.089 ppb	107.499 %
Concentration per Run 2	98.263 %	121.672 %	0.015 ppb	-2.486 ppb	1.017 ppb	1.291 ppb	21.149 ppb	17.914 ppb	102.563 %
Concentration per Run 3	99.928 %	110.526 %	0.004 ppb	7.059 ppb	0.840 ppb	-0.016 ppb	25.663 ppb	13.424 ppb	104.278 %
Concentration RSD	1.5 %	10.5 %	62.3 %	134.0 %	18.5 %	89.3 %	16.1 %	14.7 %	2.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.022 ppb	0.224 ppb	16.668 ppb	-0.009 ppb	0.891 ppb	0.433 ppb	2.733 ppb	103.212 %
Concentration per Run 1	-0.029 ppb	0.029 ppb	0.236 ppb	18.342 ppb	-0.017 ppb	0.979 ppb	0.426 ppb	2.771 ppb	101.934 %
Concentration per Run 2	0.026 ppb	0.013 ppb	0.235 ppb	17.152 ppb	-0.005 ppb	0.898 ppb	0.430 ppb	2.678 ppb	102.900 %
Concentration per Run 3	0.003 ppb	0.025 ppb	0.202 ppb	14.510 ppb	-0.006 ppb	0.795 ppb	0.442 ppb	2.749 ppb	104.803 %
Concentration RSD	17,368.8 %	37.8 %	8.6 %	11.8 %	71.6 %	10.4 %	1.9 %	1.8 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.008 ppb	-0.057 ppb	0.015 ppb	0.021 ppb	105.115 %	0.003 ppb	0.000 ppb	105.405 %	0.006 ppb
Concentration per Run 1	0.010 ppb	-0.052 ppb	0.014 ppb	0.021 ppb	101.689 %	0.003 ppb	0.000 ppb	103.772 %	0.007 ppb
Concentration per Run 2	0.007 ppb	-0.048 ppb	0.015 ppb	0.015 ppb	107.826 %	0.003 ppb	0.000 ppb	106.382 %	0.007 ppb
Concentration per Run 3	0.007 ppb	-0.070 ppb	0.015 ppb	0.027 ppb	105.830 %	0.004 ppb	0.000 ppb	106.062 %	0.005 ppb
Concentration RSD	21.0 %	20.8 %	4.1 %	28.0 %	3.0 %	23.7 %	6.6 %	1.4 %	12.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.059 ppb	104.376 %	104.336 %	0.000 ppb	0.052 ppb	104.353 %
Concentration per Run 1	0.054 ppb	102.279 %	100.974 %	0.000 ppb	0.051 ppb	100.571 %
Concentration per Run 2	0.068 ppb	106.005 %	106.849 %	0.000 ppb	0.052 ppb	106.591 %
Concentration per Run 3	0.055 ppb	104.843 %	105.185 %	0.001 ppb	0.052 ppb	105.896 %
Concentration RSD	13.8 %	1.8 %	2.9 %	160.1 %	1.6 %	3.2 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 3 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: Blank SMV ICPMSQ2 Rack 4
 Analysis started at: 8/1/2023 8:30:56 AM Vial 49

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.1 %	0.1 %	0.0 %	0.4 %	0.1 %	0.0 %	0.3 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.1 %	0.2 %	0.2 %	0.2 %	0.0 %	0.0 %	0.2 %	0.1 %	0.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration RSD	0.2 %	0.4 %	0.2 %	1.7 %	0.1 %	0.6 %	0.9 %	0.1 %	0.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.2 %	0.1 %	0.1 %	0.1 %	0.0 %	0.1 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 4 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: 0.2/20 Cal Rack: 0
 Analysis started at: 8/1/2023 8:35:28 AM Vial: 2

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.840 %	106.502 %	0.218 ppb	14.638 ppb	21.845 ppb	0.102 ppb	16.479 ppb	154.065 ppb	104.367 %
Concentration per Run 1	102.628 %	98.452 %	0.215 ppb	17.600 ppb	19.628 ppb	0.228 ppb	13.797 ppb	157.540 ppb	106.201 %
Concentration per Run 2	95.735 %	116.099 %	0.233 ppb	7.956 ppb	19.990 ppb	-0.341 ppb	14.760 ppb	164.297 ppb	102.674 %
Concentration per Run 3	98.158 %	104.954 %	0.206 ppb	18.357 ppb	25.918 ppb	0.419 ppb	20.881 ppb	140.357 ppb	104.227 %
Concentration RSD	3.5 %	8.4 %	6.3 %	39.6 %	16.2 %	387.1 %	23.3 %	8.0 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.193 ppb	0.215 ppb	0.217 ppb	22.250 ppb	0.200 ppb	0.231 ppb	0.210 ppb	0.409 ppb	104.312 %
Concentration per Run 1	0.140 ppb	0.212 ppb	0.278 ppb	20.177 ppb	0.204 ppb	0.241 ppb	0.215 ppb	0.397 ppb	101.550 %
Concentration per Run 2	0.183 ppb	0.204 ppb	0.166 ppb	23.440 ppb	0.196 ppb	0.201 ppb	0.261 ppb	0.490 ppb	104.085 %
Concentration per Run 3	0.256 ppb	0.230 ppb	0.207 ppb	23.132 ppb	0.201 ppb	0.251 ppb	0.155 ppb	0.341 ppb	107.302 %
Concentration RSD	30.5 %	6.4 %	25.9 %	8.1 %	1.8 %	11.4 %	25.5 %	18.5 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.222 ppb	0.160 ppb	0.257 ppb	0.219 ppb	102.331 %	0.200 ppb	0.213 ppb	104.388 %	0.170 ppb
Concentration per Run 1	0.227 ppb	0.168 ppb	0.265 ppb	0.249 ppb	100.403 %	0.202 ppb	0.212 ppb	97.881 %	0.170 ppb
Concentration per Run 2	0.228 ppb	0.148 ppb	0.263 ppb	0.240 ppb	102.894 %	0.203 ppb	0.208 ppb	107.036 %	0.177 ppb
Concentration per Run 3	0.212 ppb	0.165 ppb	0.243 ppb	0.168 ppb	103.697 %	0.194 ppb	0.219 ppb	108.247 %	0.163 ppb
Concentration RSD	3.8 %	6.7 %	4.7 %	20.3 %	1.7 %	2.6 %	2.6 %	5.4 %	4.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.190 ppb	101.085 %	101.679 %	0.210 ppb	0.215 ppb	99.309 %
Concentration per Run 1	0.170 ppb	94.963 %	94.376 %	0.208 ppb	0.223 ppb	91.560 %
Concentration per Run 2	0.178 ppb	102.273 %	104.618 %	0.211 ppb	0.203 ppb	103.479 %
Concentration per Run 3	0.222 ppb	106.020 %	106.044 %	0.210 ppb	0.218 ppb	102.889 %
Concentration RSD	14.6 %	5.6 %	6.3 %	0.7 %	4.9 %	6.8 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 5 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: 1/100 Cal Rack 0
 Analysis started at: 8/1/2023 8:39:56 AM Vial 3

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.476 %	104.954 %	0.978 ppb	93.492 ppb	98.948 ppb	0.613 ppb	102.165 ppb	208.222 ppb	101.229 %
Concentration per Run 1	101.355 %	108.669 %	0.986 ppb	83.251 ppb	90.012 ppb	0.388 ppb	100.132 ppb	207.367 ppb	103.572 %
Concentration per Run 2	98.160 %	102.167 %	0.975 ppb	98.816 ppb	102.534 ppb	1.133 ppb	106.914 ppb	220.162 ppb	100.007 %
Concentration per Run 3	98.911 %	104.025 %	0.973 ppb	98.408 ppb	104.298 ppb	0.318 ppb	99.448 ppb	197.137 ppb	100.109 %
Concentration RSD	1.7 %	3.2 %	0.7 %	9.5 %	7.9 %	73.6 %	4.0 %	5.5 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.009 ppb	0.997 ppb	1.128 ppb	101.775 ppb	1.005 ppb	1.017 ppb	1.096 ppb	1.417 ppb	102.624 %
Concentration per Run 1	1.085 ppb	1.007 ppb	1.117 ppb	107.724 ppb	1.073 ppb	1.056 ppb	1.130 ppb	1.458 ppb	98.568 %
Concentration per Run 2	0.984 ppb	0.976 ppb	1.045 ppb	98.123 ppb	0.981 ppb	1.004 ppb	1.122 ppb	1.306 ppb	105.552 %
Concentration per Run 3	0.959 ppb	1.007 ppb	1.223 ppb	99.478 ppb	0.962 ppb	0.992 ppb	1.038 ppb	1.488 ppb	103.751 %
Concentration RSD	6.6 %	1.8 %	7.9 %	5.1 %	5.9 %	3.4 %	4.6 %	6.9 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.043 ppb	0.990 ppb	1.017 ppb	1.002 ppb	100.756 %	0.968 ppb	0.980 ppb	102.289 %	0.910 ppb
Concentration per Run 1	1.052 ppb	0.964 ppb	1.014 ppb	1.008 ppb	94.884 %	1.009 ppb	1.022 ppb	94.663 %	0.955 ppb
Concentration per Run 2	1.095 ppb	0.786 ppb	1.021 ppb	1.013 ppb	102.501 %	0.940 ppb	0.977 ppb	106.539 %	0.884 ppb
Concentration per Run 3	0.981 ppb	1.220 ppb	1.016 ppb	0.984 ppb	104.882 %	0.956 ppb	0.940 ppb	105.665 %	0.891 ppb
Concentration RSD	5.5 %	22.1 %	0.4 %	1.5 %	5.2 %	3.7 %	4.2 %	6.5 %	4.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.984 ppb	100.494 %	99.740 %	0.976 ppb	1.000 ppb	101.314 %
Concentration per Run 1	0.963 ppb	94.530 %	94.177 %	1.007 ppb	1.020 ppb	96.411 %
Concentration per Run 2	0.963 ppb	101.972 %	102.024 %	0.973 ppb	0.995 ppb	103.246 %
Concentration per Run 3	1.025 ppb	104.980 %	103.020 %	0.946 ppb	0.985 ppb	104.285 %
Concentration RSD	3.6 %	5.4 %	4.9 %	3.1 %	1.8 %	4.2 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 6 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: 10/1000 Cal Rack: 0
 Analysis started at: 8/1/2023 8:44:25 AM Vial: 4

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.533 %	108.978 %	10.405 ppb	974.763 ppb	1,023.255 ppb	9.790 ppb	1,049.254 ppb	1,080.899 ppb	101.949 %
Concentration per Run 1	100.576 %	111.455 %	10.416 ppb	956.343 ppb	1,013.724 ppb	9.327 ppb	1,048.755 ppb	1,085.774 ppb	102.759 %
Concentration per Run 2	97.623 %	104.954 %	10.436 ppb	1,005.037 ppb	1,052.557 ppb	10.239 ppb	1,048.569 ppb	1,075.791 ppb	101.448 %
Concentration per Run 3	97.399 %	110.526 %	10.365 ppb	962.909 ppb	1,003.483 ppb	9.804 ppb	1,050.437 ppb	1,081.133 ppb	101.640 %
Concentration RSD	1.8 %	3.2 %	0.3 %	2.7 %	2.5 %	4.7 %	0.1 %	0.5 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	10.291 ppb	10.480 ppb	10.799 ppb	1,052.065 ppb	10.586 ppb	10.726 ppb	10.824 ppb	10.799 ppb	100.779 %
Concentration per Run 1	10.419 ppb	10.572 ppb	10.738 ppb	1,064.495 ppb	10.909 ppb	11.264 ppb	11.159 ppb	11.203 ppb	90.741 %
Concentration per Run 2	10.233 ppb	10.492 ppb	10.736 ppb	1,039.816 ppb	10.418 ppb	10.372 ppb	10.588 ppb	10.406 ppb	106.458 %
Concentration per Run 3	10.221 ppb	10.377 ppb	10.921 ppb	1,051.883 ppb	10.430 ppb	10.543 ppb	10.725 ppb	10.788 ppb	105.139 %
Concentration RSD	1.1 %	0.9 %	1.0 %	1.2 %	2.6 %	4.4 %	2.8 %	3.7 %	8.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.781 ppb	10.576 ppb	10.253 ppb	10.320 ppb	101.293 %	10.378 ppb	10.425 ppb	102.280 %	9.620 ppb
Concentration per Run 1	11.186 ppb	11.070 ppb	10.554 ppb	10.508 ppb	97.174 %	10.717 ppb	10.734 ppb	97.524 %	9.651 ppb
Concentration per Run 2	10.584 ppb	10.284 ppb	10.099 ppb	9.993 ppb	102.827 %	10.133 ppb	10.425 ppb	102.927 %	9.579 ppb
Concentration per Run 3	10.572 ppb	10.374 ppb	10.106 ppb	10.460 ppb	103.878 %	10.285 ppb	10.116 ppb	106.389 %	9.630 ppb
Concentration RSD	3.3 %	4.1 %	2.5 %	2.8 %	3.6 %	2.9 %	3.0 %	4.4 %	0.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	10.352 ppb	101.625 %	102.415 %	10.399 ppb	10.568 ppb	101.169 %
Concentration per Run 1	10.577 ppb	96.193 %	97.007 %	10.765 ppb	10.975 ppb	95.060 %
Concentration per Run 2	10.460 ppb	103.500 %	104.662 %	10.174 ppb	10.360 ppb	104.606 %
Concentration per Run 3	10.019 ppb	105.183 %	105.575 %	10.257 ppb	10.369 ppb	103.840 %
Concentration RSD	2.8 %	4.7 %	4.6 %	3.1 %	3.3 %	5.2 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 7 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: 60/6000 Cal Rack: 0
 Analysis started at: 8/1/2023 8:48:54 AM Vial: 5

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.933 %	98.142 %	59.062 ppb	5,700.813 ppb	5,992.609 ppb	60.036 ppb	5,882.165 ppb	5,976.904 ppb	104.993 %
Concentration per Run 1	97.702 %	93.808 %	59.772 ppb	5,825.638 ppb	6,165.212 ppb	62.529 ppb	5,966.098 ppb	6,077.714 ppb	107.563 %
Concentration per Run 2	96.097 %	95.666 %	59.153 ppb	5,703.051 ppb	6,011.739 ppb	58.385 ppb	5,801.260 ppb	5,924.408 ppb	103.993 %
Concentration per Run 3	97.000 %	104.954 %	58.262 ppb	5,573.751 ppb	5,800.875 ppb	59.195 ppb	5,879.136 ppb	5,928.591 ppb	103.422 %
Concentration RSD	0.8 %	6.1 %	1.3 %	2.2 %	3.1 %	3.7 %	1.4 %	1.5 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.388 ppb	59.293 ppb	58.962 ppb	5,832.030 ppb	59.426 ppb	59.445 ppb	59.571 ppb	59.245 ppb	102.549 %
Concentration per Run 1	58.324 ppb	60.048 ppb	60.487 ppb	5,813.225 ppb	58.948 ppb	59.435 ppb	58.317 ppb	58.853 ppb	105.384 %
Concentration per Run 2	58.953 ppb	59.832 ppb	58.563 ppb	5,888.253 ppb	61.208 ppb	59.568 ppb	61.036 ppb	59.509 ppb	98.432 %
Concentration per Run 3	57.888 ppb	57.999 ppb	57.836 ppb	5,794.611 ppb	58.121 ppb	59.333 ppb	59.359 ppb	59.372 ppb	103.830 %
Concentration RSD	0.9 %	1.9 %	2.3 %	0.9 %	2.7 %	0.2 %	2.3 %	0.6 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.239 ppb	58.918 ppb	58.156 ppb	58.352 ppb	99.739 %	58.390 ppb	58.249 ppb	101.230 %	57.454 ppb
Concentration per Run 1	56.977 ppb	56.407 ppb	57.289 ppb	57.449 ppb	98.745 %	58.806 ppb	59.051 ppb	96.643 %	57.921 ppb
Concentration per Run 2	59.068 ppb	60.635 ppb	59.252 ppb	59.536 ppb	99.571 %	58.102 ppb	57.204 ppb	104.470 %	57.112 ppb
Concentration per Run 3	58.671 ppb	59.712 ppb	57.927 ppb	58.069 ppb	100.902 %	58.262 ppb	58.491 ppb	102.576 %	57.329 ppb
Concentration RSD	1.9 %	3.8 %	1.7 %	1.8 %	1.1 %	0.6 %	1.6 %	4.0 %	0.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.386 ppb	100.644 %	100.871 %	59.934 ppb	59.905 ppb	99.085 %
Concentration per Run 1	58.653 ppb	98.144 %	97.462 %	59.777 ppb	60.362 ppb	94.647 %
Concentration per Run 2	58.113 ppb	102.638 %	102.539 %	60.334 ppb	59.872 ppb	101.109 %
Concentration per Run 3	58.392 ppb	101.149 %	102.611 %	59.691 ppb	59.482 ppb	101.500 %
Concentration RSD	0.5 %	2.3 %	2.9 %	0.6 %	0.7 %	3.9 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 8 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: 120/12000 Cal Rack: 0
 Analysis started at: 8/1/2023 8:53:24 AM Vial: 6

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.564 %	96.904 %	120.435 ppb	12,151.760 ppb	12,001.763 ppb	120.003 ppb	12,054.801 ppb	12,003.681 ppb	108.672 %
Concentration per Run 1	96.317 %	95.666 %	122.231 ppb	12,327.237 ppb	12,189.571 ppb	118.858 ppb	12,349.688 ppb	12,396.212 ppb	111.159 %
Concentration per Run 2	93.773 %	96.594 %	118.798 ppb	11,987.781 ppb	11,747.423 ppb	116.340 ppb	11,868.325 ppb	11,933.969 ppb	107.643 %
Concentration per Run 3	93.604 %	98.452 %	120.277 ppb	12,140.261 ppb	12,068.297 ppb	124.809 ppb	11,946.390 ppb	11,680.861 ppb	107.214 %
Concentration RSD	1.6 %	1.5 %	1.4 %	1.4 %	1.9 %	3.6 %	2.1 %	3.0 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	120.781 ppb	120.314 ppb	120.452 ppb	12,079.628 ppb	120.238 ppb	120.217 ppb	120.145 ppb	120.307 ppb	101.048 %
Concentration per Run 1	124.950 ppb	124.799 ppb	126.174 ppb	12,700.015 ppb	124.821 ppb	124.374 ppb	127.150 ppb	126.184 ppb	94.705 %
Concentration per Run 2	119.346 ppb	119.647 ppb	118.566 ppb	11,656.915 ppb	118.846 ppb	119.574 ppb	118.522 ppb	117.365 ppb	101.975 %
Concentration per Run 3	118.048 ppb	116.494 ppb	116.615 ppb	11,881.953 ppb	117.048 ppb	116.702 ppb	114.764 ppb	117.373 ppb	106.464 %
Concentration RSD	3.0 %	3.5 %	4.2 %	4.5 %	3.4 %	3.2 %	5.3 %	4.2 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	120.815 ppb	120.493 ppb	120.901 ppb	120.797 ppb	95.875 %	120.774 ppb	120.840 ppb	95.082 %	121.306 ppb
Concentration per Run 1	126.396 ppb	126.646 ppb	123.979 ppb	121.766 ppb	94.806 %	120.975 ppb	120.585 ppb	95.871 %	120.204 ppb
Concentration per Run 2	120.351 ppb	117.752 ppb	120.814 ppb	119.398 ppb	94.525 %	120.735 ppb	120.015 ppb	92.463 %	121.144 ppb
Concentration per Run 3	115.699 ppb	117.081 ppb	117.909 ppb	121.228 ppb	98.294 %	120.610 ppb	121.922 ppb	96.914 %	122.569 ppb
Concentration RSD	4.4 %	4.4 %	2.5 %	1.0 %	2.2 %	0.2 %	0.8 %	2.4 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	120.778 ppb	98.423 %	97.934 %	135.242 ppb	131.372 ppb	94.501 %
Concentration per Run 1	120.298 ppb	97.033 %	94.678 %	135.242 ppb	131.372 ppb	92.456 %
Concentration per Run 2	118.277 ppb	95.945 %	95.858 %	134.719 ppb	132.805 ppb	91.764 %
Concentration per Run 3	123.758 ppb	102.289 %	103.267 %	134.176 ppb	128.782 ppb	99.281 %
Concentration RSD	2.3 %	3.4 %	4.8 %			4.4 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 9 User name: ALPHALAB\la2-icpmsq2 Comment: Sr Interference Check
 Analysis label: Sr 200ppb Rack: 4
 Analysis started at: 8/1/2023 8:57:54 AM Vial: 55

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.468 %	106.502 %	0.027 ppb	-2.497 ppb	2.471 ppb	0.784 ppb	3.225 ppb	-0.156 ppb	100.998 %
Concentration per Run 1	102.738 %	98.452 %	0.028 ppb	0.604 ppb	1.853 ppb	0.901 ppb	8.214 ppb	-73.843 ppb	103.840 %
Concentration per Run 2	97.702 %	111.455 %	0.025 ppb	-3.562 ppb	2.628 ppb	0.756 ppb	0.391 ppb	34.711 ppb	100.168 %
Concentration per Run 3	97.963 %	109.598 %	0.028 ppb	-4.534 ppb	2.931 ppb	0.696 ppb	1.069 ppb	38.663 ppb	98.986 %
Concentration RSD	2.9 %	6.6 %	6.8 %	109.3 %	22.5 %	13.4 %	134.4 %	40,810.1 %	2.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.070 ppb	-0.002 ppb	0.045 ppb	6.120 ppb	0.003 ppb	0.071 ppb	0.045 ppb	0.745 ppb	98.588 %
Concentration per Run 1	-0.059 ppb	0.013 ppb	0.046 ppb	8.196 ppb	0.011 ppb	0.086 ppb	0.067 ppb	0.913 ppb	90.446 %
Concentration per Run 2	-0.076 ppb	-0.021 ppb	0.063 ppb	5.021 ppb	-0.012 ppb	0.079 ppb	0.031 ppb	0.655 ppb	105.886 %
Concentration per Run 3	-0.074 ppb	0.004 ppb	0.026 ppb	5.142 ppb	0.009 ppb	0.049 ppb	0.038 ppb	0.666 ppb	99.431 %
Concentration RSD	13.5 %	1,114.4 %	41.5 %	29.4 %	486.5 %	27.5 %	42.2 %	19.6 %	7.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.023 ppb	0.013 ppb	204.128 ppb	0.274 ppb	101.099 %	0.016 ppb	0.003 ppb	103.246 %	0.041 ppb
Concentration per Run 1	0.031 ppb	-0.001 ppb	220.473 ppb	0.298 ppb	94.149 %	0.019 ppb	0.002 ppb	97.138 %	0.040 ppb
Concentration per Run 2	0.015 ppb	0.014 ppb	190.119 ppb	0.266 ppb	106.183 %	0.013 ppb	0.005 ppb	108.551 %	0.041 ppb
Concentration per Run 3	0.023 ppb	0.026 ppb	201.791 ppb	0.258 ppb	102.963 %	0.017 ppb	0.003 ppb	104.049 %	0.041 ppb
Concentration RSD	35.3 %	100.6 %	7.5 %	7.8 %	6.2 %	18.5 %	35.8 %	5.6 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.060 ppb	101.534 %	100.800 %	0.186 ppb	0.025 ppb	101.276 %
Concentration per Run 1	0.076 ppb	95.990 %	93.996 %	0.182 ppb	0.026 ppb	95.946 %
Concentration per Run 2	0.053 ppb	106.669 %	106.482 %	0.205 ppb	0.026 ppb	105.194 %
Concentration per Run 3	0.050 ppb	101.942 %	101.922 %	0.173 ppb	0.021 ppb	102.688 %
Concentration RSD	24.3 %	5.3 %	6.3 %	8.8 %	11.1 %	4.7 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 10 User name: ALPHALAB\la2-icpmsq2 Comment: ICV
 Analysis label: ICV Rack: 0
 Analysis started at: 8/1/2023 9:02:27 AM Vial: 7

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.624 %	100.000 %	49.562 ppb	4,743.000 ppb	5,035.714 ppb	48.724 ppb	4,962.251 ppb	5,075.698 ppb	104.286 %
Concentration per Run 1	101.506 %	117.028 %	49.046 ppb	4,070.381 ppb	4,352.004 ppb	40.794 ppb	4,411.030 ppb	4,636.413 ppb	105.746 %
Concentration per Run 2	96.794 %	86.378 %	49.436 ppb	5,359.845 ppb	5,666.481 ppb	55.042 ppb	5,408.205 ppb	5,373.812 ppb	103.070 %
Concentration per Run 3	94.572 %	96.594 %	50.203 ppb	4,798.774 ppb	5,088.656 ppb	50.335 ppb	5,067.519 ppb	5,216.870 ppb	104.044 %
Recovery Percentage 1			99.124 %	94.860 %	100.714 %	97.447 %	99.245 %	101.514 %	
Concentration RSD	3.6 %	15.6 %	1.2 %	13.6 %	13.1 %	14.9 %	10.2 %	7.7 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	50.214 ppb	50.406 ppb	52.038 ppb	5,061.590 ppb	50.065 ppb	51.155 ppb	51.022 ppb	50.637 ppb	101.757 %
Concentration per Run 1	47.041 ppb	47.179 ppb	49.008 ppb	4,765.626 ppb	47.956 ppb	49.583 ppb	49.895 ppb	49.531 ppb	99.793 %
Concentration per Run 2	53.575 ppb	53.881 ppb	55.574 ppb	5,430.527 ppb	53.630 ppb	53.735 ppb	53.538 ppb	53.262 ppb	99.377 %
Concentration per Run 3	50.026 ppb	50.157 ppb	51.532 ppb	4,988.616 ppb	48.609 ppb	50.147 ppb	49.632 ppb	49.117 ppb	106.102 %
Recovery Percentage 1	100.428 %	100.811 %	104.076 %	101.232 %	100.130 %	102.310 %	102.043 %	101.274 %	
Concentration RSD	6.5 %	6.7 %	6.4 %	6.7 %	6.2 %	4.4 %	4.3 %	4.5 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	49.311 ppb	49.054 ppb	48.252 ppb	50.796 ppb	97.555 %	51.013 ppb	49.876 ppb	98.825 %	49.014 ppb
Concentration per Run 1	50.166 ppb	49.057 ppb	46.377 ppb	50.621 ppb	91.981 %	52.952 ppb	50.859 ppb	90.384 %	50.120 ppb
Concentration per Run 2	50.329 ppb	49.738 ppb	50.469 ppb	51.740 ppb	99.547 %	49.772 ppb	49.387 ppb	102.485 %	48.536 ppb
Concentration per Run 3	47.437 ppb	48.367 ppb	47.911 ppb	50.026 ppb	101.137 %	50.316 ppb	49.383 ppb	103.606 %	48.385 ppb
Recovery Percentage 1	98.622 %	98.109 %	96.504 %	101.591 %		102.026 %	99.753 %		98.027 %
Concentration RSD	3.3 %	1.4 %	4.3 %	1.7 %	5.0 %	3.3 %	1.7 %	7.4 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	48.178 ppb	100.410 %	99.184 %	50.010 ppb	51.811 ppb	98.135 %
Concentration per Run 1	48.491 ppb	94.610 %	92.192 %	50.408 ppb	52.521 ppb	91.775 %
Concentration per Run 2	47.899 ppb	102.806 %	101.708 %	49.629 ppb	51.415 ppb	101.304 %
Concentration per Run 3	48.143 ppb	103.814 %	103.651 %	49.994 ppb	51.496 ppb	101.326 %
Recovery Percentage 1	96.356 %			100.021 %	103.622 %	
Concentration RSD	0.6 %	5.0 %	6.2 %	0.8 %	1.2 %	5.6 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 11 User name: ALPHALAB\la2-icpmsq2 Comment: ICB
 Analysis label: ICB Rack: 0
 Analysis started at: 8/1/2023 9:06:57 AM Vial: 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.782 %	94.118 %	0.026 ppb	-0.287 ppb	-0.063 ppb	-0.419 ppb	-0.247 ppb	-0.528 ppb	101.942 %
Concentration per Run 1	101.031 %	91.951 %	0.018 ppb	-1.546 ppb	-0.538 ppb	-0.320 ppb	-3.558 ppb	-1.081 ppb	103.635 %
Concentration per Run 2	96.998 %	89.164 %	0.025 ppb	4.178 ppb	0.049 ppb	-0.408 ppb	3.441 ppb	-0.010 ppb	100.518 %
Concentration per Run 3	98.317 %	101.238 %	0.036 ppb	-3.494 ppb	0.302 ppb	-0.529 ppb	-0.624 ppb	-0.492 ppb	101.674 %
Recovery Percentage 1			5.274 %	-0.287 %	-0.089 %	-4.190 %	-0.247 %	-0.528 %	
Concentration RSD	2.1 %	6.7 %	34.2 %	1,388.5 %	689.3 %	25.1 %	1,425.0 %	101.7 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.052 ppb	-0.016 ppb	-0.013 ppb	4.379 ppb	0.001 ppb	0.002 ppb	0.004 ppb	0.032 ppb	101.817 %
Concentration per Run 1	-0.026 ppb	-0.012 ppb	0.018 ppb	3.756 ppb	0.010 ppb	-0.026 ppb	0.008 ppb	0.097 ppb	95.249 %
Concentration per Run 2	-0.076 ppb	-0.023 ppb	-0.030 ppb	4.663 ppb	0.000 ppb	0.027 ppb	-0.007 ppb	-0.027 ppb	105.368 %
Concentration per Run 3	-0.055 ppb	-0.012 ppb	-0.027 ppb	4.716 ppb	-0.006 ppb	0.004 ppb	0.011 ppb	0.026 ppb	104.834 %
Recovery Percentage 1	-1.042 %	-1.592 %	-1.292 %	8.757 %	0.267 %	0.089 %	0.423 %	0.641 %	
Concentration RSD	48.6 %	39.3 %	209.8 %	12.3 %	583.7 %	1,520.8 %	227.7 %	195.1 %	5.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.017 ppb	-0.020 ppb	-0.002 ppb	0.117 ppb	100.569 %	0.006 ppb	0.002 ppb	101.764 %	0.032 ppb
Concentration per Run 1	0.035 ppb	-0.050 ppb	-0.001 ppb	0.120 ppb	97.643 %	0.008 ppb	0.003 ppb	96.470 %	0.035 ppb
Concentration per Run 2	-0.010 ppb	-0.002 ppb	-0.001 ppb	0.162 ppb	101.548 %	0.005 ppb	-0.001 ppb	105.119 %	0.032 ppb
Concentration per Run 3	0.026 ppb	-0.009 ppb	-0.004 ppb	0.069 ppb	102.514 %	0.006 ppb	0.002 ppb	103.704 %	0.030 ppb
Recovery Percentage 1	3.433 %	-0.409 %	-0.019 %	5.838 %		1.571 %	0.786 %		0.808 %
Concentration RSD	138.4 %	128.0 %	87.0 %	39.7 %	2.6 %	20.5 %	127.2 %	4.6 %	7.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.010 ppb	100.012 %	99.179 %	0.203 ppb	-0.005 ppb	101.054 %
Concentration per Run 1	0.029 ppb	97.200 %	95.406 %	0.200 ppb	-0.006 ppb	97.859 %
Concentration per Run 2	0.021 ppb	100.806 %	100.769 %	0.228 ppb	-0.004 ppb	101.104 %
Concentration per Run 3	-0.020 ppb	102.032 %	101.363 %	0.181 ppb	-0.005 ppb	104.199 %
Recovery Percentage 1	2.026 %			20.306 %	-0.484 %	
Concentration RSD	257.0 %	2.5 %	3.3 %	11.7 %	19.6 %	3.1 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 12 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: LLCCV Rack: 4
 Analysis started at: 8/1/2023 9:13:05 AM Vial: 51

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.786 %	108.978 %	0.324 ppb	96.932 ppb	77.496 ppb	11.130 ppb	113.748 ppb	220.199 ppb	104.428 %
Concentration per Run 1	104.603 %	91.022 %	0.322 ppb	114.607 ppb	81.171 ppb	11.551 ppb	126.189 ppb	229.860 ppb	107.780 %
Concentration per Run 2	99.752 %	130.031 %	0.328 ppb	69.547 ppb	70.018 ppb	9.101 ppb	90.331 ppb	197.540 ppb	101.874 %
Concentration per Run 3	101.003 %	105.882 %	0.322 ppb	106.642 ppb	81.300 ppb	12.738 ppb	124.725 ppb	233.199 ppb	103.631 %
Recovery Percentage 1			64.798 %	96.932 %	110.709 %	111.299 %	113.748 %	220.199 %	
Concentration RSD	2.5 %	18.1 %	1.1 %	24.8 %	8.4 %	16.7 %	17.8 %	8.9 %	2.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	5.281 ppb	0.520 ppb	1.180 ppb	11.383 ppb	0.535 ppb	2.299 ppb	1.246 ppb	11.348 ppb	104.861 %
Concentration per Run 1	5.556 ppb	0.539 ppb	1.316 ppb	12.436 ppb	0.633 ppb	2.431 ppb	1.255 ppb	11.619 ppb	99.921 %
Concentration per Run 2	4.983 ppb	0.495 ppb	1.052 ppb	10.882 ppb	0.497 ppb	2.090 ppb	1.221 ppb	10.845 ppb	105.889 %
Concentration per Run 3	5.303 ppb	0.527 ppb	1.172 ppb	10.830 ppb	0.474 ppb	2.377 ppb	1.262 ppb	11.582 ppb	108.773 %
Recovery Percentage 1	105.614 %	52.037 %	117.992 %	22.765 %	106.947 %	114.964 %	124.605 %	113.484 %	
Concentration RSD	5.4 %	4.3 %	11.2 %	8.0 %	16.1 %	8.0 %	1.8 %	3.8 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.519 ppb	5.389 ppb	0.577 ppb	2.139 ppb	105.237 %	0.247 ppb	0.211 ppb	107.396 %	3.929 ppb
Concentration per Run 1	0.558 ppb	5.268 ppb	0.578 ppb	2.157 ppb	101.241 %	0.254 ppb	0.187 ppb	99.726 %	3.949 ppb
Concentration per Run 2	0.482 ppb	5.722 ppb	0.560 ppb	2.089 ppb	105.989 %	0.248 ppb	0.212 ppb	107.334 %	3.928 ppb
Concentration per Run 3	0.516 ppb	5.178 ppb	0.593 ppb	2.169 ppb	108.482 %	0.238 ppb	0.233 ppb	115.127 %	3.912 ppb
Recovery Percentage 1	103.724 %	107.779 %	115.396 %	106.927 %		61.723 %	105.274 %		98.235 %
Concentration RSD	7.3 %	5.4 %	2.8 %	2.0 %	3.5 %	3.3 %	11.1 %	7.2 %	0.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.568 ppb	106.282 %	105.770 %	0.573 ppb	0.559 ppb	103.961 %
Concentration per Run 1	0.586 ppb	101.101 %	99.604 %	0.584 ppb	0.566 ppb	98.255 %
Concentration per Run 2	0.565 ppb	106.155 %	104.627 %	0.590 ppb	0.557 ppb	104.266 %
Concentration per Run 3	0.553 ppb	111.590 %	113.079 %	0.546 ppb	0.555 ppb	109.360 %
Recovery Percentage 1	113.562 %			114.626 %	111.879 %	
Concentration RSD	2.9 %	4.9 %	6.4 %	4.2 %	1.0 %	5.3 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 13 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: ICSA Rack: 4
 Analysis started at: 8/1/2023 9:17:37 AM Vial: 53

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.615 %	95.356 %	0.020 ppb	50,051.355 ppb	20,536.538 ppb	19,474.818 ppb	19,777.804 ppb	60,030.629 ppb	101.377 %
Concentration per Run 1	90.515 %	86.378 %	0.015 ppb	52,401.335 ppb	21,409.328 ppb	19,926.049 ppb	20,077.742 ppb	60,953.825 ppb	104.116 %
Concentration per Run 2	88.057 %	91.950 %	0.009 ppb	50,136.780 ppb	20,399.510 ppb	19,167.350 ppb	19,185.223 ppb	58,043.178 ppb	100.730 %
Concentration per Run 3	87.273 %	107.740 %	0.035 ppb	47,615.951 ppb	19,800.775 ppb	19,331.054 ppb	20,070.447 ppb	61,094.885 ppb	99.284 %
Recovery Percentage 1			3.991 %	50,051.355 %	29,337.911 %	194,748.177 %	19,777.804 %	60,030.629 %	
Concentration RSD	1.9 %	11.6 %	68.3 %	4.8 %	4.0 %	2.1 %	2.6 %	2.9 %	2.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.045 ppb	0.276 ppb	0.913 ppb	51,082.996 ppb	0.416 ppb	0.785 ppb	0.248 ppb	1.536 ppb	105.503 %
Concentration per Run 1	-0.023 ppb	0.296 ppb	1.005 ppb	52,045.717 ppb	0.432 ppb	0.688 ppb	0.190 ppb	1.616 ppb	100.902 %
Concentration per Run 2	-0.062 ppb	0.252 ppb	0.784 ppb	49,633.407 ppb	0.389 ppb	0.868 ppb	0.270 ppb	1.459 ppb	108.369 %
Concentration per Run 3	-0.050 ppb	0.279 ppb	0.950 ppb	51,569.865 ppb	0.426 ppb	0.799 ppb	0.285 ppb	1.532 ppb	107.236 %
Recovery Percentage 1	-0.902 %	27.571 %	91.319 %	102,165.993 %	83.160 %	39.237 %	24.845 %	30.714 %	
Concentration RSD	43.7 %	8.0 %	12.6 %	2.5 %	5.6 %	11.6 %	20.6 %	5.1 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.110 ppb	0.758 ppb	0.551 ppb	422.142 ppb	93.918 %	0.008 ppb	0.101 ppb	98.832 %	0.051 ppb
Concentration per Run 1	0.106 ppb	0.703 ppb	0.560 ppb	419.542 ppb	91.430 %	0.008 ppb	0.110 ppb	92.606 %	0.058 ppb
Concentration per Run 2	0.087 ppb	0.913 ppb	0.519 ppb	415.136 ppb	93.509 %	0.009 ppb	0.111 ppb	97.625 %	0.049 ppb
Concentration per Run 3	0.136 ppb	0.658 ppb	0.572 ppb	431.749 ppb	96.815 %	0.006 ppb	0.083 ppb	106.266 %	0.046 ppb
Recovery Percentage 1	21.972 %	15.163 %	5.505 %	21,107.105 %		1.902 %	50.561 %		1.265 %
Concentration RSD	22.6 %	18.0 %	5.1 %	2.0 %	2.9 %	22.2 %	15.9 %	7.0 %	12.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.262 ppb	101.323 %	101.071 %	0.034 ppb	0.332 ppb	93.327 %
Concentration per Run 1	0.233 ppb	97.368 %	97.881 %	0.027 ppb	0.337 ppb	89.636 %
Concentration per Run 2	0.290 ppb	100.613 %	97.656 %	0.040 ppb	0.334 ppb	93.127 %
Concentration per Run 3	0.264 ppb	105.988 %	107.675 %	0.035 ppb	0.326 ppb	97.217 %
Recovery Percentage 1	52.426 %			3.420 %	33.245 %	
Concentration RSD	10.8 %	4.3 %	5.7 %	18.1 %	1.7 %	4.1 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 14 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: Rinse Rack 0
 Analysis started at: 8/1/2023 9:22:09 AM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.269 %	101.238 %	0.012 ppb	11.693 ppb	1.182 ppb	1.039 ppb	24.461 ppb	11.586 ppb	100.421 %
Concentration per Run 1	100.250 %	82.662 %	0.009 ppb	25.043 ppb	1.654 ppb	0.643 ppb	25.241 ppb	14.791 ppb	102.010 %
Concentration per Run 2	97.235 %	107.740 %	0.008 ppb	5.695 ppb	0.588 ppb	0.903 ppb	24.245 ppb	8.220 ppb	99.526 %
Concentration per Run 3	97.322 %	113.313 %	0.017 ppb	4.343 ppb	1.302 ppb	1.572 ppb	23.897 ppb	11.746 ppb	99.726 %
Concentration RSD	1.7 %	16.1 %	42.1 %	99.0 %	46.0 %	46.1 %	2.9 %	28.4 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.062 ppb	0.011 ppb	0.204 ppb	22.605 ppb	-0.007 ppb	0.760 ppb	0.431 ppb	2.664 ppb	99.427 %
Concentration per Run 1	-0.062 ppb	0.018 ppb	0.219 ppb	24.766 ppb	-0.013 ppb	0.813 ppb	0.453 ppb	2.676 ppb	95.547 %
Concentration per Run 2	-0.057 ppb	0.016 ppb	0.215 ppb	23.227 ppb	0.008 ppb	0.756 ppb	0.415 ppb	2.655 ppb	97.214 %
Concentration per Run 3	-0.069 ppb	0.000 ppb	0.177 ppb	19.822 ppb	-0.016 ppb	0.711 ppb	0.425 ppb	2.659 ppb	105.521 %
Concentration RSD	10.1 %	83.2 %	11.5 %	11.2 %	188.5 %	6.7 %	4.6 %	0.4 %	5.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.008 ppb	-0.017 ppb	0.013 ppb	0.741 ppb	101.573 %	0.002 ppb	0.001 ppb	103.545 %	0.012 ppb
Concentration per Run 1	-0.010 ppb	-0.001 ppb	0.016 ppb	0.778 ppb	96.390 %	0.001 ppb	0.000 ppb	97.075 %	0.008 ppb
Concentration per Run 2	0.007 ppb	-0.001 ppb	0.012 ppb	0.804 ppb	103.857 %	0.002 ppb	0.001 ppb	105.267 %	0.011 ppb
Concentration per Run 3	0.026 ppb	-0.051 ppb	0.011 ppb	0.640 ppb	104.473 %	0.004 ppb	0.000 ppb	108.294 %	0.016 ppb
Concentration RSD	225.8 %	167.9 %	21.3 %	11.9 %	4.4 %	58.1 %	87.3 %	5.6 %	33.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.048 ppb	102.707 %	101.174 %	0.022 ppb	0.052 ppb	103.065 %
Concentration per Run 1	0.029 ppb	97.076 %	95.392 %	0.015 ppb	0.052 ppb	98.019 %
Concentration per Run 2	0.074 ppb	103.784 %	101.855 %	0.027 ppb	0.055 ppb	103.645 %
Concentration per Run 3	0.042 ppb	107.262 %	106.276 %	0.024 ppb	0.050 ppb	107.530 %
Concentration RSD	47.7 %	5.0 %	5.4 %	29.7 %	4.9 %	4.6 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 15 User name ALPHALAB\la2-icpmsq2 Comment CCV/MCCV
 Analysis label: CCV Rack 0
 Analysis started at: 8/1/2023 9:26:37 AM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.660 %	92.260 %	58.251 ppb	6,190.335 ppb	6,452.408 ppb	62.746 ppb	6,224.920 ppb	6,365.396 ppb	106.048 %
Concentration per Run 1	99.118 %	78.019 %	58.793 ppb	6,592.590 ppb	6,829.171 ppb	64.892 ppb	6,498.711 ppb	6,407.529 ppb	107.984 %
Concentration per Run 2	96.388 %	119.814 %	58.316 ppb	4,960.389 ppb	5,122.497 ppb	50.302 ppb	5,343.422 ppb	5,768.256 ppb	105.950 %
Concentration per Run 3	97.475 %	78.947 %	57.644 ppb	7,018.025 ppb	7,405.557 ppb	73.044 ppb	6,832.626 ppb	6,920.403 ppb	104.209 %
Recovery Percentage 1			97.085 %	103.172 %	107.540 %	104.577 %	103.749 %	106.090 %	
Concentration RSD	1.4 %	25.9 %	1.0 %	17.5 %	18.4 %	18.4 %	12.6 %	9.1 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	61.507 ppb	61.905 ppb	62.579 ppb	6,216.872 ppb	61.867 ppb	62.170 ppb	62.572 ppb	61.854 ppb	99.737 %
Concentration per Run 1	62.663 ppb	63.146 ppb	62.232 ppb	6,308.603 ppb	62.223 ppb	62.957 ppb	62.000 ppb	61.915 ppb	99.900 %
Concentration per Run 2	56.258 ppb	55.749 ppb	57.444 ppb	5,675.518 ppb	57.929 ppb	57.801 ppb	58.965 ppb	58.930 ppb	101.543 %
Concentration per Run 3	65.600 ppb	66.820 ppb	68.060 ppb	6,666.494 ppb	65.450 ppb	65.753 ppb	66.750 ppb	64.718 ppb	97.768 %
Recovery Percentage 1	102.511 %	103.175 %	104.298 %	103.615 %	103.112 %	103.617 %	104.286 %	103.090 %	
Concentration RSD	7.8 %	9.1 %	8.5 %	8.1 %	6.1 %	6.5 %	6.3 %	4.7 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.139 ppb	59.440 ppb	59.462 ppb	59.564 ppb	99.750 %	59.703 ppb	59.398 ppb	100.363 %	57.848 ppb
Concentration per Run 1	58.471 ppb	58.630 ppb	59.293 ppb	59.741 ppb	96.089 %	60.861 ppb	59.865 ppb	96.420 %	58.484 ppb
Concentration per Run 2	59.320 ppb	58.638 ppb	58.358 ppb	58.963 ppb	102.282 %	59.489 ppb	59.813 ppb	101.644 %	56.944 ppb
Concentration per Run 3	62.626 ppb	61.052 ppb	60.736 ppb	59.988 ppb	100.880 %	58.759 ppb	58.517 ppb	103.026 %	58.115 ppb
Recovery Percentage 1	100.232 %	99.067 %	99.104 %	99.273 %		99.505 %	98.997 %		96.413 %
Concentration RSD	3.7 %	2.3 %	2.0 %	0.9 %	3.3 %	1.8 %	1.3 %	3.5 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.496 ppb	101.284 %	100.197 %	58.570 ppb	60.290 ppb	99.847 %
Concentration per Run 1	59.019 ppb	97.185 %	96.181 %	57.761 ppb	60.618 ppb	96.168 %
Concentration per Run 2	57.121 ppb	101.658 %	100.460 %	58.664 ppb	60.101 ppb	100.636 %
Concentration per Run 3	59.347 ppb	105.007 %	103.951 %	59.284 ppb	60.152 ppb	102.737 %
Recovery Percentage 1	97.493 %			97.616 %	100.484 %	
Concentration RSD	2.1 %	3.9 %	3.9 %	1.3 %	0.5 %	3.4 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 16 User name ALPHALAB\la2-icpmsq2 Comment CCB
 Analysis label: CCB Rack 0
 Analysis started at: 8/1/2023 9:31:09 AM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.781 %	102.477 %	0.014 ppb	-3.112 ppb	-0.112 ppb	-0.559 ppb	-3.763 ppb	-1.990 ppb	103.919 %
Concentration per Run 1	101.539 %	92.879 %	0.009 ppb	1.453 ppb	0.283 ppb	-0.513 ppb	3.709 ppb	-1.106 ppb	106.959 %
Concentration per Run 2	98.162 %	104.954 %	0.014 ppb	-3.935 ppb	-0.352 ppb	-0.676 ppb	-7.595 ppb	-1.208 ppb	102.066 %
Concentration per Run 3	99.642 %	109.598 %	0.018 ppb	-6.855 ppb	-0.268 ppb	-0.488 ppb	-7.404 ppb	-3.657 ppb	102.734 %
Recovery Percentage 1			2.774 %	-3.112 %	-0.161 %	-5.592 %	-3.763 %	-1.990 %	
Concentration RSD	1.7 %	8.4 %	30.9 %	135.4 %	306.7 %	18.3 %	172.0 %	72.6 %	2.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.077 ppb	-0.013 ppb	-0.001 ppb	4.710 ppb	-0.011 ppb	0.017 ppb	0.004 ppb	-0.023 ppb	100.840 %
Concentration per Run 1	-0.081 ppb	-0.006 ppb	-0.044 ppb	4.841 ppb	-0.003 ppb	0.030 ppb	-0.001 ppb	0.032 ppb	95.582 %
Concentration per Run 2	-0.085 ppb	-0.014 ppb	0.014 ppb	4.917 ppb	-0.009 ppb	0.007 ppb	0.002 ppb	-0.015 ppb	101.366 %
Concentration per Run 3	-0.065 ppb	-0.019 ppb	0.026 ppb	4.370 ppb	-0.021 ppb	0.013 ppb	0.011 ppb	-0.087 ppb	105.571 %
Recovery Percentage 1	-1.541 %	-1.283 %	-0.128 %	9.419 %	-2.202 %	0.838 %	0.384 %	-0.467 %	
Concentration RSD	14.2 %	51.1 %	2,923.8 %	6.3 %	82.8 %	73.0 %	155.5 %	255.7 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.023 ppb	-0.016 ppb	-0.002 ppb	0.190 ppb	103.462 %	0.007 ppb	0.001 ppb	101.927 %	0.016 ppb
Concentration per Run 1	0.030 ppb	-0.080 ppb	-0.005 ppb	0.178 ppb	101.992 %	0.006 ppb	0.001 ppb	99.221 %	0.015 ppb
Concentration per Run 2	0.021 ppb	0.015 ppb	0.000 ppb	0.207 ppb	103.186 %	0.010 ppb	0.001 ppb	101.471 %	0.017 ppb
Concentration per Run 3	0.019 ppb	0.017 ppb	0.000 ppb	0.186 ppb	105.209 %	0.004 ppb	-0.001 ppb	105.089 %	0.017 ppb
Recovery Percentage 1	4.686 %	-0.322 %	-0.019 %	9.517 %		1.654 %	0.302 %		0.404 %
Concentration RSD	23.3 %	345.8 %	164.6 %	8.1 %	1.6 %	49.7 %	178.1 %	2.9 %	6.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.003 ppb	102.719 %	101.825 %	0.232 ppb	-0.004 ppb	103.705 %
Concentration per Run 1	0.034 ppb	100.191 %	100.251 %	0.225 ppb	-0.002 ppb	101.844 %
Concentration per Run 2	-0.012 ppb	102.363 %	101.082 %	0.264 ppb	-0.004 ppb	103.859 %
Concentration per Run 3	-0.013 ppb	105.603 %	104.140 %	0.208 ppb	-0.005 ppb	105.411 %
Recovery Percentage 1	0.630 %			23.220 %	-0.383 %	
Concentration RSD	860.4 %	2.7 %	2.0 %	12.3 %	38.4 %	1.7 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 17 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809695-1D10 SPLP-6020T Rack: 1
 Analysis started at: 8/1/2023 9:39:55 AM Vial: 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	264.615 %	180.805 %	0.048 ppb	34.809 ppb	2.681 ppb	-0.625 ppb	-26.235 ppb	21.957 ppb	187.593 %
Concentration per Run 1	276.610 %	194.118 %	0.049 ppb	26.504 ppb	2.091 ppb	-0.590 ppb	-26.066 ppb	19.331 ppb	197.624 %
Concentration per Run 2	264.400 %	169.969 %	0.050 ppb	40.788 ppb	3.138 ppb	-0.597 ppb	-27.086 ppb	25.451 ppb	190.079 %
Concentration per Run 3	252.834 %	178.329 %	0.045 ppb	37.136 ppb	2.813 ppb	-0.687 ppb	-25.552 ppb	21.088 ppb	175.078 %
Concentration RSD	4.5 %	6.8 %	5.3 %	21.3 %	20.0 %	8.7 %	3.0 %	14.4 %	6.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.058 ppb	-0.034 ppb	-0.034 ppb	0.832 ppb	-0.001 ppb	0.051 ppb	0.027 ppb	3.375 ppb	118.370 %
Concentration per Run 1	-0.047 ppb	-0.040 ppb	-0.058 ppb	0.783 ppb	0.002 ppb	0.077 ppb	0.032 ppb	3.380 ppb	113.506 %
Concentration per Run 2	-0.066 ppb	-0.031 ppb	-0.020 ppb	0.220 ppb	-0.001 ppb	0.038 ppb	0.027 ppb	3.335 ppb	122.845 %
Concentration per Run 3	-0.063 ppb	-0.029 ppb	-0.024 ppb	1.493 ppb	-0.006 ppb	0.040 ppb	0.022 ppb	3.410 ppb	118.760 %
Concentration RSD	17.6 %	17.6 %	62.8 %	76.7 %	282.9 %	42.2 %	18.9 %	1.1 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.064 ppb	-0.013 ppb	0.122 ppb	0.041 ppb	156.352 %	0.004 ppb	0.001 ppb	177.309 %	0.004 ppb
Concentration per Run 1	-0.066 ppb	-0.033 ppb	0.115 ppb	0.025 ppb	154.676 %	0.005 ppb	0.000 ppb	173.293 %	0.002 ppb
Concentration per Run 2	-0.069 ppb	0.024 ppb	0.129 ppb	0.052 ppb	155.921 %	0.003 ppb	0.000 ppb	174.382 %	0.004 ppb
Concentration per Run 3	-0.056 ppb	-0.031 ppb	0.122 ppb	0.046 ppb	158.458 %	0.004 ppb	0.002 ppb	184.254 %	0.005 ppb
Concentration RSD	11.0 %	238.9 %	5.5 %	34.1 %	1.2 %	27.0 %	125.6 %	3.4 %	34.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3.361 ppb	197.471 %	204.364 %	0.044 ppb	-0.003 ppb	175.831 %
Concentration per Run 1	3.386 ppb	190.457 %	193.896 %	0.036 ppb	-0.003 ppb	166.358 %
Concentration per Run 2	3.525 ppb	197.949 %	203.659 %	0.048 ppb	-0.003 ppb	177.457 %
Concentration per Run 3	3.171 ppb	204.006 %	215.537 %	0.047 ppb	-0.004 ppb	183.678 %
Concentration RSD	5.3 %	3.4 %	5.3 %	15.3 %	16.0 %	5.0 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 18 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1809695-2D10 SPLP-6020T Rack 1
 Analysis started at: 8/1/2023 9:44:23 AM Vial 2

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	254.557 %	174.613 %	4.468 ppb	771.510 ppb	767.406 ppb	164.100 ppb	748.315 ppb	1,247.967 ppb	186.083 %
Concentration per Run 1	262.436 %	175.542 %	4.464 ppb	751.192 ppb	751.624 ppb	156.058 ppb	719.526 ppb	1,212.475 ppb	189.237 %
Concentration per Run 2	251.548 %	179.257 %	4.481 ppb	759.717 ppb	755.079 ppb	165.091 ppb	745.140 ppb	1,197.182 ppb	186.999 %
Concentration per Run 3	249.687 %	169.041 %	4.458 ppb	803.622 ppb	795.516 ppb	171.152 ppb	780.281 ppb	1,334.246 ppb	182.014 %
Concentration RSD	2.7 %	3.0 %	0.3 %	3.6 %	3.2 %	4.6 %	4.1 %	6.0 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	45.064 ppb	17.641 ppb	50.459 ppb	109.285 ppb	52.462 ppb	51.787 ppb	28.513 ppb	59.365 ppb	118.362 %
Concentration per Run 1	44.905 ppb	17.641 ppb	49.646 ppb	111.725 ppb	51.549 ppb	51.694 ppb	29.253 ppb	59.228 ppb	112.567 %
Concentration per Run 2	43.531 ppb	17.347 ppb	49.473 ppb	109.411 ppb	52.564 ppb	52.525 ppb	27.686 ppb	59.599 ppb	120.372 %
Concentration per Run 3	46.756 ppb	17.935 ppb	52.259 ppb	106.719 ppb	53.274 ppb	51.141 ppb	28.598 ppb	59.268 ppb	122.148 %
Concentration RSD	3.6 %	1.7 %	3.1 %	2.3 %	1.7 %	1.3 %	2.8 %	0.3 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.444 ppb	21.045 ppb	126.295 ppb	98.729 ppb	153.591 %	5.655 ppb	5.559 ppb	173.523 %	34.386 ppb
Concentration per Run 1	12.491 ppb	20.997 ppb	129.082 ppb	97.762 ppb	145.015 %	5.791 ppb	5.653 ppb	166.415 %	34.197 ppb
Concentration per Run 2	12.192 ppb	19.785 ppb	124.598 ppb	100.601 ppb	156.252 %	5.525 ppb	5.425 ppb	172.050 %	35.108 ppb
Concentration per Run 3	12.650 ppb	22.353 ppb	125.206 ppb	97.824 ppb	159.507 %	5.649 ppb	5.600 ppb	182.104 %	33.853 ppb
Concentration RSD	1.9 %	6.1 %	1.9 %	1.6 %	5.0 %	2.3 %	2.1 %	4.6 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	184.888 ppb	197.614 %	205.312 %	13.168 ppb	58.838 ppb	169.832 %
Concentration per Run 1	183.651 ppb	184.454 %	191.779 %	13.023 ppb	58.910 ppb	158.345 %
Concentration per Run 2	187.405 ppb	200.884 %	208.223 %	13.101 ppb	58.643 ppb	172.235 %
Concentration per Run 3	183.606 ppb	207.504 %	215.935 %	13.379 ppb	58.960 ppb	178.916 %
Concentration RSD	1.2 %	6.0 %	6.0 %	1.4 %	0.3 %	6.2 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 19 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1809695-3D10 SPLP-6020T Rack 1
 Analysis started at: 8/1/2023 9:48:51 AM Vial 4

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	256.206 %	163.158 %	4.393 ppb	1,198.275 ppb	1,060.579 ppb	192.290 ppb	1,567.688 ppb	5,528.923 ppb	188.778 %
Concentration per Run 1	259.924 %	158.824 %	4.415 ppb	1,178.783 ppb	1,047.770 ppb	193.581 ppb	1,555.618 ppb	5,477.630 ppb	194.298 %
Concentration per Run 2	259.198 %	178.329 %	4.398 ppb	1,136.507 ppb	1,009.259 ppb	179.932 ppb	1,542.195 ppb	5,607.686 ppb	187.600 %
Concentration per Run 3	249.496 %	152.322 %	4.364 ppb	1,279.535 ppb	1,124.708 ppb	203.356 ppb	1,605.252 ppb	5,501.453 ppb	184.436 %
Concentration RSD	2.3 %	8.3 %	0.6 %	6.1 %	5.5 %	6.1 %	2.1 %	1.3 %	2.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.038 ppb	18.491 ppb	51.343 ppb	108.156 ppb	53.822 ppb	51.874 ppb	29.442 ppb	56.691 ppb	119.925 %
Concentration per Run 1	46.042 ppb	18.296 ppb	49.941 ppb	107.712 ppb	53.738 ppb	52.779 ppb	29.816 ppb	58.098 ppb	115.022 %
Concentration per Run 2	47.329 ppb	19.001 ppb	52.379 ppb	108.951 ppb	54.493 ppb	52.363 ppb	29.705 ppb	56.623 ppb	113.902 %
Concentration per Run 3	47.744 ppb	18.176 ppb	51.708 ppb	107.804 ppb	53.235 ppb	50.479 ppb	28.806 ppb	55.353 ppb	130.851 %
Concentration RSD	1.9 %	2.4 %	2.5 %	0.6 %	1.2 %	2.4 %	1.9 %	2.4 %	7.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.269 ppb	20.224 ppb	166.174 ppb	99.996 ppb	157.431 %	5.603 ppb	5.668 ppb	177.783 %	34.561 ppb
Concentration per Run 1	12.447 ppb	20.989 ppb	171.489 ppb	105.718 ppb	148.275 %	5.753 ppb	5.866 ppb	165.949 %	35.556 ppb
Concentration per Run 2	12.384 ppb	21.213 ppb	164.663 ppb	98.540 ppb	157.100 %	5.571 ppb	5.583 ppb	181.761 %	33.641 ppb
Concentration per Run 3	11.977 ppb	18.469 ppb	162.371 ppb	95.729 ppb	166.917 %	5.486 ppb	5.556 ppb	185.640 %	34.487 ppb
Concentration RSD	2.1 %	7.5 %	2.9 %	5.2 %	5.9 %	2.4 %	3.0 %	5.9 %	2.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	202.577 ppb	202.353 %	209.424 %	13.224 ppb	58.328 ppb	174.450 %
Concentration per Run 1	210.283 ppb	187.286 %	192.669 %	13.525 ppb	60.154 ppb	157.814 %
Concentration per Run 2	195.046 ppb	204.544 %	211.016 %	13.088 ppb	57.605 ppb	178.273 %
Concentration per Run 3	202.402 ppb	215.230 %	224.585 %	13.059 ppb	57.226 ppb	187.263 %
Concentration RSD	3.8 %	7.0 %	7.6 %	2.0 %	2.7 %	8.7 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 20 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1809695-5D10 SPLP-6020T Rack 1
 Analysis started at: 8/1/2023 9:53:20 AM Vial 6

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	248.133 %	169.660 %	42.950 ppb	4,153.440 ppb	4,298.216 ppb	54.385 ppb	4,712.095 ppb	9,431.157 ppb	193.035 %
Concentration per Run 1	253.634 %	182.973 %	42.220 ppb	3,760.561 ppb	3,833.308 ppb	51.399 ppb	4,472.036 ppb	8,870.900 ppb	200.542 %
Concentration per Run 2	247.072 %	159.753 %	44.069 ppb	4,505.429 ppb	4,709.154 ppb	56.517 ppb	4,745.100 ppb	10,025.394 ppb	186.872 %
Concentration per Run 3	243.692 %	166.254 %	42.560 ppb	4,194.329 ppb	4,352.187 ppb	55.239 ppb	4,919.149 ppb	9,397.176 ppb	191.690 %
Concentration RSD	2.0 %	7.1 %	2.3 %	9.0 %	10.2 %	4.9 %	4.8 %	6.1 %	3.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	45.414 ppb	45.116 ppb	51.406 ppb	5,053.531 ppb	52.618 ppb	52.881 ppb	55.994 ppb	56.375 ppb	124.736 %
Concentration per Run 1	42.791 ppb	42.821 ppb	48.935 ppb	4,745.942 ppb	50.669 ppb	51.491 ppb	53.749 ppb	55.750 ppb	122.259 %
Concentration per Run 2	49.108 ppb	49.408 ppb	55.100 ppb	5,508.917 ppb	55.627 ppb	56.000 ppb	59.737 ppb	58.619 ppb	120.781 %
Concentration per Run 3	44.345 ppb	43.119 ppb	50.181 ppb	4,905.734 ppb	51.557 ppb	51.153 ppb	54.496 ppb	54.756 ppb	131.168 %
Concentration RSD	7.2 %	8.2 %	6.3 %	8.0 %	5.0 %	5.1 %	5.8 %	3.6 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	49.684 ppb	85.529 ppb	103.636 ppb	53.199 ppb	154.067 %	57.181 ppb	51.108 ppb	176.598 %	35.594 ppb
Concentration per Run 1	49.812 ppb	83.590 ppb	103.812 ppb	51.988 ppb	154.437 %	112.953 ppb	50.903 ppb	176.069 %	35.033 ppb
Concentration per Run 2	51.291 ppb	90.774 ppb	104.169 ppb	53.808 ppb	149.631 %	39.078 ppb	51.083 ppb	173.924 %	35.750 ppb
Concentration per Run 3	47.950 ppb	82.223 ppb	102.927 ppb	53.801 ppb	158.131 %	19.513 ppb	51.339 ppb	179.802 %	35.999 ppb
Concentration RSD	3.4 %	5.4 %	0.6 %	2.0 %	2.8 %	86.2 %	0.4 %	1.7 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	64.357 ppb	199.559 %	206.218 %	61.484 ppb	56.569 ppb	169.027 %
Concentration per Run 1	64.135 ppb	196.603 %	202.920 %	60.450 ppb	55.684 ppb	163.894 %
Concentration per Run 2	64.813 ppb	194.679 %	198.945 %	62.187 ppb	57.760 ppb	167.815 %
Concentration per Run 3	64.122 ppb	207.394 %	216.788 %	61.815 ppb	56.263 ppb	175.371 %
Concentration RSD	0.6 %	3.4 %	4.5 %	1.5 %	1.9 %	3.5 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 21 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809695-4D10 SPLP-6020T Rack: 1
 Analysis started at: 8/1/2023 9:57:49 AM Vial: 5

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	254.279 %	167.493 %	0.038 ppb	394.834 ppb	231.320 ppb	13.771 ppb	721.325 ppb	4,148.492 ppb	187.345 %
Concentration per Run 1	256.102 %	169.041 %	0.048 ppb	394.042 ppb	225.342 ppb	15.478 ppb	757.918 ppb	4,234.297 ppb	189.298 %
Concentration per Run 2	247.800 %	163.468 %	0.034 ppb	408.118 ppb	239.636 ppb	12.960 ppb	731.685 ppb	4,137.522 ppb	178.862 %
Concentration per Run 3	258.934 %	169.969 %	0.032 ppb	382.341 ppb	228.980 ppb	12.875 ppb	674.374 ppb	4,073.658 ppb	193.876 %
Concentration RSD	2.3 %	2.1 %	22.4 %	3.3 %	3.2 %	10.7 %	5.9 %	1.9 %	4.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.043 ppb	0.041 ppb	-0.018 ppb	2.474 ppb	-0.006 ppb	0.045 ppb	0.072 ppb	0.365 ppb	131.801 %
Concentration per Run 1	0.034 ppb	0.030 ppb	0.011 ppb	2.681 ppb	-0.011 ppb	0.055 ppb	0.086 ppb	0.332 ppb	135.853 %
Concentration per Run 2	0.027 ppb	0.056 ppb	-0.011 ppb	2.317 ppb	-0.007 ppb	0.027 ppb	0.058 ppb	0.406 ppb	125.897 %
Concentration per Run 3	0.069 ppb	0.037 ppb	-0.053 ppb	2.425 ppb	0.001 ppb	0.051 ppb	0.072 ppb	0.357 ppb	133.651 %
Concentration RSD	51.2 %	32.2 %	183.8 %	7.6 %	108.5 %	34.0 %	20.0 %	10.4 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.040 ppb	0.121 ppb	39.208 ppb	0.746 ppb	163.356 %	0.113 ppb	0.192 ppb	190.381 %	0.080 ppb
Concentration per Run 1	-0.028 ppb	0.132 ppb	40.338 ppb	0.738 ppb	163.194 %	0.079 ppb	0.196 ppb	194.542 %	0.075 ppb
Concentration per Run 2	-0.050 ppb	0.181 ppb	40.116 ppb	0.798 ppb	164.108 %	0.121 ppb	0.194 ppb	194.629 %	0.085 ppb
Concentration per Run 3	-0.042 ppb	0.048 ppb	37.170 ppb	0.703 ppb	162.765 %	0.138 ppb	0.185 ppb	181.972 %	0.080 ppb
Concentration RSD	28.0 %	55.9 %	4.5 %	6.4 %	0.4 %	26.7 %	3.0 %	3.8 %	5.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	18.827 ppb	208.678 %	217.039 %	0.257 ppb	0.008 ppb	182.767 %
Concentration per Run 1	19.249 ppb	203.641 %	215.513 %	0.242 ppb	0.008 ppb	174.581 %
Concentration per Run 2	18.728 ppb	214.648 %	220.446 %	0.292 ppb	0.007 ppb	187.252 %
Concentration per Run 3	18.503 ppb	207.745 %	215.157 %	0.236 ppb	0.009 ppb	186.467 %
Concentration RSD	2.0 %	2.7 %	1.4 %	12.0 %	17.1 %	3.9 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 22 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: L2343561-01D10 SPLP-6020T Rack: 1
 Analysis started at: 8/1/2023 10:02:18 AM Vial: 3

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	254.045 %	178.019 %	0.032 ppb	378.895 ppb	224.982 ppb	13.119 ppb	694.326 ppb	3,967.297 ppb	187.761 %
Concentration per Run 1	256.852 %	180.186 %	0.036 ppb	384.282 ppb	229.603 ppb	12.869 ppb	729.955 ppb	3,905.343 ppb	192.280 %
Concentration per Run 2	259.587 %	171.827 %	0.029 ppb	396.093 ppb	235.877 ppb	13.698 ppb	713.005 ppb	4,221.402 ppb	188.368 %
Concentration per Run 3	245.696 %	182.044 %	0.030 ppb	356.311 ppb	209.465 ppb	12.788 ppb	640.019 ppb	3,775.146 ppb	182.635 %
Concentration RSD	2.9 %	3.1 %	12.9 %	5.4 %	6.1 %	3.8 %	6.9 %	5.8 %	2.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.042 ppb	0.033 ppb	-0.006 ppb	1.307 ppb	0.000 ppb	0.067 ppb	0.087 ppb	0.170 ppb	129.272 %
Concentration per Run 1	0.035 ppb	0.028 ppb	-0.021 ppb	1.465 ppb	-0.003 ppb	0.059 ppb	0.093 ppb	0.122 ppb	140.523 %
Concentration per Run 2	0.048 ppb	0.052 ppb	0.024 ppb	1.701 ppb	0.005 ppb	0.070 ppb	0.060 ppb	0.226 ppb	127.381 %
Concentration per Run 3	0.042 ppb	0.018 ppb	-0.020 ppb	0.756 ppb	-0.004 ppb	0.072 ppb	0.107 ppb	0.163 ppb	119.911 %
Concentration RSD	16.3 %	53.1 %	447.2 %	37.6 %	1,139.7 %	10.7 %	27.9 %	30.7 %	8.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.038 ppb	0.034 ppb	40.214 ppb	0.620 ppb	170.654 %	0.077 ppb	0.191 ppb	197.904 %	0.078 ppb
Concentration per Run 1	-0.039 ppb	-0.008 ppb	40.590 ppb	0.599 ppb	172.594 %	0.054 ppb	0.172 ppb	207.510 %	0.073 ppb
Concentration per Run 2	-0.037 ppb	0.014 ppb	40.169 ppb	0.621 ppb	173.016 %	0.087 ppb	0.198 ppb	200.107 %	0.083 ppb
Concentration per Run 3	-0.038 ppb	0.094 ppb	39.882 ppb	0.639 ppb	166.351 %	0.091 ppb	0.203 ppb	186.096 %	0.078 ppb
Concentration RSD	3.2 %	160.3 %	0.9 %	3.2 %	2.2 %	25.9 %	8.8 %	5.5 %	6.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	18.802 ppb	215.730 %	224.138 %	0.082 ppb	0.006 ppb	187.059 %
Concentration per Run 1	19.091 ppb	215.680 %	227.829 %	0.063 ppb	0.006 ppb	185.184 %
Concentration per Run 2	18.340 ppb	216.451 %	223.467 %	0.094 ppb	0.005 ppb	187.221 %
Concentration per Run 3	18.977 ppb	215.057 %	221.117 %	0.088 ppb	0.007 ppb	188.774 %
Concentration RSD	2.2 %	0.3 %	1.5 %	20.3 %	14.6 %	1.0 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 23 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: L2343561-02D10 SPLP-6020T Rack: 1
 Analysis started at: 8/1/2023 10:06:47 AM Vial: 8

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	265.176 %	195.357 %	0.028 ppb	197.125 ppb	123.289 ppb	29.614 ppb	110.146 ppb	1,974.511 ppb	203.295 %
Concentration per Run 1	271.903 %	199.691 %	0.022 ppb	197.628 ppb	122.824 ppb	30.132 ppb	108.728 ppb	1,943.783 ppb	206.514 %
Concentration per Run 2	264.717 %	205.264 %	0.036 ppb	178.808 ppb	119.563 ppb	28.134 ppb	107.645 ppb	1,985.508 ppb	208.147 %
Concentration per Run 3	258.908 %	181.115 %	0.026 ppb	214.941 ppb	127.481 ppb	30.575 ppb	114.065 ppb	1,994.241 ppb	195.224 %
Concentration RSD	2.5 %	6.5 %	25.3 %	9.2 %	3.2 %	4.4 %	3.1 %	1.4 %	3.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.395 ppb	0.095 ppb	0.638 ppb	33.906 ppb	0.006 ppb	0.100 ppb	0.358 ppb	0.547 ppb	135.576 %
Concentration per Run 1	0.321 ppb	0.081 ppb	0.562 ppb	33.690 ppb	0.003 ppb	0.101 ppb	0.352 ppb	0.483 ppb	140.107 %
Concentration per Run 2	0.422 ppb	0.111 ppb	0.624 ppb	31.211 ppb	0.002 ppb	0.094 ppb	0.345 ppb	0.624 ppb	130.649 %
Concentration per Run 3	0.441 ppb	0.094 ppb	0.728 ppb	36.818 ppb	0.012 ppb	0.107 ppb	0.376 ppb	0.534 ppb	135.970 %
Concentration RSD	16.3 %	15.5 %	13.2 %	8.3 %	105.3 %	6.3 %	4.6 %	13.1 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.034 ppb	0.194 ppb	16.150 ppb	0.683 ppb	172.901 %	0.045 ppb	0.014 ppb	200.054 %	0.070 ppb
Concentration per Run 1	0.041 ppb	0.234 ppb	16.421 ppb	0.643 ppb	173.776 %	0.034 ppb	0.013 ppb	207.073 %	0.072 ppb
Concentration per Run 2	0.023 ppb	0.118 ppb	16.071 ppb	0.716 ppb	172.997 %	0.049 ppb	0.013 ppb	196.028 %	0.067 ppb
Concentration per Run 3	0.040 ppb	0.229 ppb	15.959 ppb	0.689 ppb	171.931 %	0.053 ppb	0.016 ppb	197.060 %	0.070 ppb
Concentration RSD	29.8 %	33.9 %	1.5 %	5.4 %	0.5 %	21.8 %	12.5 %	3.0 %	3.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	4.614 ppb	218.540 %	226.638 %	0.046 ppb	0.579 ppb	191.862 %
Concentration per Run 1	4.639 ppb	216.880 %	226.096 %	0.035 ppb	0.570 ppb	185.364 %
Concentration per Run 2	4.500 ppb	216.174 %	221.499 %	0.052 ppb	0.583 ppb	191.074 %
Concentration per Run 3	4.704 ppb	222.567 %	232.319 %	0.053 ppb	0.583 ppb	199.147 %
Concentration RSD	2.3 %	1.6 %	2.4 %	22.2 %	1.3 %	3.6 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 24 User name: ALPHALABla2-icpmsq2 Comment: <Comment>
 Analysis label: xL2342678-01 6020TL Rack: 1
 Analysis started at: 8/1/2023 10:11:17 AM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	262.688 %	169.041 %	0.026 ppb	8,518.831 ppb	916.143 ppb	4.628 ppb	513.647 ppb	5,984.600 ppb	199.213 %
Concentration per Run 1	264.731 %	179.257 %	0.023 ppb	7,985.281 ppb	861.872 ppb	4.573 ppb	476.122 ppb	5,809.848 ppb	199.263 %
Concentration per Run 2	267.578 %	165.325 %	0.022 ppb	8,598.811 ppb	907.371 ppb	4.699 ppb	519.200 ppb	6,112.591 ppb	204.643 %
Concentration per Run 3	255.756 %	162.539 %	0.031 ppb	8,972.400 ppb	979.185 ppb	4.614 ppb	545.620 ppb	6,031.360 ppb	193.733 %
Concentration RSD	2.3 %	5.3 %	18.4 %	5.9 %	6.5 %	1.4 %	6.8 %	2.6 %	2.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.039 ppb	0.172 ppb	1.393 ppb	10.068 ppb	-0.001 ppb	0.221 ppb	1.289 ppb	2.199 ppb	134.486 %
Concentration per Run 1	0.046 ppb	0.125 ppb	1.269 ppb	8.088 ppb	0.000 ppb	0.212 ppb	1.268 ppb	2.075 ppb	137.054 %
Concentration per Run 2	0.069 ppb	0.165 ppb	1.405 ppb	9.929 ppb	-0.005 ppb	0.201 ppb	1.305 ppb	2.174 ppb	135.688 %
Concentration per Run 3	0.001 ppb	0.225 ppb	1.506 ppb	12.187 ppb	0.003 ppb	0.251 ppb	1.294 ppb	2.346 ppb	130.716 %
Concentration RSD	89.2 %	29.1 %	8.6 %	20.4 %	421.1 %	12.0 %	1.5 %	6.2 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.218 ppb	0.060 ppb	22.332 ppb	0.107 ppb	163.578 %	0.027 ppb	0.001 ppb	191.077 %	0.055 ppb
Concentration per Run 1	0.167 ppb	0.001 ppb	22.582 ppb	0.091 ppb	156.547 %	0.026 ppb	0.002 ppb	184.763 %	0.057 ppb
Concentration per Run 2	0.227 ppb	0.049 ppb	21.959 ppb	0.100 ppb	166.352 %	0.024 ppb	0.000 ppb	192.969 %	0.053 ppb
Concentration per Run 3	0.260 ppb	0.128 ppb	22.456 ppb	0.130 ppb	167.835 %	0.030 ppb	0.000 ppb	195.498 %	0.056 ppb
Concentration RSD	21.7 %	108.2 %	1.5 %	19.0 %	3.7 %	11.1 %	142.9 %	2.9 %	3.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	15.274 ppb	210.265 %	219.439 %	0.038 ppb	0.038 ppb	176.901 %
Concentration per Run 1	15.971 ppb	202.197 %	210.678 %	0.030 ppb	0.039 ppb	168.114 %
Concentration per Run 2	14.802 ppb	210.899 %	218.768 %	0.043 ppb	0.039 ppb	176.769 %
Concentration per Run 3	15.048 ppb	217.698 %	228.871 %	0.040 ppb	0.037 ppb	185.820 %
Concentration RSD	4.0 %	3.7 %	4.2 %	18.9 %	3.9 %	5.0 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 25 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: xL2342678-03 6020TL Rack: 1
 Analysis started at: 8/1/2023 10:15:47 AM Vial: 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	254.731 %	182.353 %	0.022 ppb	64,088.917 ppb	12,720.184 ppb	15.245 ppb	7,129.589 ppb	76,761.462 ppb	218.943 %
Concentration per Run 1	260.412 %	172.756 %	0.020 ppb	64,869.328 ppb	12,771.689 ppb	14.933 ppb	7,177.401 ppb	77,802.261 ppb	228.756 %
Concentration per Run 2	255.725 %	188.545 %	0.023 ppb	63,255.195 ppb	12,574.172 ppb	13.645 ppb	6,945.726 ppb	76,059.316 ppb	212.544 %
Concentration per Run 3	248.057 %	185.759 %	0.025 ppb	64,142.228 ppb	12,814.692 ppb	17.156 ppb	7,265.640 ppb	76,422.809 ppb	215.529 %
Concentration RSD	2.4 %	4.6 %	11.8 %	1.3 %	1.0 %	11.7 %	2.3 %	1.2 %	3.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.422 ppb	0.333 ppb	1,336.578 ppb	5,782.200 ppb	0.884 ppb	0.714 ppb	0.454 ppb	4.239 ppb	136.332 %
Concentration per Run 1	0.363 ppb	0.284 ppb	1,319.181 ppb	5,749.382 ppb	0.850 ppb	0.734 ppb	0.482 ppb	4.178 ppb	135.771 %
Concentration per Run 2	0.447 ppb	0.336 ppb	1,350.871 ppb	5,818.950 ppb	0.920 ppb	0.693 ppb	0.462 ppb	4.235 ppb	133.051 %
Concentration per Run 3	0.456 ppb	0.380 ppb	1,339.683 ppb	5,778.267 ppb	0.881 ppb	0.715 ppb	0.417 ppb	4.304 ppb	140.173 %
Concentration RSD	12.1 %	14.5 %	1.2 %	0.6 %	3.9 %	2.9 %	7.3 %	1.5 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.452 ppb	0.186 ppb	317.360 ppb	4.175 ppb	159.387 %	0.011 ppb	0.004 ppb	190.136 %	0.089 ppb
Concentration per Run 1	2.381 ppb	0.143 ppb	315.154 ppb	4.318 ppb	151.851 %	0.009 ppb	0.005 ppb	180.021 %	0.090 ppb
Concentration per Run 2	2.530 ppb	0.225 ppb	325.629 ppb	3.993 ppb	157.154 %	0.011 ppb	0.003 ppb	193.409 %	0.086 ppb
Concentration per Run 3	2.446 ppb	0.189 ppb	311.297 ppb	4.214 ppb	169.156 %	0.014 ppb	0.002 ppb	196.977 %	0.092 ppb
Concentration RSD	3.1 %	22.0 %	2.3 %	4.0 %	5.6 %	21.0 %	44.9 %	4.7 %	3.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	77.680 ppb	209.288 %	215.925 %	0.032 ppb	0.636 ppb	162.538 %
Concentration per Run 1	79.388 ppb	198.910 %	205.633 %	0.024 ppb	0.646 ppb	150.846 %
Concentration per Run 2	77.365 ppb	208.832 %	216.159 %	0.036 ppb	0.627 ppb	164.931 %
Concentration per Run 3	76.287 ppb	220.123 %	225.985 %	0.034 ppb	0.635 ppb	171.837 %
Concentration RSD	2.0 %	5.1 %	4.7 %	20.0 %	1.6 %	6.6 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 26 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1809695-6D50 SPLP-6020T Rack 1
 Analysis started at: 8/1/2023 10:20:18 AM Vial 7

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	282.808 %	192.261 %	0.016 ppb	20.562 ppb	46.490 ppb	2.039 ppb	110.518 ppb	777.769 ppb	218.088 %
Concentration per Run 1	292.777 %	196.905 %	0.017 ppb	14.991 ppb	42.664 ppb	1.516 ppb	105.058 ppb	717.737 ppb	228.426 %
Concentration per Run 2	279.787 %	191.332 %	0.021 ppb	21.868 ppb	48.042 ppb	2.445 ppb	106.970 ppb	764.911 ppb	210.748 %
Concentration per Run 3	275.860 %	188.545 %	0.009 ppb	24.826 ppb	48.764 ppb	2.156 ppb	119.524 ppb	850.658 ppb	215.091 %
Concentration RSD	3.1 %	2.2 %	37.8 %	24.5 %	7.2 %	23.3 %	7.1 %	8.7 %	4.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.036 ppb	-0.032 ppb	-0.022 ppb	2.181 ppb	0.001 ppb	0.051 ppb	0.018 ppb	0.169 ppb	136.386 %
Concentration per Run 1	-0.053 ppb	-0.034 ppb	-0.002 ppb	2.222 ppb	0.005 ppb	0.048 ppb	0.035 ppb	0.185 ppb	135.719 %
Concentration per Run 2	-0.016 ppb	-0.037 ppb	-0.019 ppb	2.981 ppb	-0.005 ppb	0.054 ppb	0.014 ppb	0.140 ppb	131.383 %
Concentration per Run 3	-0.041 ppb	-0.023 ppb	-0.045 ppb	1.339 ppb	0.004 ppb	0.052 ppb	0.005 ppb	0.181 ppb	142.057 %
Concentration RSD	51.8 %	23.0 %	97.8 %	37.7 %	527.4 %	5.8 %	85.7 %	14.6 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.067 ppb	-0.023 ppb	7.693 ppb	0.147 ppb	180.136 %	0.017 ppb	0.041 ppb	202.193 %	0.016 ppb
Concentration per Run 1	-0.070 ppb	-0.019 ppb	7.498 ppb	0.129 ppb	172.696 %	0.017 ppb	0.044 ppb	192.933 %	0.016 ppb
Concentration per Run 2	-0.063 ppb	-0.042 ppb	7.933 ppb	0.143 ppb	176.897 %	0.016 ppb	0.040 ppb	203.601 %	0.017 ppb
Concentration per Run 3	-0.068 ppb	-0.008 ppb	7.647 ppb	0.169 ppb	190.816 %	0.018 ppb	0.038 ppb	210.044 %	0.014 ppb
Concentration RSD	5.3 %	76.9 %	2.9 %	13.7 %	5.3 %	5.1 %	7.3 %	4.3 %	9.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3.615 ppb	220.284 %	226.836 %	0.019 ppb	-0.001 ppb	192.339 %
Concentration per Run 1	3.590 ppb	211.476 %	215.020 %	0.013 ppb	-0.002 ppb	178.701 %
Concentration per Run 2	3.696 ppb	218.994 %	226.035 %	0.021 ppb	-0.004 ppb	195.145 %
Concentration per Run 3	3.559 ppb	230.381 %	239.453 %	0.023 ppb	0.001 ppb	203.170 %
Concentration RSD	2.0 %	4.3 %	5.4 %	26.9 %	193.1 %	6.5 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 27 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/1/2023 10:24:47 AM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	266.331 %	172.446 %	72.067 ppb	4,354.790 ppb	6,232.558 ppb	61.359 ppb	5,552.846 ppb	5,667.869 ppb	209.454 %
Concentration per Run 1	270.467 %	162.539 %	72.383 ppb	4,522.245 ppb	6,251.115 ppb	63.824 ppb	5,705.081 ppb	5,848.874 ppb	211.733 %
Concentration per Run 2	265.343 %	176.471 %	70.771 ppb	4,226.334 ppb	6,076.730 ppb	60.327 ppb	5,269.525 ppb	5,550.659 ppb	212.121 %
Concentration per Run 3	263.183 %	178.329 %	73.047 ppb	4,315.790 ppb	6,369.829 ppb	59.926 ppb	5,683.931 ppb	5,604.074 ppb	204.509 %
Recovery Percentage 1			120.112 %	72.580 %	103.876 %	102.265 %	92.547 %	94.464 %	
Concentration RSD	1.4 %	5.0 %	1.6 %	3.5 %	2.4 %	3.5 %	4.4 %	2.8 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	53.916 ppb	59.190 ppb	59.264 ppb	5,933.894 ppb	63.346 ppb	61.970 ppb	66.560 ppb	68.889 ppb	133.711 %
Concentration per Run 1	56.307 ppb	61.807 ppb	61.722 ppb	6,138.619 ppb	64.995 ppb	63.952 ppb	69.068 ppb	69.909 ppb	126.846 %
Concentration per Run 2	50.494 ppb	56.195 ppb	56.679 ppb	5,695.901 ppb	60.594 ppb	61.298 ppb	65.094 ppb	67.928 ppb	140.725 %
Concentration per Run 3	54.948 ppb	59.568 ppb	59.391 ppb	5,967.164 ppb	64.450 ppb	60.661 ppb	65.519 ppb	68.828 ppb	133.563 %
Recovery Percentage 1	89.861 %	98.650 %	98.773 %	98.898 %	105.577 %	103.284 %	110.934 %	114.814 %	
Concentration RSD	5.6 %	4.8 %	4.3 %	3.8 %	3.8 %	2.8 %	3.3 %	1.4 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.500 ppb	107.429 ppb	73.651 ppb	58.342 ppb	171.121 %	63.124 ppb	59.693 ppb	194.560 %	40.874 ppb
Concentration per Run 1	61.880 ppb	109.380 ppb	74.918 ppb	59.040 ppb	162.678 %	63.889 ppb	59.945 ppb	187.206 %	40.849 ppb
Concentration per Run 2	57.710 ppb	104.725 ppb	71.866 ppb	58.693 ppb	175.539 %	62.178 ppb	59.286 ppb	196.640 %	40.863 ppb
Concentration per Run 3	61.912 ppb	108.182 ppb	74.169 ppb	57.293 ppb	175.146 %	63.307 ppb	59.849 ppb	199.834 %	40.912 ppb
Recovery Percentage 1	100.834 %	179.048 %	122.751 %	97.236 %		105.207 %	99.488 %		68.124 %
Concentration RSD	4.0 %	2.3 %	2.2 %	1.6 %	4.3 %	1.4 %	0.6 %	3.4 %	0.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	51.529 ppb	217.110 %	223.218 %	68.666 ppb	64.674 ppb	185.646 %
Concentration per Run 1	51.451 ppb	203.146 %	207.120 %	67.433 ppb	62.626 ppb	173.230 %
Concentration per Run 2	51.494 ppb	222.296 %	228.799 %	68.838 ppb	65.260 ppb	187.694 %
Concentration per Run 3	51.643 ppb	225.888 %	233.735 %	69.727 ppb	66.137 ppb	196.013 %
Recovery Percentage 1	85.882 %			114.443 %	107.791 %	
Concentration RSD	0.2 %	5.6 %	6.3 %	1.7 %	2.8 %	6.2 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 28 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/1/2023 10:29:20 AM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	267.544 %	175.233 %	0.031 ppb	-70.174 ppb	-0.367 ppb	-1.103 ppb	-32.935 ppb	-6.018 ppb	201.578 %
Concentration per Run 1	270.260 %	180.186 %	0.028 ppb	-70.814 ppb	-0.107 ppb	-1.081 ppb	-32.024 ppb	-7.535 ppb	209.881 %
Concentration per Run 2	270.731 %	160.681 %	0.030 ppb	-69.501 ppb	-0.416 ppb	-1.075 ppb	-31.141 ppb	-4.901 ppb	198.308 %
Concentration per Run 3	261.640 %	184.830 %	0.036 ppb	-70.205 ppb	-0.579 ppb	-1.152 ppb	-35.640 ppb	-5.618 ppb	196.546 %
Recovery Percentage 1			6.285 %	-70.174 %	-0.525 %	-11.027 %	-32.935 %	-6.018 %	
Concentration RSD	1.9 %	7.3 %	14.3 %	0.9 %	65.2 %	3.9 %	7.2 %	22.6 %	3.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.058 ppb	-0.048 ppb	-0.001 ppb	4.228 ppb	-0.008 ppb	0.061 ppb	0.004 ppb	0.189 ppb	124.957 %
Concentration per Run 1	-0.070 ppb	-0.047 ppb	0.000 ppb	4.761 ppb	-0.008 ppb	0.064 ppb	0.012 ppb	0.177 ppb	121.777 %
Concentration per Run 2	-0.036 ppb	-0.046 ppb	0.016 ppb	3.896 ppb	-0.008 ppb	0.068 ppb	0.009 ppb	0.201 ppb	131.517 %
Concentration per Run 3	-0.068 ppb	-0.052 ppb	-0.017 ppb	4.026 ppb	-0.008 ppb	0.051 ppb	-0.010 ppb	0.188 ppb	121.577 %
Recovery Percentage 1	-1.154 %	-4.814 %	-0.052 %	8.456 %	-1.586 %	3.061 %	0.388 %	3.778 %	
Concentration RSD	33.1 %	7.1 %	3,218.1 %	11.0 %	6.3 %	14.9 %	302.6 %	6.3 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.056 ppb	0.008 ppb	0.001 ppb	0.123 ppb	163.948 %	0.014 ppb	0.000 ppb	181.577 %	0.009 ppb
Concentration per Run 1	-0.036 ppb	0.020 ppb	0.001 ppb	0.146 ppb	162.047 %	0.014 ppb	0.000 ppb	175.610 %	0.010 ppb
Concentration per Run 2	-0.058 ppb	0.017 ppb	-0.001 ppb	0.104 ppb	166.376 %	0.014 ppb	0.000 ppb	189.818 %	0.011 ppb
Concentration per Run 3	-0.073 ppb	-0.014 ppb	0.003 ppb	0.120 ppb	163.422 %	0.014 ppb	0.000 ppb	179.302 %	0.006 ppb
Recovery Percentage 1	-11.140 %	0.158 %	0.008 %	6.167 %		3.513 %	0.041 %		0.224 %
Concentration RSD	32.5 %	238.7 %	302.3 %	17.1 %	1.3 %	2.0 %	403.4 %	4.1 %	27.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.004 ppb	201.995 %	209.472 %	0.257 ppb	-0.003 ppb	180.496 %
Concentration per Run 1	-0.008 ppb	195.548 %	201.581 %	0.248 ppb	-0.005 ppb	171.243 %
Concentration per Run 2	0.008 ppb	206.001 %	213.564 %	0.289 ppb	-0.002 ppb	185.791 %
Concentration per Run 3	0.012 ppb	204.435 %	213.272 %	0.234 ppb	-0.004 ppb	184.455 %
Recovery Percentage 1	0.861 %			25.702 %	-0.348 %	
Concentration RSD	248.1 %	2.8 %	3.3 %	11.1 %	38.5 %	4.5 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 29 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/1/2023 11:17:43 AM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	288.888 %	204.335 %	51.485 ppb	4,203.121 ppb	4,358.237 ppb	44.228 ppb	4,347.679 ppb	6,129.101 ppb	218.616 %
Concentration per Run 1	304.103 %	195.047 %	50.638 ppb	4,101.116 ppb	4,313.651 ppb	43.427 ppb	4,387.336 ppb	6,167.225 ppb	240.491 %
Concentration per Run 2	285.549 %	207.121 %	52.784 ppb	4,513.123 ppb	4,445.705 ppb	45.402 ppb	4,323.957 ppb	6,074.624 ppb	205.068 %
Concentration per Run 3	277.012 %	210.837 %	51.033 ppb	3,995.125 ppb	4,315.356 ppb	43.853 ppb	4,331.744 ppb	6,145.454 ppb	210.288 %
Recovery Percentage 1			85.808 %	70.052 %	72.637 %	73.713 %	72.461 %	102.152 %	
Concentration RSD	4.8 %	4.0 %	2.2 %	6.5 %	1.7 %	2.3 %	0.8 %	0.8 %	8.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	51.130 ppb	49.624 ppb	55.191 ppb	5,509.965 ppb	59.823 ppb	59.303 ppb	63.680 ppb	66.209 ppb	137.048 %
Concentration per Run 1	51.614 ppb	48.605 ppb	53.335 ppb	5,479.365 ppb	60.256 ppb	60.463 ppb	64.167 ppb	66.418 ppb	131.652 %
Concentration per Run 2	52.020 ppb	51.214 ppb	57.479 ppb	5,678.908 ppb	60.859 ppb	60.324 ppb	65.701 ppb	66.581 ppb	132.617 %
Concentration per Run 3	49.757 ppb	49.054 ppb	54.758 ppb	5,371.621 ppb	58.355 ppb	57.122 ppb	61.173 ppb	65.627 ppb	146.876 %
Recovery Percentage 1	85.217 %	82.707 %	91.985 %	91.833 %	99.705 %	98.839 %	106.134 %	110.348 %	
Concentration RSD	2.4 %	2.8 %	3.8 %	2.8 %	2.2 %	3.2 %	3.6 %	0.8 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.323 ppb	101.445 ppb	72.198 ppb	58.930 ppb	178.309 %	63.642 ppb	59.769 ppb	199.433 %	41.570 ppb
Concentration per Run 1	58.801 ppb	101.125 ppb	70.549 ppb	57.849 ppb	173.757 %	63.573 ppb	59.798 ppb	186.241 %	41.395 ppb
Concentration per Run 2	59.128 ppb	102.515 ppb	74.613 ppb	60.070 ppb	176.820 %	62.867 ppb	59.337 ppb	207.115 %	41.879 ppb
Concentration per Run 3	57.039 ppb	100.695 ppb	71.431 ppb	58.872 ppb	184.351 %	64.485 ppb	60.171 ppb	204.942 %	41.436 ppb
Recovery Percentage 1	97.205 %	169.076 %	120.330 %	98.217 %		106.070 %	99.614 %		69.283 %
Concentration RSD	1.9 %	0.9 %	3.0 %	1.9 %	3.1 %	1.3 %	0.7 %	5.8 %	0.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	51.857 ppb	230.412 %	240.840 %	69.747 ppb	66.837 ppb	203.845 %
Concentration per Run 1	51.851 ppb	215.137 %	223.757 %	68.815 ppb	66.786 ppb	190.273 %
Concentration per Run 2	51.809 ppb	237.641 %	249.106 %	69.311 ppb	66.889 ppb	211.195 %
Concentration per Run 3	51.910 ppb	238.456 %	249.656 %	71.113 ppb	66.837 ppb	210.066 %
Recovery Percentage 1	86.428 %			116.244 %	111.396 %	
Concentration RSD	0.1 %	5.7 %	6.1 %	1.7 %	0.1 %	5.8 %

Alpha ICPMSQ2 Data

8/1/2023 2:09:22 PM



Analysis index: 30 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/1/2023 11:22:15 AM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	280.537 %	193.809 %	0.025 ppb	-70.650 ppb	-0.470 ppb	-0.974 ppb	-32.449 ppb	-4.357 ppb	203.317 %
Concentration per Run 1	288.098 %	186.688 %	0.022 ppb	-69.874 ppb	-0.582 ppb	-0.974 ppb	-31.092 ppb	-3.334 ppb	204.917 %
Concentration per Run 2	277.920 %	204.335 %	0.028 ppb	-71.483 ppb	-0.301 ppb	-0.978 ppb	-33.627 ppb	-3.804 ppb	205.716 %
Concentration per Run 3	275.594 %	190.403 %	0.024 ppb	-70.593 ppb	-0.525 ppb	-0.970 ppb	-32.627 ppb	-5.933 ppb	199.317 %
Recovery Percentage 1			4.941 %	-70.650 %	-0.671 %	-9.742 %	-32.449 %	-4.357 %	
Concentration RSD	2.4 %	4.8 %	14.1 %	1.1 %	31.6 %	0.4 %	3.9 %	31.8 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.081 ppb	-0.044 ppb	-0.029 ppb	4.320 ppb	-0.006 ppb	0.070 ppb	0.031 ppb	0.396 ppb	132.490 %
Concentration per Run 1	-0.102 ppb	-0.046 ppb	-0.020 ppb	4.370 ppb	-0.003 ppb	0.077 ppb	0.014 ppb	0.348 ppb	127.247 %
Concentration per Run 2	-0.089 ppb	-0.045 ppb	-0.030 ppb	4.086 ppb	-0.005 ppb	0.067 ppb	0.028 ppb	0.453 ppb	134.051 %
Concentration per Run 3	-0.052 ppb	-0.042 ppb	-0.036 ppb	4.505 ppb	-0.010 ppb	0.066 ppb	0.053 ppb	0.386 ppb	136.170 %
Recovery Percentage 1	-1.619 %	-4.415 %	-2.865 %	8.640 %	-1.116 %	3.520 %	3.144 %	7.914 %	
Concentration RSD	32.4 %	4.5 %	27.7 %	5.0 %	65.7 %	8.7 %	63.1 %	13.5 %	3.5 %

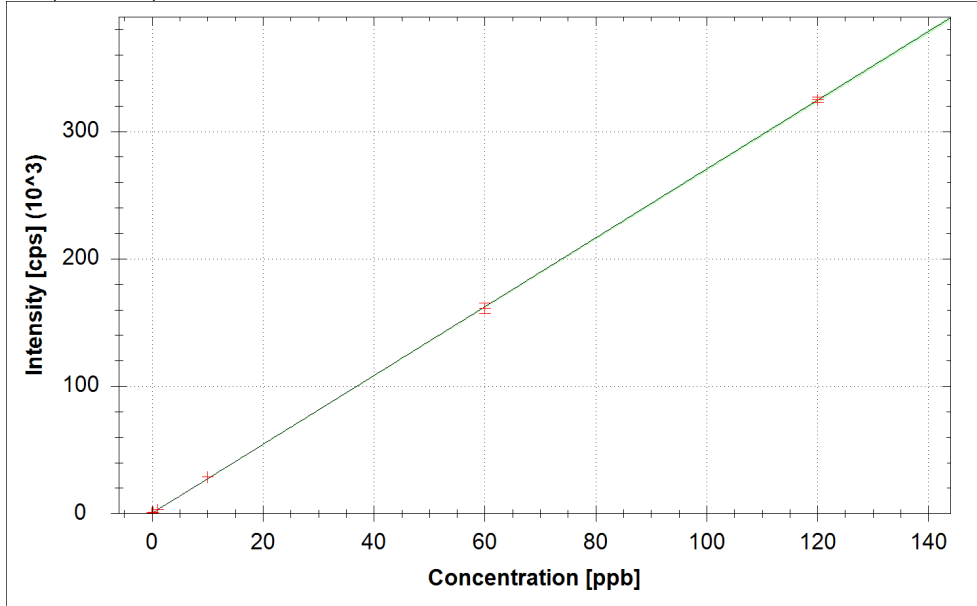
Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.052 ppb	0.019 ppb	0.001 ppb	0.133 ppb	173.686 %	0.009 ppb	0.001 ppb	193.706 %	0.009 ppb
Concentration per Run 1	-0.040 ppb	0.018 ppb	0.002 ppb	0.145 ppb	172.789 %	0.011 ppb	0.000 ppb	190.958 %	0.008 ppb
Concentration per Run 2	-0.054 ppb	0.007 ppb	-0.002 ppb	0.142 ppb	177.878 %	0.010 ppb	0.001 ppb	195.735 %	0.008 ppb
Concentration per Run 3	-0.062 ppb	0.031 ppb	0.002 ppb	0.112 ppb	170.389 %	0.006 ppb	0.000 ppb	194.425 %	0.010 ppb
Recovery Percentage 1	-10.401 %	0.374 %	0.006 %	6.645 %		2.227 %	0.350 %		0.216 %
Concentration RSD	21.3 %	64.5 %	405.6 %	13.7 %	2.2 %	24.0 %	80.0 %	1.3 %	11.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.004 ppb	218.610 %	227.858 %	0.274 ppb	-0.001 ppb	201.401 %
Concentration per Run 1	-0.011 ppb	212.272 %	219.084 %	0.277 ppb	0.000 ppb	193.193 %
Concentration per Run 2	-0.010 ppb	226.035 %	236.101 %	0.301 ppb	-0.001 ppb	206.550 %
Concentration per Run 3	0.008 ppb	217.523 %	228.389 %	0.243 ppb	-0.002 ppb	204.461 %
Recovery Percentage 1	-0.874 %			27.360 %	-0.113 %	
Concentration RSD	243.4 %	3.2 %	3.7 %	10.6 %	71.4 %	3.6 %



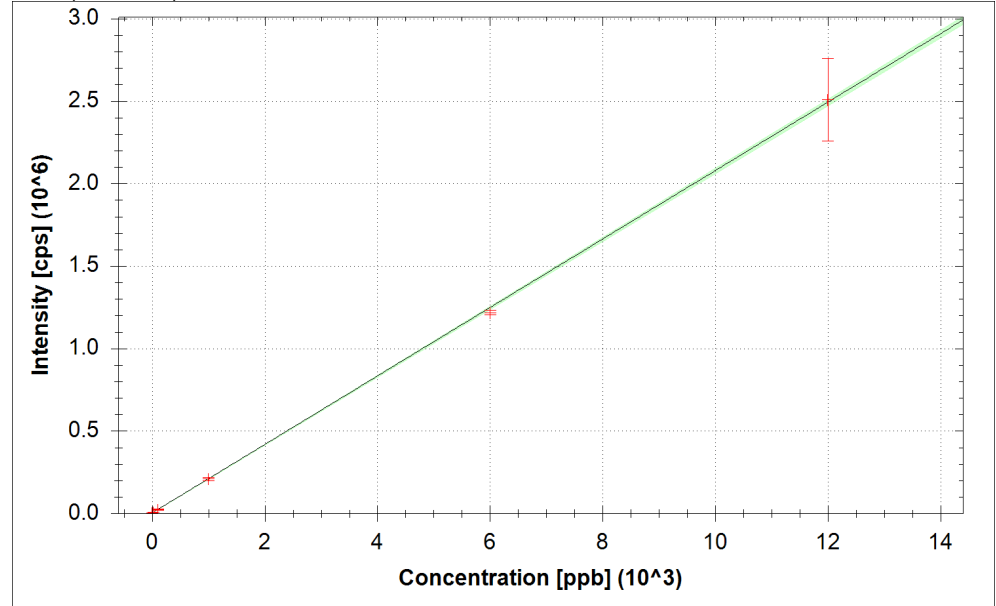
Calibration Curves:

9Be (STD AGD)



$f(x) = 2701.3237 \cdot x + 181.3133$
 $R^2 = 0.9999$
BEC = 0.067 ppb
LoD = 0.0043 ppb

23Na (KED AGD)



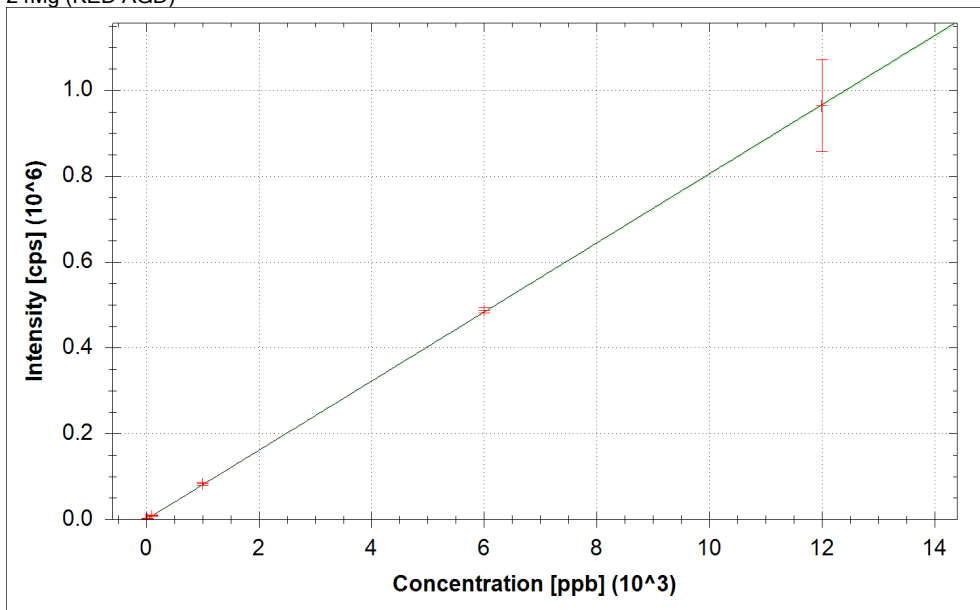
$f(x) = 207.4572 \cdot x + 3481.8811$
 $R^2 = 0.9998$
BEC = 16.784 ppb
LoD = 6.1075 ppb

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM

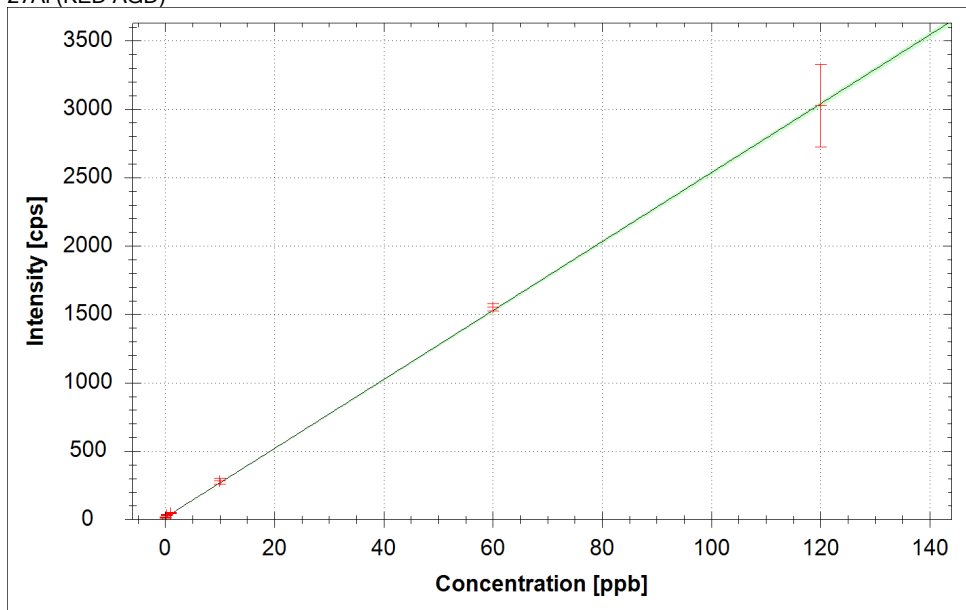


24Mg (KED AGD)



$f(x) = 80.5080 \cdot x + 51.2348$
 $R^2 = 1.0000$
BEC = 0.636 ppb
LoD = 0.1008 ppb

27Al (KED AGD)



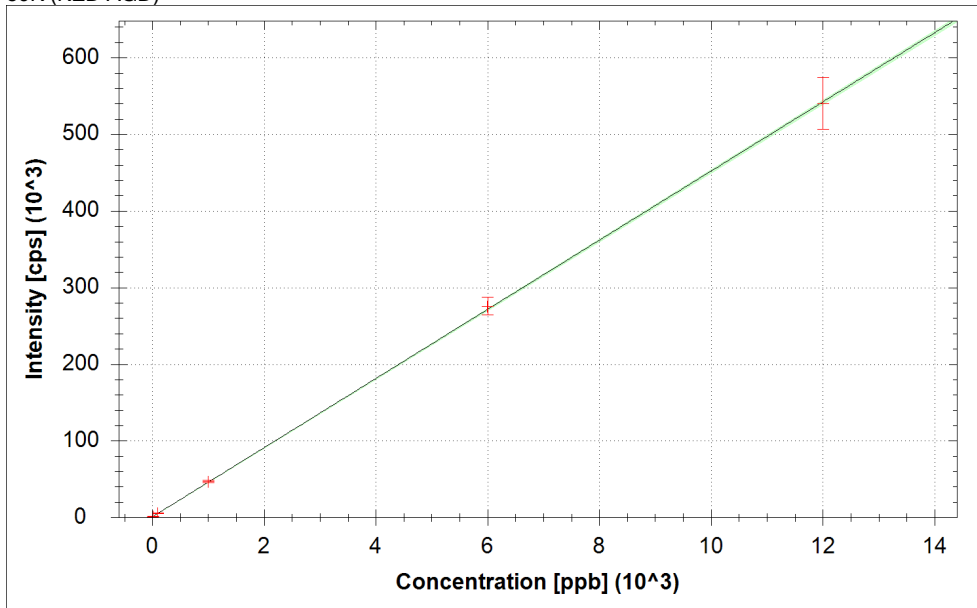
$f(x) = 25.1972 \cdot x + 14.9761$
 $R^2 = 0.9999$
BEC = 0.594 ppb
LoD = 0.6000 ppb

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM

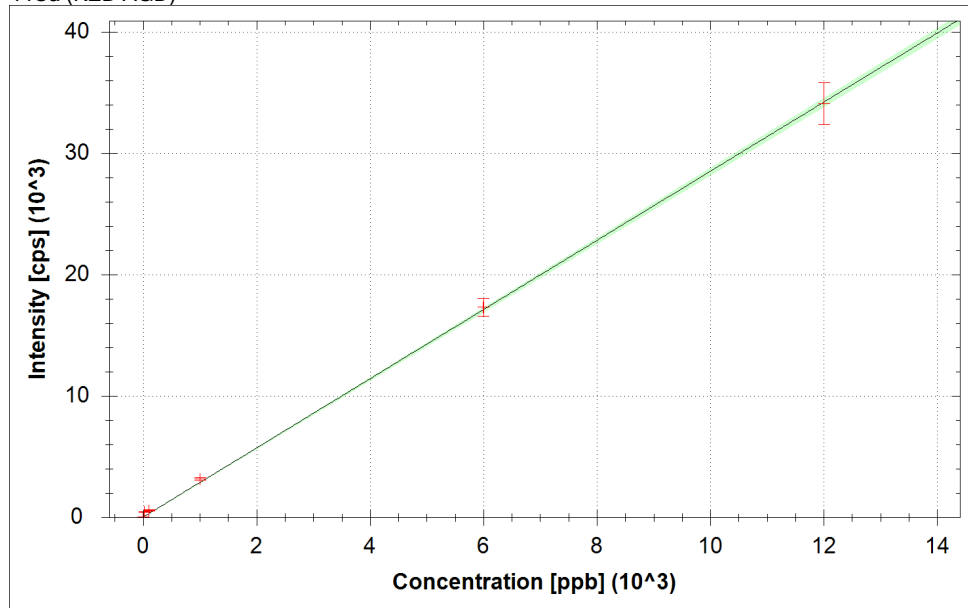


39K (KED AGD)



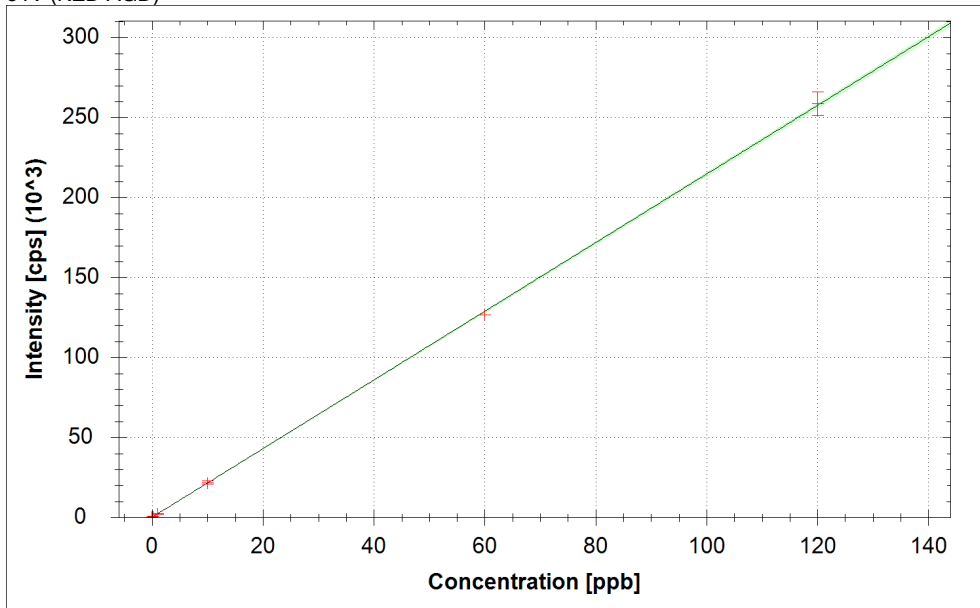
$f(x) = 45.1121 \cdot x + 811.6577$
 $R^2 = 0.9999$
BEC = 17.992 ppb
LoD = 4.4315 ppb

44Ca (KED AGD)



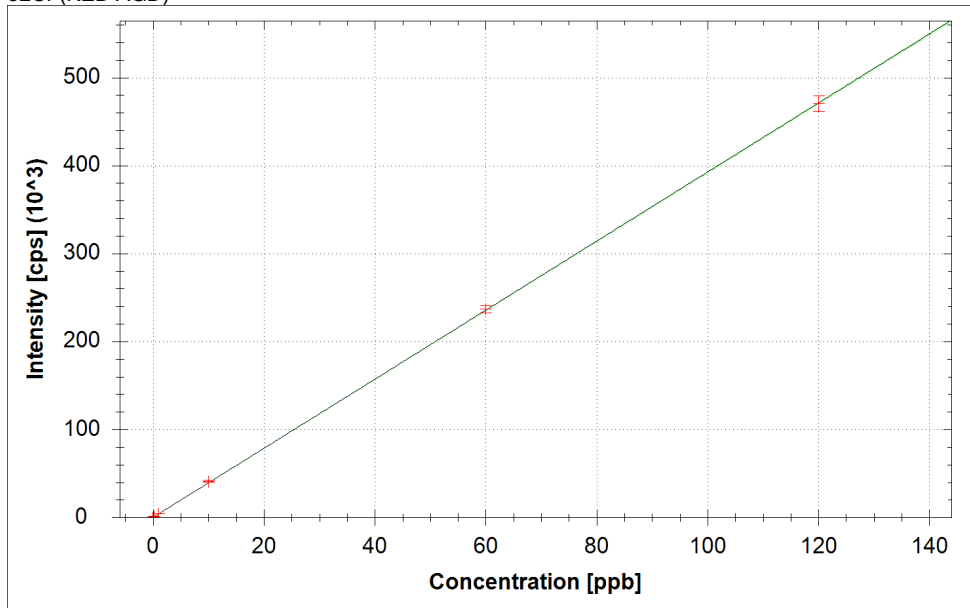
$f(x) = 2.8495 \cdot x + 28.5587$
 $R^2 = 0.9996$
BEC = 10.022 ppb
LoD = 7.7847 ppb

51V (KED AGD)



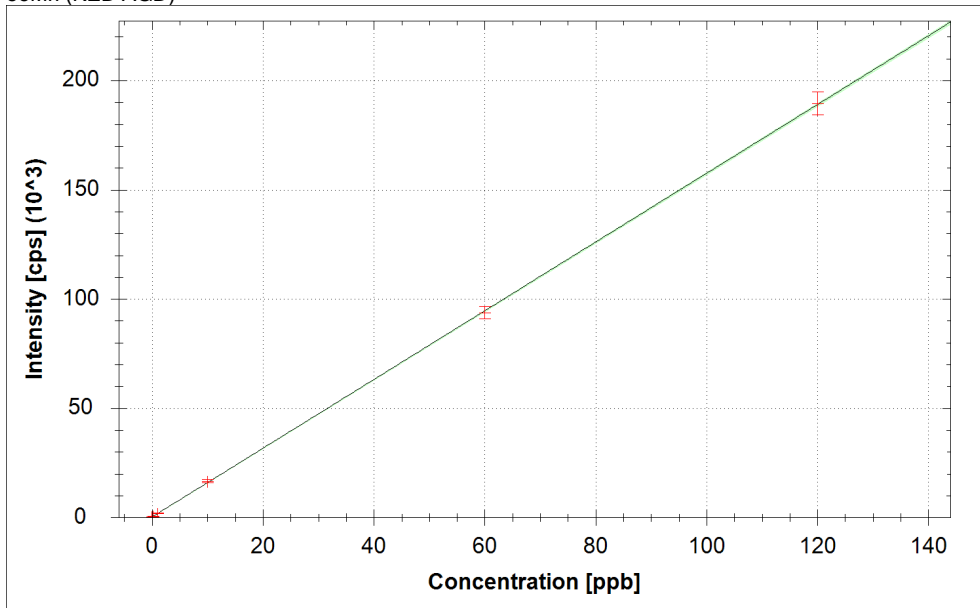
$f(x) = 2144.6717 \cdot x + 138.2100$
 $R^2 = 0.9999$
BEC = 0.064 ppb
LoD = 0.0262 ppb

52Cr (KED AGD)



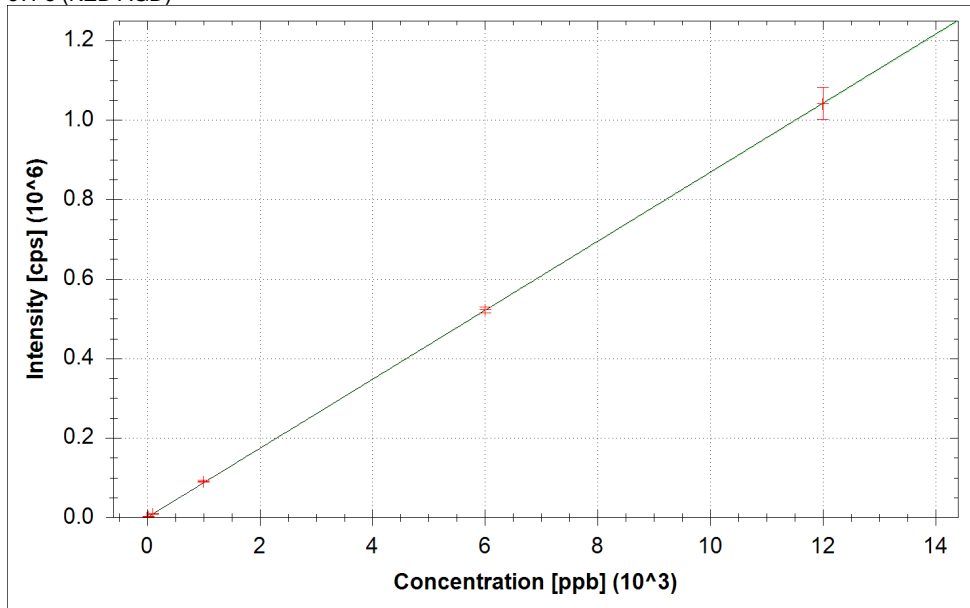
$f(x) = 3924.2542 \cdot x + 135.7931$
 $R^2 = 1.0000$
BEC = 0.035 ppb
LoD = 0.0338 ppb

55Mn (KED AGD)



$f(x) = 1572.9163 \cdot x + 230.2697$
 $R^2 = 1.0000$
BEC = 0.146 ppb
LoD = 0.1399 ppb

57Fe (KED AGD)



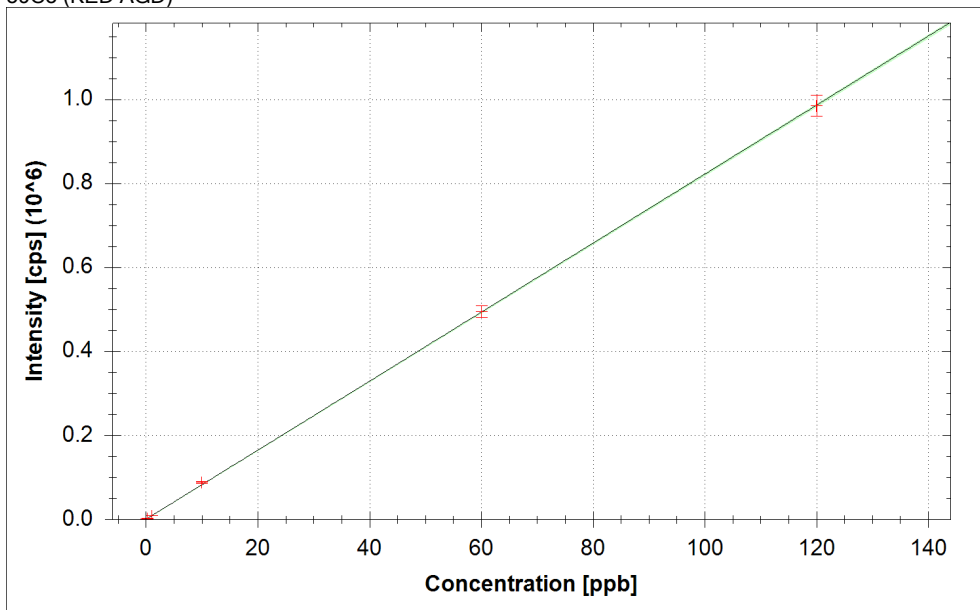
$f(x) = 86.8140 \cdot x + 169.8868$
 $R^2 = 1.0000$
BEC = 1.957 ppb
LoD = 1.0513 ppb

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM

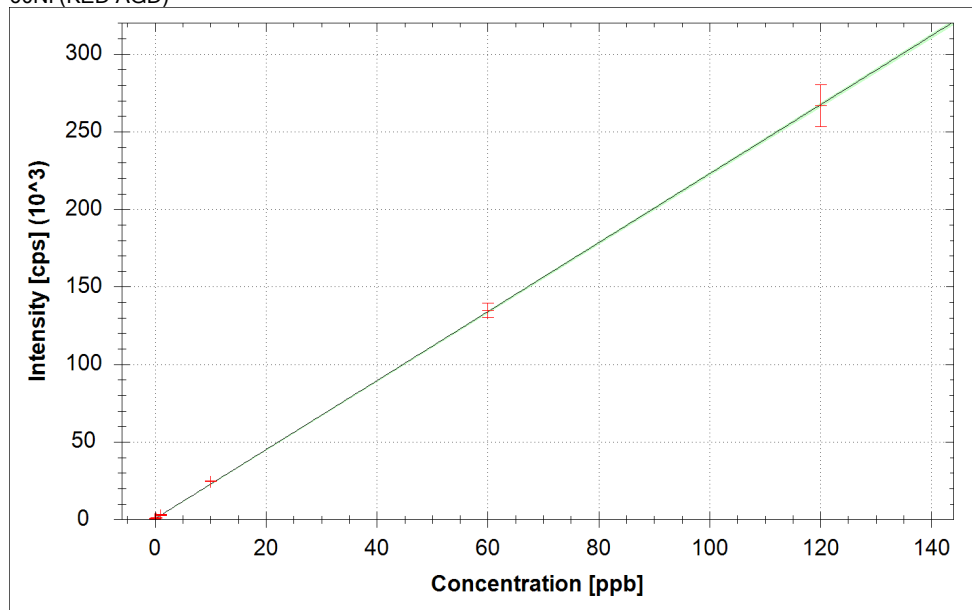


59Co (KED AGD)



$f(x) = 8211.4815 \cdot x + 502.2516$
 $R^2 = 1.0000$
BEC = 0.061 ppb
LoD = 0.0020 ppb

60Ni (KED AGD)



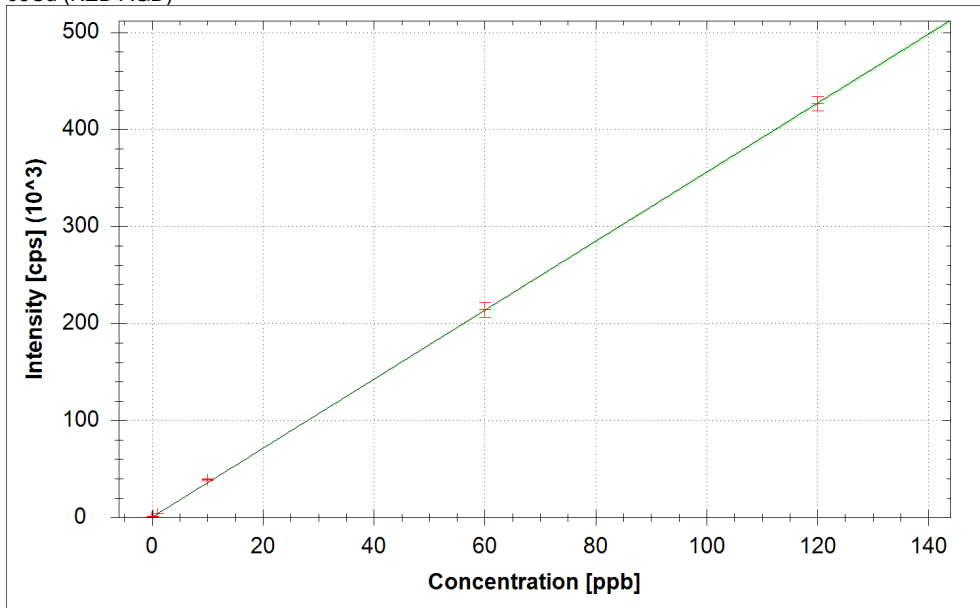
$f(x) = 2223.7831 \cdot x + 489.8771$
 $R^2 = 0.9999$
BEC = 0.220 ppb
LoD = 0.0498 ppb

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM

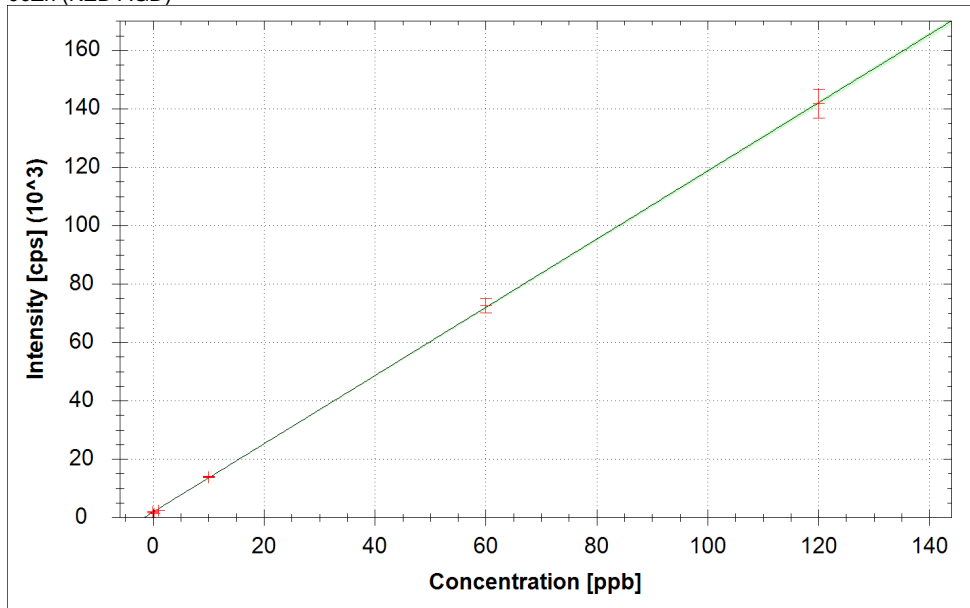


65Cu (KED AGD)



$f(x) = 3555.6810 \cdot x + 168.1461$
 $R^2 = 0.9999$
BEC = 0.047 ppb
LoD = 0.0226 ppb

66Zn (KED AGD)



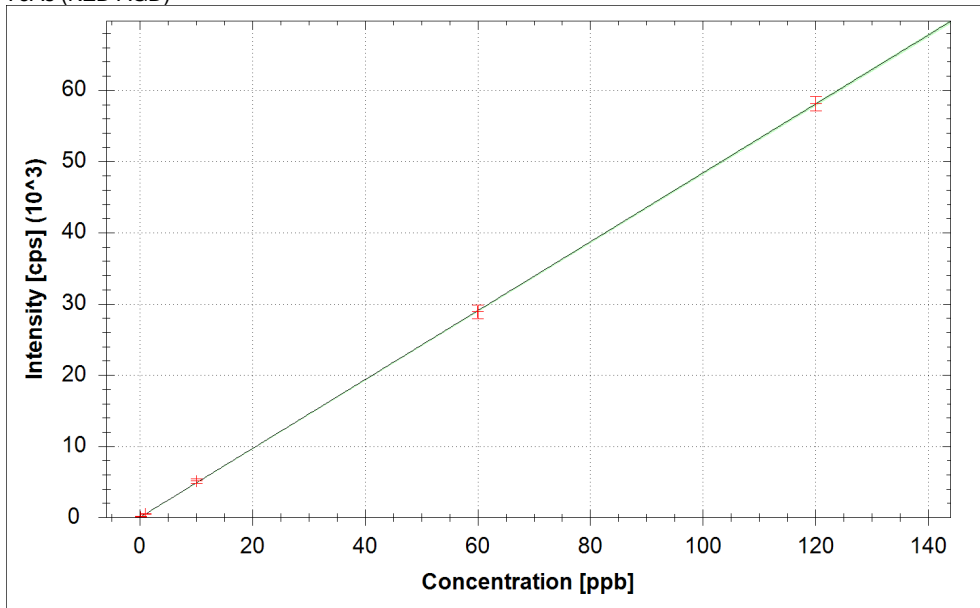
$f(x) = 1167.9924 \cdot x + 1854.9475$
 $R^2 = 0.9999$
BEC = 1.588 ppb
LoD = 0.1100 ppb

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM

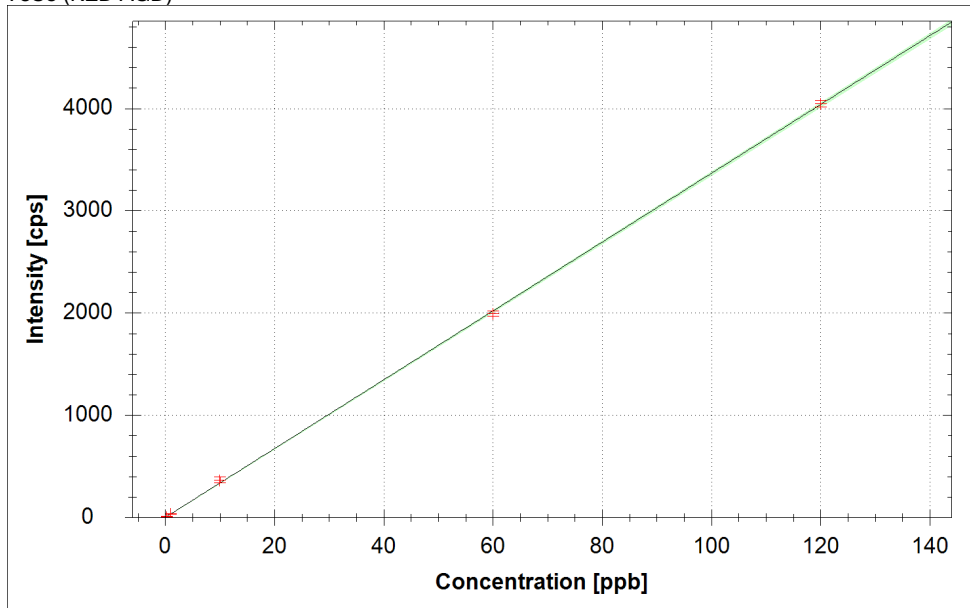


75As (KED AGD)



$f(x) = 483.6192 \cdot x + 9.4169$
 $R^2 = 1.0000$
BEC = 0.019 ppb
LoD = 0.0155 ppb

78Se (KED AGD)



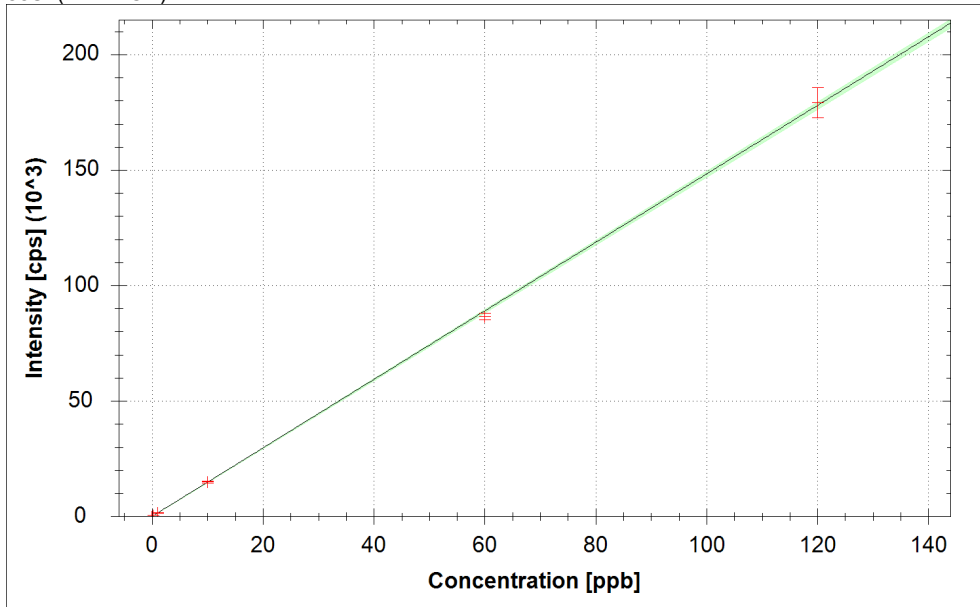
$f(x) = 33.6415 \cdot x + 0.1374$
 $R^2 = 0.9999$
BEC = 0.004 ppb
LoD = 0.0266 ppb

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM

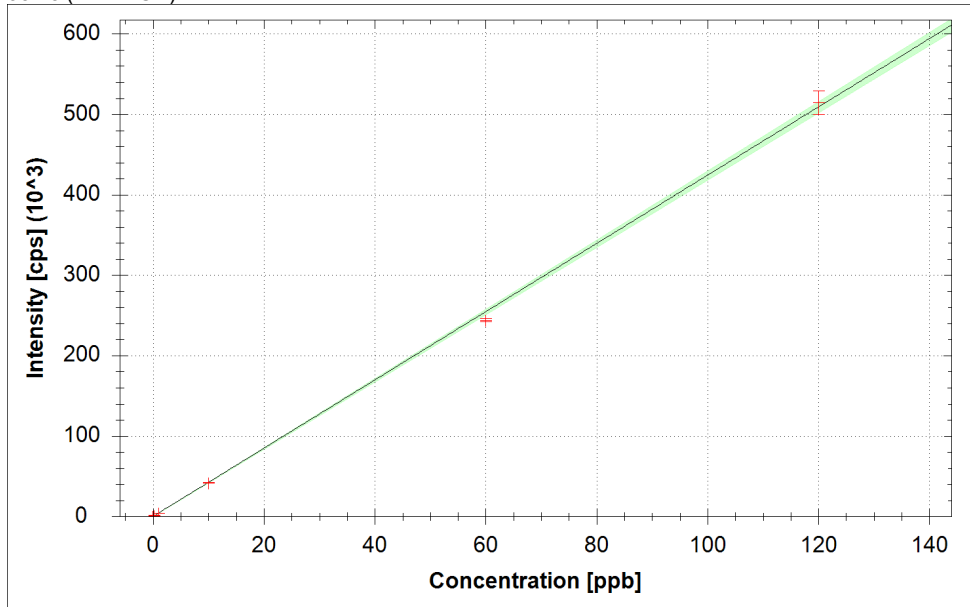


88Sr (KED AGD)



$f(x) = 1482.5959 \cdot x + 22.2657$
 $R^2 = 0.9997$
BEC = 0.015 ppb
LoD = 0.0001 ppb

95Mo (KED AGD)



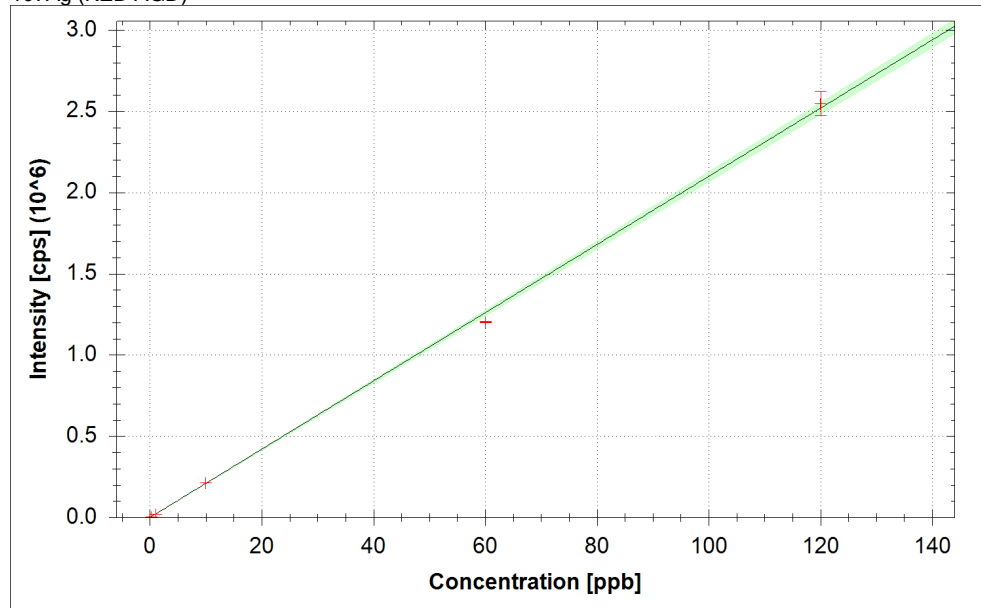
$f(x) = 4242.0532 \cdot x + 62.1407$
 $R^2 = 0.9993$
BEC = 0.015 ppb
LoD = 0.0116 ppb

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM

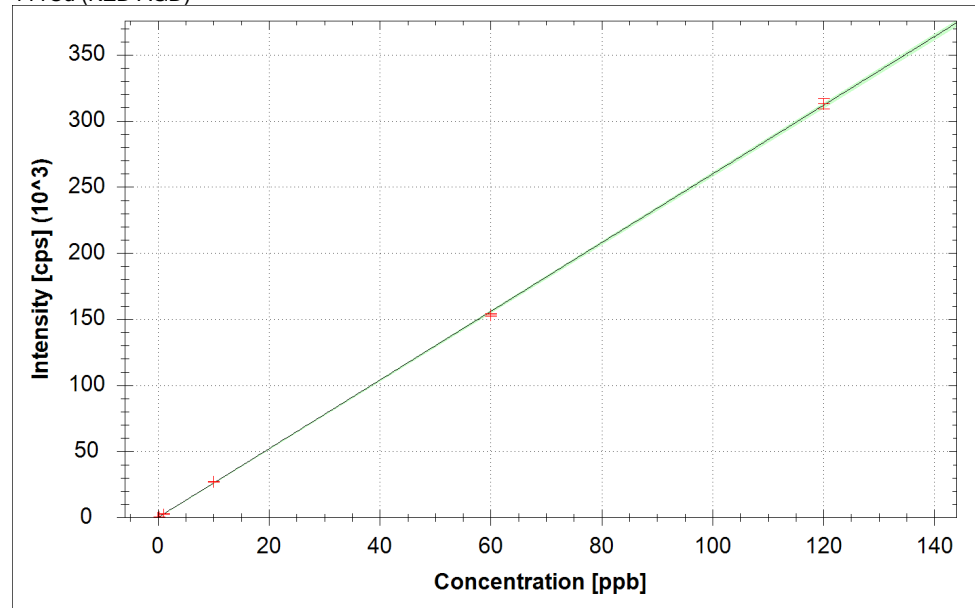


107Ag (KED AGD)



$f(x) = 20989.0353 \cdot x + 55.2542$
 $R^2 = 0.9993$
BEC = 0.003 ppb
LoD = 0.0020 ppb

111Cd (KED AGD)



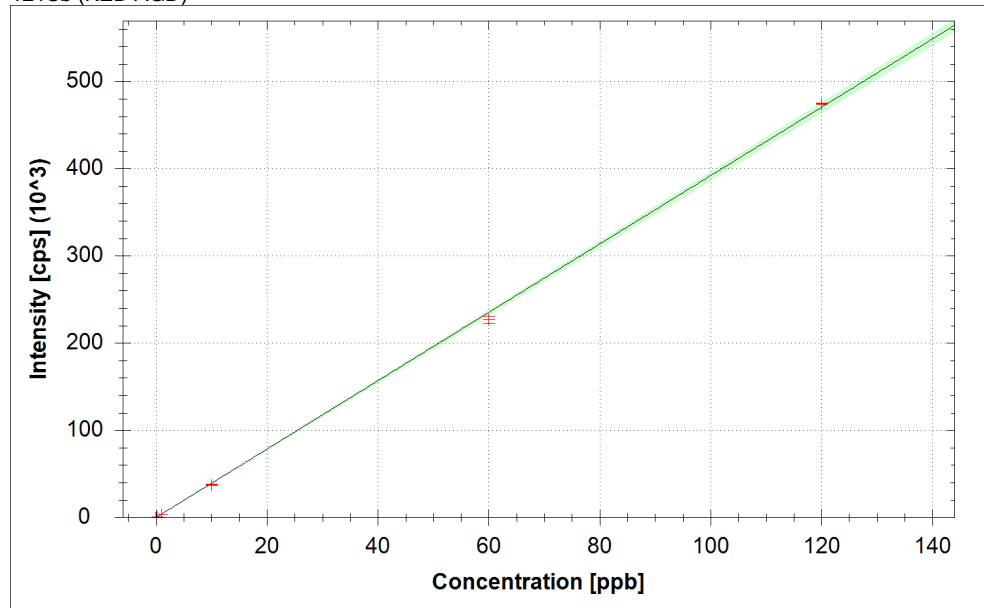
$f(x) = 2598.0809 \cdot x + 1.7588$
 $R^2 = 0.9999$
BEC = 0.001 ppb
LoD = 0.0008 ppb

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM

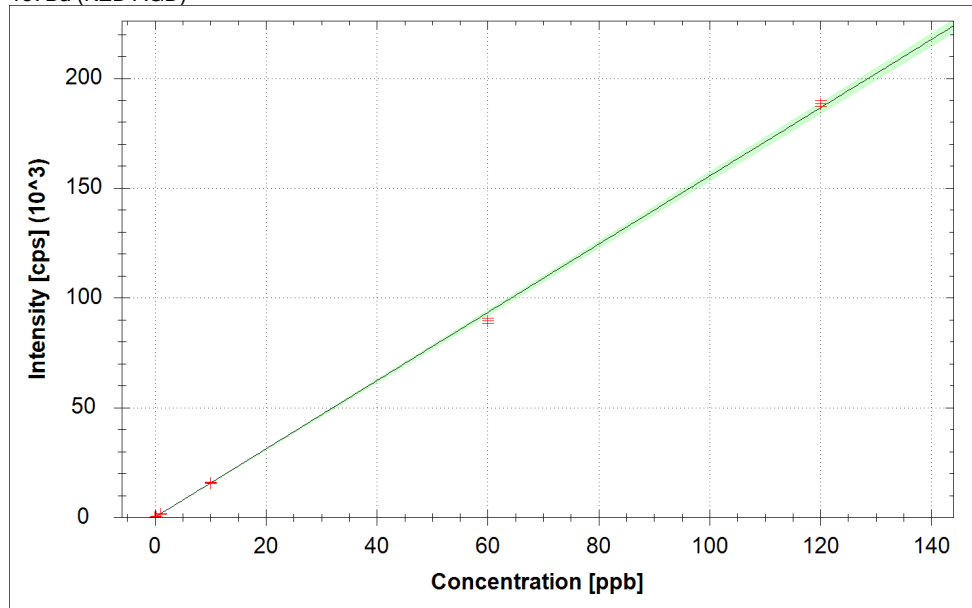


121Sb (KED AGD)



$f(x) = 3917.8537 \cdot x + 21.9815$
 $R^2 = 0.9995$
BEC = 0.006 ppb
LoD = 0.0046 ppb

137Ba (KED AGD)



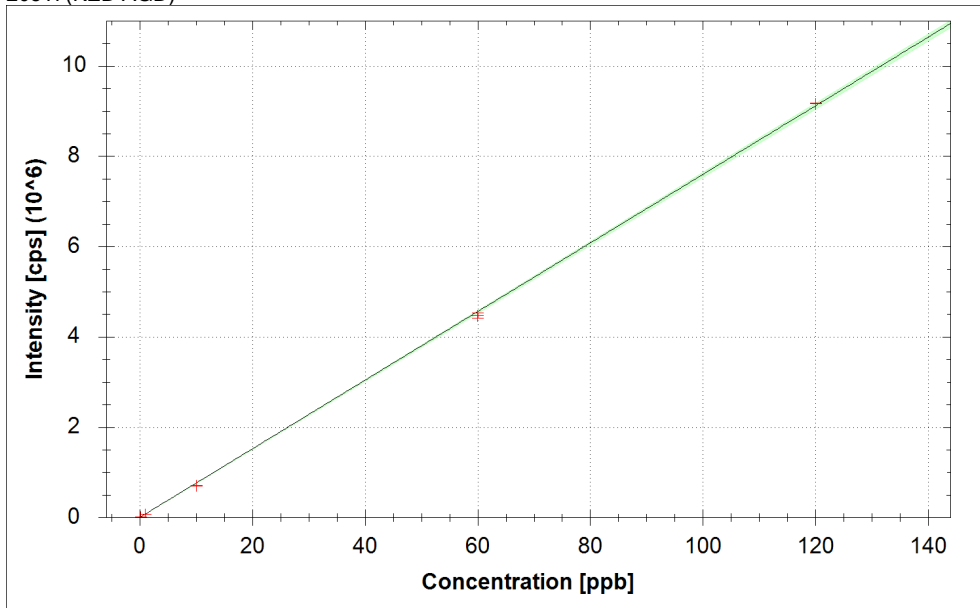
$f(x) = 1553.2848 \cdot x + 124.0807$
 $R^2 = 0.9994$
BEC = 0.080 ppb
LoD = 0.0828 ppb

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM

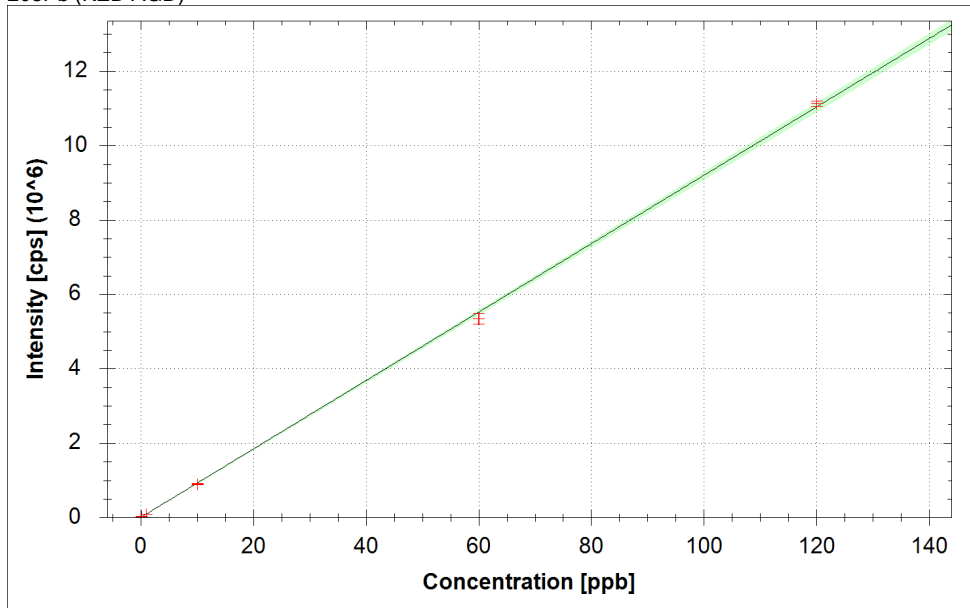


205TI (KED AGD)



$f(x) = 75932.6520 \cdot x + 2258.4506$
 $R^2 = 0.9998$
BEC = 0.030 ppb
LoD = 0.0193 ppb

208Pb (KED AGD)



$f(x) = 91930.5562 \cdot x + 3846.2868$
 $R^2 = 0.9996$
BEC = 0.042 ppb
LoD = 0.0060 ppb

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Standards:

Analysis Index: 4
Analysis Name: 0.2/20 Cal
Analysis Type: STD
Analysis Started at: 8/1/2023 11:41:11 AM
Total Dilution Factor: 50000
Rack: 0
Vial: 2

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	104.807 %	2.8 %	
6Li (KED AGD)	96.422 %	3.7 %	
9Be (STD AGD)	0.219 ppb	3.7 %	0.200 ppb
23Na (KED AGD)	17.767 ppb	8.7 %	20.000 ppb
24Mg (KED AGD)	21.901 ppb	9.9 %	20.000 ppb
27Al (KED AGD)	0.658 ppb	32.9 %	0.200 ppb
39K (KED AGD)	19.468 ppb	9.6 %	20.000 ppb
44Ca (KED AGD)	153.308 ppb	6.3 %	20.000 ppb
45Sc (STD AGD)	110.914 %	2.3 %	
51V (KED AGD)	0.234 ppb	4.7 %	0.200 ppb
52Cr (KED AGD)	0.222 ppb	9.6 %	0.200 ppb
55Mn (KED AGD)	0.118 ppb	29.7 %	0.200 ppb
57Fe (KED AGD)	22.234 ppb	5.2 %	20.000 ppb
59Co (KED AGD)	0.189 ppb	10.7 %	0.200 ppb
60Ni (KED AGD)	0.189 ppb	19.2 %	0.200 ppb
65Cu (KED AGD)	0.249 ppb	11.7 %	0.200 ppb
66Zn (KED AGD)	-0.515 ppb	6.7 %	0.200 ppb
74Ge (KED AGD)	102.349 %	3.9 %	
75As (KED AGD)	0.210 ppb	6.9 %	0.200 ppb
78Se (KED AGD)	0.221 ppb	31.2 %	0.200 ppb
88Sr (KED AGD)	0.248 ppb	3.7 %	0.200 ppb
95Mo (KED AGD)	0.210 ppb	8.5 %	0.200 ppb
103Rh (KED AGD)	101.978 %	5.8 %	
107Ag (KED AGD)	0.197 ppb	0.4 %	0.200 ppb
111Cd (KED AGD)	0.204 ppb	6.8 %	0.200 ppb
115In (KED AGD)	101.967 %	6.3 %	
121Sb (KED AGD)	0.179 ppb	2.8 %	0.200 ppb
137Ba (KED AGD)	0.184 ppb	10.6 %	0.200 ppb
159Tb (KED AGD)	102.197 %	9.1 %	
175Lu (KED AGD)	102.514 %	9.2 %	
205Tl (KED AGD)	0.179 ppb	4.9 %	0.200 ppb
208Pb (KED AGD)	0.198 ppb	1.8 %	0.200 ppb
209Bi (KED AGD)	101.486 %	8.9 %	

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Standards:

Analysis Index: 5
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 8/1/2023 11:45:39 AM
Total Dilution Factor: 10000
Rack: 0
Vial: 3

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	106.914 %	2.5 %	
6Li (KED AGD)	101.874 %	11.3 %	
9Be (STD AGD)	1.016 ppb	1.8 %	1.000 ppb
23Na (KED AGD)	93.285 ppb	11.1 %	100.000 ppb
24Mg (KED AGD)	102.561 ppb	15.0 %	100.000 ppb
27Al (KED AGD)	1.270 ppb	10.1 %	1.000 ppb
39K (KED AGD)	100.550 ppb	3.6 %	100.000 ppb
44Ca (KED AGD)	187.876 ppb	10.9 %	100.000 ppb
45Sc (STD AGD)	112.103 %	1.7 %	
51V (KED AGD)	0.940 ppb	11.9 %	1.000 ppb
52Cr (KED AGD)	0.999 ppb	3.4 %	1.000 ppb
55Mn (KED AGD)	1.005 ppb	10.6 %	1.000 ppb
57Fe (KED AGD)	99.856 ppb	7.1 %	100.000 ppb
59Co (KED AGD)	0.986 ppb	4.6 %	1.000 ppb
60Ni (KED AGD)	1.035 ppb	12.6 %	1.000 ppb
65Cu (KED AGD)	1.075 ppb	3.0 %	1.000 ppb
66Zn (KED AGD)	0.508 ppb	8.5 %	1.000 ppb
74Ge (KED AGD)	103.978 %	3.0 %	
75As (KED AGD)	0.990 ppb	5.3 %	1.000 ppb
78Se (KED AGD)	0.997 ppb	8.1 %	1.000 ppb
88Sr (KED AGD)	0.995 ppb	2.9 %	1.000 ppb
95Mo (KED AGD)	0.892 ppb	7.4 %	1.000 ppb
103Rh (KED AGD)	103.559 %	3.8 %	
107Ag (KED AGD)	0.941 ppb	2.7 %	1.000 ppb
111Cd (KED AGD)	0.961 ppb	4.5 %	1.000 ppb
115In (KED AGD)	103.752 %	6.5 %	
121Sb (KED AGD)	0.889 ppb	2.7 %	1.000 ppb
137Ba (KED AGD)	0.927 ppb	9.8 %	1.000 ppb
159Tb (KED AGD)	104.921 %	5.9 %	
175Lu (KED AGD)	104.216 %	6.1 %	
205Tl (KED AGD)	0.848 ppb	2.1 %	1.000 ppb
208Pb (KED AGD)	0.914 ppb	0.8 %	1.000 ppb
209Bi (KED AGD)	105.049 %	5.5 %	

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Standards:

Analysis Index: 6
Analysis Name: 10/1000 Cal
Analysis Type: STD
Analysis Started at: 8/1/2023 11:50:08 AM
Total Dilution Factor: 1000
Rack: 0
Vial: 4

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	105.870 %	2.5 %	
6Li (KED AGD)	104.089 %	6.9 %	
9Be (STD AGD)	10.572 ppb	0.5 %	10.000 ppb
23Na (KED AGD)	988.070 ppb	4.5 %	1,000.000 ppb
24Mg (KED AGD)	1,029.121 ppb	4.7 %	1,000.000 ppb
27Al (KED AGD)	10.491 ppb	8.7 %	10.000 ppb
39K (KED AGD)	1,022.131 ppb	3.1 %	1,000.000 ppb
44Ca (KED AGD)	1,104.532 ppb	3.3 %	1,000.000 ppb
45Sc (STD AGD)	111.391 %	2.4 %	
51V (KED AGD)	10.083 ppb	5.4 %	10.000 ppb
52Cr (KED AGD)	10.454 ppb	2.8 %	10.000 ppb
55Mn (KED AGD)	10.389 ppb	4.8 %	10.000 ppb
57Fe (KED AGD)	1,043.231 ppb	2.4 %	1,000.000 ppb
59Co (KED AGD)	10.702 ppb	2.7 %	10.000 ppb
60Ni (KED AGD)	10.849 ppb	1.1 %	10.000 ppb
65Cu (KED AGD)	10.886 ppb	2.5 %	10.000 ppb
66Zn (KED AGD)	10.276 ppb	2.6 %	10.000 ppb
74Ge (KED AGD)	103.000 %	2.8 %	
75As (KED AGD)	10.504 ppb	5.8 %	10.000 ppb
78Se (KED AGD)	10.865 ppb	7.4 %	10.000 ppb
88Sr (KED AGD)	10.045 ppb	3.1 %	10.000 ppb
95Mo (KED AGD)	9.824 ppb	1.3 %	10.000 ppb
103Rh (KED AGD)	104.632 %	2.7 %	
107Ag (KED AGD)	10.106 ppb	0.4 %	10.000 ppb
111Cd (KED AGD)	10.364 ppb	1.0 %	10.000 ppb
115In (KED AGD)	106.111 %	5.7 %	
121Sb (KED AGD)	9.520 ppb	2.1 %	10.000 ppb
137Ba (KED AGD)	10.076 ppb	1.8 %	10.000 ppb
159Tb (KED AGD)	105.994 %	5.1 %	
175Lu (KED AGD)	106.535 %	7.3 %	
205Tl (KED AGD)	9.243 ppb	1.3 %	10.000 ppb
208Pb (KED AGD)	9.682 ppb	2.4 %	10.000 ppb
209Bi (KED AGD)	105.067 %	7.2 %	

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 8/1/2023 11:54:37 AM
Total Dilution Factor: 166.666666
Rack: 0
Vial: 5

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	100.095 %	2.7 %	
6Li (KED AGD)	91.823 %	3.6 %	
9Be (STD AGD)	59.497 ppb	2.5 %	60.000 ppb
23Na (KED AGD)	5,850.299 ppb	1.2 %	6,000.000 ppb
24Mg (KED AGD)	6,042.259 ppb	1.3 %	6,000.000 ppb
27Al (KED AGD)	60.951 ppb	1.7 %	60.000 ppb
39K (KED AGD)	6,094.214 ppb	4.1 %	6,000.000 ppb
44Ca (KED AGD)	6,065.691 ppb	4.1 %	6,000.000 ppb
45Sc (STD AGD)	110.951 %	3.1 %	
51V (KED AGD)	58.923 ppb	0.1 %	60.000 ppb
52Cr (KED AGD)	60.287 ppb	1.8 %	60.000 ppb
55Mn (KED AGD)	59.393 ppb	3.0 %	60.000 ppb
57Fe (KED AGD)	6,013.475 ppb	1.4 %	6,000.000 ppb
59Co (KED AGD)	60.128 ppb	2.7 %	60.000 ppb
60Ni (KED AGD)	60.365 ppb	3.6 %	60.000 ppb
65Cu (KED AGD)	60.073 ppb	3.6 %	60.000 ppb
66Zn (KED AGD)	60.452 ppb	3.5 %	60.000 ppb
74Ge (KED AGD)	100.802 %	5.6 %	
75As (KED AGD)	59.637 ppb	3.4 %	60.000 ppb
78Se (KED AGD)	59.299 ppb	1.3 %	60.000 ppb
88Sr (KED AGD)	58.358 ppb	1.8 %	60.000 ppb
95Mo (KED AGD)	57.499 ppb	0.7 %	60.000 ppb
103Rh (KED AGD)	100.491 %	2.8 %	
107Ag (KED AGD)	57.309 ppb	0.3 %	60.000 ppb
111Cd (KED AGD)	58.946 ppb	0.7 %	60.000 ppb
115In (KED AGD)	101.384 %	2.9 %	
121Sb (KED AGD)	57.900 ppb	1.8 %	60.000 ppb
137Ba (KED AGD)	57.549 ppb	1.3 %	60.000 ppb
159Tb (KED AGD)	102.867 %	4.8 %	
175Lu (KED AGD)	103.591 %	5.0 %	
205Tl (KED AGD)	58.824 ppb	1.2 %	60.000 ppb
208Pb (KED AGD)	58.061 ppb	2.7 %	60.000 ppb
209Bi (KED AGD)	98.756 %	5.1 %	

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Standards:

Analysis Index: 8
Analysis Name: 120/12000 Cal
Analysis Type: STD
Analysis Started at: 8/1/2023 11:59:06 AM
Total Dilution Factor: 83.3333333
Rack: 0
Vial: 6

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	96.749 %	2.9 %	
6Li (KED AGD)	96.763 %	12.6 %	
9Be (STD AGD)	120.203 ppb	0.6 %	120.000 ppb
23Na (KED AGD)	12,075.905 ppb	10.0 %	12,000.000 ppb
24Mg (KED AGD)	11,976.419 ppb	11.1 %	12,000.000 ppb
27Al (KED AGD)	119.481 ppb	10.0 %	120.000 ppb
39K (KED AGD)	11,951.045 ppb	6.3 %	12,000.000 ppb
44Ca (KED AGD)	11,957.489 ppb	5.1 %	12,000.000 ppb
45Sc (STD AGD)	113.028 %	3.3 %	
51V (KED AGD)	120.532 ppb	2.9 %	120.000 ppb
52Cr (KED AGD)	119.818 ppb	1.9 %	120.000 ppb
55Mn (KED AGD)	120.271 ppb	2.8 %	120.000 ppb
57Fe (KED AGD)	11,989.657 ppb	3.9 %	12,000.000 ppb
59Co (KED AGD)	119.878 ppb	2.6 %	120.000 ppb
60Ni (KED AGD)	119.747 ppb	5.1 %	120.000 ppb
65Cu (KED AGD)	119.889 ppb	1.7 %	120.000 ppb
66Zn (KED AGD)	119.756 ppb	3.5 %	120.000 ppb
74Ge (KED AGD)	100.536 %	4.8 %	
75As (KED AGD)	120.140 ppb	1.7 %	120.000 ppb
78Se (KED AGD)	120.278 ppb	0.8 %	120.000 ppb
88Sr (KED AGD)	120.817 ppb	3.7 %	120.000 ppb
95Mo (KED AGD)	121.266 ppb	2.9 %	120.000 ppb
103Rh (KED AGD)	94.783 %	3.9 %	
107Ag (KED AGD)	121.337 ppb	2.9 %	120.000 ppb
111Cd (KED AGD)	120.497 ppb	1.3 %	120.000 ppb
115In (KED AGD)	95.446 %	4.3 %	
121Sb (KED AGD)	121.091 ppb	0.2 %	120.000 ppb
137Ba (KED AGD)	121.220 ppb	0.7 %	120.000 ppb
159Tb (KED AGD)	100.419 %	4.8 %	
175Lu (KED AGD)	100.574 %	5.4 %	
205Tl (KED AGD)	120.652 ppb	0.1 %	120.000 ppb
208Pb (KED AGD)	120.997 ppb	0.7 %	120.000 ppb
209Bi (KED AGD)	93.934 %	6.4 %	

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 1 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: Rinse Rack 0
 Analysis started at: 8/1/2023 11:27:46 AM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.420 %	98.807 %	0.007 ppb	11.298 ppb	2.435 ppb	1.896 ppb	34.275 ppb	25.519 ppb	110.721 %
Concentration per Run 1	109.758 %	99.659 %	0.012 ppb	9.819 ppb	1.497 ppb	1.786 ppb	34.752 ppb	29.852 ppb	115.293 %
Concentration per Run 2	107.223 %	97.615 %	0.001 ppb	11.708 ppb	3.410 ppb	1.908 ppb	30.354 ppb	21.231 ppb	107.334 %
Concentration per Run 3	105.280 %	99.148 %	0.009 ppb	12.368 ppb	2.400 ppb	1.993 ppb	37.720 ppb	25.475 ppb	109.535 %
Concentration RSD	2.1 %	1.1 %	82.1 %	11.7 %	39.3 %	5.5 %	10.8 %	16.9 %	3.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.012 ppb	0.038 ppb	0.209 ppb	17.202 ppb	-0.016 ppb	1.586 ppb	0.527 ppb	7.594 ppb	103.422 %
Concentration per Run 1	-0.013 ppb	0.038 ppb	0.174 ppb	17.378 ppb	-0.018 ppb	1.654 ppb	0.464 ppb	7.204 ppb	104.477 %
Concentration per Run 2	-0.005 ppb	0.031 ppb	0.238 ppb	16.207 ppb	-0.017 ppb	1.582 ppb	0.534 ppb	7.691 ppb	99.938 %
Concentration per Run 3	-0.019 ppb	0.046 ppb	0.216 ppb	18.022 ppb	-0.014 ppb	1.522 ppb	0.582 ppb	7.887 ppb	105.851 %
Concentration RSD	58.6 %	18.7 %	15.5 %	5.3 %	13.8 %	4.2 %	11.3 %	4.6 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.001 ppb	0.028 ppb	0.017 ppb	0.050 ppb	104.234 %	0.007 ppb	0.001 ppb	103.786 %	0.010 ppb
Concentration per Run 1	0.005 ppb	0.066 ppb	0.013 ppb	0.050 ppb	101.496 %	0.008 ppb	0.002 ppb	98.672 %	0.010 ppb
Concentration per Run 2	-0.001 ppb	0.019 ppb	0.020 ppb	0.058 ppb	101.623 %	0.005 ppb	0.000 ppb	105.714 %	0.008 ppb
Concentration per Run 3	-0.008 ppb	-0.002 ppb	0.018 ppb	0.040 ppb	109.584 %	0.006 ppb	0.000 ppb	106.972 %	0.012 ppb
Concentration RSD	607.3 %	126.5 %	19.3 %	18.2 %	4.4 %	24.1 %	165.2 %	4.3 %	22.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.038 ppb	104.631 %	105.187 %	0.039 ppb	0.058 ppb	104.133 %
Concentration per Run 1	0.011 ppb	100.333 %	100.039 %	0.036 ppb	0.062 ppb	99.603 %
Concentration per Run 2	0.052 ppb	103.305 %	105.131 %	0.043 ppb	0.058 ppb	102.119 %
Concentration per Run 3	0.051 ppb	110.256 %	110.389 %	0.039 ppb	0.055 ppb	110.677 %
Concentration RSD	62.0 %	4.9 %	4.9 %	9.6 %	6.2 %	5.6 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 2 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CAL LOT #M22-1194 Rack 0
 Analysis started at: 8/1/2023 11:32:12 AM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.534 %	104.089 %	0.007 ppb	11.027 ppb	1.554 ppb	1.939 ppb	35.940 ppb	24.107 ppb	106.096 %
Concentration per Run 1	105.437 %	96.082 %	0.007 ppb	12.180 ppb	1.685 ppb	1.878 ppb	32.411 ppb	24.489 ppb	107.885 %
Concentration per Run 2	104.536 %	114.992 %	0.011 ppb	8.894 ppb	1.893 ppb	1.868 ppb	37.174 ppb	25.837 ppb	106.320 %
Concentration per Run 3	100.629 %	101.192 %	0.002 ppb	12.006 ppb	1.082 ppb	2.072 ppb	38.234 ppb	21.996 ppb	104.084 %
Concentration RSD	2.5 %	9.4 %	65.4 %	16.8 %	27.1 %	6.0 %	8.6 %	8.1 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.013 ppb	0.040 ppb	0.196 ppb	16.742 ppb	-0.017 ppb	1.586 ppb	0.489 ppb	7.663 ppb	99.721 %
Concentration per Run 1	-0.010 ppb	0.037 ppb	0.231 ppb	18.298 ppb	-0.019 ppb	1.506 ppb	0.487 ppb	7.916 ppb	96.884 %
Concentration per Run 2	0.018 ppb	0.037 ppb	0.132 ppb	15.672 ppb	-0.021 ppb	1.574 ppb	0.516 ppb	7.316 ppb	101.068 %
Concentration per Run 3	0.031 ppb	0.044 ppb	0.226 ppb	16.255 ppb	-0.010 ppb	1.679 ppb	0.464 ppb	7.758 ppb	101.209 %
Concentration RSD	159.7 %	10.3 %	28.3 %	8.2 %	35.5 %	5.5 %	5.3 %	4.1 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.006 ppb	0.006 ppb	0.015 ppb	0.029 ppb	98.538 %	0.005 ppb	0.000 ppb	97.057 %	0.008 ppb
Concentration per Run 1	0.002 ppb	0.011 ppb	0.016 ppb	0.024 ppb	99.608 %	0.005 ppb	0.000 ppb	96.168 %	0.008 ppb
Concentration per Run 2	-0.011 ppb	0.000 ppb	0.017 ppb	0.017 ppb	96.855 %	0.005 ppb	0.000 ppb	95.949 %	0.008 ppb
Concentration per Run 3	-0.008 ppb	0.008 ppb	0.013 ppb	0.045 ppb	99.150 %	0.004 ppb	0.000 ppb	99.052 %	0.007 ppb
Concentration RSD	119.5 %	86.0 %	12.3 %	50.9 %	1.5 %	13.8 %	1,222.3 %	1.8 %	5.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.052 ppb	99.126 %	99.535 %	0.011 ppb	0.061 ppb	99.572 %
Concentration per Run 1	0.038 ppb	97.099 %	97.147 %	0.003 ppb	0.067 ppb	95.974 %
Concentration per Run 2	0.049 ppb	97.420 %	96.716 %	0.018 ppb	0.059 ppb	99.344 %
Concentration per Run 3	0.069 ppb	102.859 %	104.742 %	0.014 ppb	0.056 ppb	103.398 %
Concentration RSD	30.4 %	3.3 %	4.5 %	67.7 %	9.7 %	3.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 3 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: Blank WKP ICPMSQ2 Rack 4
 Analysis started at: 8/1/2023 11:36:39 AM Vial 49

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.1 %	0.0 %	0.1 %	0.1 %	0.3 %	0.1 %	0.3 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.1 %	0.3 %	0.3 %	0.2 %	0.0 %	0.1 %	0.2 %	0.0 %	0.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration RSD	0.3 %	2.2 %	0.0 %	0.3 %	0.0 %	0.2 %	0.4 %	0.1 %	0.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.3 %	0.1 %	0.1 %	0.2 %	0.0 %	0.1 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 4 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: 0.2/20 Cal Rack 0
 Analysis started at: 8/1/2023 11:41:11 AM Vial 2

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.807 %	96.422 %	0.219 ppb	17.767 ppb	21.901 ppb	0.658 ppb	19.468 ppb	153.308 ppb	110.914 %
Concentration per Run 1	106.179 %	96.082 %	0.226 ppb	16.242 ppb	19.437 ppb	0.761 ppb	19.546 ppb	143.589 ppb	111.939 %
Concentration per Run 2	106.812 %	93.015 %	0.220 ppb	19.338 ppb	23.507 ppb	0.409 ppb	17.552 ppb	153.301 ppb	112.807 %
Concentration per Run 3	101.430 %	100.170 %	0.210 ppb	17.720 ppb	22.760 ppb	0.803 ppb	21.307 ppb	163.034 ppb	107.997 %
Concentration RSD	2.8 %	3.7 %	3.7 %	8.7 %	9.9 %	32.9 %	9.6 %	6.3 %	2.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.234 ppb	0.222 ppb	0.118 ppb	22.234 ppb	0.189 ppb	0.189 ppb	0.249 ppb	-0.515 ppb	102.349 %
Concentration per Run 1	0.246 ppb	0.201 ppb	0.126 ppb	22.845 ppb	0.178 ppb	0.197 ppb	0.220 ppb	-0.540 ppb	100.916 %
Concentration per Run 2	0.224 ppb	0.243 ppb	0.080 ppb	22.961 ppb	0.177 ppb	0.220 ppb	0.250 ppb	-0.528 ppb	99.264 %
Concentration per Run 3	0.233 ppb	0.221 ppb	0.148 ppb	20.895 ppb	0.212 ppb	0.149 ppb	0.278 ppb	-0.475 ppb	106.868 %
Concentration RSD	4.7 %	9.6 %	29.7 %	5.2 %	10.7 %	19.2 %	11.7 %	6.7 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.210 ppb	0.221 ppb	0.248 ppb	0.210 ppb	101.978 %	0.197 ppb	0.204 ppb	101.967 %	0.179 ppb
Concentration per Run 1	0.215 ppb	0.238 ppb	0.238 ppb	0.216 ppb	97.980 %	0.197 ppb	0.188 ppb	96.038 %	0.173 ppb
Concentration per Run 2	0.194 ppb	0.280 ppb	0.255 ppb	0.190 ppb	99.240 %	0.198 ppb	0.214 ppb	101.004 %	0.179 ppb
Concentration per Run 3	0.222 ppb	0.145 ppb	0.252 ppb	0.224 ppb	108.713 %	0.196 ppb	0.211 ppb	108.859 %	0.184 ppb
Concentration RSD	6.9 %	31.2 %	3.7 %	8.5 %	5.8 %	0.4 %	6.8 %	6.3 %	2.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.184 ppb	102.197 %	102.514 %	0.179 ppb	0.198 ppb	101.486 %
Concentration per Run 1	0.205 ppb	95.475 %	95.613 %	0.170 ppb	0.201 ppb	93.451 %
Concentration per Run 2	0.181 ppb	98.359 %	98.704 %	0.188 ppb	0.199 ppb	99.777 %
Concentration per Run 3	0.166 ppb	112.756 %	113.226 %	0.178 ppb	0.194 ppb	111.231 %
Concentration RSD	10.6 %	9.1 %	9.2 %	4.9 %	1.8 %	8.9 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 5 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: 1/100 Cal Rack 0
 Analysis started at: 8/1/2023 11:45:39 AM Vial 3

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.914 %	101.874 %	1.016 ppb	93.285 ppb	102.561 ppb	1.270 ppb	100.550 ppb	187.876 ppb	112.103 %
Concentration per Run 1	109.616 %	89.949 %	1.020 ppb	102.940 ppb	118.362 ppb	1.365 ppb	104.101 ppb	193.474 ppb	113.598 %
Concentration per Run 2	106.915 %	112.947 %	0.996 ppb	82.365 ppb	87.678 ppb	1.124 ppb	96.866 ppb	165.209 ppb	112.727 %
Concentration per Run 3	104.212 %	102.726 %	1.032 ppb	94.552 ppb	101.645 ppb	1.322 ppb	100.683 ppb	204.945 ppb	109.984 %
Concentration RSD	2.5 %	11.3 %	1.8 %	11.1 %	15.0 %	10.1 %	3.6 %	10.9 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.940 ppb	0.999 ppb	1.005 ppb	99.856 ppb	0.986 ppb	1.035 ppb	1.075 ppb	0.508 ppb	103.978 %
Concentration per Run 1	1.055 ppb	1.024 ppb	0.888 ppb	101.086 ppb	1.019 ppb	1.186 ppb	1.108 ppb	0.535 ppb	100.434 %
Concentration per Run 2	0.833 ppb	0.960 ppb	1.031 ppb	92.211 ppb	0.934 ppb	0.959 ppb	1.042 ppb	0.458 ppb	106.144 %
Concentration per Run 3	0.932 ppb	1.014 ppb	1.097 ppb	106.272 ppb	1.006 ppb	0.961 ppb	1.076 ppb	0.531 ppb	105.357 %
Concentration RSD	11.9 %	3.4 %	10.6 %	7.1 %	4.6 %	12.6 %	3.0 %	8.5 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.990 ppb	0.997 ppb	0.995 ppb	0.892 ppb	103.559 %	0.941 ppb	0.961 ppb	103.752 %	0.889 ppb
Concentration per Run 1	1.036 ppb	0.917 ppb	1.008 ppb	0.830 ppb	99.946 %	0.941 ppb	0.969 ppb	102.097 %	0.866 ppb
Concentration per Run 2	0.933 ppb	0.994 ppb	0.962 ppb	0.962 ppb	102.916 %	0.966 ppb	0.999 ppb	98.031 %	0.913 ppb
Concentration per Run 3	1.002 ppb	1.079 ppb	1.016 ppb	0.883 ppb	107.814 %	0.916 ppb	0.914 ppb	111.127 %	0.889 ppb
Concentration RSD	5.3 %	8.1 %	2.9 %	7.4 %	3.8 %	2.7 %	4.5 %	6.5 %	2.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.927 ppb	104.921 %	104.216 %	0.848 ppb	0.914 ppb	105.049 %
Concentration per Run 1	0.872 ppb	99.560 %	99.189 %	0.828 ppb	0.920 ppb	99.682 %
Concentration per Run 2	1.032 ppb	103.523 %	102.076 %	0.859 ppb	0.906 ppb	104.332 %
Concentration per Run 3	0.878 ppb	111.680 %	111.384 %	0.858 ppb	0.916 ppb	111.132 %
Concentration RSD	9.8 %	5.9 %	6.1 %	2.1 %	0.8 %	5.5 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 6 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: 10/1000 Cal Rack 0
 Analysis started at: 8/1/2023 11:50:08 AM Vial 4

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.870 %	104.089 %	10.572 ppb	988.070 ppb	1,029.121 ppb	10.491 ppb	1,022.131 ppb	1,104.532 ppb	111.391 %
Concentration per Run 1	108.859 %	109.881 %	10.632 ppb	938.036 ppb	984.287 ppb	9.840 ppb	985.232 ppb	1,084.420 ppb	114.387 %
Concentration per Run 2	104.018 %	96.082 %	10.568 ppb	1,024.074 ppb	1,080.221 ppb	11.531 ppb	1,040.493 ppb	1,082.704 ppb	110.495 %
Concentration per Run 3	104.733 %	106.303 %	10.516 ppb	1,002.100 ppb	1,022.857 ppb	10.101 ppb	1,040.667 ppb	1,146.471 ppb	109.290 %
Concentration RSD	2.5 %	6.9 %	0.5 %	4.5 %	4.7 %	8.7 %	3.1 %	3.3 %	2.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	10.083 ppb	10.454 ppb	10.389 ppb	1,043.231 ppb	10.702 ppb	10.849 ppb	10.886 ppb	10.276 ppb	103.000 %
Concentration per Run 1	10.391 ppb	10.549 ppb	10.310 ppb	1,065.523 ppb	10.711 ppb	10.801 ppb	10.675 ppb	10.407 ppb	99.747 %
Concentration per Run 2	9.456 ppb	10.131 ppb	9.939 ppb	1,016.969 ppb	10.414 ppb	10.980 ppb	10.797 ppb	9.973 ppb	104.325 %
Concentration per Run 3	10.401 ppb	10.682 ppb	10.917 ppb	1,047.199 ppb	10.983 ppb	10.767 ppb	11.186 ppb	10.447 ppb	104.927 %
Concentration RSD	5.4 %	2.8 %	4.8 %	2.4 %	2.7 %	1.1 %	2.5 %	2.6 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.504 ppb	10.865 ppb	10.045 ppb	9.824 ppb	104.632 %	10.106 ppb	10.364 ppb	106.111 %	9.520 ppb
Concentration per Run 1	10.795 ppb	11.355 ppb	10.214 ppb	9.835 ppb	101.598 %	10.072 ppb	10.428 ppb	102.422 %	9.431 ppb
Concentration per Run 2	9.804 ppb	9.932 ppb	9.683 ppb	9.950 ppb	105.137 %	10.155 ppb	10.424 ppb	102.865 %	9.745 ppb
Concentration per Run 3	10.914 ppb	11.307 ppb	10.238 ppb	9.686 ppb	107.162 %	10.091 ppb	10.240 ppb	113.046 %	9.383 ppb
Concentration RSD	5.8 %	7.4 %	3.1 %	1.3 %	2.7 %	0.4 %	1.0 %	5.7 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	10.076 ppb	105.994 %	106.535 %	9.243 ppb	9.682 ppb	105.067 %
Concentration per Run 1	10.183 ppb	99.984 %	98.895 %	9.352 ppb	9.951 ppb	96.805 %
Concentration per Run 2	10.178 ppb	107.358 %	106.326 %	9.116 ppb	9.546 ppb	106.714 %
Concentration per Run 3	9.866 ppb	110.640 %	114.383 %	9.262 ppb	9.550 ppb	111.682 %
Concentration RSD	1.8 %	5.1 %	7.3 %	1.3 %	2.4 %	7.2 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 7 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: 60/6000 Cal Rack 0
 Analysis started at: 8/1/2023 11:54:37 AM Vial 5

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.095 %	91.823 %	59.497 ppb	5,850.299 ppb	6,042.259 ppb	60.951 ppb	6,094.214 ppb	6,065.691 ppb	110.951 %
Concentration per Run 1	102.981 %	91.993 %	58.645 ppb	5,922.565 ppb	6,050.037 ppb	61.464 ppb	6,345.261 ppb	6,296.184 ppb	114.871 %
Concentration per Run 2	97.571 %	88.416 %	61.246 ppb	5,777.403 ppb	6,114.095 ppb	59.762 ppb	5,845.704 ppb	5,801.527 ppb	109.303 %
Concentration per Run 3	99.732 %	95.060 %	58.601 ppb	5,850.928 ppb	5,962.646 ppb	61.626 ppb	6,091.677 ppb	6,099.362 ppb	108.677 %
Concentration RSD	2.7 %	3.6 %	2.5 %	1.2 %	1.3 %	1.7 %	4.1 %	4.1 %	3.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.923 ppb	60.287 ppb	59.393 ppb	6,013.475 ppb	60.128 ppb	60.365 ppb	60.073 ppb	60.452 ppb	100.802 %
Concentration per Run 1	58.914 ppb	61.465 ppb	61.238 ppb	6,095.512 ppb	60.616 ppb	61.529 ppb	59.996 ppb	61.208 ppb	96.328 %
Concentration per Run 2	58.976 ppb	60.028 ppb	59.238 ppb	6,014.675 ppb	61.473 ppb	61.696 ppb	62.298 ppb	62.059 ppb	98.948 %
Concentration per Run 3	58.879 ppb	59.369 ppb	57.703 ppb	5,930.239 ppb	58.296 ppb	57.870 ppb	57.926 ppb	58.089 ppb	107.131 %
Concentration RSD	0.1 %	1.8 %	3.0 %	1.4 %	2.7 %	3.6 %	3.6 %	3.5 %	5.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.637 ppb	59.299 ppb	58.358 ppb	57.499 ppb	100.491 %	57.309 ppb	58.946 ppb	101.384 %	57.900 ppb
Concentration per Run 1	61.927 ppb	59.818 ppb	59.184 ppb	57.527 ppb	97.433 %	57.293 ppb	58.821 ppb	98.984 %	56.904 ppb
Concentration per Run 2	58.142 ppb	59.664 ppb	58.684 ppb	57.877 ppb	101.160 %	57.125 ppb	58.626 ppb	100.509 %	59.003 ppb
Concentration per Run 3	58.842 ppb	58.415 ppb	57.207 ppb	57.092 ppb	102.879 %	57.509 ppb	59.393 ppb	104.659 %	57.792 ppb
Concentration RSD	3.4 %	1.3 %	1.8 %	0.7 %	2.8 %	0.3 %	0.7 %	2.9 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	57.549 ppb	102.867 %	103.591 %	58.824 ppb	58.061 ppb	98.756 %
Concentration per Run 1	57.950 ppb	97.420 %	97.735 %	58.534 ppb	56.343 ppb	93.106 %
Concentration per Run 2	58.009 ppb	104.263 %	105.583 %	58.307 ppb	58.455 ppb	100.497 %
Concentration per Run 3	56.688 ppb	106.918 %	107.455 %	59.632 ppb	59.386 ppb	102.665 %
Concentration RSD	1.3 %	4.8 %	5.0 %	1.2 %	2.7 %	5.1 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 8 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: 120/12000 Cal Rack 0
 Analysis started at: 8/1/2023 11:59:06 AM Vial 6

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.749 %	96.763 %	120.203 ppb	12,075.905 ppb	11,976.419 ppb	119.481 ppb	11,951.045 ppb	11,957.489 ppb	113.028 %
Concentration per Run 1	99.853 %	102.215 %	120.749 ppb	11,571.853 ppb	11,341.875 ppb	113.680 ppb	11,456.323 ppb	11,726.810 ppb	117.357 %
Concentration per Run 2	95.875 %	82.794 %	119.373 ppb	13,453.825 ppb	13,499.021 ppb	133.263 ppb	12,810.799 ppb	12,643.493 ppb	111.319 %
Concentration per Run 3	94.519 %	105.281 %	120.488 ppb	11,202.035 ppb	11,088.362 ppb	111.499 ppb	11,586.013 ppb	11,502.164 ppb	110.409 %
Concentration RSD	2.9 %	12.6 %	0.6 %	10.0 %	11.1 %	10.0 %	6.3 %	5.1 %	3.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	120.532 ppb	119.818 ppb	120.271 ppb	11,989.657 ppb	119.878 ppb	119.747 ppb	119.889 ppb	119.756 ppb	100.536 %
Concentration per Run 1	118.007 ppb	119.273 ppb	123.308 ppb	11,788.458 ppb	120.463 ppb	121.076 ppb	121.821 ppb	121.300 ppb	95.222 %
Concentration per Run 2	124.493 ppb	122.307 ppb	120.775 ppb	12,523.723 ppb	122.609 ppb	125.084 ppb	120.165 ppb	122.997 ppb	101.859 %
Concentration per Run 3	119.096 ppb	117.875 ppb	116.730 ppb	11,656.791 ppb	116.561 ppb	113.080 ppb	117.680 ppb	114.972 ppb	104.526 %
Concentration RSD	2.9 %	1.9 %	2.8 %	3.9 %	2.6 %	5.1 %	1.7 %	3.5 %	4.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	120.140 ppb	120.278 ppb	120.817 ppb	121.266 ppb	94.783 %	121.337 ppb	120.497 ppb	95.446 %	121.091 ppb
Concentration per Run 1	122.511 ppb	120.715 ppb	124.918 ppb	125.016 ppb	91.400 %	117.210 ppb	121.970 ppb	94.411 %	120.856 ppb
Concentration per Run 2	118.557 ppb	120.892 ppb	116.140 ppb	120.699 ppb	94.255 %	123.571 ppb	118.876 ppb	91.927 %	121.283 ppb
Concentration per Run 3	119.351 ppb	119.228 ppb	121.393 ppb	118.084 ppb	98.695 %	123.231 ppb	120.644 ppb	100.001 %	121.134 ppb
Concentration RSD	1.7 %	0.8 %	3.7 %	2.9 %	3.9 %	2.9 %	1.3 %	4.3 %	0.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	121.220 ppb	100.419 %	100.574 %	120.652 ppb	120.997 ppb	93.934 %
Concentration per Run 1	121.632 ppb	95.962 %	95.832 %	120.717 ppb	121.928 ppb	88.444 %
Concentration per Run 2	120.239 ppb	99.840 %	99.348 %	120.657 ppb	120.414 ppb	93.005 %
Concentration per Run 3	121.788 ppb	105.454 %	106.542 %	120.583 ppb	120.648 ppb	100.352 %
Concentration RSD	0.7 %	4.8 %	5.4 %	0.1 %	0.7 %	6.4 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 9 User name ALPHALAB\la2-icpmsq2 Comment Sr Intefrence Check
 Analysis label: Sr 200ppb Rack 4
 Analysis started at: 8/1/2023 12:03:37 PM Vial 55

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.881 %	99.830 %	0.021 ppb	-0.791 ppb	2.477 ppb	1.786 ppb	-2.410 ppb	-6.949 ppb	107.638 %
Concentration per Run 1	104.940 %	101.704 %	0.027 ppb	-0.275 ppb	2.820 ppb	1.723 ppb	-2.285 ppb	-32.029 ppb	111.163 %
Concentration per Run 2	101.032 %	105.281 %	0.024 ppb	-1.406 ppb	1.827 ppb	1.771 ppb	-3.255 ppb	-43.621 ppb	107.476 %
Concentration per Run 3	99.672 %	92.504 %	0.010 ppb	-0.692 ppb	2.783 ppb	1.862 ppb	-1.689 ppb	54.804 ppb	104.275 %
Concentration RSD	2.7 %	6.6 %	43.9 %	72.4 %	22.7 %	3.9 %	32.8 %	774.1 %	3.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.001 ppb	0.004 ppb	0.041 ppb	6.043 ppb	-0.014 ppb	0.034 ppb	0.048 ppb	-0.249 ppb	99.568 %
Concentration per Run 1	0.005 ppb	-0.002 ppb	0.042 ppb	5.360 ppb	-0.011 ppb	0.045 ppb	0.046 ppb	-0.265 ppb	97.647 %
Concentration per Run 2	-0.019 ppb	0.014 ppb	0.015 ppb	7.286 ppb	-0.011 ppb	0.032 ppb	0.041 ppb	-0.294 ppb	101.170 %
Concentration per Run 3	0.019 ppb	0.000 ppb	0.066 ppb	5.484 ppb	-0.019 ppb	0.024 ppb	0.057 ppb	-0.187 ppb	99.887 %
Concentration RSD	1,359.6 %	210.9 %	61.7 %	17.8 %	34.0 %	31.5 %	16.7 %	22.2 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.020 ppb	0.045 ppb	200.424 ppb	0.224 ppb	101.517 %	0.017 ppb	0.004 ppb	100.578 %	0.036 ppb
Concentration per Run 1	0.019 ppb	0.068 ppb	199.563 ppb	0.242 ppb	99.143 %	0.020 ppb	0.003 ppb	98.876 %	0.037 ppb
Concentration per Run 2	0.021 ppb	0.067 ppb	199.189 ppb	0.248 ppb	104.375 %	0.016 ppb	0.004 ppb	103.803 %	0.035 ppb
Concentration per Run 3	0.018 ppb	-0.001 ppb	202.520 ppb	0.182 ppb	101.034 %	0.015 ppb	0.004 ppb	99.055 %	0.036 ppb
Concentration RSD	7.5 %	88.2 %	0.9 %	16.3 %	2.6 %	16.2 %	13.1 %	2.8 %	3.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.039 ppb	101.755 %	102.582 %	0.176 ppb	0.031 ppb	102.033 %
Concentration per Run 1	0.048 ppb	98.627 %	98.451 %	0.175 ppb	0.035 ppb	97.862 %
Concentration per Run 2	0.037 ppb	105.150 %	106.444 %	0.196 ppb	0.029 ppb	105.889 %
Concentration per Run 3	0.031 ppb	101.487 %	102.853 %	0.157 ppb	0.030 ppb	102.347 %
Concentration RSD	22.1 %	3.2 %	3.9 %	11.0 %	9.9 %	3.9 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 10 User name ALPHALAB\la2-icpmsq2 Comment ICV
 Analysis label: ICV Rack 0
 Analysis started at: 8/1/2023 12:08:09 PM Vial 7

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.211 %	93.526 %	51.074 ppb	4,750.534 ppb	4,995.206 ppb	51.819 ppb	4,913.220 ppb	4,896.405 ppb	106.312 %
Concentration per Run 1	98.950 %	96.593 %	51.586 ppb	4,623.545 ppb	4,914.044 ppb	51.482 ppb	4,770.906 ppb	4,697.073 ppb	106.542 %
Concentration per Run 2	99.774 %	94.549 %	49.892 ppb	4,760.820 ppb	4,893.406 ppb	52.047 ppb	5,113.227 ppb	5,143.826 ppb	108.204 %
Concentration per Run 3	95.910 %	89.438 %	51.745 ppb	4,867.237 ppb	5,178.167 ppb	51.929 ppb	4,855.527 ppb	4,848.318 ppb	104.190 %
Recovery Percentage 1			102.149 %	95.011 %	99.904 %	103.638 %	98.264 %	97.928 %	
Concentration RSD	2.1 %	3.9 %	2.0 %	2.6 %	3.2 %	0.6 %	3.6 %	4.6 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	50.116 ppb	49.347 ppb	50.726 ppb	5,001.516 ppb	50.411 ppb	51.580 ppb	51.518 ppb	50.648 ppb	99.818 %
Concentration per Run 1	47.910 ppb	46.654 ppb	50.522 ppb	4,836.411 ppb	48.416 ppb	50.379 ppb	50.042 ppb	48.781 ppb	102.171 %
Concentration per Run 2	51.421 ppb	50.133 ppb	50.609 ppb	5,031.315 ppb	49.664 ppb	51.236 ppb	50.655 ppb	51.181 ppb	99.588 %
Concentration per Run 3	51.017 ppb	51.252 ppb	51.047 ppb	5,136.820 ppb	53.151 ppb	53.125 ppb	53.857 ppb	51.981 ppb	97.696 %
Recovery Percentage 1	100.232 %	98.693 %	101.451 %	100.030 %	100.821 %	103.160 %	103.036 %	101.295 %	
Concentration RSD	3.8 %	4.9 %	0.6 %	3.0 %	4.9 %	2.7 %	4.0 %	3.3 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	48.621 ppb	49.780 ppb	48.732 ppb	49.559 ppb	99.382 %	48.718 ppb	49.119 ppb	100.639 %	48.981 ppb
Concentration per Run 1	46.124 ppb	46.901 ppb	47.609 ppb	48.089 ppb	96.920 %	48.412 ppb	48.898 ppb	96.017 %	49.585 ppb
Concentration per Run 2	50.881 ppb	51.186 ppb	48.964 ppb	49.574 ppb	101.148 %	49.407 ppb	49.594 ppb	101.850 %	48.127 ppb
Concentration per Run 3	48.857 ppb	51.252 ppb	49.625 ppb	51.012 ppb	100.079 %	48.334 ppb	48.865 ppb	104.051 %	49.232 ppb
Recovery Percentage 1	97.241 %	99.559 %	97.465 %	99.117 %		97.436 %	98.238 %		97.962 %
Concentration RSD	4.9 %	5.0 %	2.1 %	2.9 %	2.2 %	1.2 %	0.8 %	4.1 %	1.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	47.726 ppb	103.527 %	103.053 %	49.409 ppb	48.550 ppb	96.833 %
Concentration per Run 1	48.257 ppb	98.594 %	98.061 %	48.239 ppb	48.305 ppb	92.545 %
Concentration per Run 2	47.374 ppb	104.759 %	103.989 %	49.757 ppb	48.413 ppb	99.609 %
Concentration per Run 3	47.548 ppb	107.229 %	107.109 %	50.232 ppb	48.931 ppb	98.344 %
Recovery Percentage 1	95.452 %			98.819 %		97.099 %
Concentration RSD	1.0 %	4.3 %	4.5 %	2.1 %	0.7 %	3.9 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 11 User name ALPHALAB\la2-icpmsq2 Comment ICB
 Analysis label: ICB Rack 0
 Analysis started at: 8/1/2023 12:12:40 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.829 %	103.578 %	0.000 ppb	-3.846 ppb	-0.124 ppb	0.071 ppb	-6.158 ppb	-4.599 ppb	107.293 %
Concentration per Run 1	104.638 %	105.281 %	-0.005 ppb	-3.872 ppb	0.166 ppb	0.023 ppb	-6.348 ppb	-5.497 ppb	110.311 %
Concentration per Run 2	99.883 %	100.170 %	0.001 ppb	-3.526 ppb	-0.141 ppb	0.197 ppb	-6.212 ppb	-4.563 ppb	106.063 %
Concentration per Run 3	100.967 %	105.281 %	0.005 ppb	-4.138 ppb	-0.397 ppb	-0.008 ppb	-5.916 ppb	-3.737 ppb	105.504 %
Recovery Percentage 1			0.073 %	-3.846 %	-0.177 %	0.708 %	-6.158 %	-4.599 %	
Concentration RSD	2.4 %	2.8 %	1,327.3 %	8.0 %	227.0 %	156.0 %	3.6 %	19.1 %	2.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.018 ppb	-0.007 ppb	-0.065 ppb	3.394 ppb	-0.020 ppb	-0.014 ppb	0.020 ppb	-0.898 ppb	99.424 %
Concentration per Run 1	0.007 ppb	-0.006 ppb	-0.049 ppb	3.292 ppb	-0.013 ppb	-0.003 ppb	0.002 ppb	-0.850 ppb	97.558 %
Concentration per Run 2	-0.024 ppb	-0.008 ppb	-0.079 ppb	3.470 ppb	-0.019 ppb	-0.029 ppb	0.022 ppb	-0.912 ppb	100.559 %
Concentration per Run 3	-0.037 ppb	-0.007 ppb	-0.067 ppb	3.418 ppb	-0.027 ppb	-0.010 ppb	0.036 ppb	-0.933 ppb	100.154 %
Recovery Percentage 1	-0.362 %	-0.678 %	-6.488 %	6.787 %	-3.970 %	-0.698 %	2.009 %	-17.968 %	
Concentration RSD	124.9 %	13.8 %	23.5 %	2.7 %	36.9 %	98.9 %	85.5 %	4.8 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.011 ppb	0.042 ppb	-0.006 ppb	0.117 ppb	102.495 %	0.007 ppb	0.001 ppb	102.781 %	0.030 ppb
Concentration per Run 1	0.007 ppb	0.101 ppb	-0.006 ppb	0.132 ppb	98.814 %	0.009 ppb	0.002 ppb	100.100 %	0.027 ppb
Concentration per Run 2	0.015 ppb	0.027 ppb	-0.004 ppb	0.124 ppb	102.214 %	0.007 ppb	0.000 ppb	104.926 %	0.036 ppb
Concentration per Run 3	0.010 ppb	-0.001 ppb	-0.006 ppb	0.095 ppb	106.455 %	0.004 ppb	0.000 ppb	103.317 %	0.028 ppb
Recovery Percentage 1	2.100 %	0.845 %	-0.055 %	5.858 %		1.661 %	0.255 %		0.752 %
Concentration RSD	37.6 %	125.6 %	18.4 %	16.8 %	3.7 %	31.2 %	235.9 %	2.4 %	16.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.023 ppb	102.712 %	105.019 %	0.182 ppb	0.001 ppb	103.776 %
Concentration per Run 1	-0.030 ppb	97.391 %	99.104 %	0.170 ppb	0.000 ppb	97.543 %
Concentration per Run 2	-0.018 ppb	103.751 %	106.331 %	0.211 ppb	0.001 ppb	105.694 %
Concentration per Run 3	-0.021 ppb	106.993 %	109.622 %	0.166 ppb	0.002 ppb	108.091 %
Recovery Percentage 1	-4.585 %			18.192 %	0.082 %	
Concentration RSD	26.9 %	4.8 %	5.1 %	13.7 %	93.2 %	5.3 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 12 User name ALPHALAB\la2-icpmsq Comment <Comment>
 Analysis label: L2342678-01 6020TL Rack 1
 Analysis started at: 8/1/2023 12:19:25 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.233 %	109.370 %	0.009 ppb	10,423.649 ppb	1,091.829 ppb	7.412 ppb	652.268 ppb	5,512.512 ppb	117.510 %
Concentration per Run 1	111.682 %	99.659 %	0.007 ppb	10,948.267 ppb	1,140.487 ppb	7.388 ppb	673.938 ppb	5,719.394 ppb	121.227 %
Concentration per Run 2	109.131 %	112.436 %	0.009 ppb	9,947.708 ppb	1,038.136 ppb	7.873 ppb	651.360 ppb	5,296.006 ppb	119.236 %
Concentration per Run 3	106.888 %	116.014 %	0.012 ppb	10,374.974 ppb	1,096.864 ppb	6.977 ppb	631.505 ppb	5,522.137 ppb	112.066 %
Concentration RSD	2.2 %	7.9 %	27.4 %	4.8 %	4.7 %	6.0 %	3.3 %	3.8 %	4.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.119 ppb	0.231 ppb	1.316 ppb	10.659 ppb	-0.013 ppb	0.162 ppb	1.188 ppb	1.007 ppb	104.202 %
Concentration per Run 1	0.184 ppb	0.250 ppb	1.323 ppb	9.654 ppb	-0.011 ppb	0.193 ppb	1.261 ppb	1.097 ppb	94.658 %
Concentration per Run 2	0.092 ppb	0.214 ppb	1.321 ppb	10.679 ppb	-0.014 ppb	0.111 ppb	1.128 ppb	0.895 ppb	107.569 %
Concentration per Run 3	0.082 ppb	0.229 ppb	1.304 ppb	11.645 ppb	-0.014 ppb	0.180 ppb	1.176 ppb	1.031 ppb	110.379 %
Concentration RSD	47.0 %	7.8 %	0.8 %	9.3 %	12.6 %	27.4 %	5.7 %	10.2 %	8.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.292 ppb	0.091 ppb	18.097 ppb	0.102 ppb	105.470 %	0.012 ppb	0.002 ppb	107.262 %	0.075 ppb
Concentration per Run 1	0.301 ppb	0.092 ppb	18.393 ppb	0.089 ppb	98.211 %	0.013 ppb	0.002 ppb	100.898 %	0.074 ppb
Concentration per Run 2	0.302 ppb	0.092 ppb	17.875 ppb	0.111 ppb	107.924 %	0.014 ppb	0.004 ppb	108.597 %	0.071 ppb
Concentration per Run 3	0.274 ppb	0.088 ppb	18.025 ppb	0.106 ppb	110.276 %	0.011 ppb	0.001 ppb	112.292 %	0.080 ppb
Concentration RSD	5.4 %	3.0 %	1.5 %	11.4 %	6.1 %	12.3 %	70.3 %	5.4 %	5.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	16.378 ppb	109.047 %	110.342 %	0.034 ppb	0.035 ppb	105.404 %
Concentration per Run 1	16.187 ppb	102.104 %	101.927 %	0.031 ppb	0.036 ppb	97.020 %
Concentration per Run 2	16.662 ppb	110.483 %	112.343 %	0.034 ppb	0.034 ppb	107.163 %
Concentration per Run 3	16.286 ppb	114.554 %	116.758 %	0.037 ppb	0.035 ppb	112.028 %
Concentration RSD	1.5 %	5.8 %	6.9 %	8.0 %	2.3 %	7.3 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 13 User name ALPHALAB\la2-icpmsq Comment <Comment>
 Analysis label: L2342678-03 6020TL Rack 1
 Analysis started at: 8/1/2023 12:23:54 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.325 %	108.348 %	0.002 ppb	82,263.967 ppb	16,001.924 ppb	21.869 ppb	9,548.664 ppb	74,946.080 ppb	125.935 %
Concentration per Run 1	106.715 %	113.458 %	0.003 ppb	75,269.205 ppb	14,150.376 ppb	19.512 ppb	8,996.494 ppb	71,340.644 ppb	132.259 %
Concentration per Run 2	102.326 %	105.281 %	0.003 ppb	84,803.530 ppb	16,516.126 ppb	22.297 ppb	9,177.970 ppb	73,373.490 ppb	123.087 %
Concentration per Run 3	100.933 %	106.303 %	0.000 ppb	86,719.166 ppb	17,339.271 ppb	23.797 ppb	10,471.527 ppb	80,124.105 ppb	122.459 %
Concentration RSD	2.9 %	4.1 %	77.4 %	7.5 %	10.3 %	9.9 %	8.4 %	6.1 %	4.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.563 ppb	0.402 ppb	1,394.213 ppb	6,040.595 ppb	0.875 ppb	0.584 ppb	0.454 ppb	2.837 ppb	113.535 %
Concentration per Run 1	0.578 ppb	0.375 ppb	1,311.966 ppb	5,821.623 ppb	0.879 ppb	0.643 ppb	0.482 ppb	2.829 ppb	105.698 %
Concentration per Run 2	0.530 ppb	0.432 ppb	1,430.797 ppb	6,189.652 ppb	0.889 ppb	0.560 ppb	0.450 ppb	2.780 ppb	112.073 %
Concentration per Run 3	0.580 ppb	0.399 ppb	1,439.875 ppb	6,110.511 ppb	0.857 ppb	0.550 ppb	0.431 ppb	2.901 ppb	122.834 %
Concentration RSD	5.0 %	7.1 %	5.1 %	3.2 %	1.8 %	8.7 %	5.6 %	2.2 %	7.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.603 ppb	0.203 ppb	257.008 ppb	4.030 ppb	103.039 %	0.000 ppb	0.006 ppb	108.056 %	0.133 ppb
Concentration per Run 1	2.558 ppb	0.178 ppb	252.708 ppb	4.087 ppb	98.447 %	-0.001 ppb	0.009 ppb	99.275 %	0.129 ppb
Concentration per Run 2	2.610 ppb	0.223 ppb	255.865 ppb	4.048 ppb	102.005 %	0.001 ppb	0.007 ppb	108.229 %	0.140 ppb
Concentration per Run 3	2.640 ppb	0.209 ppb	262.450 ppb	3.953 ppb	108.664 %	0.001 ppb	0.003 ppb	116.664 %	0.131 ppb
Concentration RSD	1.6 %	11.3 %	1.9 %	1.7 %	5.0 %	262.2 %	47.9 %	8.0 %	4.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	87.432 ppb	110.558 %	111.835 %	0.017 ppb	0.569 ppb	94.845 %
Concentration per Run 1	87.585 ppb	102.816 %	102.402 %	0.011 ppb	0.573 ppb	86.394 %
Concentration per Run 2	87.273 ppb	110.555 %	112.210 %	0.020 ppb	0.570 ppb	96.731 %
Concentration per Run 3	87.437 ppb	118.303 %	120.892 %	0.021 ppb	0.564 ppb	101.411 %
Concentration RSD	0.2 %	7.0 %	8.3 %	32.6 %	0.8 %	8.1 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 14 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2337211-05 6020SL Rack: 1
 Analysis started at: 8/1/2023 12:28:25 PM Vial: 11

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	111.814 %	104.940 %	0.093 ppb	8,101.199 ppb	7,381.016 ppb	19.377 ppb	502.610 ppb	10,789.846 ppb	132.676 %
Concentration per Run 1	114.528 %	101.704 %	0.099 ppb	8,108.876 ppb	7,334.620 ppb	19.512 ppb	496.230 ppb	10,805.275 ppb	134.010 %
Concentration per Run 2	111.091 %	100.170 %	0.096 ppb	8,242.603 ppb	7,619.744 ppb	20.702 ppb	508.510 ppb	10,743.551 ppb	134.833 %
Concentration per Run 3	109.822 %	112.947 %	0.083 ppb	7,952.117 ppb	7,188.684 ppb	17.919 ppb	503.090 ppb	10,820.713 ppb	129.185 %
Concentration RSD	2.2 %	6.6 %	9.2 %	1.8 %	3.0 %	7.2 %	1.2 %	0.4 %	2.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.068 ppb	1.095 ppb	23.367 ppb	124.494 ppb	0.196 ppb	9.732 ppb	7.302 ppb	18.618 ppb	110.292 %
Concentration per Run 1	0.081 ppb	1.127 ppb	23.632 ppb	128.752 ppb	0.190 ppb	9.666 ppb	7.288 ppb	18.872 ppb	102.622 %
Concentration per Run 2	0.062 ppb	1.116 ppb	23.085 ppb	122.555 ppb	0.210 ppb	10.109 ppb	7.452 ppb	19.062 ppb	111.741 %
Concentration per Run 3	0.060 ppb	1.041 ppb	23.384 ppb	122.175 ppb	0.187 ppb	9.422 ppb	7.164 ppb	17.921 ppb	116.512 %
Concentration RSD	17.5 %	4.3 %	1.2 %	3.0 %	6.4 %	3.6 %	2.0 %	3.3 %	6.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.045 ppb	0.113 ppb	40.145 ppb	0.030 ppb	108.397 %	0.000 ppb	0.119 ppb	112.038 %	0.013 ppb
Concentration per Run 1	0.056 ppb	0.085 ppb	39.992 ppb	0.037 ppb	103.156 %	0.000 ppb	0.118 ppb	105.844 %	0.010 ppb
Concentration per Run 2	0.044 ppb	0.068 ppb	39.605 ppb	0.022 ppb	109.748 %	0.000 ppb	0.116 ppb	111.191 %	0.016 ppb
Concentration per Run 3	0.034 ppb	0.185 ppb	40.836 ppb	0.031 ppb	112.289 %	0.000 ppb	0.124 ppb	119.079 %	0.015 ppb
Concentration RSD	25.0 %	55.9 %	1.6 %	24.6 %	4.3 %	46.1 %	3.4 %	5.9 %	21.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	22.929 ppb	109.989 %	110.635 %	0.003 ppb	0.034 ppb	105.555 %
Concentration per Run 1	22.738 ppb	102.766 %	101.576 %	-0.004 ppb	0.033 ppb	97.128 %
Concentration per Run 2	23.388 ppb	110.788 %	111.748 %	0.005 ppb	0.035 ppb	107.264 %
Concentration per Run 3	22.660 ppb	116.412 %	118.581 %	0.007 ppb	0.033 ppb	112.272 %
Concentration RSD	1.7 %	6.2 %	7.7 %	212.9 %	3.2 %	7.3 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 15 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2337659-12 6020SL Rack: 1
 Analysis started at: 8/1/2023 12:32:56 PM Vial: 12

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	115.134 %	118.739 %	0.005 ppb	89,554.671 ppb	9,555.554 ppb	63.969 ppb	6,031.879 ppb	42,906.264 ppb	131.290 %
Concentration per Run 1	119.163 %	118.569 %	0.008 ppb	86,958.698 ppb	9,328.777 ppb	61.919 ppb	5,931.929 ppb	41,781.698 ppb	135.147 %
Concentration per Run 2	113.498 %	110.903 %	0.003 ppb	94,952.277 ppb	10,107.155 ppb	68.767 ppb	6,201.539 ppb	43,655.493 ppb	130.390 %
Concentration per Run 3	112.743 %	126.746 %	0.005 ppb	86,753.038 ppb	9,230.731 ppb	61.222 ppb	5,962.168 ppb	43,281.602 ppb	128.334 %
Concentration RSD	3.0 %	6.7 %	53.1 %	5.2 %	5.0 %	6.5 %	2.4 %	2.3 %	2.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.949 ppb	0.355 ppb	627.246 ppb	199.228 ppb	0.822 ppb	1.562 ppb	1.055 ppb	1.647 ppb	112.547 %
Concentration per Run 1	0.887 ppb	0.351 ppb	625.356 ppb	199.424 ppb	0.836 ppb	1.520 ppb	1.010 ppb	1.531 ppb	109.209 %
Concentration per Run 2	0.937 ppb	0.359 ppb	636.230 ppb	201.695 ppb	0.799 ppb	1.624 ppb	1.108 ppb	1.670 ppb	114.591 %
Concentration per Run 3	1.022 ppb	0.355 ppb	620.152 ppb	196.565 ppb	0.832 ppb	1.543 ppb	1.047 ppb	1.739 ppb	113.842 %
Concentration RSD	7.2 %	1.1 %	1.3 %	1.3 %	2.5 %	3.5 %	4.7 %	6.4 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.109 ppb	0.215 ppb	356.851 ppb	0.094 ppb	106.402 %	0.003 ppb	0.022 ppb	110.213 %	0.116 ppb
Concentration per Run 1	1.121 ppb	0.228 ppb	358.931 ppb	0.087 ppb	101.486 %	0.003 ppb	0.022 ppb	105.728 %	0.122 ppb
Concentration per Run 2	1.126 ppb	0.222 ppb	355.667 ppb	0.108 ppb	106.877 %	0.004 ppb	0.023 ppb	111.641 %	0.117 ppb
Concentration per Run 3	1.080 ppb	0.195 ppb	355.954 ppb	0.087 ppb	110.844 %	0.002 ppb	0.020 ppb	113.270 %	0.108 ppb
Concentration RSD	2.3 %	8.0 %	0.5 %	13.0 %	4.4 %	19.5 %	5.5 %	3.6 %	6.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	180.641 ppb	116.464 %	117.484 %	-0.002 ppb	0.985 ppb	99.766 %
Concentration per Run 1	181.980 ppb	109.959 %	109.636 %	-0.006 ppb	1.000 ppb	92.409 %
Concentration per Run 2	181.844 ppb	119.395 %	119.849 %	0.000 ppb	0.972 ppb	101.342 %
Concentration per Run 3	178.098 ppb	120.038 %	122.968 %	0.000 ppb	0.984 ppb	105.546 %
Concentration RSD	1.2 %	4.8 %	5.9 %	183.5 %	1.4 %	6.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 16 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2337659-13 6020SL Rack: 1
 Analysis started at: 8/1/2023 12:37:27 PM Vial: 13

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	111.720 %	119.421 %	0.008 ppb	120,950.180 ppb	4,573.765 ppb	35.119 ppb	2,889.826 ppb	29,895.535 ppb	133.126 %
Concentration per Run 1	114.557 %	127.257 %	0.011 ppb	109,967.531 ppb	4,126.911 ppb	31.590 ppb	2,695.198 ppb	28,439.232 ppb	136.623 %
Concentration per Run 2	110.814 %	108.859 %	0.007 ppb	132,247.310 ppb	5,101.467 ppb	40.093 ppb	3,137.660 ppb	31,279.267 ppb	133.172 %
Concentration per Run 3	109.788 %	122.147 %	0.006 ppb	120,635.698 ppb	4,492.918 ppb	33.673 ppb	2,836.621 ppb	29,968.106 ppb	129.584 %
Concentration RSD	2.2 %	8.0 %	34.2 %	9.2 %	10.8 %	12.6 %	7.8 %	4.8 %	2.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.039 ppb	0.666 ppb	198.943 ppb	886.647 ppb	0.443 ppb	2.343 ppb	6.253 ppb	13.100 ppb	116.520 %
Concentration per Run 1	0.975 ppb	0.639 ppb	194.304 ppb	871.886 ppb	0.435 ppb	2.419 ppb	6.441 ppb	13.283 ppb	106.234 %
Concentration per Run 2	1.061 ppb	0.659 ppb	206.562 ppb	910.111 ppb	0.462 ppb	2.331 ppb	6.251 ppb	13.147 ppb	124.666 %
Concentration per Run 3	1.080 ppb	0.700 ppb	195.963 ppb	877.943 ppb	0.434 ppb	2.279 ppb	6.068 ppb	12.869 ppb	118.661 %
Concentration RSD	5.4 %	4.7 %	3.3 %	2.3 %	3.6 %	3.0 %	3.0 %	1.6 %	8.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.277 ppb	0.272 ppb	259.820 ppb	1.164 ppb	106.530 %	0.015 ppb	0.069 ppb	113.257 %	0.437 ppb
Concentration per Run 1	1.314 ppb	0.297 ppb	259.362 ppb	1.128 ppb	99.162 %	0.017 ppb	0.068 ppb	106.627 %	0.420 ppb
Concentration per Run 2	1.231 ppb	0.289 ppb	266.437 ppb	1.157 ppb	111.144 %	0.014 ppb	0.066 ppb	117.621 %	0.441 ppb
Concentration per Run 3	1.287 ppb	0.231 ppb	253.660 ppb	1.208 ppb	109.285 %	0.013 ppb	0.074 ppb	115.523 %	0.451 ppb
Concentration RSD	3.3 %	13.2 %	2.5 %	3.5 %	6.1 %	12.8 %	6.5 %	5.2 %	3.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	116.473 ppb	115.530 %	116.915 %	0.003 ppb	1.716 ppb	98.124 %
Concentration per Run 1	113.874 ppb	106.894 %	105.156 %	0.000 ppb	1.724 ppb	89.827 %
Concentration per Run 2	120.201 ppb	120.622 %	124.040 %	0.004 ppb	1.682 ppb	101.945 %
Concentration per Run 3	115.345 ppb	119.074 %	121.550 %	0.004 ppb	1.742 ppb	102.601 %
Concentration RSD	2.8 %	6.5 %	8.8 %	80.2 %	1.8 %	7.3 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 17 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2337659-14 6020SL Rack: 1
 Analysis started at: 8/1/2023 12:41:54 PM Vial: 14

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	114.533 %	113.118 %	0.003 ppb	82,802.850 ppb	6,775.212 ppb	45.636 ppb	3,741.279 ppb	30,294.944 ppb	135.240 %
Concentration per Run 1	117.344 %	104.259 %	0.001 ppb	84,567.150 ppb	6,803.281 ppb	44.878 ppb	3,688.667 ppb	29,679.526 ppb	139.022 %
Concentration per Run 2	114.053 %	127.768 %	0.002 ppb	75,049.233 ppb	6,248.502 ppb	43.787 ppb	3,567.868 ppb	28,736.463 ppb	135.837 %
Concentration per Run 3	112.201 %	107.325 %	0.008 ppb	88,792.165 ppb	7,273.854 ppb	48.243 ppb	3,967.303 ppb	32,468.842 ppb	130.862 %
Concentration RSD	2.3 %	11.3 %	103.1 %	8.5 %	7.6 %	5.1 %	5.5 %	6.4 %	3.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.819 ppb	0.606 ppb	161.251 ppb	729.574 ppb	0.353 ppb	2.196 ppb	6.346 ppb	17.738 ppb	114.574 %
Concentration per Run 1	0.870 ppb	0.635 ppb	159.484 ppb	717.835 ppb	0.342 ppb	2.146 ppb	6.414 ppb	17.651 ppb	108.637 %
Concentration per Run 2	0.756 ppb	0.553 ppb	151.276 ppb	694.548 ppb	0.328 ppb	2.086 ppb	5.899 ppb	17.284 ppb	121.957 %
Concentration per Run 3	0.830 ppb	0.629 ppb	172.994 ppb	776.339 ppb	0.388 ppb	2.357 ppb	6.725 ppb	18.280 ppb	113.127 %
Concentration RSD	7.1 %	7.5 %	6.8 %	5.8 %	8.9 %	6.5 %	6.6 %	2.8 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.343 ppb	0.233 ppb	221.803 ppb	0.416 ppb	107.997 %	0.018 ppb	0.079 ppb	113.569 %	0.262 ppb
Concentration per Run 1	2.278 ppb	0.260 ppb	217.569 ppb	0.443 ppb	101.247 %	0.017 ppb	0.084 ppb	105.900 %	0.267 ppb
Concentration per Run 2	2.331 ppb	0.213 ppb	221.858 ppb	0.398 ppb	112.562 %	0.019 ppb	0.069 ppb	116.830 %	0.281 ppb
Concentration per Run 3	2.420 ppb	0.226 ppb	225.982 ppb	0.406 ppb	110.183 %	0.018 ppb	0.086 ppb	117.977 %	0.238 ppb
Concentration RSD	3.1 %	10.4 %	1.9 %	5.9 %	5.5 %	4.4 %	11.7 %	5.9 %	8.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	86.924 ppb	115.990 %	117.815 %	-0.006 ppb	0.509 ppb	101.613 %
Concentration per Run 1	85.585 ppb	107.531 %	106.785 %	-0.010 ppb	0.506 ppb	93.259 %
Concentration per Run 2	89.211 ppb	121.305 %	123.389 %	-0.004 ppb	0.514 ppb	103.860 %
Concentration per Run 3	85.975 ppb	119.134 %	123.272 %	-0.005 ppb	0.507 ppb	107.719 %
Concentration RSD	2.3 %	6.4 %	8.1 %	52.9 %	0.9 %	7.4 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 18 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2341182-01 6020TL Rack 1
 Analysis started at: 8/1/2023 12:46:21 PM Vial 15

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	120.619 %	137.309 %	2.759 ppb	43,972.798 ppb	6,136.957 ppb	16,704.881 ppb	8,067.643 ppb	22,515.788 ppb	420.839 %
Concentration per Run 1	122.481 %	137.990 %	2.661 ppb	42,406.902 ppb	5,825.808 ppb	15,913.532 ppb	7,851.766 ppb	21,574.128 ppb	428.499 %
Concentration per Run 2	121.356 %	130.835 %	2.887 ppb	45,968.799 ppb	6,446.155 ppb	17,009.162 ppb	8,054.617 ppb	23,092.120 ppb	420.149 %
Concentration per Run 3	118.019 %	143.101 %	2.729 ppb	43,542.694 ppb	6,138.906 ppb	17,191.950 ppb	8,296.545 ppb	22,881.117 ppb	413.869 %
Concentration RSD	1.9 %	4.5 %	4.2 %	4.1 %	5.1 %	4.1 %	2.8 %	3.7 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	39.308 ppb	390.382 ppb	1,577.489 ppb	84,991.622 ppb	15.874 ppb	133.579 ppb	121.562 ppb	1,453.503 ppb	167.161 %
Concentration per Run 1	38.013 ppb	380.740 ppb	1,520.101 ppb	84,518.363 ppb	15.609 ppb	132.710 ppb	120.176 ppb	1,451.793 ppb	162.721 %
Concentration per Run 2	41.073 ppb	407.763 ppb	1,654.043 ppb	87,205.833 ppb	16.544 ppb	137.279 ppb	126.024 ppb	1,467.714 ppb	166.966 %
Concentration per Run 3	38.838 ppb	382.644 ppb	1,558.322 ppb	83,250.670 ppb	15.470 ppb	130.750 ppb	118.487 ppb	1,441.003 ppb	171.797 %
Concentration RSD	4.0 %	3.9 %	4.4 %	2.4 %	3.7 %	2.5 %	3.3 %	0.9 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	7.533 ppb	9.825 ppb	131.215 ppb	41.610 ppb	111.487 %	0.087 ppb	0.541 ppb	126.129 %	0.499 ppb
Concentration per Run 1	7.546 ppb	9.850 ppb	127.769 ppb	40.734 ppb	108.763 %	0.089 ppb	0.537 ppb	119.440 %	0.502 ppb
Concentration per Run 2	7.595 ppb	10.470 ppb	130.365 ppb	42.073 ppb	112.410 %	0.085 ppb	0.541 ppb	128.737 %	0.497 ppb
Concentration per Run 3	7.458 ppb	9.154 ppb	135.512 ppb	42.024 ppb	113.287 %	0.086 ppb	0.545 ppb	130.208 %	0.498 ppb
Concentration RSD	0.9 %	6.7 %	3.0 %	1.8 %	2.2 %	2.9 %	0.8 %	4.6 %	0.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	286.118 ppb	146.842 %	136.448 %	0.261 ppb	32.183 ppb	105.709 %
Concentration per Run 1	287.477 ppb	139.628 %	128.933 %	0.257 ppb	32.482 ppb	98.309 %
Concentration per Run 2	282.288 ppb	149.342 %	138.953 %	0.267 ppb	32.128 ppb	111.230 %
Concentration per Run 3	288.590 ppb	151.558 %	141.456 %	0.260 ppb	31.939 ppb	107.587 %
Concentration RSD	1.2 %	4.3 %	4.9 %	2.0 %	0.9 %	6.3 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 19 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2341182-02 6020TL Rack 1
 Analysis started at: 8/1/2023 12:50:48 PM Vial 16

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	110.365 %	111.755 %	1.186 ppb	65,342.674 ppb	7,149.244 ppb	11,939.093 ppb	13,008.686 ppb	37,057.052 ppb	330.126 %
Concentration per Run 1	113.000 %	111.925 %	1.239 ppb	63,307.822 ppb	6,856.996 ppb	11,534.776 ppb	12,827.814 ppb	36,469.126 ppb	341.230 %
Concentration per Run 2	112.405 %	102.726 %	1.147 ppb	67,947.112 ppb	7,367.380 ppb	12,135.082 ppb	13,519.258 ppb	38,303.715 ppb	334.867 %
Concentration per Run 3	105.690 %	120.613 %	1.171 ppb	64,773.090 ppb	7,223.357 ppb	12,147.422 ppb	12,678.985 ppb	36,398.315 ppb	314.282 %
Concentration RSD	3.7 %	8.0 %	4.0 %	3.6 %	3.7 %	2.9 %	3.4 %	2.9 %	4.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	18.783 ppb	400.916 ppb	7,609.564 ppb	84,325.936 ppb	57.432 ppb	153.980 ppb	144.895 ppb	2,094.818 ppb	147.635 %
Concentration per Run 1	18.697 ppb	401.030 ppb	7,619.694 ppb	85,749.272 ppb	58.881 ppb	156.708 ppb	149.514 ppb	2,149.147 ppb	136.941 %
Concentration per Run 2	19.373 ppb	414.806 ppb	7,488.261 ppb	84,309.226 ppb	58.160 ppb	155.624 ppb	144.257 ppb	2,081.285 ppb	146.737 %
Concentration per Run 3	18.279 ppb	386.913 ppb	7,720.737 ppb	82,919.309 ppb	55.256 ppb	149.607 ppb	140.914 ppb	2,054.024 ppb	159.228 %
Concentration RSD	2.9 %	3.5 %	1.5 %	1.7 %	3.3 %	2.5 %	3.0 %	2.3 %	7.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	5.332 ppb	11.471 ppb	201.165 ppb	34.273 ppb	98.824 %	0.095 ppb	1.039 ppb	113.543 %	0.362 ppb
Concentration per Run 1	5.524 ppb	12.225 ppb	200.752 ppb	35.050 ppb	92.753 %	0.095 ppb	1.062 ppb	105.479 %	0.371 ppb
Concentration per Run 2	5.274 ppb	11.273 ppb	195.708 ppb	33.212 ppb	100.587 %	0.098 ppb	1.027 ppb	114.508 %	0.355 ppb
Concentration per Run 3	5.197 ppb	10.917 ppb	207.034 ppb	34.559 ppb	103.131 %	0.091 ppb	1.029 ppb	120.643 %	0.360 ppb
Concentration RSD	3.2 %	5.9 %	2.8 %	2.8 %	5.5 %	3.8 %	1.9 %	6.7 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	501.828 ppb	141.703 %	131.579 %	0.634 ppb	92.869 ppb	93.332 %
Concentration per Run 1	506.951 ppb	131.945 %	120.658 %	0.631 ppb	91.980 ppb	86.450 %
Concentration per Run 2	490.415 ppb	141.655 %	131.236 %	0.643 ppb	93.686 ppb	94.450 %
Concentration per Run 3	508.118 ppb	151.509 %	142.843 %	0.627 ppb	92.942 ppb	99.095 %
Concentration RSD	2.0 %	6.9 %	8.4 %	1.3 %	0.9 %	6.9 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 20 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/1/2023 12:58:26 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.470 %	106.133 %	59.733 ppb	5,774.636 ppb	5,878.546 ppb	59.573 ppb	5,754.381 ppb	5,736.190 ppb	114.890 %
Concentration per Run 1	111.553 %	108.859 %	61.440 ppb	6,017.736 ppb	5,926.937 ppb	58.233 ppb	5,559.231 ppb	5,567.344 ppb	116.738 %
Concentration per Run 2	110.051 %	105.792 %	57.680 ppb	5,551.913 ppb	5,667.262 ppb	60.238 ppb	5,916.118 ppb	5,866.579 ppb	118.071 %
Concentration per Run 3	106.806 %	103.748 %	60.078 ppb	5,754.259 ppb	6,041.440 ppb	60.247 ppb	5,787.794 ppb	5,774.646 ppb	109.859 %
Recovery Percentage 1			99.554 %	96.244 %	97.976 %	99.288 %	95.906 %	95.603 %	
Concentration RSD	2.2 %	2.4 %	3.2 %	4.0 %	3.3 %	1.9 %	3.1 %	2.7 %	3.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.866 ppb	59.175 ppb	59.317 ppb	6,054.284 ppb	60.540 ppb	61.603 ppb	61.444 ppb	60.665 ppb	103.185 %
Concentration per Run 1	58.889 ppb	58.672 ppb	59.567 ppb	6,043.573 ppb	60.730 ppb	62.515 ppb	62.429 ppb	60.870 ppb	97.027 %
Concentration per Run 2	56.914 ppb	58.115 ppb	57.148 ppb	5,817.514 ppb	58.097 ppb	59.951 ppb	59.589 ppb	59.719 ppb	109.424 %
Concentration per Run 3	60.795 ppb	60.738 ppb	61.235 ppb	6,301.765 ppb	62.794 ppb	62.342 ppb	62.314 ppb	61.408 ppb	103.104 %
Recovery Percentage 1	98.110 %	98.625 %	98.861 %	100.905 %	100.901 %	102.671 %	102.407 %	101.109 %	
Concentration RSD	3.3 %	2.3 %	3.5 %	4.0 %	3.9 %	2.3 %	2.6 %	1.4 %	6.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.915 ppb	59.458 ppb	56.997 ppb	58.250 ppb	104.270 %	57.545 ppb	58.714 ppb	104.714 %	58.010 ppb
Concentration per Run 1	60.054 ppb	59.109 ppb	56.767 ppb	57.681 ppb	101.165 %	57.988 ppb	59.119 ppb	99.543 %	59.251 ppb
Concentration per Run 2	59.205 ppb	57.585 ppb	56.371 ppb	58.403 ppb	108.778 %	57.262 ppb	58.395 ppb	108.502 %	57.086 ppb
Concentration per Run 3	60.485 ppb	61.678 ppb	57.854 ppb	58.664 ppb	102.867 %	57.385 ppb	58.629 ppb	106.098 %	57.694 ppb
Recovery Percentage 1	99.858 %	99.096 %	94.995 %	97.083 %		95.908 %	97.857 %		96.684 %
Concentration RSD	1.1 %	3.5 %	1.3 %	0.9 %	3.8 %	0.7 %	0.6 %	4.4 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	57.647 ppb	107.359 %	107.230 %	57.119 ppb	58.829 ppb	104.129 %
Concentration per Run 1	58.453 ppb	102.080 %	101.186 %	57.327 ppb	59.331 ppb	97.483 %
Concentration per Run 2	57.557 ppb	111.174 %	111.543 %	56.949 ppb	58.642 ppb	106.544 %
Concentration per Run 3	56.930 ppb	108.822 %	108.962 %	57.081 ppb	58.514 ppb	108.358 %
Recovery Percentage 1	96.078 %			95.198 %	98.048 %	
Concentration RSD	1.3 %	4.4 %	5.0 %	0.3 %	0.7 %	5.6 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 21 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/1/2023 1:02:58 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.929 %	106.474 %	0.002 ppb	0.115 ppb	-0.031 ppb	-0.013 ppb	-3.878 ppb	-4.926 ppb	109.181 %
Concentration per Run 1	109.981 %	105.792 %	-0.001 ppb	-0.916 ppb	0.236 ppb	-0.061 ppb	-5.241 ppb	-5.618 ppb	113.636 %
Concentration per Run 2	107.552 %	104.259 %	0.011 ppb	0.676 ppb	-0.155 ppb	0.099 ppb	-2.963 ppb	-6.049 ppb	108.960 %
Concentration per Run 3	103.256 %	109.370 %	-0.003 ppb	0.585 ppb	-0.176 ppb	-0.078 ppb	-3.429 ppb	-3.112 ppb	104.949 %
Recovery Percentage 1			0.455 %	0.115 %	-0.045 %	-0.131 %	-3.878 %	-4.926 %	
Concentration RSD	3.2 %	2.5 %	345.5 %	776.2 %	741.2 %	745.7 %	31.0 %	32.2 %	4.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.009 ppb	-0.009 ppb	-0.010 ppb	5.240 ppb	-0.016 ppb	-0.034 ppb	0.030 ppb	-0.889 ppb	101.357 %
Concentration per Run 1	0.006 ppb	-0.010 ppb	-0.034 ppb	5.291 ppb	-0.020 ppb	-0.031 ppb	0.019 ppb	-0.890 ppb	100.356 %
Concentration per Run 2	-0.003 ppb	-0.001 ppb	0.017 ppb	6.316 ppb	-0.007 ppb	-0.033 ppb	0.031 ppb	-0.870 ppb	100.152 %
Concentration per Run 3	0.024 ppb	-0.015 ppb	-0.013 ppb	4.113 ppb	-0.020 ppb	-0.037 ppb	0.041 ppb	-0.908 ppb	103.562 %
Recovery Percentage 1	0.175 %	-0.868 %	-1.024 %	10.480 %	-3.137 %	-1.694 %	3.039 %	-17.785 %	
Concentration RSD	158.5 %	82.1 %	249.8 %	21.0 %	50.5 %	8.9 %	35.0 %	2.1 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.011 ppb	0.021 ppb	-0.003 ppb	0.121 ppb	101.818 %	0.008 ppb	0.002 ppb	99.535 %	0.013 ppb
Concentration per Run 1	0.017 ppb	0.020 ppb	-0.003 ppb	0.124 ppb	99.098 %	0.009 ppb	0.001 ppb	92.913 %	0.010 ppb
Concentration per Run 2	0.008 ppb	0.021 ppb	-0.002 ppb	0.144 ppb	102.734 %	0.009 ppb	0.002 ppb	104.894 %	0.015 ppb
Concentration per Run 3	0.007 ppb	0.021 ppb	-0.003 ppb	0.095 ppb	103.620 %	0.005 ppb	0.003 ppb	100.798 %	0.013 ppb
Recovery Percentage 1	2.119 %	0.413 %	-0.028 %	6.050 %		1.876 %	1.015 %		0.315 %
Concentration RSD	49.3 %	2.8 %	14.6 %	20.6 %	2.4 %	31.6 %	60.4 %	6.1 %	17.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.009 ppb	102.434 %	101.594 %	0.173 ppb	0.002 ppb	102.850 %
Concentration per Run 1	-0.005 ppb	97.057 %	95.566 %	0.175 ppb	0.003 ppb	96.168 %
Concentration per Run 2	-0.006 ppb	105.498 %	103.788 %	0.202 ppb	0.002 ppb	105.600 %
Concentration per Run 3	-0.015 ppb	104.747 %	105.427 %	0.142 ppb	0.000 ppb	106.784 %
Recovery Percentage 1	-1.795 %			17.299 %	0.152 %	
Concentration RSD	60.0 %	4.6 %	5.2 %	17.4 %	111.8 %	5.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 22 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: WG1805054-1 6020TL Rack: 1
 Analysis started at: 8/1/2023 1:08:10 PM Vial: 17

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.539 %	109.881 %	-0.008 ppb	-2.161 ppb	1.793 ppb	10.555 ppb	-5.800 ppb	-4.376 ppb	111.637 %
Concentration per Run 1	111.231 %	105.281 %	-0.008 ppb	-1.725 ppb	1.499 ppb	10.078 ppb	-3.391 ppb	-4.439 ppb	113.877 %
Concentration per Run 2	110.282 %	106.303 %	-0.010 ppb	-2.620 ppb	2.141 ppb	11.046 ppb	-6.793 ppb	-2.968 ppb	116.396 %
Concentration per Run 3	107.104 %	118.058 %	-0.005 ppb	-2.140 ppb	1.740 ppb	10.543 ppb	-7.218 ppb	-5.722 ppb	104.640 %
Concentration RSD	2.0 %	6.5 %	34.8 %	20.7 %	18.1 %	4.6 %	36.2 %	31.5 %	5.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.030 ppb	0.010 ppb	-0.048 ppb	0.138 ppb	-0.024 ppb	-0.050 ppb	0.420 ppb	-1.052 ppb	106.644 %
Concentration per Run 1	-0.032 ppb	0.011 ppb	-0.048 ppb	0.043 ppb	-0.027 ppb	-0.035 ppb	0.446 ppb	-1.071 ppb	103.154 %
Concentration per Run 2	-0.042 ppb	0.008 ppb	-0.049 ppb	0.433 ppb	-0.027 ppb	-0.048 ppb	0.394 ppb	-1.046 ppb	110.227 %
Concentration per Run 3	-0.017 ppb	0.011 ppb	-0.046 ppb	-0.062 ppb	-0.019 ppb	-0.066 ppb	0.419 ppb	-1.037 ppb	106.551 %
Concentration RSD	42.1 %	15.8 %	3.5 %	189.2 %	20.1 %	31.5 %	6.2 %	1.7 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.001 ppb	0.011 ppb	0.008 ppb	0.019 ppb	106.461 %	0.000 ppb	-0.001 ppb	107.364 %	0.004 ppb
Concentration per Run 1	-0.009 ppb	0.027 ppb	0.006 ppb	0.018 ppb	101.555 %	-0.001 ppb	-0.001 ppb	101.741 %	0.005 ppb
Concentration per Run 2	0.001 ppb	0.014 ppb	0.007 ppb	0.024 ppb	109.443 %	-0.001 ppb	-0.001 ppb	108.767 %	0.005 ppb
Concentration per Run 3	0.005 ppb	-0.008 ppb	0.011 ppb	0.016 ppb	108.385 %	0.000 ppb	-0.001 ppb	111.586 %	0.002 ppb
Concentration RSD	577.2 %	162.6 %	31.6 %	22.2 %	4.0 %	84.1 %	0.0 %	4.7 %	43.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.030 ppb	107.639 %	107.823 %	0.025 ppb	-0.001 ppb	108.303 %
Concentration per Run 1	-0.048 ppb	101.570 %	100.986 %	0.015 ppb	0.001 ppb	102.162 %
Concentration per Run 2	-0.023 ppb	108.665 %	109.977 %	0.033 ppb	-0.002 ppb	107.986 %
Concentration per Run 3	-0.019 ppb	112.684 %	112.505 %	0.027 ppb	-0.002 ppb	114.761 %
Concentration RSD	53.8 %	5.2 %	5.6 %	36.3 %	243.8 %	5.8 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 23 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1805054-2D5 6020TL Rack: 1
 Analysis started at: 8/1/2023 1:12:38 PM Vial: 18

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	110.860 %	101.704 %	10.127 ppb	1,973.864 ppb	2,077.556 ppb	430.323 ppb	2,050.347 ppb	1,837.130 ppb	113.998 %
Concentration per Run 1	114.908 %	90.460 %	10.109 ppb	2,062.801 ppb	2,203.506 ppb	441.894 ppb	2,133.041 ppb	1,902.461 ppb	117.706 %
Concentration per Run 2	109.348 %	101.704 %	10.378 ppb	2,026.627 ppb	2,126.200 ppb	431.457 ppb	2,011.628 ppb	1,769.875 ppb	112.011 %
Concentration per Run 3	108.326 %	112.947 %	9.894 ppb	1,832.164 ppb	1,902.963 ppb	417.618 ppb	2,006.371 ppb	1,839.055 ppb	112.276 %
Concentration RSD	3.2 %	11.1 %	2.4 %	6.3 %	7.5 %	2.8 %	3.5 %	3.6 %	2.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	99.612 ppb	40.210 ppb	104.117 ppb	202.170 ppb	102.026 ppb	101.906 ppb	52.085 ppb	100.619 ppb	107.348 %
Concentration per Run 1	98.666 ppb	39.925 ppb	103.407 ppb	197.649 ppb	100.804 ppb	100.822 ppb	50.348 ppb	99.142 ppb	106.498 %
Concentration per Run 2	105.899 ppb	41.574 ppb	106.165 ppb	207.037 ppb	105.719 ppb	106.326 ppb	53.700 ppb	101.588 ppb	106.815 %
Concentration per Run 3	94.270 ppb	39.131 ppb	102.779 ppb	201.825 ppb	99.556 ppb	98.570 ppb	52.207 ppb	101.126 ppb	108.730 %
Concentration RSD	5.9 %	3.1 %	1.7 %	2.3 %	3.2 %	3.9 %	3.2 %	1.3 %	1.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	24.659 ppb	23.517 ppb	195.542 ppb	195.887 ppb	106.124 %	10.167 ppb	11.046 ppb	104.025 %	93.855 ppb
Concentration per Run 1	24.313 ppb	22.368 ppb	193.600 ppb	195.782 ppb	101.785 %	10.176 ppb	11.101 ppb	99.154 %	92.691 ppb
Concentration per Run 2	24.571 ppb	23.997 ppb	197.843 ppb	196.870 ppb	105.697 %	10.245 ppb	11.107 ppb	105.602 %	94.498 ppb
Concentration per Run 3	25.095 ppb	24.186 ppb	195.181 ppb	195.010 ppb	110.889 %	10.079 ppb	10.930 ppb	107.320 %	94.376 ppb
Concentration RSD	1.6 %	4.2 %	1.1 %	0.5 %	4.3 %	0.8 %	0.9 %	4.1 %	1.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	395.995 ppb	107.963 %	107.524 %	22.615 ppb	107.706 ppb	104.139 %
Concentration per Run 1	396.723 ppb	101.408 %	99.766 %	22.364 ppb	107.716 ppb	98.041 %
Concentration per Run 2	395.910 ppb	109.543 %	109.327 %	22.736 ppb	108.054 ppb	104.829 %
Concentration per Run 3	395.352 ppb	112.940 %	113.479 %	22.746 ppb	107.347 ppb	109.548 %
Concentration RSD	0.2 %	5.5 %	6.5 %	1.0 %	0.3 %	5.6 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 24 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2340896-01D10 6020TL Rack 1
 Analysis started at: 8/1/2023 1:17:07 PM Vial 19

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.304 %	100.511 %	0.037 ppb	11,359.023 ppb	6,129.365 ppb	382.012 ppb	38,632.995 ppb	22,868.042 ppb	113.244 %
Concentration per Run 1	105.886 %	106.814 %	0.033 ppb	10,582.822 ppb	5,690.360 ppb	361.867 ppb	36,820.663 ppb	21,577.879 ppb	118.269 %
Concentration per Run 2	101.831 %	101.704 %	0.037 ppb	11,212.330 ppb	6,077.301 ppb	373.882 ppb	38,201.995 ppb	22,876.585 ppb	110.026 %
Concentration per Run 3	99.196 %	93.015 %	0.041 ppb	12,281.918 ppb	6,620.435 ppb	410.285 ppb	40,876.328 ppb	24,149.662 ppb	111.437 %
Concentration RSD	3.3 %	6.9 %	11.7 %	7.6 %	7.6 %	6.6 %	5.3 %	5.6 %	3.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	19.897 ppb	5.186 ppb	867.630 ppb	8,474.142 ppb	3.537 ppb	5.334 ppb	11.722 ppb	32.007 ppb	96.514 %
Concentration per Run 1	19.252 ppb	4.999 ppb	841.833 ppb	8,352.558 ppb	3.464 ppb	5.192 ppb	11.645 ppb	31.918 ppb	96.444 %
Concentration per Run 2	20.443 ppb	5.293 ppb	871.808 ppb	8,512.904 ppb	3.532 ppb	5.554 ppb	11.780 ppb	31.852 ppb	92.218 %
Concentration per Run 3	19.997 ppb	5.268 ppb	889.249 ppb	8,556.965 ppb	3.614 ppb	5.255 ppb	11.740 ppb	32.252 ppb	100.880 %
Concentration RSD	3.0 %	3.1 %	2.8 %	1.3 %	2.1 %	3.6 %	0.6 %	0.7 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.879 ppb	0.687 ppb	116.605 ppb	0.653 ppb	93.536 %	0.001 ppb	0.065 ppb	95.734 %	0.598 ppb
Concentration per Run 1	2.702 ppb	0.667 ppb	117.379 ppb	0.650 ppb	90.963 %	0.002 ppb	0.071 ppb	91.776 %	0.653 ppb
Concentration per Run 2	3.000 ppb	0.505 ppb	117.692 ppb	0.674 ppb	90.651 %	0.003 ppb	0.070 ppb	95.556 %	0.601 ppb
Concentration per Run 3	2.936 ppb	0.888 ppb	114.744 ppb	0.634 ppb	98.995 %	0.000 ppb	0.055 ppb	99.869 %	0.540 ppb
Concentration RSD	5.5 %	28.0 %	1.4 %	3.0 %	5.1 %	123.2 %	13.2 %	4.2 %	9.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	21.623 ppb	101.606 %	100.613 %	0.141 ppb	2.037 ppb	91.588 %
Concentration per Run 1	22.211 ppb	97.036 %	95.511 %	0.142 ppb	2.085 ppb	86.012 %
Concentration per Run 2	21.208 ppb	98.771 %	99.016 %	0.138 ppb	2.010 ppb	91.054 %
Concentration per Run 3	21.449 ppb	109.013 %	107.314 %	0.142 ppb	2.017 ppb	97.699 %
Concentration RSD	2.4 %	6.4 %	6.0 %	2.0 %	2.0 %	6.4 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 25 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2341024-01 6020TL Rack 1
 Analysis started at: 8/1/2023 1:21:36 PM Vial 20

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	110.584 %	104.429 %	-0.016 ppb	-0.331 ppb	1.579 ppb	1.907 ppb	-3.312 ppb	-4.863 ppb	114.487 %
Concentration per Run 1	114.517 %	102.215 %	-0.016 ppb	0.147 ppb	2.033 ppb	1.679 ppb	-4.006 ppb	-4.248 ppb	117.640 %
Concentration per Run 2	109.224 %	107.325 %	-0.018 ppb	-0.512 ppb	1.537 ppb	1.863 ppb	-4.074 ppb	-4.044 ppb	115.091 %
Concentration per Run 3	108.012 %	103.748 %	-0.015 ppb	-0.626 ppb	1.167 ppb	2.178 ppb	-1.857 ppb	-6.298 ppb	110.731 %
Concentration RSD	3.1 %	2.5 %	11.0 %	126.2 %	27.5 %	13.2 %	38.1 %	25.6 %	3.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.006 ppb	0.040 ppb	-0.060 ppb	-0.033 ppb	-0.016 ppb	-0.062 ppb	0.623 ppb	-0.819 ppb	106.186 %
Concentration per Run 1	0.017 ppb	0.039 ppb	-0.076 ppb	0.587 ppb	-0.010 ppb	-0.045 ppb	0.597 ppb	-0.849 ppb	102.798 %
Concentration per Run 2	0.000 ppb	0.039 ppb	-0.054 ppb	-0.138 ppb	-0.026 ppb	-0.072 ppb	0.653 ppb	-0.813 ppb	104.974 %
Concentration per Run 3	0.002 ppb	0.043 ppb	-0.049 ppb	-0.548 ppb	-0.013 ppb	-0.069 ppb	0.618 ppb	-0.794 ppb	110.786 %
Concentration RSD	150.1 %	5.3 %	24.2 %	1,727.1 %	52.6 %	24.1 %	4.5 %	3.4 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.001 ppb	0.003 ppb	-0.001 ppb	0.084 ppb	107.053 %	-0.002 ppb	-0.001 ppb	107.925 %	0.107 ppb
Concentration per Run 1	0.002 ppb	-0.009 ppb	-0.002 ppb	0.063 ppb	103.093 %	-0.002 ppb	-0.001 ppb	102.944 %	0.105 ppb
Concentration per Run 2	-0.005 ppb	0.010 ppb	0.001 ppb	0.102 ppb	108.222 %	-0.002 ppb	-0.001 ppb	109.785 %	0.115 ppb
Concentration per Run 3	-0.001 ppb	0.009 ppb	0.000 ppb	0.085 ppb	109.843 %	-0.002 ppb	-0.001 ppb	111.046 %	0.099 ppb
Concentration RSD	330.4 %	308.8 %	282.3 %	23.6 %	3.3 %	11.4 %	0.0 %	4.0 %	7.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.022 ppb	107.183 %	107.728 %	-0.006 ppb	0.044 ppb	106.753 %
Concentration per Run 1	-0.017 ppb	100.593 %	101.069 %	-0.012 ppb	0.044 ppb	100.232 %
Concentration per Run 2	-0.027 ppb	109.572 %	109.484 %	-0.004 ppb	0.043 ppb	107.910 %
Concentration per Run 3	-0.022 ppb	111.383 %	112.630 %	-0.003 ppb	0.044 ppb	112.115 %
Concentration RSD	23.8 %	5.4 %	5.5 %	76.7 %	1.7 %	5.6 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 26 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2339069-01D10 2008TL Rack 1
 Analysis started at: 8/1/2023 1:26:05 PM Vial 21

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.029 %	103.918 %	0.003 ppb	555,968.452 ppb	925.200 ppb	160.991 ppb	711.195 ppb	1,744.116 ppb	88.359 %
Concentration per Run 1	85.198 %	101.192 %	0.008 ppb	575,215.666 ppb	965.794 ppb	167.428 ppb	723.865 ppb	1,758.472 ppb	91.141 %
Concentration per Run 2	82.047 %	107.325 %	0.000 ppb	512,510.132 ppb	863.008 ppb	151.044 ppb	677.270 ppb	1,701.663 ppb	88.635 %
Concentration per Run 3	78.841 %	103.237 %	0.000 ppb	580,179.558 ppb	946.800 ppb	164.502 ppb	732.449 ppb	1,772.214 ppb	85.300 %
Concentration RSD	3.9 %	3.0 %	176.2 %	6.8 %	5.9 %	5.4 %	4.2 %	2.1 %	3.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.848 ppb	0.592 ppb	8.370 ppb	348.165 ppb	0.126 ppb	0.524 ppb	3.012 ppb	6.649 ppb	85.671 %
Concentration per Run 1	0.925 ppb	0.604 ppb	8.693 ppb	349.687 ppb	0.115 ppb	0.574 ppb	3.026 ppb	6.891 ppb	83.124 %
Concentration per Run 2	0.843 ppb	0.539 ppb	7.781 ppb	329.309 ppb	0.142 ppb	0.437 ppb	2.867 ppb	6.177 ppb	85.386 %
Concentration per Run 3	0.777 ppb	0.634 ppb	8.635 ppb	365.498 ppb	0.119 ppb	0.562 ppb	3.142 ppb	6.878 ppb	88.502 %
Concentration RSD	8.7 %	8.2 %	6.1 %	5.2 %	11.6 %	14.5 %	4.6 %	6.1 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.114 ppb	0.096 ppb	12.582 ppb	0.358 ppb	78.570 %	0.036 ppb	0.048 ppb	82.807 %	0.110 ppb
Concentration per Run 1	1.184 ppb	0.123 ppb	12.423 ppb	0.386 ppb	76.743 %	0.031 ppb	0.043 ppb	79.724 %	0.107 ppb
Concentration per Run 2	1.065 ppb	0.042 ppb	12.431 ppb	0.355 ppb	75.050 %	0.038 ppb	0.047 ppb	81.141 %	0.108 ppb
Concentration per Run 3	1.094 ppb	0.123 ppb	12.891 ppb	0.334 ppb	83.917 %	0.040 ppb	0.055 ppb	87.555 %	0.114 ppb
Concentration RSD	5.6 %	48.7 %	2.1 %	7.3 %	6.0 %	12.5 %	13.0 %	5.0 %	3.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2.496 ppb	93.764 %	94.787 %	-0.003 ppb	0.977 ppb	74.822 %
Concentration per Run 1	2.530 ppb	90.531 %	89.451 %	-0.007 ppb	0.985 ppb	71.655 %
Concentration per Run 2	2.345 ppb	89.332 %	91.840 %	0.001 ppb	0.987 ppb	71.383 %
Concentration per Run 3	2.612 ppb	101.429 %	103.070 %	-0.002 ppb	0.958 ppb	81.428 %
Concentration RSD	5.5 %	7.1 %	7.7 %	131.1 %	1.7 %	7.6 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 27 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2340590-03D10 6020TL Rack: 1
 Analysis started at: 8/1/2023 1:30:34 PM Vial: 22

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.843 %	108.348 %	-0.014 ppb	59,445.805 ppb	3,297.591 ppb	1.043 ppb	496.735 ppb	19,066.155 ppb	110.790 %
Concentration per Run 1	109.513 %	105.792 %	-0.016 ppb	59,085.296 ppb	3,285.593 ppb	1.026 ppb	499.428 ppb	18,502.013 ppb	113.975 %
Concentration per Run 2	107.810 %	120.102 %	-0.010 ppb	53,709.894 ppb	2,977.617 ppb	0.871 ppb	471.944 ppb	18,722.731 ppb	113.154 %
Concentration per Run 3	103.207 %	99.148 %	-0.015 ppb	65,542.227 ppb	3,629.562 ppb	1.232 ppb	518.834 ppb	19,973.720 ppb	105.242 %
Concentration RSD	3.1 %	9.9 %	22.4 %	10.0 %	9.9 %	17.4 %	4.7 %	4.2 %	4.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.024 ppb	0.029 ppb	1.101 ppb	3.492 ppb	0.029 ppb	0.596 ppb	0.214 ppb	-0.552 ppb	99.603 %
Concentration per Run 1	0.036 ppb	0.034 ppb	1.049 ppb	3.181 ppb	0.021 ppb	0.561 ppb	0.214 ppb	-0.567 ppb	96.274 %
Concentration per Run 2	0.012 ppb	0.028 ppb	1.107 ppb	3.742 ppb	0.015 ppb	0.562 ppb	0.216 ppb	-0.604 ppb	105.495 %
Concentration per Run 3	0.025 ppb	0.026 ppb	1.147 ppb	3.553 ppb	0.053 ppb	0.666 ppb	0.213 ppb	-0.484 ppb	97.039 %
Concentration RSD	50.2 %	13.6 %	4.5 %	8.2 %	69.4 %	10.1 %	0.8 %	11.2 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.026 ppb	0.061 ppb	123.742 ppb	0.093 ppb	96.896 %	0.001 ppb	0.001 ppb	98.494 %	0.074 ppb
Concentration per Run 1	0.029 ppb	0.073 ppb	124.909 ppb	0.086 ppb	92.499 %	0.000 ppb	0.002 ppb	93.689 %	0.074 ppb
Concentration per Run 2	0.020 ppb	0.062 ppb	122.656 ppb	0.111 ppb	101.002 %	0.001 ppb	0.001 ppb	100.703 %	0.069 ppb
Concentration per Run 3	0.028 ppb	0.048 ppb	123.662 ppb	0.081 ppb	97.187 %	0.001 ppb	0.001 ppb	101.090 %	0.078 ppb
Concentration RSD	20.0 %	20.1 %	0.9 %	17.6 %	4.4 %	56.6 %	27.4 %	4.2 %	6.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	9.905 ppb	101.073 %	100.918 %	0.005 ppb	0.012 ppb	90.062 %
Concentration per Run 1	10.098 ppb	96.490 %	95.033 %	0.002 ppb	0.013 ppb	83.885 %
Concentration per Run 2	9.884 ppb	104.248 %	105.470 %	0.008 ppb	0.011 ppb	92.576 %
Concentration per Run 3	9.734 ppb	102.480 %	102.251 %	0.005 ppb	0.012 ppb	93.726 %
Concentration RSD	1.8 %	4.0 %	5.3 %	57.4 %	8.2 %	6.0 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 28 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2340590-04D10 6020TL Rack 1
 Analysis started at: 8/1/2023 1:35:04 PM Vial 23

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.576 %	103.066 %	-0.015 ppb	60,469.383 ppb	3,338.178 ppb	1.163 ppb	516.673 ppb	20,054.583 ppb	110.171 %
Concentration per Run 1	109.027 %	107.836 %	-0.022 ppb	61,168.010 ppb	3,406.489 ppb	1.372 ppb	544.397 ppb	20,776.174 ppb	113.095 %
Concentration per Run 2	104.019 %	106.814 %	-0.018 ppb	58,931.875 ppb	3,278.868 ppb	1.213 ppb	488.007 ppb	18,871.059 ppb	110.200 %
Concentration per Run 3	103.681 %	94.549 %	-0.004 ppb	61,308.264 ppb	3,329.177 ppb	0.904 ppb	517.614 ppb	20,516.515 ppb	107.217 %
Concentration RSD	2.8 %	7.2 %	65.3 %	2.2 %	1.9 %	20.5 %	5.5 %	5.2 %	2.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.026 ppb	0.015 ppb	0.980 ppb	0.880 ppb	0.038 ppb	0.597 ppb	0.127 ppb	-0.124 ppb	103.761 %
Concentration per Run 1	0.037 ppb	0.015 ppb	1.027 ppb	1.622 ppb	0.034 ppb	0.557 ppb	0.135 ppb	-0.126 ppb	107.123 %
Concentration per Run 2	0.017 ppb	0.014 ppb	1.018 ppb	0.268 ppb	0.050 ppb	0.648 ppb	0.119 ppb	-0.136 ppb	107.072 %
Concentration per Run 3	0.023 ppb	0.015 ppb	0.896 ppb	0.750 ppb	0.029 ppb	0.587 ppb	0.127 ppb	-0.110 ppb	97.089 %
Concentration RSD	40.2 %	5.0 %	7.5 %	78.0 %	28.7 %	7.8 %	6.1 %	10.3 %	5.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.023 ppb	0.037 ppb	125.122 ppb	0.085 ppb	99.760 %	-0.001 ppb	0.001 ppb	103.415 %	0.059 ppb
Concentration per Run 1	0.022 ppb	0.063 ppb	130.154 ppb	0.080 ppb	98.537 %	-0.001 ppb	0.001 ppb	105.754 %	0.056 ppb
Concentration per Run 2	0.016 ppb	0.025 ppb	120.916 ppb	0.085 ppb	100.946 %	0.000 ppb	0.001 ppb	100.208 %	0.058 ppb
Concentration per Run 3	0.032 ppb	0.021 ppb	124.296 ppb	0.090 ppb	99.796 %	-0.001 ppb	0.001 ppb	104.285 %	0.063 ppb
Concentration RSD	34.2 %	63.8 %	3.7 %	5.7 %	1.2 %	47.0 %	28.2 %	2.8 %	6.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	9.758 ppb	105.690 %	106.774 %	0.001 ppb	0.008 ppb	93.540 %
Concentration per Run 1	10.020 ppb	102.050 %	104.424 %	-0.003 ppb	0.007 ppb	89.775 %
Concentration per Run 2	9.579 ppb	107.740 %	107.811 %	0.002 ppb	0.010 ppb	94.200 %
Concentration per Run 3	9.674 ppb	107.280 %	108.088 %	0.005 ppb	0.008 ppb	96.646 %
Concentration RSD	2.4 %	3.0 %	1.9 %	330.5 %	20.3 %	3.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 29 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2340590-05D10 6020TL Rack 1
 Analysis started at: 8/1/2023 1:39:34 PM Vial 24

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.162 %	111.755 %	-0.015 ppb	58,626.203 ppb	4,230.413 ppb	1.781 ppb	826.809 ppb	47,708.639 ppb	107.113 %
Concentration per Run 1	106.630 %	108.348 %	-0.021 ppb	61,617.790 ppb	4,511.789 ppb	2.100 ppb	857.428 ppb	50,072.670 ppb	110.895 %
Concentration per Run 2	104.190 %	123.169 %	-0.009 ppb	53,580.452 ppb	3,870.829 ppb	1.908 ppb	827.702 ppb	46,818.869 ppb	107.774 %
Concentration per Run 3	101.665 %	103.748 %	-0.015 ppb	60,680.367 ppb	4,308.621 ppb	1.336 ppb	795.297 ppb	46,234.379 ppb	102.670 %
Concentration RSD	2.4 %	9.1 %	38.6 %	7.5 %	7.7 %	22.3 %	3.8 %	4.3 %	3.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.022 ppb	0.007 ppb	134.071 ppb	1,320.793 ppb	1.534 ppb	1.115 ppb	0.025 ppb	-0.320 ppb	98.588 %
Concentration per Run 1	0.035 ppb	0.009 ppb	137.678 ppb	1,342.215 ppb	1.460 ppb	1.211 ppb	0.021 ppb	-0.317 ppb	100.916 %
Concentration per Run 2	0.001 ppb	0.001 ppb	130.219 ppb	1,289.207 ppb	1.536 ppb	0.912 ppb	0.025 ppb	-0.293 ppb	94.137 %
Concentration per Run 3	0.030 ppb	0.011 ppb	134.317 ppb	1,330.955 ppb	1.605 ppb	1.224 ppb	0.029 ppb	-0.349 ppb	100.712 %
Concentration RSD	82.0 %	78.7 %	2.8 %	2.1 %	4.7 %	15.8 %	16.0 %	8.8 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.172 ppb	0.025 ppb	249.050 ppb	0.027 ppb	93.446 %	-0.001 ppb	0.001 ppb	99.485 %	0.021 ppb
Concentration per Run 1	0.174 ppb	0.037 ppb	257.630 ppb	0.014 ppb	91.876 %	-0.002 ppb	0.001 ppb	102.063 %	0.018 ppb
Concentration per Run 2	0.189 ppb	0.039 ppb	246.267 ppb	0.043 ppb	96.838 %	-0.001 ppb	0.002 ppb	101.266 %	0.021 ppb
Concentration per Run 3	0.154 ppb	-0.001 ppb	243.254 ppb	0.024 ppb	91.625 %	0.000 ppb	0.002 ppb	95.126 %	0.025 ppb
Concentration RSD	10.2 %	91.5 %	3.0 %	55.1 %	3.1 %	114.3 %	35.7 %	3.8 %	16.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3.151 ppb	99.923 %	100.864 %	-0.014 ppb	0.021 ppb	90.234 %
Concentration per Run 1	3.190 ppb	99.195 %	101.301 %	-0.017 ppb	0.021 ppb	88.136 %
Concentration per Run 2	3.108 ppb	102.996 %	103.596 %	-0.013 ppb	0.019 ppb	92.875 %
Concentration per Run 3	3.155 ppb	97.580 %	97.694 %	-0.012 ppb	0.023 ppb	89.690 %
Concentration RSD	1.3 %	2.8 %	3.0 %	19.4 %	8.3 %	2.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 30 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2338653-02D20 6020TL Rack 1
 Analysis started at: 8/1/2023 1:44:04 PM Vial 25

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	108.599 %	103.748 %	-0.015 ppb	139.705 ppb	352.664 ppb	0.962 ppb	120.090 ppb	3,269.144 ppb	109.323 %
Concentration per Run 1	110.426 %	106.303 %	-0.017 ppb	135.225 ppb	349.631 ppb	1.212 ppb	125.030 ppb	3,231.224 ppb	110.637 %
Concentration per Run 2	110.052 %	104.259 %	-0.009 ppb	135.336 ppb	340.983 ppb	0.999 ppb	114.189 ppb	3,233.758 ppb	112.758 %
Concentration per Run 3	105.318 %	100.681 %	-0.018 ppb	148.556 ppb	367.379 ppb	0.673 ppb	121.052 ppb	3,342.449 ppb	104.574 %
Concentration RSD	2.6 %	2.7 %	33.9 %	5.5 %	3.8 %	28.2 %	4.6 %	1.9 %	3.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.023 ppb	0.007 ppb	609.570 ppb	99.893 ppb	0.073 ppb	-0.004 ppb	0.044 ppb	4.552 ppb	105.831 %
Concentration per Run 1	0.020 ppb	0.004 ppb	593.171 ppb	93.816 ppb	0.079 ppb	-0.003 ppb	0.055 ppb	4.268 ppb	113.013 %
Concentration per Run 2	0.007 ppb	0.004 ppb	601.086 ppb	98.209 ppb	0.065 ppb	-0.006 ppb	0.035 ppb	4.597 ppb	105.342 %
Concentration per Run 3	0.042 ppb	0.013 ppb	634.453 ppb	107.654 ppb	0.077 ppb	-0.003 ppb	0.043 ppb	4.792 ppb	99.136 %
Concentration RSD	78.0 %	75.4 %	3.6 %	7.1 %	10.3 %	47.7 %	22.7 %	5.8 %	6.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.332 ppb	0.027 ppb	10.074 ppb	0.040 ppb	101.652 %	-0.001 ppb	0.119 ppb	103.939 %	0.015 ppb
Concentration per Run 1	0.348 ppb	0.013 ppb	10.321 ppb	0.042 ppb	99.789 %	-0.001 ppb	0.115 ppb	105.439 %	0.016 ppb
Concentration per Run 2	0.316 ppb	0.027 ppb	9.954 ppb	0.034 ppb	102.339 %	0.000 ppb	0.123 ppb	104.204 %	0.011 ppb
Concentration per Run 3	0.333 ppb	0.040 ppb	9.946 ppb	0.044 ppb	102.828 %	-0.001 ppb	0.120 ppb	102.174 %	0.019 ppb
Concentration RSD	4.8 %	48.8 %	2.1 %	12.9 %	1.6 %	86.1 %	3.5 %	1.6 %	27.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3.652 ppb	103.885 %	103.917 %	-0.017 ppb	0.006 ppb	101.692 %
Concentration per Run 1	3.775 ppb	100.592 %	101.453 %	-0.020 ppb	0.008 ppb	96.200 %
Concentration per Run 2	3.670 ppb	103.150 %	103.160 %	-0.015 ppb	0.007 ppb	101.586 %
Concentration per Run 3	3.513 ppb	107.911 %	107.139 %	-0.016 ppb	0.005 ppb	107.289 %
Concentration RSD	3.6 %	3.6 %	2.8 %	14.2 %	19.1 %	5.5 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 31 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/1/2023 1:50:37 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.729 %	100.170 %	59.931 ppb	5,881.236 ppb	6,080.763 ppb	62.729 ppb	5,836.477 ppb	5,885.480 ppb	113.017 %
Concentration per Run 1	109.462 %	93.526 %	61.229 ppb	6,138.432 ppb	6,348.706 ppb	65.087 ppb	6,036.900 ppb	6,025.293 ppb	115.525 %
Concentration per Run 2	108.808 %	108.348 %	57.919 ppb	5,468.615 ppb	5,578.009 ppb	60.459 ppb	5,721.957 ppb	5,757.526 ppb	115.463 %
Concentration per Run 3	104.917 %	98.637 %	60.644 ppb	6,036.663 ppb	6,315.574 ppb	62.642 ppb	5,750.575 ppb	5,873.621 ppb	108.062 %
Recovery Percentage 1			99.885 %	98.021 %	101.346 %	104.549 %	97.275 %	98.091 %	
Concentration RSD	2.3 %	7.5 %	2.9 %	6.1 %	7.2 %	3.7 %	3.0 %	2.3 %	3.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.222 ppb	59.994 ppb	60.839 ppb	6,152.041 ppb	61.864 ppb	62.227 ppb	62.541 ppb	62.666 ppb	99.621 %
Concentration per Run 1	59.432 ppb	61.709 ppb	62.332 ppb	6,349.936 ppb	62.720 ppb	63.438 ppb	65.611 ppb	64.166 ppb	95.274 %
Concentration per Run 2	57.327 ppb	56.878 ppb	58.494 ppb	5,898.790 ppb	60.006 ppb	60.384 ppb	61.049 ppb	61.546 ppb	101.610 %
Concentration per Run 3	60.906 ppb	61.397 ppb	61.691 ppb	6,207.396 ppb	62.867 ppb	62.860 ppb	60.962 ppb	62.286 ppb	101.978 %
Recovery Percentage 1	98.703 %	99.991 %	101.398 %	102.534 %	103.107 %	103.712 %	104.235 %	104.444 %	
Concentration RSD	3.0 %	4.5 %	3.4 %	3.7 %	2.6 %	2.6 %	4.3 %	2.2 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.414 ppb	60.185 ppb	57.734 ppb	57.802 ppb	99.319 %	57.480 ppb	58.752 ppb	101.391 %	57.888 ppb
Concentration per Run 1	60.946 ppb	59.900 ppb	56.606 ppb	57.865 ppb	93.078 %	58.288 ppb	58.770 ppb	94.803 %	58.043 ppb
Concentration per Run 2	62.506 ppb	58.994 ppb	57.510 ppb	56.613 ppb	104.491 %	56.897 ppb	57.789 ppb	104.958 %	56.339 ppb
Concentration per Run 3	60.790 ppb	61.661 ppb	59.086 ppb	58.926 ppb	100.387 %	57.255 ppb	59.697 ppb	104.413 %	59.282 ppb
Recovery Percentage 1	102.357 %	100.308 %	96.223 %	96.336 %		95.800 %	97.920 %		96.480 %
Concentration RSD	1.5 %	2.3 %	2.2 %	2.0 %	5.8 %	1.3 %	1.6 %	5.6 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	57.222 ppb	103.870 %	104.127 %	57.404 ppb	57.847 ppb	100.430 %
Concentration per Run 1	56.948 ppb	95.980 %	95.330 %	57.106 ppb	56.455 ppb	92.229 %
Concentration per Run 2	57.347 ppb	106.986 %	106.881 %	57.347 ppb	58.417 ppb	102.428 %
Concentration per Run 3	57.370 ppb	108.642 %	110.169 %	57.759 ppb	58.670 ppb	106.635 %
Recovery Percentage 1	95.370 %			95.674 %	96.412 %	
Concentration RSD	0.4 %	6.6 %	7.5 %	0.6 %	2.1 %	7.4 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 32 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: CCB Rack: 0
 Analysis started at: 8/1/2023 1:55:09 PM Vial: 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.154 %	102.896 %	-0.009 ppb	3.008 ppb	-0.276 ppb	-0.080 ppb	-3.354 ppb	-7.596 ppb	107.602 %
Concentration per Run 1	110.211 %	109.370 %	-0.015 ppb	1.767 ppb	-0.401 ppb	0.189 ppb	-6.266 ppb	-7.857 ppb	110.425 %
Concentration per Run 2	105.259 %	97.104 %	-0.012 ppb	4.342 ppb	-0.292 ppb	-0.292 ppb	-0.525 ppb	-7.710 ppb	106.662 %
Concentration per Run 3	105.994 %	102.215 %	0.001 ppb	2.915 ppb	-0.135 ppb	-0.138 ppb	-3.270 ppb	-7.223 ppb	105.720 %
Recovery Percentage 1			-1.742 %	3.008 %	-0.394 %	-0.802 %	-3.354 %	-7.596 %	
Concentration RSD	2.5 %	6.0 %	97.3 %	42.9 %	48.5 %	305.9 %	85.6 %	4.4 %	2.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.006 ppb	-0.005 ppb	-0.072 ppb	4.408 ppb	-0.015 ppb	-0.033 ppb	0.031 ppb	-0.908 ppb	92.848 %
Concentration per Run 1	-0.002 ppb	0.000 ppb	-0.078 ppb	3.992 ppb	-0.025 ppb	-0.023 ppb	0.027 ppb	-0.931 ppb	94.353 %
Concentration per Run 2	-0.012 ppb	-0.009 ppb	-0.084 ppb	5.091 ppb	-0.012 ppb	-0.008 ppb	0.030 ppb	-0.910 ppb	94.023 %
Concentration per Run 3	-0.005 ppb	-0.006 ppb	-0.056 ppb	4.142 ppb	-0.007 ppb	-0.068 ppb	0.036 ppb	-0.884 ppb	90.169 %
Recovery Percentage 1	-0.127 %	-0.491 %	-7.240 %	8.817 %	-2.922 %	-1.662 %	3.110 %	-18.166 %	
Concentration RSD	82.0 %	85.8 %	20.4 %	13.5 %	61.9 %	94.0 %	16.0 %	2.6 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.003 ppb	0.037 ppb	-0.003 ppb	0.130 ppb	95.815 %	0.008 ppb	0.001 ppb	93.619 %	0.019 ppb
Concentration per Run 1	0.002 ppb	0.056 ppb	-0.002 ppb	0.127 ppb	92.440 %	0.009 ppb	0.002 ppb	91.632 %	0.016 ppb
Concentration per Run 2	0.004 ppb	0.023 ppb	-0.004 ppb	0.149 ppb	97.002 %	0.006 ppb	0.000 ppb	94.285 %	0.019 ppb
Concentration per Run 3	0.001 ppb	0.031 ppb	-0.004 ppb	0.113 ppb	98.003 %	0.008 ppb	0.000 ppb	94.939 %	0.021 ppb
Recovery Percentage 1	0.551 %	0.735 %	-0.031 %	6.489 %		1.950 %	0.306 %		0.471 %
Concentration RSD	52.4 %	46.6 %	32.9 %	13.8 %	3.1 %	21.2 %	212.8 %	1.9 %	13.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.018 ppb	97.375 %	96.478 %	0.187 ppb	0.000 ppb	97.513 %
Concentration per Run 1	-0.027 ppb	93.685 %	91.941 %	0.197 ppb	0.002 ppb	92.342 %
Concentration per Run 2	-0.011 ppb	99.170 %	97.845 %	0.207 ppb	-0.002 ppb	98.343 %
Concentration per Run 3	-0.016 ppb	99.270 %	99.647 %	0.156 ppb	-0.001 ppb	101.854 %
Recovery Percentage 1	-3.567 %			18.662 %	-0.017 %	
Concentration RSD	44.6 %	3.3 %	4.2 %	14.6 %	1,304.3 %	4.9 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 33 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: WG1809786-1 6020TL Rack 1
 Analysis started at: 8/1/2023 2:17:40 PM Vial 26

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	123.373 %	111.073 %	-0.014 ppb	-0.389 ppb	0.785 ppb	1.114 ppb	-6.962 ppb	-1.611 ppb	120.558 %
Concentration per Run 1	124.571 %	104.259 %	-0.011 ppb	0.025 ppb	0.462 ppb	0.882 ppb	-6.487 ppb	-0.183 ppb	120.679 %
Concentration per Run 2	125.055 %	116.525 %	-0.013 ppb	-1.229 ppb	0.861 ppb	1.230 ppb	-7.905 ppb	-2.119 ppb	124.424 %
Concentration per Run 3	120.492 %	112.436 %	-0.018 ppb	0.038 ppb	1.031 ppb	1.231 ppb	-6.494 ppb	-2.533 ppb	116.571 %
Concentration RSD	2.0 %	5.6 %	24.2 %	187.2 %	37.2 %	18.1 %	11.7 %	77.8 %	3.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.009 ppb	-0.014 ppb	-0.060 ppb	-0.986 ppb	-0.025 ppb	-0.067 ppb	-0.023 ppb	-1.043 ppb	114.378 %
Concentration per Run 1	-0.004 ppb	-0.007 ppb	-0.052 ppb	-0.889 ppb	-0.022 ppb	-0.068 ppb	-0.016 ppb	-1.034 ppb	109.107 %
Concentration per Run 2	-0.021 ppb	-0.024 ppb	-0.032 ppb	-1.091 ppb	-0.022 ppb	-0.080 ppb	-0.021 ppb	-1.060 ppb	114.908 %
Concentration per Run 3	-0.003 ppb	-0.012 ppb	-0.096 ppb	-0.976 ppb	-0.031 ppb	-0.055 ppb	-0.033 ppb	-1.033 ppb	119.119 %
Concentration RSD	109.4 %	59.9 %	53.9 %	10.3 %	20.7 %	18.6 %	36.8 %	1.5 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.009 ppb	-0.003 ppb	0.000 ppb	-0.004 ppb	115.504 %	-0.001 ppb	0.000 ppb	116.293 %	0.002 ppb
Concentration per Run 1	-0.015 ppb	-0.003 ppb	0.002 ppb	-0.006 ppb	109.777 %	-0.001 ppb	0.000 ppb	108.066 %	0.005 ppb
Concentration per Run 2	-0.009 ppb	-0.001 ppb	0.000 ppb	-0.004 ppb	118.509 %	-0.001 ppb	0.000 ppb	118.375 %	0.002 ppb
Concentration per Run 3	-0.002 ppb	-0.003 ppb	-0.002 ppb	-0.001 ppb	118.227 %	-0.001 ppb	-0.001 ppb	122.439 %	0.000 ppb
Concentration RSD	73.4 %	45.6 %	3,349.0 %	61.6 %	4.3 %	18.0 %	188.2 %	6.4 %	110.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.034 ppb	117.758 %	120.331 %	-0.009 ppb	-0.002 ppb	123.496 %
Concentration per Run 1	-0.033 ppb	110.489 %	110.946 %	-0.008 ppb	-0.001 ppb	115.630 %
Concentration per Run 2	-0.035 ppb	118.936 %	122.214 %	-0.010 ppb	-0.002 ppb	125.140 %
Concentration per Run 3	-0.035 ppb	123.848 %	127.832 %	-0.010 ppb	-0.003 ppb	129.718 %
Concentration RSD	3.2 %	5.7 %	7.1 %	10.5 %	39.8 %	5.8 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 34 User name ALPHALAB\la2-icpmsq2 Comment fb
 Analysis label: L2343822-04 6020TL Rack 1
 Analysis started at: 8/1/2023 2:22:07 PM Vial 33

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	118.070 %	107.155 %	-0.015 ppb	181.654 ppb	6.078 ppb	2.285 ppb	-3.109 ppb	36.114 ppb	120.207 %
Concentration per Run 1	121.020 %	101.192 %	-0.013 ppb	182.482 ppb	6.194 ppb	2.094 ppb	-3.297 ppb	33.364 ppb	123.570 %
Concentration per Run 2	116.877 %	110.903 %	-0.017 ppb	181.815 ppb	6.123 ppb	2.109 ppb	-6.774 ppb	32.778 ppb	117.036 %
Concentration per Run 3	116.313 %	109.370 %	-0.015 ppb	180.667 ppb	5.916 ppb	2.652 ppb	0.745 ppb	42.202 ppb	120.014 %
Concentration RSD	2.2 %	4.9 %	13.1 %	0.5 %	2.4 %	13.9 %	121.1 %	14.6 %	2.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.013 ppb	0.332 ppb	0.014 ppb	-0.124 ppb	-0.016 ppb	0.009 ppb	0.145 ppb	-1.099 ppb	110.952 %
Concentration per Run 1	-0.003 ppb	0.345 ppb	-0.003 ppb	-0.442 ppb	-0.016 ppb	-0.015 ppb	0.155 ppb	-1.110 ppb	108.191 %
Concentration per Run 2	0.038 ppb	0.332 ppb	0.019 ppb	0.158 ppb	-0.009 ppb	0.003 ppb	0.159 ppb	-1.088 ppb	113.127 %
Concentration per Run 3	0.003 ppb	0.318 ppb	0.026 ppb	-0.089 ppb	-0.023 ppb	0.039 ppb	0.120 ppb	-1.099 ppb	111.538 %
Concentration RSD	173.8 %	4.0 %	106.0 %	242.5 %	45.7 %	308.3 %	15.0 %	1.0 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.003 ppb	0.003 ppb	0.491 ppb	0.004 ppb	114.196 %	0.002 ppb	0.000 ppb	112.886 %	0.010 ppb
Concentration per Run 1	-0.005 ppb	-0.009 ppb	0.481 ppb	0.004 ppb	111.827 %	0.005 ppb	0.000 ppb	108.359 %	0.011 ppb
Concentration per Run 2	-0.003 ppb	0.019 ppb	0.496 ppb	0.009 ppb	112.839 %	0.001 ppb	0.001 ppb	115.157 %	0.008 ppb
Concentration per Run 3	-0.003 ppb	-0.001 ppb	0.494 ppb	0.000 ppb	117.921 %	0.001 ppb	0.000 ppb	115.143 %	0.011 ppb
Concentration RSD	42.5 %	459.3 %	1.7 %	101.6 %	2.9 %	77.7 %	197.1 %	3.5 %	16.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.328 ppb	115.954 %	117.655 %	-0.015 ppb	0.003 ppb	116.653 %
Concentration per Run 1	0.344 ppb	110.129 %	110.362 %	-0.019 ppb	0.003 ppb	108.887 %
Concentration per Run 2	0.322 ppb	116.863 %	119.269 %	-0.014 ppb	0.001 ppb	119.031 %
Concentration per Run 3	0.318 ppb	120.870 %	123.334 %	-0.013 ppb	0.005 ppb	122.042 %
Concentration RSD	4.3 %	4.7 %	5.6 %	20.0 %	54.4 %	5.9 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 35 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809786-2D5 6020TL Rack: 1
 Analysis started at: 8/1/2023 2:26:37 PM Vial: 27

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	110.857 %	103.237 %	10.458 ppb	2,037.186 ppb	2,121.592 ppb	446.365 ppb	2,108.305 ppb	1,939.553 ppb	114.036 %
Concentration per Run 1	114.050 %	99.148 %	10.327 ppb	2,092.428 ppb	2,180.903 ppb	454.712 ppb	2,173.539 ppb	2,043.164 ppb	116.045 %
Concentration per Run 2	109.446 %	113.969 %	10.806 ppb	1,875.076 ppb	1,957.162 ppb	412.724 ppb	1,910.831 ppb	1,782.222 ppb	111.533 %
Concentration per Run 3	109.076 %	96.593 %	10.242 ppb	2,144.054 ppb	2,226.713 ppb	471.660 ppb	2,240.546 ppb	1,993.274 ppb	114.529 %
Concentration RSD	2.5 %	9.1 %	2.9 %	7.0 %	6.8 %	6.8 %	8.3 %	7.1 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	101.451 ppb	40.809 ppb	103.640 ppb	207.807 ppb	103.719 ppb	103.683 ppb	52.792 ppb	103.480 ppb	108.530 %
Concentration per Run 1	103.820 ppb	40.993 ppb	104.472 ppb	215.636 ppb	104.326 ppb	104.782 ppb	53.500 ppb	105.619 ppb	106.396 %
Concentration per Run 2	96.476 ppb	40.067 ppb	103.068 ppb	194.888 ppb	102.745 ppb	102.447 ppb	52.046 ppb	100.933 ppb	108.544 %
Concentration per Run 3	104.059 ppb	41.368 ppb	103.380 ppb	212.896 ppb	104.085 ppb	103.821 ppb	52.828 ppb	103.889 ppb	110.649 %
Concentration RSD	4.2 %	1.6 %	0.7 %	5.4 %	0.8 %	1.1 %	1.4 %	2.3 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	24.708 ppb	24.149 ppb	200.207 ppb	198.469 ppb	105.376 %	9.991 ppb	11.282 ppb	103.660 %	96.782 ppb
Concentration per Run 1	25.000 ppb	24.146 ppb	203.129 ppb	197.384 ppb	105.455 %	9.985 ppb	11.241 ppb	103.286 %	94.254 ppb
Concentration per Run 2	24.340 ppb	23.665 ppb	200.135 ppb	200.122 ppb	102.075 %	10.021 ppb	11.278 ppb	102.622 %	98.385 ppb
Concentration per Run 3	24.784 ppb	24.635 ppb	197.355 ppb	197.900 ppb	108.599 %	9.968 ppb	11.326 ppb	105.073 %	97.708 ppb
Concentration RSD	1.4 %	2.0 %	1.4 %	0.7 %	3.1 %	0.3 %	0.4 %	1.2 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	411.620 ppb	107.859 %	108.034 %	23.118 ppb	111.835 ppb	104.150 %
Concentration per Run 1	409.362 ppb	106.534 %	106.661 %	23.290 ppb	111.709 ppb	100.700 %
Concentration per Run 2	409.516 ppb	106.275 %	105.485 %	22.654 ppb	111.600 ppb	104.183 %
Concentration per Run 3	415.983 ppb	110.769 %	111.955 %	23.410 ppb	112.197 ppb	107.569 %
Concentration RSD	0.9 %	2.3 %	3.2 %	1.8 %	0.3 %	3.3 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 36 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809786-3D10 6020TL Rack: 1
 Analysis started at: 8/1/2023 2:31:04 PM Vial: 29

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.831 %	99.830 %	5.231 ppb	1,556.556 ppb	3,664.147 ppb	241.504 ppb	1,686.295 ppb	11,614.863 ppb	112.642 %
Concentration per Run 1	111.454 %	93.526 %	5.342 ppb	1,538.946 ppb	3,669.341 ppb	241.517 ppb	1,616.947 ppb	10,954.853 ppb	116.777 %
Concentration per Run 2	111.778 %	106.303 %	5.082 ppb	1,475.807 ppb	3,419.960 ppb	226.661 ppb	1,677.993 ppb	11,437.746 ppb	113.191 %
Concentration per Run 3	106.261 %	99.659 %	5.269 ppb	1,654.916 ppb	3,903.141 ppb	256.334 ppb	1,763.945 ppb	12,451.991 ppb	107.957 %
Concentration RSD	2.8 %	6.4 %	2.6 %	5.8 %	6.6 %	6.1 %	4.4 %	6.6 %	3.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	50.718 ppb	20.516 ppb	61.257 ppb	174.889 ppb	51.695 ppb	51.386 ppb	37.356 ppb	64.590 ppb	100.453 %
Concentration per Run 1	47.360 ppb	19.532 ppb	57.980 ppb	156.890 ppb	50.046 ppb	49.564 ppb	35.325 ppb	61.416 ppb	97.619 %
Concentration per Run 2	50.936 ppb	20.279 ppb	60.524 ppb	180.112 ppb	49.527 ppb	49.309 ppb	36.368 ppb	62.665 ppb	101.986 %
Concentration per Run 3	53.857 ppb	21.737 ppb	65.268 ppb	187.665 ppb	55.512 ppb	55.286 ppb	40.376 ppb	69.689 ppb	101.755 %
Concentration RSD	6.4 %	5.5 %	6.0 %	9.2 %	6.4 %	6.6 %	7.1 %	6.9 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.876 ppb	12.781 ppb	125.357 ppb	100.615 ppb	97.344 %	4.886 ppb	5.626 ppb	97.290 %	48.956 ppb
Concentration per Run 1	12.081 ppb	12.422 ppb	121.519 ppb	99.278 ppb	88.231 %	4.905 ppb	5.622 ppb	86.855 %	49.271 ppb
Concentration per Run 2	13.089 ppb	12.930 ppb	125.211 ppb	100.419 ppb	98.057 %	4.910 ppb	5.605 ppb	99.976 %	47.909 ppb
Concentration per Run 3	13.459 ppb	12.992 ppb	129.341 ppb	102.148 ppb	105.744 %	4.843 ppb	5.651 ppb	105.040 %	49.689 ppb
Concentration RSD	5.5 %	2.4 %	3.1 %	1.4 %	9.0 %	0.8 %	0.4 %	9.6 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	214.568 ppb	101.733 %	101.768 %	11.324 ppb	55.636 ppb	97.240 %
Concentration per Run 1	216.134 ppb	91.629 %	89.427 %	11.353 ppb	53.970 ppb	85.678 %
Concentration per Run 2	210.743 ppb	101.884 %	103.368 %	11.399 ppb	56.803 ppb	98.236 %
Concentration per Run 3	216.826 ppb	111.687 %	112.509 %	11.220 ppb	56.135 ppb	107.806 %
Concentration RSD	1.6 %	9.9 %	11.4 %	0.8 %	2.7 %	11.4 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 37 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809786-5D10 6020TL Rack: 1
 Analysis started at: 8/1/2023 2:35:32 PM Vial: 31

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.940 %	105.451 %	50.177 ppb	5,217.406 ppb	7,356.578 ppb	72.892 ppb	5,514.235 ppb	15,057.613 ppb	112.128 %
Concentration per Run 1	107.896 %	98.126 %	51.250 ppb	5,530.866 ppb	7,836.232 ppb	77.940 ppb	5,555.160 ppb	15,350.830 ppb	114.810 %
Concentration per Run 2	104.804 %	105.792 %	48.763 ppb	5,105.965 ppb	7,152.023 ppb	72.502 ppb	5,615.634 ppb	14,997.294 ppb	114.220 %
Concentration per Run 3	102.119 %	112.436 %	50.518 ppb	5,015.386 ppb	7,081.477 ppb	68.235 ppb	5,371.911 ppb	14,824.715 ppb	107.354 %
Concentration RSD	2.8 %	6.8 %	2.5 %	5.3 %	5.7 %	6.7 %	2.3 %	1.8 %	3.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.957 ppb	49.280 ppb	59.488 ppb	5,142.967 ppb	48.889 ppb	50.737 ppb	60.813 ppb	62.940 ppb	101.222 %
Concentration per Run 1	52.310 ppb	50.360 ppb	61.288 ppb	5,308.709 ppb	50.262 ppb	52.749 ppb	62.301 ppb	64.311 ppb	97.971 %
Concentration per Run 2	47.810 ppb	47.374 ppb	57.931 ppb	4,979.388 ppb	47.836 ppb	50.338 ppb	59.755 ppb	62.574 ppb	102.565 %
Concentration per Run 3	49.752 ppb	50.105 ppb	59.244 ppb	5,140.803 ppb	48.569 ppb	49.126 ppb	60.383 ppb	61.936 ppb	103.131 %
Concentration RSD	4.5 %	3.4 %	2.8 %	3.2 %	2.5 %	3.6 %	2.2 %	2.0 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	50.646 ppb	50.406 ppb	76.260 ppb	49.866 ppb	98.184 %	2.780 ppb	49.186 ppb	101.749 %	49.214 ppb
Concentration per Run 1	50.414 ppb	50.465 ppb	77.293 ppb	49.899 ppb	94.896 %	2.803 ppb	49.361 ppb	98.072 %	50.035 ppb
Concentration per Run 2	50.385 ppb	49.171 ppb	74.569 ppb	49.170 ppb	100.272 %	2.761 ppb	48.652 ppb	100.950 %	48.702 ppb
Concentration per Run 3	51.140 ppb	51.583 ppb	76.916 ppb	50.531 ppb	99.385 %	2.777 ppb	49.544 ppb	106.224 %	48.905 ppb
Concentration RSD	0.8 %	2.4 %	1.9 %	1.4 %	2.9 %	0.8 %	1.0 %	4.1 %	1.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	62.683 ppb	103.386 %	103.611 %	49.420 ppb	49.920 ppb	97.422 %
Concentration per Run 1	63.514 ppb	98.590 %	97.704 %	48.956 ppb	50.020 ppb	92.267 %
Concentration per Run 2	62.444 ppb	104.030 %	104.015 %	49.493 ppb	49.542 ppb	96.671 %
Concentration per Run 3	62.092 ppb	107.537 %	109.112 %	49.811 ppb	50.198 ppb	103.327 %
Concentration RSD	1.2 %	4.4 %	5.5 %	0.9 %	0.7 %	5.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 38 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809786-4D10 6020TL Rack: 1
 Analysis started at: 8/1/2023 2:40:01 PM Vial: 30

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	108.932 %	105.111 %	5.228 ppb	1,484.824 ppb	3,507.644 ppb	232.961 ppb	1,660.371 ppb	11,228.503 ppb	115.028 %
Concentration per Run 1	111.585 %	106.303 %	5.166 ppb	1,393.382 ppb	3,309.571 ppb	224.858 ppb	1,577.762 ppb	10,635.518 ppb	120.060 %
Concentration per Run 2	108.256 %	103.748 %	5.246 ppb	1,550.481 ppb	3,600.878 ppb	234.591 ppb	1,697.383 ppb	11,397.940 ppb	112.504 %
Concentration per Run 3	106.954 %	105.281 %	5.274 ppb	1,510.608 ppb	3,612.484 ppb	239.435 ppb	1,705.970 ppb	11,652.050 ppb	112.522 %
Concentration RSD	2.2 %	1.2 %	1.1 %	5.5 %	4.9 %	3.2 %	4.3 %	4.7 %	3.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.714 ppb	20.169 ppb	58.491 ppb	171.254 ppb	49.898 ppb	49.626 ppb	36.239 ppb	63.990 ppb	103.620 %
Concentration per Run 1	45.603 ppb	19.134 ppb	55.305 ppb	166.722 ppb	48.103 ppb	48.608 ppb	35.553 ppb	63.223 ppb	97.518 %
Concentration per Run 2	51.708 ppb	21.304 ppb	62.119 ppb	179.827 ppb	52.079 ppb	50.837 ppb	37.324 ppb	65.166 ppb	102.659 %
Concentration per Run 3	48.830 ppb	20.070 ppb	58.049 ppb	167.215 ppb	49.513 ppb	49.433 ppb	35.841 ppb	63.580 ppb	110.683 %
Concentration RSD	6.3 %	5.4 %	5.9 %	4.3 %	4.0 %	2.3 %	2.6 %	1.6 %	6.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.916 ppb	12.656 ppb	123.626 ppb	96.600 ppb	101.781 %	4.811 ppb	5.481 ppb	102.068 %	46.900 ppb
Concentration per Run 1	12.940 ppb	12.118 ppb	122.945 ppb	95.370 ppb	97.044 %	4.778 ppb	5.484 ppb	96.532 %	46.121 ppb
Concentration per Run 2	13.061 ppb	13.175 ppb	125.998 ppb	96.311 ppb	101.079 %	4.807 ppb	5.502 ppb	104.209 %	47.027 ppb
Concentration per Run 3	12.746 ppb	12.676 ppb	121.935 ppb	98.118 ppb	107.221 %	4.847 ppb	5.457 ppb	105.463 %	47.551 ppb
Concentration RSD	1.2 %	4.2 %	1.7 %	1.4 %	5.0 %	0.7 %	0.4 %	4.7 %	1.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	213.124 ppb	105.873 %	106.327 %	11.413 ppb	55.292 ppb	101.056 %
Concentration per Run 1	212.193 ppb	98.886 %	98.869 %	11.433 ppb	53.571 ppb	93.086 %
Concentration per Run 2	212.766 ppb	106.023 %	107.365 %	11.446 ppb	56.534 ppb	102.992 %
Concentration per Run 3	214.412 ppb	112.710 %	112.747 %	11.360 ppb	55.772 ppb	107.089 %
Concentration RSD	0.5 %	6.5 %	6.6 %	0.4 %	2.8 %	7.1 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 39 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809786-6D5 6020TL Rack: 1
 Analysis started at: 8/1/2023 2:44:29 PM Vial: 32

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	110.441 %	111.584 %	-0.003 ppb	1,069.645 ppb	5,092.967 ppb	48.278 ppb	1,308.484 ppb	21,417.632 ppb	116.738 %
Concentration per Run 1	114.016 %	111.414 %	0.002 ppb	1,002.198 ppb	4,716.523 ppb	44.402 ppb	1,214.758 ppb	20,230.918 ppb	120.913 %
Concentration per Run 2	108.122 %	109.881 %	-0.002 ppb	1,127.930 ppb	5,417.724 ppb	53.644 ppb	1,384.026 ppb	22,214.361 ppb	115.800 %
Concentration per Run 3	109.185 %	113.458 %	-0.009 ppb	1,078.806 ppb	5,144.654 ppb	46.789 ppb	1,326.668 ppb	21,807.616 ppb	113.500 %
Concentration RSD	2.8 %	1.6 %	176.0 %	5.9 %	6.9 %	9.9 %	6.6 %	4.9 %	3.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.371 ppb	0.202 ppb	16.100 ppb	136.037 ppb	0.045 ppb	0.744 ppb	21.427 ppb	26.110 ppb	108.838 %
Concentration per Run 1	0.379 ppb	0.182 ppb	15.328 ppb	130.315 ppb	0.036 ppb	0.711 ppb	21.073 ppb	25.378 ppb	104.046 %
Concentration per Run 2	0.403 ppb	0.198 ppb	16.874 ppb	139.855 ppb	0.060 ppb	0.723 ppb	21.082 ppb	26.200 ppb	115.663 %
Concentration per Run 3	0.332 ppb	0.227 ppb	16.098 ppb	137.940 ppb	0.039 ppb	0.797 ppb	22.126 ppb	26.751 ppb	106.806 %
Concentration RSD	9.8 %	11.5 %	4.8 %	3.7 %	30.0 %	6.3 %	2.8 %	2.6 %	5.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.290 ppb	1.090 ppb	51.972 ppb	0.481 ppb	104.696 %	0.003 ppb	0.036 ppb	109.455 %	0.259 ppb
Concentration per Run 1	0.304 ppb	1.011 ppb	50.558 ppb	0.487 ppb	99.280 %	0.003 ppb	0.033 ppb	103.362 %	0.270 ppb
Concentration per Run 2	0.251 ppb	1.060 ppb	53.509 ppb	0.498 ppb	107.128 %	0.003 ppb	0.031 ppb	113.749 %	0.275 ppb
Concentration per Run 3	0.316 ppb	1.199 ppb	51.847 ppb	0.458 ppb	107.680 %	0.003 ppb	0.044 ppb	111.256 %	0.233 ppb
Concentration RSD	11.9 %	9.0 %	2.8 %	4.3 %	4.5 %	9.5 %	19.2 %	5.0 %	8.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	29.414 ppb	110.118 %	111.261 %	0.038 ppb	3.035 ppb	103.901 %
Concentration per Run 1	29.022 ppb	101.692 %	102.077 %	0.028 ppb	3.046 ppb	95.896 %
Concentration per Run 2	30.133 ppb	116.093 %	116.766 %	0.045 ppb	3.028 ppb	106.337 %
Concentration per Run 3	29.086 ppb	112.568 %	114.940 %	0.042 ppb	3.031 ppb	109.470 %
Concentration RSD	2.1 %	6.8 %	7.2 %	23.9 %	0.3 %	6.8 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 40 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343170-01 6020TL Rack 1
 Analysis started at: 8/1/2023 2:48:58 PM Vial 28

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.593 %	108.007 %	0.009 ppb	5,878.140 ppb	25,922.092 ppb	251.410 ppb	7,323.886 ppb	115,314.134 ppb	129.756 %
Concentration per Run 1	109.763 %	100.681 %	0.001 ppb	5,645.279 ppb	25,736.100 ppb	247.910 ppb	7,169.436 ppb	113,025.408 ppb	134.858 %
Concentration per Run 2	106.116 %	115.503 %	0.015 ppb	6,051.549 ppb	25,813.386 ppb	244.963 ppb	7,046.303 ppb	114,635.790 ppb	128.813 %
Concentration per Run 3	103.901 %	107.836 %	0.011 ppb	5,937.591 ppb	26,216.788 ppb	261.356 ppb	7,755.920 ppb	118,281.204 ppb	125.595 %
Concentration RSD	2.8 %	6.9 %	77.2 %	3.6 %	1.0 %	3.5 %	5.2 %	2.3 %	3.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.877 ppb	1.055 ppb	81.689 ppb	680.616 ppb	0.314 ppb	3.579 ppb	102.186 ppb	125.021 ppb	108.431 %
Concentration per Run 1	1.865 ppb	1.017 ppb	81.124 ppb	673.282 ppb	0.311 ppb	3.486 ppb	104.289 ppb	125.409 ppb	101.474 %
Concentration per Run 2	1.843 ppb	1.088 ppb	82.644 ppb	701.125 ppb	0.316 ppb	3.672 ppb	102.700 ppb	125.110 ppb	106.470 %
Concentration per Run 3	1.924 ppb	1.061 ppb	81.300 ppb	667.442 ppb	0.316 ppb	3.580 ppb	99.568 ppb	124.542 ppb	117.349 %
Concentration RSD	2.2 %	3.4 %	1.0 %	2.6 %	1.0 %	2.6 %	2.4 %	0.4 %	7.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.512 ppb	5.376 ppb	273.249 ppb	1.302 ppb	98.673 %	0.008 ppb	0.154 ppb	107.520 %	0.218 ppb
Concentration per Run 1	1.476 ppb	4.887 ppb	265.763 ppb	1.340 ppb	93.376 %	0.008 ppb	0.147 ppb	98.006 %	0.201 ppb
Concentration per Run 2	1.572 ppb	5.776 ppb	281.300 ppb	1.239 ppb	99.692 %	0.008 ppb	0.149 ppb	110.704 %	0.228 ppb
Concentration per Run 3	1.489 ppb	5.464 ppb	272.684 ppb	1.326 ppb	102.951 %	0.008 ppb	0.166 ppb	113.850 %	0.225 ppb
Concentration RSD	3.4 %	8.4 %	2.8 %	4.2 %	4.9 %	3.0 %	7.0 %	7.8 %	6.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	152.922 ppb	109.225 %	109.879 %	0.034 ppb	15.770 ppb	94.361 %
Concentration per Run 1	152.031 ppb	99.314 %	99.298 %	0.027 ppb	15.811 ppb	85.358 %
Concentration per Run 2	153.411 ppb	111.727 %	112.281 %	0.038 ppb	15.674 ppb	97.823 %
Concentration per Run 3	153.324 ppb	116.634 %	118.057 %	0.036 ppb	15.825 ppb	99.901 %
Concentration RSD	0.5 %	8.2 %	8.7 %	17.7 %	0.5 %	8.3 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 41 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/1/2023 2:55:03 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	110.843 %	110.562 %	57.869 ppb	5,598.567 ppb	5,823.937 ppb	59.726 ppb	5,814.695 ppb	5,819.380 ppb	117.221 %
Concentration per Run 1	113.674 %	122.147 %	56.751 ppb	5,011.027 ppb	5,266.971 ppb	54.033 ppb	5,382.818 ppb	5,367.671 ppb	121.413 %
Concentration per Run 2	110.443 %	96.082 %	59.779 ppb	6,406.591 ppb	6,587.009 ppb	67.562 ppb	6,336.423 ppb	6,475.060 ppb	115.011 %
Concentration per Run 3	108.413 %	113.458 %	57.076 ppb	5,378.084 ppb	5,617.830 ppb	57.584 ppb	5,724.843 ppb	5,615.409 ppb	115.238 %
Recovery Percentage 1			96.448 %	93.309 %	97.066 %	99.543 %	96.912 %	96.990 %	
Concentration RSD	2.4 %	12.0 %	2.9 %	12.9 %	11.7 %	11.7 %	8.3 %	10.0 %	3.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.225 ppb	57.571 ppb	59.077 ppb	5,899.908 ppb	59.258 ppb	59.241 ppb	60.383 ppb	60.823 ppb	105.914 %
Concentration per Run 1	52.062 ppb	52.901 ppb	54.346 ppb	5,510.237 ppb	55.847 ppb	55.201 ppb	57.924 ppb	57.781 ppb	104.614 %
Concentration per Run 2	64.055 ppb	64.892 ppb	66.373 ppb	6,557.899 ppb	66.195 ppb	65.846 ppb	65.861 ppb	66.633 ppb	98.733 %
Concentration per Run 3	55.559 ppb	54.919 ppb	56.512 ppb	5,631.588 ppb	55.732 ppb	56.677 ppb	57.364 ppb	58.055 ppb	114.395 %
Recovery Percentage 1	95.375 %	95.951 %	98.462 %	98.332 %	98.763 %	98.736 %	100.639 %	101.372 %	
Concentration RSD	10.8 %	11.2 %	10.9 %	9.7 %	10.1 %	9.7 %	7.9 %	8.3 %	7.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.904 ppb	59.783 ppb	58.660 ppb	57.193 ppb	104.680 %	57.423 ppb	58.499 ppb	105.140 %	57.518 ppb
Concentration per Run 1	58.364 ppb	57.838 ppb	57.898 ppb	57.933 ppb	100.997 %	57.749 ppb	58.903 ppb	99.692 %	57.479 ppb
Concentration per Run 2	64.446 ppb	64.284 ppb	61.377 ppb	57.348 ppb	104.160 %	57.920 ppb	58.331 ppb	106.188 %	58.055 ppb
Concentration per Run 3	56.902 ppb	57.226 ppb	56.705 ppb	56.298 ppb	108.884 %	56.598 ppb	58.261 ppb	109.539 %	57.021 ppb
Recovery Percentage 1	99.840 %	99.638 %	97.767 %	95.322 %		95.704 %	97.498 %		95.864 %
Concentration RSD	6.7 %	6.5 %	4.1 %	1.4 %	3.8 %	1.3 %	0.6 %	4.8 %	0.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	57.775 ppb	107.583 %	107.589 %	57.579 ppb	57.841 ppb	102.341 %
Concentration per Run 1	58.005 ppb	102.198 %	100.771 %	56.705 ppb	56.412 ppb	95.288 %
Concentration per Run 2	57.661 ppb	108.721 %	109.140 %	57.988 ppb	58.577 ppb	103.635 %
Concentration per Run 3	57.659 ppb	111.831 %	112.856 %	58.043 ppb	58.533 ppb	108.099 %
Recovery Percentage 1	96.292 %			95.964 %	96.401 %	
Concentration RSD	0.3 %	4.6 %	5.8 %	1.3 %	2.1 %	6.4 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 42 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/1/2023 2:59:35 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.820 %	100.681 %	-0.004 ppb	-2.635 ppb	-0.204 ppb	-0.017 ppb	-4.989 ppb	-4.551 ppb	102.902 %
Concentration per Run 1	105.866 %	96.593 %	-0.002 ppb	-2.324 ppb	-0.383 ppb	0.215 ppb	-6.640 ppb	-6.374 ppb	103.258 %
Concentration per Run 2	106.176 %	104.259 %	-0.004 ppb	-2.763 ppb	-0.237 ppb	-0.057 ppb	-3.788 ppb	-3.347 ppb	100.964 %
Concentration per Run 3	105.418 %	101.193 %	-0.007 ppb	-2.818 ppb	0.007 ppb	-0.210 ppb	-4.539 ppb	-3.932 ppb	104.483 %
Recovery Percentage 1			-0.866 %	-2.635 %	-0.291 %	-0.174 %	-4.989 %	-4.551 %	
Concentration RSD	0.4 %	3.8 %	62.8 %	10.3 %	96.6 %	1,234.7 %	29.6 %	35.3 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	-0.010 ppb	-0.069 ppb	4.345 ppb	-0.018 ppb	-0.053 ppb	0.021 ppb	-0.853 ppb	103.608 %
Concentration per Run 1	0.010 ppb	-0.010 ppb	-0.079 ppb	4.327 ppb	-0.006 ppb	-0.074 ppb	0.014 ppb	-0.865 ppb	101.424 %
Concentration per Run 2	0.005 ppb	-0.010 ppb	-0.039 ppb	4.948 ppb	-0.023 ppb	-0.027 ppb	0.037 ppb	-0.843 ppb	101.679 %
Concentration per Run 3	-0.014 ppb	-0.011 ppb	-0.090 ppb	3.762 ppb	-0.024 ppb	-0.060 ppb	0.012 ppb	-0.852 ppb	107.721 %
Recovery Percentage 1	0.008 %	-1.032 %	-6.926 %	8.691 %	-3.529 %	-2.673 %	2.124 %	-17.061 %	
Concentration RSD	3,175.6 %	8.1 %	39.0 %	13.7 %	56.4 %	45.4 %	65.4 %	1.3 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.005 ppb	0.051 ppb	-0.004 ppb	0.143 ppb	105.143 %	0.008 ppb	0.002 ppb	104.152 %	0.036 ppb
Concentration per Run 1	0.006 ppb	0.065 ppb	-0.005 ppb	0.136 ppb	101.151 %	0.009 ppb	0.001 ppb	98.679 %	0.030 ppb
Concentration per Run 2	0.004 ppb	0.039 ppb	-0.003 ppb	0.178 ppb	105.125 %	0.008 ppb	0.002 ppb	106.250 %	0.045 ppb
Concentration per Run 3	0.005 ppb	0.049 ppb	-0.003 ppb	0.114 ppb	109.154 %	0.006 ppb	0.004 ppb	107.528 %	0.033 ppb
Recovery Percentage 1	0.983 %	1.012 %	-0.037 %	7.139 %		1.913 %	1.036 %		0.895 %
Concentration RSD	19.5 %	25.9 %	39.7 %	23.0 %	3.8 %	16.4 %	67.2 %	4.6 %	21.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.018 ppb	107.329 %	108.413 %	0.183 ppb	0.002 ppb	107.014 %
Concentration per Run 1	-0.022 ppb	102.419 %	101.477 %	0.189 ppb	0.001 ppb	98.941 %
Concentration per Run 2	-0.026 ppb	107.172 %	109.225 %	0.204 ppb	0.002 ppb	109.497 %
Concentration per Run 3	-0.006 ppb	112.395 %	114.536 %	0.158 ppb	0.002 ppb	112.604 %
Recovery Percentage 1	-3.571 %			18.345 %	0.194 %	
Concentration RSD	59.6 %	4.6 %	6.1 %	12.8 %	43.3 %	6.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 43 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809732-1 6020TL Rack: 1
 Analysis started at: 8/1/2023 3:10:05 PM Vial: 34

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	116.105 %	113.799 %	-0.013 ppb	0.297 ppb	1.482 ppb	1.794 ppb	-4.227 ppb	9.267 ppb	113.296 %
Concentration per Run 1	117.741 %	105.792 %	-0.012 ppb	0.896 ppb	1.753 ppb	1.543 ppb	-3.319 ppb	12.309 ppb	115.487 %
Concentration per Run 2	118.607 %	107.836 %	-0.017 ppb	0.577 ppb	1.514 ppb	1.860 ppb	-4.010 ppb	9.166 ppb	117.764 %
Concentration per Run 3	111.967 %	127.768 %	-0.011 ppb	-0.581 ppb	1.180 ppb	1.979 ppb	-5.351 ppb	6.327 ppb	106.638 %
Concentration RSD	3.1 %	10.7 %	24.7 %	261.2 %	19.4 %	12.6 %	24.4 %	32.3 %	5.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.010 ppb	0.022 ppb	0.303 ppb	21.421 ppb	-0.020 ppb	0.693 ppb	0.124 ppb	-0.189 ppb	109.981 %
Concentration per Run 1	-0.014 ppb	0.026 ppb	0.307 ppb	21.694 ppb	-0.022 ppb	0.655 ppb	0.103 ppb	-0.204 ppb	111.945 %
Concentration per Run 2	-0.013 ppb	0.030 ppb	0.270 ppb	21.340 ppb	-0.020 ppb	0.695 ppb	0.146 ppb	-0.187 ppb	107.784 %
Concentration per Run 3	-0.003 ppb	0.011 ppb	0.332 ppb	21.229 ppb	-0.018 ppb	0.731 ppb	0.123 ppb	-0.176 ppb	110.214 %
Concentration RSD	60.9 %	45.5 %	10.3 %	1.1 %	9.6 %	5.5 %	17.4 %	7.6 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.005 ppb	0.022 ppb	0.013 ppb	0.010 ppb	108.292 %	0.000 ppb	0.000 ppb	107.896 %	0.016 ppb
Concentration per Run 1	-0.006 ppb	0.009 ppb	0.015 ppb	0.006 ppb	107.125 %	0.000 ppb	0.000 ppb	109.001 %	0.014 ppb
Concentration per Run 2	0.000 ppb	0.029 ppb	0.012 ppb	0.022 ppb	111.521 %	0.000 ppb	0.001 ppb	110.593 %	0.018 ppb
Concentration per Run 3	-0.009 ppb	0.028 ppb	0.012 ppb	0.001 ppb	106.229 %	0.000 ppb	0.000 ppb	104.094 %	0.016 ppb
Concentration RSD	86.5 %	49.8 %	11.7 %	112.6 %	2.6 %	2,154.5 %	57.5 %	3.1 %	14.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.017 ppb	109.954 %	111.757 %	0.008 ppb	0.000 ppb	111.866 %
Concentration per Run 1	0.015 ppb	108.805 %	112.772 %	0.002 ppb	-0.001 ppb	109.245 %
Concentration per Run 2	0.009 ppb	112.384 %	113.169 %	0.012 ppb	0.001 ppb	113.521 %
Concentration per Run 3	0.027 ppb	108.674 %	109.332 %	0.009 ppb	0.001 ppb	112.833 %
Concentration RSD	55.7 %	1.9 %	1.9 %	65.2 %	217.0 %	2.1 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 44 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809732-2D5 6020TL Rack: 1
 Analysis started at: 8/1/2023 3:14:35 PM Vial: 35

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.817 %	95.400 %	10.387 ppb	2,101.740 ppb	2,182.698 ppb	451.970 ppb	2,133.845 ppb	1,841.973 ppb	110.674 %
Concentration per Run 1	112.033 %	95.571 %	10.597 ppb	2,130.349 ppb	2,218.700 ppb	472.446 ppb	2,192.085 ppb	1,728.279 ppb	112.312 %
Concentration per Run 2	109.756 %	99.148 %	10.004 ppb	1,927.372 ppb	2,005.114 ppb	424.999 ppb	2,050.130 ppb	1,834.941 ppb	111.656 %
Concentration per Run 3	107.663 %	91.482 %	10.560 ppb	2,247.498 ppb	2,324.280 ppb	458.465 ppb	2,159.318 ppb	1,962.699 ppb	108.054 %
Concentration RSD	2.0 %	4.0 %	3.2 %	7.7 %	7.4 %	5.4 %	3.5 %	6.4 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	101.155 ppb	41.810 ppb	108.741 ppb	214.199 ppb	104.689 ppb	103.083 ppb	52.446 ppb	102.527 ppb	101.430 %
Concentration per Run 1	103.385 ppb	42.063 ppb	110.412 ppb	215.123 ppb	105.363 ppb	102.790 ppb	52.114 ppb	103.617 ppb	98.564 %
Concentration per Run 2	92.465 ppb	39.765 ppb	102.727 ppb	203.268 ppb	99.374 ppb	99.884 ppb	50.630 ppb	101.046 ppb	101.107 %
Concentration per Run 3	107.615 ppb	43.602 ppb	113.084 ppb	224.207 ppb	109.329 ppb	106.576 ppb	54.593 ppb	102.917 ppb	104.619 %
Concentration RSD	7.7 %	4.6 %	4.9 %	4.9 %	4.8 %	3.3 %	3.8 %	1.3 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	25.005 ppb	24.867 ppb	205.069 ppb	195.630 ppb	98.606 %	9.861 ppb	11.069 ppb	99.553 %	95.536 ppb
Concentration per Run 1	25.186 ppb	26.207 ppb	217.753 ppb	196.881 ppb	92.891 %	9.796 ppb	11.030 ppb	97.213 %	95.448 ppb
Concentration per Run 2	24.479 ppb	23.593 ppb	196.102 ppb	195.443 ppb	100.289 %	9.885 ppb	11.139 ppb	95.723 %	96.564 ppb
Concentration per Run 3	25.350 ppb	24.801 ppb	201.353 ppb	194.564 ppb	102.639 %	9.903 ppb	11.037 ppb	105.722 %	94.596 ppb
Concentration RSD	1.9 %	5.3 %	5.5 %	0.6 %	5.2 %	0.6 %	0.5 %	5.4 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	401.354 ppb	103.766 %	105.307 %	22.580 ppb	109.324 ppb	100.833 %
Concentration per Run 1	409.939 ppb	98.941 %	100.188 %	22.321 ppb	109.870 ppb	94.908 %
Concentration per Run 2	400.472 ppb	102.777 %	104.702 %	22.649 ppb	108.929 ppb	99.846 %
Concentration per Run 3	393.652 ppb	109.579 %	111.032 %	22.770 ppb	109.173 ppb	107.744 %
Concentration RSD	2.0 %	5.2 %	5.2 %	1.0 %	0.4 %	6.4 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 45 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809732-3D10 6020TL Rack: 1
 Analysis started at: 8/1/2023 3:19:05 PM Vial: 37

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	111.225 %	102.896 %	4.979 ppb	6,421.971 ppb	3,554.275 ppb	218.325 ppb	1,357.341 ppb	12,080.021 ppb	113.869 %
Concentration per Run 1	114.668 %	92.504 %	5.023 ppb	6,481.091 ppb	3,640.818 ppb	233.870 ppb	1,437.708 ppb	12,618.580 ppb	118.317 %
Concentration per Run 2	109.573 %	97.104 %	5.055 ppb	7,113.362 ppb	3,821.158 ppb	227.732 ppb	1,418.377 ppb	12,174.629 ppb	112.510 %
Concentration per Run 3	109.433 %	119.080 %	4.858 ppb	5,671.460 ppb	3,200.848 ppb	193.371 ppb	1,215.939 ppb	11,446.855 ppb	110.780 %
Concentration RSD	2.7 %	13.8 %	2.1 %	11.3 %	9.0 %	10.0 %	9.0 %	4.9 %	3.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.419 ppb	19.718 ppb	224.852 ppb	358.206 ppb	49.581 ppb	51.841 ppb	25.472 ppb	57.293 ppb	102.709 %
Concentration per Run 1	50.988 ppb	20.012 ppb	230.428 ppb	365.477 ppb	50.716 ppb	51.597 ppb	26.238 ppb	57.567 ppb	92.957 %
Concentration per Run 2	50.691 ppb	20.507 ppb	235.525 ppb	376.353 ppb	51.401 ppb	54.005 ppb	25.697 ppb	59.506 ppb	104.389 %
Concentration per Run 3	46.578 ppb	18.636 ppb	208.603 ppb	332.789 ppb	46.626 ppb	49.921 ppb	24.481 ppb	54.806 ppb	110.780 %
Concentration RSD	5.0 %	4.9 %	6.4 %	6.3 %	5.2 %	4.0 %	3.5 %	4.1 %	8.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.747 ppb	12.163 ppb	137.241 ppb	98.678 ppb	100.090 %	4.708 ppb	5.267 ppb	103.523 %	47.484 ppb
Concentration per Run 1	12.979 ppb	12.460 ppb	142.024 ppb	98.591 ppb	90.744 %	4.674 ppb	5.291 ppb	96.273 %	47.308 ppb
Concentration per Run 2	12.904 ppb	11.387 ppb	137.447 ppb	99.435 ppb	102.349 %	4.725 ppb	5.250 ppb	104.668 %	48.507 ppb
Concentration per Run 3	12.357 ppb	12.641 ppb	132.252 ppb	98.009 ppb	107.178 %	4.723 ppb	5.258 ppb	109.628 %	46.637 ppb
Concentration RSD	2.7 %	5.6 %	3.6 %	0.7 %	8.4 %	0.6 %	0.4 %	6.5 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	204.248 ppb	105.958 %	106.484 %	11.092 ppb	52.254 ppb	99.909 %
Concentration per Run 1	204.135 ppb	94.640 %	94.651 %	11.085 ppb	51.426 ppb	87.778 %
Concentration per Run 2	206.616 ppb	110.718 %	110.711 %	10.994 ppb	51.419 ppb	103.983 %
Concentration per Run 3	201.993 ppb	112.514 %	114.090 %	11.197 ppb	53.916 ppb	107.966 %
Concentration RSD	1.1 %	9.3 %	9.8 %	0.9 %	2.8 %	10.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 46 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809732-5D10 6020TL Rack: 1
 Analysis started at: 8/1/2023 3:23:33 PM Vial: 39

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.368 %	103.748 %	50.150 ppb	10,567.583 ppb	7,658.018 ppb	56.221 ppb	5,465.041 ppb	15,903.909 ppb	113.701 %
Concentration per Run 1	109.260 %	97.615 %	50.277 ppb	10,555.304 ppb	7,528.199 ppb	55.767 ppb	5,187.414 ppb	15,292.426 ppb	116.090 %
Concentration per Run 2	105.995 %	103.748 %	48.836 ppb	10,764.648 ppb	7,802.192 ppb	58.444 ppb	5,908.919 ppb	16,670.959 ppb	117.135 %
Concentration per Run 3	103.849 %	109.881 %	51.336 ppb	10,382.799 ppb	7,643.663 ppb	54.452 ppb	5,298.791 ppb	15,748.341 ppb	107.877 %
Concentration RSD	2.6 %	5.9 %	2.5 %	1.8 %	1.8 %	3.6 %	7.1 %	4.4 %	4.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	51.158 ppb	50.611 ppb	226.699 ppb	5,467.662 ppb	50.734 ppb	53.924 ppb	51.216 ppb	59.480 ppb	100.450 %
Concentration per Run 1	50.296 ppb	50.542 ppb	227.815 ppb	5,542.652 ppb	50.657 ppb	54.483 ppb	52.797 ppb	59.328 ppb	89.510 %
Concentration per Run 2	50.371 ppb	48.651 ppb	219.751 ppb	5,175.403 ppb	47.977 ppb	50.787 ppb	47.035 ppb	57.522 ppb	111.604 %
Concentration per Run 3	52.806 ppb	52.640 ppb	232.532 ppb	5,684.930 ppb	53.568 ppb	56.501 ppb	53.817 ppb	61.590 ppb	100.235 %
Concentration RSD	2.8 %	3.9 %	2.9 %	4.8 %	5.5 %	5.4 %	7.1 %	3.4 %	11.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	51.611 ppb	52.475 ppb	89.831 ppb	51.746 ppb	98.378 %	4.283 ppb	49.024 ppb	103.183 %	49.851 ppb
Concentration per Run 1	51.377 ppb	50.780 ppb	89.934 ppb	52.176 ppb	87.652 %	4.301 ppb	49.325 ppb	91.801 %	50.589 ppb
Concentration per Run 2	50.068 ppb	52.853 ppb	89.398 ppb	50.744 ppb	105.275 %	4.227 ppb	48.621 ppb	110.056 %	48.869 ppb
Concentration per Run 3	53.388 ppb	53.792 ppb	90.161 ppb	52.317 ppb	102.207 %	4.320 ppb	49.125 ppb	107.691 %	50.094 ppb
Concentration RSD	3.2 %	2.9 %	0.4 %	1.7 %	9.6 %	1.1 %	0.7 %	9.6 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.057 ppb	103.913 %	104.990 %	49.959 ppb	49.257 ppb	96.005 %
Concentration per Run 1	60.062 ppb	91.505 %	91.571 %	49.380 ppb	49.233 ppb	84.062 %
Concentration per Run 2	58.606 ppb	109.880 %	111.640 %	50.650 ppb	49.440 ppb	99.196 %
Concentration per Run 3	58.503 ppb	110.355 %	111.759 %	49.848 ppb	49.096 ppb	104.758 %
Concentration RSD	1.5 %	10.3 %	11.1 %	1.3 %	0.4 %	11.2 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 47 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: WG1809732-4 6020TL Rack 1
 Analysis started at: 8/1/2023 3:28:00 PM Vial 38

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	114.120 %	113.799 %	-0.011 ppb	57,146.051 ppb	25,380.347 ppb	33.433 ppb	3,449.772 ppb	119,708.964 ppb	132.106 %
Concentration per Run 1	118.498 %	100.170 %	-0.017 ppb	59,141.307 ppb	26,114.318 ppb	35.131 ppb	3,584.978 ppb	122,898.501 ppb	137.114 %
Concentration per Run 2	111.521 %	126.746 %	0.000 ppb	55,624.389 ppb	24,937.103 ppb	32.667 ppb	3,319.782 ppb	115,204.428 ppb	127.889 %
Concentration per Run 3	112.343 %	114.481 %	-0.014 ppb	56,672.456 ppb	25,089.620 ppb	32.500 ppb	3,444.555 ppb	121,023.963 ppb	131.315 %
Concentration RSD	3.3 %	11.7 %	86.6 %	3.2 %	2.5 %	4.4 %	3.8 %	3.4 %	3.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.629 ppb	0.344 ppb	1,878.865 ppb	2,665.729 ppb	0.485 ppb	20.992 ppb	1.547 ppb	73.208 ppb	104.465 %
Concentration per Run 1	0.612 ppb	0.393 ppb	1,903.146 ppb	2,708.871 ppb	0.520 ppb	21.358 ppb	1.571 ppb	74.522 ppb	95.969 %
Concentration per Run 2	0.695 ppb	0.301 ppb	1,829.877 ppb	2,632.988 ppb	0.461 ppb	20.660 ppb	1.529 ppb	71.619 ppb	112.759 %
Concentration per Run 3	0.580 ppb	0.339 ppb	1,903.573 ppb	2,655.329 ppb	0.475 ppb	20.958 ppb	1.542 ppb	73.483 ppb	104.669 %
Concentration RSD	9.4 %	13.5 %	2.3 %	1.5 %	6.3 %	1.7 %	1.4 %	2.0 %	8.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.659 ppb	0.237 ppb	419.869 ppb	3.707 ppb	98.198 %	0.002 ppb	0.015 ppb	106.124 %	2.924 ppb
Concentration per Run 1	2.743 ppb	0.350 ppb	411.392 ppb	3.667 ppb	93.452 %	0.002 ppb	0.015 ppb	98.551 %	2.892 ppb
Concentration per Run 2	2.554 ppb	0.157 ppb	432.644 ppb	3.762 ppb	100.688 %	0.002 ppb	0.014 ppb	112.565 %	2.945 ppb
Concentration per Run 3	2.679 ppb	0.205 ppb	415.570 ppb	3.693 ppb	100.454 %	0.002 ppb	0.015 ppb	107.258 %	2.936 ppb
Concentration RSD	3.6 %	42.4 %	2.7 %	1.3 %	4.2 %	12.5 %	5.0 %	6.7 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	107.102 ppb	108.023 %	110.033 %	0.197 ppb	1.031 ppb	91.609 %
Concentration per Run 1	104.628 ppb	100.272 %	100.269 %	0.204 ppb	1.046 ppb	83.505 %
Concentration per Run 2	108.595 ppb	112.330 %	116.125 %	0.221 ppb	1.019 ppb	95.757 %
Concentration per Run 3	108.084 ppb	111.467 %	113.704 %	0.166 ppb	1.027 ppb	95.564 %
Concentration RSD	2.0 %	6.2 %	7.8 %	14.4 %	1.3 %	7.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 48 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343182-01 6020TL Rack 1
 Analysis started at: 8/1/2023 3:32:28 PM Vial 36

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	112.971 %	126.406 %	-0.007 ppb	52,122.243 ppb	23,047.613 ppb	29.095 ppb	3,041.898 ppb	108,526.083 ppb	130.516 %
Concentration per Run 1	117.231 %	121.124 %	-0.011 ppb	52,321.690 ppb	23,706.961 ppb	28.165 ppb	2,955.933 ppb	104,963.503 ppb	134.944 %
Concentration per Run 2	113.477 %	135.435 %	-0.005 ppb	50,479.399 ppb	22,255.781 ppb	29.887 ppb	3,170.320 ppb	111,249.417 ppb	132.383 %
Concentration per Run 3	108.206 %	122.658 %	-0.006 ppb	53,565.640 ppb	23,180.097 ppb	29.233 ppb	2,999.442 ppb	109,365.330 ppb	124.220 %
Concentration RSD	4.0 %	6.2 %	48.0 %	3.0 %	3.2 %	3.0 %	3.7 %	3.0 %	4.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.609 ppb	0.339 ppb	1,767.226 ppb	2,497.115 ppb	0.439 ppb	20.253 ppb	1.517 ppb	69.529 ppb	107.878 %
Concentration per Run 1	0.632 ppb	0.360 ppb	1,727.295 ppb	2,489.721 ppb	0.457 ppb	20.323 ppb	1.578 ppb	69.995 ppb	100.700 %
Concentration per Run 2	0.551 ppb	0.342 ppb	1,741.517 ppb	2,437.714 ppb	0.398 ppb	19.389 ppb	1.380 ppb	68.563 ppb	114.845 %
Concentration per Run 3	0.645 ppb	0.317 ppb	1,832.865 ppb	2,563.911 ppb	0.463 ppb	21.049 ppb	1.594 ppb	70.029 ppb	108.090 %
Concentration RSD	8.4 %	6.3 %	3.2 %	2.5 %	8.2 %	4.1 %	7.8 %	1.2 %	6.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.454 ppb	0.139 ppb	402.042 ppb	3.561 ppb	98.005 %	0.001 ppb	0.013 ppb	106.054 %	2.840 ppb
Concentration per Run 1	2.386 ppb	0.155 ppb	399.969 ppb	3.622 ppb	91.028 %	0.001 ppb	0.010 ppb	98.775 %	2.862 ppb
Concentration per Run 2	2.444 ppb	0.163 ppb	410.655 ppb	3.539 ppb	103.352 %	0.002 ppb	0.016 ppb	112.782 %	2.774 ppb
Concentration per Run 3	2.533 ppb	0.098 ppb	395.503 ppb	3.522 ppb	99.634 %	0.001 ppb	0.014 ppb	106.604 %	2.886 ppb
Concentration RSD	3.0 %	25.5 %	1.9 %	1.5 %	6.5 %	42.8 %	23.4 %	6.6 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	105.350 ppb	107.908 %	108.394 %	0.042 ppb	1.020 ppb	89.707 %
Concentration per Run 1	105.575 ppb	100.106 %	98.401 %	0.029 ppb	1.021 ppb	82.197 %
Concentration per Run 2	104.800 ppb	112.445 %	115.752 %	0.049 ppb	1.013 ppb	92.157 %
Concentration per Run 3	105.674 ppb	111.173 %	111.027 %	0.049 ppb	1.025 ppb	94.768 %
Concentration RSD	0.5 %	6.3 %	8.3 %	26.9 %	0.6 %	7.4 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 49 User name ALPHALAB\la2-icpmsq Comment <Comment>
 Analysis label: L2343631-01 6020TL Rack 1
 Analysis started at: 8/1/2023 3:36:58 PM Vial 41

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	284.130 %	373.089 %	-0.048 ppb	82,505.878 ppb	4,931.293 ppb	2.841 ppb	24,821.201 ppb	251,828.286 ppb	125.428 %
Concentration per Run 1	296.899 %	357.756 %	-0.050 ppb	81,488.455 ppb	4,769.441 ppb	2.634 ppb	23,945.772 ppb	246,986.144 ppb	130.588 %
Concentration per Run 2	279.508 %	390.466 %	-0.048 ppb	83,638.320 ppb	5,093.058 ppb	3.131 ppb	25,348.739 ppb	250,984.113 ppb	121.164 %
Concentration per Run 3	275.982 %	371.044 %	-0.045 ppb	82,390.859 ppb	4,931.381 ppb	2.757 ppb	25,169.091 ppb	257,514.599 ppb	124.530 %
Concentration RSD	3.9 %	4.4 %	5.5 %	1.3 %	3.3 %	9.1 %	3.1 %	2.1 %	3.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.155 ppb	0.891 ppb	467.907 ppb	23,289.416 ppb	0.229 ppb	2.158 ppb	0.031 ppb	2.485 ppb	116.348 %
Concentration per Run 1	0.123 ppb	0.862 ppb	465.638 ppb	22,967.853 ppb	0.239 ppb	2.103 ppb	0.015 ppb	2.465 ppb	109.568 %
Concentration per Run 2	0.184 ppb	0.905 ppb	473.525 ppb	23,552.974 ppb	0.208 ppb	2.104 ppb	0.031 ppb	2.438 ppb	124.196 %
Concentration per Run 3	0.159 ppb	0.905 ppb	464.559 ppb	23,347.420 ppb	0.241 ppb	2.265 ppb	0.047 ppb	2.554 ppb	115.279 %
Concentration RSD	19.5 %	2.8 %	1.0 %	1.3 %	8.1 %	4.3 %	52.3 %	2.4 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.755 ppb	0.039 ppb	8,561.574 ppb	18.880 ppb	99.612 %	0.001 ppb	0.007 ppb	111.133 %	0.248 ppb
Concentration per Run 1	2.831 ppb	0.036 ppb	8,368.086 ppb	18.676 ppb	95.113 %	0.001 ppb	0.006 ppb	101.686 %	0.241 ppb
Concentration per Run 2	2.655 ppb	0.040 ppb	8,919.333 ppb	18.568 ppb	101.460 %	0.001 ppb	0.004 ppb	119.845 %	0.243 ppb
Concentration per Run 3	2.779 ppb	0.042 ppb	8,397.302 ppb	19.396 ppb	102.264 %	0.001 ppb	0.012 ppb	111.869 %	0.261 ppb
Concentration RSD	3.3 %	7.1 %	3.6 %	2.4 %	3.9 %	11.9 %	52.3 %	8.2 %	4.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	223.351 ppb	101.822 %	102.049 %	0.019 ppb	0.074 ppb	82.286 %
Concentration per Run 1	224.713 ppb	96.092 %	94.244 %	0.007 ppb	0.070 ppb	75.631 %
Concentration per Run 2	223.134 ppb	105.336 %	107.787 %	0.022 ppb	0.070 ppb	86.824 %
Concentration per Run 3	222.206 ppb	104.038 %	104.116 %	0.026 ppb	0.081 ppb	84.403 %
Concentration RSD	0.6 %	4.9 %	6.9 %	52.3 %	8.4 %	7.2 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 50 User name ALPHALAB\la2-icpmsq Comment <Comment>
 Analysis label: L2343657-01 6020TL Rack 1
 Analysis started at: 8/1/2023 3:41:27 PM Vial 42

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	134.825 %	133.390 %	0.103 ppb	30,953.227 ppb	11,367.319 ppb	98.421 ppb	6,756.966 ppb	50,448.029 ppb	137.227 %
Concentration per Run 1	138.195 %	131.346 %	0.097 ppb	29,893.338 ppb	10,774.716 ppb	93.088 ppb	6,553.046 ppb	48,642.783 ppb	140.556 %
Concentration per Run 2	135.647 %	142.590 %	0.110 ppb	31,022.909 ppb	11,571.413 ppb	101.020 ppb	6,921.132 ppb	52,264.736 ppb	137.138 %
Concentration per Run 3	130.633 %	126.235 %	0.101 ppb	31,943.434 ppb	11,755.828 ppb	101.156 ppb	6,796.720 ppb	50,436.569 ppb	133.985 %
Concentration RSD	2.9 %	6.3 %	6.5 %	3.3 %	4.6 %	4.7 %	2.8 %	3.6 %	2.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	32.183 ppb	0.179 ppb	6,362.989 ppb	5,990.360 ppb	16.783 ppb	10.854 ppb	0.226 ppb	5.075 ppb	162.971 %
Concentration per Run 1	31.308 ppb	0.170 ppb	6,194.860 ppb	5,876.965 ppb	16.618 ppb	10.816 ppb	0.224 ppb	5.253 ppb	152.199 %
Concentration per Run 2	32.697 ppb	0.185 ppb	6,510.812 ppb	6,104.079 ppb	16.827 ppb	10.658 ppb	0.215 ppb	5.008 ppb	166.171 %
Concentration per Run 3	32.543 ppb	0.182 ppb	6,383.295 ppb	5,990.037 ppb	16.904 ppb	11.086 ppb	0.239 ppb	4.965 ppb	170.545 %
Concentration RSD	2.4 %	4.3 %	2.5 %	1.9 %	0.9 %	2.0 %	5.3 %	3.1 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	30.345 ppb	1.575 ppb	828.648 ppb	10.743 ppb	94.944 %	-0.001 ppb	0.064 ppb	102.283 %	4.293 ppb
Concentration per Run 1	29.972 ppb	1.655 ppb	795.178 ppb	10.703 ppb	90.299 %	-0.002 ppb	0.062 ppb	93.953 %	4.321 ppb
Concentration per Run 2	31.455 ppb	1.556 ppb	899.848 ppb	10.509 ppb	95.752 %	-0.002 ppb	0.065 ppb	107.639 %	4.199 ppb
Concentration per Run 3	29.608 ppb	1.514 ppb	790.919 ppb	11.016 ppb	98.779 %	-0.001 ppb	0.063 ppb	105.257 %	4.360 ppb
Concentration RSD	3.2 %	4.6 %	7.4 %	2.4 %	4.5 %	16.4 %	2.3 %	7.1 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	67.373 ppb	102.771 %	103.739 %	1.416 ppb	0.092 ppb	87.384 %
Concentration per Run 1	66.693 ppb	94.733 %	93.559 %	1.417 ppb	0.091 ppb	78.640 %
Concentration per Run 2	67.378 ppb	103.733 %	106.517 %	1.424 ppb	0.095 ppb	89.137 %
Concentration per Run 3	68.047 ppb	109.847 %	111.142 %	1.407 ppb	0.090 ppb	94.374 %
Concentration RSD	1.0 %	7.4 %	8.8 %	0.6 %	2.8 %	9.2 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 51 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343657-02 6020TL Rack 1
 Analysis started at: 8/1/2023 3:45:55 PM Vial 43

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.887 %	127.087 %	-0.016 ppb	113,185.676 ppb	48,613.895 ppb	14.039 ppb	53,785.504 ppb	448,916.272 ppb	130.768 %
Concentration per Run 1	108.125 %	123.169 %	-0.011 ppb	107,547.421 ppb	46,882.773 ppb	12.792 ppb	50,914.191 ppb	418,415.572 ppb	137.233 %
Concentration per Run 2	101.682 %	123.680 %	-0.023 ppb	127,387.689 ppb	53,643.290 ppb	15.725 ppb	59,886.958 ppb	504,666.280 ppb	128.329 %
Concentration per Run 3	98.854 %	134.412 %	-0.013 ppb	104,621.920 ppb	45,315.622 ppb	13.601 ppb	50,555.362 ppb	423,666.963 ppb	126.742 %
Concentration RSD	4.6 %	5.0 %	43.0 %	10.9 %	9.1 %	10.8 %	9.8 %	10.8 %	4.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.579 ppb	0.124 ppb	5,761.456 ppb	879.599 ppb	1.130 ppb	1.539 ppb	0.313 ppb	-0.771 ppb	113.744 %
Concentration per Run 1	0.524 ppb	0.114 ppb	5,493.596 ppb	840.000 ppb	1.106 ppb	1.483 ppb	0.305 ppb	-0.791 ppb	106.426 %
Concentration per Run 2	0.672 ppb	0.154 ppb	6,361.380 ppb	956.567 ppb	1.195 ppb	1.579 ppb	0.332 ppb	-0.737 ppb	117.988 %
Concentration per Run 3	0.541 ppb	0.104 ppb	5,429.393 ppb	842.228 ppb	1.089 ppb	1.555 ppb	0.302 ppb	-0.785 ppb	116.818 %
Concentration RSD	14.0 %	21.2 %	9.0 %	7.6 %	5.0 %	3.3 %	5.2 %	3.9 %	5.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	5.872 ppb	0.291 ppb	4,474.638 ppb	1,180.006 ppb	96.841 %	-0.001 ppb	0.213 ppb	107.624 %	0.095 ppb
Concentration per Run 1	5.898 ppb	0.276 ppb	4,335.862 ppb	1,167.702 ppb	94.460 %	-0.001 ppb	0.211 ppb	99.603 %	0.103 ppb
Concentration per Run 2	6.166 ppb	0.360 ppb	4,754.774 ppb	1,179.149 ppb	102.227 %	0.000 ppb	0.211 ppb	119.978 %	0.089 ppb
Concentration per Run 3	5.553 ppb	0.237 ppb	4,333.278 ppb	1,193.167 ppb	93.835 %	-0.001 ppb	0.218 ppb	103.292 %	0.094 ppb
Concentration RSD	5.2 %	21.5 %	5.4 %	1.1 %	4.8 %	88.8 %	1.9 %	10.1 %	7.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	40.570 ppb	102.465 %	102.331 %	0.146 ppb	0.055 ppb	81.986 %
Concentration per Run 1	39.961 ppb	95.832 %	93.933 %	0.142 ppb	0.053 ppb	75.623 %
Concentration per Run 2	40.225 ppb	109.975 %	110.368 %	0.149 ppb	0.057 ppb	88.508 %
Concentration per Run 3	41.524 ppb	101.588 %	102.690 %	0.149 ppb	0.055 ppb	81.828 %
Concentration RSD	2.1 %	6.9 %	8.0 %	2.8 %	4.0 %	7.9 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 52 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809732-6D5 6020TL Rack: 1
 Analysis started at: 8/1/2023 3:50:24 PM Vial: 40

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.357 %	119.932 %	-0.016 ppb	10,221.818 ppb	4,712.177 ppb	5.733 ppb	580.921 ppb	20,471.308 ppb	113.703 %
Concentration per Run 1	110.336 %	123.169 %	-0.021 ppb	9,683.585 ppb	4,515.548 ppb	5.694 ppb	569.197 ppb	19,446.952 ppb	115.415 %
Concentration per Run 2	111.547 %	116.014 %	-0.016 ppb	10,548.787 ppb	4,773.602 ppb	5.443 ppb	586.692 ppb	20,928.723 ppb	114.370 %
Concentration per Run 3	106.188 %	120.613 %	-0.011 ppb	10,433.083 ppb	4,847.382 ppb	6.060 ppb	586.874 ppb	21,038.248 ppb	111.323 %
Concentration RSD	2.6 %	3.0 %	31.2 %	4.6 %	3.7 %	5.4 %	1.7 %	4.3 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.130 ppb	0.056 ppb	339.382 ppb	478.448 ppb	0.076 ppb	4.330 ppb	0.301 ppb	14.573 ppb	105.152 %
Concentration per Run 1	0.114 ppb	0.050 ppb	335.511 ppb	459.783 ppb	0.073 ppb	4.482 ppb	0.315 ppb	15.053 ppb	97.609 %
Concentration per Run 2	0.145 ppb	0.055 ppb	346.955 ppb	478.955 ppb	0.082 ppb	4.161 ppb	0.278 ppb	14.139 ppb	109.299 %
Concentration per Run 3	0.132 ppb	0.064 ppb	335.681 ppb	496.605 ppb	0.073 ppb	4.347 ppb	0.310 ppb	14.526 ppb	108.548 %
Concentration RSD	11.8 %	11.8 %	1.9 %	3.8 %	7.0 %	3.7 %	6.7 %	3.1 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.528 ppb	0.004 ppb	75.915 ppb	2.385 ppb	99.684 %	0.000 ppb	0.004 ppb	105.026 %	0.570 ppb
Concentration per Run 1	0.544 ppb	0.017 ppb	75.219 ppb	2.481 ppb	97.126 %	0.000 ppb	0.002 ppb	97.216 %	0.584 ppb
Concentration per Run 2	0.504 ppb	0.006 ppb	73.516 ppb	2.537 ppb	101.562 %	0.000 ppb	0.006 ppb	109.224 %	0.547 ppb
Concentration per Run 3	0.536 ppb	-0.010 ppb	79.011 ppb	2.138 ppb	100.363 %	0.001 ppb	0.002 ppb	108.636 %	0.578 ppb
Concentration RSD	4.0 %	311.6 %	3.7 %	9.1 %	2.3 %	191.5 %	59.5 %	6.4 %	3.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	20.013 ppb	103.488 %	103.706 %	-0.006 ppb	0.191 ppb	94.047 %
Concentration per Run 1	20.224 ppb	98.429 %	96.803 %	-0.012 ppb	0.188 ppb	87.779 %
Concentration per Run 2	19.443 ppb	105.269 %	103.839 %	-0.003 ppb	0.197 ppb	96.904 %
Concentration per Run 3	20.370 ppb	106.765 %	110.476 %	-0.003 ppb	0.187 ppb	97.458 %
Concentration RSD	2.5 %	4.3 %	6.6 %	84.9 %	2.7 %	5.8 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 53 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: CCV Rack: 0
 Analysis started at: 8/1/2023 3:54:52 PM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	110.732 %	102.555 %	57.831 ppb	5,887.907 ppb	5,945.898 ppb	62.095 ppb	5,928.393 ppb	5,844.263 ppb	117.423 %
Concentration per Run 1	113.828 %	108.859 %	57.582 ppb	5,287.029 ppb	5,446.301 ppb	54.863 ppb	5,379.239 ppb	5,507.797 ppb	121.518 %
Concentration per Run 2	108.915 %	106.814 %	59.518 ppb	5,407.316 ppb	5,536.711 ppb	57.450 ppb	5,404.987 ppb	5,301.377 ppb	113.905 %
Concentration per Run 3	109.452 %	91.993 %	56.395 ppb	6,969.377 ppb	6,854.682 ppb	73.970 ppb	7,000.955 ppb	6,723.615 ppb	116.845 %
Recovery Percentage 1			96.386 %	98.132 %	99.098 %	103.491 %	98.807 %	97.404 %	
Concentration RSD	2.4 %	9.0 %	2.7 %	15.9 %	13.3 %	16.7 %	15.7 %	13.1 %	3.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	56.396 ppb	56.923 ppb	59.440 ppb	5,799.141 ppb	58.199 ppb	58.074 ppb	58.747 ppb	59.563 ppb	104.653 %
Concentration per Run 1	52.608 ppb	55.131 ppb	55.787 ppb	5,493.490 ppb	55.703 ppb	55.817 ppb	57.395 ppb	56.870 ppb	103.821 %
Concentration per Run 2	55.668 ppb	55.346 ppb	58.891 ppb	5,805.021 ppb	58.208 ppb	59.459 ppb	60.456 ppb	60.382 ppb	98.077 %
Concentration per Run 3	60.912 ppb	60.294 ppb	63.642 ppb	6,098.913 ppb	60.687 ppb	58.945 ppb	58.391 ppb	61.437 ppb	112.063 %
Recovery Percentage 1	93.993 %	94.872 %	99.066 %	96.652 %	96.999 %	96.790 %	97.912 %	99.271 %	
Concentration RSD	7.4 %	5.1 %	6.7 %	5.2 %	4.3 %	3.4 %	2.7 %	4.0 %	6.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.766 ppb	60.863 ppb	58.769 ppb	57.578 ppb	99.505 %	56.524 ppb	58.240 ppb	102.545 %	57.023 ppb
Concentration per Run 1	58.294 ppb	57.952 ppb	57.084 ppb	57.358 ppb	95.440 %	57.580 ppb	59.102 ppb	97.448 %	56.916 ppb
Concentration per Run 2	59.035 ppb	61.169 ppb	58.085 ppb	57.529 ppb	93.917 %	56.318 ppb	58.069 ppb	95.593 %	58.380 ppb
Concentration per Run 3	61.969 ppb	63.468 ppb	61.138 ppb	57.845 ppb	109.157 %	55.673 ppb	57.548 ppb	114.594 %	55.774 ppb
Recovery Percentage 1	99.610 %	101.438 %	97.948 %	95.963 %		94.206 %	97.066 %		95.038 %
Concentration RSD	3.3 %	4.6 %	3.6 %	0.4 %	8.4 %	1.7 %	1.4 %	10.2 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.089 ppb	103.078 %	103.240 %	56.877 ppb	56.873 ppb	97.008 %
Concentration per Run 1	56.992 ppb	96.693 %	95.871 %	56.665 ppb	56.351 ppb	89.738 %
Concentration per Run 2	58.457 ppb	98.227 %	97.136 %	57.138 ppb	57.396 ppb	92.355 %
Concentration per Run 3	58.817 ppb	114.314 %	116.714 %	56.828 ppb	56.870 ppb	108.931 %
Recovery Percentage 1	96.815 %			94.795 %	94.788 %	
Concentration RSD	1.7 %	9.5 %	11.3 %	0.4 %	0.9 %	10.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 54 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/1/2023 3:59:25 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	112.956 %	106.985 %	-0.011 ppb	-0.845 ppb	0.469 ppb	0.083 ppb	-2.903 ppb	2.337 ppb	113.954 %
Concentration per Run 1	115.681 %	96.593 %	-0.008 ppb	-0.566 ppb	0.289 ppb	0.049 ppb	-4.086 ppb	3.989 ppb	119.636 %
Concentration per Run 2	112.130 %	110.392 %	-0.013 ppb	-0.875 ppb	0.654 ppb	0.159 ppb	-1.577 ppb	1.270 ppb	110.211 %
Concentration per Run 3	111.057 %	113.969 %	-0.012 ppb	-1.092 ppb	0.465 ppb	0.040 ppb	-3.046 ppb	1.752 ppb	112.015 %
Recovery Percentage 1			-2.196 %	-0.845 %	0.671 %	0.828 %	-2.903 %	2.337 %	
Concentration RSD	2.1 %	8.6 %	27.7 %	31.3 %	38.8 %	79.8 %	43.4 %	62.1 %	4.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.003 ppb	-0.007 ppb	0.090 ppb	5.041 ppb	-0.012 ppb	-0.014 ppb	0.016 ppb	-0.885 ppb	106.101 %
Concentration per Run 1	-0.003 ppb	-0.009 ppb	0.112 ppb	4.461 ppb	-0.010 ppb	-0.032 ppb	0.020 ppb	-0.871 ppb	103.409 %
Concentration per Run 2	-0.006 ppb	-0.007 ppb	0.107 ppb	5.669 ppb	-0.018 ppb	-0.012 ppb	0.009 ppb	-0.903 ppb	105.534 %
Concentration per Run 3	0.020 ppb	-0.005 ppb	0.049 ppb	4.992 ppb	-0.009 ppb	0.003 ppb	0.017 ppb	-0.882 ppb	109.362 %
Recovery Percentage 1	0.068 %	-0.725 %	8.961 %	10.081 %	-2.458 %	-0.695 %	1.570 %	-17.701 %	
Concentration RSD	414.5 %	27.6 %	39.4 %	12.0 %	38.8 %	125.6 %	36.9 %	1.9 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.002 ppb	0.034 ppb	0.055 ppb	0.255 ppb	104.381 %	0.007 ppb	0.001 ppb	103.956 %	0.025 ppb
Concentration per Run 1	0.002 ppb	0.028 ppb	0.056 ppb	0.251 ppb	101.877 %	0.008 ppb	0.002 ppb	101.181 %	0.023 ppb
Concentration per Run 2	0.002 ppb	0.027 ppb	0.057 ppb	0.274 ppb	104.105 %	0.008 ppb	0.000 ppb	105.392 %	0.028 ppb
Concentration per Run 3	0.001 ppb	0.046 ppb	0.053 ppb	0.239 ppb	107.160 %	0.006 ppb	0.001 ppb	105.293 %	0.024 ppb
Recovery Percentage 1	0.333 %	0.670 %	0.553 %	12.739 %		1.860 %	0.488 %		0.618 %
Concentration RSD	35.7 %	32.3 %	3.5 %	7.0 %	2.5 %	13.7 %	81.4 %	2.3 %	10.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.017 ppb	106.415 %	107.180 %	0.181 ppb	0.002 ppb	106.408 %
Concentration per Run 1	-0.012 ppb	101.465 %	101.078 %	0.180 ppb	0.001 ppb	99.255 %
Concentration per Run 2	-0.028 ppb	108.186 %	108.781 %	0.208 ppb	0.002 ppb	108.356 %
Concentration per Run 3	-0.012 ppb	109.592 %	111.679 %	0.154 ppb	0.001 ppb	111.612 %
Recovery Percentage 1	-3.448 %			18.072 %	0.168 %	
Concentration RSD	52.2 %	4.1 %	5.1 %	14.8 %	31.7 %	6.0 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 55 User name ALPHALAB\la2-icpmsq Comment <Comment>
 Analysis label: L2343657-03 6020TL Rack 1
 Analysis started at: 8/1/2023 4:05:10 PM Vial 44

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.157 %	107.836 %	0.012 ppb	47,673.978 ppb	25,354.353 ppb	97.984 ppb	17,080.022 ppb	65,395.076 ppb	117.610 %
Concentration per Run 1	101.054 %	97.104 %	0.007 ppb	50,982.180 ppb	27,490.790 ppb	105.472 ppb	17,247.850 ppb	66,394.691 ppb	122.177 %
Concentration per Run 2	95.893 %	119.080 %	0.011 ppb	43,848.022 ppb	23,306.714 ppb	91.948 ppb	16,541.622 ppb	63,993.455 ppb	120.748 %
Concentration per Run 3	91.524 %	107.325 %	0.019 ppb	48,191.733 ppb	25,265.553 ppb	96.533 ppb	17,450.595 ppb	65,797.083 ppb	109.906 %
Concentration RSD	5.0 %	10.2 %	49.5 %	7.5 %	8.3 %	7.0 %	2.8 %	1.9 %	5.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.472 ppb	0.901 ppb	5,093.099 ppb	360,523.389 ppb	19.955 ppb	34.081 ppb	0.359 ppb	67.306 ppb	123.520 %
Concentration per Run 1	0.482 ppb	0.960 ppb	5,223.239 ppb	369,173.895 ppb	20.370 ppb	35.008 ppb	0.342 ppb	67.850 ppb	121.318 %
Concentration per Run 2	0.471 ppb	0.846 ppb	4,969.922 ppb	349,897.525 ppb	19.350 ppb	33.140 ppb	0.372 ppb	67.654 ppb	122.545 %
Concentration per Run 3	0.463 ppb	0.897 ppb	5,086.135 ppb	362,498.748 ppb	20.144 ppb	34.096 ppb	0.364 ppb	66.415 ppb	126.697 %
Concentration RSD	2.0 %	6.3 %	2.5 %	2.7 %	2.7 %	2.7 %	4.4 %	1.2 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.092 ppb	0.789 ppb	444.531 ppb	0.140 ppb	102.704 %	0.003 ppb	0.033 ppb	129.452 %	0.163 ppb
Concentration per Run 1	4.072 ppb	0.860 ppb	424.794 ppb	0.122 ppb	96.365 %	0.003 ppb	0.034 ppb	119.412 %	0.161 ppb
Concentration per Run 2	4.129 ppb	0.702 ppb	457.650 ppb	0.151 ppb	106.577 %	0.002 ppb	0.035 ppb	133.625 %	0.167 ppb
Concentration per Run 3	4.074 ppb	0.804 ppb	451.149 ppb	0.147 ppb	105.170 %	0.004 ppb	0.030 ppb	135.319 %	0.161 ppb
Concentration RSD	0.8 %	10.1 %	3.9 %	11.0 %	5.4 %	30.8 %	8.3 %	6.7 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	14.392 ppb	117.363 %	125.357 %	0.094 ppb	0.192 ppb	101.402 %
Concentration per Run 1	14.495 ppb	108.779 %	112.774 %	0.087 ppb	0.195 ppb	94.988 %
Concentration per Run 2	14.337 ppb	121.020 %	130.612 %	0.099 ppb	0.192 ppb	102.767 %
Concentration per Run 3	14.343 ppb	122.290 %	132.686 %	0.095 ppb	0.190 ppb	106.452 %
Concentration RSD	0.6 %	6.4 %	8.7 %	6.5 %	1.2 %	5.8 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 56 User name: ALPHALABla2-icpmsq2 Comment: <Comment>
 Analysis label: L2338021-04D5 6020TL Rack: 1
 Analysis started at: 8/1/2023 4:09:39 PM Vial: 45

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	108.427 %	111.244 %	0.087 ppb	55,464.500 ppb	47,907.711 ppb	144.041 ppb	2,498.759 ppb	100,502.702 ppb	130.318 %
Concentration per Run 1	113.125 %	110.392 %	0.080 ppb	52,715.402 ppb	45,746.094 ppb	135.985 ppb	2,396.665 ppb	98,171.521 ppb	135.738 %
Concentration per Run 2	105.996 %	98.126 %	0.096 ppb	62,336.514 ppb	54,847.431 ppb	160.012 ppb	2,663.571 ppb	104,702.648 ppb	127.251 %
Concentration per Run 3	106.161 %	125.213 %	0.084 ppb	51,341.582 ppb	43,129.607 ppb	136.126 ppb	2,436.041 ppb	98,633.937 ppb	127.965 %
Concentration RSD	3.8 %	12.2 %	9.6 %	10.8 %	12.8 %	9.6 %	5.8 %	3.6 %	3.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	4.606 ppb	0.594 ppb	374.332 ppb	342.521 ppb	5.233 ppb	17.612 ppb	33.149 ppb	7.620 ppb	110.422 %
Concentration per Run 1	4.608 ppb	0.611 ppb	357.772 ppb	335.272 ppb	5.156 ppb	17.138 ppb	32.692 ppb	7.622 ppb	106.207 %
Concentration per Run 2	4.830 ppb	0.609 ppb	402.487 ppb	369.056 ppb	5.524 ppb	19.079 ppb	34.690 ppb	8.082 ppb	111.334 %
Concentration per Run 3	4.380 ppb	0.562 ppb	362.737 ppb	323.233 ppb	5.019 ppb	16.620 ppb	32.066 ppb	7.154 ppb	113.725 %
Concentration RSD	4.9 %	4.7 %	6.5 %	6.9 %	5.0 %	7.4 %	4.1 %	6.1 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.369 ppb	0.082 ppb	890.606 ppb	0.541 ppb	100.651 %	0.005 ppb	0.166 ppb	106.997 %	0.613 ppb
Concentration per Run 1	0.345 ppb	0.121 ppb	854.341 ppb	0.520 ppb	93.791 %	0.005 ppb	0.164 ppb	95.857 %	0.632 ppb
Concentration per Run 2	0.351 ppb	0.031 ppb	913.875 ppb	0.539 ppb	103.316 %	0.005 ppb	0.175 ppb	111.597 %	0.610 ppb
Concentration per Run 3	0.410 ppb	0.093 ppb	903.601 ppb	0.564 ppb	104.845 %	0.005 ppb	0.158 ppb	113.538 %	0.598 ppb
Concentration RSD	9.7 %	56.7 %	3.6 %	4.0 %	6.0 %	6.6 %	5.0 %	9.1 %	2.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	8.566 ppb	107.770 %	111.700 %	0.012 ppb	6.117 ppb	92.947 %
Concentration per Run 1	8.502 ppb	98.494 %	100.874 %	0.005 ppb	6.181 ppb	84.470 %
Concentration per Run 2	8.634 ppb	112.393 %	116.363 %	0.015 ppb	6.064 ppb	96.301 %
Concentration per Run 3	8.560 ppb	112.422 %	117.863 %	0.016 ppb	6.106 ppb	98.071 %
Concentration RSD	0.8 %	7.5 %	8.4 %	51.3 %	1.0 %	8.0 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 57 User name: ALPHALABla2-icpmsq2 Comment: <Comment>
 Analysis label: L2338021-06D5 6020TL Rack: 1
 Analysis started at: 8/1/2023 4:14:09 PM Vial: 46

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.093 %	103.237 %	-0.011 ppb	74,552.916 ppb	9,488.372 ppb	135.465 ppb	5,365.006 ppb	51,765.975 ppb	116.730 %
Concentration per Run 1	99.835 %	106.303 %	-0.008 ppb	69,768.886 ppb	8,901.706 ppb	127.915 ppb	5,150.190 ppb	48,999.460 ppb	121.727 %
Concentration per Run 2	97.159 %	104.770 %	-0.013 ppb	76,180.401 ppb	9,581.166 ppb	136.336 ppb	5,210.706 ppb	52,620.429 ppb	114.528 %
Concentration per Run 3	94.286 %	98.637 %	-0.011 ppb	77,709.461 ppb	9,982.245 ppb	142.143 ppb	5,734.121 ppb	53,678.035 ppb	113.934 %
Concentration RSD	2.9 %	3.9 %	24.7 %	5.7 %	5.8 %	5.3 %	6.0 %	4.7 %	3.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.231 ppb	1.384 ppb	813.110 ppb	182.260 ppb	1.649 ppb	1.489 ppb	1.384 ppb	-0.210 ppb	98.771 %
Concentration per Run 1	0.208 ppb	1.342 ppb	762.270 ppb	170.398 ppb	1.581 ppb	1.379 ppb	1.404 ppb	-0.208 ppb	97.597 %
Concentration per Run 2	0.287 ppb	1.466 ppb	841.305 ppb	189.296 ppb	1.680 ppb	1.591 ppb	1.388 ppb	-0.237 ppb	97.291 %
Concentration per Run 3	0.199 ppb	1.346 ppb	835.754 ppb	187.087 ppb	1.684 ppb	1.498 ppb	1.359 ppb	-0.184 ppb	101.424 %
Concentration RSD	21.2 %	5.1 %	5.4 %	5.7 %	3.5 %	7.1 %	1.6 %	12.5 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.096 ppb	0.131 ppb	254.158 ppb	0.059 ppb	91.748 %	-0.001 ppb	0.004 ppb	95.787 %	0.036 ppb
Concentration per Run 1	0.064 ppb	0.116 ppb	240.137 ppb	0.047 ppb	87.012 %	0.000 ppb	0.004 ppb	87.869 %	0.033 ppb
Concentration per Run 2	0.108 ppb	0.161 ppb	264.051 ppb	0.057 ppb	92.294 %	-0.001 ppb	0.005 ppb	98.778 %	0.033 ppb
Concentration per Run 3	0.115 ppb	0.116 ppb	258.285 ppb	0.074 ppb	95.937 %	0.000 ppb	0.002 ppb	100.713 %	0.042 ppb
Concentration RSD	29.1 %	19.7 %	4.9 %	23.4 %	4.9 %	154.6 %	40.5 %	7.2 %	14.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.745 ppb	97.373 %	98.711 %	-0.003 ppb	0.098 ppb	86.618 %
Concentration per Run 1	1.663 ppb	89.180 %	88.173 %	-0.010 ppb	0.102 ppb	78.360 %
Concentration per Run 2	1.665 ppb	100.037 %	101.032 %	0.001 ppb	0.096 ppb	89.380 %
Concentration per Run 3	1.906 ppb	102.903 %	106.927 %	0.001 ppb	0.096 ppb	92.115 %
Concentration RSD	8.0 %	7.4 %	9.7 %	240.4 %	3.6 %	8.4 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 58 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1808318-1D2 A2-6020T Rack 1
 Analysis started at: 8/1/2023 4:23:57 PM Vial 47

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	110.415 %	99.489 %	0.067 ppb	57,956.460 ppb	2,952.700 ppb	2,036.447 ppb	1,734.539 ppb	6,344.148 ppb	133.588 %
Concentration per Run 1	113.394 %	102.215 %	0.063 ppb	54,324.973 ppb	2,780.916 ppb	1,914.976 ppb	1,659.389 ppb	6,051.441 ppb	138.371 %
Concentration per Run 2	109.803 %	95.060 %	0.070 ppb	61,394.005 ppb	3,183.953 ppb	2,122.638 ppb	1,794.479 ppb	6,448.029 ppb	130.962 %
Concentration per Run 3	108.049 %	101.192 %	0.067 ppb	58,150.402 ppb	2,893.230 ppb	2,071.727 ppb	1,749.748 ppb	6,532.975 ppb	131.430 %
Concentration RSD	2.5 %	3.9 %	5.1 %	6.1 %	7.0 %	5.3 %	4.0 %	4.1 %	3.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.158 ppb	2.610 ppb	2.100 ppb	63.705 ppb	0.068 ppb	0.652 ppb	4.272 ppb	19.565 ppb	105.453 %
Concentration per Run 1	0.162 ppb	2.437 ppb	2.075 ppb	61.150 ppb	0.058 ppb	0.547 ppb	4.058 ppb	18.819 ppb	103.385 %
Concentration per Run 2	0.114 ppb	2.718 ppb	2.199 ppb	65.839 ppb	0.075 ppb	0.689 ppb	4.530 ppb	20.210 ppb	104.121 %
Concentration per Run 3	0.199 ppb	2.674 ppb	2.027 ppb	64.126 ppb	0.071 ppb	0.722 ppb	4.229 ppb	19.667 ppb	108.853 %
Concentration RSD	26.9 %	5.8 %	4.2 %	3.7 %	13.2 %	14.2 %	5.6 %	3.6 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.033 ppb	0.104 ppb	12.573 ppb	0.302 ppb	101.083 %	0.275 ppb	0.004 ppb	103.774 %	0.056 ppb
Concentration per Run 1	0.042 ppb	0.121 ppb	12.258 ppb	0.277 ppb	97.391 %	0.275 ppb	0.004 ppb	97.326 %	0.060 ppb
Concentration per Run 2	0.022 ppb	0.080 ppb	12.846 ppb	0.298 ppb	102.092 %	0.274 ppb	0.006 ppb	106.080 %	0.054 ppb
Concentration per Run 3	0.034 ppb	0.109 ppb	12.615 ppb	0.331 ppb	103.765 %	0.277 ppb	0.001 ppb	107.916 %	0.052 ppb
Concentration RSD	31.3 %	20.3 %	2.4 %	8.9 %	3.3 %	0.7 %	61.2 %	5.5 %	7.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	22.961 ppb	107.589 %	108.882 %	-0.008 ppb	0.418 ppb	99.615 %
Concentration per Run 1	23.166 ppb	100.311 %	101.248 %	-0.010 ppb	0.421 ppb	90.815 %
Concentration per Run 2	22.962 ppb	108.907 %	110.222 %	-0.006 ppb	0.423 ppb	102.073 %
Concentration per Run 3	22.755 ppb	113.550 %	115.175 %	-0.007 ppb	0.412 ppb	105.956 %
Concentration RSD	0.9 %	6.2 %	6.5 %	30.6 %	1.4 %	7.9 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 59 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1808318-2D10 A2-6020T Rack 1
 Analysis started at: 8/1/2023 4:28:27 PM Vial 48

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.456 %	106.814 %	9.985 ppb	9,602.499 ppb	2,496.665 ppb	754.044 ppb	2,292.506 ppb	2,858.126 ppb	118.944 %
Concentration per Run 1	113.254 %	107.837 %	9.842 ppb	9,149.538 ppb	2,332.328 ppb	721.514 ppb	2,274.047 ppb	2,680.483 ppb	124.415 %
Concentration per Run 2	108.811 %	107.836 %	10.393 ppb	9,697.643 ppb	2,553.053 ppb	758.257 ppb	2,233.577 ppb	2,695.754 ppb	115.868 %
Concentration per Run 3	106.302 %	104.770 %	9.721 ppb	9,960.315 ppb	2,604.615 ppb	782.359 ppb	2,369.896 ppb	3,198.142 ppb	116.549 %
Concentration RSD	3.2 %	1.7 %	3.6 %	4.3 %	5.8 %	4.1 %	3.1 %	10.3 %	4.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	97.461 ppb	40.058 ppb	102.710 ppb	218.763 ppb	102.095 ppb	98.312 ppb	53.218 ppb	104.757 ppb	103.143 %
Concentration per Run 1	92.564 ppb	38.244 ppb	95.907 ppb	210.845 ppb	99.272 ppb	92.203 ppb	51.000 ppb	101.738 ppb	104.613 %
Concentration per Run 2	98.366 ppb	40.941 ppb	107.813 ppb	225.491 ppb	104.229 ppb	103.909 ppb	55.049 ppb	106.776 ppb	102.640 %
Concentration per Run 3	101.454 ppb	40.989 ppb	104.409 ppb	219.954 ppb	102.785 ppb	98.825 ppb	53.607 ppb	105.757 ppb	102.176 %
Concentration RSD	4.6 %	3.9 %	6.0 %	3.4 %	2.5 %	6.0 %	3.9 %	2.5 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	24.791 ppb	24.616 ppb	200.832 ppb	193.853 ppb	105.461 %	9.671 ppb	10.490 ppb	106.146 %	37.394 ppb
Concentration per Run 1	24.463 ppb	24.292 ppb	198.199 ppb	189.253 ppb	105.613 %	9.563 ppb	10.298 ppb	106.237 %	35.668 ppb
Concentration per Run 2	25.241 ppb	25.772 ppb	209.256 ppb	194.989 ppb	104.621 %	9.661 ppb	10.583 ppb	108.649 %	37.995 ppb
Concentration per Run 3	24.669 ppb	23.784 ppb	195.041 ppb	197.315 ppb	106.149 %	9.789 ppb	10.590 ppb	103.552 %	38.518 ppb
Concentration RSD	1.6 %	4.2 %	3.7 %	2.1 %	0.7 %	1.2 %	1.6 %	2.4 %	4.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	391.964 ppb	107.302 %	108.099 %	22.512 ppb	107.279 ppb	102.441 %
Concentration per Run 1	390.755 ppb	103.577 %	103.112 %	22.939 ppb	108.106 ppb	96.144 %
Concentration per Run 2	392.980 ppb	109.010 %	110.509 %	22.202 ppb	106.891 ppb	106.108 %
Concentration per Run 3	392.157 ppb	109.320 %	110.676 %	22.396 ppb	106.841 ppb	105.070 %
Concentration RSD	0.3 %	3.0 %	4.0 %	1.7 %	0.7 %	5.3 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 60 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: WG1808318-3d10 A2-6020T Rack 1
 Analysis started at: 8/1/2023 4:32:58 PM Vial 50

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	111.956 %	107.496 %	10.011 ppb	10,511.447 ppb	2,212.479 ppb	2,266.612 ppb	5,091.044 ppb	2,902.101 ppb	118.683 %
Concentration per Run 1	116.011 %	102.215 %	10.015 ppb	11,400.241 ppb	2,404.057 ppb	2,493.161 ppb	5,565.513 ppb	3,194.671 ppb	122.518 %
Concentration per Run 2	109.973 %	106.814 %	10.061 ppb	10,074.160 ppb	2,157.141 ppb	2,210.601 ppb	4,916.577 ppb	2,651.012 ppb	117.126 %
Concentration per Run 3	109.883 %	113.458 %	9.956 ppb	10,059.941 ppb	2,076.238 ppb	2,096.076 ppb	4,791.043 ppb	2,860.620 ppb	116.406 %
Concentration RSD	3.1 %	5.3 %	0.5 %	7.3 %	7.7 %	9.0 %	8.2 %	9.4 %	2.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	93.927 ppb	38.517 ppb	101.130 ppb	284.319 ppb	93.960 ppb	95.280 ppb	59.914 ppb	3,768.530 ppb	112.711 %
Concentration per Run 1	97.325 ppb	39.221 ppb	105.303 ppb	290.717 ppb	94.809 ppb	95.363 ppb	60.117 ppb	3,820.243 ppb	114.435 %
Concentration per Run 2	88.273 ppb	37.260 ppb	96.497 ppb	269.300 ppb	92.406 ppb	93.153 ppb	58.260 ppb	3,697.308 ppb	113.579 %
Concentration per Run 3	96.183 ppb	39.070 ppb	101.591 ppb	292.941 ppb	94.665 ppb	97.325 ppb	61.365 ppb	3,788.039 ppb	110.120 %
Concentration RSD	5.2 %	2.8 %	4.4 %	4.6 %	1.4 %	2.2 %	2.6 %	1.7 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	24.477 ppb	24.124 ppb	268.515 ppb	190.527 ppb	102.676 %	9.661 ppb	10.679 ppb	105.478 %	34.865 ppb
Concentration per Run 1	24.823 ppb	25.906 ppb	280.548 ppb	188.244 ppb	102.170 %	9.560 ppb	10.495 ppb	112.081 %	34.175 ppb
Concentration per Run 2	23.257 ppb	21.816 ppb	254.911 ppb	192.675 ppb	105.101 %	9.627 ppb	10.753 ppb	103.258 %	35.442 ppb
Concentration per Run 3	25.352 ppb	24.652 ppb	270.087 ppb	190.661 ppb	100.757 %	9.797 ppb	10.789 ppb	101.094 %	34.979 ppb
Concentration RSD	4.5 %	8.7 %	4.8 %	1.2 %	2.2 %	1.3 %	1.5 %	5.5 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	5,680.205 ppb	105.465 %	105.629 %	22.595 ppb	108.718 ppb	98.888 %
Concentration per Run 1	5,733.442 ppb	104.156 %	105.696 %	22.289 ppb	107.816 ppb	97.791 %
Concentration per Run 2	5,657.422 ppb	106.960 %	105.036 %	22.695 ppb	109.511 ppb	97.876 %
Concentration per Run 3	5,649.750 ppb	105.279 %	106.155 %	22.800 ppb	108.828 ppb	100.997 %
Concentration RSD	0.8 %	1.3 %	0.5 %	1.2 %	0.8 %	1.8 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 61 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1808318-5D10 A2-6020T Rack 1
 Analysis started at: 8/1/2023 4:37:26 PM Vial 52

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.381 %	105.792 %	50.005 ppb	10,858.645 ppb	5,069.568 ppb	858.475 ppb	7,059.336 ppb	5,682.718 ppb	120.682 %
Concentration per Run 1	111.955 %	113.458 %	50.123 ppb	10,551.736 ppb	4,926.115 ppb	868.530 ppb	7,184.473 ppb	5,701.379 ppb	123.879 %
Concentration per Run 2	108.468 %	102.215 %	51.485 ppb	10,997.738 ppb	5,134.638 ppb	844.937 ppb	6,850.090 ppb	5,474.038 ppb	118.960 %
Concentration per Run 3	107.719 %	101.704 %	48.409 ppb	11,026.461 ppb	5,147.952 ppb	861.959 ppb	7,143.446 ppb	5,872.738 ppb	119.208 %
Concentration RSD	2.1 %	6.3 %	3.1 %	2.5 %	2.5 %	1.4 %	2.6 %	3.5 %	2.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.064 ppb	50.084 ppb	54.491 ppb	5,173.793 ppb	49.553 ppb	50.922 ppb	68.018 ppb	2,518.548 ppb	104.638 %
Concentration per Run 1	47.993 ppb	48.714 ppb	54.477 ppb	5,141.842 ppb	48.272 ppb	49.472 ppb	73.913 ppb	2,545.429 ppb	104.960 %
Concentration per Run 2	49.146 ppb	50.322 ppb	54.410 ppb	5,325.295 ppb	51.030 ppb	52.521 ppb	67.331 ppb	2,525.725 ppb	102.481 %
Concentration per Run 3	50.054 ppb	51.215 ppb	54.587 ppb	5,054.242 ppb	49.359 ppb	50.774 ppb	62.810 ppb	2,484.491 ppb	106.473 %
Concentration RSD	2.1 %	2.5 %	0.2 %	2.7 %	2.8 %	3.0 %	8.2 %	1.2 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	51.227 ppb	51.350 ppb	91.510 ppb	50.933 ppb	99.187 %	2.301 ppb	48.984 ppb	103.335 %	49.893 ppb
Concentration per Run 1	52.603 ppb	52.136 ppb	95.779 ppb	50.089 ppb	100.766 %	2.291 ppb	48.563 ppb	106.596 %	49.791 ppb
Concentration per Run 2	49.487 ppb	50.091 ppb	90.473 ppb	51.301 ppb	98.969 %	2.297 ppb	49.455 ppb	102.151 %	51.098 ppb
Concentration per Run 3	51.592 ppb	51.822 ppb	88.276 ppb	51.408 ppb	97.825 %	2.316 ppb	48.935 ppb	101.257 %	48.789 ppb
Concentration RSD	3.1 %	2.1 %	4.2 %	1.4 %	1.5 %	0.6 %	0.9 %	2.8 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3,419.008 ppb	102.646 %	102.612 %	49.700 ppb	50.195 ppb	94.458 %
Concentration per Run 1	3,486.574 ppb	101.481 %	102.932 %	49.344 ppb	50.439 ppb	91.316 %
Concentration per Run 2	3,445.241 ppb	104.192 %	103.384 %	49.080 ppb	50.054 ppb	96.296 %
Concentration per Run 3	3,325.208 ppb	102.265 %	101.518 %	50.675 ppb	50.092 ppb	95.761 %
Concentration RSD	2.5 %	1.4 %	0.9 %	1.7 %	0.4 %	2.9 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 62 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1808318-4D2 A2-6020T Rack 1
 Analysis started at: 8/1/2023 4:41:54 PM Vial 51

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	113.486 %	113.118 %	0.047 ppb	25,557.474 ppb	504.186 ppb	3,514.223 ppb	9,506.649 ppb	3,814.400 ppb	125.538 %
Concentration per Run 1	118.527 %	110.903 %	0.044 ppb	25,906.624 ppb	508.102 ppb	3,649.469 ppb	9,766.880 ppb	3,899.662 ppb	131.197 %
Concentration per Run 2	111.621 %	110.903 %	0.054 ppb	26,031.707 ppb	511.996 ppb	3,486.581 ppb	9,321.675 ppb	3,815.829 ppb	121.092 %
Concentration per Run 3	110.309 %	117.547 %	0.042 ppb	24,734.090 ppb	492.461 ppb	3,406.618 ppb	9,431.393 ppb	3,727.710 ppb	124.325 %
Concentration RSD	3.9 %	3.4 %	12.9 %	2.8 %	2.1 %	3.5 %	2.4 %	2.3 %	4.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.417 ppb	4.459 ppb	9.684 ppb	424.236 ppb	0.142 ppb	1.457 ppb	50.925 ppb	10,353.868 ppb	117.020 %
Concentration per Run 1	2.462 ppb	4.361 ppb	9.710 ppb	421.060 ppb	0.151 ppb	1.480 ppb	49.145 ppb	10,197.021 ppb	117.581 %
Concentration per Run 2	2.533 ppb	4.601 ppb	9.542 ppb	441.464 ppb	0.143 ppb	1.505 ppb	53.515 ppb	10,447.568 ppb	115.009 %
Concentration per Run 3	2.256 ppb	4.416 ppb	9.800 ppb	410.183 ppb	0.132 ppb	1.384 ppb	50.115 ppb	10,417.014 ppb	118.470 %
Concentration RSD	5.9 %	2.8 %	1.3 %	3.7 %	6.5 %	4.4 %	4.5 %	1.3 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.544 ppb	0.334 ppb	187.600 ppb	2.182 ppb	106.360 %	0.079 ppb	0.088 ppb	115.646 %	1.190 ppb
Concentration per Run 1	1.520 ppb	0.383 ppb	191.170 ppb	2.111 ppb	103.988 %	0.080 ppb	0.090 ppb	116.519 %	1.183 ppb
Concentration per Run 2	1.606 ppb	0.335 ppb	188.126 ppb	2.182 ppb	105.463 %	0.074 ppb	0.086 ppb	114.073 %	1.224 ppb
Concentration per Run 3	1.506 ppb	0.283 ppb	183.504 ppb	2.254 ppb	109.629 %	0.084 ppb	0.087 ppb	116.346 %	1.163 ppb
Concentration RSD	3.5 %	15.0 %	2.1 %	3.3 %	2.8 %	6.3 %	2.6 %	1.2 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	15,347.918 ppb	110.684 %	111.847 %	0.248 ppb	5.339 ppb	101.381 %
Concentration per Run 1	15,419.777 ppb	105.760 %	107.129 %	0.260 ppb	5.358 ppb	95.422 %
Concentration per Run 2	15,523.127 ppb	110.927 %	111.861 %	0.268 ppb	5.324 ppb	103.066 %
Concentration per Run 3	15,100.850 ppb	115.363 %	116.553 %	0.217 ppb	5.337 ppb	105.655 %
Concentration RSD	1.4 %	4.3 %	4.2 %	11.2 %	0.3 %	5.2 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 63 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343121-01D2 A2-6020T Rack: 1
 Analysis started at: 8/1/2023 4:46:23 PM Vial: 49

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	118.670 %	114.821 %	0.037 ppb	31,070.664 ppb	586.440 ppb	4,205.886 ppb	11,001.501 ppb	4,099.990 ppb	132.945 %
Concentration per Run 1	122.765 %	101.704 %	0.041 ppb	34,333.303 ppb	641.975 ppb	4,652.185 ppb	11,699.072 ppb	4,311.345 ppb	136.306 %
Concentration per Run 2	119.869 %	122.147 %	0.031 ppb	28,662.416 ppb	539.740 ppb	3,954.294 ppb	10,834.335 ppb	4,054.230 ppb	136.853 %
Concentration per Run 3	113.376 %	120.613 %	0.040 ppb	30,216.272 ppb	577.605 ppb	4,011.178 ppb	10,471.097 ppb	3,934.397 ppb	125.676 %
Concentration RSD	4.1 %	9.9 %	14.8 %	9.4 %	8.8 %	9.2 %	5.7 %	4.7 %	4.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.509 ppb	4.883 ppb	11.216 ppb	421.779 ppb	0.183 ppb	2.287 ppb	71.157 ppb	11,943.235 ppb	124.640 %
Concentration per Run 1	2.670 ppb	5.149 ppb	11.970 ppb	444.399 ppb	0.192 ppb	2.451 ppb	72.106 ppb	12,372.618 ppb	121.206 %
Concentration per Run 2	2.461 ppb	4.627 ppb	10.694 ppb	400.223 ppb	0.170 ppb	2.189 ppb	68.360 ppb	11,664.081 ppb	125.875 %
Concentration per Run 3	2.396 ppb	4.874 ppb	10.983 ppb	420.716 ppb	0.187 ppb	2.221 ppb	73.005 ppb	11,793.007 ppb	126.841 %
Concentration RSD	5.7 %	5.3 %	6.0 %	5.2 %	6.4 %	6.3 %	3.5 %	3.2 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.690 ppb	0.310 ppb	219.056 ppb	2.842 ppb	111.706 %	0.097 ppb	0.086 ppb	124.738 %	1.174 ppb
Concentration per Run 1	1.762 ppb	0.270 ppb	225.990 ppb	2.687 ppb	106.533 %	0.099 ppb	0.082 ppb	122.673 %	1.175 ppb
Concentration per Run 2	1.648 ppb	0.379 ppb	215.899 ppb	2.735 ppb	114.019 %	0.102 ppb	0.091 ppb	125.457 %	1.152 ppb
Concentration per Run 3	1.661 ppb	0.281 ppb	215.280 ppb	3.104 ppb	114.566 %	0.090 ppb	0.086 ppb	126.085 %	1.194 ppb
Concentration RSD	3.7 %	19.4 %	2.7 %	8.0 %	4.0 %	6.4 %	5.1 %	1.5 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	17,548.853 ppb	119.312 %	120.541 %	0.108 ppb	5.292 ppb	108.610 %
Concentration per Run 1	17,930.202 ppb	112.853 %	113.516 %	0.098 ppb	5.291 ppb	101.315 %
Concentration per Run 2	17,320.147 ppb	120.568 %	122.282 %	0.118 ppb	5.317 ppb	108.802 %
Concentration per Run 3	17,396.210 ppb	124.516 %	125.826 %	0.108 ppb	5.266 ppb	115.712 %
Concentration RSD	1.9 %	5.0 %	5.3 %	9.3 %	0.5 %	6.6 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 64 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1808318-6D10 A2-6020T Rack 1
 Analysis started at: 8/1/2023 4:50:51 PM Vial 53

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	123.849 %	117.717 %	-0.001 ppb	6,062.418 ppb	119.207 ppb	845.692 ppb	2,224.422 ppb	898.539 ppb	134.341 %
Concentration per Run 1	127.179 %	125.213 %	0.004 ppb	5,758.231 ppb	108.684 ppb	798.094 ppb	2,208.679 ppb	858.985 ppb	139.471 %
Concentration per Run 2	122.242 %	118.058 %	-0.002 ppb	6,412.730 ppb	124.045 ppb	875.652 ppb	2,209.131 ppb	897.455 ppb	129.897 %
Concentration per Run 3	122.124 %	109.881 %	-0.006 ppb	6,016.293 ppb	124.890 ppb	863.329 ppb	2,255.455 ppb	939.177 ppb	133.657 %
Concentration RSD	2.3 %	6.5 %	429.4 %	5.4 %	7.7 %	4.9 %	1.2 %	4.5 %	3.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.491 ppb	0.964 ppb	2.147 ppb	82.914 ppb	0.027 ppb	0.453 ppb	14.559 ppb	2,510.168 ppb	126.769 %
Concentration per Run 1	0.463 ppb	0.926 ppb	2.154 ppb	81.920 ppb	0.014 ppb	0.385 ppb	14.586 ppb	2,487.860 ppb	122.263 %
Concentration per Run 2	0.578 ppb	1.035 ppb	2.234 ppb	84.428 ppb	0.043 ppb	0.518 ppb	14.737 ppb	2,551.333 ppb	128.431 %
Concentration per Run 3	0.434 ppb	0.931 ppb	2.054 ppb	82.395 ppb	0.023 ppb	0.456 ppb	14.353 ppb	2,491.310 ppb	129.613 %
Concentration RSD	15.5 %	6.4 %	4.2 %	1.6 %	55.4 %	14.7 %	1.3 %	1.4 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.364 ppb	0.082 ppb	40.776 ppb	0.551 ppb	120.255 %	0.021 ppb	0.016 ppb	126.810 %	0.244 ppb
Concentration per Run 1	0.379 ppb	0.103 ppb	41.455 ppb	0.530 ppb	117.166 %	0.020 ppb	0.012 ppb	122.631 %	0.250 ppb
Concentration per Run 2	0.376 ppb	0.074 ppb	41.481 ppb	0.511 ppb	120.475 %	0.019 ppb	0.015 ppb	130.111 %	0.243 ppb
Concentration per Run 3	0.339 ppb	0.068 ppb	39.390 ppb	0.611 ppb	123.126 %	0.023 ppb	0.020 ppb	127.688 %	0.240 ppb
Concentration RSD	6.1 %	22.8 %	2.9 %	9.6 %	2.5 %	9.4 %	24.2 %	3.0 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3,343.668 ppb	122.299 %	121.802 %	0.020 ppb	1.039 ppb	115.773 %
Concentration per Run 1	3,392.421 ppb	116.541 %	116.229 %	0.012 ppb	1.032 ppb	108.326 %
Concentration per Run 2	3,350.684 ppb	123.942 %	123.239 %	0.022 ppb	1.036 ppb	118.097 %
Concentration per Run 3	3,287.899 ppb	126.415 %	125.938 %	0.025 ppb	1.049 ppb	120.896 %
Concentration RSD	1.6 %	4.2 %	4.1 %	34.9 %	0.8 %	5.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 65 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/1/2023 4:55:20 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	112.429 %	109.710 %	58.359 ppb	5,935.904 ppb	6,196.922 ppb	63.145 ppb	5,846.682 ppb	5,635.886 ppb	126.104 %
Concentration per Run 1	115.774 %	106.303 %	57.801 ppb	5,841.327 ppb	6,182.173 ppb	61.856 ppb	5,942.233 ppb	5,759.546 ppb	131.784 %
Concentration per Run 2	111.223 %	120.613 %	60.004 ppb	6,028.041 ppb	5,992.378 ppb	61.684 ppb	5,705.162 ppb	5,508.411 ppb	120.926 %
Concentration per Run 3	110.288 %	102.215 %	57.271 ppb	5,938.343 ppb	6,416.216 ppb	65.896 ppb	5,892.650 ppb	5,639.700 ppb	125.603 %
Recovery Percentage 1			97.264 %	98.932 %	103.282 %	105.242 %	97.445 %	93.931 %	
Concentration RSD	2.6 %	8.8 %	2.5 %	1.6 %	3.4 %	3.8 %	2.1 %	2.2 %	4.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.540 ppb	57.325 ppb	60.065 ppb	5,925.383 ppb	59.048 ppb	58.912 ppb	58.935 ppb	60.365 ppb	119.044 %
Concentration per Run 1	57.834 ppb	56.809 ppb	59.672 ppb	5,898.836 ppb	60.999 ppb	60.019 ppb	61.730 ppb	62.430 ppb	111.936 %
Concentration per Run 2	57.423 ppb	57.267 ppb	62.138 ppb	5,999.076 ppb	57.472 ppb	58.694 ppb	57.021 ppb	59.011 ppb	124.490 %
Concentration per Run 3	57.364 ppb	57.900 ppb	58.384 ppb	5,878.236 ppb	58.673 ppb	58.023 ppb	58.053 ppb	59.654 ppb	120.708 %
Recovery Percentage 1	95.900 %	95.542 %	100.108 %	98.756 %	98.413 %	98.186 %	98.224 %	100.608 %	
Concentration RSD	0.4 %	1.0 %	3.2 %	1.1 %	3.0 %	1.7 %	4.2 %	3.0 %	5.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.577 ppb	59.241 ppb	58.794 ppb	57.250 ppb	114.683 %	56.371 ppb	57.429 ppb	117.811 %	56.688 ppb
Concentration per Run 1	60.435 ppb	59.081 ppb	57.761 ppb	58.769 ppb	112.310 %	57.105 ppb	57.978 ppb	110.792 %	56.496 ppb
Concentration per Run 2	57.795 ppb	60.936 ppb	61.595 ppb	55.585 ppb	116.757 %	55.462 ppb	56.562 ppb	124.808 %	57.213 ppb
Concentration per Run 3	57.502 ppb	57.705 ppb	57.025 ppb	57.394 ppb	114.981 %	56.547 ppb	57.748 ppb	117.835 %	56.355 ppb
Recovery Percentage 1	97.629 %	98.735 %	97.990 %	95.416 %		93.952 %	95.716 %		94.480 %
Concentration RSD	2.8 %	2.7 %	4.2 %	2.8 %	2.0 %	1.5 %	1.3 %	5.9 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	57.157 ppb	118.333 %	119.424 %	55.963 ppb	57.407 ppb	112.264 %
Concentration per Run 1	57.297 ppb	112.042 %	110.997 %	55.541 ppb	57.604 ppb	105.008 %
Concentration per Run 2	57.299 ppb	122.825 %	124.899 %	55.220 ppb	56.928 ppb	116.670 %
Concentration per Run 3	56.876 ppb	120.132 %	122.376 %	57.126 ppb	57.689 ppb	115.115 %
Recovery Percentage 1	95.262 %			93.271 %	95.678 %	
Concentration RSD	0.4 %	4.7 %	6.2 %	1.8 %	0.7 %	5.6 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 66 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/1/2023 4:59:52 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	112.964 %	112.607 %	-0.015 ppb	-2.978 ppb	0.080 ppb	0.227 ppb	-5.832 ppb	-4.944 ppb	119.317 %
Concentration per Run 1	116.794 %	105.792 %	-0.020 ppb	-2.851 ppb	-0.017 ppb	0.246 ppb	-4.973 ppb	-5.833 ppb	124.544 %
Concentration per Run 2	112.849 %	121.124 %	-0.011 ppb	-2.636 ppb	-0.223 ppb	0.199 ppb	-6.849 ppb	-4.680 ppb	116.961 %
Concentration per Run 3	109.250 %	110.903 %	-0.015 ppb	-3.448 ppb	0.480 ppb	0.237 ppb	-5.673 ppb	-4.321 ppb	116.446 %
Recovery Percentage 1			-3.027 %	-2.978 %	0.114 %	2.275 %	-5.832 %	-4.944 %	
Concentration RSD	3.3 %	6.9 %	30.5 %	14.1 %	451.0 %	10.9 %	16.3 %	16.0 %	3.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.022 ppb	-0.008 ppb	-0.049 ppb	3.863 ppb	-0.021 ppb	-0.045 ppb	0.012 ppb	-0.867 ppb	113.259 %
Concentration per Run 1	-0.001 ppb	-0.012 ppb	-0.049 ppb	4.527 ppb	-0.031 ppb	-0.053 ppb	-0.001 ppb	-0.913 ppb	110.011 %
Concentration per Run 2	0.038 ppb	-0.008 ppb	-0.039 ppb	4.010 ppb	-0.017 ppb	-0.048 ppb	0.018 ppb	-0.887 ppb	117.503 %
Concentration per Run 3	0.030 ppb	-0.003 ppb	-0.059 ppb	3.052 ppb	-0.016 ppb	-0.033 ppb	0.020 ppb	-0.800 ppb	112.262 %
Recovery Percentage 1	0.442 %	-0.784 %	-4.914 %	7.726 %	-4.273 %	-2.225 %	1.215 %	-17.333 %	
Concentration RSD	93.9 %	54.1 %	20.5 %	19.4 %	37.7 %	23.3 %	94.3 %	6.8 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.009 ppb	0.024 ppb	-0.003 ppb	0.121 ppb	112.438 %	0.009 ppb	0.000 ppb	114.927 %	0.029 ppb
Concentration per Run 1	0.013 ppb	0.026 ppb	-0.004 ppb	0.135 ppb	107.505 %	0.010 ppb	0.000 ppb	105.747 %	0.034 ppb
Concentration per Run 2	0.008 ppb	0.032 ppb	-0.002 ppb	0.130 ppb	113.212 %	0.009 ppb	0.001 ppb	123.898 %	0.025 ppb
Concentration per Run 3	0.007 ppb	0.013 ppb	-0.002 ppb	0.098 ppb	116.597 %	0.008 ppb	0.001 ppb	115.135 %	0.028 ppb
Recovery Percentage 1	1.897 %	0.472 %	-0.027 %	6.049 %		2.291 %	0.177 %		0.719 %
Concentration RSD	37.4 %	42.2 %	43.0 %	16.3 %	4.1 %	9.6 %	134.3 %	7.9 %	15.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.008 ppb	114.808 %	115.850 %	0.199 ppb	0.003 ppb	114.140 %
Concentration per Run 1	0.011 ppb	107.808 %	106.092 %	0.205 ppb	0.002 ppb	104.842 %
Concentration per Run 2	0.025 ppb	117.899 %	119.712 %	0.220 ppb	0.002 ppb	119.055 %
Concentration per Run 3	-0.012 ppb	118.717 %	121.744 %	0.172 ppb	0.004 ppb	118.522 %
Recovery Percentage 1	1.562 %			19.898 %	0.256 %	
Concentration RSD	237.7 %	5.3 %	7.3 %	12.2 %	33.9 %	7.1 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 67 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343121-02D2 A2-6020T Rack: 1
 Analysis started at: 8/1/2023 5:06:09 PM Vial: 54

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	122.375 %	112.947 %	0.042 ppb	33,085.171 ppb	596.821 ppb	4,706.142 ppb	11,481.861 ppb	4,099.450 ppb	136.565 %
Concentration per Run 1	125.090 %	102.726 %	0.049 ppb	33,957.296 ppb	619.820 ppb	4,791.909 ppb	11,528.693 ppb	3,826.778 ppb	137.863 %
Concentration per Run 2	123.120 %	111.925 %	0.036 ppb	32,972.673 ppb	587.301 ppb	4,797.715 ppb	11,811.511 ppb	4,403.465 ppb	140.857 %
Concentration per Run 3	118.913 %	124.191 %	0.040 ppb	32,325.545 ppb	583.342 ppb	4,528.801 ppb	11,105.377 ppb	4,068.108 ppb	130.975 %
Concentration RSD	2.6 %	9.5 %	16.0 %	2.5 %	3.4 %	3.3 %	3.1 %	7.1 %	3.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.029 ppb	5.118 ppb	9.265 ppb	332.410 ppb	0.170 ppb	2.174 ppb	29.215 ppb	12,638.953 ppb	123.420 %
Concentration per Run 1	1.965 ppb	5.231 ppb	9.704 ppb	345.774 ppb	0.186 ppb	2.369 ppb	30.072 ppb	12,936.670 ppb	111.895 %
Concentration per Run 2	2.006 ppb	5.110 ppb	8.698 ppb	322.242 ppb	0.161 ppb	2.091 ppb	28.235 ppb	12,542.328 ppb	129.308 %
Concentration per Run 3	2.117 ppb	5.012 ppb	9.394 ppb	329.215 ppb	0.162 ppb	2.061 ppb	29.337 ppb	12,437.862 ppb	129.056 %
Concentration RSD	3.9 %	2.1 %	5.6 %	3.6 %	8.5 %	7.8 %	3.2 %	2.1 %	8.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.722 ppb	0.273 ppb	234.085 ppb	1.227 ppb	114.563 %	0.082 ppb	0.091 ppb	125.427 %	1.060 ppb
Concentration per Run 1	1.716 ppb	0.398 ppb	241.648 ppb	1.257 ppb	107.034 %	0.084 ppb	0.087 ppb	119.911 %	1.063 ppb
Concentration per Run 2	1.672 ppb	0.213 ppb	227.482 ppb	1.168 ppb	118.645 %	0.082 ppb	0.097 ppb	124.237 %	1.048 ppb
Concentration per Run 3	1.779 ppb	0.209 ppb	233.124 ppb	1.257 ppb	118.011 %	0.079 ppb	0.090 ppb	132.134 %	1.069 ppb
Concentration RSD	3.1 %	39.4 %	3.0 %	4.2 %	5.7 %	3.0 %	5.9 %	4.9 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	19,109.828 ppb	120.596 %	122.132 %	0.115 ppb	11.765 ppb	110.548 %
Concentration per Run 1	19,394.784 ppb	111.817 %	112.126 %	0.111 ppb	11.750 ppb	102.195 %
Concentration per Run 2	19,144.201 ppb	122.205 %	125.191 %	0.120 ppb	11.813 ppb	111.504 %
Concentration per Run 3	18,790.498 ppb	127.764 %	129.078 %	0.114 ppb	11.732 ppb	117.945 %
Concentration RSD	1.6 %	6.7 %	7.3 %	3.9 %	0.4 %	7.2 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 68 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343125-01D2 A2-6020T Rack: 1
 Analysis started at: 8/1/2023 5:10:38 PM Vial: 55

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	121.965 %	117.206 %	0.038 ppb	26,959.460 ppb	658.404 ppb	3,514.229 ppb	9,358.678 ppb	4,217.224 ppb	137.438 %
Concentration per Run 1	125.765 %	106.303 %	0.027 ppb	28,683.785 ppb	689.569 ppb	3,669.976 ppb	9,725.790 ppb	4,397.943 ppb	141.480 %
Concentration per Run 2	121.345 %	111.925 %	0.044 ppb	27,321.389 ppb	677.646 ppb	3,638.804 ppb	9,543.529 ppb	4,209.903 ppb	137.650 %
Concentration per Run 3	118.783 %	133.390 %	0.044 ppb	24,873.206 ppb	607.998 ppb	3,233.908 ppb	8,806.713 ppb	4,043.827 ppb	133.184 %
Concentration RSD	2.9 %	12.2 %	26.4 %	7.2 %	6.7 %	6.9 %	5.2 %	4.2 %	3.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.053 ppb	5.810 ppb	15.461 ppb	847.775 ppb	0.338 ppb	1.519 ppb	109.802 ppb	10,266.964 ppb	126.695 %
Concentration per Run 1	1.140 ppb	6.040 ppb	16.010 ppb	878.105 ppb	0.352 ppb	1.663 ppb	108.549 ppb	10,436.638 ppb	119.999 %
Concentration per Run 2	1.072 ppb	5.780 ppb	14.963 ppb	837.997 ppb	0.337 ppb	1.450 ppb	106.272 ppb	10,363.936 ppb	130.547 %
Concentration per Run 3	0.948 ppb	5.610 ppb	15.411 ppb	827.223 ppb	0.325 ppb	1.443 ppb	114.584 ppb	10,000.319 ppb	129.538 %
Concentration RSD	9.3 %	3.7 %	3.4 %	3.2 %	4.0 %	8.2 %	3.9 %	2.3 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.953 ppb	0.386 ppb	181.997 ppb	4.018 ppb	113.908 %	0.084 ppb	0.143 ppb	122.932 %	1.647 ppb
Concentration per Run 1	2.000 ppb	0.409 ppb	180.134 ppb	4.004 ppb	104.732 %	0.085 ppb	0.151 ppb	113.670 %	1.672 ppb
Concentration per Run 2	1.890 ppb	0.341 ppb	180.769 ppb	4.020 ppb	118.599 %	0.088 ppb	0.136 ppb	125.092 %	1.677 ppb
Concentration per Run 3	1.970 ppb	0.408 ppb	185.088 ppb	4.028 ppb	118.394 %	0.079 ppb	0.142 ppb	130.035 %	1.592 ppb
Concentration RSD	2.9 %	10.1 %	1.5 %	0.3 %	7.0 %	5.6 %	5.3 %	6.8 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	14,894.472 ppb	119.557 %	119.123 %	0.083 ppb	236.114 ppb	117.907 %
Concentration per Run 1	14,931.963 ppb	110.066 %	108.348 %	0.073 ppb	238.392 ppb	108.310 %
Concentration per Run 2	14,971.514 ppb	122.734 %	122.606 %	0.087 ppb	233.696 ppb	119.295 %
Concentration per Run 3	14,779.938 ppb	125.871 %	126.415 %	0.090 ppb	236.253 ppb	126.117 %
Concentration RSD	0.7 %	7.0 %	8.0 %	10.9 %	1.0 %	7.6 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 69 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343125-02D2 A2-6020T Rack: 1
 Analysis started at: 8/1/2023 5:15:07 PM Vial: 56

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	126.980 %	120.102 %	0.038 ppb	29,590.122 ppb	568.826 ppb	4,077.647 ppb	10,310.446 ppb	3,933.442 ppb	141.978 %
Concentration per Run 1	131.821 %	119.591 %	0.029 ppb	29,866.691 ppb	570.687 ppb	3,928.361 ppb	9,917.160 ppb	3,780.666 ppb	145.028 %
Concentration per Run 2	126.253 %	123.680 %	0.038 ppb	28,114.228 ppb	550.676 ppb	4,042.851 ppb	10,357.460 ppb	3,913.723 ppb	145.017 %
Concentration per Run 3	122.866 %	117.036 %	0.045 ppb	30,789.447 ppb	585.115 ppb	4,261.728 ppb	10,656.718 ppb	4,105.937 ppb	135.889 %
Concentration RSD	3.6 %	2.8 %	20.5 %	4.6 %	3.0 %	4.2 %	3.6 %	4.2 %	3.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.448 ppb	5.812 ppb	8.988 ppb	421.016 ppb	0.146 ppb	1.484 ppb	30.381 ppb	11,588.688 ppb	122.520 %
Concentration per Run 1	0.451 ppb	5.864 ppb	9.200 ppb	428.256 ppb	0.149 ppb	1.538 ppb	31.661 ppb	11,726.517 ppb	108.549 %
Concentration per Run 2	0.418 ppb	5.746 ppb	8.443 ppb	406.967 ppb	0.155 ppb	1.417 ppb	30.193 ppb	11,480.915 ppb	129.601 %
Concentration per Run 3	0.474 ppb	5.826 ppb	9.320 ppb	427.823 ppb	0.133 ppb	1.498 ppb	29.290 ppb	11,558.634 ppb	129.410 %
Concentration RSD	6.3 %	1.0 %	5.3 %	2.9 %	7.8 %	4.2 %	3.9 %	1.1 %	9.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.746 ppb	0.316 ppb	210.511 ppb	1.208 ppb	115.376 %	0.041 ppb	0.073 ppb	126.542 %	1.075 ppb
Concentration per Run 1	1.773 ppb	0.256 ppb	213.127 ppb	1.196 ppb	108.706 %	0.042 ppb	0.074 ppb	119.217 %	1.095 ppb
Concentration per Run 2	1.750 ppb	0.296 ppb	207.549 ppb	1.220 ppb	118.931 %	0.039 ppb	0.071 ppb	126.544 %	1.079 ppb
Concentration per Run 3	1.717 ppb	0.395 ppb	210.856 ppb	1.207 ppb	118.490 %	0.042 ppb	0.074 ppb	133.866 %	1.052 ppb
Concentration RSD	1.6 %	22.6 %	1.3 %	1.0 %	5.0 %	5.4 %	2.5 %	5.8 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	16,816.932 ppb	121.254 %	120.690 %	0.073 ppb	44.689 ppb	114.472 %
Concentration per Run 1	16,826.503 ppb	113.015 %	110.251 %	0.066 ppb	44.748 ppb	105.165 %
Concentration per Run 2	16,946.086 ppb	123.877 %	123.956 %	0.075 ppb	44.304 ppb	115.720 %
Concentration per Run 3	16,678.207 ppb	126.870 %	127.864 %	0.080 ppb	45.016 ppb	122.530 %
Concentration RSD	0.8 %	6.0 %	7.7 %	9.6 %	0.8 %	7.6 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 70 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343130-01D2 A2-6020T Rack: 1
 Analysis started at: 8/1/2023 5:19:36 PM Vial: 57

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	130.049 %	115.503 %	0.046 ppb	34,447.545 ppb	751.857 ppb	4,786.492 ppb	11,490.862 ppb	4,604.550 ppb	145.505 %
Concentration per Run 1	133.393 %	100.681 %	0.044 ppb	35,680.020 ppb	778.939 ppb	4,908.157 ppb	11,717.104 ppb	4,532.892 ppb	148.331 %
Concentration per Run 2	130.393 %	117.036 %	0.043 ppb	34,067.318 ppb	740.066 ppb	4,841.225 ppb	11,548.091 ppb	4,654.050 ppb	149.245 %
Concentration per Run 3	126.361 %	128.791 %	0.052 ppb	33,595.298 ppb	736.566 ppb	4,610.094 ppb	11,207.391 ppb	4,626.710 ppb	138.938 %
Concentration RSD	2.7 %	12.2 %	10.5 %	3.2 %	3.1 %	3.3 %	2.3 %	1.4 %	3.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.804 ppb	5.588 ppb	13.586 ppb	657.508 ppb	0.269 ppb	1.225 ppb	80.919 ppb	12,867.967 ppb	129.834 %
Concentration per Run 1	0.816 ppb	5.752 ppb	13.743 ppb	678.189 ppb	0.284 ppb	1.259 ppb	84.030 ppb	13,143.092 ppb	116.579 %
Concentration per Run 2	0.806 ppb	5.390 ppb	13.419 ppb	636.578 ppb	0.249 ppb	1.134 ppb	78.879 ppb	12,810.325 ppb	137.159 %
Concentration per Run 3	0.791 ppb	5.623 ppb	13.597 ppb	657.755 ppb	0.275 ppb	1.282 ppb	79.848 ppb	12,650.483 ppb	135.764 %
Concentration RSD	1.6 %	3.3 %	1.2 %	3.2 %	6.8 %	6.5 %	3.4 %	2.0 %	8.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.036 ppb	0.445 ppb	238.361 ppb	3.325 ppb	119.322 %	0.124 ppb	0.078 ppb	129.447 %	1.309 ppb
Concentration per Run 1	2.120 ppb	0.429 ppb	245.586 ppb	3.496 ppb	112.922 %	0.125 ppb	0.077 ppb	123.246 %	1.275 ppb
Concentration per Run 2	1.948 ppb	0.462 ppb	231.423 ppb	3.173 ppb	122.433 %	0.118 ppb	0.079 ppb	130.490 %	1.336 ppb
Concentration per Run 3	2.041 ppb	0.444 ppb	238.074 ppb	3.307 ppb	122.612 %	0.129 ppb	0.079 ppb	134.605 %	1.316 ppb
Concentration RSD	4.2 %	3.7 %	3.0 %	4.9 %	4.6 %	4.3 %	1.6 %	4.4 %	2.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	19,345.877 ppb	124.370 %	124.854 %	0.077 ppb	8.268 ppb	115.124 %
Concentration per Run 1	19,410.199 ppb	115.717 %	115.315 %	0.074 ppb	8.260 ppb	106.365 %
Concentration per Run 2	19,398.823 ppb	127.820 %	126.846 %	0.084 ppb	8.287 ppb	115.954 %
Concentration per Run 3	19,228.609 ppb	129.573 %	132.400 %	0.074 ppb	8.256 ppb	123.054 %
Concentration RSD	0.5 %	6.1 %	7.0 %	7.4 %	0.2 %	7.3 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 71 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343130-02D2 A2-6020T Rack: 1
 Analysis started at: 8/1/2023 5:24:06 PM Vial: 58

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	132.549 %	121.806 %	0.046 ppb	35,899.509 ppb	707.778 ppb	5,437.087 ppb	12,455.276 ppb	4,470.881 ppb	161.409 %
Concentration per Run 1	134.393 %	110.392 %	0.042 ppb	36,997.914 ppb	712.751 ppb	5,491.921 ppb	12,337.095 ppb	4,293.680 ppb	171.453 %
Concentration per Run 2	134.089 %	118.569 %	0.058 ppb	36,719.275 ppb	724.190 ppb	5,567.527 ppb	13,093.103 ppb	4,827.879 ppb	147.635 %
Concentration per Run 3	129.164 %	136.457 %	0.039 ppb	33,981.337 ppb	686.392 ppb	5,251.814 ppb	11,935.629 ppb	4,291.083 ppb	165.139 %
Concentration RSD	2.2 %	10.9 %	21.9 %	4.6 %	2.7 %	3.0 %	4.7 %	6.9 %	7.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.581 ppb	5.264 ppb	10.730 ppb	463.841 ppb	0.173 ppb	1.092 ppb	43.684 ppb	13,688.921 ppb	134.723 %
Concentration per Run 1	0.593 ppb	5.268 ppb	10.844 ppb	465.654 ppb	0.164 ppb	1.177 ppb	55.090 ppb	14,222.591 ppb	124.375 %
Concentration per Run 2	0.577 ppb	5.449 ppb	10.823 ppb	481.841 ppb	0.177 ppb	1.087 ppb	38.620 ppb	13,632.649 ppb	136.512 %
Concentration per Run 3	0.573 ppb	5.075 ppb	10.525 ppb	444.029 ppb	0.178 ppb	1.012 ppb	37.341 ppb	13,211.524 ppb	143.281 %
Concentration RSD	1.8 %	3.6 %	1.7 %	4.1 %	4.5 %	7.6 %	22.7 %	3.7 %	7.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.144 ppb	0.384 ppb	259.128 ppb	1.471 ppb	119.801 %	0.112 ppb	0.088 ppb	129.337 %	1.095 ppb
Concentration per Run 1	2.184 ppb	0.326 ppb	267.205 ppb	1.374 ppb	110.468 %	0.114 ppb	0.083 ppb	116.018 %	1.089 ppb
Concentration per Run 2	2.178 ppb	0.398 ppb	256.918 ppb	1.503 ppb	124.799 %	0.116 ppb	0.091 ppb	133.283 %	1.079 ppb
Concentration per Run 3	2.070 ppb	0.428 ppb	253.260 ppb	1.535 ppb	124.135 %	0.107 ppb	0.090 ppb	138.710 %	1.116 ppb
Concentration RSD	3.0 %	13.8 %	2.8 %	5.8 %	6.8 %	4.1 %	4.8 %	9.2 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	20,870.389 ppb	123.958 %	123.345 %	0.073 ppb	9.575 ppb	112.061 %
Concentration per Run 1	20,877.015 ppb	110.683 %	108.143 %	0.072 ppb	9.611 ppb	98.531 %
Concentration per Run 2	20,839.171 ppb	128.862 %	128.064 %	0.075 ppb	9.706 ppb	115.286 %
Concentration per Run 3	20,894.982 ppb	132.328 %	133.827 %	0.073 ppb	9.408 ppb	122.366 %
Concentration RSD	0.1 %	9.4 %	10.9 %	2.2 %	1.6 %	10.9 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 72 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: CCV Rack: 0
 Analysis started at: 8/1/2023 5:29:28 PM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	127.198 %	118.739 %	58.642 ppb	6,235.638 ppb	6,258.372 ppb	63.238 ppb	5,796.528 ppb	5,430.834 ppb	138.503 %
Concentration per Run 1	130.582 %	119.591 %	59.266 ppb	6,258.699 ppb	6,329.450 ppb	63.549 ppb	5,695.126 ppb	5,387.979 ppb	143.353 %
Concentration per Run 2	129.468 %	122.147 %	56.864 ppb	6,045.261 ppb	5,995.198 ppb	59.825 ppb	5,729.054 ppb	5,380.300 ppb	142.406 %
Concentration per Run 3	121.544 %	114.480 %	59.794 ppb	6,402.953 ppb	6,450.467 ppb	66.339 ppb	5,965.402 ppb	5,524.224 ppb	129.749 %
Recovery Percentage 1			97.736 %	103.927 %	104.306 %	105.396 %	96.609 %	90.514 %	
Concentration RSD	3.9 %	3.3 %	2.7 %	2.9 %	3.8 %	5.2 %	2.5 %	1.5 %	5.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	55.814 ppb	59.044 ppb	60.229 ppb	6,189.098 ppb	62.514 ppb	61.764 ppb	62.406 ppb	61.949 ppb	124.184 %
Concentration per Run 1	54.916 ppb	59.274 ppb	59.876 ppb	6,343.474 ppb	64.594 ppb	63.821 ppb	65.382 ppb	64.549 ppb	118.777 %
Concentration per Run 2	54.129 ppb	56.857 ppb	57.375 ppb	6,025.800 ppb	59.443 ppb	59.055 ppb	59.624 ppb	59.218 ppb	128.653 %
Concentration per Run 3	58.398 ppb	61.001 ppb	63.437 ppb	6,198.022 ppb	63.505 ppb	62.417 ppb	62.211 ppb	62.080 ppb	125.121 %
Recovery Percentage 1	93.024 %	98.407 %	100.382 %	103.152 %	104.190 %	102.940 %	104.009 %	103.248 %	
Concentration RSD	4.1 %	3.5 %	5.1 %	2.6 %	4.3 %	4.0 %	4.6 %	4.3 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.995 ppb	59.533 ppb	58.387 ppb	57.442 ppb	121.355 %	57.467 ppb	58.106 ppb	123.240 %	57.076 ppb
Concentration per Run 1	61.587 ppb	61.436 ppb	60.021 ppb	58.515 ppb	117.238 %	59.019 ppb	59.509 ppb	116.466 %	58.284 ppb
Concentration per Run 2	59.383 ppb	57.664 ppb	56.990 ppb	55.898 ppb	123.782 %	57.378 ppb	58.105 ppb	125.049 %	56.524 ppb
Concentration per Run 3	59.016 ppb	59.500 ppb	58.149 ppb	57.913 ppb	123.044 %	56.004 ppb	56.704 ppb	128.205 %	56.422 ppb
Recovery Percentage 1	99.992 %	99.222 %	97.312 %	95.736 %		95.779 %	96.844 %		95.127 %
Concentration RSD	2.3 %	3.2 %	2.6 %	2.4 %	3.0 %	2.6 %	2.4 %	4.9 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	57.923 ppb	124.935 %	124.461 %	56.137 ppb	57.988 ppb	119.373 %
Concentration per Run 1	59.379 ppb	116.186 %	113.694 %	56.371 ppb	58.719 ppb	110.111 %
Concentration per Run 2	57.506 ppb	128.178 %	128.226 %	56.284 ppb	57.851 ppb	121.465 %
Concentration per Run 3	56.886 ppb	130.440 %	131.461 %	55.754 ppb	57.393 ppb	126.542 %
Recovery Percentage 1	96.539 %			93.561 %	96.646 %	
Concentration RSD	2.2 %	6.1 %	7.6 %	0.6 %	1.2 %	7.0 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 73 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/1/2023 5:34:00 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	130.436 %	116.014 %	-0.011 ppb	-2.887 ppb	-0.048 ppb	0.330 ppb	-5.865 ppb	-5.648 ppb	137.727 %
Concentration per Run 1	132.284 %	113.969 %	-0.006 ppb	-3.085 ppb	0.002 ppb	0.219 ppb	-7.435 ppb	-6.285 ppb	142.361 %
Concentration per Run 2	131.766 %	113.458 %	-0.011 ppb	-2.420 ppb	0.083 ppb	0.415 ppb	-4.035 ppb	-5.395 ppb	136.364 %
Concentration per Run 3	127.258 %	120.613 %	-0.016 ppb	-3.157 ppb	-0.229 ppb	0.357 ppb	-6.123 ppb	-5.264 ppb	134.455 %
Recovery Percentage 1			-2.208 %	-2.887 %	-0.069 %	3.302 %	-5.865 %	-5.648 %	
Concentration RSD	2.1 %	3.4 %	42.9 %	14.1 %	337.4 %	30.5 %	29.2 %	9.8 %	3.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.030 ppb	-0.013 ppb	-0.045 ppb	4.560 ppb	-0.025 ppb	-0.038 ppb	0.023 ppb	-0.788 ppb	123.363 %
Concentration per Run 1	0.002 ppb	-0.015 ppb	-0.049 ppb	4.289 ppb	-0.023 ppb	-0.031 ppb	0.021 ppb	-0.822 ppb	124.322 %
Concentration per Run 2	0.049 ppb	-0.010 ppb	-0.049 ppb	5.130 ppb	-0.030 ppb	-0.053 ppb	0.032 ppb	-0.738 ppb	119.679 %
Concentration per Run 3	0.038 ppb	-0.013 ppb	-0.038 ppb	4.262 ppb	-0.023 ppb	-0.028 ppb	0.016 ppb	-0.803 ppb	126.090 %
Recovery Percentage 1	0.599 %	-1.258 %	-4.518 %	9.120 %	-5.043 %	-1.882 %	2.282 %	-15.751 %	
Concentration RSD	81.6 %	19.4 %	14.7 %	10.8 %	15.1 %	36.0 %	35.6 %	5.6 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.002 ppb	0.018 ppb	-0.002 ppb	0.107 ppb	122.823 %	0.008 ppb	0.001 ppb	121.972 %	0.015 ppb
Concentration per Run 1	-0.010 ppb	0.006 ppb	-0.002 ppb	0.113 ppb	119.372 %	0.009 ppb	0.001 ppb	114.965 %	0.014 ppb
Concentration per Run 2	0.005 ppb	0.038 ppb	-0.001 ppb	0.102 ppb	122.449 %	0.009 ppb	0.003 ppb	126.180 %	0.014 ppb
Concentration per Run 3	-0.002 ppb	0.009 ppb	-0.002 ppb	0.106 ppb	126.648 %	0.007 ppb	0.001 ppb	124.771 %	0.016 ppb
Recovery Percentage 1	-0.432 %	0.355 %	-0.019 %	5.340 %		2.091 %	0.708 %		0.370 %
Concentration RSD	341.7 %	101.0 %	26.5 %	5.4 %	3.0 %	15.1 %	75.5 %	5.0 %	4.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.023 ppb	123.173 %	122.034 %	0.196 ppb	0.001 ppb	123.722 %
Concentration per Run 1	0.048 ppb	115.909 %	114.084 %	0.195 ppb	0.002 ppb	114.930 %
Concentration per Run 2	0.015 ppb	123.503 %	122.697 %	0.220 ppb	0.001 ppb	125.798 %
Concentration per Run 3	0.006 ppb	130.107 %	129.322 %	0.173 ppb	0.001 ppb	130.437 %
Recovery Percentage 1	4.603 %			19.611 %	0.128 %	
Concentration RSD	97.3 %	5.8 %	6.3 %	12.1 %	50.8 %	6.4 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 74 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2340535-06 6020TL Rack 1
 Analysis started at: 8/1/2023 5:48:23 PM Vial 59

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	125.886 %	133.050 %	-0.006 ppb	23,821.824 ppb	12,058.532 ppb	87.927 ppb	7,022.674 ppb	107,173.326 ppb	159.288 %
Concentration per Run 1	129.567 %	138.501 %	-0.010 ppb	23,472.414 ppb	11,940.294 ppb	86.777 ppb	6,948.147 ppb	106,617.407 ppb	162.918 %
Concentration per Run 2	125.008 %	133.390 %	-0.007 ppb	23,417.947 ppb	11,695.369 ppb	89.652 ppb	6,993.974 ppb	105,630.684 ppb	161.527 %
Concentration per Run 3	123.081 %	127.257 %	-0.002 ppb	24,575.112 ppb	12,539.933 ppb	87.353 ppb	7,125.903 ppb	109,271.886 ppb	153.418 %
Concentration RSD	2.6 %	4.2 %	65.1 %	2.7 %	3.6 %	1.7 %	1.3 %	1.8 %	3.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.310 ppb	0.421 ppb	33.185 ppb	181.814 ppb	0.130 ppb	2.738 ppb	2.625 ppb	702.992 ppb	130.625 %
Concentration per Run 1	1.266 ppb	0.384 ppb	33.639 ppb	171.704 ppb	0.123 ppb	2.664 ppb	2.480 ppb	681.752 ppb	131.918 %
Concentration per Run 2	1.334 ppb	0.421 ppb	32.646 ppb	183.974 ppb	0.123 ppb	2.652 ppb	2.709 ppb	715.282 ppb	130.418 %
Concentration per Run 3	1.331 ppb	0.459 ppb	33.270 ppb	189.762 ppb	0.145 ppb	2.898 ppb	2.686 ppb	711.941 ppb	129.538 %
Concentration RSD	2.9 %	9.0 %	1.5 %	5.1 %	9.8 %	5.1 %	4.8 %	2.6 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.259 ppb	0.667 ppb	421.141 ppb	0.734 ppb	123.427 %	0.005 ppb	0.071 ppb	132.918 %	1.121 ppb
Concentration per Run 1	0.232 ppb	0.806 ppb	431.133 ppb	0.709 ppb	120.682 %	0.006 ppb	0.072 ppb	131.620 %	1.129 ppb
Concentration per Run 2	0.256 ppb	0.656 ppb	412.833 ppb	0.751 ppb	126.184 %	0.006 ppb	0.077 ppb	131.274 %	1.117 ppb
Concentration per Run 3	0.290 ppb	0.539 ppb	419.456 ppb	0.743 ppb	123.415 %	0.003 ppb	0.065 ppb	135.860 %	1.119 ppb
Concentration RSD	11.2 %	20.1 %	2.2 %	3.0 %	2.2 %	43.0 %	8.4 %	1.9 %	0.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	86.259 ppb	135.082 %	137.900 %	0.011 ppb	0.192 ppb	120.777 %
Concentration per Run 1	87.300 ppb	130.792 %	133.294 %	0.011 ppb	0.197 ppb	114.066 %
Concentration per Run 2	87.013 ppb	136.464 %	139.001 %	0.013 ppb	0.191 ppb	122.217 %
Concentration per Run 3	84.464 ppb	137.988 %	141.406 %	0.010 ppb	0.189 ppb	126.047 %
Concentration RSD	1.8 %	2.8 %	3.0 %	12.8 %	2.1 %	5.1 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 75 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2340535-07 6020TL Rack 1
 Analysis started at: 8/1/2023 5:52:53 PM Vial 60

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	114.763 %	127.257 %	-0.014 ppb	113,904.606 ppb	17,783.667 ppb	25.167 ppb	7,669.101 ppb	62,863.338 ppb	160.581 %
Concentration per Run 1	118.715 %	116.014 %	-0.011 ppb	121,996.739 ppb	18,955.134 ppb	28.489 ppb	8,008.631 ppb	65,881.024 ppb	161.441 %
Concentration per Run 2	113.656 %	120.102 %	-0.018 ppb	117,227.376 ppb	18,331.336 ppb	25.457 ppb	8,008.242 ppb	64,708.712 ppb	164.349 %
Concentration per Run 3	111.919 %	145.656 %	-0.014 ppb	102,489.704 ppb	16,064.531 ppb	21.556 ppb	6,990.432 ppb	58,000.279 ppb	155.952 %
Concentration RSD	3.1 %	12.6 %	23.3 %	8.9 %	8.6 %	13.8 %	7.7 %	6.8 %	2.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.344 ppb	0.300 ppb	1,635.203 ppb	8,713.428 ppb	0.285 ppb	1.498 ppb	0.997 ppb	0.597 ppb	119.242 %
Concentration per Run 1	0.329 ppb	0.301 ppb	1,745.907 ppb	9,052.580 ppb	0.287 ppb	1.621 ppb	1.006 ppb	0.750 ppb	112.415 %
Concentration per Run 2	0.396 ppb	0.311 ppb	1,618.628 ppb	8,737.011 ppb	0.298 ppb	1.439 ppb	1.028 ppb	0.592 ppb	122.235 %
Concentration per Run 3	0.307 ppb	0.287 ppb	1,541.075 ppb	8,350.694 ppb	0.270 ppb	1.432 ppb	0.958 ppb	0.449 ppb	123.076 %
Concentration RSD	13.5 %	4.2 %	6.3 %	4.0 %	4.9 %	7.2 %	3.6 %	25.3 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	16.897 ppb	0.087 ppb	345.332 ppb	6.221 ppb	110.953 %	0.005 ppb	0.002 ppb	120.301 %	0.065 ppb
Concentration per Run 1	17.376 ppb	0.069 ppb	358.343 ppb	6.135 ppb	106.209 %	0.006 ppb	0.001 ppb	119.588 %	0.058 ppb
Concentration per Run 2	16.941 ppb	0.072 ppb	341.759 ppb	6.204 ppb	113.431 %	0.004 ppb	0.003 ppb	119.796 %	0.066 ppb
Concentration per Run 3	16.374 ppb	0.120 ppb	335.896 ppb	6.325 ppb	113.220 %	0.006 ppb	0.002 ppb	121.519 %	0.072 ppb
Concentration RSD	3.0 %	32.9 %	3.4 %	1.5 %	3.7 %	18.7 %	48.1 %	0.9 %	10.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	87.302 ppb	119.931 %	121.161 %	-0.005 ppb	0.042 ppb	102.901 %
Concentration per Run 1	86.819 ppb	113.592 %	114.999 %	-0.010 ppb	0.042 ppb	96.363 %
Concentration per Run 2	88.262 ppb	122.980 %	125.481 %	-0.001 ppb	0.040 ppb	104.790 %
Concentration per Run 3	86.826 ppb	123.221 %	123.003 %	-0.004 ppb	0.045 ppb	107.550 %
Concentration RSD	1.0 %	4.6 %	4.5 %	86.5 %	6.3 %	5.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 76 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2340535-08 6020TL Rack 2
 Analysis started at: 8/1/2023 5:57:24 PM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	110.126 %	122.317 %	-0.005 ppb	89,817.937 ppb	26,094.196 ppb	148.178 ppb	6,301.730 ppb	82,547.622 ppb	162.772 %
Concentration per Run 1	113.529 %	119.080 %	-0.003 ppb	90,619.463 ppb	26,046.141 ppb	149.688 ppb	6,348.254 ppb	81,784.179 ppb	165.770 %
Concentration per Run 2	111.358 %	126.235 %	-0.006 ppb	87,774.319 ppb	25,402.143 ppb	145.374 ppb	6,240.278 ppb	82,653.112 ppb	166.478 %
Concentration per Run 3	105.490 %	121.636 %	-0.007 ppb	91,060.028 ppb	26,834.303 ppb	149.473 ppb	6,316.658 ppb	83,205.574 ppb	156.069 %
Concentration RSD	3.8 %	3.0 %	39.1 %	2.0 %	2.7 %	1.6 %	0.9 %	0.9 %	3.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.376 ppb	0.532 ppb	8,540.810 ppb	13,374.064 ppb	3.083 ppb	1.177 ppb	1.725 ppb	3.798 ppb	121.479 %
Concentration per Run 1	1.427 ppb	0.552 ppb	8,718.023 ppb	13,666.403 ppb	3.135 ppb	1.260 ppb	1.814 ppb	4.041 ppb	114.542 %
Concentration per Run 2	1.224 ppb	0.509 ppb	8,469.882 ppb	12,877.999 ppb	3.127 ppb	1.039 ppb	1.667 ppb	3.669 ppb	124.704 %
Concentration per Run 3	1.478 ppb	0.536 ppb	8,434.526 ppb	13,577.790 ppb	2.988 ppb	1.232 ppb	1.693 ppb	3.683 ppb	125.189 %
Concentration RSD	9.8 %	4.1 %	1.8 %	3.2 %	2.7 %	10.2 %	4.6 %	5.6 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.718 ppb	0.359 ppb	508.219 ppb	2.145 ppb	109.034 %	-0.001 ppb	0.060 ppb	118.891 %	0.148 ppb
Concentration per Run 1	1.703 ppb	0.406 ppb	518.691 ppb	2.135 ppb	103.645 %	-0.001 ppb	0.057 ppb	111.806 %	0.149 ppb
Concentration per Run 2	1.715 ppb	0.294 ppb	501.924 ppb	2.212 ppb	112.245 %	-0.001 ppb	0.066 ppb	122.637 %	0.147 ppb
Concentration per Run 3	1.737 ppb	0.378 ppb	504.043 ppb	2.090 ppb	111.210 %	0.000 ppb	0.057 ppb	122.229 %	0.148 ppb
Concentration RSD	1.0 %	16.2 %	1.8 %	2.9 %	4.3 %	108.2 %	8.7 %	5.2 %	0.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	131.099 ppb	117.210 %	117.497 %	-0.007 ppb	0.670 ppb	99.337 %
Concentration per Run 1	133.941 ppb	109.884 %	108.197 %	-0.012 ppb	0.672 ppb	92.626 %
Concentration per Run 2	129.379 ppb	118.384 %	120.670 %	-0.003 ppb	0.674 ppb	100.405 %
Concentration per Run 3	129.976 ppb	123.364 %	123.623 %	-0.005 ppb	0.665 ppb	104.980 %
Concentration RSD	1.9 %	5.8 %	7.0 %	67.1 %	0.7 %	6.3 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 77 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2340535-09 6020TL Rack 2
 Analysis started at: 8/1/2023 6:01:52 PM Vial 2

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	114.858 %	122.828 %	-0.013 ppb	12,479.745 ppb	16,014.135 ppb	44.045 ppb	5,969.654 ppb	222,277.400 ppb	147.305 %
Concentration per Run 1	120.653 %	125.724 %	-0.010 ppb	12,034.873 ppb	15,429.607 ppb	41.922 ppb	5,915.801 ppb	218,796.045 ppb	153.851 %
Concentration per Run 2	112.291 %	124.702 %	-0.009 ppb	12,724.247 ppb	16,165.718 ppb	44.960 ppb	5,849.391 ppb	218,137.153 ppb	140.932 %
Concentration per Run 3	111.631 %	118.058 %	-0.021 ppb	12,680.115 ppb	16,447.079 ppb	45.252 ppb	6,143.769 ppb	229,899.001 ppb	147.131 %
Concentration RSD	4.4 %	3.4 %	47.7 %	3.1 %	3.3 %	4.2 %	2.6 %	3.0 %	4.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.870 ppb	0.261 ppb	402.225 ppb	361.470 ppb	2.538 ppb	17.468 ppb	0.831 ppb	2,616.548 ppb	118.051 %
Concentration per Run 1	0.860 ppb	0.274 ppb	392.501 ppb	358.755 ppb	2.469 ppb	16.984 ppb	0.823 ppb	2,619.208 ppb	116.207 %
Concentration per Run 2	0.844 ppb	0.263 ppb	415.172 ppb	373.969 ppb	2.625 ppb	18.527 ppb	0.843 ppb	2,626.827 ppb	118.317 %
Concentration per Run 3	0.907 ppb	0.245 ppb	399.003 ppb	351.687 ppb	2.518 ppb	16.893 ppb	0.827 ppb	2,603.609 ppb	119.630 %
Concentration RSD	3.7 %	5.6 %	2.9 %	3.2 %	3.1 %	5.3 %	1.3 %	0.5 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.901 ppb	0.416 ppb	787.091 ppb	2.585 ppb	111.849 %	0.002 ppb	0.083 ppb	119.919 %	0.954 ppb
Concentration per Run 1	0.906 ppb	0.295 ppb	782.082 ppb	2.572 ppb	111.048 %	0.002 ppb	0.088 ppb	115.688 %	0.961 ppb
Concentration per Run 2	0.861 ppb	0.436 ppb	797.386 ppb	2.624 ppb	111.178 %	0.002 ppb	0.083 ppb	122.001 %	0.939 ppb
Concentration per Run 3	0.937 ppb	0.518 ppb	781.807 ppb	2.560 ppb	113.322 %	0.002 ppb	0.078 ppb	122.068 %	0.963 ppb
Concentration RSD	4.3 %	27.1 %	1.1 %	1.3 %	1.1 %	21.0 %	6.4 %	3.1 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	65.410 ppb	121.193 %	121.260 %	0.006 ppb	4.271 ppb	102.565 %
Concentration per Run 1	65.304 ppb	115.308 %	115.081 %	0.001 ppb	4.309 ppb	95.746 %
Concentration per Run 2	65.990 ppb	123.723 %	122.399 %	0.009 ppb	4.244 ppb	105.397 %
Concentration per Run 3	64.938 ppb	124.547 %	126.301 %	0.010 ppb	4.260 ppb	106.553 %
Concentration RSD	0.8 %	4.2 %	4.7 %	72.0 %	0.8 %	5.8 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 78 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2340857-01 6020TL Rack 2
 Analysis started at: 8/1/2023 6:06:21 PM Vial 3

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.872 %	94.037 %	-0.010 ppb	11,609.545 ppb	15,743.359 ppb	19.993 ppb	24,733.396 ppb	32,505.645 ppb	124.751 %
Concentration per Run 1	100.610 %	84.327 %	-0.008 ppb	12,329.589 ppb	16,156.088 ppb	21.014 ppb	25,247.083 ppb	33,108.387 ppb	129.334 %
Concentration per Run 2	97.041 %	91.993 %	-0.006 ppb	11,712.017 ppb	16,046.895 ppb	20.683 ppb	25,339.577 ppb	32,740.329 ppb	125.039 %
Concentration per Run 3	95.965 %	105.792 %	-0.015 ppb	10,787.027 ppb	15,027.094 ppb	18.281 ppb	23,613.527 ppb	31,668.218 ppb	119.881 %
Concentration RSD	2.5 %	11.6 %	46.9 %	6.7 %	4.0 %	7.5 %	3.9 %	2.3 %	3.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.415 ppb	1.323 ppb	406.408 ppb	71,050.289 ppb	0.946 ppb	0.703 ppb	0.101 ppb	1.124 ppb	114.003 %
Concentration per Run 1	1.432 ppb	1.334 ppb	405.797 ppb	70,861.364 ppb	0.917 ppb	0.709 ppb	0.099 ppb	1.009 ppb	111.411 %
Concentration per Run 2	1.427 ppb	1.327 ppb	413.178 ppb	72,806.252 ppb	0.968 ppb	0.704 ppb	0.098 ppb	1.313 ppb	114.237 %
Concentration per Run 3	1.385 ppb	1.308 ppb	400.249 ppb	69,483.250 ppb	0.952 ppb	0.696 ppb	0.106 ppb	1.049 ppb	116.362 %
Concentration RSD	1.8 %	1.0 %	1.6 %	2.3 %	2.7 %	0.9 %	4.5 %	14.7 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	17.217 ppb	0.273 ppb	349.353 ppb	0.049 ppb	98.142 %	-0.001 ppb	0.001 ppb	108.195 %	0.085 ppb
Concentration per Run 1	17.157 ppb	0.267 ppb	348.237 ppb	0.056 ppb	93.524 %	-0.002 ppb	0.000 ppb	103.825 %	0.077 ppb
Concentration per Run 2	17.102 ppb	0.276 ppb	348.636 ppb	0.046 ppb	100.400 %	-0.002 ppb	0.001 ppb	109.020 %	0.087 ppb
Concentration per Run 3	17.392 ppb	0.275 ppb	351.186 ppb	0.045 ppb	100.504 %	-0.001 ppb	0.003 ppb	111.741 %	0.091 ppb
Concentration RSD	0.9 %	1.7 %	0.5 %	11.9 %	4.1 %	27.1 %	97.6 %	3.7 %	8.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	110.540 ppb	110.291 %	112.558 %	-0.013 ppb	0.058 ppb	96.254 %
Concentration per Run 1	109.977 ppb	102.757 %	103.636 %	-0.018 ppb	0.060 ppb	88.348 %
Concentration per Run 2	110.863 ppb	113.205 %	115.085 %	-0.011 ppb	0.058 ppb	97.441 %
Concentration per Run 3	110.780 ppb	114.911 %	118.952 %	-0.010 ppb	0.056 ppb	102.972 %
Concentration RSD	0.4 %	6.0 %	7.1 %	31.2 %	3.0 %	7.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 79 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2340857-02 6020TL Rack 2
 Analysis started at: 8/1/2023 6:10:50 PM Vial 4

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.924 %	93.697 %	-0.015 ppb	10,983.096 ppb	15,086.042 ppb	19,211 ppb	23,519.699 ppb	31,642.227 ppb	125.376 %
Concentration per Run 1	101.377 %	85.860 %	-0.019 ppb	11,413.741 ppb	16,171.438 ppb	20,420 ppb	24,113.901 ppb	32,457.223 ppb	127.760 %
Concentration per Run 2	99.681 %	100.170 %	-0.011 ppb	10,299.188 ppb	14,065.982 ppb	17,968 ppb	22,968.258 ppb	30,283.504 ppb	128.376 %
Concentration per Run 3	95.715 %	95.060 %	-0.017 ppb	11,236.357 ppb	15,020.706 ppb	19,246 ppb	23,476.937 ppb	32,185.952 ppb	119.991 %
Concentration RSD	2.9 %	7.7 %	26.5 %	5.5 %	7.0 %	6.4 %	2.4 %	3.7 %	3.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.304 ppb	1.325 ppb	393.297 ppb	69,999.746 ppb	0.982 ppb	0.717 ppb	0.094 ppb	0.936 ppb	113.308 %
Concentration per Run 1	1.420 ppb	1.340 ppb	405.322 ppb	73,005.146 ppb	1.021 ppb	0.803 ppb	0.109 ppb	1.017 ppb	105.461 %
Concentration per Run 2	1.213 ppb	1.222 ppb	379.454 ppb	67,041.816 ppb	0.966 ppb	0.681 ppb	0.107 ppb	0.900 ppb	116.437 %
Concentration per Run 3	1.278 ppb	1.412 ppb	395.114 ppb	69,952.275 ppb	0.961 ppb	0.666 ppb	0.067 ppb	0.892 ppb	118.026 %
Concentration RSD	8.1 %	7.3 %	3.3 %	4.3 %	3.4 %	10.4 %	25.3 %	7.5 %	6.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	16.755 ppb	0.298 ppb	340.148 ppb	0.047 ppb	100.491 %	-0.002 ppb	0.003 ppb	110.841 %	0.069 ppb
Concentration per Run 1	17.024 ppb	0.346 ppb	347.737 ppb	0.031 ppb	94.133 %	-0.001 ppb	0.003 ppb	105.496 %	0.073 ppb
Concentration per Run 2	16.439 ppb	0.239 ppb	332.114 ppb	0.057 ppb	104.194 %	-0.001 ppb	0.001 ppb	111.313 %	0.069 ppb
Concentration per Run 3	16.803 ppb	0.309 ppb	340.594 ppb	0.054 ppb	103.145 %	-0.002 ppb	0.003 ppb	115.714 %	0.067 ppb
Concentration RSD	1.8 %	18.2 %	2.3 %	30.7 %	5.5 %	39.7 %	47.6 %	4.6 %	4.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	105.859 ppb	112.519 %	115.154 %	-0.015 ppb	0.070 ppb	99.211 %
Concentration per Run 1	106.043 ppb	104.394 %	105.577 %	-0.018 ppb	0.069 ppb	91.518 %
Concentration per Run 2	105.734 ppb	116.120 %	119.030 %	-0.015 ppb	0.072 ppb	100.006 %
Concentration per Run 3	105.802 ppb	117.042 %	120.856 %	-0.012 ppb	0.070 ppb	106.109 %
Concentration RSD	0.2 %	6.3 %	7.2 %	21.4 %	2.5 %	7.4 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 80 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2340857-03 6020TL Rack 2
 Analysis started at: 8/1/2023 6:15:19 PM Vial 5

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.802 %	93.526 %	-0.020 ppb	16,964.385 ppb	21,360.658 ppb	6.486 ppb	24,402.395 ppb	113,556.481 ppb	160.719 %
Concentration per Run 1	99.117 %	94.549 %	-0.022 ppb	16,677.764 ppb	20,847.199 ppb	6.677 ppb	24,476.292 ppb	114,355.188 ppb	168.255 %
Concentration per Run 2	93.738 %	91.482 %	-0.020 ppb	17,602.959 ppb	22,495.206 ppb	6.043 ppb	24,266.252 ppb	113,721.643 ppb	157.876 %
Concentration per Run 3	91.552 %	94.548 %	-0.018 ppb	16,612.433 ppb	20,739.568 ppb	6.738 ppb	24,464.642 ppb	112,592.611 ppb	156.025 %
Concentration RSD	4.1 %	1.9 %	10.6 %	3.3 %	4.6 %	5.9 %	0.5 %	0.8 %	4.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.286 ppb	0.525 ppb	81.282 ppb	37,346.670 ppb	2.675 ppb	1.048 ppb	0.193 ppb	1.784 ppb	134.195 %
Concentration per Run 1	0.264 ppb	0.550 ppb	82.508 ppb	37,242.581 ppb	2.710 ppb	1.096 ppb	0.203 ppb	1.826 ppb	128.901 %
Concentration per Run 2	0.303 ppb	0.542 ppb	83.697 ppb	39,094.881 ppb	2.716 ppb	1.117 ppb	0.210 ppb	1.885 ppb	134.732 %
Concentration per Run 3	0.289 ppb	0.482 ppb	77.642 ppb	35,702.549 ppb	2.598 ppb	0.930 ppb	0.167 ppb	1.641 ppb	138.953 %
Concentration RSD	6.9 %	7.2 %	3.9 %	4.5 %	2.5 %	9.8 %	12.0 %	7.1 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.115 ppb	0.161 ppb	748.201 ppb	0.103 ppb	99.511 %	-0.002 ppb	0.003 ppb	108.925 %	0.100 ppb
Concentration per Run 1	6.253 ppb	0.226 ppb	757.674 ppb	0.093 ppb	95.783 %	-0.002 ppb	0.002 ppb	103.015 %	0.098 ppb
Concentration per Run 2	6.106 ppb	0.077 ppb	755.591 ppb	0.105 ppb	99.719 %	-0.001 ppb	0.002 ppb	112.150 %	0.096 ppb
Concentration per Run 3	5.985 ppb	0.180 ppb	731.337 ppb	0.111 ppb	103.032 %	-0.002 ppb	0.004 ppb	111.610 %	0.107 ppb
Concentration RSD	2.2 %	47.3 %	2.0 %	8.6 %	3.6 %	24.4 %	37.1 %	4.7 %	6.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	266.913 ppb	111.427 %	114.078 %	0.031 ppb	0.021 ppb	95.361 %
Concentration per Run 1	269.478 ppb	105.119 %	104.771 %	0.028 ppb	0.021 ppb	86.952 %
Concentration per Run 2	267.408 ppb	113.561 %	116.221 %	0.032 ppb	0.020 ppb	98.041 %
Concentration per Run 3	263.851 ppb	115.600 %	121.241 %	0.033 ppb	0.020 ppb	101.091 %
Concentration RSD	1.1 %	5.0 %	7.4 %	8.1 %	0.7 %	7.8 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 81 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2340857-06 6020TL Rack 2
 Analysis started at: 8/1/2023 6:19:48 PM Vial 6

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.431 %	94.549 %	-0.015 ppb	9,321.418 ppb	2,565.433 ppb	56.853 ppb	1,556.937 ppb	38,011.392 ppb	125.045 %
Concentration per Run 1	102.868 %	100.170 %	-0.016 ppb	8,831.270 ppb	2,417.939 ppb	55.567 ppb	1,486.205 ppb	36,495.384 ppb	130.948 %
Concentration per Run 2	98.699 %	89.438 %	-0.013 ppb	9,940.087 ppb	2,743.380 ppb	57.663 ppb	1,616.022 ppb	39,980.861 ppb	122.350 %
Concentration per Run 3	96.725 %	94.037 %	-0.016 ppb	9,192.896 ppb	2,534.981 ppb	57.329 ppb	1,568.583 ppb	37,557.931 ppb	121.836 %
Concentration RSD	3.2 %	5.7 %	11.3 %	6.1 %	6.4 %	2.0 %	4.2 %	4.7 %	4.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.710 ppb	3.545 ppb	521.040 ppb	113,400.085 ppb	1.887 ppb	92.412 ppb	6.583 ppb	264.110 ppb	120.184 %
Concentration per Run 1	0.616 ppb	3.326 ppb	493.600 ppb	107,333.953 ppb	1.739 ppb	89.117 ppb	6.351 ppb	259.205 ppb	122.732 %
Concentration per Run 2	0.831 ppb	3.799 ppb	550.839 ppb	121,444.427 ppb	2.005 ppb	99.173 ppb	6.940 ppb	275.900 ppb	112.798 %
Concentration per Run 3	0.685 ppb	3.509 ppb	518.682 ppb	111,421.874 ppb	1.918 ppb	88.948 ppb	6.457 ppb	257.225 ppb	125.022 %
Concentration RSD	15.4 %	6.7 %	5.5 %	6.4 %	7.2 %	6.3 %	4.8 %	3.9 %	5.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.831 ppb	0.232 ppb	196.892 ppb	9.333 ppb	99.953 %	0.053 ppb	1.937 ppb	110.212 %	0.794 ppb
Concentration per Run 1	4.704 ppb	0.197 ppb	194.656 ppb	9.305 ppb	100.250 %	0.052 ppb	1.948 ppb	108.230 %	0.800 ppb
Concentration per Run 2	5.077 ppb	0.245 ppb	204.107 ppb	9.306 ppb	97.130 %	0.053 ppb	1.907 ppb	111.955 %	0.772 ppb
Concentration per Run 3	4.710 ppb	0.255 ppb	191.915 ppb	9.389 ppb	102.480 %	0.054 ppb	1.957 ppb	110.452 %	0.811 ppb
Concentration RSD	4.4 %	13.2 %	3.2 %	0.5 %	2.7 %	2.2 %	1.4 %	1.7 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	211.599 ppb	107.412 %	110.173 %	-0.014 ppb	28.138 ppb	97.689 %
Concentration per Run 1	212.991 ppb	106.124 %	107.406 %	-0.019 ppb	28.395 ppb	93.808 %
Concentration per Run 2	209.987 ppb	105.301 %	108.932 %	-0.013 ppb	28.043 ppb	96.920 %
Concentration per Run 3	211.818 ppb	110.811 %	114.181 %	-0.011 ppb	27.975 ppb	102.340 %
Concentration RSD	0.7 %	2.8 %	3.2 %	28.0 %	0.8 %	4.4 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 82 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2340857-07 6020TL Rack 2
 Analysis started at: 8/1/2023 6:24:17 PM Vial 7

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.717 %	99.148 %	2.954 ppb	96,051.977 ppb	8,560.197 ppb	4,544.222 ppb	3,468.423 ppb	9,961.406 ppb	127.161 %
Concentration per Run 1	110.438 %	108.348 %	2.917 ppb	85,564.560 ppb	7,691.491 ppb	4,092.249 ppb	3,187.335 ppb	9,154.699 ppb	128.752 %
Concentration per Run 2	108.287 %	90.460 %	2.940 ppb	102,101.692 ppb	9,007.617 ppb	4,814.185 ppb	3,685.616 ppb	10,742.021 ppb	130.276 %
Concentration per Run 3	104.428 %	98.637 %	3.005 ppb	100,489.678 ppb	8,981.482 ppb	4,726.233 ppb	3,532.318 ppb	9,987.499 ppb	122.455 %
Concentration RSD	2.8 %	9.0 %	1.6 %	9.5 %	8.8 %	8.7 %	7.4 %	8.0 %	3.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.013 ppb	0.357 ppb	235.322 ppb	45.230 ppb	20.538 ppb	21.052 ppb	4.949 ppb	91.318 ppb	123.162 %
Concentration per Run 1	0.025 ppb	0.314 ppb	231.194 ppb	44.676 ppb	20.279 ppb	21.272 ppb	4.922 ppb	91.891 ppb	112.560 %
Concentration per Run 2	0.004 ppb	0.383 ppb	235.811 ppb	45.331 ppb	20.484 ppb	20.432 ppb	4.846 ppb	90.584 ppb	125.782 %
Concentration per Run 3	0.011 ppb	0.373 ppb	238.962 ppb	45.684 ppb	20.852 ppb	21.453 ppb	5.078 ppb	91.480 ppb	131.144 %
Concentration RSD	82.4 %	10.5 %	1.7 %	1.1 %	1.4 %	2.6 %	2.4 %	0.7 %	7.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.982 ppb	10.248 ppb	255.015 ppb	0.026 ppb	92.238 %	0.001 ppb	0.191 ppb	97.228 %	0.021 ppb
Concentration per Run 1	3.008 ppb	10.197 ppb	258.721 ppb	0.014 ppb	84.919 %	0.002 ppb	0.199 ppb	88.430 %	0.017 ppb
Concentration per Run 2	2.957 ppb	10.445 ppb	253.315 ppb	0.028 ppb	94.747 %	0.001 ppb	0.189 ppb	99.813 %	0.027 ppb
Concentration per Run 3	2.981 ppb	10.100 ppb	253.009 ppb	0.037 ppb	97.048 %	0.000 ppb	0.183 ppb	103.441 %	0.020 ppb
Concentration RSD	0.9 %	1.7 %	1.3 %	43.5 %	7.0 %	63.7 %	4.3 %	8.1 %	22.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	190.940 ppb	125.834 %	108.675 %	0.293 ppb	1.599 ppb	89.907 %
Concentration per Run 1	191.840 ppb	115.516 %	98.860 %	0.288 ppb	1.603 ppb	82.062 %
Concentration per Run 2	191.172 ppb	129.515 %	112.452 %	0.292 ppb	1.594 ppb	92.000 %
Concentration per Run 3	189.808 ppb	132.472 %	114.712 %	0.297 ppb	1.600 ppb	95.660 %
Concentration RSD	0.5 %	7.2 %	7.9 %	1.6 %	0.3 %	7.8 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 83 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2340857-08 6020TL Rack 2
 Analysis started at: 8/1/2023 6:28:46 PM Vial 8

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.344 %	92.504 %	0.008 ppb	6,150.992 ppb	2,809.742 ppb	42.347 ppb	3,719.264 ppb	22,180.049 ppb	125.191 %
Concentration per Run 1	103.239 %	91.993 %	0.006 ppb	6,007.490 ppb	2,752.094 ppb	40.574 ppb	3,712.532 ppb	22,157.707 ppb	128.356 %
Concentration per Run 2	102.064 %	96.593 %	0.009 ppb	6,089.082 ppb	2,757.011 ppb	41.028 ppb	3,656.350 ppb	21,784.786 ppb	121.975 %
Concentration per Run 3	98.730 %	88.927 %	0.008 ppb	6,356.405 ppb	2,920.120 ppb	45.440 ppb	3,788.911 ppb	22,597.656 ppb	125.243 %
Concentration RSD	2.3 %	4.2 %	22.0 %	3.0 %	3.4 %	6.3 %	1.8 %	1.8 %	2.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.754 ppb	1.421 ppb	131.431 ppb	42,410.146 ppb	2.071 ppb	4.531 ppb	0.771 ppb	142.976 ppb	101.380 %
Concentration per Run 1	0.760 ppb	1.381 ppb	131.977 ppb	43,056.613 ppb	2.098 ppb	4.569 ppb	0.775 ppb	145.152 ppb	96.085 %
Concentration per Run 2	0.684 ppb	1.430 ppb	134.826 ppb	42,262.614 ppb	2.093 ppb	4.396 ppb	0.761 ppb	140.689 ppb	101.846 %
Concentration per Run 3	0.818 ppb	1.453 ppb	127.491 ppb	41,911.209 ppb	2.022 ppb	4.627 ppb	0.776 ppb	143.088 ppb	106.210 %
Concentration RSD	8.9 %	2.6 %	2.8 %	1.4 %	2.1 %	2.7 %	1.1 %	1.6 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.714 ppb	0.338 ppb	183.937 ppb	0.066 ppb	96.032 %	0.000 ppb	0.087 ppb	102.695 %	0.075 ppb
Concentration per Run 1	4.875 ppb	0.418 ppb	184.843 ppb	0.070 ppb	94.305 %	0.000 ppb	0.093 ppb	98.416 %	0.070 ppb
Concentration per Run 2	4.769 ppb	0.318 ppb	186.465 ppb	0.057 ppb	94.346 %	0.000 ppb	0.079 ppb	105.064 %	0.080 ppb
Concentration per Run 3	4.499 ppb	0.279 ppb	180.504 ppb	0.072 ppb	99.444 %	-0.001 ppb	0.090 ppb	104.606 %	0.075 ppb
Concentration RSD	4.1 %	21.2 %	1.7 %	12.3 %	3.1 %	807.4 %	8.3 %	3.6 %	7.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	50.524 ppb	103.540 %	105.368 %	0.062 ppb	0.121 ppb	96.179 %
Concentration per Run 1	50.807 ppb	98.024 %	99.393 %	0.061 ppb	0.118 ppb	89.519 %
Concentration per Run 2	50.024 ppb	103.881 %	105.557 %	0.063 ppb	0.127 ppb	97.100 %
Concentration per Run 3	50.739 ppb	108.715 %	111.154 %	0.062 ppb	0.119 ppb	101.919 %
Concentration RSD	0.9 %	5.2 %	5.6 %	1.9 %	3.8 %	6.5 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 84 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/1/2023 6:33:16 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.391 %	93.697 %	57.958 ppb	5,318.657 ppb	5,571.886 ppb	57.672 ppb	5,359.250 ppb	5,230.097 ppb	107.070 %
Concentration per Run 1	99.090 %	92.504 %	58.936 ppb	5,247.426 ppb	5,586.949 ppb	56.392 ppb	5,219.136 ppb	5,128.457 ppb	108.653 %
Concentration per Run 2	98.929 %	95.571 %	55.897 ppb	5,185.610 ppb	5,295.782 ppb	57.555 ppb	5,453.459 ppb	5,331.409 ppb	110.612 %
Concentration per Run 3	94.155 %	93.015 %	59.040 ppb	5,522.935 ppb	5,832.928 ppb	59.069 ppb	5,405.154 ppb	5,230.425 ppb	101.945 %
Recovery Percentage 1			96.596 %	88.644 %	92.865 %	96.120 %	89.321 %	87.168 %	
Concentration RSD	2.9 %	1.8 %	3.1 %	3.4 %	4.8 %	2.3 %	2.3 %	1.9 %	4.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	54.985 ppb	56.780 ppb	58.461 ppb	5,840.249 ppb	59.582 ppb	58.930 ppb	58.965 ppb	59.258 ppb	98.472 %
Concentration per Run 1	53.671 ppb	56.345 ppb	58.527 ppb	5,703.793 ppb	59.384 ppb	59.994 ppb	59.107 ppb	58.676 ppb	95.020 %
Concentration per Run 2	54.245 ppb	55.016 ppb	56.204 ppb	5,652.065 ppb	57.612 ppb	57.030 ppb	56.811 ppb	58.396 ppb	100.828 %
Concentration per Run 3	57.040 ppb	58.980 ppb	60.651 ppb	6,164.889 ppb	61.749 ppb	59.767 ppb	60.975 ppb	60.703 ppb	99.568 %
Recovery Percentage 1	91.642 %	94.634 %	97.434 %	97.337 %	99.303 %	98.217 %	98.274 %	98.764 %	
Concentration RSD	3.3 %	3.6 %	3.8 %	4.8 %	3.5 %	2.8 %	3.5 %	2.1 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	57.865 ppb	58.435 ppb	56.193 ppb	56.705 ppb	98.198 %	56.211 ppb	58.151 ppb	99.458 %	57.538 ppb
Concentration per Run 1	56.817 ppb	58.365 ppb	56.286 ppb	55.928 ppb	94.309 %	56.468 ppb	58.096 ppb	93.205 %	58.815 ppb
Concentration per Run 2	58.487 ppb	57.872 ppb	55.184 ppb	57.462 ppb	101.008 %	55.826 ppb	58.228 ppb	102.098 %	56.073 ppb
Concentration per Run 3	58.292 ppb	59.066 ppb	57.110 ppb	56.725 ppb	99.276 %	56.341 ppb	58.128 ppb	103.069 %	57.728 ppb
Recovery Percentage 1	96.442 %	97.391 %	93.656 %	94.509 %		93.686 %	96.918 %		95.897 %
Concentration RSD	1.6 %	1.0 %	1.7 %	1.4 %	3.5 %	0.6 %	0.1 %	5.5 %	2.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	56.921 ppb	104.038 %	105.507 %	56.469 ppb	56.172 ppb	100.568 %
Concentration per Run 1	58.972 ppb	99.083 %	98.495 %	55.441 ppb	55.509 ppb	93.603 %
Concentration per Run 2	55.061 ppb	105.341 %	106.922 %	57.435 ppb	55.896 ppb	101.548 %
Concentration per Run 3	56.731 ppb	107.688 %	111.103 %	56.530 ppb	57.110 ppb	106.555 %
Recovery Percentage 1	94.869 %			94.115 %	93.620 %	
Concentration RSD	3.4 %	4.3 %	6.1 %	1.8 %	1.5 %	6.5 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 85 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/1/2023 6:37:48 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.050 %	92.845 %	-0.009 ppb	-1.732 ppb	0.097 ppb	0.146 ppb	-4.879 ppb	-5.834 ppb	108.415 %
Concentration per Run 1	103.594 %	94.549 %	-0.008 ppb	-2.521 ppb	-0.023 ppb	0.554 ppb	-5.159 ppb	-5.737 ppb	111.344 %
Concentration per Run 2	99.532 %	84.838 %	-0.006 ppb	-0.152 ppb	0.203 ppb	0.056 ppb	-6.917 ppb	-6.669 ppb	106.018 %
Concentration per Run 3	100.024 %	99.148 %	-0.014 ppb	-2.522 ppb	0.109 ppb	-0.171 ppb	-2.562 ppb	-5.097 ppb	107.882 %
Recovery Percentage 1			-1.897 %	-1.732 %	0.138 %	1.464 %	-4.879 %	-5.834 %	
Concentration RSD	2.2 %	7.9 %	39.4 %	79.0 %	117.6 %	253.4 %	44.9 %	13.6 %	2.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.014 ppb	-0.007 ppb	-0.049 ppb	7.381 ppb	-0.022 ppb	-0.055 ppb	0.014 ppb	-0.874 ppb	98.707 %
Concentration per Run 1	-0.015 ppb	-0.007 ppb	-0.070 ppb	8.216 ppb	-0.030 ppb	-0.074 ppb	0.006 ppb	-0.893 ppb	94.302 %
Concentration per Run 2	-0.022 ppb	-0.007 ppb	-0.049 ppb	8.761 ppb	-0.019 ppb	-0.062 ppb	0.028 ppb	-0.824 ppb	99.745 %
Concentration per Run 3	-0.006 ppb	-0.009 ppb	-0.029 ppb	5.166 ppb	-0.016 ppb	-0.028 ppb	0.008 ppb	-0.904 ppb	102.074 %
Recovery Percentage 1	-0.286 %	-0.738 %	-4.936 %	14.762 %	-4.320 %	-2.742 %	1.397 %	-17.473 %	
Concentration RSD	55.4 %	14.0 %	41.4 %	26.2 %	35.4 %	43.4 %	84.1 %	5.0 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.003 ppb	0.047 ppb	-0.002 ppb	0.094 ppb	102.402 %	0.006 ppb	0.001 ppb	102.037 %	0.015 ppb
Concentration per Run 1	0.001 ppb	0.106 ppb	-0.001 ppb	0.105 ppb	98.496 %	0.006 ppb	0.001 ppb	98.158 %	0.017 ppb
Concentration per Run 2	0.005 ppb	0.019 ppb	-0.003 ppb	0.115 ppb	102.383 %	0.006 ppb	0.000 ppb	105.642 %	0.013 ppb
Concentration per Run 3	0.002 ppb	0.015 ppb	-0.001 ppb	0.063 ppb	106.327 %	0.006 ppb	0.001 ppb	102.311 %	0.015 ppb
Recovery Percentage 1	0.515 %	0.930 %	-0.017 %	4.719 %		1.543 %	0.252 %		0.378 %
Concentration RSD	79.6 %	110.3 %	63.1 %	29.2 %	3.8 %	4.8 %	118.9 %	3.7 %	12.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.017 ppb	105.512 %	106.756 %	0.156 ppb	0.001 ppb	105.902 %
Concentration per Run 1	-0.004 ppb	100.467 %	100.486 %	0.159 ppb	0.002 ppb	99.150 %
Concentration per Run 2	-0.025 ppb	106.889 %	108.303 %	0.179 ppb	0.003 ppb	108.953 %
Concentration per Run 3	-0.021 ppb	109.182 %	111.478 %	0.131 ppb	0.000 ppb	109.602 %
Recovery Percentage 1	-3.376 %			15.621 %	0.146 %	
Concentration RSD	66.0 %	4.3 %	5.3 %	15.3 %	81.6 %	5.5 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 86 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: CCV Rack: 0
 Analysis started at: 8/1/2023 6:43:33 PM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.108 %	90.290 %	57.048 ppb	5,488.140 ppb	5,702.000 ppb	59.978 ppb	5,488.642 ppb	5,381.856 ppb	106.994 %
Concentration per Run 1	98.436 %	85.349 %	58.490 ppb	5,688.625 ppb	5,960.088 ppb	60.336 ppb	5,473.346 ppb	5,446.655 ppb	106.307 %
Concentration per Run 2	98.314 %	90.460 %	54.665 ppb	5,389.637 ppb	5,528.862 ppb	61.072 ppb	5,570.103 ppb	5,412.874 ppb	111.001 %
Concentration per Run 3	94.573 %	95.060 %	57.991 ppb	5,386.159 ppb	5,617.051 ppb	58.525 ppb	5,422.478 ppb	5,286.037 ppb	103.674 %
Recovery Percentage 1			95.081 %	91.469 %	95.033 %	99.963 %	91.477 %	89.698 %	
Concentration RSD	2.3 %	5.4 %	3.6 %	3.2 %	4.0 %	2.2 %	1.4 %	1.6 %	3.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	56.193 ppb	58.285 ppb	58.556 ppb	5,958.605 ppb	60.134 ppb	60.372 ppb	59.748 ppb	57.518 ppb	94.947 %
Concentration per Run 1	56.891 ppb	60.651 ppb	61.662 ppb	6,196.486 ppb	61.957 ppb	61.664 ppb	60.413 ppb	58.612 ppb	90.073 %
Concentration per Run 2	53.996 ppb	56.352 ppb	55.991 ppb	5,779.684 ppb	58.590 ppb	60.316 ppb	59.257 ppb	57.799 ppb	97.095 %
Concentration per Run 3	57.691 ppb	57.850 ppb	58.013 ppb	5,899.643 ppb	59.856 ppb	59.138 ppb	59.573 ppb	56.142 ppb	97.675 %
Recovery Percentage 1	93.654 %	97.141 %	97.593 %	99.310 %	100.223 %	100.621 %	99.579 %	95.863 %	
Concentration RSD	3.5 %	3.7 %	4.9 %	3.6 %	2.8 %	2.1 %	1.0 %	2.2 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	57.393 ppb	54.972 ppb	57.544 ppb	57.003 ppb	96.342 %	56.463 ppb	56.340 ppb	98.894 %	55.958 ppb
Concentration per Run 1	58.125 ppb	54.492 ppb	58.482 ppb	56.576 ppb	92.225 %	56.023 ppb	56.173 ppb	95.563 %	55.585 ppb
Concentration per Run 2	56.928 ppb	54.183 ppb	56.648 ppb	57.214 ppb	99.217 %	56.764 ppb	56.216 ppb	99.532 %	55.883 ppb
Concentration per Run 3	57.125 ppb	56.241 ppb	57.502 ppb	57.219 ppb	97.584 %	56.602 ppb	56.630 ppb	101.586 %	56.404 ppb
Recovery Percentage 1	95.655 %	91.620 %	95.907 %	95.005 %		94.104 %	93.899 %		93.263 %
Concentration RSD	1.1 %	2.0 %	1.6 %	0.6 %	3.8 %	0.7 %	0.4 %	3.1 %	0.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	56.605 ppb	104.802 %	105.686 %	56.503 ppb	57.142 ppb	99.843 %
Concentration per Run 1	56.699 ppb	98.069 %	98.381 %	55.803 ppb	56.066 ppb	93.093 %
Concentration per Run 2	57.156 ppb	106.549 %	107.792 %	56.872 ppb	57.457 ppb	100.877 %
Concentration per Run 3	55.960 ppb	109.789 %	110.886 %	56.833 ppb	57.902 ppb	105.559 %
Recovery Percentage 1	94.341 %			94.171 %	95.237 %	
Concentration RSD	1.1 %	5.8 %	6.2 %	1.1 %	1.7 %	6.3 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 87 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/1/2023 6:48:04 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.918 %	92.504 %	-0.009 ppb	-2.801 ppb	0.293 ppb	0.185 ppb	-5.105 ppb	-5.110 ppb	98.686 %
Concentration per Run 1	100.100 %	96.082 %	-0.007 ppb	-4.249 ppb	0.494 ppb	0.240 ppb	-6.892 ppb	-4.290 ppb	106.371 %
Concentration per Run 2	96.062 %	79.727 %	-0.002 ppb	-1.090 ppb	0.446 ppb	0.123 ppb	-3.514 ppb	-5.512 ppb	97.249 %
Concentration per Run 3	91.593 %	101.704 %	-0.019 ppb	-3.063 ppb	-0.063 ppb	0.192 ppb	-4.909 ppb	-5.529 ppb	92.437 %
Recovery Percentage 1			-1.891 %	-2.801 %	0.418 %	1.850 %	-5.105 %	-5.110 %	
Concentration RSD	4.4 %	12.3 %	93.5 %	57.0 %	105.5 %	31.9 %	33.2 %	13.9 %	7.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.020 ppb	-0.007 ppb	-0.052 ppb	5.484 ppb	-0.016 ppb	-0.045 ppb	0.028 ppb	-0.851 ppb	96.167 %
Concentration per Run 1	-0.031 ppb	-0.003 ppb	-0.042 ppb	5.995 ppb	-0.020 ppb	-0.034 ppb	0.033 ppb	-0.839 ppb	92.877 %
Concentration per Run 2	-0.003 ppb	-0.008 ppb	-0.082 ppb	4.958 ppb	-0.013 ppb	-0.027 ppb	0.022 ppb	-0.871 ppb	96.337 %
Concentration per Run 3	-0.027 ppb	-0.009 ppb	-0.032 ppb	5.500 ppb	-0.013 ppb	-0.073 ppb	0.028 ppb	-0.844 ppb	99.288 %
Recovery Percentage 1	-0.409 %	-0.685 %	-5.201 %	10.968 %	-3.103 %	-2.236 %	2.784 %	-17.026 %	
Concentration RSD	75.6 %	49.6 %	50.4 %	9.5 %	27.2 %	55.6 %	19.2 %	2.0 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.009 ppb	0.019 ppb	0.001 ppb	0.096 ppb	101.750 %	0.006 ppb	0.002 ppb	102.279 %	0.012 ppb
Concentration per Run 1	0.010 ppb	0.022 ppb	0.002 ppb	0.103 ppb	99.486 %	0.006 ppb	0.004 ppb	97.924 %	0.011 ppb
Concentration per Run 2	0.014 ppb	0.024 ppb	0.001 ppb	0.103 ppb	101.868 %	0.008 ppb	0.002 ppb	103.585 %	0.014 ppb
Concentration per Run 3	0.003 ppb	0.012 ppb	-0.002 ppb	0.083 ppb	103.896 %	0.005 ppb	0.000 ppb	105.327 %	0.012 ppb
Recovery Percentage 1	1.843 %	0.387 %	0.006 %	4.817 %		1.563 %	1.022 %		0.312 %
Concentration RSD	62.4 %	32.8 %	361.7 %	11.7 %	2.2 %	28.2 %	91.4 %	3.8 %	13.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.019 ppb	105.229 %	106.533 %	0.169 ppb	0.001 ppb	106.482 %
Concentration per Run 1	0.005 ppb	99.309 %	99.770 %	0.167 ppb	0.003 ppb	99.595 %
Concentration per Run 2	-0.031 ppb	105.815 %	106.731 %	0.191 ppb	0.000 ppb	107.880 %
Concentration per Run 3	-0.032 ppb	110.565 %	113.097 %	0.150 ppb	0.000 ppb	111.973 %
Recovery Percentage 1	-3.858 %			16.923 %	0.081 %	
Concentration RSD	109.1 %	5.4 %	6.3 %	12.0 %	190.2 %	5.9 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 88 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1808316-1D2 A2-6020T Rack 2
 Analysis started at: 8/1/2023 6:54:58 PM Vial 12

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.003 %	85.690 %	0.065 ppb	52,943.364 ppb	2,917.005 ppb	1,988.581 ppb	1,517.212 ppb	5,806.835 ppb	124.438 %
Concentration per Run 1	106.377 %	81.772 %	0.061 ppb	51,507.665 ppb	2,808.816 ppb	1,951.998 ppb	1,507.134 ppb	5,647.509 ppb	128.026 %
Concentration per Run 2	102.371 %	88.927 %	0.076 ppb	53,914.745 ppb	2,969.047 ppb	1,958.530 ppb	1,465.768 ppb	5,857.375 ppb	121.034 %
Concentration per Run 3	100.261 %	86.371 %	0.059 ppb	53,407.680 ppb	2,973.152 ppb	2,055.215 ppb	1,578.735 ppb	5,915.622 ppb	124.254 %
Concentration RSD	3.0 %	4.2 %	14.7 %	2.4 %	3.2 %	2.9 %	3.8 %	2.4 %	2.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.145 ppb	2.394 ppb	1.865 ppb	56.813 ppb	0.071 ppb	0.533 ppb	3.761 ppb	13.750 ppb	101.320 %
Concentration per Run 1	0.121 ppb	2.315 ppb	1.747 ppb	54.664 ppb	0.068 ppb	0.581 ppb	3.586 ppb	13.542 ppb	97.546 %
Concentration per Run 2	0.130 ppb	2.509 ppb	1.979 ppb	58.917 ppb	0.072 ppb	0.542 ppb	3.964 ppb	14.181 ppb	99.733 %
Concentration per Run 3	0.185 ppb	2.357 ppb	1.868 ppb	56.859 ppb	0.072 ppb	0.476 ppb	3.734 ppb	13.526 ppb	106.680 %
Concentration RSD	23.8 %	4.3 %	6.2 %	3.7 %	3.0 %	10.0 %	5.1 %	2.7 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.027 ppb	0.076 ppb	11.739 ppb	0.268 ppb	96.487 %	0.270 ppb	0.005 ppb	101.041 %	0.048 ppb
Concentration per Run 1	0.014 ppb	0.110 ppb	11.522 ppb	0.282 ppb	90.687 %	0.275 ppb	0.006 ppb	94.731 %	0.043 ppb
Concentration per Run 2	0.045 ppb	0.074 ppb	12.005 ppb	0.234 ppb	96.491 %	0.269 ppb	0.003 ppb	104.205 %	0.048 ppb
Concentration per Run 3	0.023 ppb	0.044 ppb	11.690 ppb	0.288 ppb	102.283 %	0.266 ppb	0.004 ppb	104.187 %	0.053 ppb
Concentration RSD	57.8 %	43.7 %	2.1 %	11.1 %	6.0 %	1.6 %	28.6 %	5.4 %	10.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	21.571 ppb	106.191 %	107.991 %	0.023 ppb	0.397 ppb	98.079 %
Concentration per Run 1	21.159 ppb	98.241 %	99.312 %	0.019 ppb	0.404 ppb	88.703 %
Concentration per Run 2	21.635 ppb	107.166 %	108.960 %	0.026 ppb	0.402 ppb	100.281 %
Concentration per Run 3	21.917 ppb	113.166 %	115.702 %	0.026 ppb	0.385 ppb	105.254 %
Concentration RSD	1.8 %	7.1 %	7.6 %	15.9 %	2.6 %	8.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 89 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1808316-2D10 A2-6020T Rack 2
 Analysis started at: 8/1/2023 6:59:28 PM Vial 13

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.686 %	93.526 %	10.114 ppb	11,520.847 ppb	2,549.773 ppb	827.548 ppb	2,179.918 ppb	2,557.767 ppb	107.167 %
Concentration per Run 1	100.862 %	93.526 %	10.146 ppb	11,517.239 ppb	2,547.792 ppb	836.130 ppb	2,186.762 ppb	2,603.244 ppb	109.693 %
Concentration per Run 2	100.557 %	94.549 %	10.228 ppb	11,527.943 ppb	2,552.534 ppb	814.165 ppb	2,167.603 ppb	2,652.778 ppb	105.581 %
Concentration per Run 3	97.639 %	92.504 %	9.968 ppb	11,517.360 ppb	2,548.993 ppb	832.349 ppb	2,185.390 ppb	2,417.279 ppb	106.227 %
Concentration RSD	1.8 %	1.1 %	1.3 %	0.1 %	0.1 %	1.4 %	0.5 %	4.9 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	95.300 ppb	38.978 ppb	102.122 ppb	213.524 ppb	100.599 ppb	99.885 ppb	51.922 ppb	102.722 ppb	99.985 %
Concentration per Run 1	95.765 ppb	38.303 ppb	102.879 ppb	211.320 ppb	99.660 ppb	99.757 ppb	51.954 ppb	103.150 ppb	100.368 %
Concentration per Run 2	96.386 ppb	40.118 ppb	103.802 ppb	216.949 ppb	102.090 ppb	101.629 ppb	52.940 ppb	104.296 ppb	96.223 %
Concentration per Run 3	93.751 ppb	38.513 ppb	99.685 ppb	212.302 ppb	100.046 ppb	98.268 ppb	50.871 ppb	100.721 ppb	103.362 %
Concentration RSD	1.4 %	2.5 %	2.1 %	1.4 %	1.3 %	1.7 %	2.0 %	1.8 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	23.556 ppb	22.983 ppb	192.017 ppb	192.500 ppb	98.635 %	9.124 ppb	10.583 ppb	99.761 %	34.079 ppb
Concentration per Run 1	23.475 ppb	23.728 ppb	190.798 ppb	192.760 ppb	100.456 %	9.193 ppb	10.497 ppb	98.226 %	33.728 ppb
Concentration per Run 2	24.398 ppb	23.619 ppb	197.795 ppb	191.111 ppb	95.735 %	9.148 ppb	10.631 ppb	101.523 %	33.682 ppb
Concentration per Run 3	22.794 ppb	21.600 ppb	187.458 ppb	193.629 ppb	99.715 %	9.031 ppb	10.620 ppb	99.533 %	34.826 ppb
Concentration RSD	3.4 %	5.2 %	2.7 %	0.7 %	2.6 %	0.9 %	0.7 %	1.7 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	392.671 ppb	103.289 %	103.565 %	21.874 ppb	105.331 ppb	98.252 %
Concentration per Run 1	397.525 ppb	101.418 %	100.829 %	21.958 ppb	105.340 ppb	94.299 %
Concentration per Run 2	385.387 ppb	101.997 %	103.177 %	21.991 ppb	105.914 ppb	98.729 %
Concentration per Run 3	395.102 ppb	106.453 %	106.689 %	21.672 ppb	104.738 ppb	101.727 %
Concentration RSD	1.6 %	2.7 %	2.8 %	0.8 %	0.6 %	3.8 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 90 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1808316-3D10 A2-6020T Rack 2
 Analysis started at: 8/1/2023 7:03:58 PM Vial 15

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.932 %	90.630 %	9.989 ppb	10,605.970 ppb	2,227.963 ppb	2,303.075 ppb	4,927.762 ppb	2,564.537 ppb	113.647 %
Concentration per Run 1	108.743 %	91.482 %	9.898 ppb	10,270.521 ppb	2,171.777 ppb	2,246.332 ppb	4,819.618 ppb	2,378.976 ppb	117.338 %
Concentration per Run 2	106.381 %	93.526 %	9.983 ppb	10,723.151 ppb	2,207.099 ppb	2,271.464 ppb	5,058.954 ppb	2,768.376 ppb	113.271 %
Concentration per Run 3	102.673 %	86.882 %	10.088 ppb	10,824.236 ppb	2,305.012 ppb	2,391.429 ppb	4,904.713 ppb	2,546.258 ppb	110.333 %
Concentration RSD	2.9 %	3.8 %	1.0 %	2.8 %	3.1 %	3.4 %	2.5 %	7.6 %	3.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	93.161 ppb	39.629 ppb	103.759 ppb	267.378 ppb	99.988 ppb	97.766 ppb	142.450 ppb	3,740.745 ppb	105.991 %
Concentration per Run 1	89.974 ppb	38.865 ppb	101.351 ppb	270.467 ppb	100.486 ppb	97.021 ppb	152.706 ppb	3,776.979 ppb	100.538 %
Concentration per Run 2	98.693 ppb	41.494 ppb	106.941 ppb	274.363 ppb	103.417 ppb	100.046 ppb	141.705 ppb	3,829.967 ppb	101.425 %
Concentration per Run 3	90.817 ppb	38.529 ppb	102.984 ppb	257.303 ppb	96.062 ppb	96.230 ppb	132.939 ppb	3,615.288 ppb	116.010 %
Concentration RSD	5.2 %	4.1 %	2.8 %	3.3 %	3.7 %	2.1 %	7.0 %	3.0 %	8.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	23.686 ppb	22.794 ppb	254.371 ppb	195.918 ppb	102.905 %	9.055 ppb	10.574 ppb	105.494 %	35.586 ppb
Concentration per Run 1	23.466 ppb	23.198 ppb	254.503 ppb	195.297 ppb	100.187 %	9.029 ppb	10.421 ppb	100.450 %	35.756 ppb
Concentration per Run 2	25.477 ppb	23.284 ppb	263.084 ppb	197.948 ppb	103.824 %	9.037 ppb	10.573 ppb	109.245 %	35.036 ppb
Concentration per Run 3	22.116 ppb	21.898 ppb	245.526 ppb	194.510 ppb	104.703 %	9.097 ppb	10.727 ppb	106.787 %	35.966 ppb
Concentration RSD	7.1 %	3.4 %	3.5 %	0.9 %	2.3 %	0.4 %	1.4 %	4.3 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	5,340.167 ppb	107.991 %	108.305 %	21.573 ppb	104.418 ppb	101.627 %
Concentration per Run 1	5,379.984 ppb	101.515 %	101.795 %	21.577 ppb	104.789 ppb	94.510 %
Concentration per Run 2	5,275.317 ppb	109.353 %	109.015 %	21.737 ppb	104.462 ppb	103.689 %
Concentration per Run 3	5,365.200 ppb	113.106 %	114.106 %	21.406 ppb	104.003 ppb	106.681 %
Concentration RSD	1.1 %	5.5 %	5.7 %	0.8 %	0.4 %	6.2 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 91 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1808316-5D10 A2-6020T Rack 2
 Analysis started at: 8/1/2023 7:08:27 PM Vial 17

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.866 %	95.911 %	49.663 ppb	10,271.380 ppb	4,939.075 ppb	807.260 ppb	6,534.565 ppb	5,201.240 ppb	108.378 %
Concentration per Run 1	100.084 %	87.393 %	49.802 ppb	11,044.784 ppb	5,269.143 ppb	848.557 ppb	6,759.384 ppb	5,398.804 ppb	110.038 %
Concentration per Run 2	97.489 %	108.859 %	48.865 ppb	9,189.630 ppb	4,494.184 ppb	749.216 ppb	6,234.603 ppb	4,850.978 ppb	109.743 %
Concentration per Run 3	96.025 %	91.482 %	50.321 ppb	10,579.726 ppb	5,053.899 ppb	824.008 ppb	6,609.708 ppb	5,353.938 ppb	105.352 %
Concentration RSD	2.1 %	11.9 %	1.5 %	9.4 %	8.1 %	6.4 %	4.1 %	5.8 %	2.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.033 ppb	48.473 ppb	52.135 ppb	4,912.104 ppb	49.028 ppb	49.162 ppb	129.964 ppb	2,299.481 ppb	103.135 %
Concentration per Run 1	49.138 ppb	50.162 ppb	55.422 ppb	5,078.296 ppb	51.952 ppb	51.450 ppb	136.198 ppb	2,371.651 ppb	97.487 %
Concentration per Run 2	44.256 ppb	45.773 ppb	48.189 ppb	4,718.648 ppb	46.647 ppb	48.253 ppb	128.055 ppb	2,295.140 ppb	104.261 %
Concentration per Run 3	47.705 ppb	49.486 ppb	52.795 ppb	4,939.368 ppb	48.483 ppb	47.782 ppb	125.640 ppb	2,231.651 ppb	107.656 %
Concentration RSD	5.3 %	4.9 %	7.0 %	3.7 %	5.5 %	4.1 %	4.3 %	3.0 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	48.860 ppb	48.694 ppb	87.367 ppb	53.523 ppb	98.865 %	4.206 ppb	48.839 ppb	102.811 %	49.438 ppb
Concentration per Run 1	50.183 ppb	49.920 ppb	89.006 ppb	53.770 ppb	94.956 %	4.167 ppb	49.470 ppb	98.357 %	50.013 ppb
Concentration per Run 2	48.557 ppb	48.399 ppb	86.600 ppb	53.244 ppb	101.533 %	4.147 ppb	48.779 ppb	102.902 %	49.655 ppb
Concentration per Run 3	47.839 ppb	47.762 ppb	86.495 ppb	53.557 ppb	100.107 %	4.303 ppb	48.267 ppb	107.173 %	48.645 ppb
Concentration RSD	2.5 %	2.3 %	1.6 %	0.5 %	3.5 %	2.0 %	1.2 %	4.3 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3,175.049 ppb	105.533 %	106.704 %	48.899 ppb	49.442 ppb	98.118 %
Concentration per Run 1	3,208.043 ppb	100.765 %	101.252 %	48.384 ppb	49.833 ppb	91.460 %
Concentration per Run 2	3,192.852 ppb	107.261 %	108.062 %	48.864 ppb	48.970 ppb	99.653 %
Concentration per Run 3	3,124.251 ppb	108.573 %	110.798 %	49.449 ppb	49.522 ppb	103.241 %
Concentration RSD	1.4 %	4.0 %	4.6 %	1.1 %	0.9 %	6.2 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 92 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1808316-4D2 A2-6020T Rack 2
 Analysis started at: 8/1/2023 7:12:56 PM Vial 16

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.632 %	96.763 %	0.046 ppb	30,500.109 ppb	563.745 ppb	4,532.454 ppb	10,700.226 ppb	3,726.884 ppb	121.280 %
Concentration per Run 1	110.063 %	85.860 %	0.044 ppb	31,609.840 ppb	582.983 ppb	4,705.116 ppb	11,078.405 ppb	3,791.497 ppb	126.699 %
Concentration per Run 2	106.506 %	93.526 %	0.058 ppb	32,077.077 ppb	588.641 ppb	4,635.199 ppb	10,639.197 ppb	3,749.056 ppb	116.947 %
Concentration per Run 3	106.327 %	110.903 %	0.037 ppb	27,813.411 ppb	519.612 ppb	4,257.047 ppb	10,383.077 ppb	3,640.098 ppb	120.194 %
Concentration RSD	2.0 %	13.3 %	22.8 %	7.7 %	6.8 %	5.3 %	3.3 %	2.1 %	4.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.409 ppb	4.342 ppb	7.411 ppb	292.342 ppb	0.090 ppb	0.637 ppb	444.848 ppb	12,054.789 ppb	110.130 %
Concentration per Run 1	0.397 ppb	4.347 ppb	7.359 ppb	303.352 ppb	0.092 ppb	0.561 ppb	447.451 ppb	11,981.787 ppb	106.818 %
Concentration per Run 2	0.413 ppb	4.521 ppb	7.560 ppb	296.932 ppb	0.085 ppb	0.695 ppb	459.215 ppb	12,264.529 ppb	109.744 %
Concentration per Run 3	0.418 ppb	4.158 ppb	7.314 ppb	276.743 ppb	0.093 ppb	0.654 ppb	427.877 ppb	11,918.050 ppb	113.827 %
Concentration RSD	2.6 %	4.2 %	1.8 %	4.7 %	5.0 %	10.8 %	3.6 %	1.5 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.774 ppb	0.351 ppb	218.443 ppb	23.394 ppb	101.445 %	0.410 ppb	0.121 ppb	110.374 %	0.855 ppb
Concentration per Run 1	1.718 ppb	0.318 ppb	216.730 ppb	23.415 ppb	97.886 %	0.393 ppb	0.114 ppb	102.770 %	0.867 ppb
Concentration per Run 2	1.827 ppb	0.319 ppb	220.834 ppb	23.434 ppb	98.929 %	0.418 ppb	0.128 ppb	111.182 %	0.872 ppb
Concentration per Run 3	1.776 ppb	0.415 ppb	217.765 ppb	23.332 ppb	107.520 %	0.418 ppb	0.122 ppb	117.171 %	0.827 ppb
Concentration RSD	3.1 %	15.9 %	1.0 %	0.2 %	5.2 %	3.5 %	5.7 %	6.6 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	17,960.030 ppb	108.576 %	109.542 %	0.235 ppb	3.372 ppb	97.936 %
Concentration per Run 1	18,020.540 ppb	102.219 %	101.784 %	0.238 ppb	3.413 ppb	89.442 %
Concentration per Run 2	17,782.366 ppb	108.962 %	110.199 %	0.259 ppb	3.369 ppb	99.329 %
Concentration per Run 3	18,077.183 ppb	114.548 %	116.643 %	0.208 ppb	3.333 ppb	105.038 %
Concentration RSD	0.9 %	5.7 %	6.8 %	10.9 %	1.2 %	8.1 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 93 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343065-01D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 7:17:25 PM Vial: 14

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	112.013 %	108.859 %	0.036 ppb	26,733.802 ppb	487.406 ppb	3,721.363 ppb	9,453.569 ppb	3,157.936 ppb	123.269 %
Concentration per Run 1	113.640 %	101.192 %	0.041 ppb	27,200.346 ppb	494.594 ppb	3,721.932 ppb	9,209.750 ppb	3,114.137 ppb	126.254 %
Concentration per Run 2	112.971 %	98.126 %	0.032 ppb	28,345.063 ppb	523.536 ppb	3,981.917 ppb	10,162.520 ppb	3,269.281 ppb	126.820 %
Concentration per Run 3	109.429 %	127.257 %	0.034 ppb	24,655.997 ppb	444.087 ppb	3,460.239 ppb	8,988.436 ppb	3,090.391 ppb	116.732 %
Concentration RSD	2.0 %	14.7 %	13.4 %	7.1 %	8.2 %	7.0 %	6.6 %	3.1 %	4.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.316 ppb	4.321 ppb	7.015 ppb	268.527 ppb	0.082 ppb	0.764 ppb	416.360 ppb	11,269.032 ppb	108.578 %
Concentration per Run 1	0.328 ppb	4.393 ppb	6.844 ppb	263.874 ppb	0.091 ppb	0.712 ppb	429.952 ppb	11,398.045 ppb	103.792 %
Concentration per Run 2	0.322 ppb	4.330 ppb	7.141 ppb	269.186 ppb	0.080 ppb	0.860 ppb	405.183 ppb	11,288.668 ppb	109.083 %
Concentration per Run 3	0.297 ppb	4.239 ppb	7.059 ppb	272.521 ppb	0.075 ppb	0.719 ppb	413.944 ppb	11,120.383 ppb	112.860 %
Concentration RSD	5.2 %	1.8 %	2.2 %	1.6 %	9.7 %	10.9 %	3.0 %	1.2 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.595 ppb	0.296 ppb	201.392 ppb	20.394 ppb	102.428 %	0.395 ppb	0.179 ppb	111.211 %	0.766 ppb
Concentration per Run 1	1.560 ppb	0.242 ppb	199.461 ppb	19.794 ppb	96.370 %	0.405 ppb	0.173 ppb	103.503 %	0.778 ppb
Concentration per Run 2	1.662 ppb	0.306 ppb	199.495 ppb	20.366 ppb	104.453 %	0.389 ppb	0.172 ppb	110.700 %	0.743 ppb
Concentration per Run 3	1.564 ppb	0.339 ppb	205.218 ppb	21.021 ppb	106.460 %	0.389 ppb	0.191 ppb	119.429 %	0.776 ppb
Concentration RSD	3.6 %	16.8 %	1.6 %	3.0 %	5.2 %	2.4 %	6.0 %	7.2 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	16,261.558 ppb	109.391 %	109.509 %	0.099 ppb	3.152 ppb	98.257 %
Concentration per Run 1	16,520.208 ppb	100.536 %	100.243 %	0.086 ppb	3.176 ppb	89.006 %
Concentration per Run 2	16,191.243 ppb	109.302 %	110.374 %	0.108 ppb	3.171 ppb	98.465 %
Concentration per Run 3	16,073.223 ppb	118.335 %	117.910 %	0.104 ppb	3.108 ppb	107.302 %
Concentration RSD	1.4 %	8.1 %	8.1 %	11.8 %	1.2 %	9.3 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 94 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2340857-11 6020TL Rack 2
 Analysis started at: 8/1/2023 7:21:55 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.700 %	97.445 %	-0.017 ppb	-0.004 ppb	1.949 ppb	2.240 ppb	-5.564 ppb	-3.442 ppb	108.513 %
Concentration per Run 1	109.353 %	99.659 %	-0.016 ppb	-0.335 ppb	2.170 ppb	2.435 ppb	-4.952 ppb	-2.496 ppb	109.049 %
Concentration per Run 2	106.229 %	92.504 %	-0.017 ppb	0.084 ppb	2.184 ppb	1.872 ppb	-5.644 ppb	-3.740 ppb	111.504 %
Concentration per Run 3	104.516 %	100.170 %	-0.017 ppb	0.240 ppb	1.493 ppb	2.411 ppb	-6.095 ppb	-4.089 ppb	104.987 %
Concentration RSD	2.3 %	4.4 %	3.1 %	8,204.2 %	20.3 %	14.2 %	10.4 %	24.3 %	3.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.061 ppb	0.104 ppb	0.301 ppb	9.544 ppb	-0.018 ppb	-0.041 ppb	0.125 ppb	-0.221 ppb	104.948 %
Concentration per Run 1	0.071 ppb	0.106 ppb	0.242 ppb	10.752 ppb	-0.016 ppb	-0.079 ppb	0.135 ppb	-0.175 ppb	102.137 %
Concentration per Run 2	0.071 ppb	0.101 ppb	0.304 ppb	10.048 ppb	-0.024 ppb	-0.047 ppb	0.102 ppb	-0.214 ppb	109.057 %
Concentration per Run 3	0.042 ppb	0.105 ppb	0.357 ppb	7.831 ppb	-0.015 ppb	0.004 ppb	0.138 ppb	-0.273 ppb	103.651 %
Concentration RSD	27.4 %	2.4 %	19.1 %	16.0 %	29.0 %	102.7 %	16.1 %	22.5 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.007 ppb	0.013 ppb	0.399 ppb	0.093 ppb	107.059 %	0.005 ppb	-0.001 ppb	107.922 %	0.028 ppb
Concentration per Run 1	-0.006 ppb	0.011 ppb	0.412 ppb	0.069 ppb	103.948 %	0.005 ppb	-0.001 ppb	106.311 %	0.030 ppb
Concentration per Run 2	-0.010 ppb	0.018 ppb	0.400 ppb	0.103 ppb	113.726 %	0.004 ppb	-0.001 ppb	111.889 %	0.024 ppb
Concentration per Run 3	-0.006 ppb	0.010 ppb	0.385 ppb	0.108 ppb	103.504 %	0.005 ppb	-0.001 ppb	105.565 %	0.029 ppb
Concentration RSD	30.7 %	34.1 %	3.5 %	22.8 %	5.4 %	11.2 %	0.0 %	3.2 %	12.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.957 ppb	108.505 %	107.571 %	0.005 ppb	0.000 ppb	108.919 %
Concentration per Run 1	1.014 ppb	105.898 %	104.679 %	-0.001 ppb	-0.001 ppb	104.879 %
Concentration per Run 2	0.946 ppb	115.266 %	112.709 %	0.010 ppb	0.000 ppb	113.011 %
Concentration per Run 3	0.910 ppb	104.351 %	105.324 %	0.008 ppb	0.000 ppb	108.868 %
Concentration RSD	5.6 %	5.4 %	4.1 %	109.6 %	179.6 %	3.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 95 User name ALPHALABla2-icpmsq2 Comment <Comment>
 Analysis label: I2339906-05 CT-6020TL Rack 2
 Analysis started at: 8/1/2023 7:26:25 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	113.219 %	108.859 %	-0.012 ppb	28,169.660 ppb	3,352.523 ppb	25.182 ppb	1,590.059 ppb	46,224.302 ppb	137.615 %
Concentration per Run 1	117.121 %	107.325 %	-0.019 ppb	28,045.776 ppb	3,308.532 ppb	25.106 ppb	1,572.060 ppb	45,479.097 ppb	143.716 %
Concentration per Run 2	111.970 %	111.414 %	-0.014 ppb	28,187.395 ppb	3,380.867 ppb	25.596 ppb	1,544.009 ppb	45,396.058 ppb	133.411 %
Concentration per Run 3	110.565 %	107.836 %	-0.004 ppb	28,275.809 ppb	3,368.169 ppb	24.843 ppb	1,654.108 ppb	47,797.751 ppb	135.717 %
Concentration RSD	3.0 %	2.0 %	62.7 %	0.4 %	1.2 %	1.5 %	3.6 %	2.9 %	3.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.429 ppb	0.719 ppb	131.952 ppb	77.195 ppb	0.167 ppb	0.831 ppb	1.561 ppb	1.469 ppb	107.327 %
Concentration per Run 1	0.376 ppb	0.725 ppb	131.331 ppb	76.381 ppb	0.175 ppb	0.836 ppb	1.562 ppb	1.383 ppb	105.165 %
Concentration per Run 2	0.416 ppb	0.746 ppb	134.847 ppb	76.658 ppb	0.179 ppb	0.864 ppb	1.573 ppb	1.475 ppb	107.213 %
Concentration per Run 3	0.495 ppb	0.688 ppb	129.679 ppb	78.546 ppb	0.146 ppb	0.792 ppb	1.547 ppb	1.549 ppb	109.604 %
Concentration RSD	14.1 %	4.0 %	2.0 %	1.5 %	10.7 %	4.4 %	0.8 %	5.7 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.127 ppb	0.112 ppb	109.894 ppb	0.067 ppb	106.004 %	0.009 ppb	0.013 ppb	108.660 %	0.042 ppb
Concentration per Run 1	0.128 ppb	0.070 ppb	108.787 ppb	0.066 ppb	103.299 %	0.008 ppb	0.012 ppb	104.697 %	0.039 ppb
Concentration per Run 2	0.108 ppb	0.078 ppb	111.373 ppb	0.061 ppb	104.905 %	0.009 ppb	0.014 ppb	111.093 %	0.045 ppb
Concentration per Run 3	0.144 ppb	0.188 ppb	109.521 ppb	0.074 ppb	109.807 %	0.011 ppb	0.012 ppb	110.189 %	0.043 ppb
Concentration RSD	14.4 %	58.7 %	1.2 %	9.8 %	3.2 %	18.4 %	9.6 %	3.2 %	7.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	932.647 ppb	111.313 %	110.454 %	0.000 ppb	0.090 ppb	102.019 %
Concentration per Run 1	934.087 ppb	104.863 %	103.654 %	-0.005 ppb	0.089 ppb	94.677 %
Concentration per Run 2	923.856 ppb	113.302 %	111.830 %	0.005 ppb	0.089 ppb	104.273 %
Concentration per Run 3	939.997 ppb	115.773 %	115.878 %	0.001 ppb	0.093 ppb	107.107 %
Concentration RSD	0.9 %	5.1 %	5.6 %	3,066.3 %	2.6 %	6.4 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 96 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2339906-06 CT-6020TL Rack 2
 Analysis started at: 8/1/2023 7:30:55 PM Vial 11

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.718 %	90.801 %	0.167 ppb	12,703.716 ppb	1,833.069 ppb	1,137.129 ppb	536.834 ppb	24,961.617 ppb	117.048 %
Concentration per Run 1	99.334 %	82.794 %	0.181 ppb	13,475.079 ppb	1,929.531 ppb	1,195.992 ppb	549.286 ppb	25,024.806 ppb	118.806 %
Concentration per Run 2	99.149 %	95.060 %	0.158 ppb	12,164.218 ppb	1,767.772 ppb	1,097.515 ppb	540.693 ppb	25,298.097 ppb	118.127 %
Concentration per Run 3	94.670 %	94.549 %	0.163 ppb	12,471.852 ppb	1,801.905 ppb	1,117.880 ppb	520.524 ppb	24,561.946 ppb	114.210 %
Concentration RSD	2.7 %	7.6 %	7.2 %	5.4 %	4.7 %	4.6 %	2.8 %	1.5 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	4.852 ppb	2.099 ppb	920.617 ppb	11,171.180 ppb	5.538 ppb	2.735 ppb	1.577 ppb	14.024 ppb	97.608 %
Concentration per Run 1	4.804 ppb	2.123 ppb	924.506 ppb	11,259.830 ppb	5.611 ppb	2.844 ppb	1.645 ppb	14.304 ppb	97.076 %
Concentration per Run 2	4.908 ppb	2.082 ppb	907.725 ppb	10,974.993 ppb	5.400 ppb	2.705 ppb	1.508 ppb	13.782 ppb	98.377 %
Concentration per Run 3	4.845 ppb	2.091 ppb	929.620 ppb	11,278.718 ppb	5.603 ppb	2.655 ppb	1.579 ppb	13.984 ppb	97.372 %
Concentration RSD	1.1 %	1.0 %	1.2 %	1.5 %	2.2 %	3.6 %	4.4 %	1.9 %	0.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.088 ppb	0.922 ppb	87.368 ppb	0.120 ppb	96.882 %	0.017 ppb	0.114 ppb	101.061 %	0.115 ppb
Concentration per Run 1	2.063 ppb	0.781 ppb	86.844 ppb	0.124 ppb	94.287 %	0.017 ppb	0.118 ppb	96.345 %	0.120 ppb
Concentration per Run 2	2.062 ppb	0.960 ppb	87.194 ppb	0.124 ppb	98.249 %	0.017 ppb	0.116 ppb	103.077 %	0.112 ppb
Concentration per Run 3	2.141 ppb	1.025 ppb	88.067 ppb	0.111 ppb	98.111 %	0.016 ppb	0.108 ppb	103.760 %	0.112 ppb
Concentration RSD	2.2 %	13.7 %	0.7 %	6.7 %	2.3 %	3.9 %	4.7 %	4.1 %	4.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	182.089 ppb	103.926 %	103.181 %	0.003 ppb	6.947 ppb	96.865 %
Concentration per Run 1	186.674 ppb	99.390 %	97.920 %	0.000 ppb	6.947 ppb	90.749 %
Concentration per Run 2	176.883 ppb	105.446 %	104.327 %	0.007 ppb	7.025 ppb	98.187 %
Concentration per Run 3	182.711 ppb	106.942 %	107.295 %	0.002 ppb	6.869 ppb	101.659 %
Concentration RSD	2.7 %	3.8 %	4.6 %	132.4 %	1.1 %	5.8 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 97 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1808316-6D10 A2-6020T Rack 2
 Analysis started at: 8/1/2023 7:35:25 PM Vial 18

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.914 %	94.889 %	-0.014 ppb	5,324.806 ppb	103.620 ppb	758.372 ppb	1,873.608 ppb	661.000 ppb	113.032 %
Concentration per Run 1	106.367 %	85.349 %	-0.016 ppb	5,343.094 ppb	106.461 ppb	771.960 ppb	1,835.616 ppb	620.237 ppb	114.513 %
Concentration per Run 2	107.946 %	98.637 %	-0.019 ppb	4,980.430 ppb	99.794 ppb	732.611 ppb	1,909.852 ppb	687.334 ppb	115.254 %
Concentration per Run 3	103.428 %	100.681 %	-0.007 ppb	5,650.893 ppb	104.605 ppb	770.543 ppb	1,875.357 ppb	675.430 ppb	109.328 %
Concentration RSD	2.2 %	8.8 %	46.4 %	6.3 %	3.3 %	2.9 %	2.0 %	5.4 %	2.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.096 ppb	0.850 ppb	1.390 ppb	60.660 ppb	0.006 ppb	0.091 ppb	86.307 ppb	2,451.080 ppb	94.497 %
Concentration per Run 1	0.085 ppb	0.806 ppb	1.409 ppb	61.052 ppb	0.012 ppb	0.099 ppb	85.339 ppb	2,417.781 ppb	91.339 %
Concentration per Run 2	0.097 ppb	0.885 ppb	1.342 ppb	56.193 ppb	-0.003 ppb	0.043 ppb	84.347 ppb	2,481.483 ppb	91.809 %
Concentration per Run 3	0.106 ppb	0.859 ppb	1.419 ppb	64.736 ppb	0.009 ppb	0.129 ppb	89.237 ppb	2,453.976 ppb	100.344 %
Concentration RSD	10.7 %	4.7 %	3.0 %	7.1 %	129.6 %	48.0 %	3.0 %	1.3 %	5.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.303 ppb	0.080 ppb	37.868 ppb	3.881 ppb	94.976 %	0.084 ppb	0.036 ppb	99.358 %	0.155 ppb
Concentration per Run 1	0.304 ppb	0.038 ppb	36.844 ppb	3.716 ppb	88.194 %	0.081 ppb	0.041 ppb	89.657 %	0.161 ppb
Concentration per Run 2	0.357 ppb	0.085 ppb	37.897 ppb	3.980 ppb	96.366 %	0.087 ppb	0.031 ppb	98.231 %	0.148 ppb
Concentration per Run 3	0.248 ppb	0.116 ppb	38.863 ppb	3.947 ppb	100.368 %	0.083 ppb	0.036 ppb	110.188 %	0.157 ppb
Concentration RSD	17.9 %	48.9 %	2.7 %	3.7 %	6.5 %	3.4 %	13.0 %	10.4 %	4.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3,111.443 ppb	100.854 %	100.665 %	0.002 ppb	0.606 ppb	96.716 %
Concentration per Run 1	3,149.432 ppb	91.709 %	91.567 %	-0.003 ppb	0.602 ppb	88.283 %
Concentration per Run 2	3,057.779 ppb	100.050 %	99.068 %	0.005 ppb	0.605 ppb	94.962 %
Concentration per Run 3	3,127.119 ppb	110.803 %	111.360 %	0.005 ppb	0.609 ppb	106.905 %
Concentration RSD	1.5 %	9.5 %	9.9 %	206.1 %	0.6 %	9.8 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 98 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/1/2023 7:39:54 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.496 %	94.889 %	56.392 ppb	5,342.440 ppb	5,598.529 ppb	57.888 ppb	5,252.778 ppb	5,072.522 ppb	105.762 %
Concentration per Run 1	98.706 %	92.504 %	57.575 ppb	5,427.828 ppb	5,644.738 ppb	58.664 ppb	5,261.072 ppb	5,097.197 ppb	107.030 %
Concentration per Run 2	96.569 %	89.949 %	54.798 ppb	5,457.353 ppb	5,795.004 ppb	61.020 ppb	5,353.573 ppb	5,120.591 ppb	109.498 %
Concentration per Run 3	94.214 %	102.215 %	56.804 ppb	5,142.137 ppb	5,355.845 ppb	53.981 ppb	5,143.690 ppb	4,999.779 ppb	100.759 %
Recovery Percentage 1			93.987 %	89.041 %	93.309 %	96.480 %	87.546 %	84.542 %	
Concentration RSD	2.3 %	6.8 %	2.5 %	3.3 %	4.0 %	6.2 %	2.0 %	1.3 %	4.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	53.977 ppb	55.785 ppb	58.675 ppb	5,760.762 ppb	58.567 ppb	59.304 ppb	58.578 ppb	57.076 ppb	96.117 %
Concentration per Run 1	54.612 ppb	57.343 ppb	59.217 ppb	5,798.826 ppb	60.048 ppb	59.176 ppb	58.248 ppb	57.321 ppb	92.693 %
Concentration per Run 2	52.308 ppb	54.878 ppb	59.140 ppb	5,703.079 ppb	57.886 ppb	60.045 ppb	58.424 ppb	57.407 ppb	98.355 %
Concentration per Run 3	55.012 ppb	55.135 ppb	57.670 ppb	5,780.382 ppb	57.766 ppb	58.691 ppb	59.062 ppb	56.499 ppb	97.304 %
Recovery Percentage 1	89.962 %	92.975 %	97.792 %	96.013 %	97.611 %	98.840 %	97.630 %	95.127 %	
Concentration RSD	2.7 %	2.4 %	1.5 %	0.9 %	2.2 %	1.2 %	0.7 %	0.9 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	56.320 ppb	53.955 ppb	56.158 ppb	55.635 ppb	96.819 %	55.641 ppb	55.645 ppb	99.644 %	55.578 ppb
Concentration per Run 1	56.556 ppb	54.545 ppb	56.570 ppb	55.492 ppb	93.125 %	56.558 ppb	56.187 ppb	95.431 %	56.309 ppb
Concentration per Run 2	55.087 ppb	52.992 ppb	54.791 ppb	55.719 ppb	100.931 %	54.633 ppb	55.276 ppb	98.849 %	55.490 ppb
Concentration per Run 3	57.318 ppb	54.327 ppb	57.113 ppb	55.693 ppb	96.400 %	55.733 ppb	55.471 ppb	104.654 %	54.934 ppb
Recovery Percentage 1	93.867 %	89.925 %	93.597 %	92.724 %		92.736 %	92.741 %		92.629 %
Concentration RSD	2.0 %	1.6 %	2.2 %	0.2 %	4.0 %	1.7 %	0.9 %	4.7 %	1.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	56.138 ppb	103.852 %	105.169 %	55.699 ppb	56.835 ppb	99.373 %
Concentration per Run 1	56.453 ppb	96.861 %	96.802 %	55.219 ppb	55.722 ppb	92.801 %
Concentration per Run 2	56.363 ppb	106.933 %	107.407 %	55.770 ppb	57.011 ppb	101.321 %
Concentration per Run 3	55.599 ppb	107.763 %	111.298 %	56.107 ppb	57.772 ppb	103.998 %
Recovery Percentage 1	93.564 %			92.831 %	94.725 %	
Concentration RSD	0.8 %	5.8 %	7.1 %	0.8 %	1.8 %	5.9 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 99 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: CCB Rack: 0
 Analysis started at: 8/1/2023 7:44:27 PM Vial: 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.761 %	91.312 %	-0.009 ppb	-3.284 ppb	0.140 ppb	0.214 ppb	-6.650 ppb	-5.996 ppb	97.352 %
Concentration per Run 1	95.634 %	77.683 %	-0.001 ppb	-1.237 ppb	0.595 ppb	0.025 ppb	-6.450 ppb	-6.866 ppb	97.361 %
Concentration per Run 2	96.323 %	94.549 %	-0.012 ppb	-4.279 ppb	-0.286 ppb	0.386 ppb	-5.312 ppb	-5.259 ppb	99.219 %
Concentration per Run 3	92.326 %	101.704 %	-0.014 ppb	-4.338 ppb	0.111 ppb	0.231 ppb	-8.186 ppb	-5.862 ppb	95.475 %
Recovery Percentage 1			-1.824 %	-3.284 %	0.200 %	2.140 %	-6.650 %	-5.996 %	
Concentration RSD	2.3 %	13.5 %	76.1 %	54.0 %	314.7 %	84.7 %	21.8 %	13.5 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.008 ppb	-0.010 ppb	-0.030 ppb	5.363 ppb	-0.021 ppb	-0.028 ppb	0.024 ppb	-0.825 ppb	92.453 %
Concentration per Run 1	-0.017 ppb	-0.004 ppb	-0.028 ppb	6.590 ppb	-0.024 ppb	-0.016 ppb	0.021 ppb	-0.786 ppb	89.112 %
Concentration per Run 2	-0.018 ppb	-0.012 ppb	-0.021 ppb	5.370 ppb	-0.015 ppb	-0.030 ppb	0.022 ppb	-0.823 ppb	94.251 %
Concentration per Run 3	0.013 ppb	-0.013 ppb	-0.041 ppb	4.127 ppb	-0.025 ppb	-0.038 ppb	0.030 ppb	-0.868 ppb	93.996 %
Recovery Percentage 1	-0.150 %	-0.978 %	-2.973 %	10.726 %	-4.202 %	-1.406 %	2.439 %	-16.508 %	
Concentration RSD	233.9 %	53.7 %	34.0 %	23.0 %	26.2 %	39.3 %	18.9 %	5.0 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.001 ppb	0.013 ppb	-0.001 ppb	0.105 ppb	95.699 %	0.010 ppb	0.001 ppb	97.182 %	0.020 ppb
Concentration per Run 1	0.002 ppb	0.000 ppb	-0.001 ppb	0.105 ppb	92.883 %	0.008 ppb	0.000 ppb	94.803 %	0.018 ppb
Concentration per Run 2	0.002 ppb	0.020 ppb	0.000 ppb	0.121 ppb	96.832 %	0.014 ppb	0.001 ppb	98.095 %	0.023 ppb
Concentration per Run 3	-0.001 ppb	0.019 ppb	-0.002 ppb	0.090 ppb	97.380 %	0.009 ppb	0.001 ppb	98.649 %	0.018 ppb
Recovery Percentage 1	0.203 %	0.256 %	-0.009 %	5.264 %		2.609 %	0.367 %		0.498 %
Concentration RSD	188.6 %	89.5 %	117.9 %	14.9 %	2.6 %	31.5 %	37.9 %	2.1 %	13.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.059 ppb	100.970 %	102.397 %	0.163 ppb	0.001 ppb	102.147 %
Concentration per Run 1	0.066 ppb	97.081 %	97.991 %	0.168 ppb	0.000 ppb	97.990 %
Concentration per Run 2	0.040 ppb	102.001 %	102.397 %	0.188 ppb	0.003 ppb	102.634 %
Concentration per Run 3	0.073 ppb	103.828 %	106.802 %	0.134 ppb	0.000 ppb	105.817 %
Recovery Percentage 1	11.899 %			16.336 %	0.102 %	
Concentration RSD	28.7 %	3.5 %	4.3 %	16.8 %	182.1 %	3.9 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 100 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343065-02D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 7:49:00 PM Vial: 19

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.386 %	89.097 %	0.040 ppb	31,270.014 ppb	584.205 ppb	4,491.869 ppb	10,754.014 ppb	3,677.932 ppb	121.581 %
Concentration per Run 1	109.462 %	87.905 %	0.043 ppb	30,643.634 ppb	557.489 ppb	4,376.261 ppb	10,524.840 ppb	3,625.220 ppb	118.260 %
Concentration per Run 2	105.199 %	88.927 %	0.040 ppb	31,149.805 ppb	599.279 ppb	4,594.016 ppb	10,466.484 ppb	3,478.405 ppb	136.871 %
Concentration per Run 3	104.498 %	90.460 %	0.036 ppb	32,016.603 ppb	595.848 ppb	4,505.329 ppb	11,270.717 ppb	3,930.170 ppb	109.612 %
Concentration RSD	2.5 %	1.4 %	9.1 %	2.2 %	4.0 %	2.4 %	4.2 %	6.3 %	11.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.404 ppb	10.380 ppb	8.468 ppb	359.186 ppb	0.118 ppb	1.330 ppb	92.919 ppb	12,157.039 ppb	102.863 %
Concentration per Run 1	0.431 ppb	10.578 ppb	8.747 ppb	363.970 ppb	0.129 ppb	1.324 ppb	92.653 ppb	12,251.798 ppb	94.355 %
Concentration per Run 2	0.363 ppb	9.843 ppb	7.940 ppb	347.969 ppb	0.110 ppb	1.251 ppb	92.159 ppb	12,055.126 ppb	108.383 %
Concentration per Run 3	0.417 ppb	10.721 ppb	8.715 ppb	365.618 ppb	0.116 ppb	1.415 ppb	93.944 ppb	12,164.192 ppb	105.851 %
Concentration RSD	8.9 %	4.5 %	5.4 %	2.7 %	8.2 %	6.2 %	1.0 %	0.8 %	7.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.823 ppb	0.399 ppb	217.332 ppb	3.301 ppb	97.933 %	0.074 ppb	0.392 ppb	108.161 %	1.062 ppb
Concentration per Run 1	1.933 ppb	0.445 ppb	220.311 ppb	3.280 ppb	91.262 %	0.076 ppb	0.374 ppb	102.629 %	1.036 ppb
Concentration per Run 2	1.688 ppb	0.375 ppb	213.377 ppb	3.193 ppb	99.878 %	0.073 ppb	0.391 ppb	107.239 %	1.088 ppb
Concentration per Run 3	1.848 ppb	0.376 ppb	218.309 ppb	3.431 ppb	102.661 %	0.072 ppb	0.410 ppb	114.616 %	1.064 ppb
Concentration RSD	6.8 %	10.2 %	1.6 %	3.7 %	6.1 %	3.1 %	4.7 %	5.6 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	17,501.394 ppb	105.986 %	107.830 %	0.106 ppb	6.203 ppb	96.949 %
Concentration per Run 1	17,526.424 ppb	96.851 %	98.974 %	0.095 ppb	6.299 ppb	87.693 %
Concentration per Run 2	17,667.243 ppb	108.513 %	108.964 %	0.111 ppb	6.161 ppb	98.822 %
Concentration per Run 3	17,310.516 ppb	112.596 %	115.552 %	0.110 ppb	6.150 ppb	104.331 %
Concentration RSD	1.0 %	7.7 %	7.7 %	8.6 %	1.3 %	8.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 101 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343073-01D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 7:53:29 PM Vial: 20

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.883 %	90.801 %	0.036 ppb	32,517.798 ppb	600.531 ppb	4,636.911 ppb	10,835.486 ppb	3,544.091 ppb	118.699 %
Concentration per Run 1	113.318 %	77.683 %	0.034 ppb	35,481.295 ppb	665.410 ppb	4,961.722 ppb	11,362.465 ppb	3,747.858 ppb	121.066 %
Concentration per Run 2	109.123 %	99.148 %	0.034 ppb	30,203.140 ppb	544.262 ppb	4,439.123 ppb	10,440.275 ppb	3,427.211 ppb	122.095 %
Concentration per Run 3	107.207 %	95.571 %	0.038 ppb	31,868.958 ppb	591.922 ppb	4,509.887 ppb	10,703.718 ppb	3,457.205 ppb	112.935 %
Concentration RSD	2.8 %	12.7 %	6.7 %	8.3 %	10.2 %	6.1 %	4.4 %	5.0 %	4.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.310 ppb	4.426 ppb	8.624 ppb	251.747 ppb	0.138 ppb	1.532 ppb	201.187 ppb	12,295.586 ppb	107.014 %
Concentration per Run 1	0.388 ppb	4.755 ppb	9.112 ppb	262.272 ppb	0.146 ppb	1.488 ppb	207.052 ppb	12,556.752 ppb	100.509 %
Concentration per Run 2	0.247 ppb	4.073 ppb	8.224 ppb	241.978 ppb	0.145 ppb	1.603 ppb	198.261 ppb	12,465.649 ppb	107.862 %
Concentration per Run 3	0.296 ppb	4.450 ppb	8.537 ppb	250.993 ppb	0.124 ppb	1.505 ppb	198.248 ppb	11,864.357 ppb	112.672 %
Concentration RSD	23.1 %	7.7 %	5.2 %	4.0 %	9.2 %	4.0 %	2.5 %	3.1 %	5.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.837 ppb	0.332 ppb	221.375 ppb	8.368 ppb	98.872 %	0.192 ppb	0.133 ppb	107.328 %	2.081 ppb
Concentration per Run 1	1.822 ppb	0.248 ppb	226.275 ppb	8.119 ppb	91.360 %	0.200 ppb	0.135 ppb	99.376 %	2.120 ppb
Concentration per Run 2	1.861 ppb	0.345 ppb	218.165 ppb	8.462 ppb	103.019 %	0.194 ppb	0.123 ppb	107.131 %	2.140 ppb
Concentration per Run 3	1.828 ppb	0.404 ppb	219.686 ppb	8.522 ppb	102.237 %	0.182 ppb	0.140 ppb	115.479 %	1.982 ppb
Concentration RSD	1.1 %	23.7 %	1.9 %	2.6 %	6.6 %	4.7 %	6.6 %	7.5 %	4.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	18,012.014 ppb	105.517 %	107.016 %	0.079 ppb	3.140 ppb	97.913 %
Concentration per Run 1	18,534.308 ppb	94.676 %	95.293 %	0.073 ppb	3.219 ppb	88.981 %
Concentration per Run 2	18,073.795 ppb	109.859 %	111.461 %	0.081 ppb	3.111 ppb	98.450 %
Concentration per Run 3	17,427.939 ppb	112.017 %	114.294 %	0.082 ppb	3.089 ppb	106.309 %
Concentration RSD	3.1 %	9.0 %	9.6 %	6.1 %	2.2 %	8.9 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 102 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343073-02D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 7:57:59 PM Vial: 21

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	115.546 %	97.956 %	0.060 ppb	42,215.734 ppb	781.370 ppb	6,567.359 ppb	14,075.817 ppb	4,535.974 ppb	134.386 %
Concentration per Run 1	117.528 %	106.814 %	0.069 ppb	38,835.023 ppb	731.601 ppb	6,022.151 ppb	13,063.973 ppb	4,172.681 ppb	150.095 %
Concentration per Run 2	116.773 %	95.571 %	0.061 ppb	41,975.890 ppb	768.844 ppb	6,672.016 ppb	14,596.797 ppb	4,652.340 ppb	130.093 %
Concentration per Run 3	112.337 %	91.482 %	0.050 ppb	45,836.288 ppb	843.666 ppb	7,007.912 ppb	14,566.681 ppb	4,782.899 ppb	122.970 %
Concentration RSD	2.4 %	8.1 %	15.7 %	8.3 %	7.3 %	7.6 %	6.2 %	7.1 %	10.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.507 ppb	10.680 ppb	10.278 ppb	390.762 ppb	0.102 ppb	1.274 ppb	171.051 ppb	15,977.892 ppb	119.210 %
Concentration per Run 1	0.418 ppb	10.102 ppb	10.047 ppb	386.158 ppb	0.095 ppb	1.134 ppb	173.315 ppb	15,959.964 ppb	111.957 %
Concentration per Run 2	0.547 ppb	10.434 ppb	9.930 ppb	376.789 ppb	0.110 ppb	1.181 ppb	162.504 ppb	15,512.652 ppb	123.129 %
Concentration per Run 3	0.554 ppb	11.505 ppb	10.859 ppb	409.338 ppb	0.100 ppb	1.507 ppb	177.335 ppb	16,461.060 ppb	122.543 %
Concentration RSD	15.2 %	6.9 %	4.9 %	4.3 %	7.7 %	15.9 %	4.5 %	3.0 %	5.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.558 ppb	0.390 ppb	294.550 ppb	6.081 ppb	106.293 %	0.114 ppb	0.567 ppb	115.467 %	1.934 ppb
Concentration per Run 1	2.493 ppb	0.391 ppb	295.734 ppb	6.050 ppb	100.782 %	0.111 ppb	0.573 ppb	107.704 %	1.973 ppb
Concentration per Run 2	2.542 ppb	0.439 ppb	289.270 ppb	6.223 ppb	108.974 %	0.120 ppb	0.551 ppb	116.994 %	1.902 ppb
Concentration per Run 3	2.640 ppb	0.340 ppb	298.646 ppb	5.971 ppb	109.123 %	0.111 ppb	0.576 ppb	121.703 %	1.925 ppb
Concentration RSD	2.9 %	12.7 %	1.6 %	2.1 %	4.5 %	4.2 %	2.5 %	6.2 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	24,664.524 ppb	113.134 %	113.468 %	0.086 ppb	5.716 ppb	104.973 %
Concentration per Run 1	24,885.181 ppb	104.895 %	104.029 %	0.079 ppb	5.772 ppb	95.106 %
Concentration per Run 2	24,679.261 ppb	115.153 %	116.135 %	0.095 ppb	5.704 ppb	105.647 %
Concentration per Run 3	24,429.129 ppb	119.353 %	120.240 %	0.083 ppb	5.671 ppb	114.167 %
Concentration RSD	0.9 %	6.6 %	7.4 %	9.1 %	0.9 %	9.1 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 103 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343084-01D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 8:02:29 PM Vial: 22

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	118.726 %	113.969 %	0.052 ppb	35,247.769 ppb	661.715 ppb	5,372.326 ppb	12,165.815 ppb	4,090.186 ppb	141.631 %
Concentration per Run 1	125.130 %	111.925 %	0.052 ppb	34,696.460 ppb	651.321 ppb	5,210.089 ppb	12,065.525 ppb	4,112.896 ppb	142.759 %
Concentration per Run 2	120.790 %	97.615 %	0.030 ppb	39,571.304 ppb	744.971 ppb	6,108.620 ppb	13,418.303 ppb	4,505.285 ppb	161.515 %
Concentration per Run 3	110.258 %	132.368 %	0.072 ppb	31,475.544 ppb	588.853 ppb	4,798.270 ppb	11,013.617 ppb	3,652.377 ppb	120.620 %
Concentration RSD	6.4 %	15.3 %	40.3 %	11.6 %	11.9 %	12.5 %	9.9 %	10.4 %	14.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.489 ppb	5.094 ppb	10.491 ppb	368.444 ppb	9.920 ppb	1.019 ppb	441.357 ppb	13,898.045 ppb	123.243 %
Concentration per Run 1	0.502 ppb	5.286 ppb	10.716 ppb	372.715 ppb	10.415 ppb	1.095 ppb	462.374 ppb	14,356.052 ppb	110.229 %
Concentration per Run 2	0.550 ppb	5.410 ppb	11.038 ppb	391.142 ppb	10.479 ppb	1.059 ppb	466.685 ppb	14,820.403 ppb	119.897 %
Concentration per Run 3	0.414 ppb	4.585 ppb	9.721 ppb	341.475 ppb	8.866 ppb	0.902 ppb	395.012 ppb	12,517.681 ppb	139.603 %
Concentration RSD	14.1 %	8.7 %	6.5 %	6.8 %	9.2 %	10.1 %	9.1 %	8.8 %	12.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.286 ppb	0.562 ppb	261.632 ppb	19.168 ppb	110.473 %	0.411 ppb	0.207 ppb	121.216 %	1.409 ppb
Concentration per Run 1	2.362 ppb	0.539 ppb	262.497 ppb	19.277 ppb	105.921 %	0.391 ppb	0.202 ppb	116.411 %	1.390 ppb
Concentration per Run 2	2.392 ppb	0.617 ppb	267.041 ppb	20.395 ppb	109.601 %	0.443 ppb	0.211 ppb	115.945 %	1.502 ppb
Concentration per Run 3	2.104 ppb	0.531 ppb	255.360 ppb	17.832 ppb	115.898 %	0.399 ppb	0.208 ppb	131.293 %	1.334 ppb
Concentration RSD	6.9 %	8.4 %	2.3 %	6.7 %	4.6 %	6.8 %	2.1 %	7.2 %	6.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	21,087.670 ppb	116.406 %	115.865 %	0.073 ppb	4.412 ppb	103.968 %
Concentration per Run 1	20,658.084 ppb	110.585 %	108.266 %	0.066 ppb	4.368 ppb	96.799 %
Concentration per Run 2	22,476.513 ppb	114.925 %	115.225 %	0.082 ppb	4.622 ppb	102.456 %
Concentration per Run 3	20,128.412 ppb	123.709 %	124.103 %	0.072 ppb	4.246 ppb	112.648 %
Concentration RSD	5.8 %	5.7 %	6.9 %	10.6 %	4.4 %	7.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 104 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343084-02D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 8:06:59 PM Vial: 23

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	121.133 %	111.414 %	0.037 ppb	32,271.779 ppb	582.212 ppb	5,008.817 ppb	11,459.544 ppb	3,610.865 ppb	131.078 %
Concentration per Run 1	124.585 %	102.215 %	0.031 ppb	34,099.642 ppb	596.492 ppb	5,263.542 ppb	12,050.931 ppb	3,751.313 ppb	131.893 %
Concentration per Run 2	121.157 %	115.503 %	0.044 ppb	29,813.199 ppb	561.668 ppb	4,810.425 ppb	11,120.306 ppb	3,442.426 ppb	133.482 %
Concentration per Run 3	117.656 %	116.525 %	0.035 ppb	32,902.496 ppb	588.476 ppb	4,952.483 ppb	11,207.396 ppb	3,638.856 ppb	127.858 %
Concentration RSD	2.9 %	7.2 %	17.9 %	6.9 %	3.1 %	4.6 %	4.5 %	4.3 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.409 ppb	8.693 ppb	8.392 ppb	310.930 ppb	0.086 ppb	1.018 ppb	135.669 ppb	13,166.084 ppb	115.503 %
Concentration per Run 1	0.472 ppb	8.686 ppb	8.453 ppb	309.431 ppb	0.084 ppb	0.992 ppb	137.566 ppb	13,168.168 ppb	110.584 %
Concentration per Run 2	0.355 ppb	8.204 ppb	7.940 ppb	299.110 ppb	0.096 ppb	0.953 ppb	134.086 ppb	13,013.570 ppb	115.851 %
Concentration per Run 3	0.401 ppb	9.189 ppb	8.783 ppb	324.250 ppb	0.080 ppb	1.109 ppb	135.356 ppb	13,316.515 ppb	120.074 %
Concentration RSD	14.5 %	5.7 %	5.1 %	4.1 %	9.8 %	8.0 %	1.3 %	1.2 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.227 ppb	0.432 ppb	239.725 ppb	4.787 ppb	103.190 %	0.101 ppb	0.425 ppb	110.000 %	1.136 ppb
Concentration per Run 1	2.213 ppb	0.431 ppb	238.823 ppb	4.576 ppb	93.410 %	0.102 ppb	0.413 ppb	101.584 %	1.134 ppb
Concentration per Run 2	2.255 ppb	0.406 ppb	235.075 ppb	5.011 ppb	105.247 %	0.100 ppb	0.445 ppb	107.461 %	1.169 ppb
Concentration per Run 3	2.214 ppb	0.459 ppb	245.277 ppb	4.775 ppb	110.912 %	0.100 ppb	0.417 ppb	120.955 %	1.106 ppb
Concentration RSD	1.1 %	6.2 %	2.2 %	4.5 %	8.7 %	0.9 %	4.2 %	9.0 %	2.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	20,121.426 ppb	106.412 %	106.612 %	0.071 ppb	4.797 ppb	96.938 %
Concentration per Run 1	20,342.425 ppb	95.710 %	94.424 %	0.066 ppb	4.882 ppb	85.275 %
Concentration per Run 2	20,280.111 ppb	106.519 %	107.506 %	0.071 ppb	4.714 ppb	96.646 %
Concentration per Run 3	19,741.740 ppb	117.008 %	117.906 %	0.075 ppb	4.795 ppb	108.892 %
Concentration RSD	1.6 %	10.0 %	11.0 %	6.5 %	1.8 %	12.2 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 105 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343088-01D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 8:11:30 PM Vial: 24

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	124.050 %	120.443 %	0.050 ppb	36,004.198 ppb	645.597 ppb	5,377.860 ppb	12,465.381 ppb	3,926.355 ppb	138.000 %
Concentration per Run 1	127.180 %	117.547 %	0.047 ppb	36,015.677 ppb	639.226 ppb	5,365.902 ppb	12,409.748 ppb	3,791.608 ppb	142.067 %
Concentration per Run 2	125.037 %	123.169 %	0.049 ppb	34,808.969 ppb	618.315 ppb	5,155.643 ppb	12,228.587 ppb	4,039.699 ppb	139.842 %
Concentration per Run 3	119.934 %	120.613 %	0.055 ppb	37,187.949 ppb	679.250 ppb	5,612.034 ppb	12,757.809 ppb	3,947.758 ppb	132.092 %
Concentration RSD	3.0 %	2.3 %	8.2 %	3.3 %	4.8 %	4.2 %	2.2 %	3.2 %	3.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.540 ppb	4.882 ppb	9.419 ppb	317.432 ppb	0.145 ppb	1.830 ppb	191.037 ppb	14,880.903 ppb	118.941 %
Concentration per Run 1	2.717 ppb	4.865 ppb	9.627 ppb	324.627 ppb	0.173 ppb	1.732 ppb	193.094 ppb	15,246.902 ppb	113.229 %
Concentration per Run 2	2.441 ppb	4.843 ppb	9.162 ppb	303.830 ppb	0.121 ppb	1.866 ppb	181.405 ppb	14,401.816 ppb	119.170 %
Concentration per Run 3	2.463 ppb	4.937 ppb	9.467 ppb	323.839 ppb	0.139 ppb	1.892 ppb	198.611 ppb	14,993.992 ppb	124.426 %
Concentration RSD	6.0 %	1.0 %	2.5 %	3.7 %	18.4 %	4.7 %	4.6 %	2.9 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.211 ppb	0.271 ppb	274.194 ppb	7.806 ppb	110.789 %	0.209 ppb	0.280 ppb	119.726 %	1.306 ppb
Concentration per Run 1	2.163 ppb	0.334 ppb	275.891 ppb	7.737 ppb	106.444 %	0.208 ppb	0.291 ppb	113.376 %	1.315 ppb
Concentration per Run 2	2.237 ppb	0.248 ppb	272.347 ppb	7.828 ppb	109.919 %	0.217 ppb	0.281 ppb	117.504 %	1.269 ppb
Concentration per Run 3	2.232 ppb	0.229 ppb	274.343 ppb	7.852 ppb	116.005 %	0.201 ppb	0.267 ppb	128.299 %	1.333 ppb
Concentration RSD	1.9 %	20.5 %	0.6 %	0.8 %	4.4 %	3.8 %	4.3 %	6.4 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	22,159.370 ppb	116.112 %	114.758 %	0.074 ppb	3.446 ppb	103.665 %
Concentration per Run 1	22,269.608 ppb	109.868 %	106.869 %	0.067 ppb	3.461 ppb	95.667 %
Concentration per Run 2	22,096.942 ppb	113.788 %	114.343 %	0.078 ppb	3.475 ppb	101.340 %
Concentration per Run 3	22,111.559 ppb	124.680 %	123.062 %	0.077 ppb	3.401 ppb	113.990 %
Concentration RSD	0.4 %	6.6 %	7.1 %	8.4 %	1.1 %	9.0 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 106 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343088-02D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 8:16:01 PM Vial: 25

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	126.364 %	105.963 %	0.037 ppb	39,484.695 ppb	720.632 ppb	5,939.384 ppb	12,957.987 ppb	4,102.619 ppb	138.170 %
Concentration per Run 1	129.448 %	101.192 %	0.028 ppb	39,773.099 ppb	735.419 ppb	5,925.556 ppb	12,823.321 ppb	3,984.782 ppb	141.399 %
Concentration per Run 2	127.267 %	100.170 %	0.047 ppb	41,626.532 ppb	759.197 ppb	6,503.139 ppb	14,017.373 ppb	4,365.378 ppb	139.545 %
Concentration per Run 3	122.377 %	116.525 %	0.037 ppb	37,054.453 ppb	667.282 ppb	5,389.458 ppb	12,033.267 ppb	3,957.699 ppb	133.568 %
Concentration RSD	2.9 %	8.6 %	25.4 %	5.8 %	6.6 %	9.4 %	7.7 %	5.6 %	3.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.185 ppb	7.134 ppb	9.645 ppb	332.735 ppb	0.122 ppb	1.935 ppb	88.191 ppb	14,494.560 ppb	127.859 %
Concentration per Run 1	2.311 ppb	7.330 ppb	9.972 ppb	349.914 ppb	0.145 ppb	1.951 ppb	93.675 ppb	15,086.671 ppb	117.593 %
Concentration per Run 2	2.189 ppb	7.055 ppb	9.890 ppb	325.401 ppb	0.101 ppb	1.844 ppb	83.729 ppb	14,230.019 ppb	136.077 %
Concentration per Run 3	2.056 ppb	7.017 ppb	9.072 ppb	322.890 ppb	0.120 ppb	2.011 ppb	87.168 ppb	14,166.989 ppb	129.908 %
Concentration RSD	5.8 %	2.4 %	5.2 %	4.5 %	17.9 %	4.4 %	5.7 %	3.5 %	7.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.122 ppb	0.303 ppb	264.852 ppb	2.203 ppb	112.393 %	0.073 ppb	0.264 ppb	120.745 %	1.544 ppb
Concentration per Run 1	2.188 ppb	0.339 ppb	273.520 ppb	2.232 ppb	105.212 %	0.076 ppb	0.272 ppb	112.021 %	1.605 ppb
Concentration per Run 2	2.099 ppb	0.296 ppb	269.880 ppb	2.200 ppb	119.305 %	0.069 ppb	0.254 ppb	131.294 %	1.479 ppb
Concentration per Run 3	2.079 ppb	0.272 ppb	251.155 ppb	2.176 ppb	112.661 %	0.073 ppb	0.267 ppb	118.918 %	1.548 ppb
Concentration RSD	2.7 %	11.3 %	4.5 %	1.3 %	6.3 %	4.7 %	3.5 %	8.1 %	4.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	22,051.968 ppb	117.274 %	117.198 %	0.071 ppb	4.913 ppb	107.220 %
Concentration per Run 1	22,832.483 ppb	108.442 %	107.173 %	0.074 ppb	5.053 ppb	96.971 %
Concentration per Run 2	21,954.569 ppb	123.202 %	124.871 %	0.070 ppb	4.809 ppb	111.778 %
Concentration per Run 3	21,368.851 ppb	120.179 %	119.549 %	0.069 ppb	4.878 ppb	112.913 %
Concentration RSD	3.3 %	6.6 %	7.7 %	3.6 %	2.6 %	8.3 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 107 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343096-01D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 8:20:30 PM Vial: 26

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	129.471 %	110.221 %	0.029 ppb	30,870.832 ppb	600.066 ppb	4,636.096 ppb	10,508.228 ppb	3,452.066 ppb	160.230 %
Concentration per Run 1	133.367 %	107.836 %	0.028 ppb	29,713.978 ppb	569.685 ppb	4,468.590 ppb	10,411.105 ppb	3,191.694 ppb	148.478 %
Concentration per Run 2	127.615 %	117.547 %	0.026 ppb	29,924.438 ppb	594.555 ppb	4,517.986 ppb	10,029.301 ppb	3,429.220 ppb	164.946 %
Concentration per Run 3	127.430 %	105.281 %	0.035 ppb	32,974.079 ppb	635.958 ppb	4,921.711 ppb	11,084.277 ppb	3,735.284 ppb	167.266 %
Concentration RSD	2.6 %	5.9 %	16.3 %	5.9 %	5.6 %	5.4 %	5.1 %	7.9 %	6.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.498 ppb	3.889 ppb	7.885 ppb	317.909 ppb	0.129 ppb	0.729 ppb	128.451 ppb	11,872.811 ppb	125.196 %
Concentration per Run 1	0.436 ppb	3.729 ppb	7.584 ppb	305.192 ppb	0.111 ppb	0.687 ppb	133.556 ppb	11,508.291 ppb	119.362 %
Concentration per Run 2	0.539 ppb	3.866 ppb	8.028 ppb	313.865 ppb	0.124 ppb	0.742 ppb	126.952 ppb	11,947.288 ppb	127.592 %
Concentration per Run 3	0.517 ppb	4.073 ppb	8.044 ppb	334.671 ppb	0.152 ppb	0.758 ppb	124.845 ppb	12,162.853 ppb	128.634 %
Concentration RSD	10.9 %	4.4 %	3.3 %	4.8 %	16.1 %	5.1 %	3.5 %	2.8 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.634 ppb	0.209 ppb	216.235 ppb	5.111 ppb	116.473 %	0.153 ppb	0.088 ppb	126.249 %	0.371 ppb
Concentration per Run 1	1.612 ppb	0.189 ppb	222.142 ppb	4.993 ppb	109.435 %	0.152 ppb	0.088 ppb	119.016 %	0.379 ppb
Concentration per Run 2	1.624 ppb	0.212 ppb	212.036 ppb	5.360 ppb	117.772 %	0.157 ppb	0.088 ppb	127.118 %	0.374 ppb
Concentration per Run 3	1.666 ppb	0.227 ppb	214.526 ppb	4.980 ppb	122.213 %	0.151 ppb	0.086 ppb	132.612 %	0.359 ppb
Concentration RSD	1.7 %	9.1 %	2.4 %	4.2 %	5.6 %	2.2 %	1.2 %	5.4 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	17,530.233 ppb	120.615 %	120.158 %	0.058 ppb	3.207 ppb	107.088 %
Concentration per Run 1	17,783.117 ppb	110.495 %	109.838 %	0.054 ppb	3.229 ppb	97.077 %
Concentration per Run 2	17,542.584 ppb	123.409 %	122.573 %	0.056 ppb	3.198 ppb	109.324 %
Concentration per Run 3	17,264.999 ppb	127.940 %	128.062 %	0.063 ppb	3.194 ppb	114.863 %
Concentration RSD	1.5 %	7.5 %	7.8 %	8.5 %	0.6 %	8.5 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 108 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343096-02D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 8:25:00 PM Vial: 27

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	130.739 %	112.095 %	0.039 ppb	36,260.430 ppb	656.247 ppb	5,515.799 ppb	12,124.362 ppb	3,805.693 ppb	145.741 %
Concentration per Run 1	133.999 %	118.058 %	0.041 ppb	34,370.882 ppb	612.429 ppb	5,243.289 ppb	11,674.588 ppb	3,611.485 ppb	149.578 %
Concentration per Run 2	132.106 %	104.770 %	0.040 ppb	37,933.603 ppb	700.777 ppb	5,655.203 ppb	12,609.287 ppb	3,971.751 ppb	145.264 %
Concentration per Run 3	126.111 %	113.458 %	0.035 ppb	36,476.806 ppb	655.533 ppb	5,648.904 ppb	12,089.210 ppb	3,833.844 ppb	142.382 %
Concentration RSD	3.1 %	6.0 %	8.5 %	4.9 %	6.7 %	4.3 %	3.9 %	4.8 %	2.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.374 ppb	8.620 ppb	8.523 ppb	275.716 ppb	0.072 ppb	0.774 ppb	67.788 ppb	13,926.021 ppb	125.606 %
Concentration per Run 1	0.331 ppb	5.469 ppb	8.590 ppb	267.164 ppb	0.067 ppb	0.722 ppb	67.071 ppb	13,928.542 ppb	123.597 %
Concentration per Run 2	0.426 ppb	14.517 ppb	8.488 ppb	278.122 ppb	0.080 ppb	0.795 ppb	68.311 ppb	13,890.759 ppb	122.642 %
Concentration per Run 3	0.364 ppb	5.874 ppb	8.492 ppb	281.863 ppb	0.068 ppb	0.804 ppb	67.982 ppb	13,958.763 ppb	130.580 %
Concentration RSD	12.9 %	59.3 %	0.7 %	2.8 %	9.9 %	5.8 %	0.9 %	0.2 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.957 ppb	0.246 ppb	251.663 ppb	2.318 ppb	117.206 %	0.095 ppb	0.367 ppb	123.289 %	0.551 ppb
Concentration per Run 1	1.920 ppb	0.203 ppb	250.917 ppb	2.360 ppb	114.948 %	0.097 ppb	0.365 ppb	119.317 %	0.584 ppb
Concentration per Run 2	2.047 ppb	0.289 ppb	254.781 ppb	2.248 ppb	114.490 %	0.090 ppb	0.356 ppb	123.209 %	0.540 ppb
Concentration per Run 3	1.904 ppb	0.244 ppb	249.289 ppb	2.347 ppb	122.179 %	0.097 ppb	0.378 ppb	127.342 %	0.529 ppb
Concentration RSD	4.0 %	17.5 %	1.1 %	2.6 %	3.7 %	4.0 %	3.0 %	3.3 %	5.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	20,621.206 ppb	119.699 %	119.223 %	0.063 ppb	4.405 ppb	107.554 %
Concentration per Run 1	20,748.908 ppb	113.113 %	110.973 %	0.061 ppb	4.432 ppb	99.470 %
Concentration per Run 2	20,355.448 ppb	118.135 %	117.404 %	0.066 ppb	4.383 ppb	108.620 %
Concentration per Run 3	20,759.262 ppb	127.848 %	129.292 %	0.063 ppb	4.400 ppb	114.572 %
Concentration RSD	1.1 %	6.3 %	7.8 %	3.8 %	0.6 %	7.1 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 109 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343100-01D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 8:29:30 PM Vial: 28

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	130.207 %	116.184 %	0.042 ppb	35,335.576 ppb	742.504 ppb	5,717.790 ppb	11,951.346 ppb	3,963.068 ppb	151.830 %
Concentration per Run 1	134.942 %	108.348 %	0.036 ppb	35,744.159 ppb	739.201 ppb	5,787.893 ppb	12,136.653 ppb	4,023.767 ppb	175.061 %
Concentration per Run 2	128.907 %	112.947 %	0.048 ppb	36,910.108 ppb	786.283 ppb	5,824.505 ppb	12,092.678 ppb	4,040.665 ppb	139.937 %
Concentration per Run 3	126.774 %	127.257 %	0.044 ppb	33,352.461 ppb	702.027 ppb	5,540.974 ppb	11,624.706 ppb	3,824.771 ppb	140.492 %
Concentration RSD	3.3 %	8.5 %	14.7 %	5.1 %	5.7 %	2.7 %	2.4 %	3.0 %	13.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.688 ppb	4.557 ppb	11.610 ppb	514.508 ppb	0.239 ppb	1.037 ppb	329.083 ppb	13,865.161 ppb	128.839 %
Concentration per Run 1	0.604 ppb	4.441 ppb	11.624 ppb	512.084 ppb	0.256 ppb	0.958 ppb	329.078 ppb	13,880.949 ppb	124.500 %
Concentration per Run 2	0.858 ppb	4.771 ppb	12.468 ppb	541.581 ppb	0.217 ppb	1.000 ppb	340.636 ppb	14,056.807 ppb	128.763 %
Concentration per Run 3	0.601 ppb	4.458 ppb	10.738 ppb	489.858 ppb	0.244 ppb	1.152 ppb	317.535 ppb	13,657.727 ppb	133.253 %
Concentration RSD	21.4 %	4.1 %	7.4 %	5.0 %	8.3 %	9.8 %	3.5 %	1.4 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.292 ppb	0.410 ppb	253.922 ppb	14.925 ppb	115.488 %	0.301 ppb	0.131 ppb	123.526 %	1.093 ppb
Concentration per Run 1	2.359 ppb	0.450 ppb	251.930 ppb	14.740 ppb	111.033 %	0.305 ppb	0.134 ppb	114.955 %	1.103 ppb
Concentration per Run 2	2.257 ppb	0.408 ppb	257.529 ppb	15.102 ppb	115.905 %	0.297 ppb	0.131 ppb	127.401 %	1.084 ppb
Concentration per Run 3	2.261 ppb	0.372 ppb	252.306 ppb	14.933 ppb	119.527 %	0.301 ppb	0.128 ppb	128.222 %	1.092 ppb
Concentration RSD	2.5 %	9.5 %	1.2 %	1.2 %	3.7 %	1.2 %	2.5 %	6.0 %	0.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	21,023.642 ppb	118.551 %	117.482 %	0.062 ppb	6.259 ppb	107.265 %
Concentration per Run 1	21,310.014 ppb	111.649 %	108.416 %	0.063 ppb	6.270 ppb	98.922 %
Concentration per Run 2	20,973.448 ppb	118.353 %	120.075 %	0.059 ppb	6.272 ppb	109.398 %
Concentration per Run 3	20,787.464 ppb	125.650 %	123.954 %	0.064 ppb	6.234 ppb	113.476 %
Concentration RSD	1.3 %	5.9 %	6.9 %	3.6 %	0.3 %	7.0 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 110 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: CCV Rack: 0
 Analysis started at: 8/1/2023 8:33:59 PM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	124.747 %	118.399 %	54.890 ppb	5,829.429 ppb	5,840.873 ppb	62.390 ppb	5,617.497 ppb	4,943.056 ppb	138.312 %
Concentration per Run 1	127.947 %	114.480 %	55.258 ppb	5,707.817 ppb	5,856.403 ppb	63.042 ppb	5,772.604 ppb	4,784.995 ppb	144.723 %
Concentration per Run 2	126.110 %	126.746 %	54.228 ppb	5,771.692 ppb	5,631.410 ppb	61.483 ppb	5,710.922 ppb	5,047.141 ppb	138.563 %
Concentration per Run 3	120.183 %	113.969 %	55.183 ppb	6,008.779 ppb	6,034.805 ppb	62.644 ppb	5,368.965 ppb	4,997.034 ppb	131.652 %
Recovery Percentage 1			91.483 %	97.157 %	97.348 %	103.983 %	93.625 %	82.384 %	
Concentration RSD	3.3 %	6.1 %	1.0 %	2.7 %	3.5 %	1.3 %	3.9 %	2.8 %	4.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	54.752 ppb	57.091 ppb	60.565 ppb	6,129.196 ppb	61.829 ppb	62.044 ppb	61.418 ppb	60.108 ppb	113.998 %
Concentration per Run 1	53.430 ppb	57.776 ppb	59.863 ppb	6,277.396 ppb	63.390 ppb	64.208 ppb	63.619 ppb	62.213 ppb	108.653 %
Concentration per Run 2	56.022 ppb	56.507 ppb	60.694 ppb	6,007.653 ppb	59.466 ppb	58.254 ppb	58.601 ppb	58.121 ppb	118.941 %
Concentration per Run 3	54.806 ppb	56.991 ppb	61.137 ppb	6,102.539 ppb	62.632 ppb	63.671 ppb	62.033 ppb	59.991 ppb	114.401 %
Recovery Percentage 1	91.254 %	95.152 %	100.941 %	102.153 %	103.049 %	103.407 %	102.363 %	100.180 %	
Concentration RSD	2.4 %	1.1 %	1.1 %	2.2 %	3.4 %	5.3 %	4.2 %	3.4 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.797 ppb	55.937 ppb	55.700 ppb	56.313 ppb	116.341 %	55.805 ppb	54.855 ppb	116.060 %	55.063 ppb
Concentration per Run 1	59.318 ppb	53.583 ppb	56.476 ppb	57.096 ppb	114.048 %	55.963 ppb	54.919 ppb	112.009 %	55.410 ppb
Concentration per Run 2	59.428 ppb	58.966 ppb	55.104 ppb	54.953 ppb	117.166 %	55.872 ppb	55.004 ppb	117.157 %	54.564 ppb
Concentration per Run 3	57.644 ppb	55.261 ppb	55.521 ppb	56.889 ppb	117.809 %	55.578 ppb	54.642 ppb	119.015 %	55.214 ppb
Recovery Percentage 1	97.994 %	93.228 %	92.834 %	93.854 %		93.008 %	91.425 %		91.771 %
Concentration RSD	1.7 %	4.9 %	1.3 %	2.1 %	1.7 %	0.4 %	0.3 %	3.1 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	56.790 ppb	119.255 %	118.348 %	55.051 ppb	56.822 ppb	111.587 %
Concentration per Run 1	57.440 ppb	113.563 %	112.690 %	54.714 ppb	56.967 ppb	104.335 %
Concentration per Run 2	56.091 ppb	120.383 %	117.664 %	55.525 ppb	56.731 ppb	113.142 %
Concentration per Run 3	56.840 ppb	123.819 %	124.691 %	54.915 ppb	56.768 ppb	117.283 %
Recovery Percentage 1	94.651 %			91.752 %	94.703 %	
Concentration RSD	1.2 %	4.4 %	5.1 %	0.8 %	0.2 %	5.9 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 111 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/1/2023 8:38:32 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	128.458 %	125.724 %	-0.017 ppb	-3.698 ppb	0.034 ppb	0.246 ppb	-6.322 ppb	-5.592 ppb	131.613 %
Concentration per Run 1	133.143 %	119.080 %	-0.015 ppb	-3.859 ppb	-0.071 ppb	0.198 ppb	-7.251 ppb	-3.664 ppb	141.567 %
Concentration per Run 2	131.377 %	129.813 %	-0.015 ppb	-4.915 ppb	0.085 ppb	0.375 ppb	-8.036 ppb	-5.965 ppb	134.411 %
Concentration per Run 3	120.854 %	128.280 %	-0.021 ppb	-2.319 ppb	0.087 ppb	0.165 ppb	-3.680 ppb	-7.146 ppb	118.860 %
Recovery Percentage 1			-3.452 %	-3.698 %	0.048 %	2.458 %	-6.322 %	-5.592 %	
Concentration RSD	5.2 %	4.6 %	20.4 %	35.3 %	268.4 %	45.9 %	36.7 %	31.7 %	8.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.049 ppb	-0.001 ppb	-0.063 ppb	4.720 ppb	-0.026 ppb	-0.009 ppb	0.027 ppb	-0.788 ppb	115.773 %
Concentration per Run 1	0.036 ppb	0.000 ppb	-0.065 ppb	5.205 ppb	-0.031 ppb	-0.001 ppb	0.037 ppb	-0.780 ppb	111.855 %
Concentration per Run 2	0.064 ppb	-0.004 ppb	-0.062 ppb	4.657 ppb	-0.026 ppb	-0.029 ppb	0.019 ppb	-0.771 ppb	116.180 %
Concentration per Run 3	0.047 ppb	0.000 ppb	-0.063 ppb	4.299 ppb	-0.021 ppb	0.002 ppb	0.023 ppb	-0.814 ppb	119.284 %
Recovery Percentage 1	0.985 %	-0.127 %	-6.300 %	9.441 %	-5.190 %	-0.452 %	2.656 %	-15.767 %	
Concentration RSD	28.7 %	208.2 %	2.3 %	9.7 %	19.5 %	190.3 %	36.1 %	2.9 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.004 ppb	0.028 ppb	-0.002 ppb	0.104 ppb	118.854 %	0.008 ppb	0.001 ppb	115.493 %	0.009 ppb
Concentration per Run 1	-0.010 ppb	0.026 ppb	-0.003 ppb	0.115 ppb	113.639 %	0.011 ppb	0.001 ppb	109.130 %	0.008 ppb
Concentration per Run 2	-0.005 ppb	0.026 ppb	-0.002 ppb	0.102 ppb	119.791 %	0.007 ppb	0.001 ppb	118.321 %	0.012 ppb
Concentration per Run 3	0.002 ppb	0.031 ppb	-0.002 ppb	0.096 ppb	123.131 %	0.005 ppb	0.000 ppb	119.028 %	0.008 ppb
Recovery Percentage 1	-0.848 %	0.556 %	-0.023 %	5.206 %		1.936 %	0.324 %		0.231 %
Concentration RSD	146.6 %	10.7 %	21.2 %	9.1 %	4.1 %	37.0 %	68.2 %	4.8 %	27.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.473 ppb	118.380 %	117.512 %	0.167 ppb	0.002 ppb	119.116 %
Concentration per Run 1	1.351 ppb	111.932 %	110.486 %	0.176 ppb	0.004 ppb	109.623 %
Concentration per Run 2	0.036 ppb	118.776 %	119.069 %	0.187 ppb	0.002 ppb	121.335 %
Concentration per Run 3	0.031 ppb	124.431 %	122.980 %	0.139 ppb	0.000 ppb	126.390 %
Recovery Percentage 1	94.539 %			16.742 %	0.172 %	
Concentration RSD	160.9 %	5.3 %	5.4 %	15.0 %	113.4 %	7.2 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 112 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343100-02D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 8:43:05 PM Vial: 29

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	127.514 %	120.102 %	0.043 ppb	34,713.239 ppb	650.341 ppb	5,288.870 ppb	11,650.411 ppb	3,675.468 ppb	137.336 %
Concentration per Run 1	135.664 %	113.458 %	0.035 ppb	35,662.243 ppb	663.373 ppb	5,373.136 ppb	11,708.558 ppb	3,567.529 ppb	148.700 %
Concentration per Run 2	127.071 %	116.525 %	0.048 ppb	35,101.426 ppb	663.347 ppb	5,451.656 ppb	12,213.879 ppb	3,806.456 ppb	137.455 %
Concentration per Run 3	119.807 %	130.324 %	0.047 ppb	33,376.048 ppb	624.304 ppb	5,041.817 ppb	11,028.795 ppb	3,652.418 ppb	125.854 %
Concentration RSD	6.2 %	7.5 %	16.6 %	3.4 %	3.5 %	4.1 %	5.1 %	3.3 %	8.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.407 ppb	9.929 ppb	10.490 ppb	422.906 ppb	0.143 ppb	1.139 ppb	64.410 ppb	13,677.908 ppb	127.771 %
Concentration per Run 1	0.375 ppb	9.899 ppb	10.432 ppb	428.913 ppb	0.128 ppb	1.167 ppb	65.948 ppb	13,807.487 ppb	121.612 %
Concentration per Run 2	0.422 ppb	10.056 ppb	10.709 ppb	416.973 ppb	0.156 ppb	1.164 ppb	63.805 ppb	13,701.709 ppb	128.840 %
Concentration per Run 3	0.425 ppb	9.833 ppb	10.328 ppb	422.833 ppb	0.145 ppb	1.085 ppb	63.477 ppb	13,524.528 ppb	132.861 %
Concentration RSD	6.9 %	1.2 %	1.9 %	1.4 %	10.0 %	4.1 %	2.1 %	1.0 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.263 ppb	0.337 ppb	247.207 ppb	1.576 ppb	117.439 %	0.052 ppb	0.276 ppb	126.615 %	1.106 ppb
Concentration per Run 1	2.319 ppb	0.327 ppb	248.296 ppb	1.654 ppb	110.826 %	0.051 ppb	0.283 ppb	119.055 %	1.097 ppb
Concentration per Run 2	2.238 ppb	0.379 ppb	244.084 ppb	1.526 ppb	122.172 %	0.053 ppb	0.287 ppb	128.909 %	1.102 ppb
Concentration per Run 3	2.231 ppb	0.304 ppb	249.242 ppb	1.548 ppb	119.320 %	0.052 ppb	0.259 ppb	131.880 %	1.120 ppb
Concentration RSD	2.1 %	11.5 %	1.1 %	4.4 %	5.0 %	2.0 %	5.6 %	5.3 %	1.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	20,453.564 ppb	121.859 %	121.421 %	0.104 ppb	6.605 ppb	111.084 %
Concentration per Run 1	20,774.699 ppb	113.469 %	111.748 %	0.091 ppb	6.637 ppb	102.199 %
Concentration per Run 2	19,989.617 ppb	122.616 %	122.602 %	0.114 ppb	6.650 ppb	111.286 %
Concentration per Run 3	20,596.375 ppb	129.491 %	129.912 %	0.106 ppb	6.526 ppb	119.767 %
Concentration RSD	2.0 %	6.6 %	7.5 %	11.1 %	1.0 %	7.9 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 113 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343104-01D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 8:47:35 PM Vial: 30

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	133.552 %	113.288 %	0.063 ppb	47,426.082 ppb	1,032.161 ppb	8,057.751 ppb	15,534.882 ppb	4,787.558 ppb	162.853 %
Concentration per Run 1	139.539 %	112.436 %	0.063 ppb	45,703.695 ppb	996.940 ppb	7,621.237 ppb	14,707.283 ppb	4,730.840 ppb	176.559 %
Concentration per Run 2	131.590 %	105.281 %	0.066 ppb	50,717.926 ppb	1,114.817 ppb	8,620.095 ppb	16,095.135 ppb	4,848.153 ppb	144.348 %
Concentration per Run 3	129.526 %	122.147 %	0.061 ppb	45,856.626 ppb	984.727 ppb	7,931.923 ppb	15,802.229 ppb	4,783.683 ppb	167.652 %
Concentration RSD	4.0 %	7.5 %	4.2 %	6.0 %	7.0 %	6.3 %	4.7 %	1.2 %	10.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.945 ppb	7.098 ppb	16.464 ppb	694.607 ppb	0.342 ppb	1.527 ppb	330.789 ppb	17,615.554 ppb	129.926 %
Concentration per Run 1	1.008 ppb	7.541 ppb	16.647 ppb	703.792 ppb	0.342 ppb	1.574 ppb	336.031 ppb	17,815.641 ppb	115.608 %
Concentration per Run 2	0.886 ppb	6.836 ppb	16.842 ppb	696.450 ppb	0.353 ppb	1.526 ppb	333.210 ppb	17,714.012 ppb	137.910 %
Concentration per Run 3	0.940 ppb	6.917 ppb	15.902 ppb	683.578 ppb	0.331 ppb	1.480 ppb	323.127 ppb	17,317.010 ppb	136.259 %
Concentration RSD	6.4 %	5.4 %	3.0 %	1.5 %	3.2 %	3.1 %	2.1 %	1.5 %	9.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.781 ppb	0.471 ppb	341.518 ppb	14.803 ppb	114.929 %	0.338 ppb	0.157 ppb	126.983 %	1.047 ppb
Concentration per Run 1	2.803 ppb	0.480 ppb	341.440 ppb	14.910 ppb	104.238 %	0.352 ppb	0.164 ppb	111.752 %	1.052 ppb
Concentration per Run 2	2.702 ppb	0.476 ppb	332.931 ppb	15.084 ppb	117.215 %	0.339 ppb	0.151 ppb	127.754 %	1.065 ppb
Concentration per Run 3	2.837 ppb	0.456 ppb	350.182 ppb	14.415 ppb	123.333 %	0.325 ppb	0.156 ppb	141.443 %	1.023 ppb
Concentration RSD	2.5 %	2.7 %	2.5 %	2.3 %	8.5 %	4.0 %	4.1 %	11.7 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	27,691.274 ppb	119.233 %	118.646 %	0.099 ppb	7.284 ppb	106.596 %
Concentration per Run 1	27,991.571 ppb	104.982 %	103.587 %	0.096 ppb	7.387 ppb	94.176 %
Concentration per Run 2	27,842.921 ppb	122.126 %	120.390 %	0.097 ppb	7.245 ppb	111.259 %
Concentration per Run 3	27,239.331 ppb	130.592 %	131.961 %	0.104 ppb	7.219 ppb	114.352 %
Concentration RSD	1.4 %	10.9 %	12.0 %	4.2 %	1.2 %	10.2 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 114 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343104-02D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 8:52:04 PM Vial: 31

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	132.821 %	108.859 %	0.069 ppb	47,325.324 ppb	974.223 ppb	7,911.829 ppb	15,039.350 ppb	4,779.492 ppb	149.048 %
Concentration per Run 1	137.231 %	108.348 %	0.062 ppb	46,733.161 ppb	970.776 ppb	7,932.361 ppb	15,253.622 ppb	4,532.736 ppb	156.118 %
Concentration per Run 2	130.899 %	104.259 %	0.080 ppb	48,714.451 ppb	1,002.727 ppb	7,988.528 ppb	14,863.543 ppb	4,872.111 ppb	146.023 %
Concentration per Run 3	130.332 %	113.969 %	0.065 ppb	46,528.360 ppb	949.167 ppb	7,814.597 ppb	15,000.887 ppb	4,933.630 ppb	145.004 %
Concentration RSD	2.9 %	4.5 %	14.0 %	2.6 %	2.8 %	1.1 %	1.3 %	4.5 %	4.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.795 ppb	11.741 ppb	17.397 ppb	674.550 ppb	0.264 ppb	1.625 ppb	57.844 ppb	17,317.452 ppb	128.345 %
Concentration per Run 1	0.751 ppb	11.648 ppb	17.259 ppb	669.077 ppb	0.259 ppb	1.614 ppb	58.636 ppb	17,528.368 ppb	121.985 %
Concentration per Run 2	0.848 ppb	12.326 ppb	17.706 ppb	713.055 ppb	0.269 ppb	1.693 ppb	59.729 ppb	17,793.338 ppb	122.187 %
Concentration per Run 3	0.785 ppb	11.248 ppb	17.224 ppb	641.519 ppb	0.264 ppb	1.568 ppb	55.168 ppb	16,630.650 ppb	140.862 %
Concentration RSD	6.2 %	4.6 %	1.5 %	5.3 %	1.9 %	3.9 %	4.1 %	3.5 %	8.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.743 ppb	0.462 ppb	326.138 ppb	1.751 ppb	115.444 %	0.079 ppb	0.177 ppb	127.487 %	0.918 ppb
Concentration per Run 1	2.767 ppb	0.594 ppb	339.099 ppb	2.042 ppb	114.346 %	0.077 ppb	0.168 ppb	127.521 %	0.902 ppb
Concentration per Run 2	2.813 ppb	0.399 ppb	326.851 ppb	1.598 ppb	110.959 %	0.086 ppb	0.183 ppb	122.069 %	0.938 ppb
Concentration per Run 3	2.648 ppb	0.394 ppb	312.463 ppb	1.612 ppb	121.029 %	0.072 ppb	0.179 ppb	132.869 %	0.913 ppb
Concentration RSD	3.1 %	24.8 %	4.1 %	14.4 %	4.4 %	9.0 %	4.3 %	4.2 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	26,328.497 ppb	119.989 %	120.340 %	0.084 ppb	9.467 ppb	108.057 %
Concentration per Run 1	26,422.983 ppb	115.106 %	115.560 %	0.080 ppb	9.485 ppb	102.132 %
Concentration per Run 2	26,418.559 ppb	117.306 %	115.620 %	0.082 ppb	9.341 ppb	106.878 %
Concentration per Run 3	26,143.950 ppb	127.554 %	129.841 %	0.092 ppb	9.576 ppb	115.162 %
Concentration RSD	0.6 %	5.5 %	6.8 %	7.7 %	1.2 %	6.1 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 115 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343110-01D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 8:56:34 PM Vial: 32

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	130.411 %	120.954 %	0.043 ppb	30,365.555 ppb	640.922 ppb	4,551.133 ppb	10,128.857 ppb	3,465.250 ppb	144.779 %
Concentration per Run 1	135.190 %	129.302 %	0.046 ppb	29,061.303 ppb	614.208 ppb	4,433.161 ppb	9,928.312 ppb	3,476.912 ppb	151.623 %
Concentration per Run 2	130.044 %	120.613 %	0.050 ppb	31,294.339 ppb	670.438 ppb	4,619.700 ppb	10,444.920 ppb	3,389.228 ppb	141.683 %
Concentration per Run 3	126.000 %	112.947 %	0.034 ppb	30,741.023 ppb	638.118 ppb	4,600.537 ppb	10,013.340 ppb	3,529.611 ppb	141.032 %
Concentration RSD	3.5 %	6.8 %	19.2 %	3.8 %	4.4 %	2.3 %	2.7 %	2.0 %	4.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.526 ppb	4.809 ppb	11.586 ppb	575.513 ppb	0.222 ppb	1.687 ppb	68.300 ppb	12,231.860 ppb	124.336 %
Concentration per Run 1	0.502 ppb	4.795 ppb	11.240 ppb	572.562 ppb	0.225 ppb	1.737 ppb	69.769 ppb	12,769.783 ppb	117.898 %
Concentration per Run 2	0.560 ppb	4.939 ppb	11.908 ppb	588.451 ppb	0.199 ppb	1.635 ppb	66.590 ppb	11,869.522 ppb	130.303 %
Concentration per Run 3	0.517 ppb	4.692 ppb	11.611 ppb	565.526 ppb	0.243 ppb	1.689 ppb	68.542 ppb	12,056.276 ppb	124.806 %
Concentration RSD	5.6 %	2.6 %	2.9 %	2.0 %	10.1 %	3.0 %	2.3 %	3.9 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.016 ppb	0.341 ppb	225.727 ppb	2.952 ppb	115.366 %	0.071 ppb	0.112 ppb	122.661 %	2.134 ppb
Concentration per Run 1	2.076 ppb	0.387 ppb	227.875 ppb	2.927 ppb	114.664 %	0.067 ppb	0.118 ppb	116.133 %	2.182 ppb
Concentration per Run 2	2.048 ppb	0.339 ppb	237.052 ppb	3.036 ppb	116.647 %	0.074 ppb	0.117 ppb	133.329 %	2.114 ppb
Concentration per Run 3	1.923 ppb	0.297 ppb	212.254 ppb	2.892 ppb	114.787 %	0.070 ppb	0.100 ppb	118.521 %	2.106 ppb
Concentration RSD	4.0 %	13.1 %	5.6 %	2.5 %	1.0 %	4.8 %	9.2 %	7.6 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	18,606.265 ppb	118.966 %	119.227 %	0.066 ppb	6.949 ppb	108.549 %
Concentration per Run 1	18,814.898 ppb	114.556 %	112.633 %	0.067 ppb	7.035 ppb	102.324 %
Concentration per Run 2	18,607.373 ppb	123.776 %	126.804 %	0.064 ppb	6.880 ppb	114.167 %
Concentration per Run 3	18,396.525 ppb	118.567 %	118.243 %	0.068 ppb	6.932 ppb	109.155 %
Concentration RSD	1.1 %	3.9 %	6.0 %	2.9 %	1.1 %	5.5 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 116 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343110-02D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 9:01:04 PM Vial: 33

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	133.952 %	118.910 %	0.038 ppb	33,131.053 ppb	654.024 ppb	5,196.591 ppb	11,319.248 ppb	3,676.496 ppb	150.374 %
Concentration per Run 1	136.864 %	119.591 %	0.054 ppb	32,547.905 ppb	645.688 ppb	5,219.623 ppb	11,574.268 ppb	3,695.501 ppb	154.636 %
Concentration per Run 2	135.094 %	110.903 %	0.034 ppb	35,196.610 ppb	686.984 ppb	5,356.227 ppb	11,696.135 ppb	3,877.087 ppb	148.590 %
Concentration per Run 3	129.898 %	126.235 %	0.026 ppb	31,648.645 ppb	629.399 ppb	5,013.923 ppb	10,687.341 ppb	3,456.901 ppb	147.897 %
Concentration RSD	2.7 %	6.5 %	38.6 %	5.6 %	4.5 %	3.3 %	4.9 %	5.7 %	2.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.450 ppb	4.680 ppb	10.537 ppb	486.483 ppb	0.215 ppb	2.072 ppb	28.087 ppb	13,005.106 ppb	129.272 %
Concentration per Run 1	0.469 ppb	4.509 ppb	10.500 ppb	473.222 ppb	0.205 ppb	1.997 ppb	28.141 ppb	12,861.742 ppb	127.199 %
Concentration per Run 2	0.467 ppb	5.079 ppb	11.289 ppb	509.333 ppb	0.233 ppb	2.168 ppb	29.104 ppb	13,487.271 ppb	123.687 %
Concentration per Run 3	0.414 ppb	4.451 ppb	9.820 ppb	476.896 ppb	0.207 ppb	2.050 ppb	27.017 ppb	12,666.305 ppb	136.932 %
Concentration RSD	7.0 %	7.4 %	7.0 %	4.1 %	7.2 %	4.2 %	3.7 %	3.3 %	5.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.993 ppb	0.379 ppb	233.383 ppb	1.332 ppb	118.403 %	0.049 ppb	0.085 ppb	127.661 %	1.635 ppb
Concentration per Run 1	1.935 ppb	0.303 ppb	230.980 ppb	1.354 ppb	112.835 %	0.049 ppb	0.083 ppb	119.076 %	1.655 ppb
Concentration per Run 2	2.003 ppb	0.510 ppb	241.357 ppb	1.343 ppb	118.859 %	0.047 ppb	0.085 ppb	131.183 %	1.605 ppb
Concentration per Run 3	2.041 ppb	0.324 ppb	227.814 ppb	1.298 ppb	123.513 %	0.050 ppb	0.087 ppb	132.723 %	1.646 ppb
Concentration RSD	2.7 %	30.1 %	3.0 %	2.2 %	4.5 %	3.3 %	2.5 %	5.9 %	1.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	19,225.823 ppb	123.435 %	122.801 %	0.060 ppb	7.383 ppb	114.132 %
Concentration per Run 1	19,765.032 ppb	115.538 %	113.212 %	0.059 ppb	7.527 ppb	103.350 %
Concentration per Run 2	18,963.315 ppb	123.431 %	124.424 %	0.061 ppb	7.418 ppb	116.033 %
Concentration per Run 3	18,949.122 ppb	131.337 %	130.767 %	0.059 ppb	7.203 ppb	123.015 %
Concentration RSD	2.4 %	6.4 %	7.2 %	2.4 %	2.2 %	8.7 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 117 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343116-01D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 9:05:34 PM Vial: 34

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	133.537 %	116.184 %	0.034 ppb	30,189.586 ppb	584.101 ppb	4,456.626 ppb	10,061.669 ppb	3,263.380 ppb	163.841 %
Concentration per Run 1	136.161 %	106.814 %	0.029 ppb	32,043.538 ppb	627.209 ppb	4,632.151 ppb	10,437.209 ppb	3,342.757 ppb	169.859 %
Concentration per Run 2	134.140 %	122.147 %	0.037 ppb	28,242.899 ppb	541.612 ppb	4,318.971 ppb	9,806.593 ppb	3,215.205 ppb	178.927 %
Concentration per Run 3	130.310 %	119.591 %	0.037 ppb	30,282.320 ppb	583.482 ppb	4,418.756 ppb	9,941.205 ppb	3,232.178 ppb	142.738 %
Concentration RSD	2.2 %	7.1 %	13.6 %	6.3 %	7.3 %	3.6 %	3.3 %	2.1 %	11.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.468 ppb	4.208 ppb	8.370 ppb	344.787 ppb	0.181 ppb	0.775 ppb	195.647 ppb	11,603.796 ppb	127.837 %
Concentration per Run 1	0.503 ppb	4.409 ppb	9.081 ppb	375.260 ppb	0.207 ppb	0.872 ppb	208.179 ppb	12,095.158 ppb	120.226 %
Concentration per Run 2	0.458 ppb	4.034 ppb	7.597 ppb	322.238 ppb	0.162 ppb	0.746 ppb	187.033 ppb	11,342.220 ppb	130.874 %
Concentration per Run 3	0.443 ppb	4.183 ppb	8.433 ppb	336.862 ppb	0.174 ppb	0.706 ppb	191.728 ppb	11,374.011 ppb	132.412 %
Concentration RSD	6.6 %	4.5 %	8.9 %	7.9 %	12.9 %	11.2 %	5.7 %	3.7 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.744 ppb	0.325 ppb	207.780 ppb	9.488 ppb	116.476 %	0.182 ppb	0.192 ppb	125.567 %	0.760 ppb
Concentration per Run 1	1.854 ppb	0.368 ppb	215.075 ppb	9.507 ppb	112.219 %	0.186 ppb	0.195 ppb	122.095 %	0.758 ppb
Concentration per Run 2	1.658 ppb	0.347 ppb	201.090 ppb	9.538 ppb	119.005 %	0.181 ppb	0.196 ppb	123.794 %	0.754 ppb
Concentration per Run 3	1.720 ppb	0.261 ppb	207.176 ppb	9.418 ppb	118.204 %	0.178 ppb	0.184 ppb	130.813 %	0.769 ppb
Concentration RSD	5.7 %	17.4 %	3.4 %	0.7 %	3.2 %	2.3 %	3.5 %	3.7 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	17,113.506 ppb	121.619 %	120.765 %	0.055 ppb	3.412 ppb	109.857 %
Concentration per Run 1	17,255.653 ppb	116.245 %	112.925 %	0.052 ppb	3.446 ppb	103.121 %
Concentration per Run 2	17,123.051 ppb	122.133 %	121.678 %	0.057 ppb	3.399 ppb	109.018 %
Concentration per Run 3	16,961.813 ppb	126.478 %	127.693 %	0.057 ppb	3.390 ppb	117.433 %
Concentration RSD	0.9 %	4.2 %	6.1 %	5.8 %	0.9 %	6.5 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 118 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343116-02D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 9:10:04 PM Vial: 35

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	136.391 %	124.021 %	0.044 ppb	39,752.392 ppb	775.974 ppb	6,200.034 ppb	13,097.295 ppb	3,955.267 ppb	168.994 %
Concentration per Run 1	139.242 %	119.591 %	0.045 ppb	39,862.256 ppb	762.031 ppb	6,232.485 ppb	12,944.147 ppb	3,886.991 ppb	154.620 %
Concentration per Run 2	138.029 %	119.591 %	0.034 ppb	41,271.317 ppb	810.706 ppb	6,324.614 ppb	13,519.927 ppb	4,013.634 ppb	182.390 %
Concentration per Run 3	131.903 %	132.879 %	0.054 ppb	38,123.601 ppb	755.186 ppb	6,043.005 ppb	12,827.812 ppb	3,965.178 ppb	169.972 %
Concentration RSD	2.9 %	6.2 %	23.0 %	4.0 %	3.9 %	2.3 %	2.8 %	1.6 %	8.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.475 ppb	8.743 ppb	11.202 ppb	424.619 ppb	0.186 ppb	1.165 ppb	125.291 ppb	15,578.503 ppb	134.296 %
Concentration per Run 1	0.511 ppb	8.685 ppb	11.162 ppb	419.157 ppb	0.193 ppb	1.197 ppb	141.489 ppb	15,831.345 ppb	126.728 %
Concentration per Run 2	0.463 ppb	8.991 ppb	11.195 ppb	432.088 ppb	0.183 ppb	1.160 ppb	118.761 ppb	15,806.299 ppb	132.870 %
Concentration per Run 3	0.449 ppb	8.552 ppb	11.248 ppb	422.613 ppb	0.183 ppb	1.137 ppb	115.623 ppb	15,097.864 ppb	143.290 %
Concentration RSD	6.8 %	2.6 %	0.4 %	1.6 %	2.9 %	2.6 %	11.3 %	2.7 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.436 ppb	0.290 ppb	288.039 ppb	3.160 ppb	119.843 %	0.067 ppb	0.727 ppb	130.457 %	0.771 ppb
Concentration per Run 1	2.455 ppb	0.335 ppb	290.184 ppb	3.301 ppb	115.035 %	0.071 ppb	0.730 ppb	121.191 %	0.816 ppb
Concentration per Run 2	2.471 ppb	0.286 ppb	292.974 ppb	3.128 ppb	120.022 %	0.068 ppb	0.743 ppb	133.155 %	0.742 ppb
Concentration per Run 3	2.382 ppb	0.249 ppb	280.959 ppb	3.051 ppb	124.473 %	0.062 ppb	0.708 ppb	137.025 %	0.756 ppb
Concentration RSD	1.9 %	14.9 %	2.2 %	4.0 %	3.9 %	6.4 %	2.4 %	6.3 %	5.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	23,885.936 ppb	125.123 %	124.700 %	0.071 ppb	7.447 ppb	114.698 %
Concentration per Run 1	24,172.584 ppb	116.768 %	114.905 %	0.067 ppb	7.450 ppb	105.077 %
Concentration per Run 2	23,994.143 ppb	126.552 %	127.800 %	0.074 ppb	7.575 ppb	115.075 %
Concentration per Run 3	23,491.082 ppb	132.049 %	131.395 %	0.071 ppb	7.318 ppb	123.942 %
Concentration RSD	1.5 %	6.2 %	7.0 %	5.0 %	1.7 %	8.2 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 119 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343118-01D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 9:14:35 PM Vial: 36

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	134.215 %	115.503 %	0.035 ppb	33,971.317 ppb	727.740 ppb	4,935.501 ppb	11,091.045 ppb	3,830.359 ppb	160.422 %
Concentration per Run 1	138.143 %	109.370 %	0.042 ppb	34,455.471 ppb	736.451 ppb	5,035.715 ppb	11,121.496 ppb	3,696.344 ppb	185.966 %
Concentration per Run 2	135.669 %	116.014 %	0.034 ppb	33,860.462 ppb	731.388 ppb	4,859.544 ppb	11,424.762 ppb	4,152.091 ppb	149.934 %
Concentration per Run 3	128.833 %	121.125 %	0.030 ppb	33,598.019 ppb	715.382 ppb	4,911.245 ppb	10,726.877 ppb	3,642.642 ppb	145.365 %
Concentration RSD	3.6 %	5.1 %	17.9 %	1.3 %	1.5 %	1.8 %	3.2 %	7.3 %	13.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.762 ppb	5.681 ppb	14.924 ppb	756.219 ppb	0.315 ppb	1.493 ppb	98.019 ppb	12,894.216 ppb	130.535 %
Concentration per Run 1	0.790 ppb	5.702 ppb	15.133 ppb	756.175 ppb	0.298 ppb	1.546 ppb	98.786 ppb	13,051.871 ppb	125.593 %
Concentration per Run 2	0.775 ppb	5.635 ppb	15.168 ppb	747.879 ppb	0.314 ppb	1.442 ppb	96.731 ppb	12,984.006 ppb	130.520 %
Concentration per Run 3	0.721 ppb	5.705 ppb	14.472 ppb	764.602 ppb	0.332 ppb	1.490 ppb	98.540 ppb	12,646.769 ppb	135.492 %
Concentration RSD	4.7 %	0.7 %	2.6 %	1.1 %	5.5 %	3.5 %	1.1 %	1.7 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.321 ppb	0.748 ppb	229.185 ppb	4.588 ppb	119.281 %	0.087 ppb	0.327 ppb	128.333 %	1.894 ppb
Concentration per Run 1	2.251 ppb	0.870 ppb	228.562 ppb	4.466 ppb	115.011 %	0.081 ppb	0.306 ppb	121.597 %	1.924 ppb
Concentration per Run 2	2.348 ppb	0.606 ppb	231.207 ppb	4.763 ppb	121.072 %	0.096 ppb	0.338 ppb	131.050 %	1.852 ppb
Concentration per Run 3	2.365 ppb	0.767 ppb	227.787 ppb	4.535 ppb	121.760 %	0.084 ppb	0.336 ppb	132.351 %	1.907 ppb
Concentration RSD	2.6 %	17.9 %	0.8 %	3.4 %	3.1 %	8.9 %	5.6 %	4.6 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	18,862.180 ppb	125.720 %	125.160 %	0.064 ppb	8.666 ppb	114.684 %
Concentration per Run 1	19,051.159 ppb	117.855 %	115.751 %	0.063 ppb	8.655 ppb	105.483 %
Concentration per Run 2	18,664.945 ppb	127.668 %	127.262 %	0.064 ppb	8.672 ppb	116.521 %
Concentration per Run 3	18,870.436 ppb	131.637 %	132.467 %	0.064 ppb	8.671 ppb	122.047 %
Concentration RSD	1.0 %	5.6 %	6.8 %	1.1 %	0.1 %	7.4 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 120 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343118-02D2 A2-6020T Rack: 2
 Analysis started at: 8/1/2023 9:19:06 PM Vial: 37

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	136.642 %	124.361 %	0.027 ppb	27,151.063 ppb	501.335 ppb	3,848.080 ppb	9,209.492 ppb	2,960.318 ppb	169.774 %
Concentration per Run 1	140.126 %	121.636 %	0.023 ppb	27,028.945 ppb	494.736 ppb	3,898.625 ppb	9,457.021 ppb	3,064.538 ppb	160.135 %
Concentration per Run 2	136.054 %	127.257 %	0.034 ppb	27,146.283 ppb	501.156 ppb	3,732.621 ppb	8,964.534 ppb	2,873.123 ppb	171.035 %
Concentration per Run 3	133.747 %	124.191 %	0.023 ppb	27,277.963 ppb	508.114 ppb	3,912.995 ppb	9,206.920 ppb	2,943.291 ppb	178.154 %
Concentration RSD	2.4 %	2.3 %	23.7 %	0.5 %	1.3 %	2.6 %	2.7 %	3.3 %	5.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.399 ppb	4.937 ppb	8.813 ppb	374.569 ppb	0.134 ppb	1.726 ppb	30.234 ppb	11,024.101 ppb	131.116 %
Concentration per Run 1	0.404 ppb	4.915 ppb	8.870 ppb	390.495 ppb	0.153 ppb	1.446 ppb	30.584 ppb	11,520.328 ppb	118.446 %
Concentration per Run 2	0.431 ppb	5.182 ppb	9.262 ppb	373.421 ppb	0.131 ppb	1.644 ppb	31.196 ppb	11,003.979 ppb	130.290 %
Concentration per Run 3	0.362 ppb	4.715 ppb	8.306 ppb	359.793 ppb	0.117 ppb	2.087 ppb	28.924 ppb	10,547.998 ppb	144.613 %
Concentration RSD	8.7 %	4.8 %	5.5 %	4.1 %	13.8 %	19.0 %	3.9 %	4.4 %	10.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.662 ppb	0.414 ppb	193.641 ppb	1.438 ppb	119.522 %	0.057 ppb	0.107 ppb	124.239 %	1.148 ppb
Concentration per Run 1	1.734 ppb	0.383 ppb	198.596 ppb	1.463 ppb	114.234 %	0.056 ppb	0.106 ppb	116.514 %	1.163 ppb
Concentration per Run 2	1.681 ppb	0.409 ppb	196.106 ppb	1.430 ppb	119.260 %	0.057 ppb	0.117 ppb	128.568 %	1.108 ppb
Concentration per Run 3	1.569 ppb	0.452 ppb	186.221 ppb	1.420 ppb	125.072 %	0.058 ppb	0.098 ppb	127.634 %	1.172 ppb
Concentration RSD	5.1 %	8.4 %	3.4 %	1.6 %	4.5 %	1.5 %	8.9 %	5.4 %	3.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	16,301.917 ppb	122.599 %	122.522 %	0.053 ppb	10.117 ppb	111.899 %
Concentration per Run 1	16,289.407 ppb	113.773 %	111.733 %	0.056 ppb	10.241 ppb	100.652 %
Concentration per Run 2	15,965.588 ppb	123.906 %	124.563 %	0.051 ppb	10.050 ppb	115.172 %
Concentration per Run 3	16,650.756 ppb	130.118 %	131.271 %	0.054 ppb	10.060 ppb	119.874 %
Concentration RSD	2.1 %	6.7 %	8.1 %	4.8 %	1.1 %	9.0 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 121 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/1/2023 9:23:36 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	126.623 %	120.443 %	55.278 ppb	5,539.404 ppb	5,687.103 ppb	60.573 ppb	5,537.406 ppb	4,714.738 ppb	133.390 %
Concentration per Run 1	130.428 %	116.525 %	55.863 ppb	5,870.761 ppb	6,000.044 ppb	64.414 ppb	5,930.720 ppb	4,907.220 ppb	137.372 %
Concentration per Run 2	125.092 %	117.036 %	54.570 ppb	5,490.854 ppb	5,599.250 ppb	60.258 ppb	5,230.230 ppb	4,662.418 ppb	133.555 %
Concentration per Run 3	124.350 %	127.769 %	55.402 ppb	5,256.598 ppb	5,462.013 ppb	57.047 ppb	5,451.270 ppb	4,574.576 ppb	129.243 %
Recovery Percentage 1			92.131 %	92.323 %	94.785 %	100.955 %	92.290 %	78.579 %	
Concentration RSD	2.6 %	5.3 %	1.2 %	5.6 %	4.9 %	6.1 %	6.5 %	3.7 %	3.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	52.006 ppb	56.444 ppb	60.239 ppb	5,988.059 ppb	61.584 ppb	61.814 ppb	61.635 ppb	58.731 ppb	116.358 %
Concentration per Run 1	53.992 ppb	58.519 ppb	63.032 ppb	6,185.267 ppb	58.519 ppb	65.317 ppb	64.053 ppb	61.076 ppb	111.673 %
Concentration per Run 2	50.183 ppb	54.668 ppb	58.390 ppb	5,796.837 ppb	59.230 ppb	59.832 ppb	59.030 ppb	57.618 ppb	122.025 %
Concentration per Run 3	51.843 ppb	56.146 ppb	59.293 ppb	5,982.072 ppb	60.206 ppb	61.706 ppb	61.823 ppb	57.499 ppb	115.376 %
Recovery Percentage 1	86.677 %	94.074 %	100.398 %	99.801 %	102.641 %	103.023 %	102.725 %	97.885 %	
Concentration RSD	3.7 %	3.4 %	4.1 %	3.2 %	5.3 %	3.3 %	4.1 %	3.5 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.510 ppb	56.908 ppb	55.710 ppb	56.514 ppb	115.618 %	57.145 ppb	56.164 ppb	115.086 %	55.999 ppb
Concentration per Run 1	61.119 ppb	60.739 ppb	58.858 ppb	57.915 ppb	107.760 %	58.790 ppb	57.477 ppb	107.058 %	58.405 ppb
Concentration per Run 2	56.071 ppb	54.063 ppb	53.319 ppb	55.240 ppb	121.447 %	56.400 ppb	55.500 ppb	119.239 %	54.531 ppb
Concentration per Run 3	58.341 ppb	55.922 ppb	54.952 ppb	56.388 ppb	117.648 %	56.245 ppb	55.517 ppb	118.961 %	55.060 ppb
Recovery Percentage 1	97.517 %	94.847 %	92.849 %	94.191 %		95.242 %	93.607 %		93.331 %
Concentration RSD	4.3 %	6.1 %	5.1 %	2.4 %	6.1 %	2.5 %	2.0 %	6.0 %	3.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	57.620 ppb	117.639 %	117.368 %	55.504 ppb	57.165 ppb	112.536 %
Concentration per Run 1	60.148 ppb	107.269 %	106.226 %	55.893 ppb	58.577 ppb	102.173 %
Concentration per Run 2	56.054 ppb	121.857 %	122.240 %	55.100 ppb	56.269 ppb	116.133 %
Concentration per Run 3	56.657 ppb	123.790 %	123.638 %	55.519 ppb	56.649 ppb	119.300 %
Recovery Percentage 1	96.033 %			92.506 %	95.275 %	
Concentration RSD	3.8 %	7.7 %	8.2 %	0.7 %	2.2 %	8.1 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 122 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: CCB Rack: 0
 Analysis started at: 8/1/2023 9:28:09 PM Vial: 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	134.434 %	111.414 %	-0.013 ppb	-2.863 ppb	0.098 ppb	0.523 ppb	-4.883 ppb	-5.333 ppb	149.355 %
Concentration per Run 1	135.506 %	100.170 %	-0.016 ppb	-2.402 ppb	0.088 ppb	0.352 ppb	-4.515 ppb	-5.817 ppb	143.173 %
Concentration per Run 2	136.146 %	114.992 %	-0.016 ppb	-2.206 ppb	0.153 ppb	0.712 ppb	-4.451 ppb	-5.341 ppb	140.445 %
Concentration per Run 3	131.649 %	119.080 %	-0.008 ppb	-3.981 ppb	0.052 ppb	0.504 ppb	-5.681 ppb	-4.840 ppb	164.447 %
Recovery Percentage 1			-2.642 %	-2.863 %	0.139 %	5.227 %	-4.883 %	-5.333 %	
Concentration RSD	1.8 %	8.9 %	37.4 %	34.0 %	52.5 %	34.6 %	14.2 %	9.2 %	8.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.050 ppb	-0.008 ppb	-0.051 ppb	4.428 ppb	-0.020 ppb	-0.019 ppb	0.041 ppb	-0.617 ppb	116.888 %
Concentration per Run 1	0.023 ppb	-0.008 ppb	-0.040 ppb	5.292 ppb	-0.010 ppb	-0.008 ppb	0.038 ppb	-0.559 ppb	110.685 %
Concentration per Run 2	0.094 ppb	-0.002 ppb	-0.062 ppb	3.865 ppb	-0.028 ppb	-0.034 ppb	0.038 ppb	-0.629 ppb	116.434 %
Concentration per Run 3	0.035 ppb	-0.013 ppb	-0.049 ppb	4.128 ppb	-0.021 ppb	-0.015 ppb	0.046 ppb	-0.665 ppb	123.546 %
Recovery Percentage 1	1.008 %	-0.770 %	-5.064 %	8.857 %	-3.996 %	-0.949 %	4.081 %	-12.348 %	
Concentration RSD	75.4 %	69.3 %	22.0 %	17.2 %	45.7 %	73.2 %	10.5 %	8.7 %	5.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.011 ppb	0.021 ppb	0.000 ppb	0.092 ppb	118.867 %	0.007 ppb	0.001 ppb	116.411 %	0.010 ppb
Concentration per Run 1	0.002 ppb	0.023 ppb	0.001 ppb	0.099 ppb	116.413 %	0.009 ppb	0.000 ppb	113.090 %	0.013 ppb
Concentration per Run 2	0.021 ppb	0.039 ppb	-0.001 ppb	0.107 ppb	112.687 %	0.007 ppb	0.003 ppb	113.024 %	0.008 ppb
Concentration per Run 3	0.011 ppb	0.000 ppb	0.001 ppb	0.069 ppb	127.502 %	0.006 ppb	0.001 ppb	123.120 %	0.008 ppb
Recovery Percentage 1	2.266 %	0.418 %	0.000 %	4.576 %		1.752 %	0.685 %		0.242 %
Concentration RSD	80.5 %	93.4 %	9,181.0 %	22.1 %	6.5 %	21.2 %	83.3 %	5.0 %	32.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.169 ppb	118.845 %	116.867 %	0.176 ppb	0.001 ppb	120.194 %
Concentration per Run 1	0.187 ppb	115.325 %	112.336 %	0.181 ppb	0.003 ppb	114.673 %
Concentration per Run 2	0.164 ppb	114.306 %	113.616 %	0.200 ppb	0.000 ppb	115.397 %
Concentration per Run 3	0.155 ppb	126.905 %	124.648 %	0.148 ppb	0.001 ppb	130.513 %
Recovery Percentage 1	33.728 %			17.615 %	0.122 %	
Concentration RSD	9.7 %	5.9 %	5.8 %	15.0 %	101.4 %	7.4 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 123 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: CCV Rack: 0
 Analysis started at: 8/1/2023 9:32:42 PM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	118.734 %	116.525 %	55.080 ppb	5,463.727 ppb	5,589.723 ppb	58.063 ppb	5,216.354 ppb	4,707.066 ppb	129.476 %
Concentration per Run 1	120.716 %	117.036 %	56.698 ppb	5,411.144 ppb	5,505.894 ppb	56.784 ppb	5,252.570 ppb	4,704.779 ppb	130.200 %
Concentration per Run 2	120.756 %	105.281 %	53.093 ppb	5,381.067 ppb	5,638.111 ppb	58.938 ppb	5,292.070 ppb	4,703.671 ppb	134.522 %
Concentration per Run 3	114.730 %	127.257 %	55.448 ppb	5,598.968 ppb	5,625.164 ppb	58.466 ppb	5,104.421 ppb	4,712.748 ppb	123.705 %
Recovery Percentage 1			91.800 %	91.062 %	93.162 %	96.771 %	86.939 %	78.451 %	
Concentration RSD	2.9 %	9.4 %	3.3 %	2.2 %	1.3 %	2.0 %	1.9 %	0.1 %	4.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	52.543 ppb	55.547 ppb	58.785 ppb	5,958.611 ppb	59.888 ppb	60.747 ppb	59.796 ppb	57.952 ppb	109.492 %
Concentration per Run 1	53.181 ppb	56.462 ppb	60.562 ppb	6,093.971 ppb	63.160 ppb	64.067 ppb	62.281 ppb	59.709 ppb	106.144 %
Concentration per Run 2	50.758 ppb	54.763 ppb	55.788 ppb	5,862.581 ppb	57.335 ppb	58.605 ppb	58.517 ppb	56.526 ppb	106.899 %
Concentration per Run 3	53.691 ppb	55.416 ppb	60.005 ppb	5,919.279 ppb	59.169 ppb	59.570 ppb	58.589 ppb	57.622 ppb	115.435 %
Recovery Percentage 1	87.572 %	92.579 %	97.975 %	99.310 %	99.813 %	101.245 %	99.659 %	96.587 %	
Concentration RSD	3.0 %	1.5 %	4.4 %	2.0 %	5.0 %	4.8 %	3.6 %	2.8 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.279 ppb	57.041 ppb	56.078 ppb	56.340 ppb	110.571 %	55.442 ppb	54.641 ppb	113.530 %	55.291 ppb
Concentration per Run 1	59.035 ppb	57.793 ppb	56.510 ppb	56.586 ppb	110.961 %	55.920 ppb	54.489 ppb	112.000 %	55.563 ppb
Concentration per Run 2	57.514 ppb	54.559 ppb	53.856 ppb	55.285 ppb	107.224 %	56.021 ppb	55.614 ppb	105.742 %	55.085 ppb
Concentration per Run 3	58.287 ppb	58.771 ppb	57.869 ppb	57.149 ppb	113.529 %	54.384 ppb	53.821 ppb	122.848 %	55.225 ppb
Recovery Percentage 1	97.131 %	95.068 %	93.464 %	93.900 %		92.403 %	91.069 %		92.152 %
Concentration RSD	1.3 %	3.9 %	3.6 %	1.7 %	2.9 %	1.7 %	1.7 %	7.6 %	0.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	57.018 ppb	115.177 %	115.550 %	54.682 ppb	56.261 ppb	110.061 %
Concentration per Run 1	57.867 ppb	114.002 %	111.736 %	54.575 ppb	56.700 ppb	105.404 %
Concentration per Run 2	56.750 ppb	109.291 %	109.577 %	55.597 ppb	57.045 ppb	104.162 %
Concentration per Run 3	56.437 ppb	122.237 %	125.336 %	53.873 ppb	55.039 ppb	120.617 %
Recovery Percentage 1	95.029 %			91.136 %	93.769 %	
Concentration RSD	1.3 %	5.7 %	7.4 %	1.6 %	1.9 %	8.3 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 124 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: CCB Rack: 0
 Analysis started at: 8/1/2023 9:37:15 PM Vial: 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	121.415 %	110.733 %	-0.012 ppb	-4.175 ppb	0.130 ppb	0.270 ppb	-6.063 ppb	-5.833 ppb	124.591 %
Concentration per Run 1	122.962 %	98.126 %	-0.009 ppb	-3.892 ppb	0.180 ppb	0.392 ppb	-6.353 ppb	-3.952 ppb	127.291 %
Concentration per Run 2	123.627 %	116.014 %	-0.012 ppb	-4.229 ppb	0.008 ppb	0.299 ppb	-5.423 ppb	-6.927 ppb	124.525 %
Concentration per Run 3	117.655 %	118.058 %	-0.014 ppb	-4.405 ppb	0.203 ppb	0.120 ppb	-6.413 ppb	-6.619 ppb	121.956 %
Recovery Percentage 1			-2.313 %	-4.175 %	0.186 %	2.704 %	-6.063 %	-5.833 %	
Concentration RSD	2.7 %	9.9 %	22.2 %	6.2 %	81.5 %	51.0 %	9.2 %	28.1 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.041 ppb	-0.009 ppb	-0.065 ppb	5.139 ppb	-0.012 ppb	-0.023 ppb	0.038 ppb	-0.740 ppb	114.755 %
Concentration per Run 1	0.050 ppb	-0.011 ppb	-0.047 ppb	5.194 ppb	-0.013 ppb	-0.015 ppb	0.054 ppb	-0.722 ppb	110.482 %
Concentration per Run 2	0.030 ppb	-0.012 ppb	-0.084 ppb	5.535 ppb	-0.017 ppb	-0.016 ppb	0.049 ppb	-0.748 ppb	114.399 %
Concentration per Run 3	0.043 ppb	-0.003 ppb	-0.064 ppb	4.687 ppb	-0.007 ppb	-0.039 ppb	0.009 ppb	-0.748 ppb	119.385 %
Recovery Percentage 1	0.817 %	-0.876 %	-6.518 %	10.277 %	-2.411 %	-1.172 %	3.764 %	-14.793 %	
Concentration RSD	24.1 %	56.0 %	27.8 %	8.3 %	41.8 %	57.9 %	65.5 %	2.0 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.001 ppb	0.027 ppb	-0.003 ppb	0.094 ppb	116.790 %	0.007 ppb	0.002 ppb	116.419 %	0.012 ppb
Concentration per Run 1	0.007 ppb	0.029 ppb	-0.002 ppb	0.103 ppb	113.292 %	0.006 ppb	0.002 ppb	113.112 %	0.013 ppb
Concentration per Run 2	0.003 ppb	0.035 ppb	-0.003 ppb	0.094 ppb	118.052 %	0.009 ppb	0.002 ppb	117.674 %	0.013 ppb
Concentration per Run 3	-0.014 ppb	0.016 ppb	-0.004 ppb	0.084 ppb	119.027 %	0.006 ppb	0.002 ppb	118.471 %	0.009 ppb
Recovery Percentage 1	-0.239 %	0.534 %	-0.029 %	4.685 %		1.709 %	0.983 %		0.293 %
Concentration RSD	921.8 %	35.5 %	23.6 %	9.8 %	2.6 %	28.5 %	21.9 %	2.5 %	18.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.069 ppb	118.005 %	118.629 %	0.199 ppb	0.002 ppb	119.156 %
Concentration per Run 1	0.079 ppb	113.362 %	112.936 %	0.198 ppb	0.002 ppb	110.005 %
Concentration per Run 2	0.079 ppb	117.098 %	118.010 %	0.225 ppb	0.001 ppb	120.523 %
Concentration per Run 3	0.050 ppb	123.556 %	124.940 %	0.173 ppb	0.002 ppb	126.938 %
Recovery Percentage 1	13.870 %			19.870 %	0.156 %	
Concentration RSD	24.7 %	4.4 %	5.1 %	13.3 %	30.3 %	7.2 %

Alpha ICPMSQ2 Data

8/2/2023 6:30:15 AM



Analysis index: 125 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: LLCCV Rack: 4
 Analysis started at: 8/1/2023 9:41:48 PM Vial: 51

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	128.087 %	113.799 %	0.285 ppb	96.365 ppb	74.908 ppb	12.218 ppb	94.652 ppb	168.270 ppb	132.976 %
Concentration per Run 1	131.364 %	112.436 %	0.283 ppb	93.112 ppb	69.062 ppb	11.956 ppb	92.870 ppb	154.594 ppb	139.548 %
Concentration per Run 2	126.733 %	122.658 %	0.295 ppb	95.035 ppb	77.903 ppb	11.695 ppb	97.539 ppb	162.887 ppb	129.353 %
Concentration per Run 3	126.164 %	106.303 %	0.277 ppb	100.947 ppb	77.759 ppb	13.004 ppb	93.545 ppb	187.327 ppb	130.027 %
Recovery Percentage 1			56.997 %	96.365 %	107.011 %	122.184 %	94.652 %	168.270 %	
Concentration RSD	2.2 %	7.3 %	3.1 %	4.2 %	6.8 %	5.7 %	2.7 %	10.1 %	4.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	4.782 ppb	0.502 ppb	1.195 ppb	10.078 ppb	0.531 ppb	2.241 ppb	1.251 ppb	10.733 ppb	115.504 %
Concentration per Run 1	4.698 ppb	0.478 ppb	1.178 ppb	10.994 ppb	0.542 ppb	2.164 ppb	1.230 ppb	11.075 ppb	108.786 %
Concentration per Run 2	4.693 ppb	0.522 ppb	1.243 ppb	10.452 ppb	0.559 ppb	2.293 ppb	1.292 ppb	10.661 ppb	115.892 %
Concentration per Run 3	4.954 ppb	0.506 ppb	1.163 ppb	8.786 ppb	0.492 ppb	2.264 ppb	1.230 ppb	10.464 ppb	121.833 %
Recovery Percentage 1	95.637 %	50.211 %	119.456 %	20.155 %	106.244 %	112.025 %	125.062 %	107.334 %	
Concentration RSD	3.1 %	4.4 %	3.5 %	11.4 %	6.6 %	3.0 %	2.9 %	2.9 %	5.7 %

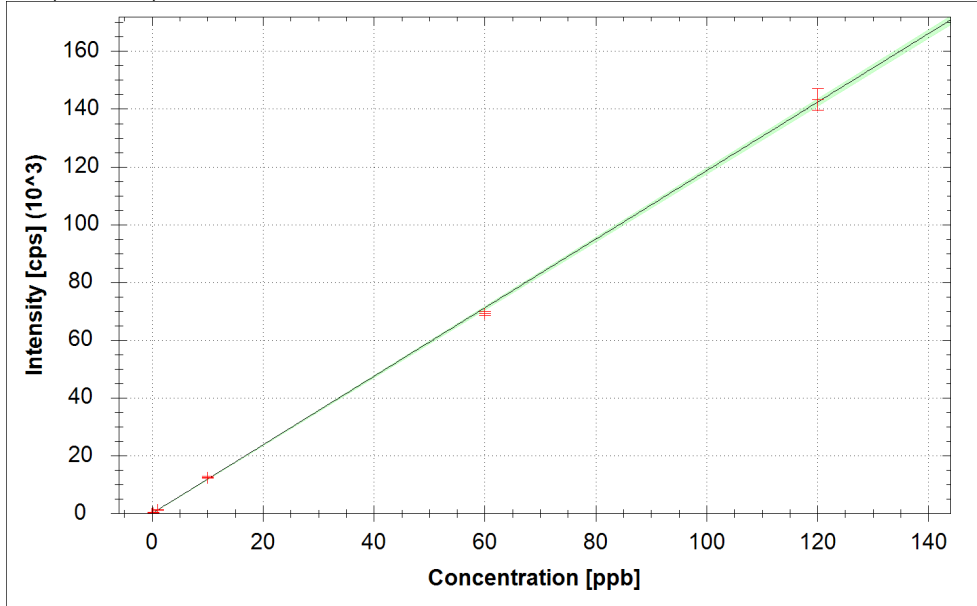
Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.527 ppb	5.101 ppb	0.520 ppb	1.940 ppb	115.411 %	0.240 ppb	0.199 ppb	117.236 %	3.779 ppb
Concentration per Run 1	0.552 ppb	5.254 ppb	0.519 ppb	1.976 ppb	110.411 %	0.246 ppb	0.208 ppb	110.557 %	3.776 ppb
Concentration per Run 2	0.534 ppb	5.135 ppb	0.528 ppb	1.968 ppb	114.881 %	0.239 ppb	0.206 ppb	119.515 %	3.854 ppb
Concentration per Run 3	0.495 ppb	4.914 ppb	0.512 ppb	1.877 ppb	120.942 %	0.233 ppb	0.183 ppb	121.636 %	3.707 ppb
Recovery Percentage 1	105.422 %	102.022 %	103.924 %	97.000 %		59.876 %	99.508 %		94.468 %
Concentration RSD	5.5 %	3.4 %	1.5 %	2.8 %	4.6 %	2.8 %	6.9 %	5.0 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.597 ppb	117.268 %	117.439 %	0.487 ppb	0.511 ppb	117.443 %
Concentration per Run 1	0.619 ppb	108.666 %	108.071 %	0.476 ppb	0.518 ppb	107.316 %
Concentration per Run 2	0.561 ppb	121.455 %	120.878 %	0.488 ppb	0.500 ppb	121.198 %
Concentration per Run 3	0.612 ppb	121.683 %	123.370 %	0.496 ppb	0.515 ppb	123.815 %
Recovery Percentage 1	119.471 %			97.328 %	102.237 %	
Concentration RSD	5.3 %	6.4 %	7.0 %	2.1 %	1.9 %	7.6 %



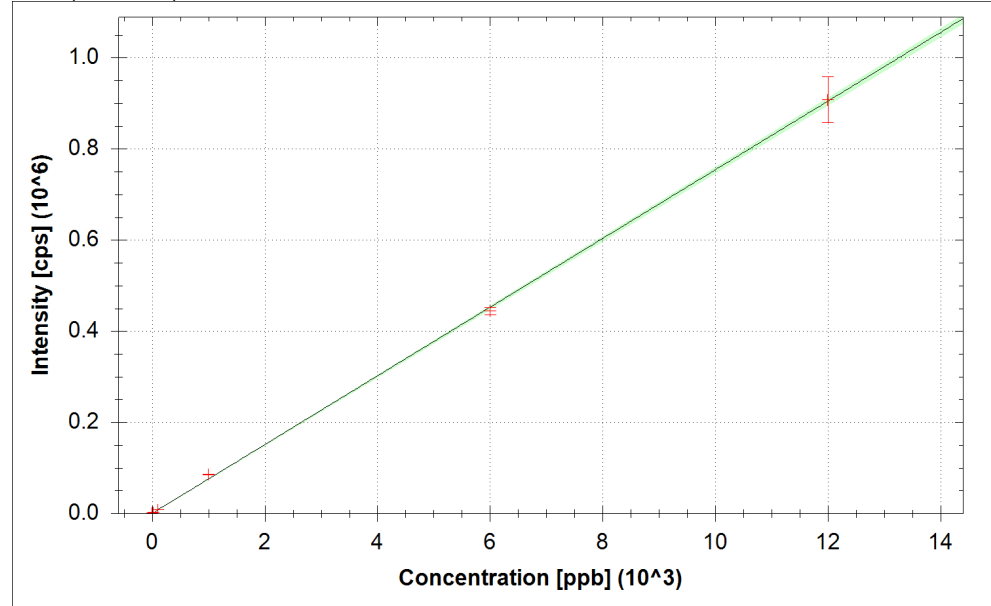
Calibration Curves:

9Be (STD AGD)



$f(x) = 1185.9140 \cdot x + 5.7560$
 $R^2 = 0.9997$
BEC = 0.005 ppb
LoD = 0.0083 ppb

23Na (KED AGD)



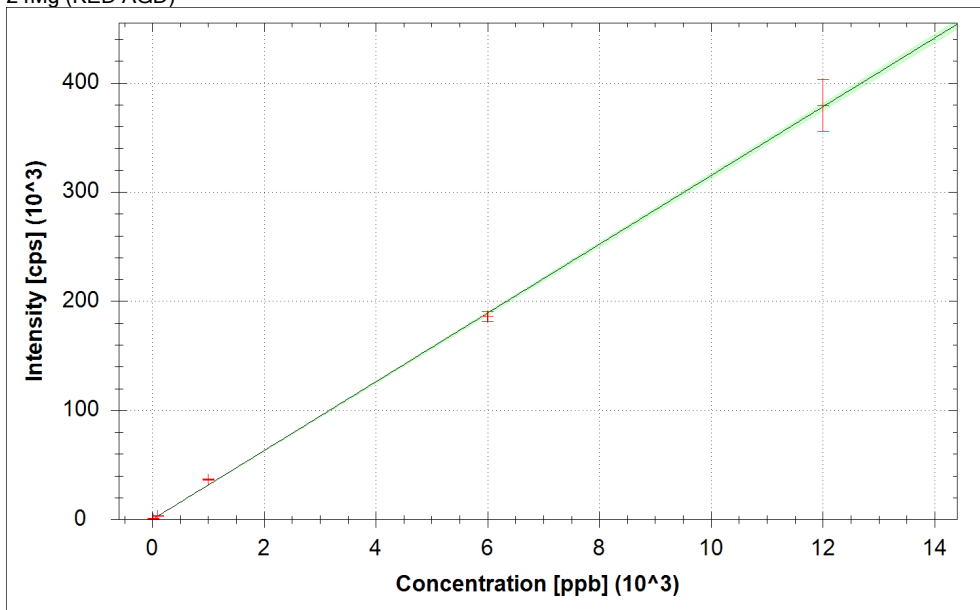
$f(x) = 75.3390 \cdot x + 427.2944$
 $R^2 = 0.9997$
BEC = 5.672 ppb
LoD = 1.4072 ppb

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM

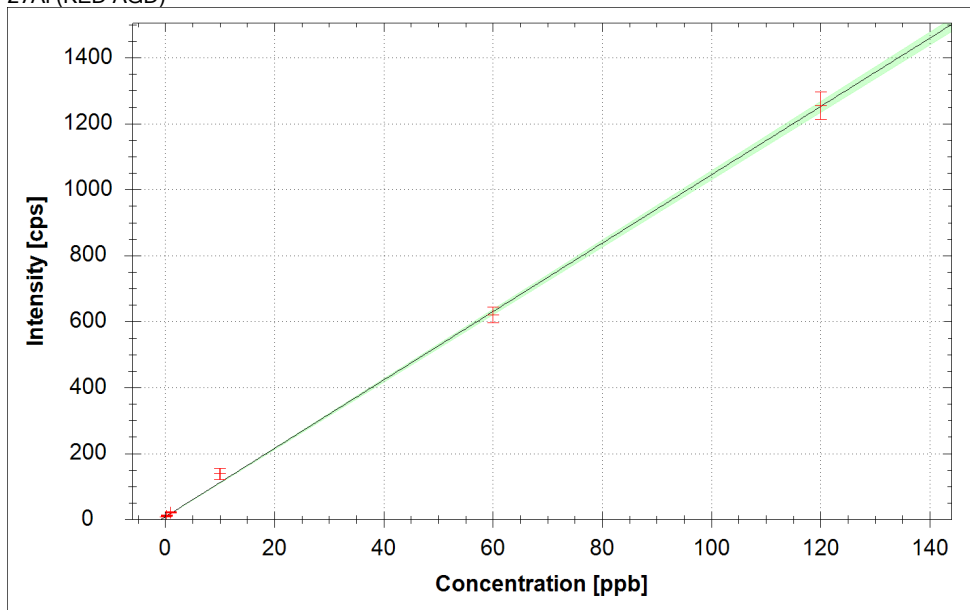


24Mg (KED AGD)



$f(x) = 31.5014 \cdot x + 22.2315$
 $R^2 = 0.9997$
BEC = 0.706 ppb
LoD = 0.3652 ppb

27Al (KED AGD)



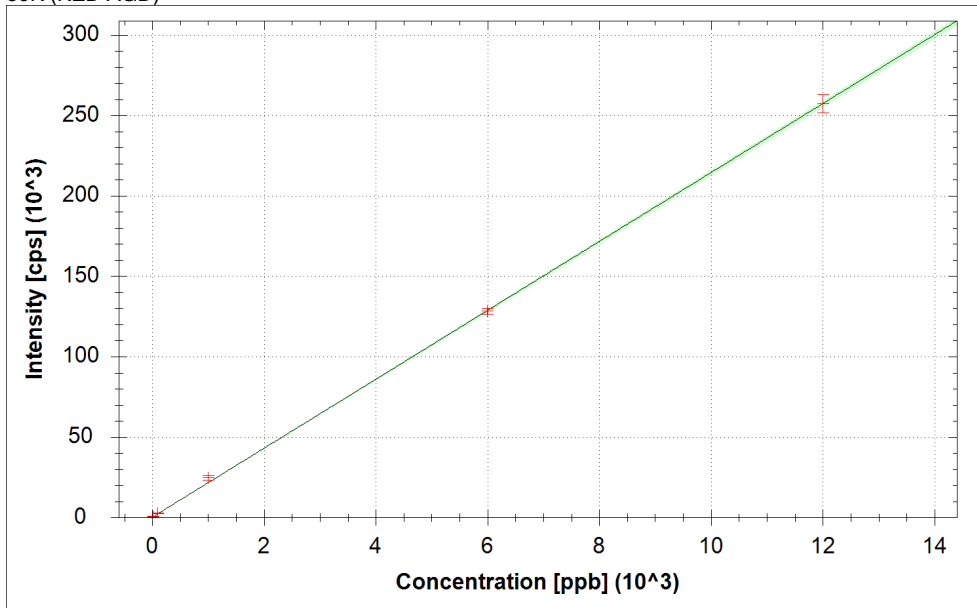
$f(x) = 10.3629 \cdot x + 8.0058$
 $R^2 = 0.9994$
BEC = 0.773 ppb
LoD = 0.0769 ppb

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM

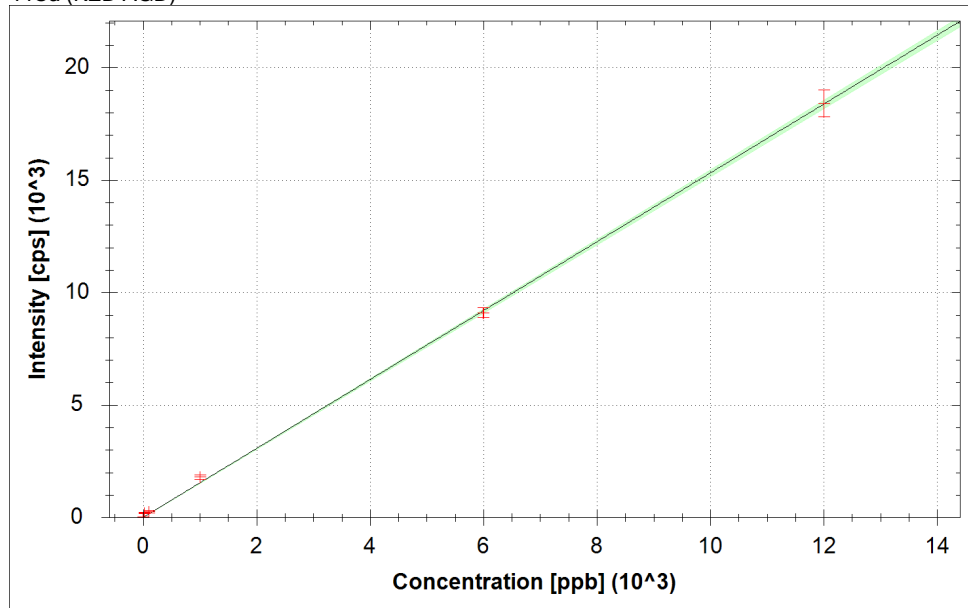


39K (KED AGD)



$f(x) = 21.4221 \cdot x + 186.9773$
 $R^2 = 0.9998$
BEC = 8.728 ppb
LoD = 4.3586 ppb

44Ca (KED AGD)



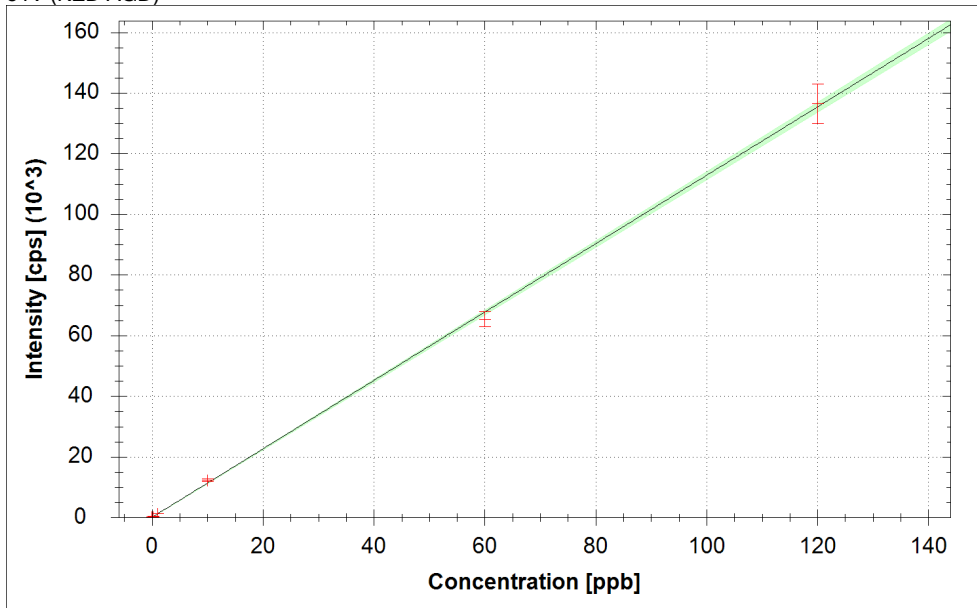
$f(x) = 1.5311 \cdot x + 5.7715$
 $R^2 = 0.9996$
BEC = 3.770 ppb
LoD = 7.9677 ppb

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM

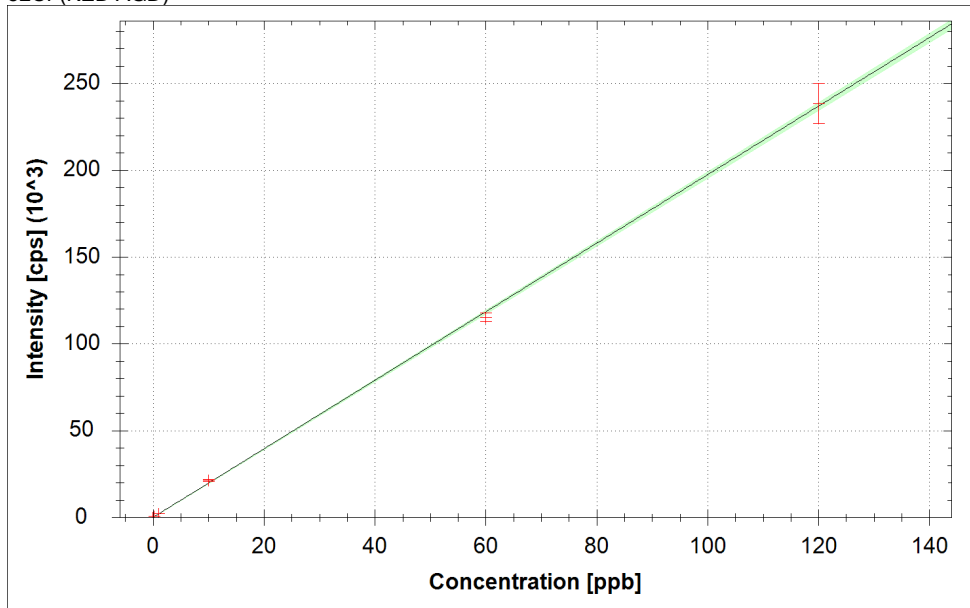


51V (KED AGD)



$f(x) = 1127.6274 * x + 63.5962$
 $R^2 = 0.9995$
BEC = 0.056 ppb
LoD = 0.0937 ppb

52Cr (KED AGD)



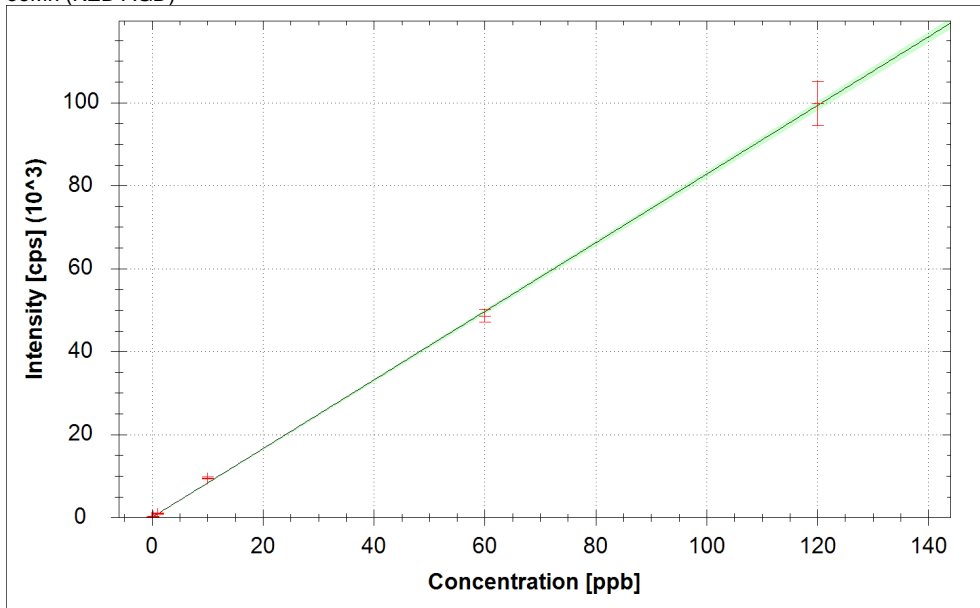
$f(x) = 1972.8347 * x + 56.5056$
 $R^2 = 0.9997$
BEC = 0.029 ppb
LoD = 0.0234 ppb

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM

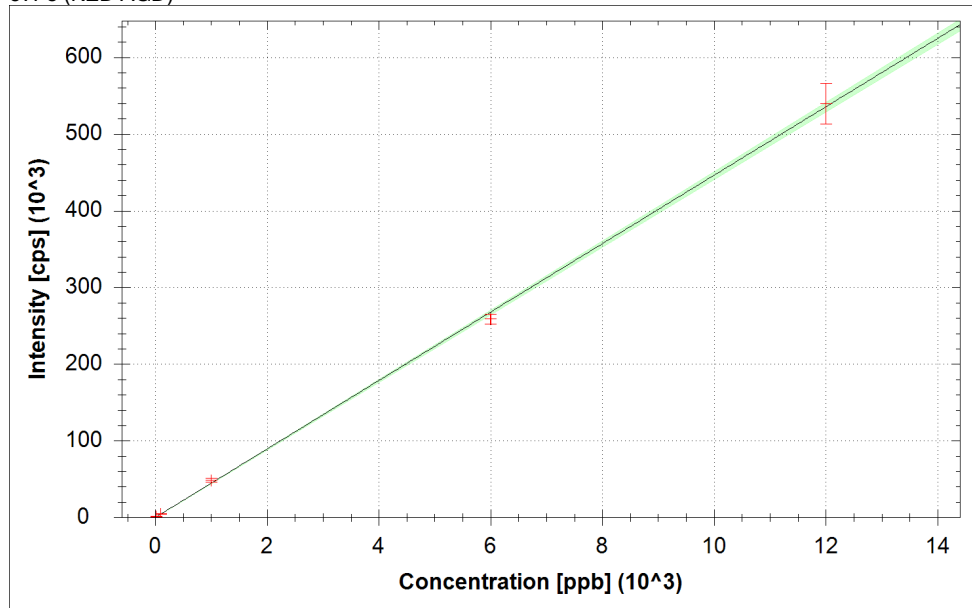


55Mn (KED AGD)



$f(x) = 827.1310 \cdot x + 26.2394$
 $R^2 = 0.9996$
BEC = 0.032 ppb
LoD = 0.0593 ppb

57Fe (KED AGD)



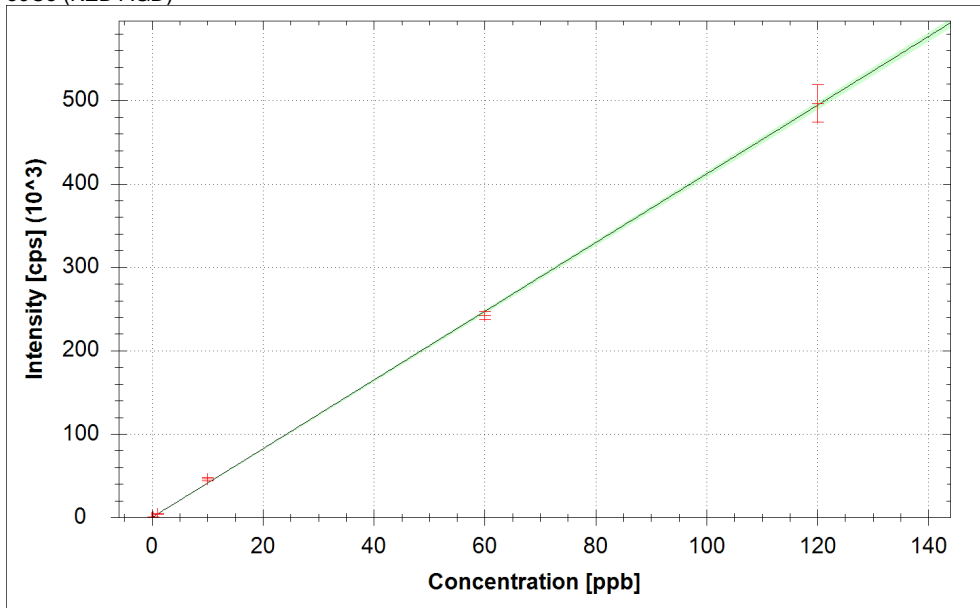
$f(x) = 44.6112 \cdot x + 31.0888$
 $R^2 = 0.9995$
BEC = 0.697 ppb
LoD = 1.0340 ppb

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM

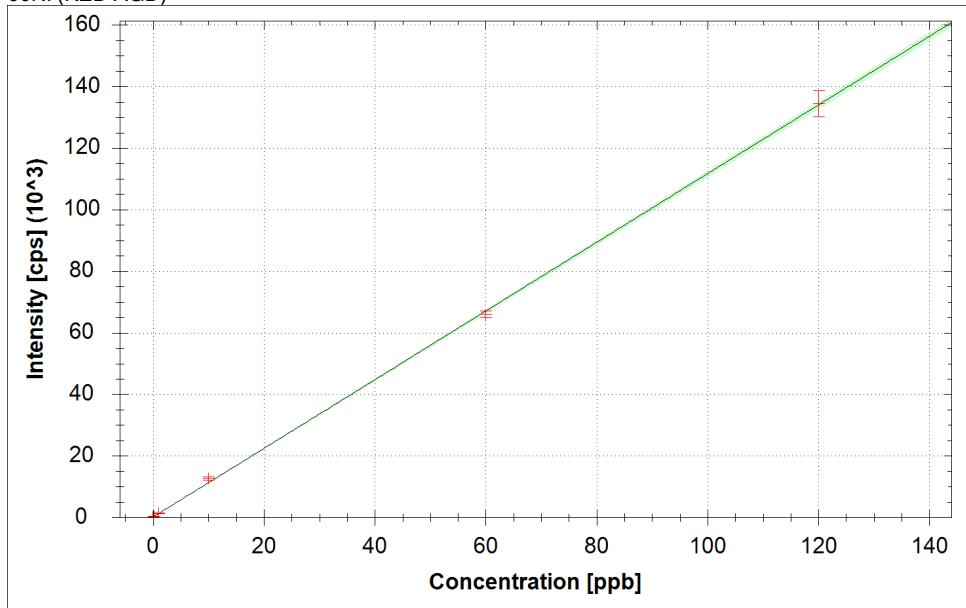


59Co (KED AGD)



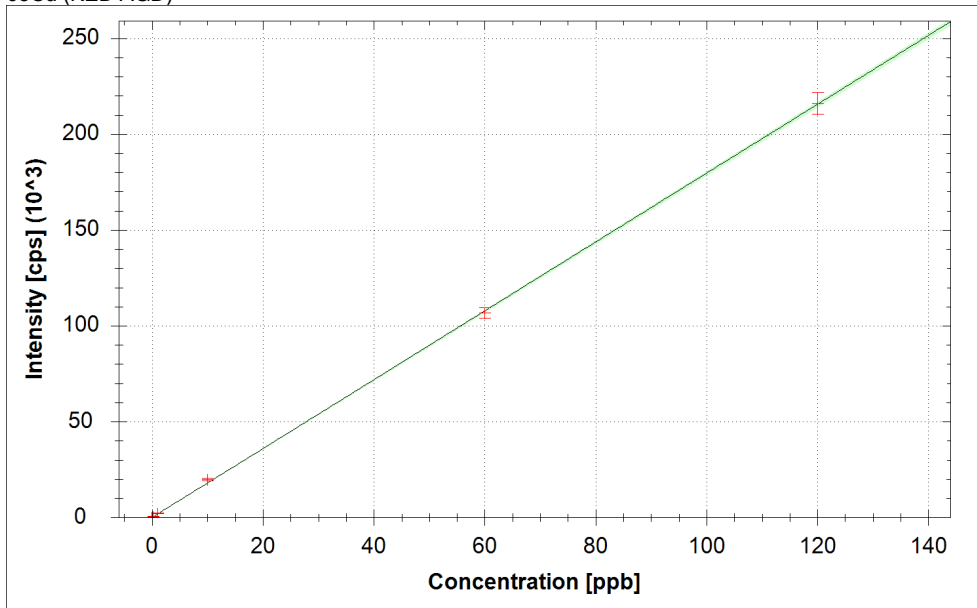
$f(x) = 4118.0482 \cdot x + 6.6750$
 $R^2 = 0.9998$
BEC = 0.002 ppb
LoD = 0.0002 ppb

60Ni (KED AGD)



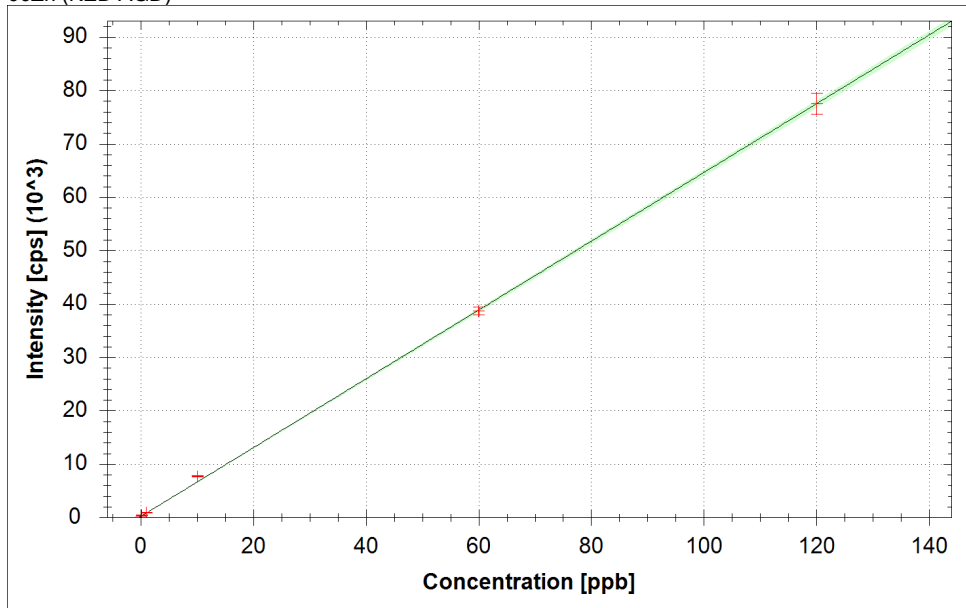
$f(x) = 1115.3749 \cdot x + 133.1875$
 $R^2 = 0.9998$
BEC = 0.119 ppb
LoD = 0.0162 ppb

65Cu (KED AGD)



$f(x) = 1796.0425 \cdot x + 20.2471$
 $R^2 = 0.9999$
BEC = 0.011 ppb
LoD = 0.0394 ppb

66Zn (KED AGD)



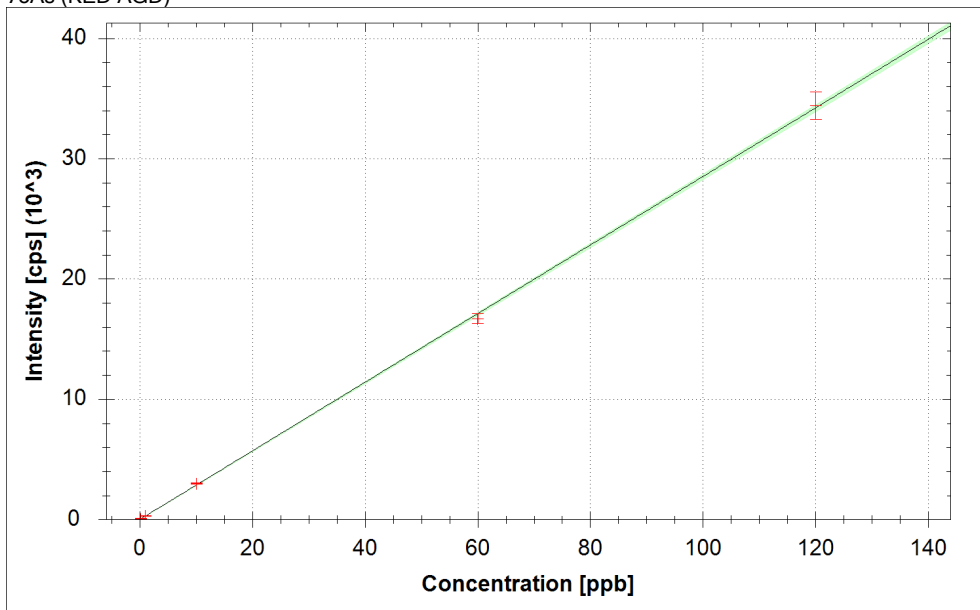
$f(x) = 644.0559 \cdot x + 204.3742$
 $R^2 = 0.9998$
BEC = 0.317 ppb
LoD = 0.0770 ppb

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM

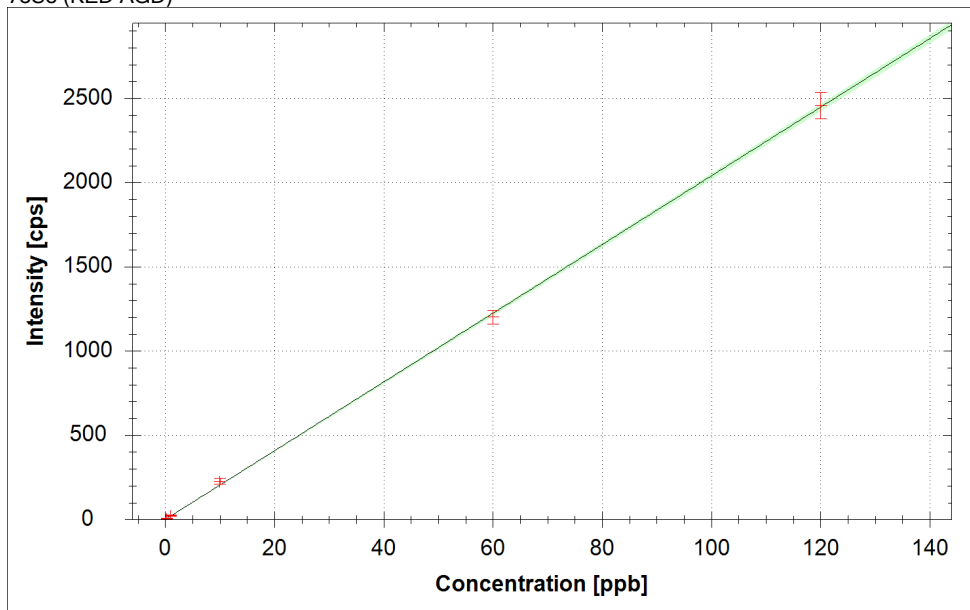


75As (KED AGD)



$f(x) = 285.0381 \cdot x + 2.9706$
 $R^2 = 0.9998$
BEC = 0.010 ppb
LoD = 0.0245 ppb

78Se (KED AGD)



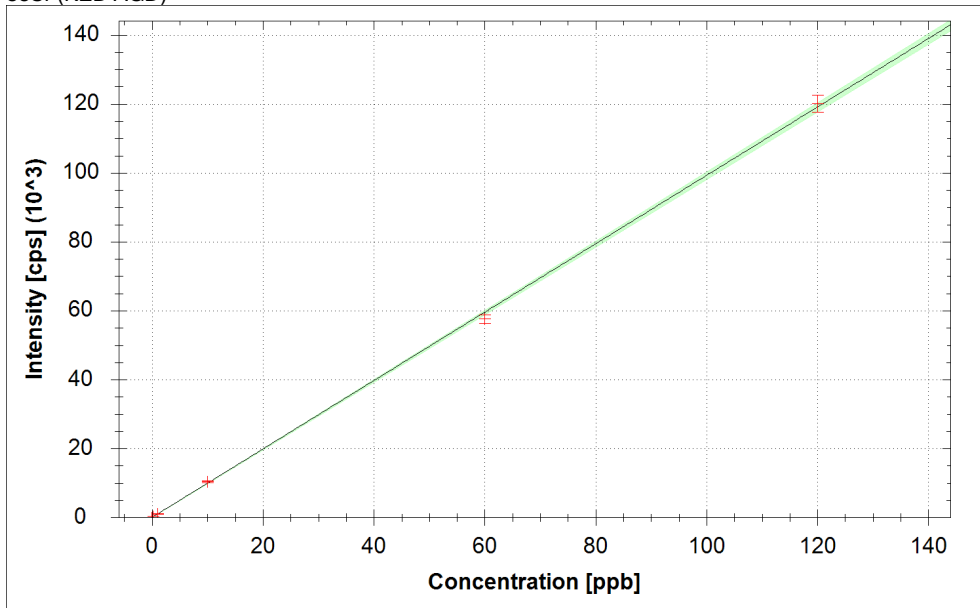
$f(x) = 20.3880 \cdot x + 0.0009$
 $R^2 = 0.9998$
BEC = 0.000 ppb
LoD = 0.0335 ppb

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM

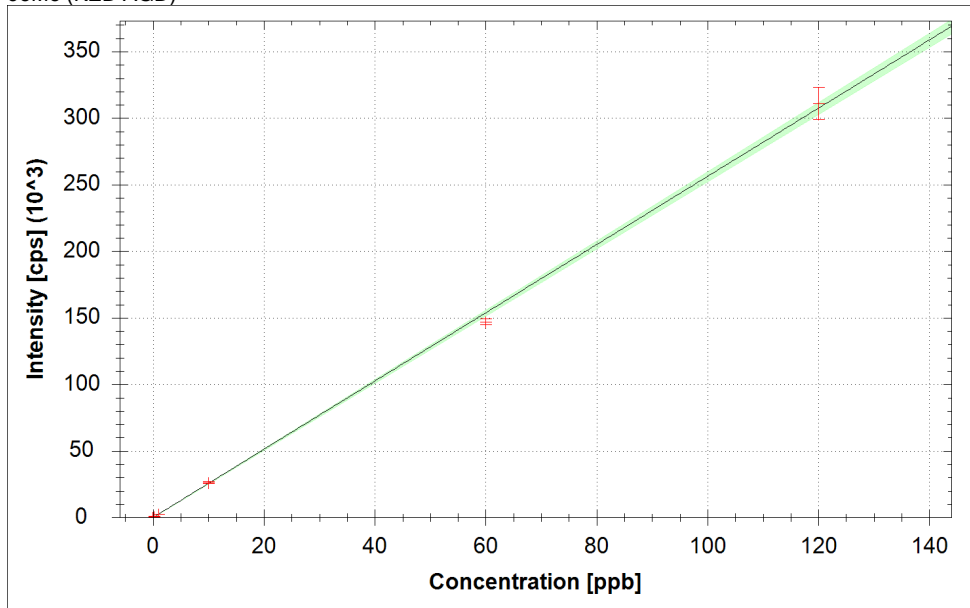


88Sr (KED AGD)



$f(x) = 992.2823 \cdot x + 26.0992$
 $R^2 = 0.9996$
BEC = 0.026 ppb
LoD = 0.0109 ppb

95Mo (KED AGD)



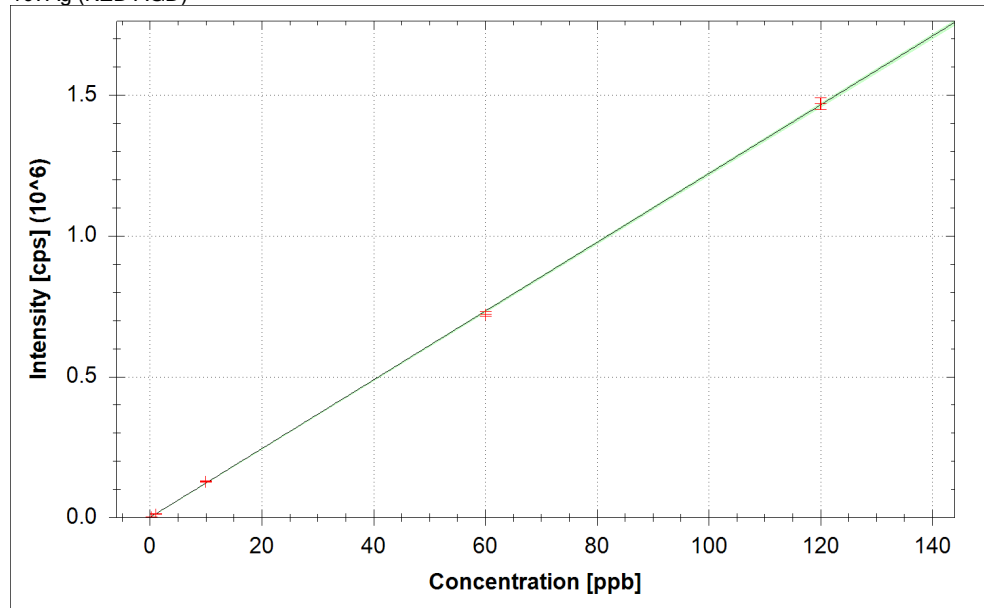
$f(x) = 2562.4001 \cdot x + 4.5375$
 $R^2 = 0.9992$
BEC = 0.002 ppb
LoD = 0.0046 ppb

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM

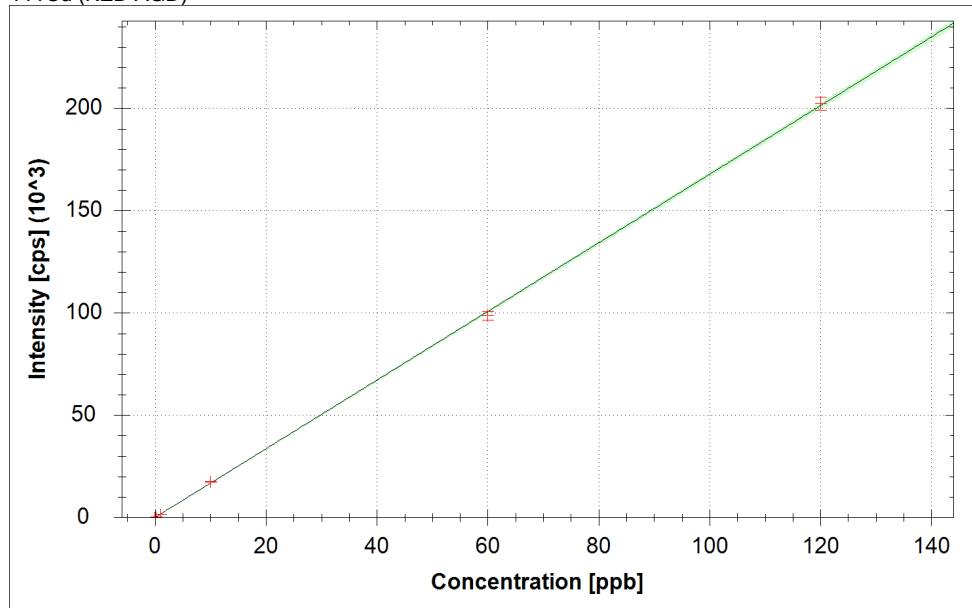


107Ag (KED AGD)



$f(x) = 12206.3534 \cdot x + 5.5973$
 $R^2 = 0.9999$
BEC = 0.000 ppb
LoD = 0.0010 ppb

111Cd (KED AGD)



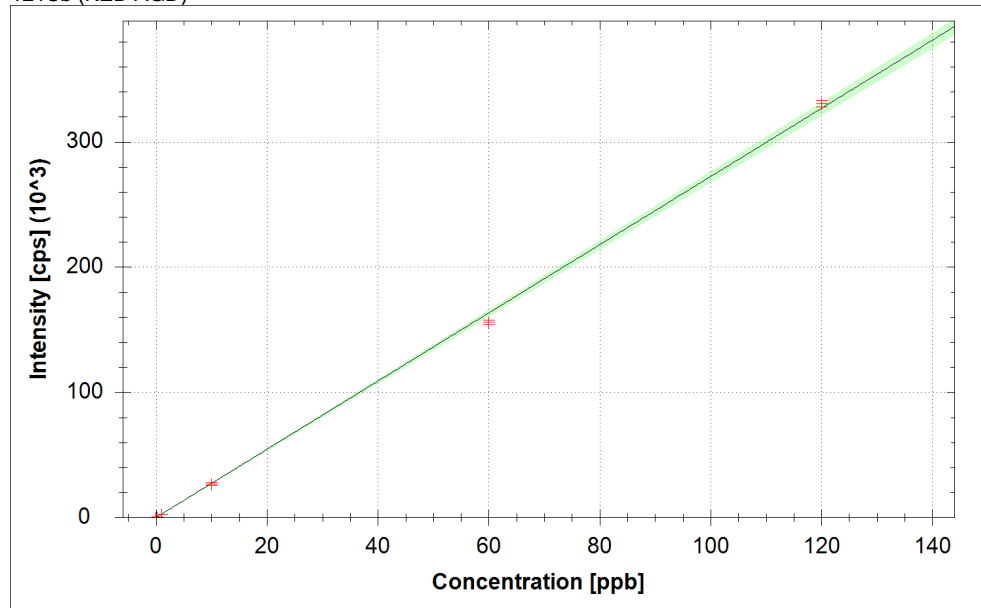
$f(x) = 1677.7383 \cdot x + 0.4560$
 $R^2 = 0.9998$
BEC = 0.000 ppb
LoD = 0.0014 ppb

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM

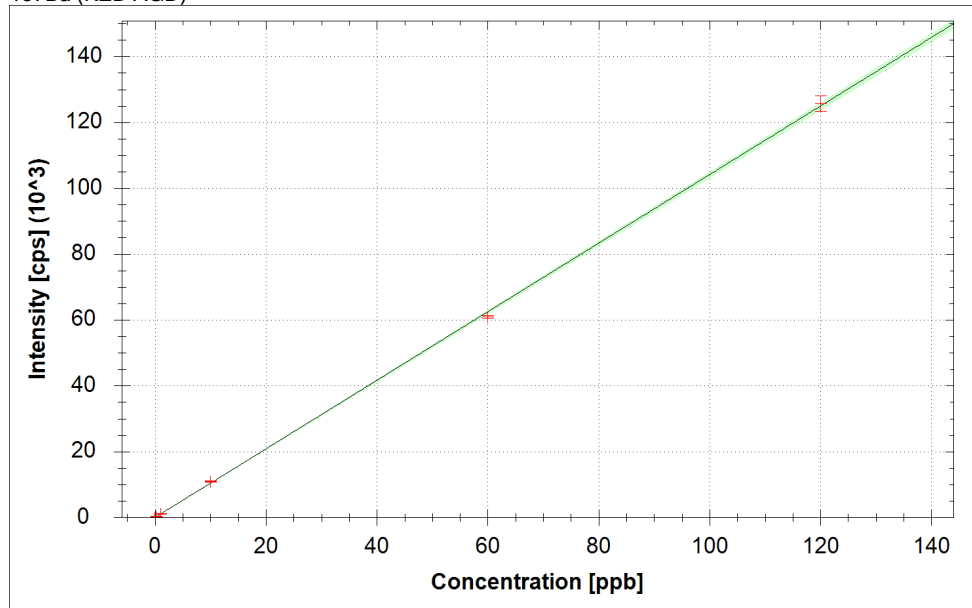


121Sb (KED AGD)



$f(x) = 2722.2963 \cdot x + 10.1103$
 $R^2 = 0.9992$
BEC = 0.004 ppb
LoD = 0.0039 ppb

137Ba (KED AGD)



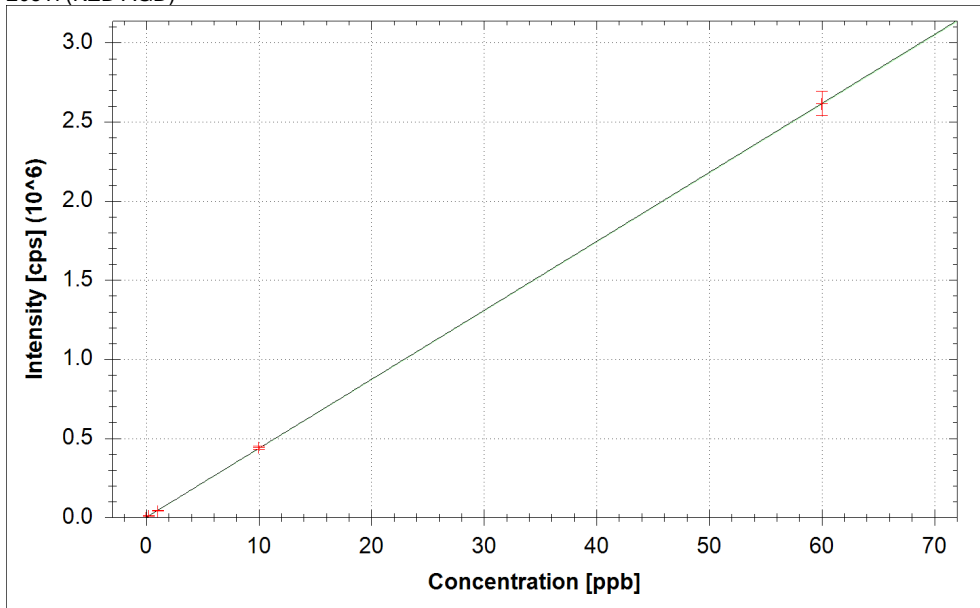
$f(x) = 1040.9336 \cdot x + 5.6218$
 $R^2 = 0.9997$
BEC = 0.005 ppb
LoD = 0.0061 ppb

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM

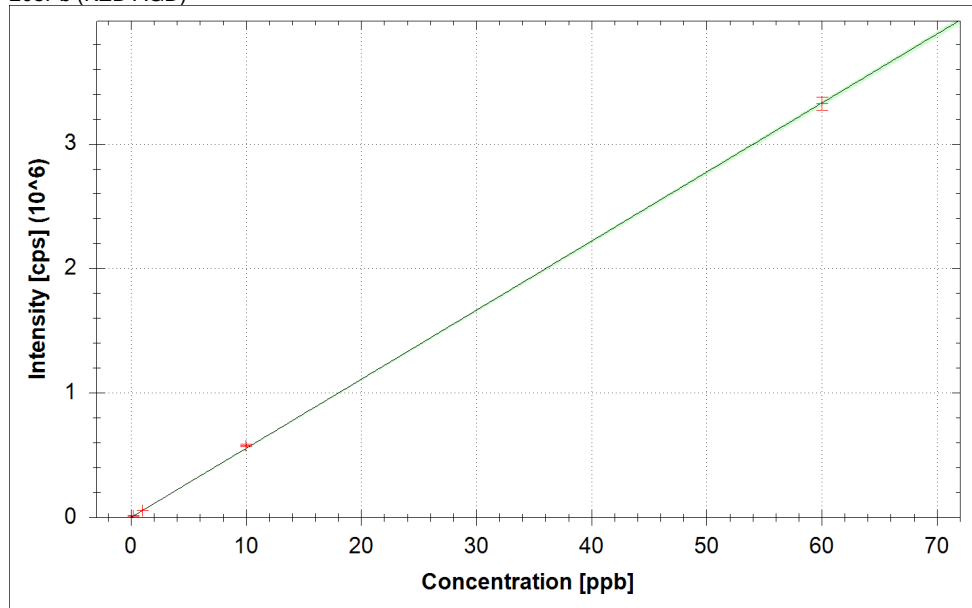


205TI (KED AGD)



$f(x) = 43588.3085 \cdot x + 304.1669$
 $R^2 = 1.0000$
BEC = 0.007 ppb
LoD = 0.0045 ppb

208Pb (KED AGD)



$f(x) = 55434.8669 \cdot x + 273.5246$
 $R^2 = 0.9999$
BEC = 0.005 ppb
LoD = 0.0009 ppb

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Standards:

Analysis Index: 4
Analysis Name: 0.2/20 Cal
Analysis Type: STD
Analysis Started at: 8/9/2023 6:06:03 AM
Total Dilution Factor: 50000
Rack: 0
Vial: 2

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	98.610 %	0.9 %	
6Li (KED AGD)	98.716 %	6.5 %	
9Be (STD AGD)	0.220 ppb	4.1 %	0.200 ppb
23Na (KED AGD)	23.745 ppb	7.8 %	20.000 ppb
24Mg (KED AGD)	21.425 ppb	19.6 %	20.000 ppb
27Al (KED AGD)	0.250 ppb	77.8 %	0.200 ppb
39K (KED AGD)	23.525 ppb	14.5 %	20.000 ppb
44Ca (KED AGD)	118.981 ppb	17.7 %	20.000 ppb
45Sc (STD AGD)	97.823 %	2.3 %	
51V (KED AGD)	0.154 ppb	31.3 %	0.200 ppb
52Cr (KED AGD)	0.231 ppb	6.0 %	0.200 ppb
55Mn (KED AGD)	0.235 ppb	19.9 %	0.200 ppb
57Fe (KED AGD)	22.653 ppb	8.1 %	20.000 ppb
59Co (KED AGD)	0.223 ppb	1.7 %	0.200 ppb
60Ni (KED AGD)	0.229 ppb	19.0 %	0.200 ppb
65Cu (KED AGD)	0.203 ppb	9.8 %	0.200 ppb
66Zn (KED AGD)	0.313 ppb	9.2 %	0.200 ppb
74Ge (KED AGD)	99.719 %	2.9 %	
75As (KED AGD)	0.198 ppb	16.4 %	0.200 ppb
78Se (KED AGD)	0.215 ppb	22.6 %	0.200 ppb
88Sr (KED AGD)	0.244 ppb	4.2 %	0.200 ppb
95Mo (KED AGD)	0.222 ppb	17.7 %	0.200 ppb
103Rh (KED AGD)	98.172 %	2.3 %	
107Ag (KED AGD)	0.209 ppb	2.7 %	0.200 ppb
111Cd (KED AGD)	0.210 ppb	5.2 %	0.200 ppb
115In (KED AGD)	98.970 %	4.9 %	
121Sb (KED AGD)	0.195 ppb	9.7 %	0.200 ppb
137Ba (KED AGD)	0.238 ppb	23.1 %	0.200 ppb
159Tb (KED AGD)	97.299 %	5.1 %	
175Lu (KED AGD)	97.512 %	6.2 %	
205Tl (KED AGD)	0.205 ppb	4.4 %	0.200 ppb
208Pb (KED AGD)	0.211 ppb	3.5 %	0.200 ppb
209Bi (KED AGD)	98.882 %	4.3 %	

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Standards:

Analysis Index: 5
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 8/9/2023 6:10:31 AM
Total Dilution Factor: 10000
Rack: 0
Vial: 3

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	96.832 %	0.5 %	
6Li (KED AGD)	97.913 %	6.3 %	
9Be (STD AGD)	0.995 ppb	1.2 %	1.000 ppb
23Na (KED AGD)	105.552 ppb	1.4 %	100.000 ppb
24Mg (KED AGD)	101.073 ppb	6.1 %	100.000 ppb
27Al (KED AGD)	1.240 ppb	16.7 %	1.000 ppb
39K (KED AGD)	110.267 ppb	4.8 %	100.000 ppb
44Ca (KED AGD)	163.293 ppb	24.8 %	100.000 ppb
45Sc (STD AGD)	96.493 %	3.1 %	
51V (KED AGD)	1.009 ppb	6.1 %	1.000 ppb
52Cr (KED AGD)	1.036 ppb	4.3 %	1.000 ppb
55Mn (KED AGD)	1.050 ppb	13.6 %	1.000 ppb
57Fe (KED AGD)	99.420 ppb	3.4 %	100.000 ppb
59Co (KED AGD)	1.003 ppb	7.9 %	1.000 ppb
60Ni (KED AGD)	1.122 ppb	7.3 %	1.000 ppb
65Cu (KED AGD)	1.126 ppb	7.7 %	1.000 ppb
66Zn (KED AGD)	1.104 ppb	5.6 %	1.000 ppb
74Ge (KED AGD)	99.157 %	3.2 %	
75As (KED AGD)	1.028 ppb	9.3 %	1.000 ppb
78Se (KED AGD)	1.049 ppb	18.7 %	1.000 ppb
88Sr (KED AGD)	1.010 ppb	4.1 %	1.000 ppb
95Mo (KED AGD)	0.896 ppb	7.8 %	1.000 ppb
103Rh (KED AGD)	97.531 %	2.0 %	
107Ag (KED AGD)	0.957 ppb	4.5 %	1.000 ppb
111Cd (KED AGD)	0.978 ppb	1.8 %	1.000 ppb
115In (KED AGD)	98.265 %	5.2 %	
121Sb (KED AGD)	0.945 ppb	1.5 %	1.000 ppb
137Ba (KED AGD)	1.014 ppb	8.4 %	1.000 ppb
159Tb (KED AGD)	97.653 %	4.7 %	
175Lu (KED AGD)	97.376 %	6.6 %	
205Tl (KED AGD)	0.938 ppb	3.3 %	1.000 ppb
208Pb (KED AGD)	0.995 ppb	1.2 %	1.000 ppb
209Bi (KED AGD)	98.168 %	4.1 %	

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Standards:

Analysis Index: 6
Analysis Name: 10/1000 Cal
Analysis Type: STD
Analysis Started at: 8/9/2023 6:15:00 AM
Total Dilution Factor: 1000
Rack: 0
Vial: 4

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	93.551 %	0.2 %	
6Li (KED AGD)	93.258 %	4.4 %	
9Be (STD AGD)	10.478 ppb	2.7 %	10.000 ppb
23Na (KED AGD)	1,127.429 ppb	1.0 %	1,000.000 ppb
24Mg (KED AGD)	1,154.368 ppb	2.2 %	1,000.000 ppb
27Al (KED AGD)	12.537 ppb	13.5 %	10.000 ppb
39K (KED AGD)	1,138.713 ppb	5.7 %	1,000.000 ppb
44Ca (KED AGD)	1,164.725 ppb	5.7 %	1,000.000 ppb
45Sc (STD AGD)	93.971 %	1.2 %	
51V (KED AGD)	10.889 ppb	3.3 %	10.000 ppb
52Cr (KED AGD)	10.786 ppb	3.0 %	10.000 ppb
55Mn (KED AGD)	11.425 ppb	2.8 %	10.000 ppb
57Fe (KED AGD)	1,086.554 ppb	4.4 %	1,000.000 ppb
59Co (KED AGD)	11.161 ppb	4.2 %	10.000 ppb
60Ni (KED AGD)	11.228 ppb	4.0 %	10.000 ppb
65Cu (KED AGD)	11.055 ppb	3.7 %	10.000 ppb
66Zn (KED AGD)	11.607 ppb	2.1 %	10.000 ppb
74Ge (KED AGD)	94.499 %	2.6 %	
75As (KED AGD)	10.495 ppb	1.6 %	10.000 ppb
78Se (KED AGD)	11.059 ppb	7.7 %	10.000 ppb
88Sr (KED AGD)	10.412 ppb	3.2 %	10.000 ppb
95Mo (KED AGD)	10.170 ppb	3.0 %	10.000 ppb
103Rh (KED AGD)	94.242 %	2.0 %	
107Ag (KED AGD)	10.427 ppb	1.7 %	10.000 ppb
111Cd (KED AGD)	10.370 ppb	1.2 %	10.000 ppb
115In (KED AGD)	95.959 %	3.9 %	
121Sb (KED AGD)	9.771 ppb	3.8 %	10.000 ppb
137Ba (KED AGD)	10.496 ppb	1.3 %	10.000 ppb
159Tb (KED AGD)	95.841 %	3.7 %	
175Lu (KED AGD)	95.691 %	5.3 %	
205Tl (KED AGD)	10.108 ppb	2.6 %	10.000 ppb
208Pb (KED AGD)	10.432 ppb	1.6 %	10.000 ppb
209Bi (KED AGD)	96.404 %	4.0 %	

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 8/9/2023 6:19:29 AM
Total Dilution Factor: 166.666666
Rack: 0
Vial: 5

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	84.998 %	0.6 %	
6Li (KED AGD)	92.135 %	1.2 %	
9Be (STD AGD)	58.399 ppb	1.0 %	60.000 ppb
23Na (KED AGD)	5,887.196 ppb	1.8 %	6,000.000 ppb
24Mg (KED AGD)	5,903.568 ppb	2.4 %	6,000.000 ppb
27Al (KED AGD)	59.010 ppb	3.9 %	60.000 ppb
39K (KED AGD)	5,974.939 ppb	1.4 %	6,000.000 ppb
44Ca (KED AGD)	5,943.097 ppb	2.5 %	6,000.000 ppb
45Sc (STD AGD)	87.518 %	0.6 %	
51V (KED AGD)	57.912 ppb	3.7 %	60.000 ppb
52Cr (KED AGD)	58.370 ppb	2.0 %	60.000 ppb
55Mn (KED AGD)	58.631 ppb	3.1 %	60.000 ppb
57Fe (KED AGD)	5,796.039 ppb	2.5 %	6,000.000 ppb
59Co (KED AGD)	58.828 ppb	1.9 %	60.000 ppb
60Ni (KED AGD)	59.001 ppb	1.7 %	60.000 ppb
65Cu (KED AGD)	59.417 ppb	2.5 %	60.000 ppb
66Zn (KED AGD)	59.641 ppb	1.9 %	60.000 ppb
74Ge (KED AGD)	88.328 %	1.9 %	
75As (KED AGD)	58.531 ppb	2.4 %	60.000 ppb
78Se (KED AGD)	58.879 ppb	3.5 %	60.000 ppb
88Sr (KED AGD)	57.955 ppb	2.2 %	60.000 ppb
95Mo (KED AGD)	57.297 ppb	1.5 %	60.000 ppb
103Rh (KED AGD)	86.268 %	1.3 %	
107Ag (KED AGD)	59.160 ppb	1.1 %	60.000 ppb
111Cd (KED AGD)	58.785 ppb	2.2 %	60.000 ppb
115In (KED AGD)	86.575 %	0.2 %	
121Sb (KED AGD)	57.225 ppb	1.2 %	60.000 ppb
137Ba (KED AGD)	58.496 ppb	0.6 %	60.000 ppb
159Tb (KED AGD)	90.085 %	1.4 %	
175Lu (KED AGD)	90.115 %	2.1 %	
205Tl (KED AGD)	59.983 ppb	2.9 %	60.000 ppb
208Pb (KED AGD)	59.928 ppb	1.6 %	60.000 ppb
209Bi (KED AGD)	88.915 %	1.8 %	

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Standards:

Analysis Index: 8
 Analysis Name: 120/12000 Cal
 Analysis Type: STD
 Analysis Started at: 8/9/2023 6:23:59 AM
 Total Dilution Factor: 83.33333333
 Rack: 0
 Vial: 6

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	79.967 %	0.4 %	
6Li (KED AGD)	86.597 %	5.9 %	
9Be (STD AGD)	120.761 ppb	2.6 %	120.000 ppb
23Na (KED AGD)	12,045.730 ppb	5.6 %	12,000.000 ppb
24Mg (KED AGD)	12,035.341 ppb	6.2 %	12,000.000 ppb
27Al (KED AGD)	120.282 ppb	3.4 %	120.000 ppb
39K (KED AGD)	12,000.880 ppb	2.2 %	12,000.000 ppb
44Ca (KED AGD)	12,014.032 ppb	3.3 %	12,000.000 ppb
45Sc (STD AGD)	84.617 %	1.7 %	
51V (KED AGD)	120.970 ppb	4.8 %	120.000 ppb
52Cr (KED AGD)	120.749 ppb	4.8 %	120.000 ppb
55Mn (KED AGD)	120.565 ppb	5.3 %	120.000 ppb
57Fe (KED AGD)	12,094.768 ppb	4.9 %	12,000.000 ppb
59Co (KED AGD)	120.489 ppb	4.5 %	120.000 ppb
60Ni (KED AGD)	120.396 ppb	3.2 %	120.000 ppb
65Cu (KED AGD)	120.202 ppb	2.6 %	120.000 ppb
66Zn (KED AGD)	120.045 ppb	2.6 %	120.000 ppb
74Ge (KED AGD)	82.154 %	2.9 %	
75As (KED AGD)	120.693 ppb	3.3 %	120.000 ppb
78Se (KED AGD)	120.472 ppb	3.1 %	120.000 ppb
88Sr (KED AGD)	120.988 ppb	2.1 %	120.000 ppb
95Mo (KED AGD)	121.338 ppb	3.9 %	120.000 ppb
103Rh (KED AGD)	79.816 %	0.5 %	
107Ag (KED AGD)	120.385 ppb	1.4 %	120.000 ppb
111Cd (KED AGD)	120.577 ppb	1.6 %	120.000 ppb
115In (KED AGD)	81.556 %	1.4 %	
121Sb (KED AGD)	121.407 ppb	0.8 %	120.000 ppb
137Ba (KED AGD)	120.711 ppb	1.9 %	120.000 ppb
159Tb (KED AGD)	86.633 %	2.4 %	
175Lu (KED AGD)	87.226 %	2.8 %	
205Tl (KED AGD)	138.719 ppb	2.6 %	120.000 ppb
208Pb (KED AGD)	132.570 ppb	1.4 %	120.000 ppb
209Bi (KED AGD)	83.304 %	2.6 %	

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 1 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: Rinse Rack 0
 Analysis started at: 8/9/2023 5:52:37 AM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.960 %	108.267 %	0.002 ppb	3.940 ppb	0.949 ppb	2.665 ppb	5.009 ppb	7.314 ppb	100.332 %
Concentration per Run 1	104.973 %	104.494 %	0.003 ppb	4.967 ppb	0.737 ppb	2.368 ppb	6.029 ppb	7.074 ppb	100.030 %
Concentration per Run 2	104.317 %	108.828 %	0.001 ppb	3.319 ppb	0.690 ppb	2.392 ppb	4.448 ppb	8.504 ppb	99.740 %
Concentration per Run 3	105.591 %	111.477 %	0.004 ppb	3.534 ppb	1.421 ppb	3.235 ppb	4.550 ppb	6.365 ppb	101.226 %
Concentration RSD	0.6 %	3.3 %	69.4 %	22.7 %	43.1 %	18.5 %	17.7 %	14.9 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.009 ppb	0.082 ppb	0.401 ppb	90.849 ppb	0.012 ppb	0.514 ppb	0.172 ppb	3.503 ppb	100.135 %
Concentration per Run 1	-0.003 ppb	0.078 ppb	0.405 ppb	85.579 ppb	0.007 ppb	0.568 ppb	0.154 ppb	3.473 ppb	97.753 %
Concentration per Run 2	0.036 ppb	0.097 ppb	0.389 ppb	95.993 ppb	0.018 ppb	0.420 ppb	0.204 ppb	3.406 ppb	98.724 %
Concentration per Run 3	-0.006 ppb	0.071 ppb	0.409 ppb	90.974 ppb	0.012 ppb	0.555 ppb	0.159 ppb	3.631 ppb	103.929 %
Concentration RSD	268.0 %	16.4 %	2.7 %	5.7 %	45.8 %	15.9 %	16.0 %	3.3 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.002 ppb	0.023 ppb	0.010 ppb	0.014 ppb	99.847 %	0.001 ppb	0.001 ppb	98.429 %	0.076 ppb
Concentration per Run 1	0.002 ppb	0.057 ppb	0.009 ppb	0.014 ppb	97.800 %	0.001 ppb	0.001 ppb	94.968 %	0.071 ppb
Concentration per Run 2	-0.002 ppb	-0.011 ppb	0.009 ppb	0.011 ppb	99.127 %	0.001 ppb	0.001 ppb	96.154 %	0.086 ppb
Concentration per Run 3	0.006 ppb	0.024 ppb	0.012 ppb	0.016 ppb	102.613 %	0.001 ppb	0.000 ppb	104.166 %	0.071 ppb
Concentration RSD	187.3 %	146.7 %	16.4 %	16.6 %	2.5 %	42.5 %	61.8 %	5.1 %	11.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.075 ppb	102.147 %	103.055 %	0.001 ppb	0.010 ppb	105.651 %
Concentration per Run 1	0.085 ppb	97.334 %	97.689 %	0.000 ppb	0.010 ppb	102.052 %
Concentration per Run 2	0.050 ppb	101.541 %	101.473 %	0.001 ppb	0.011 ppb	104.490 %
Concentration per Run 3	0.091 ppb	107.566 %	110.004 %	0.001 ppb	0.009 ppb	110.410 %
Concentration RSD	29.7 %	5.0 %	6.1 %	119.7 %	7.7 %	4.1 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 2 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: CAL LOT #M22-1194 Rack 0
 Analysis started at: 8/9/2023 5:57:04 AM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.174 %	99.840 %	0.001 ppb	5.241 ppb	0.932 ppb	3.117 ppb	3.370 ppb	4.281 ppb	99.838 %
Concentration per Run 1	101.387 %	91.733 %	-0.002 ppb	6.172 ppb	1.108 ppb	3.420 ppb	5.736 ppb	6.784 ppb	101.104 %
Concentration per Run 2	102.165 %	100.883 %	0.001 ppb	5.495 ppb	1.197 ppb	2.701 ppb	1.906 ppb	2.827 ppb	98.152 %
Concentration per Run 3	99.972 %	106.902 %	0.003 ppb	4.057 ppb	0.490 ppb	3.230 ppb	2.468 ppb	3.232 ppb	100.259 %
Concentration RSD	1.1 %	7.7 %	316.1 %	20.6 %	41.3 %	11.9 %	61.4 %	50.9 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.004 ppb	0.083 ppb	0.504 ppb	92.936 ppb	0.007 ppb	0.551 ppb	0.179 ppb	3.619 ppb	100.029 %
Concentration per Run 1	-0.026 ppb	0.063 ppb	0.472 ppb	90.438 ppb	0.003 ppb	0.531 ppb	0.176 ppb	3.650 ppb	97.782 %
Concentration per Run 2	0.039 ppb	0.125 ppb	0.449 ppb	96.482 ppb	0.013 ppb	0.438 ppb	0.162 ppb	3.539 ppb	98.029 %
Concentration per Run 3	0.000 ppb	0.061 ppb	0.590 ppb	91.888 ppb	0.005 ppb	0.685 ppb	0.198 ppb	3.668 ppb	104.276 %
Concentration RSD	726.6 %	43.6 %	15.0 %	3.4 %	75.6 %	22.6 %	10.1 %	1.9 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.001 ppb	0.016 ppb	0.011 ppb	0.015 ppb	99.637 %	0.001 ppb	0.000 ppb	99.009 %	0.074 ppb
Concentration per Run 1	0.002 ppb	0.026 ppb	0.010 ppb	0.019 ppb	98.593 %	0.001 ppb	0.000 ppb	96.453 %	0.075 ppb
Concentration per Run 2	-0.007 ppb	0.026 ppb	0.011 ppb	0.006 ppb	97.735 %	0.001 ppb	0.000 ppb	97.454 %	0.071 ppb
Concentration per Run 3	0.004 ppb	-0.005 ppb	0.012 ppb	0.018 ppb	102.583 %	0.001 ppb	0.000 ppb	103.120 %	0.077 ppb
Concentration RSD	765.8 %	112.9 %	8.4 %	50.1 %	2.6 %	38.2 %	0.0 %	3.6 %	4.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.085 ppb	99.767 %	99.545 %	0.001 ppb	0.011 ppb	100.706 %
Concentration per Run 1	0.088 ppb	96.218 %	94.773 %	0.000 ppb	0.011 ppb	96.971 %
Concentration per Run 2	0.072 ppb	99.922 %	98.786 %	0.001 ppb	0.010 ppb	100.387 %
Concentration per Run 3	0.094 ppb	103.161 %	105.075 %	0.002 ppb	0.011 ppb	104.759 %
Concentration RSD	13.0 %	3.5 %	5.2 %	118.5 %	5.5 %	3.9 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 3 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: Blank SMV ICPMSQ2 Rack 4
 Analysis started at: 8/9/2023 6:01:31 AM Vial 49

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.0 %	0.6 %	0.1 %	0.2 %	0.0 %	0.2 %	0.7 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.6 %	0.3 %	0.6 %	0.5 %	0.0 %	0.0 %	1.2 %	0.1 %	0.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration RSD	0.8 %	255.2 %	0.1 %	0.9 %	0.0 %	0.7 %	1.7 %	0.1 %	0.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.4 %	0.0 %	0.1 %	0.2 %	0.1 %	0.0 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 4 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: 0.2/20 Cal Rack: 0
 Analysis started at: 8/9/2023 6:06:03 AM Vial: 2

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.610 %	98.716 %	0.220 ppb	23.745 ppb	21.425 ppb	0.250 ppb	23.525 ppb	118.981 ppb	97.823 %
Concentration per Run 1	97.570 %	98.475 %	0.218 ppb	25.071 ppb	19.602 ppb	0.411 ppb	21.904 ppb	105.029 ppb	97.194 %
Concentration per Run 2	99.113 %	105.217 %	0.212 ppb	21.625 ppb	18.435 ppb	0.034 ppb	21.223 ppb	108.749 ppb	100.331 %
Concentration per Run 3	99.147 %	92.456 %	0.229 ppb	24.541 ppb	26.237 ppb	0.306 ppb	27.449 ppb	143.163 ppb	95.943 %
Concentration RSD	0.9 %	6.5 %	4.1 %	7.8 %	19.6 %	77.8 %	14.5 %	17.7 %	2.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.154 ppb	0.231 ppb	0.235 ppb	22.653 ppb	0.223 ppb	0.229 ppb	0.203 ppb	0.313 ppb	99.719 %
Concentration per Run 1	0.144 ppb	0.246 ppb	0.184 ppb	22.716 ppb	0.227 ppb	0.226 ppb	0.211 ppb	0.331 ppb	96.536 %
Concentration per Run 2	0.112 ppb	0.228 ppb	0.246 ppb	20.782 ppb	0.222 ppb	0.187 ppb	0.180 ppb	0.279 ppb	100.373 %
Concentration per Run 3	0.207 ppb	0.219 ppb	0.276 ppb	24.461 ppb	0.220 ppb	0.274 ppb	0.217 ppb	0.328 ppb	102.249 %
Concentration RSD	31.3 %	6.0 %	19.9 %	8.1 %	1.7 %	19.0 %	9.8 %	9.2 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.198 ppb	0.215 ppb	0.244 ppb	0.222 ppb	98.172 %	0.209 ppb	0.210 ppb	98.970 %	0.195 ppb
Concentration per Run 1	0.232 ppb	0.249 ppb	0.235 ppb	0.177 ppb	95.804 %	0.210 ppb	0.205 ppb	95.983 %	0.201 ppb
Concentration per Run 2	0.197 ppb	0.159 ppb	0.243 ppb	0.251 ppb	98.419 %	0.214 ppb	0.222 ppb	96.360 %	0.174 ppb
Concentration per Run 3	0.167 ppb	0.236 ppb	0.255 ppb	0.238 ppb	100.294 %	0.203 ppb	0.202 ppb	104.566 %	0.211 ppb
Concentration RSD	16.4 %	22.6 %	4.2 %	17.7 %	2.3 %	2.7 %	5.2 %	4.9 %	9.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.238 ppb	97.299 %	97.512 %	0.205 ppb	0.211 ppb	98.882 %
Concentration per Run 1	0.295 ppb	93.466 %	92.840 %	0.195 ppb	0.202 ppb	94.870 %
Concentration per Run 2	0.232 ppb	95.527 %	95.397 %	0.209 ppb	0.217 ppb	98.406 %
Concentration per Run 3	0.186 ppb	102.905 %	104.300 %	0.211 ppb	0.213 ppb	103.370 %
Concentration RSD	23.1 %	5.1 %	6.2 %	4.4 %	3.5 %	4.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 5 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: 1/100 Cal Rack: 0
 Analysis started at: 8/9/2023 6:10:31 AM Vial: 3

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.832 %	97.913 %	0.995 ppb	105.552 ppb	101.073 ppb	1.240 ppb	110.267 ppb	163.293 ppb	96.493 %
Concentration per Run 1	96.373 %	93.900 %	0.994 ppb	105.501 ppb	99.299 ppb	1.475 ppb	104.201 ppb	132.127 ppb	95.125 %
Concentration per Run 2	97.380 %	94.864 %	0.984 ppb	104.050 ppb	95.945 ppb	1.164 ppb	113.590 ppb	148.698 ppb	99.890 %
Concentration per Run 3	96.743 %	104.976 %	1.008 ppb	107.104 ppb	107.974 ppb	1.082 ppb	113.008 ppb	209.053 ppb	94.465 %
Concentration RSD	0.5 %	6.3 %	1.2 %	1.4 %	6.1 %	16.7 %	4.8 %	24.8 %	3.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.009 ppb	1.036 ppb	1.050 ppb	99.420 ppb	1.003 ppb	1.122 ppb	1.126 ppb	1.104 ppb	99.157 %
Concentration per Run 1	1.062 ppb	1.021 ppb	0.967 ppb	96.227 ppb	1.092 ppb	1.059 ppb	1.069 ppb	1.093 ppb	95.767 %
Concentration per Run 2	1.023 ppb	1.001 ppb	0.968 ppb	99.025 ppb	0.977 ppb	1.092 ppb	1.226 ppb	1.049 ppb	99.677 %
Concentration per Run 3	0.942 ppb	1.085 ppb	1.214 ppb	103.007 ppb	0.940 ppb	1.214 ppb	1.083 ppb	1.171 ppb	102.027 %
Concentration RSD	6.1 %	4.3 %	13.6 %	3.4 %	7.9 %	7.3 %	7.7 %	5.6 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.028 ppb	1.049 ppb	1.010 ppb	0.896 ppb	97.531 %	0.957 ppb	0.978 ppb	98.265 %	0.945 ppb
Concentration per Run 1	1.000 ppb	0.877 ppb	0.986 ppb	0.832 ppb	95.751 %	0.910 ppb	0.978 ppb	94.146 %	0.952 ppb
Concentration per Run 2	0.950 ppb	1.262 ppb	0.986 ppb	0.884 ppb	97.180 %	0.993 ppb	0.961 ppb	96.691 %	0.954 ppb
Concentration per Run 3	1.134 ppb	1.008 ppb	1.058 ppb	0.971 ppb	99.662 %	0.968 ppb	0.995 ppb	103.959 %	0.928 ppb
Concentration RSD	9.3 %	18.7 %	4.1 %	7.8 %	2.0 %	4.5 %	1.8 %	5.2 %	1.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.014 ppb	97.653 %	97.376 %	0.938 ppb	0.995 ppb	98.168 %
Concentration per Run 1	0.915 ppb	93.707 %	92.626 %	0.903 ppb	0.981 ppb	94.749 %
Concentration per Run 2	1.059 ppb	96.534 %	94.764 %	0.950 ppb	1.000 ppb	97.189 %
Concentration per Run 3	1.067 ppb	102.718 %	104.738 %	0.960 ppb	1.003 ppb	102.567 %
Concentration RSD	8.4 %	4.7 %	6.6 %	3.3 %	1.2 %	4.1 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 6 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: 10/1000 Cal Rack: 0
 Analysis started at: 8/9/2023 6:15:00 AM Vial: 4

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.551 %	93.258 %	10.478 ppb	1,127.429 ppb	1,154.368 ppb	12.537 ppb	1,138.713 ppb	1,164.725 ppb	93.971 %
Concentration per Run 1	93.776 %	88.603 %	10.540 ppb	1,137.898 ppb	1,181.269 ppb	12.835 ppb	1,115.433 ppb	1,200.572 ppb	94.998 %
Concentration per Run 2	93.465 %	96.549 %	10.727 ppb	1,115.208 ppb	1,130.990 ppb	10.713 ppb	1,089.037 ppb	1,088.129 ppb	92.742 %
Concentration per Run 3	93.412 %	94.623 %	10.166 ppb	1,129.182 ppb	1,150.845 ppb	14.062 ppb	1,211.670 ppb	1,205.475 ppb	94.171 %
Concentration RSD	0.2 %	4.4 %	2.7 %	1.0 %	2.2 %	13.5 %	5.7 %	5.7 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	10.889 ppb	10.786 ppb	11.425 ppb	1,086.554 ppb	11.161 ppb	11.228 ppb	11.055 ppb	11.607 ppb	94.499 %
Concentration per Run 1	10.614 ppb	10.593 ppb	11.109 ppb	1,035.122 ppb	10.758 ppb	10.777 ppb	11.100 ppb	11.343 ppb	94.099 %
Concentration per Run 2	11.294 ppb	11.154 ppb	11.427 ppb	1,130.750 ppb	11.678 ppb	11.683 ppb	11.436 ppb	11.807 ppb	92.240 %
Concentration per Run 3	10.760 ppb	10.612 ppb	11.739 ppb	1,093.790 ppb	11.049 ppb	11.223 ppb	10.627 ppb	11.672 ppb	97.159 %
Concentration RSD	3.3 %	3.0 %	2.8 %	4.4 %	4.2 %	4.0 %	3.7 %	2.1 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.495 ppb	11.059 ppb	10.412 ppb	10.170 ppb	94.242 %	10.427 ppb	10.370 ppb	95.959 %	9.771 ppb
Concentration per Run 1	10.316 ppb	10.422 ppb	10.042 ppb	9.840 ppb	93.803 %	10.352 ppb	10.242 ppb	93.583 %	9.346 ppb
Concentration per Run 2	10.531 ppb	10.728 ppb	10.489 ppb	10.232 ppb	92.604 %	10.627 ppb	10.501 ppb	93.977 %	10.055 ppb
Concentration per Run 3	10.637 ppb	12.027 ppb	10.705 ppb	10.437 ppb	96.319 %	10.303 ppb	10.366 ppb	100.317 %	9.913 ppb
Concentration RSD	1.6 %	7.7 %	3.2 %	3.0 %	2.0 %	1.7 %	1.2 %	3.9 %	3.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	10.496 ppb	95.841 %	95.691 %	10.108 ppb	10.432 ppb	96.404 %
Concentration per Run 1	10.346 ppb	92.721 %	91.929 %	9.809 ppb	10.291 ppb	93.382 %
Concentration per Run 2	10.627 ppb	95.123 %	93.692 %	10.290 ppb	10.618 ppb	95.102 %
Concentration per Run 3	10.516 ppb	99.677 %	101.453 %	10.226 ppb	10.386 ppb	100.729 %
Concentration RSD	1.3 %	3.7 %	5.3 %	2.6 %	1.6 %	4.0 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 7 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: 60/6000 Cal Rack: 0
 Analysis started at: 8/9/2023 6:19:29 AM Vial: 5

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.998 %	92.135 %	58.399 ppb	5,887.196 ppb	5,903.568 ppb	59.010 ppb	5,974.939 ppb	5,943.097 ppb	87.518 %
Concentration per Run 1	85.248 %	93.419 %	58.077 ppb	5,779.345 ppb	5,775.104 ppb	56.505 ppb	5,878.015 ppb	5,783.816 ppb	88.078 %
Concentration per Run 2	85.377 %	91.493 %	59.079 ppb	5,992.118 ppb	6,052.598 ppb	60.947 ppb	6,002.053 ppb	5,966.014 ppb	87.091 %
Concentration per Run 3	84.369 %	91.493 %	58.042 ppb	5,890.125 ppb	5,883.002 ppb	59.577 ppb	6,044.748 ppb	6,079.462 ppb	87.386 %
Concentration RSD	0.6 %	1.2 %	1.0 %	1.8 %	2.4 %	3.9 %	1.4 %	2.5 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.912 ppb	58.370 ppb	58.631 ppb	5,796.039 ppb	58.828 ppb	59.001 ppb	59.417 ppb	59.641 ppb	88.328 %
Concentration per Run 1	55.455 ppb	57.307 ppb	56.593 ppb	5,638.342 ppb	57.564 ppb	58.002 ppb	58.075 ppb	59.447 ppb	89.879 %
Concentration per Run 2	59.009 ppb	59.651 ppb	59.148 ppb	5,918.854 ppb	59.129 ppb	60.005 ppb	59.161 ppb	58.597 ppb	88.539 %
Concentration per Run 3	59.270 ppb	58.151 ppb	60.151 ppb	5,830.922 ppb	59.792 ppb	58.996 ppb	61.016 ppb	60.878 ppb	86.566 %
Concentration RSD	3.7 %	2.0 %	3.1 %	2.5 %	1.9 %	1.7 %	2.5 %	1.9 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.531 ppb	58.879 ppb	57.955 ppb	57.297 ppb	86.268 %	59.160 ppb	58.785 ppb	86.575 %	57.225 ppb
Concentration per Run 1	56.967 ppb	57.066 ppb	56.590 ppb	56.776 ppb	87.488 %	58.395 ppb	57.322 ppb	86.640 %	56.431 ppb
Concentration per Run 2	59.035 ppb	58.430 ppb	58.151 ppb	56.844 ppb	85.426 %	59.609 ppb	59.519 ppb	86.690 %	57.790 ppb
Concentration per Run 3	59.593 ppb	61.141 ppb	59.125 ppb	58.272 ppb	85.892 %	59.475 ppb	59.513 ppb	86.394 %	57.454 ppb
Concentration RSD	2.4 %	3.5 %	2.2 %	1.5 %	1.3 %	1.1 %	2.2 %	0.2 %	1.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.496 ppb	90.085 %	90.115 %	59.983 ppb	59.928 ppb	88.915 %
Concentration per Run 1	58.151 ppb	88.635 %	87.996 %	58.032 ppb	58.884 ppb	87.214 %
Concentration per Run 2	58.453 ppb	90.640 %	90.730 %	60.505 ppb	60.127 ppb	89.145 %
Concentration per Run 3	58.884 ppb	90.981 %	91.618 %	61.412 ppb	60.773 ppb	90.386 %
Concentration RSD	0.6 %	1.4 %	2.1 %	2.9 %	1.6 %	1.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 8 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: 120/12000 Cal Rack: 0
 Analysis started at: 8/9/2023 6:23:59 AM Vial: 6

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.967 %	86.597 %	120.761 ppb	12,045.730 ppb	12,035.341 ppb	120.282 ppb	12,000.880 ppb	12,014.032 ppb	84.617 %
Concentration per Run 1	80.253 %	82.103 %	123.339 ppb	12,526.966 ppb	12,545.444 ppb	124.958 ppb	12,037.610 ppb	12,311.371 ppb	85.229 %
Concentration per Run 2	80.050 %	92.215 %	117.255 ppb	11,276.247 ppb	11,172.467 ppb	117.442 ppb	11,721.544 ppb	11,569.421 ppb	85.612 %
Concentration per Run 3	79.598 %	85.473 %	121.687 ppb	12,333.978 ppb	12,388.111 ppb	118.445 ppb	12,243.486 ppb	12,161.302 ppb	83.011 %
Concentration RSD	0.4 %	5.9 %	2.6 %	5.6 %	6.2 %	3.4 %	2.2 %	3.3 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	120.970 ppb	120.749 ppb	120.565 ppb	12,094.768 ppb	120.489 ppb	120.396 ppb	120.202 ppb	120.045 ppb	82.154 %
Concentration per Run 1	120.970 ppb	121.507 ppb	123.010 ppb	12,286.496 ppb	120.841 ppb	120.994 ppb	119.888 ppb	117.920 ppb	82.179 %
Concentration per Run 2	115.169 ppb	114.554 ppb	113.299 ppb	11,428.559 ppb	114.893 ppb	116.279 ppb	117.247 ppb	118.612 ppb	84.558 %
Concentration per Run 3	126.771 ppb	126.187 ppb	125.387 ppb	12,569.250 ppb	125.732 ppb	123.916 ppb	123.472 ppb	123.602 ppb	79.724 %
Concentration RSD	4.8 %	4.8 %	5.3 %	4.9 %	4.5 %	3.2 %	2.6 %	2.6 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	120.693 ppb	120.472 ppb	120.988 ppb	121.338 ppb	79.816 %	120.385 ppb	120.577 ppb	81.556 %	121.407 ppb
Concentration per Run 1	117.937 ppb	117.957 ppb	119.698 ppb	116.045 ppb	79.577 %	118.484 ppb	118.531 ppb	81.134 %	120.531 ppb
Concentration per Run 2	118.838 ppb	118.652 ppb	119.357 ppb	123.000 ppb	80.298 %	120.915 ppb	120.919 ppb	80.720 %	121.232 ppb
Concentration per Run 3	125.303 ppb	124.806 ppb	123.909 ppb	124.969 ppb	79.573 %	121.755 ppb	122.280 ppb	82.815 %	122.458 ppb
Concentration RSD	3.3 %	3.1 %	2.1 %	3.9 %	0.5 %	1.4 %	1.6 %	1.4 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	120.711 ppb	86.633 %	87.226 %	134.633 ppb	130.399 ppb	83.304 %
Concentration per Run 1	118.289 ppb	84.709 %	85.041 %	134.633 ppb	130.399 ppb	81.234 %
Concentration per Run 2	122.769 ppb	86.331 %	86.790 %	140.145 ppb	133.433 ppb	83.183 %
Concentration per Run 3	121.073 ppb	88.860 %	89.846 %	141.380 ppb	133.878 ppb	85.494 %
Concentration RSD	1.9 %	2.4 %	2.8 %	2.8 %	2.8 %	2.6 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 9 User name: ALPHALAB\la2-icpmsq2 Comment: Sr Interference Check
 Analysis label: Sr 200ppb Rack: 4
 Analysis started at: 8/9/2023 6:28:29 AM Vial: 55

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.673 %	84.751 %	0.012 ppb	6.660 ppb	1.380 ppb	0.423 ppb	6.659 ppb	5.061 ppb	83.569 %
Concentration per Run 1	86.390 %	87.640 %	0.020 ppb	5.630 ppb	1.735 ppb	0.417 ppb	5.758 ppb	41.568 ppb	83.337 %
Concentration per Run 2	84.728 %	85.955 %	0.010 ppb	6.572 ppb	0.778 ppb	0.131 ppb	3.323 ppb	5.871 ppb	82.253 %
Concentration per Run 3	85.900 %	80.658 %	0.007 ppb	7.778 ppb	1.627 ppb	0.722 ppb	10.896 ppb	-32.255 ppb	85.117 %
Concentration RSD	1.0 %	4.3 %	56.0 %	16.2 %	38.0 %	69.9 %	58.1 %	729.4 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.007 ppb	0.021 ppb	0.102 ppb	7.383 ppb	0.010 ppb	0.093 ppb	0.093 ppb	0.770 ppb	84.308 %
Concentration per Run 1	-0.022 ppb	0.013 ppb	0.120 ppb	6.512 ppb	0.008 ppb	0.036 ppb	0.112 ppb	0.799 ppb	84.115 %
Concentration per Run 2	0.027 ppb	0.025 ppb	0.111 ppb	9.170 ppb	0.016 ppb	0.156 ppb	0.098 ppb	0.735 ppb	84.434 %
Concentration per Run 3	0.015 ppb	0.024 ppb	0.075 ppb	6.467 ppb	0.006 ppb	0.088 ppb	0.068 ppb	0.775 ppb	84.376 %
Concentration RSD	379.1 %	32.5 %	23.5 %	21.0 %	50.8 %	64.7 %	23.9 %	4.2 %	0.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.038 ppb	0.077 ppb	205.951 ppb	0.252 ppb	85.399 %	0.011 ppb	0.006 ppb	86.856 %	0.033 ppb
Concentration per Run 1	0.038 ppb	0.092 ppb	201.737 ppb	0.282 ppb	84.308 %	0.011 ppb	0.008 ppb	84.872 %	0.031 ppb
Concentration per Run 2	0.062 ppb	0.086 ppb	207.440 ppb	0.277 ppb	84.990 %	0.010 ppb	0.005 ppb	86.769 %	0.034 ppb
Concentration per Run 3	0.014 ppb	0.053 ppb	208.675 ppb	0.197 ppb	86.899 %	0.010 ppb	0.003 ppb	88.926 %	0.033 ppb
Concentration RSD	63.6 %	27.3 %	1.8 %	18.9 %	1.6 %	8.0 %	43.6 %	2.3 %	4.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.027 ppb	89.181 %	89.037 %	0.385 ppb	0.018 ppb	91.520 %
Concentration per Run 1	0.024 ppb	87.383 %	86.561 %	0.383 ppb	0.020 ppb	89.193 %
Concentration per Run 2	0.035 ppb	89.672 %	89.834 %	0.440 ppb	0.019 ppb	91.780 %
Concentration per Run 3	0.023 ppb	90.488 %	90.716 %	0.330 ppb	0.015 ppb	93.585 %
Concentration RSD	22.9 %	1.8 %	2.5 %	14.3 %	12.7 %	2.4 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 10 User name: ALPHALAB\la2-icpmsq2 Comment: ICV
 Analysis label: ICV Rack: 0
 Analysis started at: 8/9/2023 6:33:02 AM Vial: 7

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.170 %	83.387 %	48.713 ppb	5,082.947 ppb	5,166.928 ppb	52.362 ppb	5,018.610 ppb	4,942.452 ppb	84.465 %
Concentration per Run 1	83.828 %	73.435 %	49.405 ppb	5,499.948 ppb	5,654.097 ppb	57.623 ppb	5,232.458 ppb	4,982.230 ppb	83.759 %
Concentration per Run 2	84.594 %	91.011 %	47.748 ppb	4,721.314 ppb	4,723.445 ppb	48.723 ppb	4,845.050 ppb	4,847.603 ppb	86.489 %
Concentration per Run 3	84.089 %	85.714 %	48.986 ppb	5,027.579 ppb	5,123.241 ppb	50.741 ppb	4,978.322 ppb	4,997.522 ppb	83.148 %
Recovery Percentage 1			97.426 %	101.659 %	103.339 %	104.725 %	100.372 %	98.849 %	
Concentration RSD	0.5 %	10.8 %	1.8 %	7.7 %	9.0 %	8.9 %	3.9 %	1.7 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.916 ppb	49.020 ppb	49.772 ppb	4,850.756 ppb	48.330 ppb	49.863 ppb	48.689 ppb	49.922 ppb	85.685 %
Concentration per Run 1	50.292 ppb	50.423 ppb	51.694 ppb	4,935.134 ppb	49.626 ppb	51.149 ppb	49.296 ppb	50.412 ppb	83.936 %
Concentration per Run 2	47.526 ppb	46.963 ppb	47.460 ppb	4,679.099 ppb	46.436 ppb	48.184 ppb	47.792 ppb	49.217 ppb	87.137 %
Concentration per Run 3	48.930 ppb	49.674 ppb	50.161 ppb	4,938.035 ppb	48.929 ppb	50.257 ppb	48.979 ppb	50.138 ppb	85.980 %
Recovery Percentage 1	97.832 %	98.040 %	99.543 %	97.015 %	96.660 %	99.727 %	97.378 %	99.844 %	
Concentration RSD	2.8 %	3.7 %	4.3 %	3.1 %	3.5 %	3.1 %	1.6 %	1.3 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	46.227 ppb	49.153 ppb	47.214 ppb	47.657 ppb	83.146 %	49.193 ppb	48.924 ppb	84.019 %	48.293 ppb
Concentration per Run 1	45.270 ppb	48.745 ppb	46.631 ppb	46.416 ppb	82.340 %	48.674 ppb	48.254 ppb	82.933 %	47.331 ppb
Concentration per Run 2	46.365 ppb	48.240 ppb	46.921 ppb	47.060 ppb	83.882 %	49.440 ppb	49.222 ppb	84.274 %	48.196 ppb
Concentration per Run 3	47.045 ppb	50.474 ppb	48.092 ppb	49.493 ppb	83.215 %	49.464 ppb	49.295 ppb	84.850 %	49.352 ppb
Recovery Percentage 1	92.454 %	98.306 %	94.429 %	95.313 %		98.385 %	97.847 %		96.585 %
Concentration RSD	1.9 %	2.4 %	1.6 %	3.4 %	0.9 %	0.9 %	1.2 %	1.2 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	47.125 ppb	88.750 %	88.555 %	48.189 ppb	49.908 ppb	88.150 %
Concentration per Run 1	46.264 ppb	86.810 %	86.152 %	46.322 ppb	49.278 ppb	85.323 %
Concentration per Run 2	47.502 ppb	88.420 %	88.090 %	48.784 ppb	50.169 ppb	88.252 %
Concentration per Run 3	47.609 ppb	91.019 %	91.422 %	49.461 ppb	50.276 ppb	90.876 %
Recovery Percentage 1	94.250 %			96.378 %	99.816 %	
Concentration RSD	1.6 %	2.4 %	3.0 %	3.4 %	1.1 %	3.2 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 11 User name ALPHALAB\la2-icpmsq2 Comment ICB
 Analysis label: ICB Rack 0
 Analysis started at: 8/9/2023 6:37:32 AM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.672 %	83.547 %	0.013 ppb	3.092 ppb	0.477 ppb	0.453 ppb	2.144 ppb	1.762 ppb	86.188 %
Concentration per Run 1	88.346 %	84.270 %	0.017 ppb	3.137 ppb	-0.202 ppb	0.301 ppb	2.795 ppb	2.168 ppb	85.499 %
Concentration per Run 2	88.618 %	82.343 %	0.014 ppb	3.551 ppb	1.336 ppb	0.080 ppb	2.090 ppb	0.051 ppb	86.815 %
Concentration per Run 3	89.053 %	84.029 %	0.007 ppb	2.587 ppb	0.297 ppb	0.978 ppb	1.546 ppb	3.066 ppb	86.251 %
Recovery Percentage 1			2.505 %	3.092 %	0.681 %	4.528 %	2.144 %	1.762 %	
Concentration RSD	0.4 %	1.3 %	42.7 %	15.6 %	164.5 %	103.4 %	29.2 %	87.9 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.010 ppb	0.005 ppb	0.118 ppb	11.801 ppb	0.007 ppb	0.095 ppb	0.084 ppb	0.501 ppb	84.450 %
Concentration per Run 1	-0.021 ppb	0.000 ppb	0.103 ppb	14.173 ppb	0.008 ppb	0.053 ppb	0.073 ppb	0.491 ppb	83.134 %
Concentration per Run 2	-0.021 ppb	0.004 ppb	0.045 ppb	11.933 ppb	0.010 ppb	0.108 ppb	0.090 ppb	0.491 ppb	84.564 %
Concentration per Run 3	0.013 ppb	0.013 ppb	0.205 ppb	9.296 ppb	0.002 ppb	0.126 ppb	0.089 ppb	0.521 ppb	85.651 %
Recovery Percentage 1	-0.194 %	0.544 %	11.779 %	23.601 %	1.346 %	4.774 %	8.403 %	10.015 %	
Concentration RSD	203.5 %	126.1 %	68.6 %	20.7 %	60.2 %	39.9 %	11.0 %	3.5 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.040 ppb	0.111 ppb	0.002 ppb	0.150 ppb	85.489 %	0.004 ppb	0.002 ppb	85.457 %	0.067 ppb
Concentration per Run 1	0.014 ppb	0.128 ppb	0.001 ppb	0.143 ppb	82.580 %	0.006 ppb	0.002 ppb	81.792 %	0.068 ppb
Concentration per Run 2	0.066 ppb	0.054 ppb	0.003 ppb	0.166 ppb	87.676 %	0.003 ppb	0.002 ppb	87.168 %	0.068 ppb
Concentration per Run 3	0.041 ppb	0.151 ppb	0.003 ppb	0.140 ppb	86.211 %	0.003 ppb	0.001 ppb	87.412 %	0.065 ppb
Recovery Percentage 1	8.034 %	2.225 %	0.022 %	7.488 %		0.984 %	0.794 %		1.674 %
Concentration RSD	63.9 %	45.6 %	56.1 %	9.5 %	3.1 %	34.9 %	57.3 %	3.7 %	3.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.015 ppb	89.242 %	89.025 %	0.336 ppb	0.010 ppb	91.706 %
Concentration per Run 1	0.014 ppb	85.876 %	85.284 %	0.325 ppb	0.010 ppb	88.381 %
Concentration per Run 2	0.016 ppb	89.786 %	89.367 %	0.371 ppb	0.012 ppb	92.162 %
Concentration per Run 3	0.016 ppb	92.063 %	92.423 %	0.311 ppb	0.009 ppb	94.573 %
Recovery Percentage 1	3.068 %			33.555 %	1.039 %	
Concentration RSD	9.3 %	3.5 %	4.0 %	9.4 %	18.1 %	3.4 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 12 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: LLCCV Rack 4
 Analysis started at: 8/9/2023 6:46:28 AM Vial 51

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.539 %	92.937 %	0.329 ppb	128.618 ppb	85.388 ppb	15.937 ppb	111.937 ppb	407.554 ppb	89.657 %
Concentration per Run 1	91.603 %	99.438 %	0.373 ppb	121.346 ppb	76.429 ppb	12.925 ppb	103.716 ppb	392.387 ppb	89.184 %
Concentration per Run 2	91.996 %	90.289 %	0.319 ppb	128.463 ppb	88.748 ppb	15.010 ppb	100.769 ppb	413.108 ppb	90.550 %
Concentration per Run 3	91.019 %	89.085 %	0.296 ppb	136.044 ppb	90.986 ppb	19.877 ppb	131.325 ppb	417.167 ppb	89.236 %
Recovery Percentage 1			65.860 %	128.618 %	121.983 %	159.371 %	111.937 %	407.554 %	
Concentration RSD	0.5 %	6.1 %	12.0 %	5.7 %	9.2 %	22.4 %	15.1 %	3.3 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	5.097 ppb	0.600 ppb	1.297 ppb	28.322 ppb	0.538 ppb	2.302 ppb	1.284 ppb	13.207 ppb	87.195 %
Concentration per Run 1	4.671 ppb	0.553 ppb	1.301 ppb	23.269 ppb	0.470 ppb	2.142 ppb	1.249 ppb	12.438 ppb	90.735 %
Concentration per Run 2	5.486 ppb	0.611 ppb	1.329 ppb	31.206 ppb	0.575 ppb	2.323 ppb	1.243 ppb	13.532 ppb	81.705 %
Concentration per Run 3	5.132 ppb	0.635 ppb	1.262 ppb	30.490 ppb	0.569 ppb	2.442 ppb	1.359 ppb	13.650 ppb	89.145 %
Recovery Percentage 1	101.930 %	59.974 %	129.709 %	56.644 %	107.627 %	115.112 %	128.382 %	132.068 %	
Concentration RSD	8.0 %	7.0 %	2.6 %	15.5 %	11.0 %	6.6 %	5.1 %	5.1 %	5.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.517 ppb	4.904 ppb	0.651 ppb	2.122 ppb	89.637 %	0.246 ppb	0.224 ppb	87.440 %	4.069 ppb
Concentration per Run 1	0.509 ppb	4.691 ppb	0.629 ppb	1.994 ppb	88.605 %	0.241 ppb	0.216 ppb	85.435 %	4.048 ppb
Concentration per Run 2	0.553 ppb	5.215 ppb	0.660 ppb	2.120 ppb	89.106 %	0.244 ppb	0.211 ppb	87.345 %	4.065 ppb
Concentration per Run 3	0.488 ppb	4.806 ppb	0.665 ppb	2.252 ppb	91.201 %	0.254 ppb	0.245 ppb	89.540 %	4.093 ppb
Recovery Percentage 1	103.308 %	98.083 %	130.244 %	106.105 %		61.560 %	111.972 %		101.717 %
Concentration RSD	6.5 %	5.6 %	3.0 %	6.1 %	1.5 %	2.8 %	8.2 %	2.3 %	0.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.547 ppb	91.456 %	90.591 %	0.592 ppb	0.567 ppb	93.123 %
Concentration per Run 1	0.619 ppb	88.968 %	87.287 %	0.585 ppb	0.561 ppb	90.815 %
Concentration per Run 2	0.536 ppb	91.375 %	90.367 %	0.586 ppb	0.577 ppb	92.959 %
Concentration per Run 3	0.487 ppb	94.025 %	94.119 %	0.606 ppb	0.564 ppb	95.594 %
Recovery Percentage 1	109.412 %			118.398 %	113.424 %	
Concentration RSD	12.2 %	2.8 %	3.8 %	2.0 %	1.5 %	2.6 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 13 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: ICSA Rack: 4
 Analysis started at: 8/9/2023 6:51:00 AM Vial: 53

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.772 %	82.424 %	0.010 ppb	55,628.220 ppb	21,151.958 ppb	20,368.481 ppb	20,794.706 ppb	61,220.116 ppb	80.490 %
Concentration per Run 1	83.911 %	76.806 %	0.006 ppb	55,843.707 ppb	21,113.195 ppb	20,571.076 ppb	21,001.734 ppb	61,317.996 ppb	81.336 %
Concentration per Run 2	82.236 %	84.751 %	0.012 ppb	56,002.388 ppb	21,347.417 ppb	20,000.540 ppb	20,189.169 ppb	60,101.578 ppb	78.484 %
Concentration per Run 3	82.169 %	85.714 %	0.013 ppb	55,038.564 ppb	20,995.263 ppb	20,533.828 ppb	21,193.215 ppb	62,240.773 ppb	81.652 %
Recovery Percentage 1			2.030 %	55,628.220 %	30,217.083 %	203,684.814 %	20,794.706 %	61,220.116 %	
Concentration RSD	1.2 %	5.9 %	36.9 %	0.9 %	0.8 %	1.6 %	2.6 %	1.8 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.019 ppb	0.372 ppb	1.026 ppb	50,078.718 ppb	0.443 ppb	0.770 ppb	0.338 ppb	1.980 ppb	78.756 %
Concentration per Run 1	-0.019 ppb	0.399 ppb	0.885 ppb	49,442.400 ppb	0.437 ppb	0.755 ppb	0.283 ppb	1.906 ppb	79.982 %
Concentration per Run 2	-0.018 ppb	0.359 ppb	1.124 ppb	51,370.011 ppb	0.441 ppb	0.770 ppb	0.399 ppb	1.967 ppb	73.627 %
Concentration per Run 3	-0.021 ppb	0.357 ppb	1.069 ppb	49,423.743 ppb	0.451 ppb	0.785 ppb	0.333 ppb	2.067 ppb	82.659 %
Recovery Percentage 1	-0.388 %	37.172 %	102.589 %	100,157.436 %	88.632 %	38.496 %	33.815 %	39.603 %	
Concentration RSD	7.7 %	6.4 %	12.2 %	2.2 %	1.6 %	2.0 %	17.3 %	4.1 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.093 ppb	0.921 ppb	0.561 ppb	444.197 ppb	75.262 %	0.010 ppb	0.098 ppb	78.301 %	0.052 ppb
Concentration per Run 1	0.132 ppb	0.961 ppb	0.557 ppb	428.912 ppb	74.541 %	0.007 ppb	0.102 ppb	76.068 %	0.059 ppb
Concentration per Run 2	0.061 ppb	0.972 ppb	0.558 ppb	449.357 ppb	73.194 %	0.011 ppb	0.091 ppb	77.199 %	0.047 ppb
Concentration per Run 3	0.085 ppb	0.829 ppb	0.567 ppb	454.322 ppb	78.053 %	0.012 ppb	0.101 ppb	81.637 %	0.049 ppb
Recovery Percentage 1	18.587 %	18.414 %	5.610 %	22,209.842 %		2.472 %	49.018 %		1.290 %
Concentration RSD	39.1 %	8.7 %	1.0 %	3.0 %	3.3 %	27.4 %	6.3 %	3.8 %	13.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.322 ppb	80.964 %	79.502 %	0.059 ppb	0.370 ppb	79.810 %
Concentration per Run 1	0.287 ppb	77.436 %	76.213 %	0.046 ppb	0.369 ppb	76.116 %
Concentration per Run 2	0.319 ppb	80.952 %	79.068 %	0.070 ppb	0.372 ppb	80.396 %
Concentration per Run 3	0.361 ppb	84.504 %	83.224 %	0.061 ppb	0.368 ppb	82.917 %
Recovery Percentage 1	64.404 %			5.881 %	36.984 %	
Concentration RSD	11.6 %	4.4 %	4.4 %	20.2 %	0.6 %	4.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 14 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: Rinse Rack 0
 Analysis started at: 8/9/2023 6:55:32 AM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.957 %	87.640 %	0.009 ppb	5.534 ppb	1.251 ppb	2.758 ppb	4.528 ppb	4.707 ppb	85.048 %
Concentration per Run 1	86.161 %	89.807 %	0.012 ppb	6.101 ppb	1.459 ppb	3.336 ppb	5.306 ppb	6.995 ppb	82.956 %
Concentration per Run 2	87.869 %	87.159 %	0.011 ppb	4.793 ppb	0.289 ppb	2.414 ppb	3.581 ppb	2.149 ppb	87.138 %
Concentration per Run 3	86.840 %	85.955 %	0.004 ppb	5.707 ppb	2.006 ppb	2.525 ppb	4.697 ppb	4.977 ppb	85.051 %
Concentration RSD	1.0 %	2.2 %	46.7 %	12.1 %	70.1 %	18.2 %	19.3 %	51.7 %	2.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.002 ppb	0.085 ppb	0.381 ppb	105.422 ppb	0.007 ppb	0.657 ppb	0.224 ppb	3.516 ppb	82.672 %
Concentration per Run 1	0.013 ppb	0.100 ppb	0.434 ppb	103.100 ppb	0.004 ppb	0.518 ppb	0.179 ppb	3.484 ppb	82.956 %
Concentration per Run 2	-0.006 ppb	0.070 ppb	0.393 ppb	100.290 ppb	0.006 ppb	0.706 ppb	0.252 ppb	3.350 ppb	79.481 %
Concentration per Run 3	-0.001 ppb	0.086 ppb	0.316 ppb	112.877 ppb	0.012 ppb	0.746 ppb	0.240 ppb	3.714 ppb	85.579 %
Concentration RSD	513.7 %	17.6 %	15.6 %	6.3 %	52.1 %	18.5 %	17.4 %	5.2 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.003 ppb	0.009 ppb	0.007 ppb	0.792 ppb	85.984 %	0.002 ppb	0.001 ppb	85.421 %	0.083 ppb
Concentration per Run 1	-0.003 ppb	0.016 ppb	0.007 ppb	0.838 ppb	85.255 %	0.003 ppb	0.002 ppb	84.973 %	0.074 ppb
Concentration per Run 2	0.008 ppb	-0.003 ppb	0.007 ppb	0.944 ppb	86.709 %	0.002 ppb	0.001 ppb	83.386 %	0.085 ppb
Concentration per Run 3	0.003 ppb	0.012 ppb	0.008 ppb	0.595 ppb	85.986 %	0.002 ppb	0.000 ppb	87.903 %	0.089 ppb
Concentration RSD	219.0 %	114.5 %	5.4 %	22.6 %	0.8 %	13.6 %	140.6 %	2.7 %	9.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.083 ppb	90.244 %	89.495 %	0.036 ppb	0.011 ppb	92.862 %
Concentration per Run 1	0.079 ppb	88.627 %	87.290 %	0.025 ppb	0.011 ppb	91.370 %
Concentration per Run 2	0.080 ppb	89.777 %	88.162 %	0.043 ppb	0.010 ppb	92.568 %
Concentration per Run 3	0.091 ppb	92.328 %	93.035 %	0.039 ppb	0.013 ppb	94.649 %
Concentration RSD	7.6 %	2.1 %	3.5 %	26.8 %	13.9 %	1.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 15 User name ALPHALAB\la2-icpmsq2 Comment CCV/MCCV
 Analysis label: CCV Rack 0
 Analysis started at: 8/9/2023 6:59:59 AM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.748 %	89.406 %	59.628 ppb	6,078.806 ppb	6,190.237 ppb	60.495 ppb	6,063.581 ppb	6,026.973 ppb	87.537 %
Concentration per Run 1	87.046 %	94.141 %	60.080 ppb	5,917.724 ppb	6,095.969 ppb	57.092 ppb	5,867.999 ppb	5,902.348 ppb	87.925 %
Concentration per Run 2	86.846 %	93.419 %	58.098 ppb	5,928.262 ppb	6,018.275 ppb	63.556 ppb	6,149.313 ppb	5,999.197 ppb	89.139 %
Concentration per Run 3	86.352 %	80.658 %	60.706 ppb	6,390.431 ppb	6,456.467 ppb	60.837 ppb	6,173.431 ppb	6,179.375 ppb	85.548 %
Recovery Percentage 1			99.380 %	101.313 %	103.171 %	100.825 %	101.060 %	100.450 %	
Concentration RSD	0.4 %	8.5 %	2.3 %	4.4 %	3.8 %	5.4 %	2.8 %	2.3 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.648 ppb	60.357 ppb	59.652 ppb	5,994.059 ppb	60.774 ppb	61.054 ppb	62.133 ppb	61.159 ppb	84.845 %
Concentration per Run 1	58.139 ppb	60.148 ppb	59.430 ppb	5,948.556 ppb	59.983 ppb	59.791 ppb	61.830 ppb	60.637 ppb	84.149 %
Concentration per Run 2	57.904 ppb	57.746 ppb	58.045 ppb	5,756.798 ppb	58.342 ppb	58.593 ppb	59.370 ppb	59.837 ppb	88.523 %
Concentration per Run 3	62.900 ppb	63.175 ppb	61.480 ppb	6,276.824 ppb	63.996 ppb	64.776 ppb	65.199 ppb	63.002 ppb	81.864 %
Recovery Percentage 1	99.413 %	100.594 %	99.419 %	99.901 %	101.290 %	101.756 %	103.555 %	101.931 %	
Concentration RSD	4.7 %	4.5 %	2.9 %	4.4 %	4.8 %	5.4 %	4.7 %	2.7 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.703 ppb	57.834 ppb	59.196 ppb	59.835 ppb	84.347 %	59.964 ppb	59.713 ppb	86.246 %	59.258 ppb
Concentration per Run 1	59.315 ppb	56.856 ppb	58.728 ppb	57.863 ppb	83.208 %	58.839 ppb	58.702 ppb	84.875 %	58.496 ppb
Concentration per Run 2	59.485 ppb	57.790 ppb	58.370 ppb	60.574 ppb	84.992 %	60.599 ppb	60.023 ppb	86.124 %	59.645 ppb
Concentration per Run 3	60.311 ppb	58.856 ppb	60.489 ppb	61.068 ppb	84.841 %	60.454 ppb	60.414 ppb	87.740 %	59.635 ppb
Recovery Percentage 1	99.506 %	96.390 %	98.659 %	99.725 %		99.940 %	99.522 %		98.764 %
Concentration RSD	0.9 %	1.7 %	1.9 %	2.9 %	1.2 %	1.6 %	1.5 %	1.7 %	1.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.682 ppb	91.291 %	90.988 %	60.384 ppb	61.484 ppb	88.843 %
Concentration per Run 1	59.102 ppb	89.365 %	89.105 %	57.293 ppb	59.991 ppb	87.189 %
Concentration per Run 2	60.794 ppb	91.268 %	90.644 %	61.473 ppb	61.997 ppb	88.356 %
Concentration per Run 3	59.151 ppb	93.240 %	93.215 %	62.387 ppb	62.462 ppb	90.984 %
Recovery Percentage 1	99.470 %			100.640 %	102.473 %	
Concentration RSD	1.6 %	2.1 %	2.3 %	4.5 %	2.1 %	2.2 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 16 User name ALPHALAB\la2-icpmsq2 Comment CCB
 Analysis label: CCB Rack 0
 Analysis started at: 8/9/2023 7:04:31 AM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.924 %	91.974 %	0.007 ppb	2.697 ppb	0.154 ppb	0.143 ppb	1.585 ppb	1.030 ppb	90.688 %
Concentration per Run 1	92.777 %	94.382 %	0.011 ppb	2.162 ppb	-0.477 ppb	-0.075 ppb	0.165 ppb	0.692 ppb	91.744 %
Concentration per Run 2	91.382 %	82.343 %	0.006 ppb	3.991 ppb	0.549 ppb	0.139 ppb	5.738 ppb	0.898 ppb	89.462 %
Concentration per Run 3	91.614 %	99.197 %	0.005 ppb	1.939 ppb	0.390 ppb	0.365 ppb	-1.147 ppb	1.500 ppb	90.857 %
Recovery Percentage 1			1.475 %	2.697 %	0.220 %	1.429 %	1.585 %	1.030 %	
Concentration RSD	0.8 %	9.4 %	42.5 %	41.7 %	359.0 %	153.9 %	230.6 %	40.7 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.020 ppb	0.026 ppb	0.049 ppb	13.030 ppb	0.008 ppb	0.072 ppb	0.043 ppb	0.497 ppb	88.901 %
Concentration per Run 1	0.042 ppb	0.013 ppb	0.049 ppb	12.549 ppb	0.007 ppb	0.069 ppb	0.043 ppb	0.474 ppb	87.376 %
Concentration per Run 2	0.018 ppb	0.031 ppb	0.033 ppb	13.726 ppb	0.009 ppb	0.083 ppb	0.055 ppb	0.529 ppb	89.984 %
Concentration per Run 3	0.001 ppb	0.035 ppb	0.065 ppb	12.814 ppb	0.007 ppb	0.064 ppb	0.030 ppb	0.490 ppb	89.343 %
Recovery Percentage 1	0.410 %	2.643 %	4.884 %	26.059 %	1.606 %	3.603 %	4.284 %	9.950 %	
Concentration RSD	101.6 %	45.2 %	32.8 %	4.7 %	14.7 %	14.1 %	30.1 %	5.7 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.014 ppb	0.055 ppb	0.004 ppb	0.213 ppb	88.128 %	0.004 ppb	0.002 ppb	86.908 %	0.052 ppb
Concentration per Run 1	0.016 ppb	0.069 ppb	0.005 ppb	0.221 ppb	89.159 %	0.004 ppb	0.002 ppb	88.260 %	0.045 ppb
Concentration per Run 2	0.012 ppb	0.105 ppb	0.004 ppb	0.209 ppb	88.734 %	0.006 ppb	0.002 ppb	89.105 %	0.056 ppb
Concentration per Run 3	0.013 ppb	-0.009 ppb	0.002 ppb	0.210 ppb	86.492 %	0.003 ppb	0.001 ppb	83.359 %	0.056 ppb
Recovery Percentage 1	2.745 %	1.098 %	0.036 %	10.661 %		1.023 %	0.916 %		1.310 %
Concentration RSD	16.4 %	105.9 %	39.0 %	3.3 %	1.6 %	34.2 %	55.0 %	3.6 %	12.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.019 ppb	89.978 %	89.283 %	0.333 ppb	0.010 ppb	92.409 %
Concentration per Run 1	0.016 ppb	90.360 %	89.906 %	0.333 ppb	0.010 ppb	91.654 %
Concentration per Run 2	0.023 ppb	92.040 %	91.675 %	0.364 ppb	0.012 ppb	94.123 %
Concentration per Run 3	0.017 ppb	87.534 %	86.268 %	0.301 ppb	0.008 ppb	91.451 %
Recovery Percentage 1	3.739 %			33.275 %	0.990 %	
Concentration RSD	19.6 %	2.5 %	3.1 %	9.4 %	16.5 %	1.6 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 17 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343170-02 6020TL Rack 1
 Analysis started at: 8/9/2023 7:09:38 AM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.855 %	89.968 %	0.019 ppb	23,721.185 ppb	9,758.916 ppb	112.696 ppb	3,522.496 ppb	53,113.369 ppb	89.255 %
Concentration per Run 1	91.075 %	91.252 %	0.016 ppb	23,099.404 ppb	9,460.315 ppb	108.567 ppb	3,420.546 ppb	51,238.695 ppb	87.723 %
Concentration per Run 2	91.367 %	91.252 %	0.015 ppb	22,847.774 ppb	9,349.782 ppb	108.692 ppb	3,460.022 ppb	52,393.964 ppb	92.436 %
Concentration per Run 3	90.124 %	87.400 %	0.025 ppb	25,216.376 ppb	10,466.650 ppb	120.829 ppb	3,686.920 ppb	55,707.447 ppb	87.607 %
Concentration RSD	0.7 %	2.5 %	30.0 %	5.5 %	6.3 %	6.3 %	4.1 %	4.4 %	3.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.899 ppb	0.529 ppb	533.626 ppb	1,170.399 ppb	0.728 ppb	1.994 ppb	6.119 ppb	101.594 ppb	85.856 %
Concentration per Run 1	1.938 ppb	0.501 ppb	519.528 ppb	1,137.480 ppb	0.721 ppb	1.806 ppb	5.996 ppb	97.790 ppb	84.608 %
Concentration per Run 2	1.667 ppb	0.511 ppb	518.464 ppb	1,148.473 ppb	0.692 ppb	2.000 ppb	6.247 ppb	103.247 ppb	85.039 %
Concentration per Run 3	2.093 ppb	0.574 ppb	562.885 ppb	1,225.244 ppb	0.771 ppb	2.175 ppb	6.113 ppb	103.744 ppb	87.920 %
Concentration RSD	11.4 %	7.5 %	4.7 %	4.1 %	5.5 %	9.2 %	2.1 %	3.3 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.373 ppb	0.526 ppb	149.905 ppb	2.377 ppb	80.904 %	0.008 ppb	0.115 ppb	82.850 %	0.805 ppb
Concentration per Run 1	2.206 ppb	0.480 ppb	146.214 ppb	2.395 ppb	79.159 %	0.009 ppb	0.112 ppb	82.506 %	0.787 ppb
Concentration per Run 2	2.505 ppb	0.653 ppb	151.326 ppb	2.391 ppb	79.353 %	0.008 ppb	0.119 ppb	77.788 %	0.819 ppb
Concentration per Run 3	2.407 ppb	0.444 ppb	152.175 ppb	2.346 ppb	84.200 %	0.008 ppb	0.112 ppb	88.257 %	0.808 ppb
Concentration RSD	6.4 %	21.2 %	2.2 %	1.1 %	3.5 %	12.3 %	3.7 %	6.3 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	30.527 ppb	87.861 %	86.781 %	0.120 ppb	1.116 ppb	83.327 %
Concentration per Run 1	29.753 ppb	86.400 %	85.036 %	0.098 ppb	1.082 ppb	81.481 %
Concentration per Run 2	31.214 ppb	84.213 %	82.676 %	0.135 ppb	1.149 ppb	80.155 %
Concentration per Run 3	30.613 ppb	92.969 %	92.631 %	0.127 ppb	1.119 ppb	88.345 %
Concentration RSD	2.4 %	5.2 %	6.0 %	16.4 %	3.0 %	5.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 18 User name ALPHALAB\1a2-icpmsq Comment <Comment>
 Analysis label: L2343170-03 6020TL Rack 1
 Analysis started at: 8/9/2023 7:14:06 AM Vial 2

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.975 %	94.221 %	0.012 ppb	6,206.903 ppb	27,117.943 ppb	123.054 ppb	6,720.631 ppb	107,433.842 ppb	92.858 %
Concentration per Run 1	92.745 %	94.141 %	0.012 ppb	6,202.026 ppb	26,669.146 ppb	122.036 ppb	6,751.577 ppb	106,759.778 ppb	92.625 %
Concentration per Run 2	91.538 %	97.753 %	0.014 ppb	5,824.956 ppb	25,925.664 ppb	118.067 ppb	6,389.752 ppb	102,346.326 ppb	93.871 %
Concentration per Run 3	91.642 %	90.770 %	0.010 ppb	6,593.726 ppb	28,759.019 ppb	129.058 ppb	7,020.563 ppb	113,195.423 ppb	92.078 %
Concentration RSD	0.7 %	3.7 %	15.6 %	6.2 %	5.4 %	4.5 %	4.7 %	5.1 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.475 ppb	0.849 ppb	42.681 ppb	246.759 ppb	0.188 ppb	1.090 ppb	12.161 ppb	19.360 ppb	87.982 %
Concentration per Run 1	1.531 ppb	0.844 ppb	42.836 ppb	236.695 ppb	0.184 ppb	1.044 ppb	12.307 ppb	19.159 ppb	87.514 %
Concentration per Run 2	1.408 ppb	0.784 ppb	40.506 ppb	253.286 ppb	0.208 ppb	1.130 ppb	11.935 ppb	19.377 ppb	88.515 %
Concentration per Run 3	1.487 ppb	0.920 ppb	44.700 ppb	250.296 ppb	0.172 ppb	1.096 ppb	12.240 ppb	19.544 ppb	87.916 %
Concentration RSD	4.2 %	8.1 %	4.9 %	3.6 %	9.6 %	4.0 %	1.6 %	1.0 %	0.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.254 ppb	5.024 ppb	242.348 ppb	1.351 ppb	84.156 %	0.012 ppb	0.028 ppb	87.028 %	0.151 ppb
Concentration per Run 1	1.271 ppb	4.838 ppb	238.322 ppb	1.219 ppb	83.496 %	0.012 ppb	0.034 ppb	88.137 %	0.172 ppb
Concentration per Run 2	1.213 ppb	4.797 ppb	238.955 ppb	1.567 ppb	85.155 %	0.012 ppb	0.027 ppb	84.585 %	0.135 ppb
Concentration per Run 3	1.279 ppb	5.438 ppb	249.766 ppb	1.266 ppb	83.816 %	0.010 ppb	0.024 ppb	88.362 %	0.145 ppb
Concentration RSD	2.8 %	7.1 %	2.7 %	14.0 %	1.0 %	9.1 %	18.5 %	2.4 %	12.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	95.358 ppb	92.679 %	91.057 %	0.090 ppb	2.367 ppb	84.344 %
Concentration per Run 1	94.451 ppb	92.115 %	90.335 %	0.076 ppb	2.322 ppb	82.862 %
Concentration per Run 2	95.033 ppb	89.664 %	87.006 %	0.101 ppb	2.383 ppb	81.796 %
Concentration per Run 3	96.590 ppb	96.260 %	95.830 %	0.093 ppb	2.395 ppb	88.375 %
Concentration RSD	1.2 %	3.6 %	4.9 %	14.0 %	1.6 %	4.2 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 19 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343145-02 6020TL Rack 1
 Analysis started at: 8/9/2023 7:18:34 AM Vial 13

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.854 %	86.196 %	0.014 ppb	70,255.019 ppb	14,807.133 ppb	18.440 ppb	1,371.926 ppb	54,394.742 ppb	84.913 %
Concentration per Run 1	85.092 %	87.640 %	0.010 ppb	68,691.770 ppb	14,690.165 ppb	18.775 ppb	1,281.627 ppb	52,313.787 ppb	84.776 %
Concentration per Run 2	85.290 %	85.955 %	0.015 ppb	67,868.309 ppb	14,101.947 ppb	17.254 ppb	1,360.489 ppb	52,665.626 ppb	87.291 %
Concentration per Run 3	84.181 %	84.992 %	0.018 ppb	74,204.976 ppb	15,629.287 ppb	19.290 ppb	1,473.662 ppb	58,204.812 ppb	82.671 %
Concentration RSD	0.7 %	1.6 %	29.3 %	4.9 %	5.2 %	5.7 %	7.0 %	6.1 %	2.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.568 ppb	0.247 ppb	559.062 ppb	98.355 ppb	0.295 ppb	2.238 ppb	2.308 ppb	1.562 ppb	79.558 %
Concentration per Run 1	0.481 ppb	0.279 ppb	541.674 ppb	98.880 ppb	0.320 ppb	2.243 ppb	2.233 ppb	1.661 ppb	79.856 %
Concentration per Run 2	0.698 ppb	0.233 ppb	549.558 ppb	96.433 ppb	0.266 ppb	2.117 ppb	2.402 ppb	1.405 ppb	78.036 %
Concentration per Run 3	0.526 ppb	0.228 ppb	585.954 ppb	99.754 ppb	0.298 ppb	2.355 ppb	2.289 ppb	1.619 ppb	80.782 %
Concentration RSD	20.1 %	11.3 %	4.2 %	1.8 %	9.2 %	5.3 %	3.7 %	8.8 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.424 ppb	0.349 ppb	247.211 ppb	0.411 ppb	76.460 %	0.006 ppb	0.108 ppb	79.750 %	0.072 ppb
Concentration per Run 1	0.426 ppb	0.324 ppb	242.054 ppb	0.394 ppb	74.787 %	0.006 ppb	0.094 ppb	77.837 %	0.078 ppb
Concentration per Run 2	0.376 ppb	0.364 ppb	247.990 ppb	0.440 ppb	76.822 %	0.007 ppb	0.109 ppb	78.745 %	0.074 ppb
Concentration per Run 3	0.472 ppb	0.359 ppb	251.590 ppb	0.399 ppb	77.772 %	0.006 ppb	0.121 ppb	82.668 %	0.065 ppb
Concentration RSD	11.3 %	6.2 %	1.9 %	6.1 %	2.0 %	6.8 %	12.7 %	3.2 %	9.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	230.744 ppb	85.757 %	85.448 %	0.046 ppb	0.117 ppb	78.843 %
Concentration per Run 1	227.641 ppb	83.122 %	82.468 %	0.035 ppb	0.113 ppb	76.321 %
Concentration per Run 2	232.731 ppb	85.520 %	84.827 %	0.052 ppb	0.120 ppb	78.142 %
Concentration per Run 3	231.861 ppb	88.629 %	89.049 %	0.052 ppb	0.120 ppb	82.066 %
Concentration RSD	1.2 %	3.2 %	3.9 %	21.0 %	3.6 %	3.7 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 20 User name ALPHALAB\la2-icpmsq Comment <Comment>
 Analysis label: L2343145-06 6020TL Rack 1
 Analysis started at: 8/9/2023 7:23:01 AM Vial 14

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.985 %	86.196 %	0.028 ppb	24,483.404 ppb	11,562.634 ppb	182.873 ppb	730.770 ppb	81,154.986 ppb	84.031 %
Concentration per Run 1	86.632 %	85.714 %	0.024 ppb	24,576.735 ppb	11,394.252 ppb	175.550 ppb	728.674 ppb	80,130.455 ppb	85.166 %
Concentration per Run 2	85.945 %	82.584 %	0.031 ppb	26,069.337 ppb	12,249.099 ppb	201.212 ppb	756.542 ppb	83,284.075 ppb	84.057 %
Concentration per Run 3	85.379 %	90.289 %	0.031 ppb	22,804.141 ppb	11,044.550 ppb	171.856 ppb	707.094 ppb	80,050.427 ppb	82.871 %
Concentration RSD	0.7 %	4.5 %	14.1 %	6.7 %	5.4 %	8.7 %	3.4 %	2.3 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.826 ppb	0.478 ppb	601.514 ppb	169.147 ppb	0.280 ppb	1.766 ppb	1.746 ppb	3.367 ppb	83.576 %
Concentration per Run 1	1.750 ppb	0.472 ppb	586.688 ppb	162.462 ppb	0.254 ppb	1.705 ppb	1.742 ppb	3.235 ppb	83.808 %
Concentration per Run 2	1.764 ppb	0.473 ppb	613.486 ppb	174.865 ppb	0.298 ppb	1.667 ppb	1.752 ppb	3.503 ppb	83.953 %
Concentration per Run 3	1.964 ppb	0.490 ppb	604.369 ppb	170.113 ppb	0.287 ppb	1.926 ppb	1.745 ppb	3.363 ppb	82.967 %
Concentration RSD	6.6 %	2.1 %	2.3 %	3.7 %	8.3 %	7.9 %	0.3 %	4.0 %	0.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.626 ppb	4.434 ppb	193.791 ppb	1.226 ppb	76.550 %	0.003 ppb	0.532 ppb	79.538 %	0.100 ppb
Concentration per Run 1	0.644 ppb	4.316 ppb	189.591 ppb	1.280 ppb	76.870 %	0.003 ppb	0.530 ppb	79.761 %	0.096 ppb
Concentration per Run 2	0.615 ppb	4.442 ppb	192.855 ppb	1.190 ppb	74.715 %	0.002 ppb	0.564 ppb	76.121 %	0.089 ppb
Concentration per Run 3	0.618 ppb	4.544 ppb	198.929 ppb	1.207 ppb	78.064 %	0.003 ppb	0.501 ppb	82.733 %	0.115 ppb
Concentration RSD	2.5 %	2.6 %	2.4 %	3.9 %	2.2 %	17.9 %	5.9 %	4.2 %	13.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	95.913 ppb	84.497 %	83.506 %	0.042 ppb	0.187 ppb	80.735 %
Concentration per Run 1	93.884 ppb	83.567 %	82.580 %	0.032 ppb	0.180 ppb	79.175 %
Concentration per Run 2	96.982 ppb	81.072 %	79.864 %	0.047 ppb	0.189 ppb	78.245 %
Concentration per Run 3	96.873 ppb	88.853 %	88.072 %	0.046 ppb	0.191 ppb	84.785 %
Concentration RSD	1.8 %	4.7 %	5.0 %	20.9 %	3.2 %	4.4 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 21 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343145-07 6020TL Rack 1
 Analysis started at: 8/9/2023 7:27:28 AM Vial 15

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.519 %	78.973 %	0.009 ppb	36,132.806 ppb	13,689.799 ppb	7.969 ppb	803.055 ppb	88,292.060 ppb	83.127 %
Concentration per Run 1	82.701 %	81.621 %	0.005 ppb	34,196.270 ppb	12,836.474 ppb	7.773 ppb	763.220 ppb	83,368.447 ppb	84.906 %
Concentration per Run 2	83.142 %	70.305 %	0.017 ppb	39,845.552 ppb	15,164.570 ppb	8.291 ppb	876.985 ppb	95,495.225 ppb	81.509 %
Concentration per Run 3	81.713 %	84.992 %	0.006 ppb	34,356.595 ppb	13,068.354 ppb	7.841 ppb	768.959 ppb	86,012.508 ppb	82.965 %
Concentration RSD	0.9 %	9.7 %	72.2 %	8.9 %	9.4 %	3.5 %	8.0 %	7.2 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.618 ppb	0.230 ppb	3,332.422 ppb	10.449 ppb	0.552 ppb	1.527 ppb	1.695 ppb	0.898 ppb	80.200 %
Concentration per Run 1	0.521 ppb	0.220 ppb	3,153.131 ppb	8.916 ppb	0.521 ppb	1.619 ppb	1.677 ppb	0.850 ppb	80.580 %
Concentration per Run 2	0.734 ppb	0.237 ppb	3,575.403 ppb	9.963 ppb	0.611 ppb	1.438 ppb	1.746 ppb	0.917 ppb	79.377 %
Concentration per Run 3	0.599 ppb	0.235 ppb	3,268.733 ppb	12.468 ppb	0.522 ppb	1.523 ppb	1.662 ppb	0.928 ppb	80.641 %
Concentration RSD	17.5 %	4.0 %	6.5 %	17.5 %	9.4 %	5.9 %	2.6 %	4.7 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.204 ppb	5.321 ppb	368.400 ppb	1.152 ppb	74.379 %	0.003 ppb	0.354 ppb	77.777 %	0.074 ppb
Concentration per Run 1	0.175 ppb	4.992 ppb	362.721 ppb	1.082 ppb	74.758 %	0.003 ppb	0.324 ppb	77.751 %	0.071 ppb
Concentration per Run 2	0.222 ppb	5.496 ppb	383.021 ppb	1.241 ppb	74.742 %	0.002 ppb	0.356 ppb	80.363 %	0.070 ppb
Concentration per Run 3	0.215 ppb	5.475 ppb	359.459 ppb	1.134 ppb	73.636 %	0.003 ppb	0.383 ppb	75.218 %	0.081 ppb
Concentration RSD	12.4 %	5.4 %	3.5 %	7.0 %	0.9 %	23.7 %	8.3 %	3.3 %	8.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	203.362 ppb	83.285 %	82.908 %	0.030 ppb	0.018 ppb	78.203 %
Concentration per Run 1	200.892 ppb	81.697 %	80.671 %	0.021 ppb	0.018 ppb	76.471 %
Concentration per Run 2	205.287 ppb	84.703 %	84.698 %	0.034 ppb	0.019 ppb	78.592 %
Concentration per Run 3	203.908 ppb	83.454 %	83.356 %	0.035 ppb	0.018 ppb	79.545 %
Concentration RSD	1.1 %	1.8 %	2.5 %	25.8 %	1.6 %	2.0 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 22 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343145-08 6020TL Rack 1
 Analysis started at: 8/9/2023 7:31:56 AM Vial 16

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.154 %	87.239 %	0.015 ppb	70,109.196 ppb	17,357.331 ppb	163.898 ppb	1,162.379 ppb	94,064.393 ppb	83.585 %
Concentration per Run 1	83.818 %	87.640 %	0.014 ppb	67,803.477 ppb	16,864.038 ppb	160.761 ppb	1,157.658 ppb	92,362.600 ppb	82.902 %
Concentration per Run 2	85.472 %	84.029 %	0.020 ppb	72,002.328 ppb	17,665.321 ppb	166.211 ppb	1,142.475 ppb	95,745.941 ppb	84.132 %
Concentration per Run 3	83.173 %	90.048 %	0.010 ppb	70,521.782 ppb	17,542.635 ppb	164.723 ppb	1,187.004 ppb	94,084.638 ppb	83.723 %
Concentration RSD	1.4 %	3.5 %	34.8 %	3.0 %	2.5 %	1.7 %	1.9 %	1.8 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.956 ppb	0.466 ppb	1,662.242 ppb	187.445 ppb	0.589 ppb	1.319 ppb	1.717 ppb	1.770 ppb	78.894 %
Concentration per Run 1	2.005 ppb	0.429 ppb	1,602.809 ppb	185.960 ppb	0.604 ppb	1.123 ppb	1.564 ppb	1.670 ppb	80.873 %
Concentration per Run 2	2.109 ppb	0.479 ppb	1,661.839 ppb	177.793 ppb	0.569 ppb	1.405 ppb	1.774 ppb	1.688 ppb	80.413 %
Concentration per Run 3	1.754 ppb	0.490 ppb	1,722.078 ppb	198.583 ppb	0.595 ppb	1.428 ppb	1.813 ppb	1.951 ppb	75.397 %
Concentration RSD	9.3 %	7.0 %	3.6 %	5.6 %	3.1 %	12.9 %	7.8 %	8.9 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.355 ppb	0.980 ppb	229.332 ppb	1.727 ppb	74.902 %	0.003 ppb	0.117 ppb	78.484 %	0.039 ppb
Concentration per Run 1	0.305 ppb	0.771 ppb	229.225 ppb	1.654 ppb	73.381 %	0.004 ppb	0.113 ppb	77.724 %	0.038 ppb
Concentration per Run 2	0.376 ppb	1.154 ppb	232.710 ppb	1.785 ppb	75.565 %	0.002 ppb	0.119 ppb	80.251 %	0.034 ppb
Concentration per Run 3	0.385 ppb	1.017 ppb	226.061 ppb	1.742 ppb	75.760 %	0.003 ppb	0.120 ppb	77.477 %	0.044 ppb
Concentration RSD	12.3 %	19.8 %	1.5 %	3.9 %	1.8 %	28.7 %	2.9 %	2.0 %	13.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	223.795 ppb	84.228 %	83.204 %	0.029 ppb	0.139 ppb	77.679 %
Concentration per Run 1	220.334 ppb	81.898 %	81.170 %	0.023 ppb	0.134 ppb	74.398 %
Concentration per Run 2	224.911 ppb	85.200 %	84.249 %	0.029 ppb	0.143 ppb	78.328 %
Concentration per Run 3	226.141 ppb	85.586 %	84.194 %	0.034 ppb	0.140 ppb	80.312 %
Concentration RSD	1.4 %	2.4 %	2.1 %	18.3 %	3.1 %	3.9 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 23 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343024-01 6020TL Rack 1
 Analysis started at: 8/9/2023 7:36:24 AM Vial 3

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.246 %	80.176 %	0.139 ppb	67,483.211 ppb	14,339.126 ppb	1,994.117 ppb	13,416.828 ppb	33,800.400 ppb	89.781 %
Concentration per Run 1	76.836 %	85.473 %	0.118 ppb	65,506.047 ppb	13,864.891 ppb	1,989.599 ppb	13,667.547 ppb	34,478.605 ppb	90.259 %
Concentration per Run 2	75.828 %	77.046 %	0.146 ppb	68,088.833 ppb	14,562.947 ppb	1,994.132 ppb	13,062.878 ppb	32,744.057 ppb	89.868 %
Concentration per Run 3	76.075 %	78.009 %	0.153 ppb	68,854.753 ppb	14,589.539 ppb	1,998.621 ppb	13,520.061 ppb	34,178.538 ppb	89.215 %
Concentration RSD	0.7 %	5.8 %	13.3 %	2.6 %	2.9 %	0.2 %	2.3 %	2.7 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	21.823 ppb	24.509 ppb	1,346.334 ppb	57,625.539 ppb	18.653 ppb	14.080 ppb	33.716 ppb	29.864 ppb	87.533 %
Concentration per Run 1	21.388 ppb	23.856 ppb	1,344.320 ppb	57,976.929 ppb	18.124 ppb	13.456 ppb	32.282 ppb	29.247 ppb	89.619 %
Concentration per Run 2	21.819 ppb	24.530 ppb	1,340.575 ppb	58,504.860 ppb	18.876 ppb	14.517 ppb	34.472 ppb	29.710 ppb	87.824 %
Concentration per Run 3	22.264 ppb	25.140 ppb	1,354.107 ppb	56,394.828 ppb	18.958 ppb	14.266 ppb	34.393 ppb	30.633 ppb	85.156 %
Concentration RSD	2.0 %	2.6 %	0.5 %	1.9 %	2.5 %	3.9 %	3.7 %	2.4 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	9.206 ppb	4.783 ppb	170.684 ppb	1.502 ppb	72.193 %	0.047 ppb	9.213 ppb	77.160 %	0.305 ppb
Concentration per Run 1	9.166 ppb	4.952 ppb	175.336 ppb	1.471 ppb	73.180 %	0.046 ppb	9.020 ppb	79.560 %	0.288 ppb
Concentration per Run 2	9.136 ppb	4.831 ppb	171.452 ppb	1.586 ppb	71.806 %	0.044 ppb	9.240 ppb	75.956 %	0.318 ppb
Concentration per Run 3	9.315 ppb	4.567 ppb	165.265 ppb	1.449 ppb	71.592 %	0.051 ppb	9.378 ppb	75.963 %	0.309 ppb
Concentration RSD	1.0 %	4.1 %	3.0 %	4.9 %	1.2 %	8.0 %	2.0 %	2.7 %	5.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	68.260 ppb	83.571 %	83.259 %	0.411 ppb	16.342 ppb	75.444 %
Concentration per Run 1	68.120 ppb	83.203 %	84.158 %	0.386 ppb	16.078 ppb	74.180 %
Concentration per Run 2	68.597 ppb	83.462 %	82.655 %	0.421 ppb	16.331 ppb	75.451 %
Concentration per Run 3	68.063 ppb	84.048 %	82.964 %	0.428 ppb	16.618 ppb	76.700 %
Concentration RSD	0.4 %	0.5 %	1.0 %	5.5 %	1.7 %	1.7 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 24 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343024-02 6020TL Rack 1
 Analysis started at: 8/9/2023 7:40:52 AM Vial 4

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.890 %	82.905 %	0.051 ppb	8,842.229 ppb	6,875.203 ppb	485.648 ppb	5,737.345 ppb	11,108.022 ppb	80.720 %
Concentration per Run 1	80.245 %	87.640 %	0.044 ppb	8,630.860 ppb	6,709.498 ppb	495.395 ppb	5,939.140 ppb	11,308.414 ppb	81.739 %
Concentration per Run 2	80.739 %	85.955 %	0.048 ppb	8,757.491 ppb	6,843.580 ppb	473.094 ppb	5,588.206 ppb	10,797.166 ppb	80.020 %
Concentration per Run 3	78.686 %	75.120 %	0.061 ppb	9,138.335 ppb	7,072.531 ppb	488.455 ppb	5,684.691 ppb	11,218.484 ppb	80.402 %
Concentration RSD	1.3 %	8.2 %	17.0 %	3.0 %	2.7 %	2.3 %	3.2 %	2.5 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	4.796 ppb	1.749 ppb	174.375 ppb	5,983.509 ppb	1.687 ppb	3.009 ppb	4.437 ppb	40.991 ppb	81.964 %
Concentration per Run 1	4.804 ppb	1.668 ppb	170.883 ppb	5,644.707 ppb	1.597 ppb	2.777 ppb	4.039 ppb	39.136 ppb	87.216 %
Concentration per Run 2	4.593 ppb	1.814 ppb	178.976 ppb	6,132.226 ppb	1.813 ppb	3.156 ppb	4.629 ppb	42.411 ppb	80.223 %
Concentration per Run 3	4.991 ppb	1.767 ppb	173.264 ppb	6,173.595 ppb	1.653 ppb	3.094 ppb	4.643 ppb	41.425 ppb	78.454 %
Concentration RSD	4.2 %	4.3 %	2.4 %	4.9 %	6.6 %	6.8 %	7.8 %	4.1 %	5.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.033 ppb	1.618 ppb	74.149 ppb	0.065 ppb	77.514 %	0.004 ppb	0.052 ppb	80.712 %	0.747 ppb
Concentration per Run 1	0.952 ppb	1.590 ppb	74.298 ppb	0.053 ppb	78.570 %	0.005 ppb	0.057 ppb	84.012 %	0.710 ppb
Concentration per Run 2	1.067 ppb	1.618 ppb	74.579 ppb	0.080 ppb	75.448 %	0.003 ppb	0.045 ppb	79.320 %	0.745 ppb
Concentration per Run 3	1.081 ppb	1.648 ppb	73.569 ppb	0.061 ppb	78.525 %	0.005 ppb	0.053 ppb	78.804 %	0.788 ppb
Concentration RSD	6.9 %	1.8 %	0.7 %	21.2 %	2.3 %	29.6 %	12.2 %	3.6 %	5.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	64.494 ppb	85.540 %	85.600 %	0.035 ppb	1.907 ppb	83.276 %
Concentration per Run 1	63.573 ppb	85.121 %	86.223 %	0.028 ppb	1.856 ppb	82.649 %
Concentration per Run 2	64.798 ppb	84.954 %	84.755 %	0.041 ppb	1.948 ppb	82.659 %
Concentration per Run 3	65.109 ppb	86.545 %	85.824 %	0.037 ppb	1.918 ppb	84.520 %
Concentration RSD	1.3 %	1.0 %	0.9 %	18.6 %	2.5 %	1.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 25 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343024-03 6020TL Rack 1
 Analysis started at: 8/9/2023 7:45:21 AM Vial 5

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.739 %	88.202 %	0.418 ppb	53,878.166 ppb	308.846 ppb	5,176.117 ppb	66,470.959 ppb	5,747.041 ppb	97.199 %
Concentration per Run 1	90.835 %	92.697 %	0.405 ppb	50,534.945 ppb	306.599 ppb	5,067.093 ppb	65,645.351 ppb	5,606.523 ppb	97.755 %
Concentration per Run 2	91.348 %	79.454 %	0.429 ppb	58,712.521 ppb	322.622 ppb	5,406.808 ppb	68,558.583 ppb	6,071.830 ppb	97.374 %
Concentration per Run 3	90.034 %	92.456 %	0.421 ppb	52,387.031 ppb	297.318 ppb	5,054.449 ppb	65,208.943 ppb	5,562.770 ppb	96.467 %
Concentration RSD	0.7 %	8.6 %	2.9 %	8.0 %	4.1 %	3.9 %	2.7 %	4.9 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	24.523 ppb	10.918 ppb	53.721 ppb	3,368.740 ppb	1.879 ppb	7.168 ppb	7.157 ppb	12.051 ppb	89.881 %
Concentration per Run 1	22.975 ppb	10.240 ppb	49.940 ppb	3,203.761 ppb	1.790 ppb	6.968 ppb	6.876 ppb	11.714 ppb	89.954 %
Concentration per Run 2	25.870 ppb	11.339 ppb	55.623 ppb	3,493.650 ppb	1.965 ppb	7.473 ppb	7.583 ppb	12.200 ppb	88.986 %
Concentration per Run 3	24.726 ppb	11.173 ppb	55.602 ppb	3,408.809 ppb	1.883 ppb	7.063 ppb	7.013 ppb	12.238 ppb	90.704 %
Concentration RSD	5.9 %	5.4 %	6.1 %	4.4 %	4.6 %	3.7 %	5.2 %	2.4 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.022 ppb	1.830 ppb	65.797 ppb	7.158 ppb	76.261 %	0.009 ppb	0.439 ppb	79.593 %	0.943 ppb
Concentration per Run 1	9.450 ppb	1.670 ppb	66.897 ppb	7.150 ppb	75.207 %	0.007 ppb	0.396 ppb	81.633 %	0.937 ppb
Concentration per Run 2	10.314 ppb	1.734 ppb	65.434 ppb	7.102 ppb	77.277 %	0.010 ppb	0.432 ppb	80.027 %	0.943 ppb
Concentration per Run 3	10.300 ppb	2.085 ppb	65.059 ppb	7.220 ppb	76.299 %	0.011 ppb	0.490 ppb	77.118 %	0.949 ppb
Concentration RSD	4.9 %	12.2 %	1.5 %	0.8 %	1.4 %	23.6 %	10.8 %	2.9 %	0.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	27.297 ppb	87.694 %	87.063 %	0.048 ppb	6.558 ppb	81.504 %
Concentration per Run 1	27.174 ppb	86.234 %	86.726 %	0.043 ppb	6.431 ppb	79.141 %
Concentration per Run 2	27.155 ppb	88.761 %	87.952 %	0.049 ppb	6.575 ppb	82.598 %
Concentration per Run 3	27.563 ppb	88.088 %	86.512 %	0.052 ppb	6.667 ppb	82.773 %
Concentration RSD	0.8 %	1.5 %	0.9 %	9.6 %	1.8 %	2.5 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 26 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343024-04 6020TL Rack 1
 Analysis started at: 8/9/2023 7:49:50 AM Vial 6

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.026 %	92.697 %	0.030 ppb	34,189.486 ppb	7,392.662 ppb	260.656 ppb	13,422.542 ppb	42,859.969 ppb	95.875 %
Concentration per Run 1	93.287 %	88.603 %	0.034 ppb	34,877.802 ppb	7,346.850 ppb	261.254 ppb	14,173.440 ppb	44,293.039 ppb	97.166 %
Concentration per Run 2	92.962 %	93.660 %	0.028 ppb	34,678.183 ppb	7,614.031 ppb	261.057 ppb	13,137.260 ppb	42,191.550 ppb	93.909 %
Concentration per Run 3	92.829 %	95.827 %	0.029 ppb	33,012.472 ppb	7,217.105 ppb	259.659 ppb	12,956.926 ppb	42,095.319 ppb	96.551 %
Concentration RSD	0.3 %	4.0 %	10.2 %	3.0 %	2.7 %	0.3 %	4.9 %	2.9 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.833 ppb	3.064 ppb	1,237.699 ppb	28,073.393 ppb	2.189 ppb	2.351 ppb	3.955 ppb	97.297 ppb	91.926 %
Concentration per Run 1	2.757 ppb	3.151 ppb	1,229.412 ppb	27,616.334 ppb	2.155 ppb	2.194 ppb	3.865 ppb	96.262 ppb	91.587 %
Concentration per Run 2	2.960 ppb	3.001 ppb	1,273.974 ppb	29,014.980 ppb	2.330 ppb	2.604 ppb	4.109 ppb	98.854 ppb	89.877 %
Concentration per Run 3	2.781 ppb	3.039 ppb	1,209.713 ppb	27,588.863 ppb	2.082 ppb	2.256 ppb	3.890 ppb	96.774 ppb	94.315 %
Concentration RSD	3.9 %	2.5 %	2.7 %	2.9 %	5.8 %	9.4 %	3.4 %	1.4 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.432 ppb	0.582 ppb	286.301 ppb	0.426 ppb	83.999 %	0.003 ppb	1.086 ppb	88.246 %	0.454 ppb
Concentration per Run 1	4.247 ppb	0.573 ppb	291.798 ppb	0.446 ppb	82.273 %	0.002 ppb	1.075 ppb	88.659 %	0.441 ppb
Concentration per Run 2	4.542 ppb	0.625 ppb	285.897 ppb	0.481 ppb	83.290 %	0.003 ppb	1.107 ppb	86.488 %	0.460 ppb
Concentration per Run 3	4.507 ppb	0.548 ppb	281.209 ppb	0.351 ppb	86.434 %	0.003 ppb	1.077 ppb	89.590 %	0.461 ppb
Concentration RSD	3.6 %	6.8 %	1.9 %	15.9 %	2.6 %	21.9 %	1.6 %	1.8 %	2.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	101.686 ppb	93.437 %	93.681 %	0.028 ppb	1.737 ppb	86.505 %
Concentration per Run 1	101.020 ppb	91.242 %	92.373 %	0.020 ppb	1.732 ppb	84.325 %
Concentration per Run 2	100.689 ppb	92.688 %	92.093 %	0.030 ppb	1.739 ppb	86.296 %
Concentration per Run 3	103.349 ppb	96.380 %	96.577 %	0.034 ppb	1.739 ppb	88.893 %
Concentration RSD	1.4 %	2.8 %	2.7 %	26.6 %	0.2 %	2.6 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 27 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/9/2023 7:54:20 AM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.380 %	101.124 %	58.727 ppb	6,128.243 ppb	6,236.128 ppb	62.313 ppb	6,195.627 ppb	6,075.825 ppb	93.216 %
Concentration per Run 1	94.301 %	98.475 %	58.586 ppb	6,274.637 ppb	6,309.580 ppb	65.431 ppb	6,396.844 ppb	6,311.762 ppb	93.758 %
Concentration per Run 2	92.928 %	101.605 %	59.342 ppb	6,130.717 ppb	6,331.343 ppb	60.619 ppb	6,086.945 ppb	5,958.379 ppb	92.744 %
Concentration per Run 3	92.911 %	103.291 %	58.253 ppb	5,979.376 ppb	6,067.460 ppb	60.888 ppb	6,103.091 ppb	5,957.335 ppb	93.145 %
Recovery Percentage 1			97.878 %	102.137 %	103.935 %	103.854 %	103.260 %	101.264 %	
Concentration RSD	0.9 %	2.4 %	1.0 %	2.4 %	2.3 %	4.3 %	2.8 %	3.4 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.966 ppb	58.997 ppb	59.507 ppb	5,987.242 ppb	59.483 ppb	59.168 ppb	59.005 ppb	60.562 ppb	93.636 %
Concentration per Run 1	57.768 ppb	58.955 ppb	60.944 ppb	5,884.244 ppb	58.309 ppb	57.846 ppb	57.039 ppb	59.472 ppb	95.843 %
Concentration per Run 2	58.120 ppb	58.042 ppb	59.574 ppb	6,020.986 ppb	60.300 ppb	60.234 ppb	59.657 ppb	61.487 ppb	93.260 %
Concentration per Run 3	61.010 ppb	59.993 ppb	58.003 ppb	6,056.496 ppb	59.840 ppb	59.425 ppb	60.318 ppb	60.727 ppb	91.806 %
Recovery Percentage 1	98.277 %	98.328 %	99.178 %	99.787 %	99.138 %	98.614 %	98.341 %	100.936 %	
Concentration RSD	3.0 %	1.7 %	2.5 %	1.5 %	1.8 %	2.1 %	2.9 %	1.7 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.392 ppb	59.935 ppb	59.619 ppb	58.718 ppb	89.238 %	60.337 ppb	60.376 ppb	90.120 %	59.602 ppb
Concentration per Run 1	58.308 ppb	60.892 ppb	59.840 ppb	56.939 ppb	88.904 %	58.478 ppb	58.430 ppb	91.962 %	58.299 ppb
Concentration per Run 2	59.012 ppb	59.140 ppb	59.692 ppb	60.218 ppb	89.114 %	61.153 ppb	61.320 ppb	88.768 %	60.940 ppb
Concentration per Run 3	60.857 ppb	59.774 ppb	59.325 ppb	58.998 ppb	89.695 %	61.381 ppb	61.379 ppb	89.632 %	59.566 ppb
Recovery Percentage 1	98.987 %	99.892 %	99.365 %	97.864 %		100.562 %	100.627 %		99.336 %
Concentration RSD	2.2 %	1.5 %	0.4 %	2.8 %	0.5 %	2.7 %	2.8 %	1.8 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	60.235 ppb	94.801 %	94.625 %	60.115 ppb	61.196 ppb	92.564 %
Concentration per Run 1	60.188 ppb	94.253 %	94.862 %	57.025 ppb	59.790 ppb	91.242 %
Concentration per Run 2	60.541 ppb	94.952 %	94.569 %	61.000 ppb	62.034 ppb	92.486 %
Concentration per Run 3	59.976 ppb	95.197 %	94.442 %	62.321 ppb	61.764 ppb	93.963 %
Recovery Percentage 1	100.392 %			100.192 %	101.994 %	
Concentration RSD	0.5 %	0.5 %	0.2 %	4.6 %	2.0 %	1.5 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 28 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/9/2023 7:58:52 AM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.292 %	102.167 %	0.008 ppb	3.504 ppb	0.001 ppb	0.564 ppb	2.397 ppb	-0.799 ppb	95.935 %
Concentration per Run 1	100.019 %	101.605 %	0.004 ppb	3.710 ppb	-0.280 ppb	0.331 ppb	3.692 ppb	-0.504 ppb	96.180 %
Concentration per Run 2	97.822 %	101.605 %	0.012 ppb	3.971 ppb	0.359 ppb	0.527 ppb	-0.746 ppb	-0.472 ppb	95.942 %
Concentration per Run 3	100.034 %	103.291 %	0.006 ppb	2.831 ppb	-0.075 ppb	0.833 ppb	4.244 ppb	-1.420 ppb	95.683 %
Recovery Percentage 1			1.533 %	3.504 %	0.002 %	5.638 %	2.397 %	-0.799 %	
Concentration RSD	1.3 %	1.0 %	55.6 %	17.1 %	22,061.8 %	44.9 %	114.1 %	67.4 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.001 ppb	0.018 ppb	0.100 ppb	13.541 ppb	0.002 ppb	0.084 ppb	0.057 ppb	0.477 ppb	93.270 %
Concentration per Run 1	0.017 ppb	0.019 ppb	0.094 ppb	13.216 ppb	0.002 ppb	0.094 ppb	0.040 ppb	0.462 ppb	93.593 %
Concentration per Run 2	-0.038 ppb	0.021 ppb	0.137 ppb	11.545 ppb	0.002 ppb	0.089 ppb	0.068 ppb	0.477 ppb	93.086 %
Concentration per Run 3	0.017 ppb	0.013 ppb	0.069 ppb	15.861 ppb	0.002 ppb	0.069 ppb	0.063 ppb	0.493 ppb	93.129 %
Recovery Percentage 1	-0.024 %	1.764 %	10.021 %	27.082 %	0.356 %	4.190 %	5.687 %	9.546 %	
Concentration RSD	2,667.3 %	21.5 %	34.3 %	16.1 %	0.5 %	15.7 %	26.4 %	3.2 %	0.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.027 ppb	0.056 ppb	0.002 ppb	0.114 ppb	93.471 %	0.004 ppb	0.001 ppb	92.454 %	0.051 ppb
Concentration per Run 1	0.027 ppb	0.080 ppb	0.003 ppb	0.110 ppb	92.776 %	0.005 ppb	0.001 ppb	91.809 %	0.044 ppb
Concentration per Run 2	0.040 ppb	0.101 ppb	0.001 ppb	0.163 ppb	93.065 %	0.003 ppb	0.001 ppb	91.623 %	0.056 ppb
Concentration per Run 3	0.015 ppb	-0.013 ppb	0.003 ppb	0.070 ppb	94.572 %	0.004 ppb	0.001 ppb	93.929 %	0.054 ppb
Recovery Percentage 1	5.439 %	1.121 %	0.022 %	5.723 %		0.986 %	0.577 %		1.281 %
Concentration RSD	46.2 %	108.1 %	60.3 %	40.8 %	1.0 %	20.3 %	42.3 %	1.4 %	13.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.022 ppb	95.868 %	94.698 %	0.293 ppb	0.009 ppb	97.116 %
Concentration per Run 1	0.012 ppb	93.731 %	92.080 %	0.298 ppb	0.009 ppb	93.610 %
Concentration per Run 2	0.032 ppb	95.752 %	94.658 %	0.324 ppb	0.009 ppb	97.741 %
Concentration per Run 3	0.021 ppb	98.120 %	97.358 %	0.256 ppb	0.010 ppb	99.996 %
Recovery Percentage 1	4.356 %			29.257 %	0.947 %	
Concentration RSD	46.7 %	2.3 %	2.8 %	11.8 %	10.2 %	3.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 29 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809013-1 6020SL Rack: 1
 Analysis started at: 8/9/2023 8:05:29 AM Vial: 17

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.717 %	107.223 %	0.005 ppb	32.444 ppb	2.125 ppb	1.530 ppb	-1.243 ppb	17.549 ppb	98.565 %
Concentration per Run 1	100.259 %	106.180 %	0.010 ppb	32.685 ppb	1.918 ppb	1.809 ppb	-1.530 ppb	23.142 ppb	98.210 %
Concentration per Run 2	102.524 %	108.106 %	0.003 ppb	31.468 ppb	2.325 ppb	1.450 ppb	-1.708 ppb	17.803 ppb	99.064 %
Concentration per Run 3	99.370 %	107.384 %	0.003 ppb	33.178 ppb	2.131 ppb	1.332 ppb	-0.490 ppb	11.700 ppb	98.422 %
Concentration RSD	1.6 %	0.9 %	75.1 %	2.7 %	9.6 %	16.3 %	53.0 %	32.6 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.019 ppb	0.108 ppb	0.108 ppb	8.520 ppb	0.005 ppb	0.045 ppb	0.130 ppb	0.690 ppb	97.643 %
Concentration per Run 1	0.001 ppb	0.126 ppb	0.086 ppb	8.201 ppb	0.002 ppb	0.015 ppb	0.116 ppb	0.659 ppb	101.205 %
Concentration per Run 2	-0.039 ppb	0.085 ppb	0.147 ppb	9.305 ppb	0.012 ppb	0.076 ppb	0.126 ppb	0.740 ppb	95.448 %
Concentration per Run 3	-0.021 ppb	0.112 ppb	0.090 ppb	8.054 ppb	0.003 ppb	0.044 ppb	0.148 ppb	0.671 ppb	96.275 %
Concentration RSD	102.0 %	19.2 %	31.8 %	8.0 %	97.8 %	67.3 %	12.5 %	6.3 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.000 ppb	0.017 ppb	0.053 ppb	0.031 ppb	96.431 %	0.002 ppb	0.001 ppb	95.326 %	0.009 ppb
Concentration per Run 1	0.001 ppb	0.024 ppb	0.053 ppb	0.017 ppb	96.912 %	0.003 ppb	0.001 ppb	98.459 %	0.008 ppb
Concentration per Run 2	0.005 ppb	0.012 ppb	0.051 ppb	0.047 ppb	94.994 %	0.002 ppb	0.001 ppb	92.274 %	0.009 ppb
Concentration per Run 3	-0.007 ppb	0.015 ppb	0.054 ppb	0.028 ppb	97.388 %	0.002 ppb	0.001 ppb	95.245 %	0.009 ppb
Concentration RSD	1,409.4 %	36.2 %	3.1 %	50.7 %	1.3 %	16.6 %	3.7 %	3.2 %	4.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.099 ppb	97.979 %	96.971 %	0.072 ppb	0.011 ppb	98.775 %
Concentration per Run 1	0.090 ppb	96.602 %	96.886 %	0.075 ppb	0.011 ppb	96.764 %
Concentration per Run 2	0.086 ppb	97.301 %	95.738 %	0.074 ppb	0.012 ppb	97.895 %
Concentration per Run 3	0.123 ppb	100.033 %	98.289 %	0.068 ppb	0.011 ppb	101.665 %
Concentration RSD	20.3 %	1.9 %	1.3 %	5.0 %	3.3 %	2.6 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 30 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809013-2D10 6020SL Rack: 1
 Analysis started at: 8/9/2023 8:09:56 AM Vial: 18

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.253 %	101.525 %	5.044 ppb	1,080.909 ppb	1,083.734 ppb	220.346 ppb	1,040.124 ppb	1,010.072 ppb	93.998 %
Concentration per Run 1	97.095 %	102.809 %	5.161 ppb	1,077.162 ppb	1,060.389 ppb	222.646 ppb	1,096.132 ppb	1,040.324 ppb	94.014 %
Concentration per Run 2	98.122 %	104.735 %	5.028 ppb	1,041.448 ppb	1,068.289 ppb	207.119 ppb	1,008.881 ppb	999.677 ppb	93.606 %
Concentration per Run 3	96.542 %	97.030 %	4.944 ppb	1,124.117 ppb	1,122.522 ppb	231.273 ppb	1,015.359 ppb	990.215 ppb	94.376 %
Concentration RSD	0.8 %	3.9 %	2.2 %	3.8 %	3.1 %	5.6 %	4.7 %	2.6 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.009 ppb	19.894 ppb	50.481 ppb	101.924 ppb	50.271 ppb	50.183 ppb	25.387 ppb	50.948 ppb	97.273 %
Concentration per Run 1	47.197 ppb	19.234 ppb	50.325 ppb	97.051 ppb	48.996 ppb	48.864 ppb	24.848 ppb	50.010 ppb	99.068 %
Concentration per Run 2	48.709 ppb	20.176 ppb	49.955 ppb	99.704 ppb	49.890 ppb	49.442 ppb	25.291 ppb	50.345 ppb	96.489 %
Concentration per Run 3	48.121 ppb	20.273 ppb	51.164 ppb	109.017 ppb	51.928 ppb	52.244 ppb	26.021 ppb	52.489 ppb	96.262 %
Concentration RSD	1.6 %	2.9 %	1.2 %	6.2 %	3.0 %	3.6 %	2.3 %	2.6 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.335 ppb	12.429 ppb	99.016 ppb	96.635 ppb	94.128 %	5.154 ppb	5.428 ppb	94.233 %	46.038 ppb
Concentration per Run 1	12.067 ppb	11.473 ppb	99.309 ppb	94.730 ppb	95.472 %	4.998 ppb	5.239 ppb	97.633 %	43.821 ppb
Concentration per Run 2	12.374 ppb	12.763 ppb	99.053 ppb	95.514 ppb	93.988 %	5.202 ppb	5.496 ppb	93.443 %	46.333 ppb
Concentration per Run 3	12.565 ppb	13.051 ppb	98.687 ppb	99.660 ppb	92.923 %	5.264 ppb	5.549 ppb	91.623 %	47.960 ppb
Concentration RSD	2.0 %	6.8 %	0.3 %	2.7 %	1.4 %	2.7 %	3.1 %	3.3 %	4.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	202.597 ppb	98.109 %	97.495 %	12.709 ppb	56.706 ppb	97.826 %
Concentration per Run 1	200.259 ppb	97.209 %	97.051 %	12.546 ppb	55.606 ppb	96.306 %
Concentration per Run 2	204.479 ppb	98.443 %	97.454 %	12.674 ppb	57.071 ppb	97.517 %
Concentration per Run 3	203.054 ppb	98.676 %	97.979 %	12.907 ppb	57.441 ppb	99.655 %
Concentration RSD	1.1 %	0.8 %	0.5 %	1.4 %	1.7 %	1.7 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 31 User name: ALPHALABla2-icpmsq2 Comment: <Comment>
 Analysis label: zL2343081-01 6020TL Rack: 1
 Analysis started at: 8/9/2023 8:14:25 AM Vial: 7

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	64.446 %	100.883 %	7.770 ppb	4,607,586.798 ppb	93,228.721 ppb	16,721.642 ppb	11,266.687 ppb	175,685.449 ppb	85.504 %
Concentration per Run 1	66.795 %	97.753 %	7.793 ppb	4,482,040.959 ppb	90,133.739 ppb	16,057.214 ppb	10,778.778 ppb	167,941.283 ppb	88.289 %
Concentration per Run 2	64.466 %	106.180 %	7.481 ppb	4,617,939.890 ppb	93,948.293 ppb	17,037.527 ppb	11,576.778 ppb	179,416.018 ppb	85.306 %
Concentration per Run 3	62.076 %	98.716 %	8.036 ppb	4,722,779.546 ppb	95,604.132 ppb	17,070.185 ppb	11,444.504 ppb	179,699.045 ppb	82.919 %
Concentration RSD	3.7 %	4.6 %	3.6 %	2.6 %	3.0 %	3.4 %	3.8 %	3.8 %	3.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	40.621 ppb	15.584 ppb	104,231.218 ppb	251,844.738 ppb	217.285 ppb	269.405 ppb	76.283 ppb	357.770 ppb	75.523 %
Concentration per Run 1	39.359 ppb	14.894 ppb	100,730.919 ppb	246,124.624 ppb	213.871 ppb	262.407 ppb	75.385 ppb	350.535 ppb	76.155 %
Concentration per Run 2	40.271 ppb	15.633 ppb	105,095.724 ppb	250,696.774 ppb	213.782 ppb	263.948 ppb	74.496 ppb	354.786 ppb	77.347 %
Concentration per Run 3	42.232 ppb	16.226 ppb	106,867.012 ppb	258,712.816 ppb	224.202 ppb	281.861 ppb	78.968 ppb	367.988 ppb	73.067 %
Concentration RSD	3.6 %	4.3 %	3.0 %	2.5 %	2.8 %	4.0 %	3.1 %	2.5 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	21.881 ppb	22.969 ppb	1,155.939 ppb	4.820 ppb	57.190 %	0.021 ppb	6.403 ppb	65.644 %	3.446 ppb
Concentration per Run 1	20.590 ppb	22.605 ppb	1,124.843 ppb	4.946 ppb	57.569 %	0.021 ppb	6.222 ppb	65.592 %	3.441 ppb
Concentration per Run 2	22.538 ppb	22.879 ppb	1,193.142 ppb	4.752 ppb	57.703 %	0.023 ppb	6.623 ppb	67.270 %	3.423 ppb
Concentration per Run 3	22.515 ppb	23.423 ppb	1,149.831 ppb	4.761 ppb	56.299 %	0.019 ppb	6.363 ppb	64.069 %	3.475 ppb
Concentration RSD	5.1 %	1.8 %	3.0 %	2.3 %	1.4 %	9.1 %	3.2 %	2.4 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	92.682 ppb	78.161 %	73.366 %	0.103 ppb	3.304 ppb	55.568 %
Concentration per Run 1	92.206 ppb	79.310 %	73.872 %	0.086 ppb	3.184 ppb	56.222 %
Concentration per Run 2	92.830 ppb	78.288 %	74.567 %	0.110 ppb	3.361 ppb	56.069 %
Concentration per Run 3	93.010 ppb	76.886 %	71.658 %	0.113 ppb	3.367 ppb	54.413 %
Concentration RSD	0.5 %	1.6 %	2.1 %	14.3 %	3.2 %	1.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 32 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: zL2343081-02 6020TL Rack: 1
 Analysis started at: 8/9/2023 8:18:55 AM Vial: 8

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	69.379 %	86.356 %	0.025 ppb	1,112,621.738 ppb	45,554.352 ppb	164.115 ppb	5,168.793 ppb	147,417.697 ppb	73.187 %
Concentration per Run 1	72.037 %	80.658 %	0.028 ppb	1,132,786.640 ppb	45,651.945 ppb	165.563 ppb	5,113.742 ppb	143,944.525 ppb	75.916 %
Concentration per Run 2	68.675 %	86.677 %	0.026 ppb	1,170,162.349 ppb	48,709.189 ppb	173.318 ppb	5,446.973 ppb	158,610.866 ppb	71.398 %
Concentration per Run 3	67.424 %	91.733 %	0.020 ppb	1,034,916.224 ppb	42,301.921 ppb	153.463 ppb	4,945.666 ppb	139,697.700 ppb	72.246 %
Concentration RSD	3.4 %	6.4 %	16.6 %	6.3 %	7.0 %	6.1 %	4.9 %	6.7 %	3.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.842 ppb	2.638 ppb	25,722.704 ppb	25,504.815 ppb	3.677 ppb	15.713 ppb	0.653 ppb	3.871 ppb	69.089 %
Concentration per Run 1	0.900 ppb	2.455 ppb	25,111.261 ppb	24,897.478 ppb	3.824 ppb	15.802 ppb	0.675 ppb	3.893 ppb	66.207 %
Concentration per Run 2	0.813 ppb	2.893 ppb	27,727.776 ppb	27,501.858 ppb	3.695 ppb	16.447 ppb	0.637 ppb	4.096 ppb	68.670 %
Concentration per Run 3	0.812 ppb	2.565 ppb	24,329.075 ppb	24,115.107 ppb	3.512 ppb	14.891 ppb	0.647 ppb	3.623 ppb	72.389 %
Concentration RSD	6.0 %	8.6 %	6.9 %	7.0 %	4.3 %	5.0 %	3.1 %	6.1 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.081 ppb	2.176 ppb	852.824 ppb	1.043 ppb	58.930 %	0.006 ppb	0.196 ppb	64.359 %	0.205 ppb
Concentration per Run 1	4.209 ppb	1.975 ppb	820.679 ppb	0.981 ppb	57.044 %	0.009 ppb	0.178 ppb	60.468 %	0.187 ppb
Concentration per Run 2	4.242 ppb	2.343 ppb	922.401 ppb	1.162 ppb	59.336 %	0.006 ppb	0.210 ppb	66.886 %	0.220 ppb
Concentration per Run 3	3.792 ppb	2.210 ppb	815.392 ppb	0.986 ppb	60.412 %	0.004 ppb	0.201 ppb	65.724 %	0.208 ppb
Concentration RSD	6.2 %	8.6 %	7.1 %	9.9 %	2.9 %	43.9 %	8.4 %	5.3 %	8.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	416.103 ppb	65.059 %	64.492 %	0.051 ppb	0.462 ppb	51.170 %
Concentration per Run 1	402.716 ppb	60.361 %	58.529 %	0.039 ppb	0.453 ppb	46.468 %
Concentration per Run 2	428.341 ppb	66.783 %	67.332 %	0.056 ppb	0.465 ppb	53.159 %
Concentration per Run 3	417.253 ppb	68.033 %	67.614 %	0.059 ppb	0.469 ppb	53.881 %
Concentration RSD	3.1 %	6.3 %	8.0 %	20.9 %	1.7 %	8.0 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 33 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: zL2343081-03 6020TL Rack: 1
 Analysis started at: 8/9/2023 8:23:25 AM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.019 %	81.300 %	0.013 ppb	522,060.894 ppb	14,659.897 ppb	25.919 ppb	8,586.075 ppb	139,482.172 ppb	76.950 %
Concentration per Run 1	75.195 %	73.916 %	0.006 ppb	534,266.304 ppb	14,909.677 ppb	25.745 ppb	8,496.001 ppb	138,097.615 ppb	77.261 %
Concentration per Run 2	74.145 %	82.825 %	0.016 ppb	522,832.344 ppb	14,712.432 ppb	28.128 ppb	9,076.910 ppb	146,310.310 ppb	78.238 %
Concentration per Run 3	72.716 %	87.159 %	0.017 ppb	509,084.035 ppb	14,357.581 ppb	23.884 ppb	8,185.312 ppb	134,038.590 ppb	75.350 %
Concentration RSD	1.7 %	8.3 %	49.0 %	2.4 %	1.9 %	8.2 %	5.3 %	4.5 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.479 ppb	0.804 ppb	7,128.968 ppb	21,740.560 ppb	0.205 ppb	1.281 ppb	0.485 ppb	0.765 ppb	70.411 %
Concentration per Run 1	0.440 ppb	0.815 ppb	7,243.707 ppb	22,326.387 ppb	0.241 ppb	1.253 ppb	0.495 ppb	0.809 ppb	64.737 %
Concentration per Run 2	0.524 ppb	0.769 ppb	7,081.998 ppb	21,033.190 ppb	0.167 ppb	1.290 ppb	0.465 ppb	0.712 ppb	76.276 %
Concentration per Run 3	0.473 ppb	0.828 ppb	7,061.200 ppb	21,862.103 ppb	0.209 ppb	1.300 ppb	0.496 ppb	0.775 ppb	70.219 %
Concentration RSD	8.8 %	3.9 %	1.4 %	3.0 %	18.0 %	1.9 %	3.6 %	6.4 %	8.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.844 ppb	0.388 ppb	661.669 ppb	0.258 ppb	62.476 %	0.005 ppb	0.046 ppb	67.506 %	0.094 ppb
Concentration per Run 1	2.005 ppb	0.323 ppb	644.583 ppb	0.209 ppb	58.966 %	0.005 ppb	0.042 ppb	63.395 %	0.080 ppb
Concentration per Run 2	1.859 ppb	0.254 ppb	681.011 ppb	0.291 ppb	64.346 %	0.005 ppb	0.038 ppb	71.138 %	0.114 ppb
Concentration per Run 3	1.668 ppb	0.586 ppb	659.412 ppb	0.275 ppb	64.118 %	0.006 ppb	0.057 ppb	67.984 %	0.089 ppb
Concentration RSD	9.2 %	45.3 %	2.8 %	16.8 %	4.9 %	7.9 %	22.0 %	5.8 %	18.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	113.452 ppb	70.678 %	70.280 %	0.030 ppb	0.468 ppb	57.559 %
Concentration per Run 1	109.575 ppb	65.456 %	63.983 %	0.022 ppb	0.453 ppb	52.582 %
Concentration per Run 2	117.835 ppb	72.889 %	73.493 %	0.033 ppb	0.465 ppb	58.779 %
Concentration per Run 3	112.944 ppb	73.690 %	73.364 %	0.036 ppb	0.487 ppb	61.317 %
Concentration RSD	3.7 %	6.4 %	7.8 %	24.9 %	3.7 %	7.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 34 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: xL2343081-04 6020TL Rack: 1
 Analysis started at: 8/9/2023 8:27:55 AM Vial: 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	223.249 %	217.659 %	-0.002 ppb	94.665 ppb	1.823 ppb	1.071 ppb	-3.424 ppb	8.198 ppb	216.806 %
Concentration per Run 1	223.799 %	213.085 %	-0.002 ppb	111.636 ppb	2.451 ppb	2.243 ppb	-2.150 ppb	12.182 ppb	218.074 %
Concentration per Run 2	221.054 %	219.586 %	-0.002 ppb	106.900 ppb	2.005 ppb	0.730 ppb	-3.297 ppb	8.987 ppb	216.287 %
Concentration per Run 3	224.896 %	220.308 %	-0.002 ppb	65.458 ppb	1.011 ppb	0.241 ppb	-4.824 ppb	3.426 ppb	216.058 %
Concentration RSD	0.9 %	1.8 %	14.6 %	26.8 %	40.5 %	97.4 %	39.2 %	54.0 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.026 ppb	-0.007 ppb	1.541 ppb	15.053 ppb	0.003 ppb	-0.071 ppb	0.006 ppb	-0.209 ppb	211.749 %
Concentration per Run 1	-0.021 ppb	-0.009 ppb	1.968 ppb	19.590 ppb	0.002 ppb	-0.068 ppb	0.008 ppb	-0.215 ppb	193.189 %
Concentration per Run 2	-0.026 ppb	0.002 ppb	1.708 ppb	15.163 ppb	0.004 ppb	-0.070 ppb	0.002 ppb	-0.201 ppb	215.788 %
Concentration per Run 3	-0.030 ppb	-0.013 ppb	0.948 ppb	10.406 ppb	0.003 ppb	-0.074 ppb	0.008 ppb	-0.211 ppb	226.271 %
Concentration RSD	17.8 %	112.0 %	34.4 %	30.5 %	32.4 %	4.6 %	52.7 %	3.5 %	8.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.005 ppb	-0.006 ppb	0.042 ppb	0.013 ppb	207.945 %	0.002 ppb	0.000 ppb	207.579 %	0.021 ppb
Concentration per Run 1	0.002 ppb	-0.021 ppb	0.051 ppb	0.005 ppb	198.738 %	0.002 ppb	0.001 ppb	195.064 %	0.017 ppb
Concentration per Run 2	-0.009 ppb	-0.008 ppb	0.050 ppb	0.026 ppb	206.744 %	0.003 ppb	0.000 ppb	212.996 %	0.026 ppb
Concentration per Run 3	-0.008 ppb	0.012 ppb	0.025 ppb	0.008 ppb	218.352 %	0.000 ppb	0.000 ppb	214.677 %	0.019 ppb
Concentration RSD	115.8 %	275.1 %	34.6 %	88.7 %	4.7 %	74.0 %	327.5 %	5.2 %	21.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.021 ppb	227.312 %	211.657 %	0.003 ppb	-0.001 ppb	216.228 %
Concentration per Run 1	0.023 ppb	213.568 %	197.649 %	-0.004 ppb	0.000 ppb	201.971 %
Concentration per Run 2	0.030 ppb	227.032 %	213.653 %	0.012 ppb	0.000 ppb	212.690 %
Concentration per Run 3	0.010 ppb	241.335 %	223.668 %	0.001 ppb	-0.002 ppb	234.025 %
Concentration RSD	47.6 %	6.1 %	6.2 %	271.5 %	124.5 %	7.5 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 35 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: zL2343081-05D10 6020TL Rack: 1
 Analysis started at: 8/9/2023 8:39:26 AM Vial: 11

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.071 %	87.881 %	0.014 ppb	1,135,646.236 ppb	1,662.306 ppb	5,531.693 ppb	1,251.498 ppb	3,629.234 ppb	91.699 %
Concentration per Run 1	90.115 %	88.122 %	0.013 ppb	1,035,263.020 ppb	1,502.646 ppb	5,089.463 ppb	1,113.960 ppb	3,347.958 ppb	92.551 %
Concentration per Run 2	89.471 %	81.380 %	0.016 ppb	1,224,369.134 ppb	1,790.010 ppb	5,937.949 ppb	1,333.819 ppb	3,764.301 ppb	92.671 %
Concentration per Run 3	87.628 %	94.141 %	0.013 ppb	1,147,306.555 ppb	1,694.263 ppb	5,567.669 ppb	1,306.715 ppb	3,775.444 ppb	89.876 %
Concentration RSD	1.4 %	7.3 %	15.0 %	8.4 %	8.8 %	7.7 %	9.6 %	6.7 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	69.333 ppb	21.694 ppb	25.587 ppb	37.042 ppb	4.237 ppb	4.352 ppb	1.270 ppb	0.619 ppb	72.010 %
Concentration per Run 1	64.357 ppb	20.267 ppb	23.807 ppb	33.764 ppb	3.973 ppb	4.382 ppb	1.317 ppb	0.564 ppb	65.452 %
Concentration per Run 2	71.794 ppb	22.394 ppb	26.013 ppb	35.998 ppb	4.475 ppb	4.333 ppb	1.319 ppb	0.599 ppb	74.418 %
Concentration per Run 3	71.849 ppb	22.422 ppb	26.942 ppb	41.364 ppb	4.262 ppb	4.342 ppb	1.175 ppb	0.693 ppb	76.160 %
Concentration RSD	6.2 %	5.7 %	6.3 %	10.5 %	5.9 %	0.6 %	6.5 %	10.8 %	8.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.251 ppb	0.937 ppb	19.243 ppb	1.156 ppb	66.002 %	0.002 ppb	0.030 ppb	70.071 %	0.153 ppb
Concentration per Run 1	11.498 ppb	0.970 ppb	18.907 ppb	1.134 ppb	62.364 %	0.002 ppb	0.027 ppb	65.351 %	0.147 ppb
Concentration per Run 2	12.423 ppb	1.131 ppb	19.292 ppb	1.175 ppb	66.597 %	0.001 ppb	0.035 ppb	71.215 %	0.156 ppb
Concentration per Run 3	12.831 ppb	0.710 ppb	19.528 ppb	1.160 ppb	69.046 %	0.002 ppb	0.029 ppb	73.648 %	0.157 ppb
Concentration RSD	5.6 %	22.7 %	1.6 %	1.8 %	5.1 %	24.0 %	13.7 %	6.1 %	3.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.530 ppb	78.949 %	79.882 %	0.056 ppb	0.262 ppb	64.870 %
Concentration per Run 1	1.502 ppb	73.615 %	73.908 %	0.078 ppb	0.262 ppb	60.278 %
Concentration per Run 2	1.494 ppb	80.020 %	80.790 %	0.054 ppb	0.264 ppb	64.631 %
Concentration per Run 3	1.595 ppb	83.212 %	84.948 %	0.037 ppb	0.259 ppb	69.702 %
Concentration RSD	3.7 %	6.2 %	7.0 %	36.6 %	0.8 %	7.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 36 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: zL2343081-06D10 6020TL Rack: 1
 Analysis started at: 8/9/2023 8:43:56 AM Vial: 12

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.277 %	91.733 %	0.009 ppb	526,708.937 ppb	810.337 ppb	2,559.671 ppb	645.017 ppb	1,988.732 ppb	88.944 %
Concentration per Run 1	88.102 %	89.326 %	0.016 ppb	503,912.704 ppb	746.463 ppb	2,433.521 ppb	646.103 ppb	1,967.009 ppb	89.662 %
Concentration per Run 2	89.131 %	89.326 %	0.010 ppb	551,354.344 ppb	871.099 ppb	2,627.108 ppb	651.806 ppb	2,010.628 ppb	88.761 %
Concentration per Run 3	87.597 %	96.549 %	0.002 ppb	524,859.761 ppb	813.450 ppb	2,618.384 ppb	637.141 ppb	1,988.559 ppb	88.408 %
Concentration RSD	0.9 %	4.5 %	77.4 %	4.5 %	7.7 %	4.3 %	1.1 %	1.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	33.545 ppb	10.527 ppb	13.579 ppb	18.030 ppb	2.187 ppb	2.188 ppb	0.693 ppb	0.366 ppb	76.151 %
Concentration per Run 1	31.659 ppb	9.785 ppb	13.213 ppb	17.039 ppb	2.066 ppb	2.106 ppb	0.671 ppb	0.325 ppb	73.583 %
Concentration per Run 2	35.323 ppb	10.982 ppb	13.676 ppb	19.778 ppb	2.168 ppb	2.406 ppb	0.826 ppb	0.396 ppb	77.276 %
Concentration per Run 3	33.655 ppb	10.813 ppb	13.849 ppb	17.272 ppb	2.327 ppb	2.052 ppb	0.582 ppb	0.378 ppb	77.594 %
Concentration RSD	5.5 %	6.2 %	2.4 %	8.4 %	6.0 %	8.7 %	17.9 %	10.1 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.225 ppb	0.599 ppb	9.838 ppb	0.558 ppb	70.685 %	0.001 ppb	0.014 ppb	72.722 %	0.076 ppb
Concentration per Run 1	5.918 ppb	0.486 ppb	9.673 ppb	0.542 ppb	69.146 %	0.001 ppb	0.012 ppb	71.331 %	0.081 ppb
Concentration per Run 2	6.337 ppb	0.851 ppb	9.989 ppb	0.599 ppb	69.810 %	0.001 ppb	0.012 ppb	72.580 %	0.071 ppb
Concentration per Run 3	6.419 ppb	0.461 ppb	9.851 ppb	0.534 ppb	73.100 %	0.001 ppb	0.018 ppb	74.255 %	0.076 ppb
Concentration RSD	4.3 %	36.4 %	1.6 %	6.4 %	3.0 %	28.5 %	24.7 %	2.0 %	6.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.719 ppb	81.264 %	81.631 %	0.019 ppb	0.126 ppb	67.482 %
Concentration per Run 1	0.610 ppb	77.456 %	77.175 %	0.015 ppb	0.126 ppb	63.974 %
Concentration per Run 2	0.739 ppb	81.486 %	82.523 %	0.021 ppb	0.124 ppb	68.101 %
Concentration per Run 3	0.808 ppb	84.849 %	85.193 %	0.022 ppb	0.129 ppb	70.370 %
Concentration RSD	14.0 %	4.6 %	5.0 %	19.7 %	2.2 %	4.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 37 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343081-01D20 6020TL Rack 1
 Analysis started at: 8/9/2023 8:48:27 AM Vial 35

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.150 %	84.189 %	0.463 ppb	181,860.783 ppb	3,845.489 ppb	716.517 ppb	610.954 ppb	12,039.658 ppb	85.221 %
Concentration per Run 1	85.166 %	80.899 %	0.451 ppb	180,666.985 ppb	3,776.921 ppb	700.830 ppb	601.235 ppb	11,739.407 ppb	84.693 %
Concentration per Run 2	85.699 %	85.714 %	0.461 ppb	182,525.425 ppb	3,834.940 ppb	727.782 ppb	607.514 ppb	12,185.054 ppb	85.996 %
Concentration per Run 3	84.585 %	85.955 %	0.479 ppb	182,389.939 ppb	3,924.606 ppb	720.938 ppb	624.112 ppb	12,194.513 ppb	84.973 %
Concentration RSD	0.7 %	3.4 %	3.1 %	0.6 %	1.9 %	2.0 %	1.9 %	2.2 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.548 ppb	0.797 ppb	4,837.280 ppb	11,470.595 ppb	11.035 ppb	14.084 ppb	4.153 ppb	22.714 ppb	79.031 %
Concentration per Run 1	2.253 ppb	0.772 ppb	4,761.025 ppb	11,271.525 ppb	10.916 ppb	13.953 ppb	4.231 ppb	22.810 ppb	77.432 %
Concentration per Run 2	2.711 ppb	0.832 ppb	4,864.596 ppb	11,525.989 ppb	11.108 ppb	14.024 ppb	4.046 ppb	22.273 ppb	78.889 %
Concentration per Run 3	2.681 ppb	0.787 ppb	4,886.220 ppb	11,614.272 ppb	11.082 ppb	14.276 ppb	4.182 ppb	23.059 ppb	80.773 %
Concentration RSD	10.1 %	3.9 %	1.4 %	1.6 %	0.9 %	1.2 %	2.3 %	1.8 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.302 ppb	2.101 ppb	50.120 ppb	0.216 ppb	70.953 %	0.002 ppb	0.411 ppb	72.617 %	0.167 ppb
Concentration per Run 1	1.225 ppb	1.910 ppb	48.323 ppb	0.207 ppb	68.376 %	0.002 ppb	0.414 ppb	67.111 %	0.157 ppb
Concentration per Run 2	1.518 ppb	2.313 ppb	50.825 ppb	0.253 ppb	71.553 %	0.002 ppb	0.415 ppb	74.658 %	0.172 ppb
Concentration per Run 3	1.163 ppb	2.078 ppb	51.212 ppb	0.189 ppb	72.931 %	0.004 ppb	0.402 ppb	76.082 %	0.172 ppb
Concentration RSD	14.6 %	9.6 %	3.1 %	15.2 %	3.3 %	48.3 %	1.8 %	6.6 %	5.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	4.589 ppb	79.317 %	78.055 %	0.014 ppb	0.143 ppb	70.132 %
Concentration per Run 1	4.420 ppb	72.848 %	70.678 %	0.009 ppb	0.143 ppb	64.850 %
Concentration per Run 2	4.627 ppb	81.750 %	80.726 %	0.016 ppb	0.145 ppb	71.159 %
Concentration per Run 3	4.719 ppb	83.352 %	82.761 %	0.016 ppb	0.141 ppb	74.386 %
Concentration RSD	3.3 %	7.1 %	8.3 %	29.3 %	1.5 %	6.9 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 38 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343081-02D10 6020TL Rack 1
 Analysis started at: 8/9/2023 8:52:57 AM Vial 36

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.670 %	89.085 %	0.005 ppb	102,514.397 ppb	4,321.747 ppb	14.992 ppb	516.694 ppb	16,102.670 ppb	87.956 %
Concentration per Run 1	90.199 %	91.011 %	0.009 ppb	100,600.626 ppb	4,238.490 ppb	14.666 ppb	502.037 ppb	15,648.134 ppb	88.444 %
Concentration per Run 2	88.977 %	87.400 %	0.001 ppb	103,876.805 ppb	4,435.481 ppb	15.680 ppb	535.387 ppb	16,468.608 ppb	86.830 %
Concentration per Run 3	89.833 %	88.844 %	0.004 ppb	103,065.760 ppb	4,291.270 ppb	14.631 ppb	512.660 ppb	16,191.267 ppb	88.595 %
Concentration RSD	0.7 %	2.0 %	79.3 %	1.7 %	2.4 %	4.0 %	3.3 %	2.6 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.090 ppb	0.259 ppb	2,419.537 ppb	2,477.885 ppb	0.348 ppb	1.711 ppb	0.096 ppb	0.535 ppb	81.265 %
Concentration per Run 1	0.123 ppb	0.273 ppb	2,353.574 ppb	2,483.991 ppb	0.320 ppb	1.690 ppb	0.063 ppb	0.515 ppb	78.304 %
Concentration per Run 2	0.085 ppb	0.232 ppb	2,449.157 ppb	2,478.958 ppb	0.387 ppb	1.807 ppb	0.101 ppb	0.525 ppb	81.681 %
Concentration per Run 3	0.061 ppb	0.272 ppb	2,455.881 ppb	2,470.706 ppb	0.338 ppb	1.635 ppb	0.125 ppb	0.566 ppb	83.811 %
Concentration RSD	34.6 %	8.9 %	2.4 %	0.3 %	10.0 %	5.1 %	32.4 %	5.0 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.479 ppb	0.215 ppb	76.600 ppb	0.091 ppb	76.290 %	0.001 ppb	0.021 ppb	78.116 %	0.015 ppb
Concentration per Run 1	0.539 ppb	0.310 ppb	76.272 ppb	0.098 ppb	74.326 %	0.001 ppb	0.018 ppb	76.331 %	0.017 ppb
Concentration per Run 2	0.413 ppb	0.140 ppb	76.677 ppb	0.092 ppb	76.317 %	0.003 ppb	0.023 ppb	78.095 %	0.015 ppb
Concentration per Run 3	0.486 ppb	0.193 ppb	76.851 ppb	0.083 ppb	78.227 %	0.000 ppb	0.023 ppb	79.923 %	0.012 ppb
Concentration RSD	13.2 %	40.6 %	0.4 %	8.4 %	2.6 %	96.9 %	14.9 %	2.3 %	17.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	39.966 ppb	85.142 %	84.890 %	0.012 ppb	0.044 ppb	77.860 %
Concentration per Run 1	39.350 ppb	82.006 %	81.390 %	0.006 ppb	0.043 ppb	74.847 %
Concentration per Run 2	39.816 ppb	85.293 %	85.364 %	0.014 ppb	0.043 ppb	77.919 %
Concentration per Run 3	40.733 ppb	88.126 %	87.916 %	0.014 ppb	0.047 ppb	80.813 %
Concentration RSD	1.8 %	3.6 %	3.9 %	41.7 %	4.3 %	3.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 39 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/9/2023 8:57:27 AM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.454 %	94.302 %	59.494 ppb	6,569.211 ppb	6,641.201 ppb	66.005 ppb	6,555.879 ppb	6,335.812 ppb	95.332 %
Concentration per Run 1	97.296 %	97.271 %	60.045 ppb	6,225.647 ppb	6,403.644 ppb	65.614 ppb	6,183.797 ppb	5,937.817 ppb	96.434 %
Concentration per Run 2	96.364 %	92.937 %	58.819 ppb	6,564.912 ppb	6,611.945 ppb	67.002 ppb	6,706.463 ppb	6,496.701 ppb	95.057 %
Concentration per Run 3	95.703 %	92.697 %	59.617 ppb	6,917.075 ppb	6,908.015 ppb	65.399 ppb	6,777.378 ppb	6,572.919 ppb	94.506 %
Recovery Percentage 1			99.157 %	109.487 %	110.687 %	110.009 %	109.265 %	105.597 %	
Concentration RSD	0.8 %	2.7 %	1.0 %	5.3 %	3.8 %	1.3 %	4.9 %	5.5 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	61.750 ppb	61.507 ppb	61.614 ppb	6,183.393 ppb	61.853 ppb	61.800 ppb	61.728 ppb	62.523 ppb	90.102 %
Concentration per Run 1	58.234 ppb	58.746 ppb	59.506 ppb	5,940.267 ppb	60.321 ppb	60.121 ppb	61.116 ppb	60.773 ppb	90.001 %
Concentration per Run 2	62.987 ppb	62.243 ppb	60.559 ppb	6,192.103 ppb	62.227 ppb	61.573 ppb	61.652 ppb	62.678 ppb	89.259 %
Concentration per Run 3	64.029 ppb	63.531 ppb	64.776 ppb	6,417.808 ppb	63.012 ppb	63.706 ppb	62.415 ppb	64.118 ppb	91.045 %
Recovery Percentage 1	102.917 %	102.511 %	102.690 %	103.057 %	103.088 %	102.999 %	102.879 %	104.205 %	
Concentration RSD	5.0 %	4.0 %	4.5 %	3.9 %	2.2 %	2.9 %	1.1 %	2.7 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.424 ppb	60.183 ppb	61.066 ppb	59.755 ppb	87.198 %	60.253 ppb	60.093 ppb	88.124 %	59.764 ppb
Concentration per Run 1	57.937 ppb	57.105 ppb	58.728 ppb	58.708 ppb	86.749 %	59.471 ppb	58.871 ppb	85.202 %	58.978 ppb
Concentration per Run 2	62.337 ppb	59.401 ppb	60.241 ppb	59.650 ppb	87.067 %	61.070 ppb	61.145 ppb	87.354 %	59.465 ppb
Concentration per Run 3	60.997 ppb	64.043 ppb	64.230 ppb	60.907 ppb	87.777 %	60.219 ppb	60.264 ppb	91.815 %	60.850 ppb
Recovery Percentage 1	100.706 %	100.305 %	101.777 %	99.592 %		100.422 %	100.155 %		99.607 %
Concentration RSD	3.7 %	5.9 %	4.7 %	1.8 %	0.6 %	1.3 %	1.9 %	3.8 %	1.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	60.672 ppb	91.148 %	90.709 %	60.262 ppb	61.504 ppb	88.752 %
Concentration per Run 1	59.965 ppb	88.429 %	87.880 %	57.876 ppb	60.461 ppb	86.609 %
Concentration per Run 2	60.413 ppb	91.090 %	89.324 %	60.702 ppb	61.832 ppb	88.319 %
Concentration per Run 3	61.637 ppb	93.924 %	94.922 %	62.208 ppb	62.218 ppb	91.329 %
Recovery Percentage 1	101.120 %			100.437 %	102.506 %	
Concentration RSD	1.4 %	3.0 %	4.1 %	3.6 %	1.5 %	2.7 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 40 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/9/2023 9:01:59 AM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.831 %	101.204 %	0.006 ppb	17.767 ppb	0.217 ppb	0.291 ppb	1.541 ppb	1.566 ppb	99.472 %
Concentration per Run 1	102.921 %	101.846 %	0.004 ppb	19.361 ppb	0.359 ppb	0.137 ppb	4.373 ppb	1.314 ppb	98.831 %
Concentration per Run 2	105.348 %	98.475 %	0.003 ppb	17.891 ppb	0.166 ppb	0.555 ppb	-1.272 ppb	1.374 ppb	99.841 %
Concentration per Run 3	103.226 %	103.291 %	0.010 ppb	16.049 ppb	0.127 ppb	0.180 ppb	1.522 ppb	2.011 ppb	99.746 %
Recovery Percentage 1			1.133 %	17.767 %	0.310 %	2.908 %	1.541 %	1.566 %	
Concentration RSD	1.3 %	2.4 %	73.8 %	9.3 %	57.0 %	79.1 %	183.1 %	24.7 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.013 ppb	0.022 ppb	0.119 ppb	13.116 ppb	0.005 ppb	0.118 ppb	0.064 ppb	0.514 ppb	94.308 %
Concentration per Run 1	0.005 ppb	0.035 ppb	0.154 ppb	12.837 ppb	0.002 ppb	0.146 ppb	0.076 ppb	0.462 ppb	92.666 %
Concentration per Run 2	0.000 ppb	0.019 ppb	0.079 ppb	14.462 ppb	0.007 ppb	0.083 ppb	0.064 ppb	0.480 ppb	93.361 %
Concentration per Run 3	0.033 ppb	0.011 ppb	0.123 ppb	12.048 ppb	0.007 ppb	0.124 ppb	0.053 ppb	0.599 ppb	96.898 %
Recovery Percentage 1	0.253 %	2.165 %	11.892 %	26.231 %	1.024 %	5.888 %	6.424 %	10.274 %	
Concentration RSD	141.6 %	56.9 %	32.0 %	9.4 %	56.3 %	27.1 %	17.5 %	14.4 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.024 ppb	0.057 ppb	0.003 ppb	0.150 ppb	93.131 %	0.006 ppb	0.002 ppb	92.005 %	0.059 ppb
Concentration per Run 1	0.015 ppb	0.043 ppb	0.003 ppb	0.146 ppb	91.024 %	0.007 ppb	0.004 ppb	90.668 %	0.051 ppb
Concentration per Run 2	0.033 ppb	0.099 ppb	0.002 ppb	0.149 ppb	93.182 %	0.007 ppb	0.001 ppb	92.121 %	0.069 ppb
Concentration per Run 3	0.023 ppb	0.028 ppb	0.004 ppb	0.156 ppb	95.188 %	0.004 ppb	0.001 ppb	93.226 %	0.059 ppb
Recovery Percentage 1	4.736 %	1.131 %	0.029 %	7.517 %		1.534 %	1.021 %		1.485 %
Concentration RSD	39.4 %	66.0 %	24.5 %	3.4 %	2.2 %	28.1 %	90.0 %	1.4 %	15.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.020 ppb	94.149 %	93.296 %	0.316 ppb	0.010 ppb	95.803 %
Concentration per Run 1	0.016 ppb	90.854 %	89.278 %	0.313 ppb	0.010 ppb	92.664 %
Concentration per Run 2	0.025 ppb	95.235 %	94.317 %	0.361 ppb	0.010 ppb	95.550 %
Concentration per Run 3	0.018 ppb	96.359 %	96.294 %	0.275 ppb	0.010 ppb	99.196 %
Recovery Percentage 1	3.959 %			31.635 %	0.997 %	
Concentration RSD	25.2 %	3.1 %	3.9 %	13.7 %	4.4 %	3.4 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 41 User name: ALPHALAB\la2-icpmsq2 Comment: CCV/MCCV
 Analysis label: CCV Rack: 0
 Analysis started at: 8/9/2023 9:14:27 AM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.922 %	107.464 %	59.008 ppb	6,345.926 ppb	6,439.487 ppb	63.446 ppb	6,399.340 ppb	6,275.046 ppb	104.433 %
Concentration per Run 1	106.618 %	112.199 %	58.511 ppb	6,334.387 ppb	6,432.063 ppb	65.813 ppb	6,643.576 ppb	6,466.575 ppb	105.849 %
Concentration per Run 2	105.031 %	108.828 %	60.516 ppb	6,241.820 ppb	6,370.991 ppb	61.734 ppb	6,175.062 ppb	5,912.983 ppb	102.694 %
Concentration per Run 3	106.117 %	101.364 %	57.998 ppb	6,461.569 ppb	6,515.408 ppb	62.790 ppb	6,379.381 ppb	6,445.580 ppb	104.755 %
Recovery Percentage 1			98.347 %	105.765 %	107.325 %	105.743 %	106.656 %	104.584 %	
Concentration RSD	0.8 %	5.2 %	2.3 %	1.7 %	1.1 %	3.3 %	3.7 %	5.0 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.630 ppb	60.044 ppb	60.944 ppb	6,004.078 ppb	60.017 ppb	61.160 ppb	60.897 ppb	61.630 ppb	98.924 %
Concentration per Run 1	58.601 ppb	58.377 ppb	60.992 ppb	5,878.062 ppb	57.760 ppb	58.684 ppb	58.500 ppb	60.295 ppb	101.478 %
Concentration per Run 2	59.714 ppb	61.344 ppb	60.846 ppb	6,166.005 ppb	61.899 ppb	63.740 ppb	63.103 ppb	63.497 ppb	97.370 %
Concentration per Run 3	60.573 ppb	60.413 ppb	60.993 ppb	5,968.166 ppb	60.393 ppb	61.057 ppb	61.088 ppb	61.098 ppb	97.924 %
Recovery Percentage 1	99.383 %	100.074 %	101.573 %	100.068 %	100.029 %	101.933 %	101.495 %	102.717 %	
Concentration RSD	1.7 %	2.5 %	0.1 %	2.5 %	3.5 %	4.1 %	3.8 %	2.7 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.012 ppb	60.367 ppb	60.077 ppb	58.914 ppb	93.481 %	60.654 ppb	60.600 ppb	93.051 %	59.747 ppb
Concentration per Run 1	59.627 ppb	60.383 ppb	62.212 ppb	58.973 ppb	95.777 %	58.820 ppb	59.033 ppb	98.125 %	58.522 ppb
Concentration per Run 2	59.368 ppb	60.890 ppb	59.856 ppb	59.611 ppb	93.394 %	61.589 ppb	60.911 ppb	92.272 %	61.141 ppb
Concentration per Run 3	61.041 ppb	59.828 ppb	58.163 ppb	58.159 ppb	91.273 %	61.553 ppb	61.857 ppb	88.756 %	59.578 ppb
Recovery Percentage 1	100.020 %	100.612 %	100.128 %	98.190 %		101.090 %	101.001 %		99.579 %
Concentration RSD	1.5 %	0.9 %	3.4 %	1.2 %	2.4 %	2.6 %	2.4 %	5.1 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.744 ppb	97.151 %	96.977 %	60.272 ppb	61.828 ppb	95.524 %
Concentration per Run 1	60.122 ppb	97.506 %	97.955 %	57.172 ppb	60.610 ppb	94.808 %
Concentration per Run 2	59.880 ppb	97.816 %	97.695 %	61.469 ppb	62.098 ppb	96.037 %
Concentration per Run 3	59.231 ppb	96.129 %	95.281 %	62.177 ppb	62.776 ppb	95.728 %
Recovery Percentage 1	99.574 %			100.454 %	103.047 %	
Concentration RSD	0.8 %	0.9 %	1.5 %	4.5 %	1.8 %	0.7 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 42 User name: ALPHALAB\la2-icpmsq2 Comment: CCB
 Analysis label: CCB Rack: 0
 Analysis started at: 8/9/2023 9:18:58 AM Vial: 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.788 %	107.063 %	0.006 ppb	11.910 ppb	0.917 ppb	0.672 ppb	6.600 ppb	2.479 ppb	101.941 %
Concentration per Run 1	107.184 %	108.828 %	0.007 ppb	12.553 ppb	0.881 ppb	0.256 ppb	6.990 ppb	0.886 ppb	102.155 %
Concentration per Run 2	108.357 %	110.273 %	0.007 ppb	11.758 ppb	0.898 ppb	1.193 ppb	4.443 ppb	1.079 ppb	101.049 %
Concentration per Run 3	107.824 %	102.087 %	0.005 ppb	11.419 ppb	0.970 ppb	0.567 ppb	8.368 ppb	5.472 ppb	102.619 %
Recovery Percentage 1			1.194 %	11.910 %	1.309 %	6.719 %	6.600 %	2.479 %	
Concentration RSD	0.5 %	4.1 %	20.4 %	4.9 %	5.2 %	71.0 %	30.2 %	104.6 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.009 ppb	0.009 ppb	0.127 ppb	13.291 ppb	0.002 ppb	0.073 ppb	0.074 ppb	0.589 ppb	97.082 %
Concentration per Run 1	-0.011 ppb	0.017 ppb	0.156 ppb	14.419 ppb	0.005 ppb	0.096 ppb	0.091 ppb	0.535 ppb	100.813 %
Concentration per Run 2	-0.008 ppb	0.002 ppb	0.134 ppb	12.570 ppb	0.000 ppb	0.049 ppb	0.047 ppb	0.636 ppb	92.405 %
Concentration per Run 3	-0.009 ppb	0.009 ppb	0.090 ppb	12.883 ppb	0.000 ppb	0.074 ppb	0.083 ppb	0.597 ppb	98.029 %
Recovery Percentage 1	-0.186 %	0.941 %	12.666 %	26.581 %	0.318 %	3.650 %	7.370 %	11.784 %	
Concentration RSD	13.4 %	78.8 %	26.4 %	7.4 %	169.1 %	32.8 %	31.3 %	8.6 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.019 ppb	0.070 ppb	0.006 ppb	0.148 ppb	96.183 %	0.004 ppb	0.002 ppb	96.254 %	0.058 ppb
Concentration per Run 1	0.019 ppb	0.058 ppb	0.006 ppb	0.151 ppb	98.376 %	0.004 ppb	0.003 ppb	102.287 %	0.058 ppb
Concentration per Run 2	0.024 ppb	0.078 ppb	0.007 ppb	0.179 ppb	95.696 %	0.002 ppb	0.002 ppb	94.723 %	0.056 ppb
Concentration per Run 3	0.013 ppb	0.075 ppb	0.006 ppb	0.115 ppb	94.477 %	0.005 ppb	0.002 ppb	91.753 %	0.061 ppb
Recovery Percentage 1	3.761 %	1.407 %	0.062 %	7.423 %		0.976 %	1.236 %		1.459 %
Concentration RSD	28.9 %	15.3 %	14.1 %	21.6 %	2.1 %	38.1 %	14.2 %	5.6 %	4.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.023 ppb	98.394 %	98.113 %	0.337 ppb	0.010 ppb	100.670 %
Concentration per Run 1	0.011 ppb	98.986 %	99.788 %	0.333 ppb	0.009 ppb	101.158 %
Concentration per Run 2	0.031 ppb	99.606 %	99.634 %	0.385 ppb	0.009 ppb	101.109 %
Concentration per Run 3	0.029 ppb	96.590 %	94.916 %	0.291 ppb	0.011 ppb	99.745 %
Recovery Percentage 1	4.664 %			33.652 %	0.992 %	
Concentration RSD	47.8 %	1.6 %	2.8 %	13.9 %	12.1 %	0.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 43 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343081-03D10 6020TL Rack 1
 Analysis started at: 8/9/2023 9:23:53 AM Vial 37

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.082 %	98.154 %	0.008 ppb	49,240.274 ppb	1,423.693 ppb	3.018 ppb	852.481 ppb	14,150.140 ppb	94.168 %
Concentration per Run 1	97.455 %	98.475 %	0.007 ppb	50,506.613 ppb	1,467.395 ppb	2.577 ppb	867.607 ppb	14,537.184 ppb	94.318 %
Concentration per Run 2	97.223 %	91.493 %	0.009 ppb	51,124.961 ppb	1,482.756 ppb	2.967 ppb	873.313 ppb	14,608.727 ppb	93.394 %
Concentration per Run 3	96.566 %	104.494 %	0.009 ppb	46,089.247 ppb	1,320.929 ppb	3.511 ppb	816.523 ppb	13,304.509 ppb	94.792 %
Concentration RSD	0.5 %	6.6 %	16.6 %	5.6 %	6.3 %	15.5 %	3.7 %	5.2 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.017 ppb	0.089 ppb	645.497 ppb	2,071.864 ppb	0.016 ppb	0.120 ppb	0.078 ppb	0.189 ppb	93.072 %
Concentration per Run 1	-0.002 ppb	0.067 ppb	647.525 ppb	2,025.371 ppb	0.018 ppb	0.090 ppb	0.088 ppb	0.195 ppb	96.797 %
Concentration per Run 2	0.041 ppb	0.105 ppb	666.759 ppb	2,179.493 ppb	0.014 ppb	0.131 ppb	0.054 ppb	0.119 ppb	90.448 %
Concentration per Run 3	0.011 ppb	0.095 ppb	622.207 ppb	2,010.727 ppb	0.015 ppb	0.140 ppb	0.092 ppb	0.252 ppb	91.970 %
Concentration RSD	130.5 %	22.4 %	3.5 %	4.5 %	12.7 %	22.2 %	26.5 %	35.3 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.204 ppb	0.125 ppb	59.400 ppb	0.059 ppb	85.868 %	0.002 ppb	0.008 ppb	88.882 %	0.011 ppb
Concentration per Run 1	0.220 ppb	0.095 ppb	62.006 ppb	0.033 ppb	87.536 %	0.004 ppb	0.007 ppb	93.987 %	0.009 ppb
Concentration per Run 2	0.226 ppb	0.105 ppb	60.366 ppb	0.068 ppb	84.755 %	0.002 ppb	0.008 ppb	88.453 %	0.008 ppb
Concentration per Run 3	0.165 ppb	0.174 ppb	55.828 ppb	0.076 ppb	85.313 %	0.001 ppb	0.009 ppb	84.206 %	0.017 ppb
Concentration RSD	16.5 %	34.4 %	5.4 %	38.8 %	1.7 %	67.1 %	15.7 %	5.5 %	43.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	10.493 ppb	94.152 %	94.928 %	0.094 ppb	0.045 ppb	90.821 %
Concentration per Run 1	10.523 ppb	94.601 %	95.527 %	0.077 ppb	0.043 ppb	89.437 %
Concentration per Run 2	10.632 ppb	94.948 %	95.382 %	0.110 ppb	0.045 ppb	91.297 %
Concentration per Run 3	10.323 ppb	92.908 %	93.876 %	0.095 ppb	0.046 ppb	91.730 %
Concentration RSD	1.5 %	1.2 %	1.0 %	17.6 %	3.9 %	1.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 44 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: zL2343081-04D10 6020TL Rack: 1
 Analysis started at: 8/9/2023 9:28:21 AM Vial: 38

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.971 %	89.968 %	0.010 ppb	598,314.765 ppb	1,698.707 ppb	2,895.304 ppb	933.561 ppb	1,640.638 ppb	90.113 %
Concentration per Run 1	92.053 %	95.586 %	0.004 ppb	559,332.280 ppb	1,593.393 ppb	2,831.322 ppb	902.039 ppb	1,535.849 ppb	92.872 %
Concentration per Run 2	89.749 %	79.695 %	0.010 ppb	646,065.525 ppb	1,838.496 ppb	3,109.752 ppb	993.414 ppb	1,843.963 ppb	89.188 %
Concentration per Run 3	88.109 %	94.623 %	0.016 ppb	589,546.490 ppb	1,664.231 ppb	2,744.838 ppb	905.229 ppb	1,542.101 ppb	88.279 %
Concentration RSD	2.2 %	9.9 %	60.6 %	7.4 %	7.4 %	6.6 %	5.6 %	10.7 %	2.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	35.867 ppb	55.629 ppb	57.229 ppb	356.366 ppb	0.286 ppb	0.532 ppb	0.593 ppb	0.509 ppb	74.706 %
Concentration per Run 1	33.317 ppb	52.024 ppb	54.852 ppb	334.688 ppb	0.215 ppb	0.458 ppb	0.588 ppb	0.544 ppb	78.218 %
Concentration per Run 2	38.633 ppb	59.944 ppb	61.464 ppb	367.020 ppb	0.354 ppb	0.514 ppb	0.565 ppb	0.450 ppb	73.186 %
Concentration per Run 3	35.652 ppb	54.921 ppb	55.372 ppb	367.392 ppb	0.289 ppb	0.624 ppb	0.627 ppb	0.532 ppb	72.714 %
Concentration RSD	7.4 %	7.2 %	6.4 %	5.3 %	24.3 %	15.8 %	5.3 %	10.1 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	8.271 ppb	0.750 ppb	15.305 ppb	0.883 ppb	68.512 %	0.014 ppb	0.006 ppb	73.500 %	0.143 ppb
Concentration per Run 1	8.160 ppb	0.777 ppb	15.488 ppb	0.907 ppb	68.207 %	0.012 ppb	0.007 ppb	74.749 %	0.131 ppb
Concentration per Run 2	8.526 ppb	0.781 ppb	15.446 ppb	0.898 ppb	67.535 %	0.014 ppb	0.009 ppb	72.289 %	0.153 ppb
Concentration per Run 3	8.127 ppb	0.691 ppb	14.983 ppb	0.842 ppb	69.794 %	0.017 ppb	0.003 ppb	73.463 %	0.144 ppb
Concentration RSD	2.7 %	6.7 %	1.8 %	4.0 %	1.7 %	17.4 %	46.7 %	1.7 %	7.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2.341 ppb	83.372 %	84.787 %	0.067 ppb	2.861 ppb	70.782 %
Concentration per Run 1	2.299 ppb	82.039 %	83.878 %	0.050 ppb	2.812 ppb	68.595 %
Concentration per Run 2	2.327 ppb	83.123 %	84.504 %	0.077 ppb	2.862 ppb	70.739 %
Concentration per Run 3	2.396 ppb	84.954 %	85.980 %	0.074 ppb	2.910 ppb	73.013 %
Concentration RSD	2.1 %	1.8 %	1.3 %	22.0 %	1.7 %	3.1 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 45 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343081-05D100 6020TL Rack: 1
 Analysis started at: 8/9/2023 9:32:49 AM Vial: 39

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.863 %	103.531 %	0.010 ppb	102,420.925 ppb	159.378 ppb	531.188 ppb	132.289 ppb	384.919 ppb	91.761 %
Concentration per Run 1	95.027 %	103.531 %	0.015 ppb	103,335.094 ppb	159.820 ppb	554.462 ppb	138.901 ppb	382.437 ppb	93.294 %
Concentration per Run 2	94.788 %	96.549 %	0.003 ppb	107,188.948 ppb	166.913 ppb	543.238 ppb	135.543 ppb	405.255 ppb	90.592 %
Concentration per Run 3	94.774 %	110.514 %	0.011 ppb	96,738.734 ppb	151.401 ppb	495.866 ppb	122.423 ppb	367.066 ppb	91.397 %
Concentration RSD	0.2 %	6.7 %	60.7 %	5.2 %	4.9 %	5.9 %	6.6 %	5.0 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	6.630 ppb	2.025 ppb	2.552 ppb	5.361 ppb	0.414 ppb	0.404 ppb	0.130 ppb	0.167 ppb	90.932 %
Concentration per Run 1	6.477 ppb	2.069 ppb	2.399 ppb	4.455 ppb	0.383 ppb	0.324 ppb	0.133 ppb	0.208 ppb	96.986 %
Concentration per Run 2	6.878 ppb	2.034 ppb	2.530 ppb	5.822 ppb	0.421 ppb	0.489 ppb	0.144 ppb	0.164 ppb	90.086 %
Concentration per Run 3	6.535 ppb	1.972 ppb	2.726 ppb	5.806 ppb	0.439 ppb	0.400 ppb	0.114 ppb	0.131 ppb	85.724 %
Concentration RSD	3.3 %	2.4 %	6.5 %	14.6 %	6.8 %	20.3 %	11.7 %	23.0 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.253 ppb	0.171 ppb	1.758 ppb	0.123 ppb	83.554 %	0.002 ppb	0.005 ppb	86.082 %	0.013 ppb
Concentration per Run 1	1.186 ppb	0.169 ppb	1.807 ppb	0.117 ppb	84.550 %	0.003 ppb	0.004 ppb	89.689 %	0.019 ppb
Concentration per Run 2	1.337 ppb	0.102 ppb	1.758 ppb	0.114 ppb	83.139 %	0.001 ppb	0.009 ppb	85.696 %	0.010 ppb
Concentration per Run 3	1.236 ppb	0.241 ppb	1.708 ppb	0.138 ppb	82.973 %	0.003 ppb	0.003 ppb	82.860 %	0.010 ppb
Concentration RSD	6.1 %	40.6 %	2.8 %	10.6 %	1.0 %	34.1 %	63.5 %	4.0 %	38.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.146 ppb	92.291 %	92.616 %	0.041 ppb	0.026 ppb	83.913 %
Concentration per Run 1	0.163 ppb	92.358 %	93.792 %	0.031 ppb	0.026 ppb	83.361 %
Concentration per Run 2	0.156 ppb	92.819 %	92.373 %	0.048 ppb	0.025 ppb	83.463 %
Concentration per Run 3	0.119 ppb	91.697 %	91.684 %	0.044 ppb	0.025 ppb	84.914 %
Concentration RSD	16.1 %	0.6 %	1.2 %	22.3 %	1.9 %	1.0 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 46 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343081-06D50 6020TL Rack 1
 Analysis started at: 8/9/2023 9:37:16 AM Vial 40

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.342 %	103.130 %	0.006 ppb	101,941.400 ppb	160.311 ppb	510.444 ppb	136.677 ppb	424.964 ppb	90.782 %
Concentration per Run 1	94.394 %	103.050 %	0.005 ppb	103,193.394 ppb	171.783 ppb	525.300 ppb	140.711 ppb	463.208 ppb	90.386 %
Concentration per Run 2	94.918 %	107.624 %	0.008 ppb	98,167.679 ppb	146.588 ppb	494.465 ppb	134.339 ppb	420.636 ppb	92.040 %
Concentration per Run 3	93.714 %	98.716 %	0.005 ppb	104,463.128 ppb	162.564 ppb	511.566 ppb	134.982 ppb	391.046 ppb	89.921 %
Concentration RSD	0.6 %	4.3 %	33.9 %	3.3 %	8.0 %	3.0 %	2.6 %	8.5 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	6.967 ppb	2.143 ppb	2.874 ppb	5.283 ppb	0.449 ppb	0.465 ppb	0.125 ppb	0.129 ppb	88.486 %
Concentration per Run 1	6.854 ppb	2.138 ppb	2.725 ppb	7.243 ppb	0.385 ppb	0.462 ppb	0.121 ppb	0.123 ppb	91.127 %
Concentration per Run 2	6.769 ppb	2.186 ppb	2.771 ppb	4.306 ppb	0.465 ppb	0.389 ppb	0.083 ppb	0.072 ppb	87.578 %
Concentration per Run 3	7.277 ppb	2.105 ppb	3.126 ppb	4.299 ppb	0.498 ppb	0.544 ppb	0.169 ppb	0.192 ppb	86.752 %
Concentration RSD	3.9 %	1.9 %	7.6 %	32.1 %	12.9 %	16.7 %	34.7 %	46.8 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.245 ppb	0.167 ppb	1.958 ppb	0.116 ppb	81.225 %	0.001 ppb	0.002 ppb	85.417 %	0.016 ppb
Concentration per Run 1	1.085 ppb	0.214 ppb	1.999 ppb	0.088 ppb	81.173 %	0.002 ppb	0.002 ppb	88.458 %	0.013 ppb
Concentration per Run 2	1.271 ppb	0.183 ppb	1.948 ppb	0.117 ppb	81.164 %	0.001 ppb	0.004 ppb	83.876 %	0.017 ppb
Concentration per Run 3	1.378 ppb	0.105 ppb	1.927 ppb	0.143 ppb	81.337 %	0.002 ppb	0.001 ppb	83.916 %	0.019 ppb
Concentration RSD	11.9 %	33.7 %	1.9 %	23.5 %	0.1 %	47.4 %	64.7 %	3.1 %	18.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.163 ppb	90.751 %	91.827 %	0.031 ppb	0.025 ppb	82.828 %
Concentration per Run 1	0.148 ppb	90.710 %	92.957 %	0.019 ppb	0.023 ppb	81.655 %
Concentration per Run 2	0.180 ppb	89.046 %	89.410 %	0.037 ppb	0.026 ppb	81.605 %
Concentration per Run 3	0.162 ppb	92.496 %	93.113 %	0.037 ppb	0.026 ppb	85.225 %
Concentration RSD	9.7 %	1.9 %	2.3 %	34.1 %	5.8 %	2.5 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 47 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343081-04D50 6020TL Rack 1
 Analysis started at: 8/9/2023 9:41:44 AM Vial 41

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.764 %	94.944 %	0.007 ppb	116,829.010 ppb	334.618 ppb	594.330 ppb	205.483 ppb	364.331 ppb	88.928 %
Concentration per Run 1	91.474 %	102.568 %	0.005 ppb	111,505.184 ppb	320.049 ppb	564.697 ppb	190.115 ppb	372.698 ppb	88.616 %
Concentration per Run 2	91.633 %	87.640 %	0.011 ppb	122,435.872 ppb	336.687 ppb	623.634 ppb	216.639 ppb	368.416 ppb	89.299 %
Concentration per Run 3	92.185 %	94.623 %	0.005 ppb	116,545.976 ppb	347.118 ppb	594.660 ppb	209.695 ppb	351.878 ppb	88.869 %
Concentration RSD	0.4 %	7.9 %	50.7 %	4.7 %	4.1 %	5.0 %	6.7 %	3.0 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	7.377 ppb	11.266 ppb	11.843 ppb	69.441 ppb	0.062 ppb	0.132 ppb	0.162 ppb	0.577 ppb	86.045 %
Concentration per Run 1	7.427 ppb	10.920 ppb	11.603 ppb	70.212 ppb	0.055 ppb	0.031 ppb	0.161 ppb	0.582 ppb	88.619 %
Concentration per Run 2	7.190 ppb	11.396 ppb	11.815 ppb	66.551 ppb	0.060 ppb	0.206 ppb	0.212 ppb	0.592 ppb	86.057 %
Concentration per Run 3	7.516 ppb	11.482 ppb	12.112 ppb	71.561 ppb	0.072 ppb	0.159 ppb	0.111 ppb	0.557 ppb	83.459 %
Concentration RSD	2.3 %	2.7 %	2.2 %	3.7 %	13.9 %	68.7 %	31.4 %	3.2 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.692 ppb	0.183 ppb	2.973 ppb	0.165 ppb	79.134 %	0.004 ppb	0.001 ppb	83.373 %	0.029 ppb
Concentration per Run 1	1.645 ppb	0.197 ppb	3.042 ppb	0.144 ppb	79.861 %	0.005 ppb	0.000 ppb	85.051 %	0.025 ppb
Concentration per Run 2	1.690 ppb	0.261 ppb	2.914 ppb	0.171 ppb	79.215 %	0.005 ppb	0.002 ppb	82.182 %	0.037 ppb
Concentration per Run 3	1.741 ppb	0.092 ppb	2.962 ppb	0.181 ppb	78.326 %	0.001 ppb	0.003 ppb	82.887 %	0.024 ppb
Concentration RSD	2.9 %	46.7 %	2.2 %	11.7 %	1.0 %	65.6 %	109.9 %	1.8 %	25.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.480 ppb	89.487 %	90.541 %	0.025 ppb	0.547 ppb	81.842 %
Concentration per Run 1	0.434 ppb	89.955 %	91.221 %	0.017 ppb	0.541 ppb	80.686 %
Concentration per Run 2	0.491 ppb	88.221 %	89.449 %	0.029 ppb	0.546 ppb	81.111 %
Concentration per Run 3	0.516 ppb	90.285 %	90.951 %	0.030 ppb	0.553 ppb	83.729 %
Concentration RSD	8.8 %	1.2 %	1.1 %	27.7 %	1.1 %	2.0 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 48 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1809013-3D10 6020SL Rack 1
 Analysis started at: 8/9/2023 9:46:13 AM Vial 20

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.925 %	95.425 %	4.857 ppb	6,740.461 ppb	3,787.752 ppb	221.381 ppb	3,263.062 ppb	4,824.178 ppb	88.441 %
Concentration per Run 1	95.267 %	92.456 %	4.849 ppb	6,845.779 ppb	3,789.348 ppb	220.984 ppb	3,296.212 ppb	4,900.290 ppb	89.656 %
Concentration per Run 2	93.287 %	101.124 %	4.911 ppb	6,548.489 ppb	3,756.106 ppb	217.835 ppb	3,262.899 ppb	4,765.214 ppb	86.803 %
Concentration per Run 3	93.220 %	92.697 %	4.812 ppb	6,827.114 ppb	3,817.802 ppb	225.323 ppb	3,230.077 ppb	4,807.028 ppb	88.864 %
Concentration RSD	1.2 %	5.2 %	1.0 %	2.5 %	0.8 %	1.7 %	1.0 %	1.4 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.973 ppb	19.463 ppb	107.757 ppb	1,611.450 ppb	47.927 ppb	47.313 ppb	24.245 ppb	50.699 ppb	89.209 %
Concentration per Run 1	46.410 ppb	18.941 ppb	105.122 ppb	1,554.397 ppb	46.759 ppb	45.897 ppb	23.555 ppb	49.319 ppb	90.132 %
Concentration per Run 2	47.693 ppb	19.202 ppb	109.543 ppb	1,642.205 ppb	47.761 ppb	47.096 ppb	23.793 ppb	50.439 ppb	91.117 %
Concentration per Run 3	49.816 ppb	20.245 ppb	108.605 ppb	1,637.748 ppb	49.261 ppb	48.948 ppb	25.386 ppb	52.340 ppb	86.379 %
Concentration RSD	3.6 %	3.5 %	2.2 %	3.1 %	2.6 %	3.2 %	4.1 %	3.0 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	20.499 ppb	12.370 ppb	99.918 ppb	98.441 ppb	83.854 %	5.006 ppb	5.291 ppb	87.028 %	46.031 ppb
Concentration per Run 1	20.199 ppb	11.404 ppb	98.443 ppb	96.119 ppb	83.796 %	4.900 ppb	5.172 ppb	87.507 %	44.043 ppb
Concentration per Run 2	20.428 ppb	13.166 ppb	101.253 ppb	98.535 ppb	83.889 %	4.991 ppb	5.353 ppb	87.835 %	46.933 ppb
Concentration per Run 3	20.871 ppb	12.540 ppb	100.058 ppb	100.667 ppb	83.876 %	5.126 ppb	5.349 ppb	85.743 %	47.117 ppb
Concentration RSD	1.7 %	7.2 %	1.4 %	2.3 %	0.1 %	2.3 %	2.0 %	1.3 %	3.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	194.766 ppb	89.797 %	90.018 %	12.300 ppb	55.545 ppb	87.581 %
Concentration per Run 1	192.717 ppb	87.840 %	88.171 %	12.011 ppb	54.778 ppb	86.546 %
Concentration per Run 2	196.302 ppb	90.596 %	91.330 %	12.447 ppb	55.785 ppb	87.189 %
Concentration per Run 3	195.280 ppb	90.954 %	90.552 %	12.441 ppb	56.073 ppb	89.009 %
Concentration RSD	0.9 %	1.9 %	1.8 %	2.0 %	1.2 %	1.5 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 49 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809013-5D10 6020SL Rack: 1
 Analysis started at: 8/9/2023 9:50:42 AM Vial: 22

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.211 %	93.981 %	48.645 ppb	12,486.195 ppb	9,578.685 ppb	72.341 ppb	8,815.259 ppb	10,598.916 ppb	93.380 %
Concentration per Run 1	95.245 %	98.475 %	48.449 ppb	12,200.401 ppb	9,549.388 ppb	74.881 ppb	8,828.976 ppb	10,562.173 ppb	94.564 %
Concentration per Run 2	94.239 %	94.382 %	49.497 ppb	13,008.605 ppb	10,180.082 ppb	79.057 ppb	9,294.719 ppb	11,212.280 ppb	92.427 %
Concentration per Run 3	93.151 %	89.085 %	47.990 ppb	12,249.578 ppb	9,006.585 ppb	63.086 ppb	8,322.083 ppb	10,022.296 ppb	93.148 %
Concentration RSD	1.1 %	5.0 %	1.6 %	3.6 %	6.1 %	11.5 %	5.5 %	5.6 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	62.948 ppb	62.439 ppb	124.522 ppb	7,887.989 ppb	61.345 ppb	62.378 ppb	61.425 ppb	63.858 ppb	90.018 %
Concentration per Run 1	67.724 ppb	67.828 ppb	125.826 ppb	8,227.840 ppb	66.036 ppb	67.641 ppb	67.150 ppb	70.080 ppb	88.278 %
Concentration per Run 2	65.589 ppb	64.232 ppb	130.805 ppb	8,226.206 ppb	63.191 ppb	64.422 ppb	62.260 ppb	65.355 ppb	94.081 %
Concentration per Run 3	55.531 ppb	55.256 ppb	116.936 ppb	7,209.922 ppb	54.808 ppb	55.070 ppb	54.866 ppb	56.138 ppb	87.693 %
Concentration RSD	10.3 %	10.4 %	5.6 %	7.4 %	9.5 %	10.5 %	10.1 %	11.1 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	70.309 ppb	64.575 ppb	67.210 ppb	67.544 ppb	84.021 %	1.996 ppb	63.386 ppb	86.963 %	64.084 ppb
Concentration per Run 1	77.218 ppb	68.944 ppb	72.600 ppb	74.734 ppb	82.449 %	2.195 ppb	70.563 ppb	83.696 %	71.010 ppb
Concentration per Run 2	70.348 ppb	67.927 ppb	71.449 ppb	68.594 ppb	84.538 %	2.006 ppb	64.658 ppb	90.741 %	66.285 ppb
Concentration per Run 3	63.362 ppb	56.856 ppb	57.583 ppb	59.304 ppb	85.076 %	1.787 ppb	54.938 ppb	86.454 %	54.957 ppb
Concentration RSD	9.9 %	10.4 %	12.4 %	11.5 %	1.7 %	10.2 %	12.4 %	4.1 %	12.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	63.218 ppb	90.582 %	90.712 %	64.385 ppb	66.782 ppb	87.072 %
Concentration per Run 1	69.752 ppb	87.906 %	87.173 %	68.823 ppb	73.735 ppb	84.267 %
Concentration per Run 2	65.543 ppb	92.005 %	93.721 %	66.859 ppb	68.650 ppb	87.840 %
Concentration per Run 3	54.358 ppb	91.834 %	91.243 %	57.474 ppb	57.961 ppb	89.110 %
Concentration RSD	12.6 %	2.6 %	3.6 %	9.4 %	12.1 %	2.9 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 50 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: WG1809013-4 6020SL Rack 1
 Analysis started at: 8/9/2023 9:55:11 AM Vial 21

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.361 %	100.401 %	0.006 ppb	61,980.895 ppb	28,366.080 ppb	2.744 ppb	22,502.973 ppb	39,048.811 ppb	97.675 %
Concentration per Run 1	96.335 %	97.994 %	0.006 ppb	59,612.177 ppb	27,180.166 ppb	2.485 ppb	21,321.399 ppb	37,259.963 ppb	96.837 %
Concentration per Run 2	98.542 %	100.642 %	0.008 ppb	64,577.173 ppb	29,631.802 ppb	3.284 ppb	24,203.344 ppb	41,689.722 ppb	100.314 %
Concentration per Run 3	97.204 %	102.568 %	0.006 ppb	61,753.335 ppb	28,286.274 ppb	2.462 ppb	21,984.177 ppb	38,196.747 ppb	95.873 %
Concentration RSD	1.1 %	2.3 %	19.0 %	4.0 %	4.3 %	17.1 %	6.7 %	6.0 %	2.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.102 ppb	0.061 ppb	596.103 ppb	15,956.991 ppb	0.951 ppb	2.260 ppb	0.199 ppb	4.582 ppb	91.040 %
Concentration per Run 1	0.093 ppb	0.038 ppb	571.607 ppb	15,420.840 ppb	0.993 ppb	2.385 ppb	0.214 ppb	4.399 ppb	87.593 %
Concentration per Run 2	0.110 ppb	0.051 ppb	618.491 ppb	16,244.274 ppb	0.914 ppb	2.148 ppb	0.198 ppb	4.701 ppb	93.098 %
Concentration per Run 3	0.104 ppb	0.093 ppb	598.212 ppb	16,205.859 ppb	0.948 ppb	2.246 ppb	0.187 ppb	4.647 ppb	92.430 %
Concentration RSD	8.7 %	47.3 %	3.9 %	2.9 %	4.1 %	5.3 %	6.9 %	3.5 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	87.881 ppb	0.165 ppb	15.483 ppb	33.808 ppb	81.497 %	0.001 ppb	0.006 ppb	87.098 %	0.233 ppb
Concentration per Run 1	85.241 ppb	0.207 ppb	14.915 ppb	33.102 ppb	77.909 %	0.001 ppb	0.008 ppb	81.229 %	0.237 ppb
Concentration per Run 2	90.250 ppb	0.084 ppb	16.071 ppb	34.229 ppb	84.016 %	0.001 ppb	0.006 ppb	92.842 %	0.219 ppb
Concentration per Run 3	88.151 ppb	0.204 ppb	15.463 ppb	34.095 ppb	82.566 %	0.001 ppb	0.003 ppb	87.222 %	0.242 ppb
Concentration RSD	2.9 %	42.8 %	3.7 %	1.8 %	3.9 %	35.0 %	37.4 %	6.7 %	5.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.171 ppb	92.753 %	93.486 %	0.345 ppb	0.016 ppb	83.491 %
Concentration per Run 1	0.162 ppb	87.470 %	86.890 %	0.338 ppb	0.016 ppb	78.545 %
Concentration per Run 2	0.155 ppb	95.265 %	97.660 %	0.389 ppb	0.016 ppb	84.961 %
Concentration per Run 3	0.198 ppb	95.526 %	95.909 %	0.308 ppb	0.015 ppb	86.967 %
Concentration RSD	13.5 %	4.9 %	6.2 %	11.9 %	3.3 %	5.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 51 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2342975-02 6020SL Rack: 1
 Analysis started at: 8/9/2023 9:59:41 AM Vial: 19

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.510 %	102.087 %	0.007 ppb	64,191.177 ppb	29,213.739 ppb	2.736 ppb	22,993.991 ppb	39,576.840 ppb	99.910 %
Concentration per Run 1	99.527 %	93.660 %	0.005 ppb	65,680.048 ppb	30,085.710 ppb	2.069 ppb	22,634.618 ppb	38,661.451 ppb	100.242 %
Concentration per Run 2	100.132 %	106.180 %	0.014 ppb	64,630.277 ppb	29,269.476 ppb	2.766 ppb	24,136.287 ppb	41,730.843 ppb	100.967 %
Concentration per Run 3	98.872 %	106.421 %	0.002 ppb	62,263.207 ppb	28,286.031 ppb	3.373 ppb	22,211.068 ppb	38,338.226 ppb	98.523 %
Concentration RSD	0.6 %	7.1 %	88.4 %	2.7 %	3.1 %	23.8 %	4.4 %	4.7 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.107 ppb	0.065 ppb	601.564 ppb	16,244.020 ppb	0.937 ppb	2.147 ppb	0.162 ppb	4.451 ppb	94.144 %
Concentration per Run 1	0.130 ppb	0.060 ppb	592.236 ppb	16,096.839 ppb	0.902 ppb	2.218 ppb	0.163 ppb	4.477 ppb	90.984 %
Concentration per Run 2	0.102 ppb	0.075 ppb	612.470 ppb	16,222.702 ppb	0.917 ppb	1.974 ppb	0.142 ppb	4.265 ppb	97.942 %
Concentration per Run 3	0.089 ppb	0.061 ppb	599.984 ppb	16,412.518 ppb	0.993 ppb	2.249 ppb	0.180 ppb	4.611 ppb	93.506 %
Concentration RSD	19.9 %	13.3 %	1.7 %	1.0 %	5.2 %	7.0 %	11.6 %	3.9 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	88.296 ppb	0.110 ppb	15.644 ppb	33.797 ppb	85.533 %	0.000 ppb	0.006 ppb	91.029 %	0.186 ppb
Concentration per Run 1	86.049 ppb	0.082 ppb	14.959 ppb	33.080 ppb	83.844 %	0.000 ppb	0.005 ppb	87.288 %	0.179 ppb
Concentration per Run 2	90.528 ppb	0.144 ppb	16.430 ppb	34.145 ppb	86.307 %	0.000 ppb	0.007 ppb	95.277 %	0.199 ppb
Concentration per Run 3	88.311 ppb	0.104 ppb	15.542 ppb	34.167 ppb	86.447 %	0.000 ppb	0.007 ppb	90.522 %	0.180 ppb
Concentration RSD	2.5 %	28.8 %	4.7 %	1.8 %	1.7 %	73.7 %	13.8 %	4.4 %	6.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.073 ppb	95.596 %	95.912 %	0.105 ppb	0.008 ppb	85.306 %
Concentration per Run 1	0.056 ppb	90.546 %	89.799 %	0.079 ppb	0.010 ppb	80.974 %
Concentration per Run 2	0.074 ppb	98.045 %	100.350 %	0.123 ppb	0.007 ppb	86.982 %
Concentration per Run 3	0.090 ppb	98.198 %	97.587 %	0.113 ppb	0.007 ppb	87.963 %
Concentration RSD	23.1 %	4.6 %	5.7 %	21.9 %	19.0 %	4.4 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 52 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809013-6D5 6020SL Rack: 1
 Analysis started at: 8/9/2023 10:04:10 AM Vial: 23

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.988 %	97.673 %	0.005 ppb	12,094.432 ppb	5,797.415 ppb	0.962 ppb	4,443.651 ppb	7,807.484 ppb	97.065 %
Concentration per Run 1	100.867 %	91.733 %	0.005 ppb	12,041.228 ppb	5,763.044 ppb	1.052 ppb	4,252.977 ppb	7,530.342 ppb	95.873 %
Concentration per Run 2	102.077 %	101.124 %	0.007 ppb	11,989.486 ppb	5,775.488 ppb	0.655 ppb	4,534.783 ppb	7,858.512 ppb	99.571 %
Concentration per Run 3	100.020 %	100.161 %	0.002 ppb	12,252.582 ppb	5,853.714 ppb	1.179 ppb	4,543.192 ppb	8,033.597 ppb	95.752 %
Concentration RSD	1.0 %	5.3 %	56.4 %	1.2 %	0.8 %	28.5 %	3.7 %	3.3 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.034 ppb	0.015 ppb	119.181 ppb	3,228.879 ppb	0.195 ppb	0.529 ppb	0.052 ppb	1.526 ppb	94.115 %
Concentration per Run 1	0.002 ppb	0.008 ppb	117.697 ppb	3,160.191 ppb	0.179 ppb	0.494 ppb	0.062 ppb	1.519 ppb	91.537 %
Concentration per Run 2	0.047 ppb	0.018 ppb	118.106 ppb	3,212.790 ppb	0.189 ppb	0.521 ppb	0.039 ppb	1.526 ppb	94.811 %
Concentration per Run 3	0.053 ppb	0.018 ppb	121.740 ppb	3,313.657 ppb	0.219 ppb	0.572 ppb	0.054 ppb	1.532 ppb	95.999 %
Concentration RSD	82.7 %	38.9 %	1.9 %	2.4 %	10.7 %	7.5 %	22.2 %	0.4 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	17.875 ppb	0.029 ppb	2.935 ppb	6.461 ppb	88.937 %	0.000 ppb	0.002 ppb	91.713 %	0.056 ppb
Concentration per Run 1	17.365 ppb	0.044 ppb	2.922 ppb	6.349 ppb	87.009 %	0.000 ppb	0.002 ppb	89.349 %	0.051 ppb
Concentration per Run 2	18.372 ppb	0.013 ppb	2.918 ppb	6.515 ppb	89.665 %	0.001 ppb	0.003 ppb	92.682 %	0.051 ppb
Concentration per Run 3	17.886 ppb	0.030 ppb	2.966 ppb	6.518 ppb	90.139 %	0.000 ppb	0.001 ppb	93.108 %	0.066 ppb
Concentration RSD	2.8 %	53.3 %	0.9 %	1.5 %	1.9 %	176.0 %	74.6 %	2.2 %	15.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.024 ppb	96.331 %	95.690 %	0.054 ppb	0.003 ppb	91.962 %
Concentration per Run 1	0.012 ppb	94.334 %	93.199 %	0.038 ppb	0.003 ppb	88.977 %
Concentration per Run 2	0.042 ppb	95.425 %	94.122 %	0.062 ppb	0.004 ppb	92.751 %
Concentration per Run 3	0.018 ppb	99.235 %	99.748 %	0.062 ppb	0.003 ppb	94.157 %
Concentration RSD	66.6 %	2.7 %	3.7 %	25.7 %	18.9 %	2.9 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 53 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/9/2023 10:08:40 AM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.860 %	102.087 %	59.361 ppb	6,330.404 ppb	6,328.135 ppb	62.009 ppb	6,285.326 ppb	6,166.944 ppb	101.890 %
Concentration per Run 1	102.363 %	102.809 %	59.565 ppb	6,334.900 ppb	6,346.780 ppb	63.560 ppb	6,262.511 ppb	5,974.617 ppb	101.859 %
Concentration per Run 2	103.478 %	105.698 %	59.594 ppb	6,218.873 ppb	6,218.154 ppb	60.885 ppb	6,368.746 ppb	6,393.518 ppb	101.104 %
Concentration per Run 3	102.739 %	97.753 %	58.924 ppb	6,437.439 ppb	6,419.471 ppb	61.582 ppb	6,224.720 ppb	6,132.698 ppb	102.707 %
Recovery Percentage 1			98.935 %	105.507 %	105.469 %	103.349 %	104.755 %	102.782 %	
Concentration RSD	0.6 %	3.9 %	0.6 %	1.7 %	1.6 %	2.2 %	1.2 %	3.4 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.307 ppb	60.296 ppb	60.739 ppb	6,014.619 ppb	61.599 ppb	61.595 ppb	62.282 ppb	62.611 ppb	95.362 %
Concentration per Run 1	56.911 ppb	58.872 ppb	59.375 ppb	5,922.992 ppb	59.862 ppb	59.148 ppb	60.022 ppb	60.608 ppb	97.604 %
Concentration per Run 2	61.301 ppb	60.648 ppb	61.073 ppb	6,037.689 ppb	62.115 ppb	62.667 ppb	62.210 ppb	63.117 ppb	96.229 %
Concentration per Run 3	59.709 ppb	61.368 ppb	61.768 ppb	6,083.176 ppb	62.818 ppb	62.969 ppb	64.613 ppb	64.109 ppb	92.253 %
Recovery Percentage 1	98.845 %	100.493 %	101.231 %	100.244 %	102.664 %	102.658 %	103.803 %	104.352 %	
Concentration RSD	3.7 %	2.1 %	2.0 %	1.4 %	2.5 %	3.4 %	3.7 %	2.9 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.660 ppb	61.668 ppb	60.248 ppb	59.323 ppb	93.390 %	60.346 ppb	60.032 ppb	93.418 %	59.422 ppb
Concentration per Run 1	57.841 ppb	59.330 ppb	58.421 ppb	57.525 ppb	92.591 %	58.904 ppb	58.658 ppb	92.285 %	58.424 ppb
Concentration per Run 2	62.239 ppb	62.299 ppb	60.969 ppb	58.782 ppb	93.177 %	60.721 ppb	60.780 ppb	93.957 %	59.576 ppb
Concentration per Run 3	61.899 ppb	63.377 ppb	61.352 ppb	61.663 ppb	94.403 %	61.413 ppb	60.660 ppb	94.012 %	60.267 ppb
Recovery Percentage 1	101.100 %	102.781 %	100.413 %	98.872 %		100.577 %	100.054 %		99.037 %
Concentration RSD	4.0 %	3.4 %	2.6 %	3.6 %	1.0 %	2.1 %	2.0 %	1.1 %	1.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.824 ppb	96.980 %	96.012 %	59.725 ppb	61.194 ppb	94.693 %
Concentration per Run 1	58.462 ppb	93.961 %	93.455 %	56.898 ppb	60.050 ppb	92.155 %
Concentration per Run 2	60.288 ppb	98.218 %	96.583 %	60.371 ppb	61.820 ppb	94.568 %
Concentration per Run 3	60.722 ppb	98.761 %	97.998 %	61.906 ppb	61.711 ppb	97.357 %
Recovery Percentage 1	99.707 %			99.542 %	101.990 %	
Concentration RSD	2.0 %	2.7 %	2.4 %	4.3 %	1.6 %	2.7 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 54 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/9/2023 10:13:12 AM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.574 %	102.648 %	0.009 ppb	7.891 ppb	0.393 ppb	0.390 ppb	3.287 ppb	1.652 ppb	102.516 %
Concentration per Run 1	106.655 %	101.605 %	0.009 ppb	7.929 ppb	0.348 ppb	-0.002 ppb	4.424 ppb	-0.622 ppb	102.720 %
Concentration per Run 2	106.766 %	99.920 %	0.012 ppb	9.180 ppb	-0.493 ppb	0.459 ppb	3.546 ppb	2.058 ppb	101.541 %
Concentration per Run 3	106.302 %	106.421 %	0.007 ppb	6.564 ppb	1.323 ppb	0.712 ppb	1.891 ppb	3.518 ppb	103.286 %
Recovery Percentage 1			1.850 %	7.891 %	0.561 %	3.898 %	3.287 %	1.652 %	
Concentration RSD	0.2 %	3.3 %	28.6 %	16.6 %	231.3 %	92.9 %	39.1 %	127.1 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.013 ppb	0.012 ppb	0.042 ppb	14.005 ppb	0.002 ppb	0.070 ppb	0.054 ppb	0.554 ppb	97.763 %
Concentration per Run 1	-0.014 ppb	0.004 ppb	0.083 ppb	15.441 ppb	0.002 ppb	0.076 ppb	0.034 ppb	0.587 ppb	97.014 %
Concentration per Run 2	-0.026 ppb	0.007 ppb	0.017 ppb	13.439 ppb	0.005 ppb	0.075 ppb	0.064 ppb	0.570 ppb	97.782 %
Concentration per Run 3	0.002 ppb	0.025 ppb	0.024 ppb	13.136 ppb	0.000 ppb	0.060 ppb	0.063 ppb	0.505 ppb	98.492 %
Recovery Percentage 1	-0.258 %	1.207 %	4.160 %	28.010 %	0.443 %	3.514 %	5.403 %	11.077 %	
Concentration RSD	110.4 %	92.9 %	86.7 %	8.9 %	114.2 %	13.1 %	31.6 %	7.8 %	0.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.029 ppb	0.060 ppb	0.007 ppb	0.155 ppb	96.921 %	0.005 ppb	0.002 ppb	96.735 %	0.061 ppb
Concentration per Run 1	0.017 ppb	0.074 ppb	0.007 ppb	0.135 ppb	94.816 %	0.004 ppb	0.002 ppb	95.765 %	0.054 ppb
Concentration per Run 2	0.025 ppb	0.077 ppb	0.004 ppb	0.159 ppb	97.037 %	0.004 ppb	0.002 ppb	96.157 %	0.062 ppb
Concentration per Run 3	0.046 ppb	0.030 ppb	0.009 ppb	0.172 ppb	98.910 %	0.005 ppb	0.003 ppb	98.283 %	0.066 ppb
Recovery Percentage 1	5.877 %	1.205 %	0.067 %	7.756 %		1.130 %	1.230 %		1.513 %
Concentration RSD	51.1 %	43.4 %	37.6 %	12.3 %	2.1 %	5.4 %	17.4 %	1.4 %	9.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.022 ppb	98.539 %	97.856 %	0.353 ppb	0.011 ppb	99.426 %
Concentration per Run 1	0.021 ppb	96.113 %	94.625 %	0.348 ppb	0.011 ppb	96.549 %
Concentration per Run 2	0.021 ppb	98.575 %	98.707 %	0.400 ppb	0.011 ppb	98.762 %
Concentration per Run 3	0.024 ppb	100.930 %	100.237 %	0.310 ppb	0.010 ppb	102.966 %
Recovery Percentage 1	4.383 %			35.261 %	1.058 %	
Concentration RSD	6.5 %	2.4 %	3.0 %	12.9 %	2.7 %	3.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 55 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2342975-04 6020SL Rack: 1
 Analysis started at: 8/9/2023 10:18:54 AM Vial: 24

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	112.402 %	106.501 %	0.007 ppb	76,402.603 ppb	16,260.729 ppb	4.172 ppb	55,783.981 ppb	14,903.141 ppb	110.176 %
Concentration per Run 1	112.433 %	101.846 %	0.001 ppb	75,770.258 ppb	15,912.785 ppb	4.150 ppb	54,431.851 ppb	14,604.597 ppb	108.588 %
Concentration per Run 2	112.853 %	108.347 %	0.009 ppb	76,994.347 ppb	16,674.196 ppb	4.314 ppb	57,583.971 ppb	15,330.259 ppb	111.899 %
Concentration per Run 3	111.921 %	109.310 %	0.010 ppb	76,443.203 ppb	16,195.206 ppb	4.053 ppb	55,336.122 ppb	14,774.566 ppb	110.040 %
Concentration RSD	0.4 %	3.8 %	72.3 %	0.8 %	2.4 %	3.2 %	2.9 %	2.5 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.244 ppb	0.503 ppb	791.552 ppb	8,070.175 ppb	2.664 ppb	9.511 ppb	11.207 ppb	117.005 ppb	94.371 %
Concentration per Run 1	0.236 ppb	0.521 ppb	801.015 ppb	8,283.150 ppb	2.682 ppb	9.296 ppb	11.154 ppb	118.583 ppb	85.231 %
Concentration per Run 2	0.234 ppb	0.527 ppb	772.723 ppb	7,748.666 ppb	2.556 ppb	9.485 ppb	10.827 ppb	115.486 ppb	101.508 %
Concentration per Run 3	0.260 ppb	0.462 ppb	800.919 ppb	8,178.708 ppb	2.755 ppb	9.752 ppb	11.639 ppb	116.947 ppb	96.373 %
Concentration RSD	6.0 %	7.2 %	2.1 %	3.5 %	3.8 %	2.4 %	3.6 %	1.3 %	8.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	275.707 ppb	0.268 ppb	3.778 ppb	117.845 ppb	88.804 %	0.001 ppb	0.028 ppb	93.605 %	0.351 ppb
Concentration per Run 1	276.214 ppb	0.264 ppb	3.693 ppb	115.375 ppb	84.784 %	0.002 ppb	0.024 ppb	88.479 %	0.323 ppb
Concentration per Run 2	267.903 ppb	0.223 ppb	3.884 ppb	119.518 ppb	90.515 %	0.000 ppb	0.027 ppb	97.257 %	0.375 ppb
Concentration per Run 3	283.004 ppb	0.317 ppb	3.756 ppb	118.641 ppb	91.114 %	0.001 ppb	0.032 ppb	95.078 %	0.354 ppb
Concentration RSD	2.7 %	17.7 %	2.6 %	1.9 %	3.9 %	88.6 %	13.8 %	4.9 %	7.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.200 ppb	99.722 %	99.832 %	0.112 ppb	0.043 ppb	91.214 %
Concentration per Run 1	0.200 ppb	92.655 %	92.239 %	0.110 ppb	0.044 ppb	85.333 %
Concentration per Run 2	0.200 ppb	102.071 %	103.671 %	0.118 ppb	0.044 ppb	92.647 %
Concentration per Run 3	0.200 ppb	104.440 %	103.586 %	0.108 ppb	0.043 ppb	95.664 %
Concentration RSD	0.1 %	6.3 %	6.6 %	4.5 %	1.3 %	5.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 56 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2342975-06 6020SL Rack: 1
 Analysis started at: 8/9/2023 10:23:24 AM Vial: 25

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	111.316 %	114.767 %	0.005 ppb	139,099.689 ppb	7,725.377 ppb	2.411 ppb	31,653.544 ppb	11,132.730 ppb	110.763 %
Concentration per Run 1	112.379 %	111.958 %	0.006 ppb	133,427.077 ppb	7,393.297 ppb	2.446 ppb	29,860.014 ppb	10,511.927 ppb	113.363 %
Concentration per Run 2	111.214 %	121.589 %	0.003 ppb	139,966.012 ppb	7,845.256 ppb	1.864 ppb	32,997.166 ppb	11,549.952 ppb	108.517 %
Concentration per Run 3	110.354 %	110.755 %	0.005 ppb	143,905.979 ppb	7,937.577 ppb	2.923 ppb	32,103.453 ppb	11,336.311 ppb	110.408 %
Concentration RSD	0.9 %	5.2 %	30.4 %	3.8 %	3.8 %	22.0 %	5.1 %	4.9 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.381 ppb	0.452 ppb	466.621 ppb	3,732.490 ppb	4.328 ppb	16.810 ppb	0.535 ppb	4.719 ppb	99.937 %
Concentration per Run 1	0.304 ppb	0.451 ppb	439.119 ppb	3,553.424 ppb	4.207 ppb	16.389 ppb	0.494 ppb	4.475 ppb	98.956 %
Concentration per Run 2	0.409 ppb	0.411 ppb	489.299 ppb	3,849.824 ppb	4.222 ppb	17.255 ppb	0.599 ppb	4.854 ppb	99.232 %
Concentration per Run 3	0.429 ppb	0.493 ppb	471.445 ppb	3,794.223 ppb	4.555 ppb	16.785 ppb	0.512 ppb	4.828 ppb	101.623 %
Concentration RSD	17.6 %	9.1 %	5.5 %	4.2 %	4.5 %	2.6 %	10.5 %	4.5 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	97.804 ppb	0.407 ppb	143.187 ppb	67.926 ppb	91.385 %	0.001 ppb	0.015 ppb	93.872 %	0.863 ppb
Concentration per Run 1	93.261 ppb	0.344 ppb	135.309 ppb	65.480 ppb	88.323 %	0.002 ppb	0.013 ppb	87.540 %	0.822 ppb
Concentration per Run 2	99.823 ppb	0.463 ppb	152.954 ppb	68.650 ppb	92.549 %	0.001 ppb	0.013 ppb	98.322 %	0.900 ppb
Concentration per Run 3	100.327 ppb	0.413 ppb	141.297 ppb	69.648 ppb	93.285 %	0.001 ppb	0.018 ppb	95.753 %	0.866 ppb
Concentration RSD	4.0 %	14.7 %	6.3 %	3.2 %	2.9 %	53.9 %	19.7 %	6.0 %	4.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.127 ppb	102.940 %	102.679 %	0.062 ppb	0.036 ppb	90.827 %
Concentration per Run 1	0.140 ppb	96.893 %	95.704 %	0.047 ppb	0.039 ppb	85.727 %
Concentration per Run 2	0.101 ppb	105.516 %	107.544 %	0.072 ppb	0.035 ppb	92.756 %
Concentration per Run 3	0.140 ppb	106.412 %	104.790 %	0.067 ppb	0.033 ppb	93.998 %
Concentration RSD	17.7 %	5.1 %	6.0 %	21.0 %	7.2 %	4.9 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 57 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2342975-08 6020SL Rack: 1
 Analysis started at: 8/9/2023 10:27:51 AM Vial: 26

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.837 %	107.624 %	0.008 ppb	53,735.648 ppb	13,217.439 ppb	2.272 ppb	5,156.510 ppb	55,863.639 ppb	105.307 %
Concentration per Run 1	104.158 %	104.735 %	0.018 ppb	52,431.162 ppb	12,921.634 ppb	2.109 ppb	4,909.545 ppb	52,704.642 ppb	106.701 %
Concentration per Run 2	104.550 %	102.568 %	0.005 ppb	56,960.034 ppb	13,876.825 ppb	2.422 ppb	5,480.891 ppb	59,595.567 ppb	106.078 %
Concentration per Run 3	102.802 %	115.570 %	0.002 ppb	51,815.749 ppb	12,853.859 ppb	2.284 ppb	5,079.095 ppb	55,290.707 ppb	103.143 %
Concentration RSD	0.9 %	6.5 %	105.2 %	5.2 %	4.3 %	6.9 %	5.7 %	6.2 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.064 ppb	0.052 ppb	54.585 ppb	17,863.121 ppb	0.109 ppb	0.162 ppb	0.269 ppb	0.726 ppb	101.199 %
Concentration per Run 1	0.079 ppb	0.049 ppb	53.644 ppb	17,478.885 ppb	0.093 ppb	0.151 ppb	0.229 ppb	0.820 ppb	98.086 %
Concentration per Run 2	0.076 ppb	0.040 ppb	55.739 ppb	18,284.667 ppb	0.127 ppb	0.183 ppb	0.285 ppb	0.684 ppb	102.958 %
Concentration per Run 3	0.038 ppb	0.068 ppb	54.372 ppb	17,825.809 ppb	0.106 ppb	0.153 ppb	0.295 ppb	0.673 ppb	102.552 %
Concentration RSD	36.0 %	26.9 %	1.9 %	2.3 %	16.1 %	10.9 %	13.2 %	11.2 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	120.940 ppb	0.092 ppb	367.635 ppb	0.635 ppb	90.783 %	0.001 ppb	0.001 ppb	95.206 %	0.029 ppb
Concentration per Run 1	118.208 ppb	0.061 ppb	350.977 ppb	0.683 ppb	89.542 %	0.001 ppb	0.000 ppb	91.136 %	0.028 ppb
Concentration per Run 2	123.358 ppb	0.139 ppb	378.924 ppb	0.701 ppb	91.087 %	0.000 ppb	0.001 ppb	97.332 %	0.029 ppb
Concentration per Run 3	121.253 ppb	0.074 ppb	373.002 ppb	0.520 ppb	91.719 %	0.001 ppb	0.001 ppb	97.151 %	0.031 ppb
Concentration RSD	2.1 %	45.7 %	4.0 %	15.7 %	1.2 %	80.5 %	114.6 %	3.7 %	6.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	71.178 ppb	98.854 %	98.059 %	0.043 ppb	0.012 ppb	90.426 %
Concentration per Run 1	69.217 ppb	95.063 %	92.903 %	0.029 ppb	0.011 ppb	86.446 %
Concentration per Run 2	72.384 ppb	99.580 %	99.957 %	0.052 ppb	0.012 ppb	90.906 %
Concentration per Run 3	71.932 ppb	101.918 %	101.316 %	0.049 ppb	0.012 ppb	93.926 %
Concentration RSD	2.4 %	3.5 %	4.6 %	29.1 %	6.3 %	4.2 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 58 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343024-01 6020SL Rack: 1
 Analysis started at: 8/9/2023 10:32:18 AM Vial: 27

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.923 %	102.167 %	0.008 ppb	67,658.221 ppb	14,053.128 ppb	3.954 ppb	13,782.960 ppb	32,563.392 ppb	93.177 %
Concentration per Run 1	93.787 %	98.957 %	0.005 ppb	67,479.911 ppb	13,894.194 ppb	3.898 ppb	13,426.850 ppb	31,546.420 ppb	93.821 %
Concentration per Run 2	93.963 %	106.421 %	0.005 ppb	65,121.312 ppb	13,450.729 ppb	3.768 ppb	13,304.333 ppb	31,766.449 ppb	93.960 %
Concentration per Run 3	91.018 %	101.124 %	0.014 ppb	70,373.440 ppb	14,814.462 ppb	4.195 ppb	14,617.697 ppb	34,377.306 ppb	91.752 %
Concentration RSD	1.8 %	3.8 %	66.9 %	3.9 %	4.9 %	5.5 %	5.3 %	4.8 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.150 ppb	0.116 ppb	1,337.120 ppb	41,226.758 ppb	3.903 ppb	0.622 ppb	0.159 ppb	1.051 ppb	96.034 %
Concentration per Run 1	0.091 ppb	0.096 ppb	1,301.391 ppb	40,902.081 ppb	3.865 ppb	0.622 ppb	0.163 ppb	1.029 ppb	95.181 %
Concentration per Run 2	0.169 ppb	0.109 ppb	1,333.868 ppb	41,325.706 ppb	4.026 ppb	0.641 ppb	0.158 ppb	1.060 ppb	92.126 %
Concentration per Run 3	0.190 ppb	0.144 ppb	1,376.102 ppb	41,452.485 ppb	3.819 ppb	0.604 ppb	0.154 ppb	1.064 ppb	100.795 %
Concentration RSD	34.9 %	21.3 %	2.8 %	0.7 %	2.8 %	3.0 %	2.8 %	1.8 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.922 ppb	0.192 ppb	175.708 ppb	0.473 ppb	84.330 %	0.001 ppb	0.002 ppb	89.841 %	0.042 ppb
Concentration per Run 1	3.008 ppb	0.183 ppb	169.578 ppb	0.437 ppb	84.801 %	0.001 ppb	0.005 ppb	86.610 %	0.034 ppb
Concentration per Run 2	3.009 ppb	0.171 ppb	177.423 ppb	0.538 ppb	82.709 %	0.001 ppb	0.000 ppb	88.538 %	0.048 ppb
Concentration per Run 3	2.748 ppb	0.222 ppb	180.123 ppb	0.442 ppb	85.479 %	0.000 ppb	0.001 ppb	94.374 %	0.044 ppb
Concentration RSD	5.1 %	13.8 %	3.1 %	12.0 %	1.7 %	69.1 %	159.8 %	4.5 %	17.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	55.525 ppb	95.002 %	95.665 %	0.036 ppb	0.010 ppb	84.969 %
Concentration per Run 1	53.589 ppb	92.172 %	90.852 %	0.026 ppb	0.009 ppb	82.345 %
Concentration per Run 2	56.171 ppb	94.542 %	95.126 %	0.042 ppb	0.011 ppb	84.641 %
Concentration per Run 3	56.815 ppb	98.292 %	101.015 %	0.039 ppb	0.012 ppb	87.921 %
Concentration RSD	3.1 %	3.2 %	5.3 %	24.1 %	13.4 %	3.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 59 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343024-02 6020SL Rack: 1
 Analysis started at: 8/9/2023 10:36:46 AM Vial: 28

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.718 %	103.772 %	0.011 ppb	8,869.155 ppb	6,624.697 ppb	4.383 ppb	5,608.868 ppb	10,771.811 ppb	94.085 %
Concentration per Run 1	98.266 %	104.735 %	0.014 ppb	8,386.620 ppb	6,261.843 ppb	3.025 ppb	5,331.272 ppb	10,280.635 ppb	93.886 %
Concentration per Run 2	98.216 %	104.976 %	0.010 ppb	8,605.447 ppb	6,379.791 ppb	4.784 ppb	5,400.574 ppb	10,524.170 ppb	95.823 %
Concentration per Run 3	96.672 %	101.605 %	0.009 ppb	9,615.397 ppb	7,232.457 ppb	5.339 ppb	6,094.759 ppb	11,510.627 ppb	92.546 %
Concentration RSD	0.9 %	1.8 %	21.1 %	7.4 %	8.0 %	27.6 %	7.5 %	6.0 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.228 ppb	0.227 ppb	155.815 ppb	4,446.858 ppb	0.015 ppb	0.212 ppb	0.593 ppb	5.182 ppb	93.540 %
Concentration per Run 1	0.219 ppb	0.212 ppb	152.427 ppb	4,365.371 ppb	0.007 ppb	0.223 ppb	0.615 ppb	5.216 ppb	89.260 %
Concentration per Run 2	0.196 ppb	0.243 ppb	147.612 ppb	4,305.344 ppb	0.020 ppb	0.189 ppb	0.571 ppb	4.974 ppb	94.955 %
Concentration per Run 3	0.269 ppb	0.226 ppb	167.404 ppb	4,669.860 ppb	0.018 ppb	0.224 ppb	0.593 ppb	5.357 ppb	96.406 %
Concentration RSD	16.3 %	7.0 %	6.6 %	4.4 %	46.3 %	9.5 %	3.7 %	3.7 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.117 ppb	0.074 ppb	72.521 ppb	0.254 ppb	86.261 %	0.001 ppb	0.001 ppb	89.370 %	0.026 ppb
Concentration per Run 1	0.127 ppb	0.103 ppb	69.560 ppb	0.218 ppb	83.971 %	0.000 ppb	0.001 ppb	85.190 %	0.026 ppb
Concentration per Run 2	0.092 ppb	0.060 ppb	70.285 ppb	0.282 ppb	85.284 %	0.001 ppb	0.002 ppb	88.597 %	0.027 ppb
Concentration per Run 3	0.132 ppb	0.060 ppb	77.718 ppb	0.263 ppb	89.527 %	0.001 ppb	0.001 ppb	94.324 %	0.025 ppb
Concentration RSD	19.0 %	33.1 %	6.2 %	13.1 %	3.4 %	104.7 %	57.1 %	5.2 %	3.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.543 ppb	94.301 %	94.243 %	0.030 ppb	0.027 ppb	90.120 %
Concentration per Run 1	58.021 ppb	90.501 %	89.918 %	0.023 ppb	0.028 ppb	86.298 %
Concentration per Run 2	57.419 ppb	92.676 %	90.845 %	0.035 ppb	0.025 ppb	89.340 %
Concentration per Run 3	60.188 ppb	99.726 %	101.965 %	0.033 ppb	0.027 ppb	94.722 %
Concentration RSD	2.5 %	5.1 %	7.1 %	21.0 %	7.1 %	4.7 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 60 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343024-03 6020SL Rack: 1
 Analysis started at: 8/9/2023 10:41:14 AM Vial: 29

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.197 %	107.544 %	0.026 ppb	53,138.933 ppb	54.327 ppb	1,233.565 ppb	66,293.331 ppb	4,186.072 ppb	103.741 %
Concentration per Run 1	106.771 %	108.347 %	0.024 ppb	49,652.297 ppb	51.557 ppb	1,123.720 ppb	60,978.590 ppb	3,893.864 ppb	104.967 %
Concentration per Run 2	106.133 %	100.401 %	0.033 ppb	55,513.510 ppb	57.265 ppb	1,279.385 ppb	68,116.469 ppb	4,405.155 ppb	103.212 %
Concentration per Run 3	105.687 %	113.885 %	0.022 ppb	54,250.993 ppb	54.158 ppb	1,297.590 ppb	69,784.935 ppb	4,259.197 ppb	103.044 %
Concentration RSD	0.5 %	6.3 %	23.7 %	5.8 %	5.3 %	7.7 %	7.1 %	6.3 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	5.563 ppb	0.572 ppb	1.824 ppb	116.956 ppb	0.440 ppb	4.878 ppb	5.273 ppb	0.878 ppb	103.589 %
Concentration per Run 1	5.164 ppb	0.544 ppb	1.594 ppb	114.032 ppb	0.461 ppb	4.591 ppb	5.239 ppb	0.825 ppb	98.333 %
Concentration per Run 2	5.787 ppb	0.605 ppb	1.821 ppb	119.253 ppb	0.444 ppb	5.153 ppb	5.219 ppb	0.891 ppb	101.779 %
Concentration per Run 3	5.738 ppb	0.569 ppb	2.056 ppb	117.581 ppb	0.416 ppb	4.891 ppb	5.361 ppb	0.917 ppb	110.656 %
Concentration RSD	6.2 %	5.4 %	12.7 %	2.3 %	5.2 %	5.8 %	1.5 %	5.4 %	6.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.203 ppb	0.389 ppb	46.871 ppb	12.663 ppb	86.815 %	0.000 ppb	0.002 ppb	91.151 %	1.327 ppb
Concentration per Run 1	9.923 ppb	0.361 ppb	44.712 ppb	12.185 ppb	83.251 %	0.001 ppb	0.002 ppb	83.952 %	1.298 ppb
Concentration per Run 2	10.308 ppb	0.423 ppb	46.719 ppb	12.637 ppb	85.536 %	0.000 ppb	0.002 ppb	89.887 %	1.340 ppb
Concentration per Run 3	10.378 ppb	0.384 ppb	49.182 ppb	13.166 ppb	91.659 %	0.000 ppb	0.003 ppb	99.615 %	1.344 ppb
Concentration RSD	2.4 %	8.0 %	4.8 %	3.9 %	5.0 %	133.0 %	40.3 %	8.7 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	6.647 ppb	97.360 %	97.630 %	0.027 ppb	0.063 ppb	88.418 %
Concentration per Run 1	6.589 ppb	90.609 %	91.095 %	0.018 ppb	0.063 ppb	84.005 %
Concentration per Run 2	6.668 ppb	97.129 %	95.622 %	0.029 ppb	0.063 ppb	87.148 %
Concentration per Run 3	6.685 ppb	104.341 %	106.174 %	0.034 ppb	0.064 ppb	94.102 %
Concentration RSD	0.8 %	7.1 %	7.9 %	29.7 %	0.9 %	5.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 61 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343024-04 6020SL Rack: 1
 Analysis started at: 8/9/2023 10:45:43 AM Vial: 30

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.145 %	103.772 %	0.007 ppb	34,930.603 ppb	7,573.603 ppb	4.502 ppb	13,613.760 ppb	41,274.531 ppb	104.477 %
Concentration per Run 1	103.613 %	105.939 %	0.005 ppb	33,158.629 ppb	7,089.544 ppb	5.083 ppb	12,820.762 ppb	38,808.664 ppb	106.410 %
Concentration per Run 2	103.846 %	97.030 %	0.011 ppb	36,264.530 ppb	7,894.894 ppb	3.927 ppb	13,820.334 ppb	41,895.007 ppb	103.730 %
Concentration per Run 3	101.975 %	108.347 %	0.005 ppb	35,368.650 ppb	7,736.371 ppb	4.496 ppb	14,200.183 ppb	43,119.922 ppb	103.290 %
Concentration RSD	1.0 %	5.7 %	52.1 %	4.6 %	5.6 %	12.8 %	5.2 %	5.4 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.153 ppb	0.172 ppb	1,222.198 ppb	25,835.408 ppb	0.989 ppb	0.241 ppb	0.151 ppb	0.412 ppb	102.901 %
Concentration per Run 1	0.168 ppb	0.164 ppb	1,179.130 ppb	24,894.939 ppb	0.969 ppb	0.194 ppb	0.124 ppb	0.449 ppb	97.322 %
Concentration per Run 2	0.179 ppb	0.173 ppb	1,251.131 ppb	26,784.111 ppb	0.974 ppb	0.265 ppb	0.172 ppb	0.367 ppb	101.990 %
Concentration per Run 3	0.112 ppb	0.177 ppb	1,236.332 ppb	25,827.173 ppb	1.023 ppb	0.264 ppb	0.155 ppb	0.422 ppb	109.391 %
Concentration RSD	23.7 %	4.1 %	3.1 %	3.7 %	3.0 %	16.9 %	16.0 %	10.2 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.538 ppb	0.206 ppb	229.995 ppb	0.273 ppb	90.578 %	0.001 ppb	0.000 ppb	94.377 %	0.064 ppb
Concentration per Run 1	1.499 ppb	0.163 ppb	223.871 ppb	0.250 ppb	88.261 %	0.001 ppb	0.001 ppb	88.988 %	0.056 ppb
Concentration per Run 2	1.611 ppb	0.190 ppb	228.623 ppb	0.299 ppb	89.169 %	0.001 ppb	0.000 ppb	93.036 %	0.071 ppb
Concentration per Run 3	1.504 ppb	0.266 ppb	237.492 ppb	0.270 ppb	94.305 %	0.001 ppb	0.001 ppb	101.107 %	0.065 ppb
Concentration RSD	4.1 %	25.9 %	3.0 %	8.8 %	3.6 %	23.5 %	167.2 %	6.5 %	11.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	86.390 ppb	98.533 %	98.357 %	0.023 ppb	0.010 ppb	90.795 %
Concentration per Run 1	84.424 ppb	94.199 %	91.877 %	0.015 ppb	0.011 ppb	85.695 %
Concentration per Run 2	85.628 ppb	97.752 %	97.203 %	0.027 ppb	0.009 ppb	90.683 %
Concentration per Run 3	89.119 ppb	103.649 %	105.990 %	0.026 ppb	0.010 ppb	96.008 %
Concentration RSD	2.8 %	4.8 %	7.2 %	27.7 %	9.8 %	5.7 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 62 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343182-01 6020SL Rack: 1
 Analysis started at: 8/9/2023 10:50:11 AM Vial: 31

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.929 %	108.106 %	0.006 ppb	65,201.854 ppb	28,710.210 ppb	2.664 ppb	3,585.308 ppb	123,254.991 ppb	105.687 %
Concentration per Run 1	106.719 %	110.514 %	0.006 ppb	60,505.078 ppb	26,480.089 ppb	1.675 ppb	3,334.205 ppb	114,180.235 ppb	108.311 %
Concentration per Run 2	104.031 %	105.458 %	0.004 ppb	66,684.899 ppb	29,450.153 ppb	3.327 ppb	3,539.593 ppb	122,855.989 ppb	103.368 %
Concentration per Run 3	104.038 %	108.347 %	0.009 ppb	68,415.584 ppb	30,200.389 ppb	2.989 ppb	3,882.125 ppb	132,728.748 ppb	105.381 %
Concentration RSD	1.5 %	2.3 %	44.0 %	6.4 %	6.9 %	32.8 %	7.7 %	7.5 %	2.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.068 ppb	0.153 ppb	1,770.877 ppb	600.660 ppb	0.479 ppb	21.007 ppb	0.671 ppb	72.437 ppb	96.085 %
Concentration per Run 1	0.045 ppb	0.142 ppb	1,661.423 ppb	568.649 ppb	0.453 ppb	20.561 ppb	0.572 ppb	70.716 ppb	93.126 %
Concentration per Run 2	0.106 ppb	0.154 ppb	1,826.116 ppb	606.104 ppb	0.465 ppb	22.116 ppb	0.756 ppb	73.730 ppb	94.260 %
Concentration per Run 3	0.052 ppb	0.163 ppb	1,825.091 ppb	627.228 ppb	0.520 ppb	20.345 ppb	0.685 ppb	72.863 ppb	100.870 %
Concentration RSD	49.4 %	6.7 %	5.4 %	4.9 %	7.4 %	4.6 %	13.8 %	2.1 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.415 ppb	0.083 ppb	424.947 ppb	3.587 ppb	87.624 %	0.000 ppb	0.004 ppb	92.837 %	3.243 ppb
Concentration per Run 1	1.346 ppb	0.077 ppb	407.330 ppb	3.526 ppb	85.642 %	0.001 ppb	0.002 ppb	89.387 %	3.127 ppb
Concentration per Run 2	1.470 ppb	0.064 ppb	423.005 ppb	3.601 ppb	87.592 %	0.000 ppb	0.003 ppb	91.338 %	3.267 ppb
Concentration per Run 3	1.430 ppb	0.107 ppb	444.507 ppb	3.633 ppb	89.636 %	0.001 ppb	0.006 ppb	97.787 %	3.334 ppb
Concentration RSD	4.4 %	27.0 %	4.4 %	1.5 %	2.3 %	198.8 %	43.4 %	4.7 %	3.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	107.518 ppb	98.716 %	98.963 %	0.028 ppb	0.039 ppb	85.095 %
Concentration per Run 1	105.318 ppb	94.988 %	92.985 %	0.022 ppb	0.038 ppb	80.598 %
Concentration per Run 2	108.105 ppb	98.433 %	99.075 %	0.027 ppb	0.039 ppb	85.448 %
Concentration per Run 3	109.131 ppb	102.727 %	104.829 %	0.034 ppb	0.041 ppb	89.239 %
Concentration RSD	1.8 %	3.9 %	6.0 %	22.5 %	3.6 %	5.1 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 63 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343182-02 6020SL Rack: 1
 Analysis started at: 8/9/2023 10:54:40 AM Vial: 32

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.421 %	106.260 %	0.011 ppb	205,468.151 ppb	30,546.576 ppb	5.640 ppb	2,498.115 ppb	134,654.325 ppb	98.484 %
Concentration per Run 1	100.687 %	100.642 %	0.006 ppb	205,369.223 ppb	30,496.727 ppb	4.876 ppb	2,446.043 ppb	132,251.672 ppb	99.186 %
Concentration per Run 2	100.621 %	108.106 %	0.013 ppb	202,098.474 ppb	30,004.356 ppb	6.415 ppb	2,413.048 ppb	132,054.168 ppb	101.077 %
Concentration per Run 3	96.953 %	110.032 %	0.013 ppb	208,936.755 ppb	31,138.645 ppb	5.628 ppb	2,635.255 ppb	139,657.136 ppb	95.189 %
Concentration RSD	2.1 %	4.7 %	35.2 %	1.7 %	1.9 %	13.6 %	4.8 %	3.2 %	3.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.380 ppb	0.517 ppb	3,157.156 ppb	640.326 ppb	11.799 ppb	664.591 ppb	11.989 ppb	159.169 ppb	89.616 %
Concentration per Run 1	0.366 ppb	0.552 ppb	3,137.695 ppb	632.593 ppb	11.827 ppb	662.513 ppb	11.659 ppb	155.932 ppb	88.213 %
Concentration per Run 2	0.404 ppb	0.494 ppb	3,084.117 ppb	630.230 ppb	11.736 ppb	665.076 ppb	12.166 ppb	161.304 ppb	88.427 %
Concentration per Run 3	0.371 ppb	0.504 ppb	3,249.656 ppb	658.155 ppb	11.834 ppb	666.182 ppb	12.143 ppb	160.271 ppb	92.210 %
Concentration RSD	5.4 %	6.0 %	2.7 %	2.4 %	0.5 %	0.3 %	2.4 %	1.8 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.153 ppb	0.197 ppb	610.100 ppb	8.014 ppb	81.934 %	0.004 ppb	0.129 ppb	87.895 %	0.877 ppb
Concentration per Run 1	1.093 ppb	0.119 ppb	584.165 ppb	7.657 ppb	80.328 %	0.004 ppb	0.129 ppb	85.687 %	0.862 ppb
Concentration per Run 2	1.100 ppb	0.253 ppb	606.561 ppb	8.471 ppb	82.717 %	0.003 ppb	0.134 ppb	85.994 %	0.912 ppb
Concentration per Run 3	1.266 ppb	0.220 ppb	639.573 ppb	7.916 ppb	82.756 %	0.004 ppb	0.124 ppb	92.003 %	0.859 ppb
Concentration RSD	8.5 %	35.5 %	4.6 %	5.2 %	1.7 %	16.9 %	3.7 %	4.1 %	3.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	332.958 ppb	92.597 %	93.300 %	0.022 ppb	0.181 ppb	78.224 %
Concentration per Run 1	320.779 ppb	88.642 %	88.052 %	0.013 ppb	0.181 ppb	73.981 %
Concentration per Run 2	336.779 ppb	92.542 %	91.693 %	0.029 ppb	0.180 ppb	78.452 %
Concentration per Run 3	341.316 ppb	96.606 %	100.156 %	0.024 ppb	0.183 ppb	82.239 %
Concentration RSD	3.2 %	4.3 %	6.7 %	37.9 %	0.8 %	5.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 64 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343182-03 6020SL Rack: 1
 Analysis started at: 8/9/2023 10:59:09 AM Vial: 33

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.469 %	100.080 %	0.017 ppb	87,415.465 ppb	42,339.524 ppb	23.981 ppb	3,605.930 ppb	149,151.528 ppb	102.672 %
Concentration per Run 1	102.592 %	100.160 %	0.017 ppb	84,297.837 ppb	40,615.621 ppb	21.121 ppb	3,518.592 ppb	144,115.266 ppb	103.677 %
Concentration per Run 2	102.402 %	100.160 %	0.015 ppb	89,004.930 ppb	42,760.530 ppb	25.521 ppb	3,658.612 ppb	152,294.158 ppb	103.221 %
Concentration per Run 3	99.414 %	99.920 %	0.020 ppb	88,943.628 ppb	43,642.421 ppb	25.302 ppb	3,640.584 ppb	151,045.159 ppb	101.117 %
Concentration RSD	1.8 %	0.1 %	14.8 %	3.1 %	3.7 %	10.3 %	2.1 %	3.0 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.759 ppb	0.370 ppb	1,266.182 ppb	11.736 ppb	0.250 ppb	69.759 ppb	11.958 ppb	3.724 ppb	92.669 %
Concentration per Run 1	0.763 ppb	0.338 ppb	1,231.038 ppb	10.770 ppb	0.254 ppb	68.590 ppb	11.680 ppb	3.582 ppb	91.723 %
Concentration per Run 2	0.768 ppb	0.413 ppb	1,296.289 ppb	12.022 ppb	0.264 ppb	71.205 ppb	12.280 ppb	3.770 ppb	91.941 %
Concentration per Run 3	0.748 ppb	0.360 ppb	1,271.219 ppb	12.415 ppb	0.232 ppb	69.484 ppb	11.913 ppb	3.821 ppb	94.343 %
Concentration RSD	1.3 %	10.3 %	2.6 %	7.3 %	6.6 %	1.9 %	2.5 %	3.4 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.392 ppb	0.402 ppb	610.101 ppb	3.615 ppb	85.200 %	0.001 ppb	0.244 ppb	88.308 %	0.485 ppb
Concentration per Run 1	0.364 ppb	0.312 ppb	593.354 ppb	3.391 ppb	84.011 %	0.002 ppb	0.225 ppb	85.781 %	0.470 ppb
Concentration per Run 2	0.391 ppb	0.469 ppb	622.018 ppb	3.736 ppb	85.184 %	0.001 ppb	0.245 ppb	88.911 %	0.486 ppb
Concentration per Run 3	0.422 ppb	0.425 ppb	614.932 ppb	3.717 ppb	86.406 %	0.002 ppb	0.261 ppb	90.232 %	0.498 ppb
Concentration RSD	7.4 %	20.0 %	2.4 %	5.4 %	1.4 %	38.4 %	7.4 %	2.6 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	195.838 ppb	93.706 %	93.009 %	0.023 ppb	0.079 ppb	80.324 %
Concentration per Run 1	191.149 ppb	89.426 %	87.568 %	0.017 ppb	0.077 ppb	76.586 %
Concentration per Run 2	198.005 ppb	95.044 %	95.379 %	0.028 ppb	0.082 ppb	80.531 %
Concentration per Run 3	198.361 ppb	96.647 %	96.081 %	0.025 ppb	0.079 ppb	83.855 %
Concentration RSD	2.1 %	4.0 %	5.1 %	24.1 %	2.9 %	4.5 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 65 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/9/2023 11:03:39 AM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.328 %	104.575 %	60.506 ppb	6,173.695 ppb	6,238.325 ppb	60.391 ppb	6,135.030 ppb	6,051.144 ppb	94.220 %
Concentration per Run 1	95.990 %	104.735 %	60.461 ppb	6,108.461 ppb	6,211.308 ppb	58.517 ppb	6,091.089 ppb	5,929.458 ppb	94.448 %
Concentration per Run 2	95.076 %	110.032 %	59.625 ppb	5,855.822 ppb	5,939.666 ppb	56.581 ppb	5,929.202 ppb	5,868.611 ppb	95.589 %
Concentration per Run 3	94.919 %	98.957 %	61.431 ppb	6,556.802 ppb	6,564.001 ppb	66.075 ppb	6,384.798 ppb	6,355.364 ppb	92.624 %
Recovery Percentage 1			100.843 %	102.895 %	103.972 %	100.652 %	102.250 %	100.852 %	
Concentration RSD	0.6 %	5.3 %	1.5 %	5.8 %	5.0 %	8.3 %	3.8 %	4.4 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.974 ppb	59.569 ppb	60.478 ppb	5,985.494 ppb	60.383 ppb	60.298 ppb	61.585 ppb	62.675 ppb	89.515 %
Concentration per Run 1	58.871 ppb	58.690 ppb	60.889 ppb	5,876.228 ppb	60.119 ppb	59.073 ppb	61.448 ppb	62.239 ppb	87.431 %
Concentration per Run 2	55.765 ppb	57.426 ppb	58.657 ppb	5,826.213 ppb	58.107 ppb	59.459 ppb	60.432 ppb	61.613 ppb	91.891 %
Concentration per Run 3	62.285 ppb	62.589 ppb	61.887 ppb	6,254.041 ppb	62.923 ppb	62.360 ppb	62.876 ppb	64.174 ppb	89.222 %
Recovery Percentage 1	98.289 %	99.281 %	100.796 %	99.758 %	100.638 %	100.496 %	102.642 %	104.459 %	
Concentration RSD	5.5 %	4.5 %	2.7 %	3.9 %	4.0 %	3.0 %	2.0 %	2.1 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.548 ppb	61.627 ppb	60.785 ppb	59.539 ppb	87.322 %	60.102 ppb	60.266 ppb	87.836 %	59.610 ppb
Concentration per Run 1	60.719 ppb	60.286 ppb	60.367 ppb	58.928 ppb	85.692 %	59.553 ppb	59.336 ppb	86.402 %	58.862 ppb
Concentration per Run 2	60.556 ppb	60.992 ppb	59.872 ppb	60.008 ppb	87.605 %	60.558 ppb	60.932 ppb	86.904 %	59.824 ppb
Concentration per Run 3	63.367 ppb	63.605 ppb	62.116 ppb	59.682 ppb	88.668 %	60.193 ppb	60.530 ppb	90.202 %	60.143 ppb
Recovery Percentage 1	102.579 %	102.712 %	101.309 %	99.232 %		100.169 %	100.443 %		99.349 %
Concentration RSD	2.6 %	2.8 %	1.9 %	0.9 %	1.7 %	0.8 %	1.4 %	2.4 %	1.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.998 ppb	91.698 %	91.226 %	59.944 ppb	61.163 ppb	88.881 %
Concentration per Run 1	58.621 ppb	89.345 %	88.515 %	57.441 ppb	59.964 ppb	85.268 %
Concentration per Run 2	61.204 ppb	90.989 %	90.221 %	60.501 ppb	61.661 ppb	89.797 %
Concentration per Run 3	60.169 ppb	94.759 %	94.943 %	61.890 ppb	61.864 ppb	91.579 %
Recovery Percentage 1	99.997 %			99.907 %	101.939 %	
Concentration RSD	2.2 %	3.0 %	3.7 %	3.8 %	1.7 %	3.7 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 66 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/9/2023 11:08:11 AM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.984 %	102.488 %	0.004 ppb	9.225 ppb	0.993 ppb	0.686 ppb	6.384 ppb	4.253 ppb	94.334 %
Concentration per Run 1	98.289 %	100.642 %	0.001 ppb	10.873 ppb	0.164 ppb	1.154 ppb	4.751 ppb	6.896 ppb	93.759 %
Concentration per Run 2	99.188 %	104.013 %	0.002 ppb	8.899 ppb	0.556 ppb	0.513 ppb	5.589 ppb	1.145 ppb	94.838 %
Concentration per Run 3	99.476 %	102.809 %	0.009 ppb	7.905 ppb	2.258 ppb	0.391 ppb	8.812 ppb	4.718 ppb	94.406 %
Recovery Percentage 1			0.775 %	9.225 %	1.418 %	6.862 %	6.384 %	4.253 %	
Concentration RSD	0.6 %	1.7 %	110.2 %	16.4 %	112.2 %	59.7 %	33.6 %	68.3 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.011 ppb	0.018 ppb	0.115 ppb	14.695 ppb	0.004 ppb	0.105 ppb	0.056 ppb	0.519 ppb	90.535 %
Concentration per Run 1	-0.012 ppb	0.019 ppb	0.135 ppb	14.509 ppb	0.007 ppb	0.091 ppb	0.051 ppb	0.451 ppb	88.318 %
Concentration per Run 2	-0.025 ppb	0.019 ppb	0.147 ppb	16.077 ppb	-0.002 ppb	0.116 ppb	0.073 ppb	0.553 ppb	91.245 %
Concentration per Run 3	0.005 ppb	0.016 ppb	0.062 ppb	13.500 ppb	0.005 ppb	0.109 ppb	0.044 ppb	0.552 ppb	92.042 %
Recovery Percentage 1	-0.212 %	1.790 %	11.450 %	29.391 %	0.726 %	5.269 %	5.585 %	10.375 %	
Concentration RSD	146.1 %	11.3 %	40.4 %	8.8 %	128.4 %	12.2 %	26.6 %	11.4 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.035 ppb	0.048 ppb	0.019 ppb	0.149 ppb	90.868 %	0.007 ppb	0.004 ppb	90.408 %	0.058 ppb
Concentration per Run 1	0.039 ppb	0.043 ppb	0.018 ppb	0.134 ppb	88.214 %	0.008 ppb	0.007 ppb	88.481 %	0.049 ppb
Concentration per Run 2	0.038 ppb	0.068 ppb	0.018 ppb	0.175 ppb	91.597 %	0.008 ppb	0.002 ppb	90.959 %	0.068 ppb
Concentration per Run 3	0.028 ppb	0.031 ppb	0.020 ppb	0.139 ppb	92.794 %	0.005 ppb	0.002 ppb	91.785 %	0.057 ppb
Recovery Percentage 1	6.970 %	0.950 %	0.185 %	7.452 %		1.646 %	1.930 %		1.452 %
Concentration RSD	18.0 %	40.0 %	6.7 %	14.9 %	2.6 %	26.6 %	68.7 %	1.9 %	16.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.026 ppb	93.080 %	92.406 %	0.324 ppb	0.011 ppb	94.362 %
Concentration per Run 1	0.041 ppb	90.317 %	90.053 %	0.331 ppb	0.011 ppb	89.817 %
Concentration per Run 2	0.026 ppb	92.846 %	91.326 %	0.362 ppb	0.012 ppb	95.137 %
Concentration per Run 3	0.012 ppb	96.075 %	95.837 %	0.278 ppb	0.009 ppb	98.131 %
Recovery Percentage 1	5.251 %			32.356 %	1.080 %	
Concentration RSD	56.2 %	3.1 %	3.3 %	13.2 %	10.6 %	4.5 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 67 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: WG1813615-1D10 6020TS Rack 1
 Analysis started at: 8/9/2023 11:14:02 AM Vial 42

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.711 %	105.779 %	0.007 ppb	49.526 ppb	2.738 ppb	6.494 ppb	4.532 ppb	5.941 ppb	96.898 %
Concentration per Run 1	100.742 %	104.494 %	0.001 ppb	50.435 ppb	3.270 ppb	5.431 ppb	4.244 ppb	5.529 ppb	96.626 %
Concentration per Run 2	101.026 %	104.976 %	0.009 ppb	50.244 ppb	3.233 ppb	7.142 ppb	6.881 ppb	4.570 ppb	97.800 %
Concentration per Run 3	100.367 %	107.865 %	0.011 ppb	47.899 ppb	1.710 ppb	6.911 ppb	2.469 ppb	7.723 ppb	96.268 %
Concentration RSD	0.3 %	1.7 %	79.0 %	2.9 %	32.5 %	14.3 %	49.0 %	27.2 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.018 ppb	0.029 ppb	0.183 ppb	9.631 ppb	0.003 ppb	0.098 ppb	0.031 ppb	0.663 ppb	94.473 %
Concentration per Run 1	-0.026 ppb	0.021 ppb	0.163 ppb	8.111 ppb	0.004 ppb	0.083 ppb	0.036 ppb	0.625 ppb	91.854 %
Concentration per Run 2	0.010 ppb	0.030 ppb	0.259 ppb	10.727 ppb	0.005 ppb	0.098 ppb	0.020 ppb	0.671 ppb	94.072 %
Concentration per Run 3	-0.039 ppb	0.037 ppb	0.129 ppb	10.054 ppb	0.000 ppb	0.115 ppb	0.038 ppb	0.694 ppb	97.492 %
Concentration RSD	139.8 %	27.6 %	36.7 %	14.1 %	90.8 %	16.0 %	31.7 %	5.2 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.025 ppb	0.010 ppb	0.018 ppb	0.034 ppb	93.631 %	0.003 ppb	0.000 ppb	94.063 %	0.008 ppb
Concentration per Run 1	0.025 ppb	-0.007 ppb	0.023 ppb	0.035 ppb	91.511 %	0.003 ppb	0.001 ppb	91.778 %	0.010 ppb
Concentration per Run 2	0.027 ppb	0.026 ppb	0.016 ppb	0.034 ppb	94.869 %	0.002 ppb	0.000 ppb	96.777 %	0.007 ppb
Concentration per Run 3	0.023 ppb	0.011 ppb	0.015 ppb	0.034 ppb	94.514 %	0.002 ppb	0.001 ppb	93.635 %	0.006 ppb
Concentration RSD	8.6 %	162.2 %	22.6 %	2.2 %	2.0 %	9.1 %	165.3 %	2.7 %	22.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.068 ppb	95.884 %	95.228 %	0.086 ppb	0.013 ppb	96.356 %
Concentration per Run 1	0.068 ppb	92.161 %	90.756 %	0.090 ppb	0.013 ppb	92.637 %
Concentration per Run 2	0.077 ppb	97.886 %	98.056 %	0.087 ppb	0.014 ppb	97.810 %
Concentration per Run 3	0.058 ppb	97.606 %	96.872 %	0.082 ppb	0.013 ppb	98.622 %
Concentration RSD	13.8 %	3.4 %	4.1 %	5.1 %	3.3 %	3.4 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 68 User name ALPHALAB\al2-icpmsq2 Comment <Comment>
 Analysis label: WG1813615-2D10 6020TS Rack 1
 Analysis started at: 8/9/2023 11:18:30 AM Vial 43

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.422 %	94.542 %	60.865 ppb	1,473.489 ppb	1,961.624 ppb	5,822.385 ppb	1,599.498 ppb	3,937.654 ppb	98.368 %
Concentration per Run 1	97.243 %	95.827 %	61.417 ppb	1,413.115 ppb	1,853.886 ppb	5,411.024 ppb	1,485.743 ppb	3,682.453 ppb	97.569 %
Concentration per Run 2	97.409 %	97.030 %	59.595 ppb	1,424.174 ppb	1,874.267 ppb	5,454.744 ppb	1,515.233 ppb	3,817.261 ppb	99.714 %
Concentration per Run 3	94.615 %	90.770 %	61.583 ppb	1,583.179 ppb	2,156.719 ppb	6,601.386 ppb	1,797.517 ppb	4,313.248 ppb	97.821 %
Concentration RSD	1.6 %	3.5 %	1.8 %	6.5 %	8.6 %	11.6 %	10.8 %	8.4 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	162.096 ppb	160.220 ppb	312.263 ppb	12,414.929 ppb	76.648 ppb	136.374 ppb	109.454 ppb	188.816 ppb	94.783 %
Concentration per Run 1	154.616 ppb	151.841 ppb	296.856 ppb	11,995.658 ppb	73.311 ppb	132.794 ppb	106.085 ppb	183.611 ppb	93.585 %
Concentration per Run 2	158.501 ppb	160.285 ppb	310.446 ppb	12,288.181 ppb	77.207 ppb	135.503 ppb	110.573 ppb	191.403 ppb	92.325 %
Concentration per Run 3	173.171 ppb	168.535 ppb	329.489 ppb	12,960.947 ppb	79.427 ppb	140.824 ppb	111.705 ppb	191.434 ppb	98.439 %
Concentration RSD	6.0 %	5.2 %	5.2 %	4.0 %	4.0 %	3.0 %	2.7 %	2.4 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	151.075 ppb	180.730 ppb	90.622 ppb	149.281 ppb	89.130 %	57.265 ppb	173.772 ppb	91.924 %	165.687 ppb
Concentration per Run 1	146.610 ppb	172.789 ppb	86.276 ppb	143.954 ppb	88.198 %	56.199 ppb	171.217 ppb	89.528 %	161.033 ppb
Concentration per Run 2	153.221 ppb	179.019 ppb	90.468 ppb	151.614 ppb	88.465 %	57.912 ppb	176.506 ppb	90.805 %	165.406 ppb
Concentration per Run 3	153.393 ppb	190.381 ppb	95.122 ppb	152.273 ppb	90.728 %	57.685 ppb	173.592 ppb	95.437 %	170.621 ppb
Concentration RSD	2.6 %	4.9 %	4.9 %	3.1 %	1.6 %	1.6 %	1.5 %	3.4 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	234.627 ppb	92.956 %	91.837 %	66.876 ppb	236.063 ppb	93.323 %
Concentration per Run 1	226.722 ppb	89.258 %	87.034 %	62.698 ppb	233.579 ppb	89.885 %
Concentration per Run 2	236.066 ppb	93.102 %	91.615 %	64.534 ppb	235.565 ppb	94.154 %
Concentration per Run 3	241.091 ppb	96.508 %	96.863 %	73.395 ppb	239.044 ppb	95.929 %
Concentration RSD	3.1 %	3.9 %	5.4 %	8.6 %	1.2 %	3.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 69 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343182-04 6020SL Rack: 1
 Analysis started at: 8/9/2023 11:22:59 AM Vial: 34

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.245 %	96.549 %	0.008 ppb	23,460.305 ppb	9,191.458 ppb	9.457 ppb	3,592.494 ppb	40,708.897 ppb	99.020 %
Concentration per Run 1	100.370 %	94.141 %	0.006 ppb	21,615.683 ppb	8,753.524 ppb	7.921 ppb	3,387.540 ppb	38,358.527 ppb	97.939 %
Concentration per Run 2	100.347 %	92.456 %	0.016 ppb	24,715.095 ppb	9,478.673 ppb	10.128 ppb	3,687.045 ppb	41,760.722 ppb	101.242 %
Concentration per Run 3	100.020 %	103.050 %	0.001 ppb	24,050.136 ppb	9,342.177 ppb	10.322 ppb	3,702.898 ppb	42,007.441 ppb	97.878 %
Concentration RSD	0.2 %	5.9 %	100.9 %	7.0 %	4.2 %	14.1 %	4.9 %	5.0 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.654 ppb	0.173 ppb	33.291 ppb	92.065 ppb	0.081 ppb	1.593 ppb	0.894 ppb	1.618 ppb	91.853 %
Concentration per Run 1	0.674 ppb	0.184 ppb	31.645 ppb	89.977 ppb	0.076 ppb	1.531 ppb	0.884 ppb	1.506 ppb	86.419 %
Concentration per Run 2	0.615 ppb	0.183 ppb	32.922 ppb	93.223 ppb	0.096 ppb	1.587 ppb	0.895 ppb	1.718 ppb	91.187 %
Concentration per Run 3	0.673 ppb	0.151 ppb	35.307 ppb	92.994 ppb	0.072 ppb	1.662 ppb	0.903 ppb	1.630 ppb	97.953 %
Concentration RSD	5.2 %	10.9 %	5.6 %	2.0 %	15.8 %	4.1 %	1.1 %	6.6 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.117 ppb	0.252 ppb	443.698 ppb	4.760 ppb	86.854 %	0.006 ppb	0.007 ppb	90.715 %	30.429 ppb
Concentration per Run 1	1.145 ppb	0.299 ppb	428.746 ppb	4.779 ppb	81.957 %	0.007 ppb	0.008 ppb	84.676 %	29.914 ppb
Concentration per Run 2	1.023 ppb	0.196 ppb	437.354 ppb	4.612 ppb	87.809 %	0.006 ppb	0.003 ppb	88.862 %	30.281 ppb
Concentration per Run 3	1.183 ppb	0.262 ppb	464.994 ppb	4.889 ppb	90.796 %	0.004 ppb	0.008 ppb	98.607 %	31.092 ppb
Concentration RSD	7.5 %	20.7 %	4.3 %	2.9 %	5.2 %	30.9 %	42.6 %	7.9 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	67.296 ppb	95.207 %	96.822 %	0.375 ppb	0.058 ppb	89.118 %
Concentration per Run 1	66.033 ppb	88.658 %	90.033 %	0.385 ppb	0.061 ppb	83.546 %
Concentration per Run 2	67.603 ppb	94.258 %	94.719 %	0.422 ppb	0.061 ppb	89.179 %
Concentration per Run 3	68.252 ppb	102.704 %	105.714 %	0.319 ppb	0.053 ppb	94.628 %
Concentration RSD	1.7 %	7.4 %	8.3 %	14.0 %	8.4 %	6.2 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 70 User name: ALPHALAB\alpha2-icpmsq2 Comment: <Comment>
 Analysis label: WG1813615-3D10 6020TS Rack: 1
 Analysis started at: 8/9/2023 11:27:29 AM Vial: 45

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.385 %	102.889 %	11.510 ppb	2,157.731 ppb	3,563.036 ppb	30,489.732 ppb	2,697.949 ppb	3,228.100 ppb	96.395 %
Concentration per Run 1	101.159 %	100.401 %	11.568 ppb	2,111.625 ppb	3,445.615 ppb	29,086.165 ppb	2,580.710 ppb	3,190.164 ppb	96.530 %
Concentration per Run 2	99.412 %	103.291 %	11.685 ppb	2,129.573 ppb	3,517.095 ppb	30,010.029 ppb	2,695.442 ppb	2,973.837 ppb	95.438 %
Concentration per Run 3	100.583 %	104.976 %	11.278 ppb	2,231.995 ppb	3,726.399 ppb	32,373.001 ppb	2,817.696 ppb	3,520.300 ppb	97.216 %
Concentration RSD	0.9 %	2.2 %	1.8 %	3.0 %	4.1 %	5.6 %	4.4 %	8.5 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	124.559 ppb	65.803 ppb	258.124 ppb	12,357.686 ppb	99.975 ppb	106.211 ppb	60.818 ppb	142.612 ppb	95.174 %
Concentration per Run 1	121.405 ppb	64.141 ppb	249.583 ppb	11,966.776 ppb	97.285 ppb	103.322 ppb	59.223 ppb	137.488 ppb	93.972 %
Concentration per Run 2	120.525 ppb	65.020 ppb	254.379 ppb	12,396.165 ppb	100.938 ppb	108.327 ppb	62.149 ppb	145.249 ppb	94.604 %
Concentration per Run 3	131.747 ppb	68.247 ppb	270.411 ppb	12,710.117 ppb	101.704 ppb	106.986 ppb	61.083 ppb	145.101 ppb	96.945 %
Concentration RSD	5.0 %	3.3 %	4.2 %	3.0 %	2.4 %	2.4 %	2.4 %	3.1 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	32.241 ppb	28.222 ppb	220.499 ppb	190.111 ppb	88.830 %	10.268 ppb	10.753 ppb	92.555 %	88.597 ppb
Concentration per Run 1	31.589 ppb	26.347 ppb	203.811 ppb	184.993 ppb	87.443 %	10.252 ppb	10.602 ppb	88.777 %	86.402 ppb
Concentration per Run 2	31.742 ppb	28.069 ppb	229.110 ppb	193.759 ppb	87.619 %	10.433 ppb	10.781 ppb	89.689 %	90.803 ppb
Concentration per Run 3	33.391 ppb	30.249 ppb	228.576 ppb	191.581 ppb	91.428 %	10.121 ppb	10.876 ppb	99.200 %	88.587 ppb
Concentration RSD	3.1 %	6.9 %	6.6 %	2.4 %	2.5 %	1.5 %	1.3 %	6.2 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	604.902 ppb	91.079 %	87.600 %	24.017 ppb	148.844 ppb	92.264 %
Concentration per Run 1	587.196 ppb	87.127 %	82.903 %	23.108 ppb	146.112 ppb	88.630 %
Concentration per Run 2	607.651 ppb	90.165 %	85.883 %	24.449 ppb	151.604 ppb	91.713 %
Concentration per Run 3	619.860 ppb	95.946 %	94.015 %	24.496 ppb	148.815 ppb	96.448 %
Concentration RSD	2.7 %	4.9 %	6.6 %	3.3 %	1.8 %	4.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 71 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1813615-5D10 6020TS Rack: 1
 Analysis started at: 8/9/2023 11:31:59 AM Vial: 47

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.372 %	99.358 %	50.948 ppb	5,456.643 ppb	6,835.869 ppb	24,525.449 ppb	5,965.514 ppb	6,309.817 ppb	93.841 %
Concentration per Run 1	96.247 %	97.512 %	52.134 ppb	5,398.569 ppb	6,656.077 ppb	23,604.294 ppb	5,835.800 ppb	6,095.935 ppb	92.647 %
Concentration per Run 2	97.644 %	96.549 %	48.965 ppb	5,486.030 ppb	6,926.318 ppb	24,726.340 ppb	5,909.332 ppb	6,270.738 ppb	96.533 %
Concentration per Run 3	95.224 %	104.013 %	51.746 ppb	5,485.328 ppb	6,925.211 ppb	25,245.713 ppb	6,151.410 ppb	6,562.777 ppb	92.342 %
Concentration RSD	1.3 %	4.1 %	3.4 %	0.9 %	2.3 %	3.4 %	2.8 %	3.7 %	2.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	78.347 ppb	73.842 ppb	200.083 ppb	17,046.829 ppb	54.121 ppb	59.705 ppb	61.468 ppb	87.289 ppb	94.576 %
Concentration per Run 1	78.398 ppb	74.110 ppb	196.810 ppb	16,901.861 ppb	54.468 ppb	60.134 ppb	61.361 ppb	86.589 ppb	91.708 %
Concentration per Run 2	78.240 ppb	73.064 ppb	197.543 ppb	16,916.103 ppb	54.338 ppb	60.433 ppb	61.857 ppb	88.135 ppb	94.529 %
Concentration per Run 3	78.403 ppb	74.352 ppb	205.898 ppb	17,322.523 ppb	53.556 ppb	58.548 ppb	61.187 ppb	87.142 ppb	97.492 %
Concentration RSD	0.1 %	0.9 %	2.5 %	1.4 %	0.9 %	1.7 %	0.6 %	0.9 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.957 ppb	56.847 ppb	75.463 ppb	52.210 ppb	87.951 %	1.886 ppb	50.649 ppb	91.073 %	51.363 ppb
Concentration per Run 1	57.823 ppb	55.915 ppb	79.550 ppb	50.796 ppb	86.692 %	1.847 ppb	49.844 ppb	87.923 %	50.361 ppb
Concentration per Run 2	59.045 ppb	56.572 ppb	62.364 ppb	52.940 ppb	87.720 %	1.912 ppb	51.491 ppb	88.473 %	51.674 ppb
Concentration per Run 3	60.003 ppb	58.054 ppb	84.476 ppb	52.892 ppb	89.442 %	1.898 ppb	50.612 ppb	96.823 %	52.055 ppb
Concentration RSD	1.9 %	1.9 %	15.4 %	2.3 %	1.6 %	1.8 %	1.6 %	5.5 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	223.504 ppb	90.356 %	87.174 %	52.111 ppb	89.776 ppb	89.929 %
Concentration per Run 1	215.816 ppb	86.705 %	82.860 %	50.728 ppb	89.197 ppb	85.888 %
Concentration per Run 2	224.263 ppb	89.264 %	85.311 %	52.631 ppb	89.975 ppb	89.478 %
Concentration per Run 3	230.431 ppb	95.098 %	93.350 %	52.975 ppb	90.157 ppb	94.420 %
Concentration RSD	3.3 %	4.8 %	6.3 %	2.3 %	0.6 %	4.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 72 User name ALPHALAB\alpha2-icpmsq2 Comment <Comment>
 Analysis label: WG1813615-4D10 6020TS Rack 1
 Analysis started at: 8/9/2023 11:36:29 AM Vial 46

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.512 %	102.809 %	1.785 ppb	61.305 ppb	1,769.362 ppb	25,185.999 ppb	630.807 ppb	1,169.700 ppb	100.433 %
Concentration per Run 1	101.803 %	104.254 %	1.829 ppb	61.170 ppb	1,696.714 ppb	23,555.163 ppb	582.903 ppb	1,105.855 ppb	98.604 %
Concentration per Run 2	103.445 %	97.753 %	1.725 ppb	59.983 ppb	1,779.112 ppb	25,130.588 ppb	642.304 ppb	1,154.725 ppb	103.386 %
Concentration per Run 3	102.287 %	106.421 %	1.802 ppb	62.761 ppb	1,832.260 ppb	26,872.246 ppb	667.216 ppb	1,248.520 ppb	99.310 %
Concentration RSD	0.8 %	4.4 %	3.0 %	2.3 %	3.9 %	6.6 %	6.9 %	6.2 %	2.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	34.414 ppb	26.907 ppb	153.257 ppb	14,619.773 ppb	5.229 ppb	11.732 ppb	13.773 ppb	47.091 ppb	99.420 %
Concentration per Run 1	33.441 ppb	26.250 ppb	146.193 ppb	14,091.635 ppb	5.074 ppb	11.319 ppb	13.528 ppb	46.123 ppb	96.344 %
Concentration per Run 2	35.278 ppb	26.871 ppb	155.027 ppb	14,759.802 ppb	5.373 ppb	12.128 ppb	13.713 ppb	47.256 ppb	97.573 %
Concentration per Run 3	34.524 ppb	27.601 ppb	158.552 ppb	15,007.881 ppb	5.240 ppb	11.748 ppb	14.079 ppb	47.893 ppb	104.342 %
Concentration RSD	2.7 %	2.5 %	4.2 %	3.2 %	2.9 %	3.4 %	2.0 %	1.9 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.923 ppb	7.639 ppb	10.985 ppb	0.989 ppb	93.789 %	0.221 ppb	0.156 ppb	96.388 %	0.415 ppb
Concentration per Run 1	10.591 ppb	7.355 ppb	10.541 ppb	0.957 ppb	92.155 %	0.206 ppb	0.156 ppb	91.660 %	0.411 ppb
Concentration per Run 2	11.069 ppb	7.737 ppb	10.786 ppb	1.036 ppb	93.664 %	0.235 ppb	0.143 ppb	94.858 %	0.420 ppb
Concentration per Run 3	11.111 ppb	7.824 ppb	11.627 ppb	0.973 ppb	95.549 %	0.221 ppb	0.168 ppb	102.646 %	0.412 ppb
Concentration RSD	2.6 %	3.3 %	5.2 %	4.2 %	1.8 %	6.6 %	8.0 %	5.9 %	1.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	180.866 ppb	93.209 %	90.067 %	0.583 ppb	32.070 ppb	94.375 %
Concentration per Run 1	172.892 ppb	89.160 %	85.134 %	0.569 ppb	31.496 ppb	90.199 %
Concentration per Run 2	173.937 ppb	92.756 %	88.560 %	0.620 ppb	32.247 ppb	94.281 %
Concentration per Run 3	195.769 ppb	97.710 %	96.507 %	0.560 ppb	32.466 ppb	98.644 %
Concentration RSD	7.1 %	4.6 %	6.5 %	5.6 %	1.6 %	4.5 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 73 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-21D10 6020TS Rack 1
 Analysis started at: 8/9/2023 11:40:59 AM Vial 44

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.938 %	101.605 %	1.683 ppb	56.428 ppb	1,390.864 ppb	24,812.912 ppb	569.946 ppb	1,214.693 ppb	99.761 %
Concentration per Run 1	102.666 %	99.438 %	1.689 ppb	55.885 ppb	1,384.400 ppb	23,982.143 ppb	571.731 ppb	1,121.571 ppb	101.821 %
Concentration per Run 2	103.632 %	99.438 %	1.710 ppb	55.599 ppb	1,379.038 ppb	24,516.755 ppb	545.460 ppb	1,258.789 ppb	98.324 %
Concentration per Run 3	102.518 %	105.939 %	1.649 ppb	57.801 ppb	1,409.154 ppb	25,939.838 ppb	592.648 ppb	1,263.720 ppb	99.138 %
Concentration RSD	0.6 %	3.7 %	1.8 %	2.1 %	1.2 %	4.1 %	4.1 %	6.6 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	28.755 ppb	24.484 ppb	148.260 ppb	12,157.052 ppb	4.294 ppb	9.894 ppb	13.261 ppb	38.802 ppb	99.972 %
Concentration per Run 1	27.565 ppb	23.812 ppb	142.392 ppb	11,791.361 ppb	4.081 ppb	9.958 ppb	13.201 ppb	38.205 ppb	97.362 %
Concentration per Run 2	29.548 ppb	25.481 ppb	151.795 ppb	12,426.786 ppb	4.420 ppb	9.988 ppb	13.711 ppb	39.092 ppb	97.362 %
Concentration per Run 3	29.152 ppb	24.159 ppb	150.592 ppb	12,253.008 ppb	4.383 ppb	9.735 ppb	12.872 ppb	39.110 ppb	105.192 %
Concentration RSD	3.6 %	3.6 %	3.5 %	2.7 %	4.3 %	1.4 %	3.2 %	1.3 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.338 ppb	7.234 ppb	11.043 ppb	0.699 ppb	94.188 %	0.244 ppb	0.163 ppb	96.357 %	0.388 ppb
Concentration per Run 1	9.993 ppb	6.951 ppb	10.640 ppb	0.662 ppb	92.336 %	0.251 ppb	0.135 ppb	92.476 %	0.378 ppb
Concentration per Run 2	10.531 ppb	7.284 ppb	11.075 ppb	0.742 ppb	93.329 %	0.243 ppb	0.182 ppb	94.548 %	0.398 ppb
Concentration per Run 3	10.489 ppb	7.467 ppb	11.413 ppb	0.693 ppb	96.901 %	0.240 ppb	0.172 ppb	102.048 %	0.389 ppb
Concentration RSD	2.9 %	3.6 %	3.5 %	5.8 %	2.5 %	2.3 %	15.3 %	5.2 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	172.101 ppb	93.045 %	89.404 %	0.371 ppb	35.868 ppb	94.258 %
Concentration per Run 1	166.912 ppb	89.636 %	85.009 %	0.336 ppb	35.294 ppb	90.565 %
Concentration per Run 2	174.913 ppb	93.446 %	89.728 %	0.391 ppb	36.061 ppb	94.651 %
Concentration per Run 3	174.477 ppb	96.054 %	93.476 %	0.385 ppb	36.250 ppb	97.557 %
Concentration RSD	2.6 %	3.5 %	4.7 %	8.1 %	1.4 %	3.7 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 74 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-22D10 6020TS Rack 1
 Analysis started at: 8/9/2023 11:45:28 AM Vial 49

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.780 %	98.957 %	0.702 ppb	41.396 ppb	921.098 ppb	19,285.071 ppb	423.667 ppb	258.537 ppb	105.961 %
Concentration per Run 1	98.357 %	93.660 %	0.711 ppb	44.009 ppb	948.529 ppb	19,454.286 ppb	410.166 ppb	250.887 ppb	105.902 %
Concentration per Run 2	97.488 %	106.180 %	0.708 ppb	36.967 ppb	854.283 ppb	17,792.336 ppb	411.844 ppb	254.583 ppb	107.447 %
Concentration per Run 3	97.494 %	97.030 %	0.688 ppb	43.214 ppb	960.483 ppb	20,608.590 ppb	448.990 ppb	270.141 ppb	104.534 %
Concentration RSD	0.5 %	6.5 %	1.8 %	9.3 %	6.3 %	7.3 %	5.2 %	4.0 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.190 ppb	34.646 ppb	46.036 ppb	49,459.384 ppb	2.278 ppb	6.113 ppb	8.227 ppb	28.024 ppb	100.161 %
Concentration per Run 1	59.888 ppb	35.130 ppb	45.499 ppb	50,294.107 ppb	2.324 ppb	6.011 ppb	8.205 ppb	27.843 ppb	96.683 %
Concentration per Run 2	57.172 ppb	32.515 ppb	44.090 ppb	45,499.535 ppb	2.170 ppb	5.856 ppb	7.946 ppb	27.809 ppb	101.236 %
Concentration per Run 3	60.509 ppb	36.292 ppb	48.520 ppb	52,584.510 ppb	2.340 ppb	6.471 ppb	8.531 ppb	28.420 ppb	102.563 %
Concentration RSD	3.0 %	5.6 %	4.9 %	7.3 %	4.1 %	5.2 %	3.6 %	1.2 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.150 ppb	5.417 ppb	3.291 ppb	0.769 ppb	94.447 %	0.045 ppb	0.088 ppb	97.410 %	0.274 ppb
Concentration per Run 1	10.259 ppb	5.458 ppb	3.188 ppb	0.771 ppb	91.887 %	0.046 ppb	0.093 ppb	92.969 %	0.285 ppb
Concentration per Run 2	10.185 ppb	5.265 ppb	3.212 ppb	0.819 ppb	95.343 %	0.047 ppb	0.085 ppb	96.336 %	0.271 ppb
Concentration per Run 3	10.006 ppb	5.529 ppb	3.473 ppb	0.716 ppb	96.112 %	0.043 ppb	0.085 ppb	102.924 %	0.266 ppb
Concentration RSD	1.3 %	2.5 %	4.8 %	6.7 %	2.4 %	4.6 %	5.4 %	5.2 %	3.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	57.046 ppb	93.099 %	91.152 %	0.212 ppb	22.772 ppb	93.525 %
Concentration per Run 1	56.561 ppb	89.880 %	87.011 %	0.195 ppb	22.173 ppb	89.297 %
Concentration per Run 2	57.005 ppb	93.076 %	89.969 %	0.228 ppb	22.364 ppb	93.499 %
Concentration per Run 3	57.571 ppb	96.342 %	96.476 %	0.214 ppb	23.779 ppb	97.780 %
Concentration RSD	0.9 %	3.5 %	5.3 %	7.7 %	3.9 %	4.5 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 75 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-23D10 6020TS Rack 1
 Analysis started at: 8/9/2023 11:49:56 AM Vial 50

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.957 %	100.482 %	0.993 ppb	64.953 ppb	3,167.144 ppb	25,196.900 ppb	669.654 ppb	1,011.440 ppb	111.826 %
Concentration per Run 1	97.721 %	97.512 %	1.042 ppb	63.869 ppb	3,072.719 ppb	24,397.909 ppb	664.074 ppb	1,027.432 ppb	113.499 %
Concentration per Run 2	96.266 %	99.679 %	0.940 ppb	65.845 ppb	3,299.198 ppb	25,714.195 ppb	672.812 ppb	1,002.299 ppb	109.712 %
Concentration per Run 3	96.885 %	104.254 %	0.996 ppb	65.146 ppb	3,129.515 ppb	25,478.595 ppb	672.076 ppb	1,004.589 ppb	112.266 %
Concentration RSD	0.8 %	3.4 %	5.1 %	1.5 %	3.7 %	2.8 %	0.7 %	1.4 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	73.994 ppb	44.319 ppb	110.232 ppb	45,706.009 ppb	6.139 ppb	14.923 ppb	16.715 ppb	46.369 ppb	97.938 %
Concentration per Run 1	70.921 ppb	43.123 ppb	106.137 ppb	43,416.691 ppb	6.131 ppb	14.463 ppb	16.188 ppb	44.859 ppb	97.231 %
Concentration per Run 2	75.694 ppb	45.930 ppb	114.576 ppb	46,738.897 ppb	6.321 ppb	15.924 ppb	17.817 ppb	48.348 ppb	94.809 %
Concentration per Run 3	75.367 ppb	43.904 ppb	109.984 ppb	46,962.438 ppb	5.964 ppb	14.382 ppb	16.142 ppb	45.901 ppb	101.776 %
Concentration RSD	3.6 %	3.3 %	3.8 %	4.3 %	2.9 %	5.8 %	5.7 %	3.9 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.900 ppb	5.585 ppb	7.927 ppb	1.232 ppb	91.111 %	0.028 ppb	0.118 ppb	93.389 %	0.388 ppb
Concentration per Run 1	13.824 ppb	5.688 ppb	7.679 ppb	1.225 ppb	89.194 %	0.023 ppb	0.110 ppb	91.016 %	0.372 ppb
Concentration per Run 2	14.194 ppb	5.750 ppb	8.018 ppb	1.267 ppb	90.800 %	0.028 ppb	0.113 ppb	92.947 %	0.396 ppb
Concentration per Run 3	13.681 ppb	5.316 ppb	8.084 ppb	1.203 ppb	93.338 %	0.033 ppb	0.132 ppb	96.205 %	0.395 ppb
Concentration RSD	1.9 %	4.2 %	2.7 %	2.6 %	2.3 %	17.7 %	9.8 %	2.8 %	3.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	53.641 ppb	88.583 %	85.670 %	0.230 ppb	21.134 ppb	90.746 %
Concentration per Run 1	53.004 ppb	85.940 %	82.347 %	0.209 ppb	20.860 ppb	87.596 %
Concentration per Run 2	53.781 ppb	88.267 %	85.622 %	0.240 ppb	21.226 ppb	90.717 %
Concentration per Run 3	54.137 ppb	91.542 %	89.040 %	0.242 ppb	21.316 ppb	93.925 %
Concentration RSD	1.1 %	3.2 %	3.9 %	7.9 %	1.1 %	3.5 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 76 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1813615-6D50 6020TS Rack 1
 Analysis started at: 8/9/2023 11:54:25 AM Vial 48

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.890 %	94.542 %	0.364 ppb	18.078 ppb	278.428 ppb	4,996.859 ppb	128.131 ppb	253.131 ppb	91.520 %
Concentration per Run 1	92.907 %	96.790 %	0.383 ppb	16.996 ppb	266.214 ppb	4,837.005 ppb	139.421 ppb	252.705 ppb	91.182 %
Concentration per Run 2	93.430 %	96.308 %	0.359 ppb	17.705 ppb	276.762 ppb	4,931.587 ppb	115.816 ppb	267.443 ppb	93.256 %
Concentration per Run 3	92.333 %	90.530 %	0.351 ppb	19.532 ppb	292.307 ppb	5,221.986 ppb	129.157 ppb	239.244 ppb	90.122 %
Concentration RSD	0.6 %	3.7 %	4.5 %	7.2 %	4.7 %	4.0 %	9.2 %	5.6 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	6.191 ppb	5.186 ppb	30.344 ppb	2,513.018 ppb	0.895 ppb	2.266 ppb	2.807 ppb	8.898 ppb	92.754 %
Concentration per Run 1	6.241 ppb	4.918 ppb	30.291 ppb	2,491.020 ppb	0.854 ppb	2.021 ppb	2.688 ppb	9.082 ppb	91.287 %
Concentration per Run 2	5.938 ppb	5.089 ppb	29.000 ppb	2,456.198 ppb	0.841 ppb	2.201 ppb	2.667 ppb	8.629 ppb	95.081 %
Concentration per Run 3	6.392 ppb	5.549 ppb	31.741 ppb	2,591.834 ppb	0.990 ppb	2.575 ppb	3.065 ppb	8.985 ppb	91.895 %
Concentration RSD	3.7 %	6.3 %	4.5 %	2.8 %	9.2 %	12.5 %	8.0 %	2.7 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.148 ppb	1.794 ppb	2.206 ppb	0.162 ppb	90.877 %	0.052 ppb	0.036 ppb	91.532 %	0.088 ppb
Concentration per Run 1	2.107 ppb	1.673 ppb	2.220 ppb	0.133 ppb	90.210 %	0.047 ppb	0.043 ppb	90.464 %	0.082 ppb
Concentration per Run 2	2.044 ppb	1.826 ppb	2.183 ppb	0.162 ppb	90.654 %	0.056 ppb	0.037 ppb	90.744 %	0.094 ppb
Concentration per Run 3	2.293 ppb	1.885 ppb	2.214 ppb	0.191 ppb	91.767 %	0.053 ppb	0.027 ppb	93.389 %	0.089 ppb
Concentration RSD	6.0 %	6.1 %	0.9 %	17.8 %	0.9 %	8.5 %	22.3 %	1.8 %	7.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	32.969 ppb	91.532 %	90.136 %	0.096 ppb	7.149 ppb	94.040 %
Concentration per Run 1	32.650 ppb	89.073 %	86.298 %	0.084 ppb	7.072 ppb	91.322 %
Concentration per Run 2	33.802 ppb	92.169 %	91.466 %	0.104 ppb	7.203 ppb	94.092 %
Concentration per Run 3	32.455 ppb	93.355 %	92.645 %	0.101 ppb	7.172 ppb	96.707 %
Concentration RSD	2.2 %	2.4 %	3.7 %	11.2 %	1.0 %	2.9 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 77 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/9/2023 11:58:55 AM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.357 %	83.387 %	60.593 ppb	6,328.734 ppb	6,466.554 ppb	65.921 ppb	6,441.956 ppb	6,324.254 ppb	81.932 %
Concentration per Run 1	81.538 %	85.955 %	60.993 ppb	6,191.429 ppb	6,379.509 ppb	63.699 ppb	6,280.105 ppb	6,213.313 ppb	80.995 %
Concentration per Run 2	81.749 %	83.306 %	58.949 ppb	6,278.965 ppb	6,347.651 ppb	67.405 ppb	6,523.366 ppb	6,379.568 ppb	83.996 %
Concentration per Run 3	80.783 %	80.899 %	61.838 ppb	6,515.807 ppb	6,672.504 ppb	66.658 ppb	6,522.397 ppb	6,379.880 ppb	80.806 %
Recovery Percentage 1			100.989 %	105.479 %	107.776 %	109.868 %	107.366 %	105.404 %	
Concentration RSD	0.6 %	3.0 %	2.5 %	2.7 %	2.8 %	3.0 %	2.2 %	1.5 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.040 ppb	60.550 ppb	60.506 ppb	6,028.262 ppb	60.771 ppb	60.595 ppb	60.192 ppb	61.198 ppb	83.414 %
Concentration per Run 1	59.275 ppb	59.931 ppb	60.171 ppb	5,973.727 ppb	60.700 ppb	60.515 ppb	60.602 ppb	60.291 ppb	82.594 %
Concentration per Run 2	59.211 ppb	59.265 ppb	59.615 ppb	5,850.868 ppb	59.057 ppb	58.459 ppb	59.111 ppb	60.141 ppb	85.493 %
Concentration per Run 3	61.636 ppb	62.453 ppb	61.730 ppb	6,260.192 ppb	62.557 ppb	62.812 ppb	60.863 ppb	63.163 ppb	82.156 %
Recovery Percentage 1	100.067 %	100.916 %	100.843 %	100.471 %	101.285 %	100.992 %	100.320 %	101.997 %	
Concentration RSD	2.3 %	2.8 %	1.8 %	3.5 %	2.9 %	3.6 %	1.6 %	2.8 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.810 ppb	60.090 ppb	60.473 ppb	58.865 ppb	80.752 %	60.036 ppb	60.471 ppb	81.578 %	60.025 ppb
Concentration per Run 1	59.588 ppb	58.172 ppb	59.965 ppb	58.222 ppb	81.211 %	59.667 ppb	59.154 ppb	81.046 %	59.784 ppb
Concentration per Run 2	59.192 ppb	59.739 ppb	60.105 ppb	58.996 ppb	80.726 %	60.337 ppb	61.301 ppb	81.375 %	59.185 ppb
Concentration per Run 3	60.648 ppb	62.360 ppb	61.349 ppb	59.376 ppb	80.320 %	60.104 ppb	60.960 ppb	82.312 %	61.107 ppb
Recovery Percentage 1	99.683 %	100.150 %	100.788 %	98.108 %		100.060 %	100.786 %		100.042 %
Concentration RSD	1.3 %	3.5 %	1.3 %	1.0 %	0.6 %	0.6 %	1.9 %	0.8 %	1.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.986 ppb	86.064 %	86.309 %	59.833 ppb	61.080 ppb	84.800 %
Concentration per Run 1	59.166 ppb	85.830 %	86.122 %	57.537 ppb	59.824 ppb	83.236 %
Concentration per Run 2	59.287 ppb	85.487 %	85.099 %	60.674 ppb	61.689 ppb	85.013 %
Concentration per Run 3	61.506 ppb	86.875 %	87.706 %	61.286 ppb	61.728 ppb	86.153 %
Recovery Percentage 1	99.977 %			99.721 %	101.801 %	
Concentration RSD	2.2 %	0.8 %	1.5 %	3.4 %	1.8 %	1.7 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 78 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/9/2023 12:03:28 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.341 %	82.985 %	0.014 ppb	5.232 ppb	0.311 ppb	1.258 ppb	3.114 ppb	1.431 ppb	83.018 %
Concentration per Run 1	85.891 %	84.510 %	0.008 ppb	5.091 ppb	0.809 ppb	1.610 ppb	3.981 ppb	3.160 ppb	82.683 %
Concentration per Run 2	86.100 %	79.695 %	0.017 ppb	5.528 ppb	0.085 ppb	0.827 ppb	3.208 ppb	1.233 ppb	84.974 %
Concentration per Run 3	84.032 %	84.751 %	0.017 ppb	5.077 ppb	0.038 ppb	1.336 ppb	2.153 ppb	-0.101 ppb	81.397 %
Recovery Percentage 1			2.816 %	5.232 %	0.444 %	12.578 %	3.114 %	1.431 %	
Concentration RSD	1.3 %	3.4 %	35.8 %	4.9 %	139.1 %	31.6 %	29.5 %	114.6 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.009 ppb	0.011 ppb	0.087 ppb	16.750 ppb	0.005 ppb	0.058 ppb	0.044 ppb	0.559 ppb	83.622 %
Concentration per Run 1	-0.014 ppb	0.014 ppb	0.115 ppb	16.135 ppb	0.002 ppb	0.018 ppb	0.065 ppb	0.554 ppb	81.927 %
Concentration per Run 2	0.009 ppb	0.013 ppb	0.067 ppb	18.203 ppb	0.006 ppb	0.108 ppb	0.034 ppb	0.592 ppb	82.028 %
Concentration per Run 3	-0.022 ppb	0.005 ppb	0.080 ppb	15.913 ppb	0.008 ppb	0.046 ppb	0.032 ppb	0.531 ppb	86.912 %
Recovery Percentage 1	-0.177 %	1.061 %	8.741 %	33.501 %	1.091 %	2.877 %	4.372 %	11.175 %	
Concentration RSD	182.1 %	48.8 %	27.9 %	7.5 %	51.7 %	79.5 %	43.1 %	5.5 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.025 ppb	0.048 ppb	0.007 ppb	0.139 ppb	83.277 %	0.003 ppb	0.003 ppb	83.008 %	0.067 ppb
Concentration per Run 1	0.039 ppb	0.055 ppb	0.009 ppb	0.145 ppb	83.764 %	0.005 ppb	0.002 ppb	82.749 %	0.068 ppb
Concentration per Run 2	0.018 ppb	0.015 ppb	0.006 ppb	0.145 ppb	81.486 %	0.001 ppb	0.003 ppb	80.213 %	0.061 ppb
Concentration per Run 3	0.017 ppb	0.073 ppb	0.007 ppb	0.126 ppb	84.582 %	0.003 ppb	0.004 ppb	86.062 %	0.072 ppb
Recovery Percentage 1	4.941 %	0.954 %	0.073 %	6.940 %		0.811 %	1.450 %		1.673 %
Concentration RSD	52.0 %	62.3 %	24.0 %	7.7 %	1.9 %	65.0 %	47.5 %	3.5 %	8.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.027 ppb	86.647 %	86.664 %	0.342 ppb	0.013 ppb	88.067 %
Concentration per Run 1	0.032 ppb	86.604 %	85.988 %	0.345 ppb	0.012 ppb	86.687 %
Concentration per Run 2	0.010 ppb	83.198 %	81.959 %	0.375 ppb	0.013 ppb	85.377 %
Concentration per Run 3	0.038 ppb	90.138 %	92.044 %	0.305 ppb	0.013 ppb	92.137 %
Recovery Percentage 1	5.394 %			34.172 %	1.296 %	
Concentration RSD	54.7 %	4.0 %	5.9 %	10.3 %	5.1 %	4.1 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 79 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: WG1813612-1D10 6020TS Rack: 1
 Analysis started at: 8/9/2023 12:13:09 PM Vial: 57

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.740 %	87.560 %	0.005 ppb	5.923 ppb	1.725 ppb	3.677 ppb	1.785 ppb	7.210 ppb	88.631 %
Concentration per Run 1	89.859 %	87.159 %	0.005 ppb	6.031 ppb	1.742 ppb	7.199 ppb	0.330 ppb	4.971 ppb	88.687 %
Concentration per Run 2	89.185 %	88.603 %	0.003 ppb	4.942 ppb	1.458 ppb	1.715 ppb	3.362 ppb	5.783 ppb	88.427 %
Concentration per Run 3	90.176 %	86.918 %	0.008 ppb	6.795 ppb	1.974 ppb	2.115 ppb	1.663 ppb	10.876 ppb	88.779 %
Concentration RSD	0.6 %	1.0 %	47.5 %	15.7 %	15.0 %	83.1 %	85.1 %	44.4 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.021 ppb	0.014 ppb	0.052 ppb	3.985 ppb	0.000 ppb	0.093 ppb	0.046 ppb	0.373 ppb	85.899 %
Concentration per Run 1	0.020 ppb	0.021 ppb	0.063 ppb	5.091 ppb	0.000 ppb	0.063 ppb	0.041 ppb	0.373 ppb	84.550 %
Concentration per Run 2	0.005 ppb	0.010 ppb	0.042 ppb	3.773 ppb	-0.002 ppb	0.115 ppb	0.057 ppb	0.349 ppb	86.365 %
Concentration per Run 3	0.039 ppb	0.010 ppb	0.052 ppb	3.090 ppb	0.002 ppb	0.101 ppb	0.040 ppb	0.396 ppb	86.781 %
Concentration RSD	81.3 %	44.5 %	19.5 %	25.5 %	727.8 %	28.6 %	20.8 %	6.2 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.019 ppb	0.017 ppb	0.009 ppb	0.056 ppb	87.008 %	0.001 ppb	0.000 ppb	87.514 %	0.022 ppb
Concentration per Run 1	0.021 ppb	0.026 ppb	0.009 ppb	0.074 ppb	86.198 %	0.000 ppb	0.000 ppb	85.295 %	0.034 ppb
Concentration per Run 2	0.017 ppb	-0.003 ppb	0.010 ppb	0.040 ppb	86.629 %	0.002 ppb	0.001 ppb	87.833 %	0.016 ppb
Concentration per Run 3	0.020 ppb	0.030 ppb	0.008 ppb	0.055 ppb	88.195 %	0.001 ppb	0.001 ppb	89.415 %	0.015 ppb
Concentration RSD	11.2 %	104.8 %	13.4 %	30.1 %	1.2 %	72.8 %	158.2 %	2.4 %	48.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.020 ppb	89.836 %	89.879 %	0.127 ppb	0.011 ppb	90.478 %
Concentration per Run 1	0.010 ppb	86.161 %	85.650 %	0.186 ppb	0.010 ppb	86.634 %
Concentration per Run 2	0.038 ppb	88.948 %	88.653 %	0.110 ppb	0.012 ppb	90.397 %
Concentration per Run 3	0.012 ppb	94.400 %	95.333 %	0.085 ppb	0.010 ppb	94.403 %
Concentration RSD	79.5 %	4.7 %	5.5 %	41.2 %	7.8 %	4.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 80 User name: ALPHALAB\alpha2-icpmsq2 Comment: <Comment>
 Analysis label: WG1813612-2D10 6020TS Rack: 1
 Analysis started at: 8/9/2023 12:17:38 PM Vial: 58

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.657 %	84.430 %	60.049 ppb	1,427.039 ppb	1,819.715 ppb	4,985.615 ppb	1,509.126 ppb	3,754.673 ppb	92.211 %
Concentration per Run 1	89.109 %	89.326 %	60.258 ppb	1,391.401 ppb	1,778.673 ppb	4,810.867 ppb	1,471.898 ppb	3,620.885 ppb	92.501 %
Concentration per Run 2	88.838 %	83.066 %	58.964 ppb	1,372.903 ppb	1,752.834 ppb	4,820.179 ppb	1,425.920 ppb	3,585.499 ppb	93.172 %
Concentration per Run 3	88.023 %	80.899 %	60.924 ppb	1,516.812 ppb	1,927.638 ppb	5,325.799 ppb	1,629.560 ppb	4,057.634 ppb	90.959 %
Concentration RSD	0.6 %	5.2 %	1.7 %	5.5 %	5.2 %	5.9 %	7.1 %	7.0 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	158.914 ppb	154.051 ppb	305.795 ppb	10,556.984 ppb	76.396 ppb	134.467 ppb	109.507 ppb	182.233 ppb	87.793 %
Concentration per Run 1	154.965 ppb	151.188 ppb	302.944 ppb	10,313.800 ppb	74.718 ppb	131.623 ppb	108.108 ppb	179.899 ppb	88.543 %
Concentration per Run 2	155.945 ppb	149.247 ppb	293.679 ppb	10,343.724 ppb	75.540 ppb	133.903 ppb	107.501 ppb	179.932 ppb	87.851 %
Concentration per Run 3	165.831 ppb	161.717 ppb	320.761 ppb	11,013.429 ppb	78.931 ppb	137.877 ppb	112.912 ppb	186.868 ppb	86.984 %
Concentration RSD	3.8 %	4.4 %	4.5 %	3.7 %	2.9 %	2.4 %	2.7 %	2.2 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	148.719 ppb	173.289 ppb	86.847 ppb	142.179 ppb	86.588 %	55.739 ppb	164.250 ppb	86.844 %	145.852 ppb
Concentration per Run 1	146.403 ppb	171.945 ppb	85.154 ppb	140.586 ppb	86.229 %	55.144 ppb	161.570 ppb	85.987 %	143.800 ppb
Concentration per Run 2	148.204 ppb	169.762 ppb	86.432 ppb	141.691 ppb	86.619 %	55.996 ppb	165.666 ppb	87.032 %	145.672 ppb
Concentration per Run 3	151.550 ppb	178.161 ppb	88.954 ppb	144.260 ppb	86.915 %	56.079 ppb	165.515 ppb	87.512 %	148.084 ppb
Concentration RSD	1.8 %	2.5 %	2.2 %	1.3 %	0.4 %	0.9 %	1.4 %	0.9 %	1.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	224.291 ppb	89.317 %	88.921 %	61.909 ppb	224.496 ppb	90.299 %
Concentration per Run 1	219.841 ppb	87.876 %	87.161 %	59.338 ppb	220.754 ppb	88.698 %
Concentration per Run 2	224.796 ppb	89.403 %	87.774 %	62.784 ppb	226.691 ppb	88.986 %
Concentration per Run 3	228.237 ppb	90.672 %	91.827 %	63.606 ppb	226.044 ppb	93.214 %
Concentration RSD	1.9 %	1.6 %	2.9 %	3.7 %	1.5 %	2.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 81 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-24D10 6020TS Rack 1
 Analysis started at: 8/9/2023 12:22:08 PM Vial 51

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.299 %	96.950 %	0.755 ppb	50.502 ppb	1,918.043 ppb	21,311.002 ppb	554.302 ppb	467.047 ppb	107.931 %
Concentration per Run 1	93.489 %	100.401 %	0.765 ppb	49.014 ppb	1,835.204 ppb	20,433.863 ppb	550.497 ppb	430.916 ppb	106.850 %
Concentration per Run 2	94.378 %	100.161 %	0.727 ppb	50.050 ppb	1,911.590 ppb	20,812.014 ppb	551.218 ppb	481.407 ppb	111.052 %
Concentration per Run 3	92.030 %	90.289 %	0.772 ppb	52.442 ppb	2,007.335 ppb	22,687.131 ppb	561.191 ppb	488.820 ppb	105.893 %
Concentration RSD	1.3 %	6.0 %	3.2 %	3.5 %	4.5 %	5.7 %	1.1 %	6.7 %	2.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	70.069 ppb	44.116 ppb	58.957 ppb	57,819.469 ppb	4.188 ppb	10.463 ppb	13.503 ppb	32.207 ppb	96.169 %
Concentration per Run 1	69.330 ppb	43.123 ppb	58.269 ppb	57,467.760 ppb	4.209 ppb	10.186 ppb	13.722 ppb	32.341 ppb	93.944 %
Concentration per Run 2	67.873 ppb	43.398 ppb	56.678 ppb	55,619.684 ppb	4.100 ppb	10.323 ppb	13.101 ppb	31.544 ppb	97.489 %
Concentration per Run 3	73.005 ppb	45.826 ppb	61.925 ppb	60,370.963 ppb	4.256 ppb	10.881 ppb	13.687 ppb	32.736 ppb	97.075 %
Concentration RSD	3.8 %	3.4 %	4.6 %	4.1 %	1.9 %	3.5 %	2.6 %	1.9 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.009 ppb	5.212 ppb	3.767 ppb	1.057 ppb	89.385 %	0.023 ppb	0.081 ppb	90.550 %	0.375 ppb
Concentration per Run 1	13.013 ppb	5.518 ppb	3.819 ppb	1.144 ppb	89.981 %	0.026 ppb	0.075 ppb	90.466 %	0.343 ppb
Concentration per Run 2	12.861 ppb	4.929 ppb	3.587 ppb	1.060 ppb	87.352 %	0.025 ppb	0.098 ppb	88.047 %	0.388 ppb
Concentration per Run 3	13.155 ppb	5.190 ppb	3.895 ppb	0.965 ppb	90.822 %	0.019 ppb	0.070 ppb	93.137 %	0.394 ppb
Concentration RSD	1.1 %	5.7 %	4.3 %	8.5 %	2.0 %	16.8 %	18.4 %	2.8 %	7.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	41.569 ppb	88.042 %	85.839 %	0.508 ppb	19.571 ppb	90.097 %
Concentration per Run 1	41.335 ppb	87.626 %	86.089 %	0.504 ppb	19.293 ppb	88.130 %
Concentration per Run 2	41.286 ppb	84.993 %	81.454 %	0.551 ppb	19.671 ppb	88.977 %
Concentration per Run 3	42.088 ppb	91.507 %	89.974 %	0.469 ppb	19.749 ppb	93.182 %
Concentration RSD	1.1 %	3.7 %	5.0 %	8.1 %	1.2 %	3.0 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 82 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-25D10 6020TS Rack 1
 Analysis started at: 8/9/2023 12:26:37 PM Vial 52

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.340 %	87.480 %	0.529 ppb	44.731 ppb	799.828 ppb	16,220.058 ppb	420.833 ppb	653.933 ppb	93.788 %
Concentration per Run 1	93.217 %	88.844 %	0.505 ppb	46.145 ppb	775.426 ppb	15,828.477 ppb	411.031 ppb	581.872 ppb	93.300 %
Concentration per Run 2	91.815 %	89.567 %	0.531 ppb	44.435 ppb	809.042 ppb	16,346.530 ppb	427.460 ppb	641.470 ppb	94.047 %
Concentration per Run 3	91.988 %	84.029 %	0.552 ppb	43.612 ppb	815.015 ppb	16,485.168 ppb	424.008 ppb	738.458 ppb	94.017 %
Concentration RSD	0.8 %	3.4 %	4.4 %	2.9 %	2.7 %	2.1 %	2.1 %	12.1 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	21.005 ppb	19.119 ppb	57.571 ppb	8,227.075 ppb	1.854 ppb	5.781 ppb	4.432 ppb	19.526 ppb	91.118 %
Concentration per Run 1	20.552 ppb	18.599 ppb	56.116 ppb	7,964.357 ppb	1.888 ppb	5.566 ppb	4.200 ppb	19.056 ppb	92.827 %
Concentration per Run 2	20.831 ppb	18.715 ppb	56.524 ppb	8,201.873 ppb	1.739 ppb	5.459 ppb	4.371 ppb	19.715 ppb	94.725 %
Concentration per Run 3	21.633 ppb	20.042 ppb	60.073 ppb	8,514.995 ppb	1.936 ppb	6.318 ppb	4.723 ppb	19.806 ppb	85.803 %
Concentration RSD	2.7 %	4.2 %	3.8 %	3.4 %	5.5 %	8.1 %	6.0 %	2.1 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	5.740 ppb	3.845 ppb	6.214 ppb	0.312 ppb	87.963 %	0.079 ppb	0.067 ppb	88.264 %	0.171 ppb
Concentration per Run 1	5.707 ppb	3.722 ppb	6.156 ppb	0.272 ppb	86.698 %	0.076 ppb	0.058 ppb	86.847 %	0.164 ppb
Concentration per Run 2	5.598 ppb	3.694 ppb	6.057 ppb	0.323 ppb	88.869 %	0.077 ppb	0.077 ppb	89.246 %	0.160 ppb
Concentration per Run 3	5.916 ppb	4.117 ppb	6.430 ppb	0.340 ppb	88.321 %	0.083 ppb	0.064 ppb	88.699 %	0.190 ppb
Concentration RSD	2.8 %	6.2 %	3.1 %	11.3 %	1.3 %	4.9 %	14.6 %	1.4 %	9.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	121.732 ppb	87.431 %	85.062 %	0.253 ppb	20.330 ppb	90.555 %
Concentration per Run 1	120.437 ppb	84.900 %	82.646 %	0.222 ppb	19.722 ppb	87.629 %
Concentration per Run 2	121.808 ppb	87.983 %	85.581 %	0.277 ppb	21.352 ppb	91.687 %
Concentration per Run 3	122.952 ppb	89.412 %	86.958 %	0.260 ppb	19.916 ppb	92.349 %
Concentration RSD	1.0 %	2.6 %	2.6 %	11.0 %	4.4 %	2.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 83 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: I2345740-26D10 6020TS Rack: 1
 Analysis started at: 8/9/2023 12:31:05 PM Vial: 53

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.919 %	95.425 %	1.116 ppb	50.526 ppb	1,583.691 ppb	23,101.812 ppb	533.555 ppb	643.657 ppb	100.256 %
Concentration per Run 1	95.337 %	97.512 %	1.127 ppb	52.666 ppb	1,591.477 ppb	22,857.955 ppb	559.463 ppb	628.815 ppb	100.831 %
Concentration per Run 2	95.386 %	95.827 %	1.072 ppb	49.785 ppb	1,539.534 ppb	22,931.188 ppb	517.562 ppb	672.830 ppb	101.382 %
Concentration per Run 3	94.035 %	92.937 %	1.148 ppb	49.127 ppb	1,620.063 ppb	23,516.292 ppb	523.639 ppb	629.326 ppb	98.553 %
Concentration RSD	0.8 %	2.4 %	3.5 %	3.7 %	2.6 %	1.6 %	4.2 %	3.9 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.879 ppb	37.421 ppb	215.693 ppb	28,944.903 ppb	5.198 ppb	10.917 ppb	13.924 ppb	43.374 ppb	93.858 %
Concentration per Run 1	60.297 ppb	37.481 ppb	217.019 ppb	29,180.579 ppb	5.164 ppb	10.877 ppb	13.647 ppb	43.229 ppb	91.470 %
Concentration per Run 2	60.843 ppb	36.429 ppb	209.383 ppb	28,105.451 ppb	5.152 ppb	10.511 ppb	13.711 ppb	42.645 ppb	97.067 %
Concentration per Run 3	61.497 ppb	38.353 ppb	220.678 ppb	29,548.680 ppb	5.278 ppb	11.362 ppb	14.415 ppb	44.247 ppb	93.039 %
Concentration RSD	1.0 %	2.6 %	2.7 %	2.6 %	1.3 %	3.9 %	3.1 %	1.9 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.357 ppb	6.284 ppb	6.394 ppb	0.723 ppb	89.671 %	0.116 ppb	0.135 ppb	90.300 %	0.403 ppb
Concentration per Run 1	13.338 ppb	6.876 ppb	6.509 ppb	0.769 ppb	89.197 %	0.119 ppb	0.148 ppb	90.980 %	0.417 ppb
Concentration per Run 2	13.114 ppb	5.925 ppb	6.450 ppb	0.703 ppb	91.939 %	0.112 ppb	0.119 ppb	92.694 %	0.398 ppb
Concentration per Run 3	13.618 ppb	6.052 ppb	6.225 ppb	0.697 ppb	87.876 %	0.117 ppb	0.136 ppb	87.225 %	0.394 ppb
Concentration RSD	1.9 %	8.2 %	2.3 %	5.5 %	2.3 %	3.0 %	10.9 %	3.1 %	3.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	129.560 ppb	86.928 %	83.125 %	0.265 ppb	37.888 ppb	89.805 %
Concentration per Run 1	128.483 ppb	86.081 %	82.831 %	0.243 ppb	36.387 ppb	87.646 %
Concentration per Run 2	130.578 ppb	87.930 %	83.725 %	0.276 ppb	39.792 ppb	90.689 %
Concentration per Run 3	129.619 ppb	86.774 %	82.820 %	0.277 ppb	37.485 ppb	91.079 %
Concentration RSD	0.8 %	1.1 %	0.6 %	7.3 %	4.6 %	2.1 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 84 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: I2345740-27D10 6020TS Rack: 1
 Analysis started at: 8/9/2023 12:35:34 PM Vial: 54

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.582 %	91.733 %	1.172 ppb	73.496 ppb	4,853.599 ppb	30,045.586 ppb	1,072.724 ppb	2,003.373 ppb	110.407 %
Concentration per Run 1	90.775 %	91.733 %	1.159 ppb	78.326 ppb	4,938.426 ppb	30,929.618 ppb	1,090.027 ppb	2,013.496 ppb	111.301 %
Concentration per Run 2	91.609 %	90.289 %	1.169 ppb	74.021 ppb	4,985.299 ppb	30,769.152 ppb	1,085.041 ppb	2,090.255 ppb	111.792 %
Concentration per Run 3	89.361 %	93.178 %	1.188 ppb	68.141 ppb	4,637.072 ppb	28,437.989 ppb	1,043.105 ppb	1,906.367 ppb	108.130 %
Concentration RSD	1.3 %	1.6 %	1.2 %	7.0 %	3.9 %	4.6 %	2.4 %	4.6 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	85.366 ppb	50.447 ppb	224.755 ppb	58,635.612 ppb	9.268 ppb	20.515 ppb	22.104 ppb	63.880 ppb	94.282 %
Concentration per Run 1	83.654 ppb	49.334 ppb	225.144 ppb	57,849.330 ppb	8.959 ppb	20.399 ppb	21.198 ppb	62.844 ppb	97.231 %
Concentration per Run 2	88.577 ppb	52.147 ppb	229.943 ppb	59,720.228 ppb	9.358 ppb	20.872 ppb	22.513 ppb	65.056 ppb	94.483 %
Concentration per Run 3	83.868 ppb	49.860 ppb	219.177 ppb	58,337.279 ppb	9.489 ppb	20.273 ppb	22.602 ppb	63.740 ppb	91.132 %
Concentration RSD	3.3 %	3.0 %	2.4 %	1.7 %	3.0 %	1.5 %	3.6 %	1.7 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	14.478 ppb	5.276 ppb	9.310 ppb	1.660 ppb	88.664 %	0.013 ppb	0.057 ppb	91.951 %	0.410 ppb
Concentration per Run 1	14.061 ppb	5.014 ppb	9.182 ppb	1.558 ppb	88.055 %	0.012 ppb	0.046 ppb	91.850 %	0.396 ppb
Concentration per Run 2	14.818 ppb	5.954 ppb	9.304 ppb	1.751 ppb	89.676 %	0.014 ppb	0.057 ppb	93.194 %	0.418 ppb
Concentration per Run 3	14.553 ppb	4.859 ppb	9.443 ppb	1.670 ppb	88.261 %	0.015 ppb	0.067 ppb	90.809 %	0.416 ppb
Concentration RSD	2.7 %	11.2 %	1.4 %	5.8 %	1.0 %	11.6 %	18.2 %	1.3 %	3.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	63.314 ppb	85.003 %	82.091 %	0.260 ppb	23.667 ppb	87.598 %
Concentration per Run 1	62.194 ppb	83.591 %	81.185 %	0.242 ppb	23.243 ppb	84.799 %
Concentration per Run 2	63.654 ppb	85.612 %	82.031 %	0.271 ppb	23.832 ppb	87.378 %
Concentration per Run 3	64.094 ppb	85.805 %	83.058 %	0.266 ppb	23.927 ppb	90.617 %
Concentration RSD	1.6 %	1.4 %	1.1 %	5.9 %	1.6 %	3.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 85 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-28D10 6020TS Rack 1
 Analysis started at: 8/9/2023 12:40:03 PM Vial 55

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.163 %	89.647 %	0.892 ppb	63.867 ppb	3,033.439 ppb	30,508.794 ppb	768.213 ppb	531.863 ppb	101.011 %
Concentration per Run 1	92.086 %	89.566 %	0.922 ppb	63.395 ppb	3,013.972 ppb	31,523.304 ppb	807.708 ppb	558.144 ppb	102.348 %
Concentration per Run 2	90.850 %	96.790 %	0.958 ppb	62.932 ppb	2,889.302 ppb	28,637.748 ppb	727.545 ppb	529.399 ppb	99.352 %
Concentration per Run 3	90.554 %	82.584 %	0.795 ppb	65.273 ppb	3,197.043 ppb	31,365.330 ppb	769.387 ppb	508.045 ppb	101.333 %
Concentration RSD	0.9 %	7.9 %	9.6 %	1.9 %	5.1 %	5.3 %	5.2 %	4.7 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	66.588 ppb	45.755 ppb	140.184 ppb	34,930.319 ppb	5.834 ppb	15.680 ppb	11.530 ppb	60.974 ppb	95.019 %
Concentration per Run 1	66.218 ppb	44.674 ppb	139.839 ppb	34,193.211 ppb	5.741 ppb	14.986 ppb	11.209 ppb	59.965 ppb	97.493 %
Concentration per Run 2	65.993 ppb	44.944 ppb	139.097 ppb	34,777.243 ppb	5.785 ppb	15.456 ppb	11.653 ppb	60.688 ppb	94.395 %
Concentration per Run 3	67.552 ppb	47.646 ppb	141.617 ppb	35,820.502 ppb	5.976 ppb	16.597 ppb	11.728 ppb	62.269 ppb	93.171 %
Concentration RSD	1.3 %	3.6 %	0.9 %	2.4 %	2.1 %	5.3 %	2.4 %	1.9 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	8.439 ppb	5.242 ppb	7.077 ppb	0.762 ppb	87.519 %	0.038 ppb	0.084 ppb	89.446 %	0.356 ppb
Concentration per Run 1	8.102 ppb	4.986 ppb	7.202 ppb	0.749 ppb	89.236 %	0.036 ppb	0.075 ppb	94.818 %	0.314 ppb
Concentration per Run 2	8.496 ppb	4.948 ppb	6.999 ppb	0.789 ppb	87.254 %	0.040 ppb	0.093 ppb	89.705 %	0.381 ppb
Concentration per Run 3	8.721 ppb	5.792 ppb	7.031 ppb	0.749 ppb	86.067 %	0.038 ppb	0.084 ppb	83.814 %	0.374 ppb
Concentration RSD	3.7 %	9.1 %	1.5 %	3.0 %	1.8 %	4.6 %	10.6 %	6.2 %	10.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	101.117 ppb	82.980 %	80.485 %	0.249 ppb	23.996 ppb	86.112 %
Concentration per Run 1	99.644 ppb	83.833 %	82.546 %	0.220 ppb	23.371 ppb	85.291 %
Concentration per Run 2	102.867 ppb	83.581 %	80.551 %	0.264 ppb	24.266 ppb	86.406 %
Concentration per Run 3	100.839 ppb	81.525 %	78.359 %	0.264 ppb	24.351 ppb	86.640 %
Concentration RSD	1.6 %	1.5 %	2.6 %	10.3 %	2.3 %	0.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 86 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-29D10 6020TS Rack 1
 Analysis started at: 8/9/2023 12:44:32 PM Vial 56

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.030 %	88.042 %	0.999 ppb	36.741 ppb	2,686.610 ppb	26,083.402 ppb	534.141 ppb	758.782 ppb	94.186 %
Concentration per Run 1	88.511 %	86.918 %	1.026 ppb	37.633 ppb	2,836.507 ppb	27,521.898 ppb	563.175 ppb	780.869 ppb	93.370 %
Concentration per Run 2	88.615 %	84.270 %	0.988 ppb	38.346 ppb	2,633.979 ppb	26,140.057 ppb	525.463 ppb	802.506 ppb	96.271 %
Concentration per Run 3	86.966 %	92.937 %	0.983 ppb	34.243 ppb	2,589.344 ppb	24,588.250 ppb	513.786 ppb	692.972 ppb	92.918 %
Concentration RSD	1.0 %	5.0 %	2.4 %	6.0 %	4.9 %	5.6 %	4.8 %	7.6 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	68.078 ppb	45.076 ppb	84.535 ppb	42,930.701 ppb	4.907 ppb	15.003 ppb	9.777 ppb	69.512 ppb	91.309 %
Concentration per Run 1	67.219 ppb	44.632 ppb	85.991 ppb	42,796.501 ppb	4.809 ppb	14.894 ppb	9.162 ppb	68.615 ppb	93.699 %
Concentration per Run 2	66.739 ppb	44.359 ppb	82.734 ppb	41,960.215 ppb	4.817 ppb	14.500 ppb	10.175 ppb	69.223 ppb	93.649 %
Concentration per Run 3	70.276 ppb	46.236 ppb	84.879 ppb	44,035.387 ppb	5.095 ppb	15.614 ppb	9.994 ppb	70.698 ppb	86.579 %
Concentration RSD	2.8 %	2.3 %	2.0 %	2.4 %	3.3 %	3.8 %	5.5 %	1.5 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	14.455 ppb	4.244 ppb	5.551 ppb	1.105 ppb	87.144 %	0.053 ppb	0.112 ppb	89.265 %	0.603 ppb
Concentration per Run 1	14.394 ppb	4.210 ppb	5.786 ppb	1.053 ppb	87.333 %	0.053 ppb	0.125 ppb	92.048 %	0.631 ppb
Concentration per Run 2	14.186 ppb	4.431 ppb	5.469 ppb	1.113 ppb	88.394 %	0.049 ppb	0.103 ppb	89.532 %	0.579 ppb
Concentration per Run 3	14.784 ppb	4.091 ppb	5.397 ppb	1.149 ppb	85.704 %	0.057 ppb	0.107 ppb	86.214 %	0.599 ppb
Concentration RSD	2.1 %	4.1 %	3.7 %	4.4 %	1.6 %	7.6 %	10.6 %	3.3 %	4.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	87.429 ppb	84.154 %	82.295 %	0.183 ppb	26.134 ppb	86.190 %
Concentration per Run 1	87.242 ppb	83.796 %	83.330 %	0.163 ppb	25.174 ppb	85.067 %
Concentration per Run 2	86.886 ppb	83.205 %	80.929 %	0.187 ppb	25.957 ppb	86.022 %
Concentration per Run 3	88.159 ppb	85.461 %	82.627 %	0.200 ppb	27.271 ppb	87.482 %
Concentration RSD	0.8 %	1.4 %	1.5 %	10.2 %	4.1 %	1.4 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 87 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-02D10 6020TS Rack 2
 Analysis started at: 8/9/2023 12:49:01 PM Vial 4

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.713 %	87.640 %	1.397 ppb	92.107 ppb	3,106.782 ppb	21,846.741 ppb	702.659 ppb	1,675.674 ppb	92.732 %
Concentration per Run 1	86.548 %	95.104 %	1.419 ppb	88.005 ppb	3,034.941 ppb	21,860.886 ppb	728.254 ppb	1,758.009 ppb	92.414 %
Concentration per Run 2	86.985 %	88.603 %	1.338 ppb	98.074 ppb	3,072.375 ppb	21,667.166 ppb	686.424 ppb	1,594.262 ppb	93.579 %
Concentration per Run 3	86.606 %	79.213 %	1.433 ppb	90.243 ppb	3,213.030 ppb	22,012.172 ppb	693.298 ppb	1,674.751 ppb	92.201 %
Concentration RSD	0.3 %	9.1 %	3.7 %	5.7 %	3.0 %	0.8 %	3.2 %	4.9 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.604 ppb	32.711 ppb	1,039.707 ppb	32,698.235 ppb	12.921 ppb	15.906 ppb	20.048 ppb	90.506 ppb	91.317 %
Concentration per Run 1	57.353 ppb	31.814 ppb	1,034.896 ppb	31,902.246 ppb	12.245 ppb	15.212 ppb	19.249 ppb	87.898 ppb	95.209 %
Concentration per Run 2	54.957 ppb	31.764 ppb	1,012.526 ppb	32,114.457 ppb	12.984 ppb	15.642 ppb	19.602 ppb	89.898 ppb	93.765 %
Concentration per Run 3	60.500 ppb	34.555 ppb	1,071.699 ppb	34,078.004 ppb	13.534 ppb	16.862 ppb	21.293 ppb	93.721 ppb	84.975 %
Concentration RSD	4.8 %	4.9 %	2.9 %	3.7 %	5.0 %	5.4 %	5.4 %	3.3 %	6.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	21.020 ppb	7.301 ppb	14.043 ppb	1.397 ppb	86.224 %	0.138 ppb	0.699 ppb	88.744 %	0.852 ppb
Concentration per Run 1	20.790 ppb	6.882 ppb	14.471 ppb	1.306 ppb	85.726 %	0.138 ppb	0.712 ppb	90.413 %	0.870 ppb
Concentration per Run 2	20.721 ppb	7.408 ppb	13.517 ppb	1.380 ppb	87.016 %	0.143 ppb	0.676 ppb	87.376 %	0.834 ppb
Concentration per Run 3	21.548 ppb	7.611 ppb	14.142 ppb	1.505 ppb	85.930 %	0.132 ppb	0.709 ppb	88.441 %	0.851 ppb
Concentration RSD	2.2 %	5.2 %	3.4 %	7.2 %	0.8 %	4.1 %	2.8 %	1.7 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	170.081 ppb	84.953 %	82.152 %	0.266 ppb	83.943 ppb	85.848 %
Concentration per Run 1	169.835 ppb	85.020 %	83.652 %	0.249 ppb	82.064 ppb	84.279 %
Concentration per Run 2	169.695 ppb	83.887 %	79.958 %	0.273 ppb	84.674 ppb	85.465 %
Concentration per Run 3	170.714 ppb	85.952 %	82.847 %	0.275 ppb	85.090 ppb	87.800 %
Concentration RSD	0.3 %	1.2 %	2.4 %	5.5 %	2.0 %	2.1 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 88 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-03D10 6020TS Rack 2
 Analysis started at: 8/9/2023 12:53:30 PM Vial 5

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.441 %	86.918 %	2.289 ppb	166.513 ppb	3,998.622 ppb	33,366.312 ppb	1,046.128 ppb	4,904.942 ppb	93.882 %
Concentration per Run 1	88.018 %	91.733 %	2.263 ppb	171.016 ppb	4,021.547 ppb	34,357.889 ppb	1,121.548 ppb	4,998.747 ppb	94.525 %
Concentration per Run 2	86.475 %	77.769 %	2.280 ppb	184.467 ppb	4,361.061 ppb	35,669.394 ppb	1,042.998 ppb	5,061.652 ppb	93.330 %
Concentration per Run 3	87.831 %	91.252 %	2.326 ppb	144.056 ppb	3,613.258 ppb	30,071.654 ppb	973.837 ppb	4,654.427 ppb	93.792 %
Concentration RSD	1.0 %	9.1 %	1.4 %	12.4 %	9.4 %	8.8 %	7.1 %	4.5 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	67.914 ppb	42.374 ppb	1,358.799 ppb	39,056.439 ppb	12.326 ppb	21.422 ppb	19.245 ppb	106.610 ppb	93.976 %
Concentration per Run 1	67.827 ppb	41.938 ppb	1,383.924 ppb	39,103.397 ppb	12.274 ppb	21.067 ppb	18.768 ppb	106.438 ppb	97.439 %
Concentration per Run 2	69.353 ppb	43.603 ppb	1,395.549 ppb	40,428.479 ppb	12.828 ppb	22.905 ppb	19.855 ppb	108.959 ppb	94.787 %
Concentration per Run 3	66.563 ppb	41.580 ppb	1,296.925 ppb	37,637.443 ppb	11.877 ppb	20.295 ppb	19.112 ppb	104.433 ppb	89.702 %
Concentration RSD	2.1 %	2.5 %	4.0 %	3.6 %	3.9 %	6.3 %	2.9 %	2.1 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.729 ppb	10.738 ppb	28.253 ppb	1.258 ppb	85.405 %	0.156 ppb	0.163 ppb	89.040 %	0.517 ppb
Concentration per Run 1	13.674 ppb	10.854 ppb	29.467 ppb	1.214 ppb	85.541 %	0.145 ppb	0.170 ppb	91.380 %	0.537 ppb
Concentration per Run 2	13.890 ppb	10.686 ppb	27.621 ppb	1.323 ppb	85.098 %	0.158 ppb	0.152 ppb	87.321 %	0.526 ppb
Concentration per Run 3	13.624 ppb	10.673 ppb	27.670 ppb	1.238 ppb	85.575 %	0.163 ppb	0.167 ppb	88.418 %	0.488 ppb
Concentration RSD	1.0 %	0.9 %	3.7 %	4.6 %	0.3 %	6.0 %	5.9 %	2.4 %	5.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	205.605 ppb	85.047 %	81.037 %	0.282 ppb	128.794 ppb	84.981 %
Concentration per Run 1	206.582 ppb	84.330 %	81.198 %	0.274 ppb	128.601 ppb	83.495 %
Concentration per Run 2	207.105 ppb	84.273 %	80.346 %	0.286 ppb	131.482 ppb	83.768 %
Concentration per Run 3	203.127 ppb	86.538 %	81.567 %	0.284 ppb	126.299 ppb	87.679 %
Concentration RSD	1.1 %	1.5 %	0.8 %	2.3 %	2.0 %	2.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 89 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/9/2023 12:57:59 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	70.526 %	74.558 %	61.418 ppb	6,467.182 ppb	6,170.822 ppb	67.428 ppb	6,556.709 ppb	6,498.897 ppb	71.900 %
Concentration per Run 1	70.565 %	78.732 %	62.120 ppb	6,436.362 ppb	6,146.340 ppb	69.146 ppb	6,597.036 ppb	6,629.996 ppb	71.154 %
Concentration per Run 2	70.441 %	70.305 %	61.332 ppb	6,664.293 ppb	6,116.259 ppb	70.257 ppb	6,656.913 ppb	6,595.782 ppb	72.913 %
Concentration per Run 3	70.571 %	74.639 %	60.802 ppb	6,300.890 ppb	6,249.867 ppb	62.880 ppb	6,416.178 ppb	6,270.914 ppb	71.632 %
Recovery Percentage 1			102.364 %	107.786 %	102.847 %	112.379 %	109.278 %	108.315 %	
Concentration RSD	0.1 %	5.7 %	1.1 %	2.8 %	1.1 %	5.9 %	1.9 %	3.0 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	61.464 ppb	60.798 ppb	61.368 ppb	6,056.230 ppb	60.641 ppb	61.330 ppb	60.868 ppb	61.657 ppb	78.325 %
Concentration per Run 1	60.621 ppb	59.769 ppb	60.553 ppb	5,945.786 ppb	59.161 ppb	58.783 ppb	58.496 ppb	60.191 ppb	83.408 %
Concentration per Run 2	60.984 ppb	61.167 ppb	61.776 ppb	6,095.795 ppb	61.067 ppb	62.566 ppb	62.310 ppb	62.599 ppb	76.940 %
Concentration per Run 3	62.786 ppb	61.459 ppb	61.774 ppb	6,127.110 ppb	61.695 ppb	62.643 ppb	61.799 ppb	62.182 ppb	74.626 %
Recovery Percentage 1	102.439 %	101.331 %	102.280 %	100.937 %	101.068 %	102.217 %	101.447 %	102.762 %	
Concentration RSD	1.9 %	1.5 %	1.1 %	1.6 %	2.2 %	3.6 %	3.4 %	2.1 %	5.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.904 ppb	61.271 ppb	62.157 ppb	58.671 ppb	75.754 %	60.111 ppb	60.530 ppb	77.845 %	59.605 ppb
Concentration per Run 1	59.416 ppb	60.354 ppb	62.652 ppb	56.932 ppb	78.077 %	58.262 ppb	58.376 ppb	83.896 %	57.907 ppb
Concentration per Run 2	60.351 ppb	60.580 ppb	61.075 ppb	58.996 ppb	75.543 %	60.464 ppb	61.409 ppb	76.222 %	60.846 ppb
Concentration per Run 3	59.944 ppb	62.879 ppb	62.743 ppb	60.085 ppb	73.643 %	61.606 ppb	61.805 ppb	73.417 %	60.062 ppb
Recovery Percentage 1	99.840 %	102.119 %	103.594 %	97.785 %		100.184 %	100.883 %		99.341 %
Concentration RSD	0.8 %	2.3 %	1.5 %	2.7 %	2.9 %	2.8 %	3.1 %	7.0 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.781 ppb	79.427 %	79.735 %	59.738 ppb	61.244 ppb	78.212 %
Concentration per Run 1	59.287 ppb	82.771 %	84.190 %	57.225 ppb	59.900 ppb	79.652 %
Concentration per Run 2	60.464 ppb	78.949 %	78.178 %	60.476 ppb	61.627 ppb	78.811 %
Concentration per Run 3	59.593 ppb	76.560 %	76.839 %	61.513 ppb	62.206 ppb	76.173 %
Recovery Percentage 1	99.635 %			99.563 %	102.074 %	
Concentration RSD	1.0 %	3.9 %	4.9 %	3.7 %	2.0 %	2.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 90 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/9/2023 1:02:32 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.433 %	71.830 %	0.006 ppb	3.371 ppb	0.067 ppb	0.390 ppb	5.329 ppb	2.488 ppb	73.497 %
Concentration per Run 1	73.238 %	74.639 %	0.004 ppb	3.413 ppb	-0.149 ppb	0.492 ppb	11.417 ppb	0.384 ppb	74.232 %
Concentration per Run 2	73.030 %	70.786 %	0.012 ppb	3.514 ppb	-0.412 ppb	0.739 ppb	1.892 ppb	1.834 ppb	72.807 %
Concentration per Run 3	74.031 %	70.064 %	0.003 ppb	3.188 ppb	0.763 ppb	-0.061 ppb	2.679 ppb	5.245 ppb	73.453 %
Recovery Percentage 1			1.278 %	3.371 %	0.096 %	3.900 %	5.329 %	2.488 %	
Concentration RSD	0.7 %	3.4 %	78.1 %	5.0 %	917.2 %	105.1 %	99.2 %	100.3 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.001 ppb	0.013 ppb	0.050 ppb	11.845 ppb	0.005 ppb	0.016 ppb	0.026 ppb	0.285 ppb	77.788 %
Concentration per Run 1	0.004 ppb	0.025 ppb	0.030 ppb	11.082 ppb	0.009 ppb	0.002 ppb	0.017 ppb	0.288 ppb	80.000 %
Concentration per Run 2	-0.009 ppb	0.003 ppb	0.055 ppb	10.921 ppb	0.003 ppb	0.016 ppb	0.028 ppb	0.252 ppb	75.885 %
Concentration per Run 3	0.007 ppb	0.012 ppb	0.064 ppb	13.531 ppb	0.003 ppb	0.030 ppb	0.032 ppb	0.315 ppb	77.478 %
Recovery Percentage 1	0.015 %	1.347 %	4.974 %	23.689 %	0.934 %	0.805 %	2.581 %	5.699 %	
Concentration RSD	1,102.9 %	82.7 %	35.9 %	12.4 %	73.8 %	87.9 %	31.2 %	11.1 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.022 ppb	0.077 ppb	0.002 ppb	0.136 ppb	77.483 %	0.003 ppb	0.001 ppb	78.944 %	0.034 ppb
Concentration per Run 1	0.026 ppb	0.116 ppb	0.002 ppb	0.151 ppb	77.627 %	0.005 ppb	0.000 ppb	82.189 %	0.024 ppb
Concentration per Run 2	0.036 ppb	0.058 ppb	0.000 ppb	0.162 ppb	76.372 %	0.003 ppb	0.003 ppb	76.567 %	0.039 ppb
Concentration per Run 3	0.005 ppb	0.058 ppb	0.005 ppb	0.095 ppb	78.449 %	0.002 ppb	0.001 ppb	78.076 %	0.039 ppb
Recovery Percentage 1	4.442 %	1.544 %	0.021 %	6.798 %		0.847 %	0.553 %		0.849 %
Concentration RSD	71.8 %	43.1 %	115.8 %	26.6 %	1.3 %	35.9 %	143.7 %	3.7 %	24.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.024 ppb	80.771 %	81.457 %	0.330 ppb	0.010 ppb	82.936 %
Concentration per Run 1	0.022 ppb	79.815 %	81.540 %	0.331 ppb	0.009 ppb	81.842 %
Concentration per Run 2	0.019 ppb	81.195 %	81.148 %	0.369 ppb	0.011 ppb	81.813 %
Concentration per Run 3	0.031 ppb	81.303 %	81.683 %	0.291 ppb	0.011 ppb	85.154 %
Recovery Percentage 1	4.800 %			33.034 %	1.046 %	
Concentration RSD	25.4 %	1.0 %	0.3 %	11.8 %	9.5 %	2.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 91 User name ALPHALAB\la2-icpmsq2 Comment CCV/MCCV
 Analysis label: CCV Rack 0
 Analysis started at: 8/9/2023 1:10:36 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	72.337 %	78.090 %	61.147 ppb	6,187.176 ppb	6,331.344 ppb	63.530 ppb	6,379.552 ppb	6,304.623 ppb	75.227 %
Concentration per Run 1	72.943 %	84.751 %	60.008 ppb	5,758.055 ppb	5,901.610 ppb	60.534 ppb	6,189.427 ppb	6,113.850 ppb	76.009 %
Concentration per Run 2	72.281 %	71.509 %	61.960 ppb	6,662.337 ppb	6,787.655 ppb	70.649 ppb	6,604.649 ppb	6,434.462 ppb	74.324 %
Concentration per Run 3	71.787 %	78.009 %	61.472 ppb	6,141.135 ppb	6,304.765 ppb	59.406 ppb	6,344.581 ppb	6,365.556 ppb	75.348 %
Recovery Percentage 1			101.911 %	103.120 %	105.522 %	105.883 %	106.326 %	105.077 %	
Concentration RSD	0.8 %	8.5 %	1.7 %	7.3 %	7.0 %	9.7 %	3.3 %	2.7 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.317 ppb	59.573 ppb	59.860 ppb	5,937.346 ppb	59.425 ppb	61.051 ppb	59.835 ppb	61.922 ppb	76.813 %
Concentration per Run 1	55.434 ppb	55.639 ppb	55.418 ppb	5,598.646 ppb	56.510 ppb	58.055 ppb	56.958 ppb	59.312 ppb	77.739 %
Concentration per Run 2	63.449 ppb	63.125 ppb	63.920 ppb	6,214.422 ppb	62.039 ppb	63.158 ppb	62.241 ppb	63.960 ppb	75.629 %
Concentration per Run 3	59.067 ppb	59.954 ppb	60.241 ppb	5,998.969 ppb	59.725 ppb	61.940 ppb	60.306 ppb	62.495 ppb	77.069 %
Recovery Percentage 1	98.861 %	99.288 %	99.766 %	98.956 %	99.041 %	101.752 %	99.725 %	103.204 %	
Concentration RSD	6.8 %	6.3 %	7.1 %	5.3 %	4.7 %	4.4 %	4.5 %	3.8 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.054 ppb	60.772 ppb	62.066 ppb	59.784 ppb	74.673 %	60.211 ppb	60.336 ppb	76.762 %	60.581 ppb
Concentration per Run 1	58.399 ppb	60.059 ppb	60.325 ppb	58.731 ppb	73.649 %	59.440 ppb	59.565 ppb	75.286 %	59.278 ppb
Concentration per Run 2	61.606 ppb	60.679 ppb	63.033 ppb	59.393 ppb	75.238 %	60.619 ppb	60.863 ppb	76.763 %	61.294 ppb
Concentration per Run 3	60.158 ppb	61.577 ppb	62.840 ppb	61.226 ppb	75.133 %	60.576 ppb	60.579 ppb	78.238 %	61.172 ppb
Recovery Percentage 1	100.091 %	101.286 %	103.443 %	99.639 %		100.352 %	100.560 %		100.969 %
Concentration RSD	2.7 %	1.3 %	2.4 %	2.2 %	1.2 %	1.1 %	1.1 %	1.9 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	60.709 ppb	79.650 %	80.176 %	60.085 ppb	61.396 ppb	79.505 %
Concentration per Run 1	59.431 ppb	76.879 %	76.218 %	57.892 ppb	60.100 ppb	76.888 %
Concentration per Run 2	61.083 ppb	81.015 %	81.852 %	60.435 ppb	61.477 ppb	79.769 %
Concentration per Run 3	61.611 ppb	81.056 %	82.458 %	61.929 ppb	62.611 ppb	81.859 %
Recovery Percentage 1	101.181 %			100.142 %	102.327 %	
Concentration RSD	1.9 %	3.0 %	4.3 %	3.4 %	2.0 %	3.1 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 92 User name ALPHALAB\la2-icpmsq2 Comment CCB
 Analysis label: CCB Rack 0
 Analysis started at: 8/9/2023 1:15:09 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.548 %	79.454 %	0.015 ppb	3.136 ppb	0.010 ppb	0.148 ppb	1.310 ppb	-1.899 ppb	73.581 %
Concentration per Run 1	74.798 %	78.973 %	0.013 ppb	3.043 ppb	0.381 ppb	0.055 ppb	5.004 ppb	-1.854 ppb	74.899 %
Concentration per Run 2	74.866 %	79.213 %	0.019 ppb	4.075 ppb	0.089 ppb	0.352 ppb	-0.614 ppb	-1.948 ppb	72.974 %
Concentration per Run 3	73.981 %	80.176 %	0.012 ppb	2.289 ppb	-0.440 ppb	0.037 ppb	-0.460 ppb	-1.895 ppb	72.869 %
Recovery Percentage 1			2.952 %	3.136 %	0.014 %	1.482 %	1.310 %	-1.899 %	
Concentration RSD	0.7 %	0.8 %	26.5 %	28.6 %	4,240.4 %	119.6 %	244.2 %	2.5 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.009 ppb	0.002 ppb	0.061 ppb	8.138 ppb	0.001 ppb	0.049 ppb	0.025 ppb	0.257 ppb	78.266 %
Concentration per Run 1	-0.018 ppb	0.016 ppb	0.064 ppb	8.938 ppb	-0.002 ppb	0.054 ppb	0.023 ppb	0.237 ppb	75.015 %
Concentration per Run 2	-0.013 ppb	-0.004 ppb	0.038 ppb	7.027 ppb	0.000 ppb	0.020 ppb	0.034 ppb	0.256 ppb	81.941 %
Concentration per Run 3	0.004 ppb	-0.005 ppb	0.081 ppb	8.450 ppb	0.005 ppb	0.071 ppb	0.017 ppb	0.279 ppb	77.841 %
Recovery Percentage 1	-0.177 %	0.234 %	6.086 %	16.276 %	0.222 %	2.425 %	2.486 %	5.144 %	
Concentration RSD	126.6 %	492.9 %	35.9 %	12.2 %	285.5 %	53.7 %	34.7 %	8.2 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.016 ppb	0.024 ppb	0.004 ppb	0.147 ppb	77.802 %	0.003 ppb	0.002 ppb	79.770 %	0.041 ppb
Concentration per Run 1	0.001 ppb	0.033 ppb	0.005 ppb	0.161 ppb	77.265 %	0.005 ppb	0.003 ppb	76.400 %	0.041 ppb
Concentration per Run 2	0.036 ppb	0.029 ppb	0.003 ppb	0.201 ppb	78.554 %	0.004 ppb	0.003 ppb	84.076 %	0.039 ppb
Concentration per Run 3	0.012 ppb	0.011 ppb	0.003 ppb	0.079 ppb	77.587 %	0.002 ppb	0.002 ppb	78.835 %	0.042 ppb
Recovery Percentage 1	3.293 %	0.484 %	0.036 %	7.349 %		0.842 %	1.203 %		1.014 %
Concentration RSD	108.0 %	48.8 %	25.4 %	42.5 %	0.9 %	45.1 %	23.8 %	4.9 %	3.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.012 ppb	82.098 %	83.256 %	0.343 ppb	0.007 ppb	84.956 %
Concentration per Run 1	0.007 ppb	80.213 %	80.261 %	0.340 ppb	0.008 ppb	83.150 %
Concentration per Run 2	0.025 ppb	83.730 %	87.031 %	0.397 ppb	0.007 ppb	85.055 %
Concentration per Run 3	0.003 ppb	82.351 %	82.475 %	0.293 ppb	0.006 ppb	86.664 %
Recovery Percentage 1	2.303 %			34.328 %	0.726 %	
Concentration RSD	104.1 %	2.2 %	4.1 %	15.2 %	11.6 %	2.1 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 93 User name ALPHALAB\alpha2-icpmsq2 Comment <Comment>
 Analysis label: WG1813612-3D10 6020TS Rack 1
 Analysis started at: 8/9/2023 1:19:42 PM Vial 60

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.928 %	88.042 %	11.276 ppb	2,297.896 ppb	8,200.163 ppb	30,198.846 ppb	3,272.161 ppb	4,184.319 ppb	101.697 %
Concentration per Run 1	83.334 %	86.437 %	11.033 ppb	2,308.263 ppb	8,144.682 ppb	29,659.886 ppb	3,244.507 ppb	4,072.757 ppb	102.701 %
Concentration per Run 2	82.528 %	91.011 %	11.599 ppb	2,287.207 ppb	8,237.624 ppb	30,543.985 ppb	3,270.924 ppb	4,150.686 ppb	100.830 %
Concentration per Run 3	82.921 %	86.677 %	11.197 ppb	2,298.219 ppb	8,218.183 ppb	30,392.666 ppb	3,301.051 ppb	4,329.516 ppb	101.560 %
Concentration RSD	0.5 %	2.9 %	2.6 %	0.5 %	0.6 %	1.6 %	0.9 %	3.1 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	181.941 ppb	96.132 ppb	295.211 ppb	49,219.431 ppb	104.839 ppb	119.681 ppb	69.436 ppb	167.815 ppb	88.205 %
Concentration per Run 1	180.247 ppb	94.078 ppb	289.217 ppb	47,969.260 ppb	102.035 ppb	117.251 ppb	67.633 ppb	163.381 ppb	89.863 %
Concentration per Run 2	182.960 ppb	97.165 ppb	299.683 ppb	50,497.070 ppb	107.644 ppb	121.609 ppb	71.295 ppb	172.505 ppb	86.141 %
Concentration per Run 3	182.614 ppb	97.153 ppb	296.733 ppb	49,191.962 ppb	104.837 ppb	120.185 ppb	69.381 ppb	167.561 ppb	88.610 %
Concentration RSD	0.8 %	1.9 %	1.8 %	2.6 %	2.7 %	1.9 %	2.6 %	2.7 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	37.952 ppb	28.958 ppb	226.285 ppb	198.033 ppb	81.559 %	10.289 ppb	10.859 ppb	84.636 %	92.150 ppb
Concentration per Run 1	37.060 ppb	28.110 ppb	220.147 ppb	192.498 ppb	81.596 %	10.232 ppb	11.050 ppb	83.434 %	90.700 ppb
Concentration per Run 2	38.740 ppb	30.343 ppb	231.973 ppb	202.010 ppb	81.500 %	10.267 ppb	10.595 ppb	85.090 %	92.796 ppb
Concentration per Run 3	38.055 ppb	28.422 ppb	226.735 ppb	199.590 ppb	81.582 %	10.368 ppb	10.933 ppb	85.385 %	92.952 ppb
Concentration RSD	2.2 %	4.2 %	2.6 %	2.5 %	0.1 %	0.7 %	2.2 %	1.2 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	552.666 ppb	82.430 %	80.445 %	24.941 ppb	150.922 ppb	83.835 %
Concentration per Run 1	553.116 ppb	81.170 %	79.294 %	24.070 ppb	149.013 ppb	81.723 %
Concentration per Run 2	547.828 ppb	82.415 %	80.282 %	25.225 ppb	151.407 ppb	84.020 %
Concentration per Run 3	557.054 ppb	83.706 %	81.760 %	25.528 ppb	152.345 ppb	85.761 %
Concentration RSD	0.8 %	1.5 %	1.5 %	3.1 %	1.1 %	2.4 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 94 User name: ALPHALAB\alpha2-icpmsq2 Comment: <Comment>
 Analysis label: WG1813612-5D10 6020TS Rack: 2
 Analysis started at: 8/9/2023 1:24:13 PM Vial: 2

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.329 %	82.263 %	47.644 ppb	5,235.801 ppb	11,611.781 ppb	30,314.332 ppb	6,308.728 ppb	7,320.805 ppb	98.292 %
Concentration per Run 1	79.938 %	83.306 %	47.306 ppb	5,146.871 ppb	11,372.654 ppb	29,602.709 ppb	6,149.193 ppb	7,061.602 ppb	99.610 %
Concentration per Run 2	79.506 %	81.380 %	48.659 ppb	5,308.783 ppb	11,718.196 ppb	30,223.448 ppb	6,300.315 ppb	7,307.178 ppb	97.922 %
Concentration per Run 3	78.543 %	82.103 %	46.966 ppb	5,251.749 ppb	11,744.494 ppb	31,116.840 ppb	6,476.676 ppb	7,593.634 ppb	97.345 %
Concentration RSD	0.9 %	1.2 %	1.9 %	1.6 %	1.8 %	2.5 %	2.6 %	3.6 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	125.543 ppb	103.332 ppb	232.317 ppb	49,033.696 ppb	55.586 ppb	71.189 ppb	66.656 ppb	119.432 ppb	85.170 %
Concentration per Run 1	121.396 ppb	99.993 ppb	227.550 ppb	47,663.170 ppb	53.737 ppb	70.931 ppb	66.794 ppb	118.955 ppb	83.898 %
Concentration per Run 2	127.327 ppb	104.763 ppb	237.619 ppb	49,753.806 ppb	56.540 ppb	71.675 ppb	66.173 ppb	118.110 ppb	87.404 %
Concentration per Run 3	127.907 ppb	105.241 ppb	231.782 ppb	49,684.112 ppb	56.482 ppb	70.960 ppb	67.001 ppb	121.231 ppb	84.208 %
Concentration RSD	2.9 %	2.8 %	2.2 %	2.4 %	2.9 %	0.6 %	0.6 %	1.4 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.632 ppb	55.216 ppb	70.372 ppb	51.475 ppb	77.817 %	1.647 ppb	48.291 ppb	81.409 %	49.706 ppb
Concentration per Run 1	59.065 ppb	56.013 ppb	68.932 ppb	50.438 ppb	78.252 %	1.618 ppb	46.968 ppb	81.388 %	48.112 ppb
Concentration per Run 2	58.429 ppb	54.200 ppb	70.235 ppb	50.988 ppb	77.231 %	1.673 ppb	49.233 ppb	80.279 %	50.992 ppb
Concentration per Run 3	61.402 ppb	55.435 ppb	71.949 ppb	53.000 ppb	77.967 %	1.649 ppb	48.671 ppb	82.560 %	50.015 ppb
Concentration RSD	2.6 %	1.7 %	2.2 %	2.6 %	0.7 %	1.7 %	2.4 %	1.4 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	169.860 ppb	79.482 %	77.285 %	50.452 ppb	83.167 ppb	80.036 %
Concentration per Run 1	164.053 ppb	77.169 %	74.658 %	47.982 ppb	81.621 ppb	77.901 %
Concentration per Run 2	175.095 ppb	79.757 %	78.484 %	51.485 ppb	84.044 ppb	79.879 %
Concentration per Run 3	170.432 ppb	81.519 %	78.713 %	51.889 ppb	83.837 ppb	82.329 %
Concentration RSD	3.3 %	2.8 %	2.9 %	4.3 %	1.6 %	2.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 95 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1813612-4D10 6020TS Rack 2
 Analysis started at: 8/9/2023 1:28:42 PM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.095 %	82.103 %	1.676 ppb	233.577 ppb	6,471.769 ppb	29,510.887 ppb	1,146.051 ppb	2,271.011 ppb	101.943 %
Concentration per Run 1	82.102 %	79.936 %	1.732 ppb	247.684 ppb	6,348.040 ppb	28,999.069 ppb	1,167.426 ppb	2,320.953 ppb	102.260 %
Concentration per Run 2	81.860 %	75.602 %	1.607 ppb	240.020 ppb	6,984.297 ppb	31,802.364 ppb	1,225.031 ppb	2,384.732 ppb	101.677 %
Concentration per Run 3	82.324 %	90.770 %	1.691 ppb	213.026 ppb	6,082.970 ppb	27,731.227 ppb	1,045.696 ppb	2,107.348 ppb	101.891 %
Concentration RSD	0.3 %	9.5 %	3.8 %	7.8 %	7.2 %	7.1 %	8.0 %	6.4 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	83.730 ppb	58.390 ppb	206.518 ppb	49,722.953 ppb	9.628 ppb	25.121 ppb	21.094 ppb	74.108 ppb	89.772 %
Concentration per Run 1	82.524 ppb	57.551 ppb	202.414 ppb	48,838.375 ppb	9.302 ppb	24.505 ppb	20.527 ppb	72.824 ppb	89.025 %
Concentration per Run 2	86.870 ppb	61.520 ppb	216.906 ppb	52,061.287 ppb	10.147 ppb	26.078 ppb	21.873 ppb	76.064 ppb	88.422 %
Concentration per Run 3	81.797 ppb	56.101 ppb	200.233 ppb	48,269.196 ppb	9.436 ppb	24.781 ppb	20.883 ppb	73.437 ppb	91.870 %
Concentration RSD	3.3 %	4.8 %	4.4 %	4.1 %	4.7 %	3.3 %	3.3 %	2.3 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	16.387 ppb	9.052 ppb	18.620 ppb	1.507 ppb	81.933 %	0.021 ppb	0.069 ppb	85.852 %	0.561 ppb
Concentration per Run 1	16.440 ppb	9.197 ppb	18.174 ppb	1.452 ppb	81.521 %	0.021 ppb	0.068 ppb	85.566 %	0.521 ppb
Concentration per Run 2	16.796 ppb	9.110 ppb	18.904 ppb	1.519 ppb	82.317 %	0.020 ppb	0.061 ppb	84.784 %	0.565 ppb
Concentration per Run 3	15.925 ppb	8.848 ppb	18.782 ppb	1.550 ppb	81.961 %	0.021 ppb	0.077 ppb	87.205 %	0.595 ppb
Concentration RSD	2.7 %	2.0 %	2.1 %	3.3 %	0.5 %	4.1 %	11.5 %	1.4 %	6.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	127.444 ppb	81.085 %	77.998 %	0.600 ppb	33.176 ppb	83.311 %
Concentration per Run 1	123.670 ppb	78.849 %	76.026 %	0.557 ppb	32.311 ppb	80.970 %
Concentration per Run 2	128.221 ppb	81.177 %	78.335 %	0.658 ppb	33.609 ppb	83.295 %
Concentration per Run 3	130.442 ppb	83.229 %	79.635 %	0.586 ppb	33.608 ppb	85.666 %
Concentration RSD	2.7 %	2.7 %	2.3 %	8.6 %	2.3 %	2.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 96 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-01D10 6020TS Rack 1
 Analysis started at: 8/9/2023 1:33:11 PM Vial 59

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.456 %	90.048 %	1.444 ppb	211.235 ppb	6,021.405 ppb	27,927.261 ppb	1,108.561 ppb	2,223.673 ppb	102.410 %
Concentration per Run 1	81.633 %	83.066 %	1.457 ppb	216.351 ppb	6,123.876 ppb	28,307.069 ppb	1,111.123 ppb	2,182.470 ppb	104.133 %
Concentration per Run 2	81.516 %	92.697 %	1.473 ppb	211.454 ppb	6,111.391 ppb	27,887.601 ppb	1,115.726 ppb	2,357.851 ppb	100.563 %
Concentration per Run 3	81.219 %	94.382 %	1.402 ppb	205.901 ppb	5,828.947 ppb	27,587.112 ppb	1,098.834 ppb	2,130.697 ppb	102.535 %
Concentration RSD	0.3 %	6.8 %	2.6 %	2.5 %	2.8 %	1.3 %	0.8 %	5.4 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	73.852 ppb	54.114 ppb	175.354 ppb	42,589.160 ppb	8.484 ppb	23.856 ppb	19.681 ppb	71.437 ppb	89.804 %
Concentration per Run 1	72.328 ppb	53.299 ppb	175.449 ppb	41,630.168 ppb	8.422 ppb	23.381 ppb	19.237 ppb	70.396 ppb	89.740 %
Concentration per Run 2	76.594 ppb	56.435 ppb	182.392 ppb	44,150.824 ppb	8.627 ppb	25.365 ppb	20.503 ppb	74.005 ppb	86.507 %
Concentration per Run 3	72.633 ppb	52.609 ppb	168.221 ppb	41,986.489 ppb	8.404 ppb	22.822 ppb	19.304 ppb	69.912 ppb	93.165 %
Concentration RSD	3.2 %	3.8 %	4.0 %	3.2 %	1.5 %	5.6 %	3.6 %	3.1 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.242 ppb	8.276 ppb	18.540 ppb	1.134 ppb	81.062 %	0.018 ppb	0.064 ppb	82.200 %	0.399 ppb
Concentration per Run 1	12.815 ppb	7.971 ppb	17.928 ppb	1.045 ppb	78.361 %	0.021 ppb	0.053 ppb	77.974 %	0.386 ppb
Concentration per Run 2	13.772 ppb	8.999 ppb	19.182 ppb	1.147 ppb	81.831 %	0.019 ppb	0.074 ppb	84.297 %	0.413 ppb
Concentration per Run 3	13.139 ppb	7.858 ppb	18.510 ppb	1.208 ppb	82.993 %	0.016 ppb	0.066 ppb	84.328 %	0.400 ppb
Concentration RSD	3.7 %	7.6 %	3.4 %	7.3 %	3.0 %	15.2 %	16.8 %	4.5 %	3.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	115.409 ppb	78.805 %	76.074 %	0.354 ppb	30.439 ppb	81.397 %
Concentration per Run 1	112.195 ppb	74.482 %	71.868 %	0.314 ppb	30.102 ppb	77.252 %
Concentration per Run 2	117.092 ppb	79.997 %	76.637 %	0.374 ppb	30.562 ppb	82.239 %
Concentration per Run 3	116.942 ppb	81.938 %	79.716 %	0.373 ppb	30.652 ppb	84.701 %
Concentration RSD	2.4 %	4.9 %	5.2 %	9.7 %	1.0 %	4.7 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 97 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-04D10 6020TS Rack 2
 Analysis started at: 8/9/2023 1:37:41 PM Vial 6

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.947 %	79.695 %	0.927 ppb	137.053 ppb	4,013.752 ppb	39,695.701 ppb	1,306.777 ppb	1,964.706 ppb	96.418 %
Concentration per Run 1	78.606 %	84.510 %	0.929 ppb	128.903 ppb	3,791.692 ppb	37,686.620 ppb	1,252.338 ppb	1,927.174 ppb	97.123 %
Concentration per Run 2	78.595 %	71.509 %	0.957 ppb	147.502 ppb	4,315.458 ppb	42,504.650 ppb	1,387.519 ppb	2,029.340 ppb	95.813 %
Concentration per Run 3	79.640 %	83.066 %	0.894 ppb	134.754 ppb	3,934.106 ppb	38,895.833 ppb	1,280.475 ppb	1,937.604 ppb	96.318 %
Concentration RSD	0.8 %	8.9 %	3.4 %	6.9 %	6.7 %	6.3 %	5.5 %	2.9 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	100.511 ppb	70.370 ppb	179.421 ppb	75,388.153 ppb	6.700 ppb	18.564 ppb	21.276 ppb	55.021 ppb	84.410 %
Concentration per Run 1	96.347 ppb	67.798 ppb	174.646 ppb	73,482.046 ppb	6.516 ppb	18.535 ppb	20.913 ppb	53.887 ppb	82.301 %
Concentration per Run 2	103.601 ppb	73.300 ppb	185.965 ppb	79,145.061 ppb	7.048 ppb	19.347 ppb	21.954 ppb	56.735 ppb	84.968 %
Concentration per Run 3	101.584 ppb	70.014 ppb	177.651 ppb	73,537.353 ppb	6.535 ppb	17.811 ppb	20.961 ppb	54.442 ppb	85.961 %
Concentration RSD	3.7 %	3.9 %	3.3 %	4.3 %	4.5 %	4.1 %	2.8 %	2.7 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	15.230 ppb	4.301 ppb	21.204 ppb	1.547 ppb	79.979 %	0.030 ppb	0.033 ppb	83.314 %	0.474 ppb
Concentration per Run 1	14.599 ppb	4.265 ppb	20.430 ppb	1.545 ppb	78.285 %	0.029 ppb	0.044 ppb	80.714 %	0.475 ppb
Concentration per Run 2	15.419 ppb	4.212 ppb	21.563 ppb	1.481 ppb	80.788 %	0.030 ppb	0.024 ppb	84.045 %	0.478 ppb
Concentration per Run 3	15.672 ppb	4.427 ppb	21.619 ppb	1.614 ppb	80.865 %	0.030 ppb	0.031 ppb	85.184 %	0.468 ppb
Concentration RSD	3.7 %	2.6 %	3.2 %	4.3 %	1.8 %	3.1 %	31.9 %	2.8 %	1.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	126.789 ppb	76.311 %	74.398 %	0.355 ppb	24.812 ppb	80.738 %
Concentration per Run 1	123.230 ppb	73.084 %	71.006 %	0.320 ppb	24.521 ppb	77.280 %
Concentration per Run 2	128.177 ppb	77.087 %	74.762 %	0.372 ppb	24.993 ppb	81.392 %
Concentration per Run 3	128.961 ppb	78.761 %	77.426 %	0.372 ppb	24.921 ppb	83.543 %
Concentration RSD	2.5 %	3.8 %	4.3 %	8.4 %	1.0 %	3.9 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 98 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-05D10 6020TS Rack 2
 Analysis started at: 8/9/2023 1:42:11 PM Vial 7

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.893 %	76.806 %	0.936 ppb	100.936 ppb	3,646.243 ppb	37,573.506 ppb	1,060.654 ppb	1,574.878 ppb	93.482 %
Concentration per Run 1	78.062 %	73.676 %	0.910 ppb	105.499 ppb	3,632.598 ppb	37,081.278 ppb	1,042.444 ppb	1,578.861 ppb	93.551 %
Concentration per Run 2	78.672 %	74.398 %	0.909 ppb	98.740 ppb	3,772.174 ppb	38,660.333 ppb	1,114.181 ppb	1,652.401 ppb	95.459 %
Concentration per Run 3	76.946 %	82.343 %	0.989 ppb	98.569 ppb	3,533.955 ppb	36,978.908 ppb	1,025.336 ppb	1,493.372 ppb	91.437 %
Concentration RSD	1.1 %	6.3 %	4.9 %	3.9 %	3.3 %	2.5 %	4.4 %	5.1 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	81.641 ppb	58.373 ppb	211.917 ppb	50,943.250 ppb	7.335 ppb	17.151 ppb	19.588 ppb	51.411 ppb	84.267 %
Concentration per Run 1	80.568 ppb	58.812 ppb	209.807 ppb	51,117.393 ppb	7.233 ppb	17.179 ppb	20.133 ppb	51.706 ppb	78.208 %
Concentration per Run 2	82.528 ppb	57.777 ppb	215.634 ppb	50,833.845 ppb	7.335 ppb	17.203 ppb	19.575 ppb	52.040 ppb	87.409 %
Concentration per Run 3	81.829 ppb	58.528 ppb	210.311 ppb	50,878.512 ppb	7.438 ppb	17.070 ppb	19.055 ppb	50.486 ppb	87.184 %
Concentration RSD	1.2 %	0.9 %	1.5 %	0.3 %	1.4 %	0.4 %	2.8 %	1.6 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.962 ppb	5.137 ppb	14.341 ppb	1.200 ppb	80.648 %	0.030 ppb	0.067 ppb	83.320 %	0.394 ppb
Concentration per Run 1	10.770 ppb	5.357 ppb	14.180 ppb	1.207 ppb	79.315 %	0.028 ppb	0.065 ppb	81.451 %	0.382 ppb
Concentration per Run 2	11.078 ppb	5.001 ppb	14.212 ppb	1.141 ppb	82.093 %	0.026 ppb	0.069 ppb	84.067 %	0.412 ppb
Concentration per Run 3	11.039 ppb	5.055 ppb	14.630 ppb	1.252 ppb	80.537 %	0.036 ppb	0.067 ppb	84.443 %	0.389 ppb
Concentration RSD	1.5 %	3.7 %	1.7 %	4.7 %	1.7 %	18.0 %	3.4 %	2.0 %	4.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	114.284 ppb	76.446 %	74.557 %	0.318 ppb	24.057 ppb	80.339 %
Concentration per Run 1	110.149 ppb	74.229 %	71.612 %	0.290 ppb	23.642 ppb	77.934 %
Concentration per Run 2	116.023 ppb	76.436 %	74.951 %	0.331 ppb	24.253 ppb	80.488 %
Concentration per Run 3	116.681 ppb	78.674 %	77.110 %	0.334 ppb	24.276 ppb	82.596 %
Concentration RSD	3.1 %	2.9 %	3.7 %	7.7 %	1.5 %	2.9 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 99 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-06D10 6020TS Rack 2
 Analysis started at: 8/9/2023 1:46:40 PM Vial 8

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.654 %	78.090 %	0.894 ppb	98.128 ppb	4,422.871 ppb	26,416.211 ppb	732.490 ppb	1,963.233 ppb	89.340 %
Concentration per Run 1	77.991 %	80.176 %	0.908 ppb	93.103 ppb	4,276.158 ppb	25,158.228 ppb	694.477 ppb	1,873.722 ppb	88.817 %
Concentration per Run 2	77.845 %	77.287 %	0.896 ppb	100.088 ppb	4,467.107 ppb	27,319.218 ppb	737.762 ppb	2,042.720 ppb	91.335 %
Concentration per Run 3	77.126 %	76.806 %	0.879 ppb	101.192 ppb	4,525.347 ppb	26,771.187 ppb	765.230 ppb	1,973.257 ppb	87.869 %
Concentration RSD	0.6 %	2.3 %	1.6 %	4.5 %	2.9 %	4.3 %	4.9 %	4.3 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	70.862 ppb	50.534 ppb	294.723 ppb	41,458.971 ppb	9.054 ppb	18.442 ppb	16.439 ppb	63.557 ppb	84.946 %
Concentration per Run 1	70.521 ppb	51.101 ppb	291.338 ppb	41,431.734 ppb	9.001 ppb	19.334 ppb	16.971 ppb	64.095 ppb	82.205 %
Concentration per Run 2	70.017 ppb	49.330 ppb	293.113 ppb	40,970.040 ppb	8.978 ppb	17.414 ppb	16.217 ppb	63.188 ppb	88.041 %
Concentration per Run 3	72.050 ppb	51.173 ppb	299.720 ppb	41,975.139 ppb	9.183 ppb	18.577 ppb	16.130 ppb	63.388 ppb	84.591 %
Concentration RSD	1.5 %	2.1 %	1.5 %	1.2 %	1.2 %	5.2 %	2.8 %	0.7 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	21.567 ppb	4.997 ppb	10.751 ppb	1.086 ppb	81.128 %	0.076 ppb	0.210 ppb	83.010 %	0.482 ppb
Concentration per Run 1	21.699 ppb	4.642 ppb	10.953 ppb	1.151 ppb	80.300 %	0.080 ppb	0.216 ppb	79.712 %	0.477 ppb
Concentration per Run 2	21.549 ppb	5.270 ppb	10.681 ppb	1.114 ppb	82.105 %	0.077 ppb	0.208 ppb	84.725 %	0.469 ppb
Concentration per Run 3	21.454 ppb	5.078 ppb	10.618 ppb	0.995 ppb	80.980 %	0.070 ppb	0.207 ppb	84.593 %	0.502 ppb
Concentration RSD	0.6 %	6.4 %	1.7 %	7.5 %	1.1 %	6.6 %	2.1 %	3.4 %	3.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	77.576 ppb	77.939 %	75.764 %	0.248 ppb	48.664 ppb	79.366 %
Concentration per Run 1	76.852 ppb	73.804 %	71.235 %	0.236 ppb	49.307 ppb	74.144 %
Concentration per Run 2	78.100 ppb	78.768 %	76.771 %	0.251 ppb	49.102 ppb	80.491 %
Concentration per Run 3	77.777 ppb	81.243 %	79.287 %	0.257 ppb	47.583 ppb	83.462 %
Concentration RSD	0.8 %	4.9 %	5.4 %	4.4 %	1.9 %	6.0 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 100 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-07D10 6020TS Rack 2
 Analysis started at: 8/9/2023 1:51:10 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.225 %	76.003 %	0.831 ppb	103.932 ppb	3,853.995 ppb	23,824.550 ppb	616.523 ppb	927.370 ppb	88.039 %
Concentration per Run 1	76.567 %	73.676 %	0.813 ppb	101.423 ppb	3,713.088 ppb	22,959.005 ppb	633.557 ppb	944.105 ppb	89.755 %
Concentration per Run 2	76.003 %	74.639 %	0.891 ppb	106.619 ppb	4,070.562 ppb	24,800.553 ppb	607.523 ppb	910.628 ppb	86.237 %
Concentration per Run 3	76.106 %	79.695 %	0.789 ppb	103.755 ppb	3,778.335 ppb	23,714.094 ppb	608.488 ppb	927.378 ppb	88.125 %
Concentration RSD	0.4 %	4.3 %	6.4 %	2.5 %	4.9 %	3.9 %	2.4 %	1.8 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	66.107 ppb	41.214 ppb	148.280 ppb	41,833.390 ppb	6.324 ppb	16.229 ppb	11.382 ppb	53.671 ppb	84.350 %
Concentration per Run 1	66.358 ppb	41.294 ppb	145.859 ppb	42,065.884 ppb	6.546 ppb	16.407 ppb	11.807 ppb	55.042 ppb	79.285 %
Concentration per Run 2	67.840 ppb	41.925 ppb	150.324 ppb	42,128.028 ppb	6.219 ppb	16.253 ppb	11.304 ppb	53.023 ppb	87.095 %
Concentration per Run 3	64.123 ppb	40.425 ppb	148.657 ppb	41,306.259 ppb	6.207 ppb	16.026 ppb	11.035 ppb	52.947 ppb	86.671 %
Concentration RSD	2.8 %	1.8 %	1.5 %	1.1 %	3.0 %	1.2 %	3.4 %	2.2 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	9.779 ppb	4.338 ppb	9.715 ppb	1.011 ppb	80.063 %	0.019 ppb	0.054 ppb	82.698 %	0.288 ppb
Concentration per Run 1	10.241 ppb	4.466 ppb	9.686 ppb	1.048 ppb	79.318 %	0.018 ppb	0.043 ppb	80.788 %	0.294 ppb
Concentration per Run 2	9.632 ppb	4.512 ppb	9.758 ppb	0.978 ppb	79.719 %	0.017 ppb	0.059 ppb	84.014 %	0.285 ppb
Concentration per Run 3	9.463 ppb	4.037 ppb	9.702 ppb	1.005 ppb	81.151 %	0.022 ppb	0.059 ppb	83.293 %	0.284 ppb
Concentration RSD	4.2 %	6.0 %	0.4 %	3.5 %	1.2 %	14.0 %	17.2 %	2.0 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	66.924 ppb	78.013 %	76.221 %	0.222 ppb	22.381 ppb	81.416 %
Concentration per Run 1	64.730 ppb	75.189 %	72.892 %	0.201 ppb	22.180 ppb	78.656 %
Concentration per Run 2	67.429 ppb	78.893 %	77.208 %	0.231 ppb	22.359 ppb	81.910 %
Concentration per Run 3	68.613 ppb	79.956 %	78.562 %	0.233 ppb	22.604 ppb	83.680 %
Concentration RSD	3.0 %	3.2 %	3.9 %	7.9 %	1.0 %	3.1 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 101 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-08D10 6020TS Rack 2
 Analysis started at: 8/9/2023 1:55:39 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.849 %	78.009 %	0.925 ppb	102.949 ppb	3,627.290 ppb	28,421.310 ppb	584.223 ppb	1,690.545 ppb	86.811 %
Concentration per Run 1	77.291 %	78.973 %	0.903 ppb	95.101 ppb	3,473.825 ppb	27,203.450 ppb	581.478 ppb	1,645.079 ppb	86.559 %
Concentration per Run 2	76.549 %	75.120 %	0.926 ppb	112.414 ppb	3,775.067 ppb	29,874.103 ppb	607.093 ppb	1,706.589 ppb	86.339 %
Concentration per Run 3	76.707 %	79.936 %	0.945 ppb	101.331 ppb	3,632.978 ppb	28,186.376 ppb	564.098 ppb	1,719.968 ppb	87.536 %
Concentration RSD	0.5 %	3.3 %	2.3 %	8.5 %	4.2 %	4.8 %	3.7 %	2.4 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	72.234 ppb	47.651 ppb	378.392 ppb	41,688.896 ppb	9.526 ppb	16.332 ppb	13.702 ppb	56.993 ppb	82.918 %
Concentration per Run 1	71.358 ppb	47.429 ppb	377.824 ppb	41,647.236 ppb	9.678 ppb	16.788 ppb	14.373 ppb	57.719 ppb	77.876 %
Concentration per Run 2	75.456 ppb	49.527 ppb	387.587 ppb	42,758.036 ppb	9.785 ppb	16.289 ppb	13.464 ppb	57.553 ppb	84.303 %
Concentration per Run 3	69.889 ppb	45.997 ppb	369.764 ppb	40,661.417 ppb	9.114 ppb	15.919 ppb	13.267 ppb	55.707 ppb	86.573 %
Concentration RSD	4.0 %	3.7 %	2.4 %	2.5 %	3.8 %	2.7 %	4.3 %	2.0 %	5.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	17.990 ppb	4.992 ppb	10.705 ppb	1.297 ppb	80.309 %	0.065 ppb	0.144 ppb	82.553 %	0.377 ppb
Concentration per Run 1	18.323 ppb	5.359 ppb	10.876 ppb	1.323 ppb	79.367 %	0.071 ppb	0.139 ppb	80.142 %	0.382 ppb
Concentration per Run 2	18.458 ppb	4.377 ppb	10.781 ppb	1.297 ppb	80.450 %	0.061 ppb	0.157 ppb	83.926 %	0.381 ppb
Concentration per Run 3	17.189 ppb	5.239 ppb	10.457 ppb	1.271 ppb	81.110 %	0.062 ppb	0.135 ppb	83.591 %	0.369 ppb
Concentration RSD	3.9 %	10.7 %	2.1 %	2.0 %	1.1 %	8.2 %	8.2 %	2.5 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	101.901 ppb	77.336 %	75.379 %	0.292 ppb	33.291 ppb	80.589 %
Concentration per Run 1	102.728 ppb	75.452 %	72.790 %	0.279 ppb	33.549 ppb	78.371 %
Concentration per Run 2	102.920 ppb	77.831 %	76.473 %	0.301 ppb	33.453 ppb	80.860 %
Concentration per Run 3	100.055 ppb	78.725 %	76.872 %	0.296 ppb	32.873 ppb	82.536 %
Concentration RSD	1.6 %	2.2 %	3.0 %	4.0 %	1.1 %	2.6 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 102 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: WG1813612-6D50 6020TS Rack 2
 Analysis started at: 8/9/2023 2:00:10 PM Vial 3

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.903 %	76.966 %	0.320 ppb	50.356 ppb	1,328.628 ppb	6,256.131 ppb	237.741 ppb	482.073 ppb	86.465 %
Concentration per Run 1	77.189 %	71.509 %	0.336 ppb	49.135 ppb	1,298.198 ppb	6,215.429 ppb	225.407 ppb	462.608 ppb	85.537 %
Concentration per Run 2	78.291 %	76.324 %	0.317 ppb	51.240 ppb	1,361.335 ppb	6,435.347 ppb	258.656 ppb	511.292 ppb	87.894 %
Concentration per Run 3	78.230 %	83.066 %	0.306 ppb	50.694 ppb	1,326.351 ppb	6,117.616 ppb	229.160 ppb	472.318 ppb	85.965 %
Concentration RSD	0.8 %	7.5 %	4.8 %	2.2 %	2.4 %	2.6 %	7.7 %	5.3 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	16.012 ppb	11.910 ppb	37.834 ppb	9,146.745 ppb	1.936 ppb	5.074 ppb	4.474 ppb	15.935 ppb	84.324 %
Concentration per Run 1	16.085 ppb	11.612 ppb	38.180 ppb	9,036.578 ppb	1.954 ppb	5.311 ppb	4.775 ppb	15.562 ppb	79.754 %
Concentration per Run 2	16.518 ppb	12.412 ppb	37.015 ppb	9,285.395 ppb	1.899 ppb	4.977 ppb	4.357 ppb	16.404 ppb	85.526 %
Concentration per Run 3	15.432 ppb	11.705 ppb	38.306 ppb	9,118.262 ppb	1.955 ppb	4.933 ppb	4.291 ppb	15.838 ppb	87.691 %
Concentration RSD	3.4 %	3.7 %	1.9 %	1.4 %	1.6 %	4.1 %	5.9 %	2.7 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.861 ppb	1.682 ppb	3.784 ppb	0.223 ppb	83.837 %	0.006 ppb	0.017 ppb	84.864 %	0.082 ppb
Concentration per Run 1	2.729 ppb	1.921 ppb	3.737 ppb	0.215 ppb	82.353 %	0.007 ppb	0.013 ppb	82.202 %	0.087 ppb
Concentration per Run 2	2.944 ppb	1.691 ppb	3.811 ppb	0.222 ppb	84.386 %	0.006 ppb	0.020 ppb	85.572 %	0.085 ppb
Concentration per Run 3	2.910 ppb	1.434 ppb	3.804 ppb	0.232 ppb	84.771 %	0.006 ppb	0.018 ppb	86.818 %	0.075 ppb
Concentration RSD	4.1 %	14.5 %	1.1 %	3.9 %	1.5 %	7.6 %	20.9 %	2.8 %	7.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	22.508 ppb	83.961 %	82.436 %	0.076 ppb	5.951 ppb	84.731 %
Concentration per Run 1	22.163 ppb	81.442 %	79.183 %	0.063 ppb	5.928 ppb	81.571 %
Concentration per Run 2	22.586 ppb	84.260 %	82.876 %	0.083 ppb	5.893 ppb	86.062 %
Concentration per Run 3	22.774 ppb	86.180 %	85.250 %	0.082 ppb	6.030 ppb	86.560 %
Concentration RSD	1.4 %	2.8 %	3.7 %	15.1 %	1.2 %	3.2 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 103 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/9/2023 2:04:39 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	62.724 %	65.810 %	60.941 ppb	6,399.991 ppb	6,522.238 ppb	65.991 ppb	6,521.665 ppb	6,526.754 ppb	65.273 %
Concentration per Run 1	62.647 %	67.656 %	60.189 ppb	6,300.143 ppb	6,360.692 ppb	63.130 ppb	6,390.997 ppb	6,380.650 ppb	66.312 %
Concentration per Run 2	62.681 %	61.637 %	61.594 ppb	6,560.645 ppb	6,694.238 ppb	66.195 ppb	6,677.859 ppb	6,716.566 ppb	64.610 %
Concentration per Run 3	62.843 %	68.138 %	61.039 ppb	6,339.184 ppb	6,511.784 ppb	68.647 ppb	6,496.139 ppb	6,483.046 ppb	64.898 %
Recovery Percentage 1			101.568 %	106.667 %	108.704 %	109.985 %	108.694 %	108.779 %	
Concentration RSD	0.2 %	5.5 %	1.2 %	2.2 %	2.6 %	4.2 %	2.2 %	2.6 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.704 ppb	60.494 ppb	60.290 ppb	5,967.636 ppb	60.341 ppb	60.920 ppb	59.879 ppb	61.493 ppb	71.186 %
Concentration per Run 1	58.207 ppb	58.460 ppb	58.019 ppb	5,725.479 ppb	58.112 ppb	57.485 ppb	57.969 ppb	59.749 ppb	75.144 %
Concentration per Run 2	62.703 ppb	63.281 ppb	62.422 ppb	6,255.743 ppb	63.032 ppb	64.941 ppb	62.520 ppb	63.445 ppb	67.049 %
Concentration per Run 3	61.201 ppb	59.741 ppb	60.427 ppb	5,921.686 ppb	59.879 ppb	60.334 ppb	59.149 ppb	61.286 ppb	71.364 %
Recovery Percentage 1	101.173 %	100.823 %	100.483 %	99.461 %	100.569 %	101.533 %	99.799 %	102.489 %	
Concentration RSD	3.8 %	4.1 %	3.7 %	4.5 %	4.1 %	6.2 %	3.9 %	3.0 %	5.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.423 ppb	59.617 ppb	62.265 ppb	59.707 ppb	69.979 %	59.854 ppb	59.985 ppb	72.641 %	60.195 ppb
Concentration per Run 1	57.184 ppb	57.271 ppb	60.041 ppb	57.231 ppb	71.550 %	58.289 ppb	58.523 ppb	73.880 %	58.540 ppb
Concentration per Run 2	61.298 ppb	60.797 ppb	64.525 ppb	61.060 ppb	68.892 %	61.168 ppb	60.987 ppb	71.578 %	61.727 ppb
Concentration per Run 3	59.786 ppb	60.782 ppb	62.230 ppb	60.829 ppb	69.495 %	60.106 ppb	60.444 ppb	72.465 %	60.317 ppb
Recovery Percentage 1	99.038 %	99.361 %	103.775 %	99.511 %		99.757 %	99.975 %		100.325 %
Concentration RSD	3.5 %	3.4 %	3.6 %	3.6 %	2.0 %	2.4 %	2.2 %	1.6 %	2.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	60.745 ppb	75.821 %	76.256 %	60.035 ppb	61.748 ppb	74.803 %
Concentration per Run 1	59.968 ppb	75.456 %	75.646 %	57.097 ppb	60.114 ppb	74.441 %
Concentration per Run 2	61.624 ppb	75.719 %	76.253 %	61.294 ppb	62.628 ppb	73.867 %
Concentration per Run 3	60.643 ppb	76.289 %	76.870 %	61.714 ppb	62.501 ppb	76.103 %
Recovery Percentage 1	101.241 %			100.058 %	102.913 %	
Concentration RSD	1.4 %	0.6 %	0.8 %	4.3 %	2.3 %	1.6 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 104 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: CCB Rack: 0
 Analysis started at: 8/9/2023 2:09:12 PM Vial: 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	64.614 %	68.619 %	0.008 ppb	2.625 ppb	0.521 ppb	0.593 ppb	1.074 ppb	0.107 ppb	65.151 %
Concentration per Run 1	64.456 %	69.582 %	0.007 ppb	3.386 ppb	0.519 ppb	0.904 ppb	1.678 ppb	-1.562 ppb	64.482 %
Concentration per Run 2	64.646 %	70.786 %	0.014 ppb	1.252 ppb	0.795 ppb	0.779 ppb	1.008 ppb	0.829 ppb	65.796 %
Concentration per Run 3	64.739 %	65.489 %	0.004 ppb	3.235 ppb	0.250 ppb	0.097 ppb	0.535 ppb	1.055 ppb	65.174 %
Recovery Percentage 1			1.696 %	2.625 %	0.744 %	5.933 %	1.074 %	0.107 %	
Concentration RSD	0.2 %	4.0 %	62.5 %	45.4 %	52.2 %	73.2 %	53.5 %	1,353.9 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.002 ppb	0.008 ppb	0.086 ppb	13.932 ppb	0.005 ppb	0.042 ppb	0.026 ppb	0.344 ppb	68.920 %
Concentration per Run 1	-0.005 ppb	0.016 ppb	0.098 ppb	13.954 ppb	0.003 ppb	0.029 ppb	0.021 ppb	0.297 ppb	67.930 %
Concentration per Run 2	0.019 ppb	-0.002 ppb	0.049 ppb	12.527 ppb	0.003 ppb	0.085 ppb	0.026 ppb	0.366 ppb	69.828 %
Concentration per Run 3	-0.022 ppb	0.011 ppb	0.110 ppb	15.317 ppb	0.010 ppb	0.012 ppb	0.032 ppb	0.368 ppb	69.003 %
Recovery Percentage 1	-0.045 %	0.828 %	8.572 %	27.865 %	1.091 %	2.113 %	2.644 %	6.872 %	
Concentration RSD	924.6 %	112.5 %	38.0 %	10.0 %	76.0 %	90.9 %	20.2 %	11.9 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.018 ppb	0.080 ppb	0.003 ppb	0.142 ppb	71.353 %	0.003 ppb	0.000 ppb	72.347 %	0.041 ppb
Concentration per Run 1	0.037 ppb	0.017 ppb	0.002 ppb	0.150 ppb	70.866 %	0.002 ppb	0.001 ppb	71.799 %	0.041 ppb
Concentration per Run 2	0.006 ppb	0.158 ppb	0.005 ppb	0.178 ppb	71.528 %	0.004 ppb	0.000 ppb	72.682 %	0.050 ppb
Concentration per Run 3	0.011 ppb	0.066 ppb	0.002 ppb	0.097 ppb	71.666 %	0.003 ppb	0.001 ppb	72.558 %	0.033 ppb
Recovery Percentage 1	3.593 %	1.604 %	0.029 %	7.090 %		0.805 %	0.233 %		1.034 %
Concentration RSD	91.9 %	89.2 %	54.1 %	28.8 %	0.6 %	35.7 %	137.2 %	0.7 %	20.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.016 ppb	75.980 %	76.875 %	0.344 ppb	0.008 ppb	77.910 %
Concentration per Run 1	0.012 ppb	74.544 %	75.674 %	0.333 ppb	0.008 ppb	75.864 %
Concentration per Run 2	0.016 ppb	75.589 %	75.801 %	0.390 ppb	0.010 ppb	77.797 %
Concentration per Run 3	0.020 ppb	77.807 %	79.149 %	0.311 ppb	0.007 ppb	80.070 %
Recovery Percentage 1	3.230 %			34.445 %	0.836 %	
Concentration RSD	24.9 %	2.2 %	2.6 %	11.8 %	21.9 %	2.7 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 105 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/9/2023 2:15:47 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	63.761 %	76.003 %	61.743 ppb	5,862.122 ppb	5,983.158 ppb	65.919 ppb	6,223.042 ppb	6,248.819 ppb	65.820 %
Concentration per Run 1	63.736 %	78.732 %	62.182 ppb	5,688.531 ppb	5,787.674 ppb	63.110 ppb	6,094.834 ppb	6,106.975 ppb	66.102 %
Concentration per Run 2	63.922 %	78.973 %	61.267 ppb	5,762.812 ppb	5,919.750 ppb	67.665 ppb	6,247.907 ppb	6,173.018 ppb	66.069 %
Concentration per Run 3	63.624 %	70.305 %	61.779 ppb	6,135.022 ppb	6,242.050 ppb	66.982 ppb	6,326.385 ppb	6,466.464 ppb	65.287 %
Recovery Percentage 1			102.904 %	97.702 %	99.719 %	109.865 %	103.717 %	104.147 %	
Concentration RSD	0.2 %	6.5 %	0.7 %	4.1 %	3.9 %	3.7 %	1.9 %	3.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.997 ppb	58.766 ppb	60.194 ppb	5,897.966 ppb	59.007 ppb	58.934 ppb	60.253 ppb	61.897 ppb	71.163 %
Concentration per Run 1	58.155 ppb	57.930 ppb	60.373 ppb	5,761.875 ppb	57.406 ppb	58.199 ppb	58.091 ppb	60.415 ppb	72.600 %
Concentration per Run 2	57.663 ppb	58.105 ppb	59.954 ppb	5,821.462 ppb	59.089 ppb	58.675 ppb	59.947 ppb	62.202 ppb	70.718 %
Concentration per Run 3	61.174 ppb	60.262 ppb	60.255 ppb	6,110.563 ppb	60.524 ppb	59.928 ppb	62.723 ppb	63.075 ppb	70.170 %
Recovery Percentage 1	98.329 %	97.943 %	100.324 %	98.299 %	98.344 %	98.223 %	100.422 %	103.162 %	
Concentration RSD	3.2 %	2.2 %	0.4 %	3.2 %	2.6 %	1.5 %	3.9 %	2.2 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.350 ppb	62.721 ppb	63.796 ppb	59.476 ppb	70.211 %	59.781 ppb	60.075 ppb	73.218 %	60.400 ppb
Concentration per Run 1	59.262 ppb	63.632 ppb	63.734 ppb	57.234 ppb	70.526 %	58.551 ppb	58.652 ppb	74.089 %	59.576 ppb
Concentration per Run 2	60.816 ppb	62.572 ppb	64.425 ppb	60.026 ppb	70.439 %	60.349 ppb	60.465 ppb	73.254 %	60.807 ppb
Concentration per Run 3	60.973 ppb	61.959 ppb	63.229 ppb	61.168 ppb	69.669 %	60.442 ppb	61.108 ppb	72.312 %	60.817 ppb
Recovery Percentage 1	100.584 %	104.535 %	106.326 %	99.127 %		99.635 %	100.125 %		100.667 %
Concentration RSD	1.6 %	1.3 %	0.9 %	3.4 %	0.7 %	1.8 %	2.1 %	1.2 %	1.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	61.031 ppb	76.330 %	77.568 %	59.967 ppb	61.459 ppb	75.805 %
Concentration per Run 1	60.331 ppb	76.336 %	77.957 %	57.067 ppb	59.960 ppb	74.334 %
Concentration per Run 2	61.599 ppb	75.593 %	75.769 %	61.052 ppb	62.307 ppb	75.959 %
Concentration per Run 3	61.162 ppb	77.062 %	78.977 %	61.781 ppb	62.111 ppb	77.121 %
Recovery Percentage 1	101.718 %			99.945 %	102.432 %	
Concentration RSD	1.1 %	1.0 %	2.1 %	4.2 %	2.1 %	1.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 106 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/9/2023 2:20:20 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	65.851 %	73.836 %	0.020 ppb	2.492 ppb	1.636 ppb	7.291 ppb	2.559 ppb	1.266 ppb	66.914 %
Concentration per Run 1	65.894 %	69.342 %	0.017 ppb	1.900 ppb	2.009 ppb	8.378 ppb	4.887 ppb	-0.587 ppb	66.697 %
Concentration per Run 2	66.107 %	82.103 %	0.022 ppb	2.380 ppb	0.893 ppb	7.129 ppb	1.352 ppb	2.553 ppb	66.924 %
Concentration per Run 3	65.552 %	70.064 %	0.019 ppb	3.197 ppb	2.005 ppb	6.366 ppb	1.436 ppb	1.833 ppb	67.120 %
Recovery Percentage 1			3.917 %	2.492 %	2.337 %	72.912 %	2.559 %	1.266 %	
Concentration RSD	0.4 %	9.7 %	13.0 %	26.3 %	39.3 %	13.9 %	78.8 %	129.9 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.031 ppb	0.025 ppb	0.102 ppb	20.356 ppb	0.022 ppb	0.035 ppb	0.039 ppb	0.339 ppb	71.740 %
Concentration per Run 1	0.068 ppb	0.023 ppb	0.081 ppb	18.484 ppb	0.028 ppb	0.055 ppb	0.025 ppb	0.260 ppb	72.462 %
Concentration per Run 2	0.006 ppb	0.027 ppb	0.119 ppb	23.176 ppb	0.016 ppb	0.034 ppb	0.024 ppb	0.410 ppb	71.958 %
Concentration per Run 3	0.019 ppb	0.024 ppb	0.105 ppb	19.408 ppb	0.021 ppb	0.016 ppb	0.067 ppb	0.347 ppb	70.799 %
Recovery Percentage 1	0.621 %	2.497 %	10.177 %	40.712 %	4.322 %	1.755 %	3.881 %	6.781 %	
Concentration RSD	104.5 %	8.9 %	19.0 %	12.2 %	27.5 %	56.2 %	64.0 %	22.2 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.030 ppb	0.061 ppb	0.020 ppb	0.157 ppb	72.513 %	0.009 ppb	0.011 ppb	75.899 %	0.050 ppb
Concentration per Run 1	0.026 ppb	0.062 ppb	0.016 ppb	0.127 ppb	72.517 %	0.010 ppb	0.010 ppb	75.013 %	0.058 ppb
Concentration per Run 2	0.050 ppb	0.111 ppb	0.021 ppb	0.180 ppb	73.121 %	0.007 ppb	0.010 ppb	78.157 %	0.045 ppb
Concentration per Run 3	0.014 ppb	0.010 ppb	0.023 ppb	0.162 ppb	71.903 %	0.009 ppb	0.014 ppb	74.526 %	0.046 ppb
Recovery Percentage 1	6.048 %	1.220 %	0.197 %	7.828 %		2.206 %	5.719 %		1.243 %
Concentration RSD	61.1 %	82.1 %	19.3 %	17.2 %	0.8 %	17.8 %	17.6 %	2.6 %	14.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.045 ppb	77.732 %	79.823 %	0.376 ppb	0.024 ppb	80.425 %
Concentration per Run 1	0.054 ppb	76.500 %	79.255 %	0.358 ppb	0.023 ppb	79.441 %
Concentration per Run 2	0.039 ppb	79.146 %	81.630 %	0.414 ppb	0.024 ppb	81.176 %
Concentration per Run 3	0.041 ppb	77.551 %	78.585 %	0.357 ppb	0.023 ppb	80.658 %
Recovery Percentage 1	8.939 %			37.612 %	2.358 %	
Concentration RSD	17.7 %	1.7 %	2.0 %	8.6 %	1.7 %	1.1 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 107 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-09D10 6020TS Rack 2
 Analysis started at: 8/9/2023 2:25:17 PM Vial 11

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.060 %	80.337 %	0.830 ppb	83.687 ppb	3,593.626 ppb	28,497.080 ppb	688.867 ppb	1,661.245 ppb	90.504 %
Concentration per Run 1	77.680 %	72.953 %	0.832 ppb	88.618 ppb	3,694.644 ppb	29,396.457 ppb	690.932 ppb	1,632.801 ppb	91.890 %
Concentration per Run 2	78.207 %	84.510 %	0.844 ppb	82.543 ppb	3,612.786 ppb	28,907.227 ppb	689.520 ppb	1,671.358 ppb	89.065 %
Concentration per Run 3	78.291 %	83.547 %	0.815 ppb	79.900 ppb	3,473.449 ppb	27,187.556 ppb	686.149 ppb	1,679.578 ppb	90.555 %
Concentration RSD	0.4 %	8.0 %	1.8 %	5.3 %	3.1 %	4.1 %	0.4 %	1.5 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	72.885 ppb	47.409 ppb	303.389 ppb	43,459.355 ppb	6.840 ppb	15.467 ppb	14.664 ppb	54.735 ppb	85.906 %
Concentration per Run 1	74.268 ppb	49.380 ppb	309.993 ppb	44,509.161 ppb	7.046 ppb	15.496 ppb	14.920 ppb	54.659 ppb	82.272 %
Concentration per Run 2	71.104 ppb	45.941 ppb	298.311 ppb	42,575.009 ppb	6.581 ppb	15.421 ppb	14.057 ppb	54.558 ppb	91.299 %
Concentration per Run 3	73.281 ppb	46.906 ppb	301.861 ppb	43,293.896 ppb	6.892 ppb	15.483 ppb	15.015 ppb	54.988 ppb	84.147 %
Concentration RSD	2.2 %	3.7 %	2.0 %	2.2 %	3.5 %	0.3 %	3.6 %	0.4 %	5.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	15.154 ppb	4.052 ppb	10.256 ppb	1.119 ppb	82.065 %	0.056 ppb	0.143 ppb	87.063 %	0.377 ppb
Concentration per Run 1	15.323 ppb	4.031 ppb	10.018 ppb	1.060 ppb	82.015 %	0.050 ppb	0.139 ppb	84.560 %	0.374 ppb
Concentration per Run 2	14.404 ppb	4.489 ppb	10.599 ppb	1.133 ppb	82.648 %	0.066 ppb	0.147 ppb	90.658 %	0.379 ppb
Concentration per Run 3	15.734 ppb	3.635 ppb	10.151 ppb	1.162 ppb	81.533 %	0.052 ppb	0.144 ppb	85.970 %	0.378 ppb
Concentration RSD	4.5 %	10.5 %	3.0 %	4.7 %	0.7 %	15.7 %	2.7 %	3.7 %	0.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	86.986 ppb	80.659 %	79.728 %	0.357 ppb	31.579 ppb	84.448 %
Concentration per Run 1	85.694 ppb	78.243 %	76.749 %	0.327 ppb	30.969 ppb	81.997 %
Concentration per Run 2	87.463 ppb	82.271 %	82.698 %	0.375 ppb	31.718 ppb	85.548 %
Concentration per Run 3	87.799 ppb	81.464 %	79.736 %	0.369 ppb	32.050 ppb	85.800 %
Concentration RSD	1.3 %	2.6 %	3.7 %	7.3 %	1.8 %	2.5 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 108 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-10D10 6020TS Rack 2
 Analysis started at: 8/9/2023 2:29:47 PM Vial 12

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.141 %	76.485 %	0.805 ppb	95.561 ppb	4,116.500 ppb	33,795.287 ppb	829.758 ppb	2,208.948 ppb	88.069 %
Concentration per Run 1	75.783 %	73.194 %	0.831 ppb	103.559 ppb	4,175.347 ppb	33,352.763 ppb	816.810 ppb	2,170.382 ppb	87.098 %
Concentration per Run 2	76.159 %	81.139 %	0.767 ppb	88.623 ppb	4,004.995 ppb	33,875.394 ppb	849.680 ppb	2,232.057 ppb	89.798 %
Concentration per Run 3	76.479 %	75.120 %	0.818 ppb	94.502 ppb	4,169.159 ppb	34,157.704 ppb	822.785 ppb	2,224.405 ppb	87.310 %
Concentration RSD	0.5 %	5.4 %	4.2 %	7.9 %	2.3 %	1.2 %	2.1 %	1.5 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	87.260 ppb	60.710 ppb	121.957 ppb	53,033.930 ppb	6.351 ppb	17.289 ppb	17.716 ppb	56.924 ppb	85.379 %
Concentration per Run 1	85.092 ppb	60.100 ppb	120.662 ppb	52,903.147 ppb	6.343 ppb	16.917 ppb	17.717 ppb	56.600 ppb	83.412 %
Concentration per Run 2	87.292 ppb	59.455 ppb	123.574 ppb	51,797.968 ppb	6.235 ppb	17.165 ppb	17.615 ppb	56.648 ppb	88.342 %
Concentration per Run 3	89.397 ppb	62.576 ppb	121.634 ppb	54,400.675 ppb	6.475 ppb	17.786 ppb	17.818 ppb	57.523 ppb	84.382 %
Concentration RSD	2.5 %	2.7 %	1.2 %	2.5 %	1.9 %	2.6 %	0.6 %	0.9 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	18.923 ppb	4.682 ppb	11.712 ppb	1.251 ppb	80.745 %	0.070 ppb	0.101 ppb	85.376 %	0.472 ppb
Concentration per Run 1	18.355 ppb	4.663 ppb	11.318 ppb	1.215 ppb	79.303 %	0.075 ppb	0.097 ppb	82.589 %	0.452 ppb
Concentration per Run 2	19.359 ppb	4.671 ppb	12.089 ppb	1.263 ppb	81.940 %	0.070 ppb	0.096 ppb	88.573 %	0.480 ppb
Concentration per Run 3	19.055 ppb	4.711 ppb	11.727 ppb	1.275 ppb	80.990 %	0.065 ppb	0.108 ppb	84.965 %	0.483 ppb
Concentration RSD	2.7 %	0.5 %	3.3 %	2.6 %	1.7 %	7.2 %	6.5 %	3.5 %	3.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	90.099 ppb	78.865 %	77.976 %	0.313 ppb	33.569 ppb	82.360 %
Concentration per Run 1	87.685 ppb	76.899 %	75.100 %	0.285 ppb	33.150 ppb	79.479 %
Concentration per Run 2	92.197 ppb	79.625 %	79.974 %	0.326 ppb	33.782 ppb	83.455 %
Concentration per Run 3	90.414 ppb	80.071 %	78.855 %	0.329 ppb	33.776 ppb	84.145 %
Concentration RSD	2.5 %	2.2 %	3.3 %	8.0 %	1.1 %	3.1 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 109 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-11D10 6020TS Rack 2
 Analysis started at: 8/9/2023 2:34:18 PM Vial 13

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	74.126 %	79.133 %	0.740 ppb	93.953 ppb	4,263.771 ppb	27,280.853 ppb	748.764 ppb	1,583.222 ppb	86.929 %
Concentration per Run 1	74.511 %	87.640 %	0.774 ppb	84.387 ppb	3,873.745 ppb	24,629.858 ppb	693.712 ppb	1,490.519 ppb	86.070 %
Concentration per Run 2	73.660 %	75.361 %	0.724 ppb	99.359 ppb	4,375.215 ppb	28,752.156 ppb	768.877 ppb	1,648.587 ppb	88.586 %
Concentration per Run 3	74.206 %	74.398 %	0.723 ppb	98.114 ppb	4,542.352 ppb	28,460.544 ppb	783.704 ppb	1,610.559 ppb	86.129 %
Concentration RSD	0.6 %	9.3 %	3.9 %	8.8 %	8.2 %	8.4 %	6.4 %	5.2 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	77.401 ppb	50.095 ppb	128.116 ppb	47,354.606 ppb	6.702 ppb	18.310 ppb	14.480 ppb	52.821 ppb	84.670 %
Concentration per Run 1	74.377 ppb	48.899 ppb	123.429 ppb	46,698.896 ppb	6.769 ppb	18.141 ppb	14.935 ppb	52.875 ppb	81.139 %
Concentration per Run 2	78.522 ppb	50.056 ppb	128.123 ppb	46,853.361 ppb	6.575 ppb	18.248 ppb	13.708 ppb	52.921 ppb	87.411 %
Concentration per Run 3	79.303 ppb	51.329 ppb	132.796 ppb	48,511.561 ppb	6.761 ppb	18.540 ppb	14.797 ppb	52.666 ppb	85.461 %
Concentration RSD	3.4 %	2.4 %	3.7 %	2.1 %	1.6 %	1.1 %	4.6 %	0.3 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.899 ppb	4.814 ppb	10.614 ppb	1.194 ppb	79.511 %	0.019 ppb	0.058 ppb	83.625 %	0.390 ppb
Concentration per Run 1	14.165 ppb	4.902 ppb	10.403 ppb	1.201 ppb	78.986 %	0.017 ppb	0.062 ppb	81.901 %	0.397 ppb
Concentration per Run 2	13.814 ppb	4.844 ppb	10.815 ppb	1.268 ppb	80.176 %	0.021 ppb	0.058 ppb	84.777 %	0.375 ppb
Concentration per Run 3	13.719 ppb	4.698 ppb	10.624 ppb	1.112 ppb	79.372 %	0.020 ppb	0.054 ppb	84.198 %	0.398 ppb
Concentration RSD	1.7 %	2.2 %	1.9 %	6.5 %	0.8 %	12.5 %	6.9 %	1.8 %	3.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	60.484 ppb	77.995 %	77.270 %	0.258 ppb	23.827 ppb	80.526 %
Concentration per Run 1	59.040 ppb	76.062 %	74.502 %	0.237 ppb	23.759 ppb	77.802 %
Concentration per Run 2	62.285 ppb	78.949 %	78.690 %	0.272 ppb	23.905 ppb	80.966 %
Concentration per Run 3	60.126 ppb	78.974 %	78.618 %	0.266 ppb	23.816 ppb	82.812 %
Concentration RSD	2.7 %	2.1 %	3.1 %	7.2 %	0.3 %	3.1 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 110 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-12D10 6020TS Rack 2
 Analysis started at: 8/9/2023 2:38:47 PM Vial 14

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.015 %	75.281 %	0.822 ppb	84.935 ppb	3,782.836 ppb	30,584.943 ppb	723.550 ppb	2,046.525 ppb	86.306 %
Concentration per Run 1	73.354 %	68.138 %	0.827 ppb	85.890 ppb	3,846.986 ppb	31,080.384 ppb	723.849 ppb	2,081.717 ppb	88.070 %
Concentration per Run 2	73.229 %	78.250 %	0.806 ppb	83.372 ppb	3,628.784 ppb	29,054.994 ppb	687.142 ppb	1,957.159 ppb	85.289 %
Concentration per Run 3	72.462 %	79.454 %	0.832 ppb	85.544 ppb	3,872.736 ppb	31,619.452 ppb	759.658 ppb	2,100.698 ppb	85.558 %
Concentration RSD	0.7 %	8.3 %	1.7 %	1.6 %	3.5 %	4.4 %	5.0 %	3.8 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	83.430 ppb	53.037 ppb	117.351 ppb	51,309.960 ppb	5.723 ppb	15.537 ppb	15.086 ppb	51.254 ppb	83.919 %
Concentration per Run 1	82.217 ppb	53.483 ppb	117.053 ppb	50,175.933 ppb	5.793 ppb	16.176 ppb	15.004 ppb	50.559 ppb	82.485 %
Concentration per Run 2	84.489 ppb	52.558 ppb	114.958 ppb	50,509.981 ppb	5.800 ppb	15.531 ppb	15.193 ppb	51.143 ppb	82.688 %
Concentration per Run 3	83.585 ppb	53.072 ppb	120.043 ppb	53,243.966 ppb	5.575 ppb	14.903 ppb	15.060 ppb	52.059 ppb	86.583 %
Concentration RSD	1.4 %	0.9 %	2.2 %	3.3 %	2.2 %	4.1 %	0.6 %	1.5 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	21.689 ppb	4.295 ppb	10.825 ppb	1.162 ppb	78.504 %	0.037 ppb	0.060 ppb	82.927 %	0.526 ppb
Concentration per Run 1	20.727 ppb	4.259 ppb	10.355 ppb	1.160 ppb	78.078 %	0.040 ppb	0.055 ppb	81.061 %	0.529 ppb
Concentration per Run 2	22.156 ppb	4.293 ppb	10.780 ppb	1.145 ppb	76.934 %	0.031 ppb	0.060 ppb	79.980 %	0.544 ppb
Concentration per Run 3	22.182 ppb	4.332 ppb	11.342 ppb	1.182 ppb	80.500 %	0.039 ppb	0.065 ppb	87.739 %	0.504 ppb
Concentration RSD	3.8 %	0.9 %	4.6 %	1.6 %	2.3 %	13.2 %	8.0 %	5.1 %	3.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	77.788 ppb	76.490 %	76.161 %	0.285 ppb	29.734 ppb	79.918 %
Concentration per Run 1	76.307 ppb	74.261 %	73.328 %	0.259 ppb	29.187 ppb	77.696 %
Concentration per Run 2	77.816 ppb	76.318 %	75.297 %	0.291 ppb	30.076 ppb	78.538 %
Concentration per Run 3	79.241 ppb	78.892 %	79.857 %	0.304 ppb	29.937 ppb	83.521 %
Concentration RSD	1.9 %	3.0 %	4.4 %	8.2 %	1.6 %	3.9 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 111 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-13D10 6020TS Rack 2
 Analysis started at: 8/9/2023 2:43:16 PM Vial 15

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	72.361 %	76.886 %	0.907 ppb	101.742 ppb	4,163.297 ppb	34,559.529 ppb	760.974 ppb	1,946.151 ppb	84.680 %
Concentration per Run 1	73.153 %	73.676 %	0.908 ppb	101.267 ppb	4,161.720 ppb	34,227.973 ppb	736.888 ppb	1,852.723 ppb	85.834 %
Concentration per Run 2	72.354 %	75.120 %	0.888 ppb	101.481 ppb	4,227.312 ppb	34,152.710 ppb	783.301 ppb	1,973.820 ppb	84.370 %
Concentration per Run 3	71.576 %	81.862 %	0.924 ppb	102.477 ppb	4,100.858 ppb	35,297.905 ppb	762.734 ppb	2,011.908 ppb	83.837 %
Concentration RSD	1.1 %	5.7 %	2.0 %	0.6 %	1.5 %	1.9 %	3.1 %	4.3 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	84.395 ppb	54.778 ppb	138.056 ppb	52,426.397 ppb	6.539 ppb	17.071 ppb	13.719 ppb	56.569 ppb	83.287 %
Concentration per Run 1	82.251 ppb	53.357 ppb	134.933 ppb	50,578.666 ppb	6.555 ppb	17.057 ppb	13.738 ppb	55.918 ppb	81.308 %
Concentration per Run 2	86.708 ppb	56.967 ppb	138.961 ppb	52,613.644 ppb	6.595 ppb	17.353 ppb	13.986 ppb	57.165 ppb	81.130 %
Concentration per Run 3	84.228 ppb	54.010 ppb	140.273 ppb	54,086.881 ppb	6.467 ppb	16.802 ppb	13.433 ppb	56.624 ppb	87.423 %
Concentration RSD	2.6 %	3.5 %	2.0 %	3.4 %	1.0 %	1.6 %	2.0 %	1.1 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	16.241 ppb	4.399 ppb	12.097 ppb	1.317 ppb	78.480 %	0.032 ppb	0.055 ppb	83.054 %	0.391 ppb
Concentration per Run 1	15.886 ppb	4.510 ppb	11.730 ppb	1.169 ppb	77.348 %	0.029 ppb	0.062 ppb	80.851 %	0.365 ppb
Concentration per Run 2	16.725 ppb	4.323 ppb	12.093 ppb	1.321 ppb	78.327 %	0.028 ppb	0.048 ppb	81.214 %	0.394 ppb
Concentration per Run 3	16.110 ppb	4.365 ppb	12.467 ppb	1.460 ppb	79.764 %	0.039 ppb	0.054 ppb	87.098 %	0.414 ppb
Concentration RSD	2.7 %	2.2 %	3.0 %	11.1 %	1.5 %	19.6 %	12.2 %	4.2 %	6.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	90.947 ppb	75.941 %	75.073 %	0.308 ppb	24.945 ppb	79.047 %
Concentration per Run 1	88.614 ppb	74.261 %	72.423 %	0.284 ppb	24.556 ppb	76.673 %
Concentration per Run 2	90.880 ppb	75.595 %	74.541 %	0.322 ppb	25.155 ppb	78.632 %
Concentration per Run 3	93.345 ppb	77.967 %	78.254 %	0.317 ppb	25.122 ppb	81.836 %
Concentration RSD	2.6 %	2.5 %	3.9 %	6.6 %	1.3 %	3.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 112 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-14D10 6020TS Rack 2
 Analysis started at: 8/9/2023 2:47:46 PM Vial 16

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	71.590 %	78.812 %	0.716 ppb	73.147 ppb	3,360.606 ppb	25,276.162 ppb	648.202 ppb	1,330.598 ppb	84.052 %
Concentration per Run 1	71.595 %	74.398 %	0.673 ppb	77.494 ppb	3,483.839 ppb	25,807.061 ppb	655.865 ppb	1,366.634 ppb	83.830 %
Concentration per Run 2	71.283 %	85.233 %	0.726 ppb	70.007 ppb	3,155.700 ppb	24,104.666 ppb	599.815 ppb	1,298.426 ppb	84.156 %
Concentration per Run 3	71.892 %	76.806 %	0.748 ppb	71.938 ppb	3,442.280 ppb	25,916.760 ppb	688.925 ppb	1,326.734 ppb	84.169 %
Concentration RSD	0.4 %	7.2 %	5.5 %	5.3 %	5.3 %	4.0 %	6.9 %	2.6 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	67.160 ppb	43.844 ppb	141.288 ppb	39,314.324 ppb	6.016 ppb	15.560 ppb	12.586 ppb	49.222 ppb	82.266 %
Concentration per Run 1	65.989 ppb	43.408 ppb	139.051 ppb	38,822.983 ppb	5.914 ppb	15.270 ppb	12.554 ppb	48.967 ppb	82.790 %
Concentration per Run 2	64.696 ppb	42.985 ppb	137.789 ppb	38,411.686 ppb	5.937 ppb	15.455 ppb	12.652 ppb	48.745 ppb	81.865 %
Concentration per Run 3	70.796 ppb	45.139 ppb	147.023 ppb	40,708.304 ppb	6.198 ppb	15.953 ppb	12.551 ppb	49.954 ppb	82.142 %
Concentration RSD	4.8 %	2.6 %	3.5 %	3.1 %	2.6 %	2.3 %	0.5 %	1.3 %	0.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	8.605 ppb	3.819 ppb	9.801 ppb	0.896 ppb	78.104 %	0.021 ppb	0.061 ppb	81.793 %	0.340 ppb
Concentration per Run 1	8.207 ppb	3.639 ppb	9.504 ppb	0.934 ppb	77.944 %	0.021 ppb	0.077 ppb	80.848 %	0.321 ppb
Concentration per Run 2	8.886 ppb	3.841 ppb	9.951 ppb	0.887 ppb	78.015 %	0.023 ppb	0.050 ppb	82.694 %	0.362 ppb
Concentration per Run 3	8.721 ppb	3.978 ppb	9.947 ppb	0.867 ppb	78.354 %	0.020 ppb	0.057 ppb	81.837 %	0.338 ppb
Concentration RSD	4.1 %	4.5 %	2.6 %	3.8 %	0.3 %	8.0 %	23.4 %	1.1 %	6.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	60.746 ppb	76.206 %	74.936 %	0.217 ppb	18.037 ppb	78.906 %
Concentration per Run 1	60.586 ppb	74.558 %	72.665 %	0.197 ppb	17.804 ppb	77.109 %
Concentration per Run 2	60.041 ppb	76.757 %	75.219 %	0.224 ppb	18.132 ppb	78.823 %
Concentration per Run 3	61.609 ppb	77.303 %	76.923 %	0.230 ppb	18.175 ppb	80.785 %
Concentration RSD	1.3 %	1.9 %	2.9 %	8.2 %	1.1 %	2.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 113 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-15D10 6020TS Rack 2
 Analysis started at: 8/9/2023 2:52:15 PM Vial 17

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	71.758 %	73.194 %	0.873 ppb	106.381 ppb	3,656.808 ppb	30,951.703 ppb	815.794 ppb	1,085.325 ppb	84.050 %
Concentration per Run 1	71.934 %	79.213 %	0.850 ppb	96.298 ppb	3,385.929 ppb	28,806.699 ppb	782.921 ppb	1,022.005 ppb	85.310 %
Concentration per Run 2	71.800 %	69.823 %	0.919 ppb	109.769 ppb	3,837.621 ppb	32,115.728 ppb	821.288 ppb	1,110.298 ppb	83.180 %
Concentration per Run 3	71.542 %	70.546 %	0.850 ppb	113.076 ppb	3,746.874 ppb	31,932.683 ppb	843.175 ppb	1,123.671 ppb	83.658 %
Concentration RSD	0.3 %	7.1 %	4.5 %	8.4 %	6.5 %	6.0 %	3.7 %	5.1 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	73.800 ppb	45.672 ppb	195.515 ppb	39,531.465 ppb	7.407 ppb	17.113 ppb	13.047 ppb	60.453 ppb	81.798 %
Concentration per Run 1	71.522 ppb	44.165 ppb	191.166 ppb	38,738.786 ppb	7.287 ppb	16.605 ppb	12.573 ppb	59.198 ppb	79.704 %
Concentration per Run 2	75.312 ppb	46.732 ppb	199.745 ppb	40,242.988 ppb	7.646 ppb	17.648 ppb	13.288 ppb	61.121 ppb	82.871 %
Concentration per Run 3	74.567 ppb	46.118 ppb	195.635 ppb	39,612.621 ppb	7.288 ppb	17.087 ppb	13.279 ppb	61.040 ppb	82.820 %
Concentration RSD	2.7 %	2.9 %	2.2 %	1.9 %	2.8 %	3.1 %	3.1 %	1.8 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	9.790 ppb	3.979 ppb	8.366 ppb	1.278 ppb	77.769 %	0.033 ppb	0.114 ppb	80.704 %	0.318 ppb
Concentration per Run 1	9.902 ppb	3.411 ppb	8.290 ppb	1.191 ppb	77.781 %	0.031 ppb	0.127 ppb	79.978 %	0.307 ppb
Concentration per Run 2	9.536 ppb	4.343 ppb	8.426 ppb	1.336 ppb	76.924 %	0.032 ppb	0.120 ppb	79.896 %	0.324 ppb
Concentration per Run 3	9.931 ppb	4.183 ppb	8.381 ppb	1.306 ppb	78.603 %	0.035 ppb	0.096 ppb	82.237 %	0.323 ppb
Concentration RSD	2.3 %	12.5 %	0.8 %	6.0 %	1.1 %	6.6 %	14.3 %	1.6 %	3.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	92.556 ppb	75.046 %	73.515 %	0.250 ppb	23.633 ppb	78.883 %
Concentration per Run 1	91.744 ppb	73.614 %	71.922 %	0.228 ppb	23.219 ppb	77.476 %
Concentration per Run 2	92.246 ppb	74.508 %	73.590 %	0.253 ppb	23.877 ppb	78.059 %
Concentration per Run 3	93.677 ppb	77.017 %	75.035 %	0.270 ppb	23.802 ppb	81.116 %
Concentration RSD	1.1 %	2.4 %	2.1 %	8.5 %	1.5 %	2.5 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 114 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-16D10 6020TS Rack 2
 Analysis started at: 8/9/2023 2:56:45 PM Vial 18

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	70.731 %	76.164 %	1.295 ppb	90.005 ppb	3,283.972 ppb	27,191.036 ppb	668.730 ppb	1,402.523 ppb	80.412 %
Concentration per Run 1	70.490 %	74.398 %	1.252 ppb	89.652 ppb	3,284.798 ppb	27,197.588 ppb	687.001 ppb	1,401.803 ppb	79.650 %
Concentration per Run 2	71.693 %	77.287 %	1.287 ppb	88.651 ppb	3,245.257 ppb	26,748.878 ppb	652.947 ppb	1,416.479 ppb	82.074 %
Concentration per Run 3	70.010 %	76.806 %	1.346 ppb	91.710 ppb	3,321.861 ppb	27,626.641 ppb	666.243 ppb	1,389.286 ppb	79.514 %
Concentration RSD	1.2 %	2.0 %	3.7 %	1.7 %	1.2 %	1.6 %	2.6 %	1.0 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	69.559 ppb	46.229 ppb	546.487 ppb	40,641.788 ppb	10.362 ppb	16.094 ppb	15.396 ppb	65.022 ppb	81.208 %
Concentration per Run 1	67.727 ppb	45.697 ppb	540.012 ppb	40,434.539 ppb	10.260 ppb	16.616 ppb	15.626 ppb	64.923 ppb	80.167 %
Concentration per Run 2	68.497 ppb	45.819 ppb	540.634 ppb	39,824.169 ppb	10.383 ppb	15.624 ppb	15.217 ppb	64.403 ppb	82.377 %
Concentration per Run 3	72.452 ppb	47.171 ppb	558.815 ppb	41,666.657 ppb	10.443 ppb	16.040 ppb	15.345 ppb	65.742 ppb	81.079 %
Concentration RSD	3.6 %	1.8 %	2.0 %	2.3 %	0.9 %	3.1 %	1.4 %	1.0 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	24.450 ppb	5.553 ppb	10.575 ppb	1.152 ppb	77.140 %	0.095 ppb	0.251 ppb	79.697 %	0.527 ppb
Concentration per Run 1	24.262 ppb	5.370 ppb	10.468 ppb	1.108 ppb	76.957 %	0.099 ppb	0.246 ppb	78.873 %	0.496 ppb
Concentration per Run 2	24.108 ppb	5.644 ppb	10.576 ppb	1.155 ppb	77.343 %	0.101 ppb	0.254 ppb	80.007 %	0.532 ppb
Concentration per Run 3	24.979 ppb	5.644 ppb	10.682 ppb	1.193 ppb	77.120 %	0.086 ppb	0.254 ppb	80.212 %	0.552 ppb
Concentration RSD	1.9 %	2.8 %	1.0 %	3.7 %	0.3 %	8.9 %	1.9 %	0.9 %	5.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	118.811 ppb	75.951 %	74.274 %	0.270 ppb	69.700 ppb	78.674 %
Concentration per Run 1	116.412 ppb	74.299 %	72.549 %	0.248 ppb	68.642 ppb	76.855 %
Concentration per Run 2	119.737 ppb	74.986 %	73.571 %	0.282 ppb	70.151 ppb	78.634 %
Concentration per Run 3	120.284 ppb	78.569 %	76.701 %	0.280 ppb	70.307 ppb	80.532 %
Concentration RSD	1.8 %	3.0 %	2.9 %	7.0 %	1.3 %	2.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 115 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-17D10 6020TS Rack 2
 Analysis started at: 8/9/2023 3:01:14 PM Vial 19

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	70.241 %	74.077 %	0.999 ppb	79.495 ppb	3,532.382 ppb	33,870.516 ppb	769.150 ppb	1,290.527 ppb	81.705 %
Concentration per Run 1	70.766 %	71.990 %	0.999 ppb	84.188 ppb	3,576.695 ppb	34,230.403 ppb	766.268 ppb	1,310.876 ppb	81.454 %
Concentration per Run 2	70.134 %	75.361 %	0.967 ppb	77.401 ppb	3,456.616 ppb	33,375.615 ppb	780.433 ppb	1,299.033 ppb	83.056 %
Concentration per Run 3	69.823 %	74.879 %	1.031 ppb	76.895 ppb	3,563.834 ppb	34,005.529 ppb	760.750 ppb	1,261.672 ppb	80.606 %
Concentration RSD	0.7 %	2.5 %	3.2 %	5.1 %	1.9 %	1.3 %	1.3 %	2.0 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	85.824 ppb	55.054 ppb	214.568 ppb	53,037.675 ppb	7.563 ppb	16.256 ppb	15.922 ppb	59.030 ppb	79.860 %
Concentration per Run 1	84.095 ppb	54.453 ppb	216.513 ppb	52,722.540 ppb	7.525 ppb	16.206 ppb	15.904 ppb	58.564 ppb	79.039 %
Concentration per Run 2	82.985 ppb	53.752 ppb	209.337 ppb	51,966.804 ppb	7.282 ppb	16.028 ppb	15.532 ppb	58.329 ppb	81.949 %
Concentration per Run 3	90.393 ppb	56.956 ppb	217.853 ppb	54,423.681 ppb	7.881 ppb	16.533 ppb	16.330 ppb	60.197 ppb	78.590 %
Concentration RSD	4.7 %	3.1 %	2.1 %	2.4 %	4.0 %	1.6 %	2.5 %	1.7 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	18.125 ppb	3.932 ppb	9.661 ppb	1.350 ppb	76.605 %	0.061 ppb	0.071 ppb	80.347 %	0.446 ppb
Concentration per Run 1	17.836 ppb	4.138 ppb	9.488 ppb	1.303 ppb	76.165 %	0.070 ppb	0.061 ppb	79.863 %	0.412 ppb
Concentration per Run 2	17.904 ppb	3.642 ppb	9.525 ppb	1.351 ppb	76.926 %	0.057 ppb	0.077 ppb	80.558 %	0.464 ppb
Concentration per Run 3	18.634 ppb	4.017 ppb	9.971 ppb	1.396 ppb	76.724 %	0.057 ppb	0.076 ppb	80.620 %	0.462 ppb
Concentration RSD	2.4 %	6.6 %	2.8 %	3.4 %	0.5 %	12.6 %	12.1 %	0.5 %	6.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	111.705 ppb	73.862 %	73.009 %	0.335 ppb	35.502 ppb	78.037 %
Concentration per Run 1	109.787 ppb	72.368 %	71.330 %	0.309 ppb	34.909 ppb	76.391 %
Concentration per Run 2	111.541 ppb	73.368 %	72.357 %	0.337 ppb	35.869 ppb	77.776 %
Concentration per Run 3	113.785 ppb	75.851 %	75.341 %	0.357 ppb	35.729 ppb	79.942 %
Concentration RSD	1.8 %	2.4 %	2.9 %	7.3 %	1.5 %	2.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 116 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2345740-18D10 6020TS Rack 2
 Analysis started at: 8/9/2023 3:05:44 PM Vial 20

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	67.623 %	73.836 %	0.580 ppb	28.724 ppb	355.856 ppb	12,720.462 ppb	302.940 ppb	223.860 ppb	78.265 %
Concentration per Run 1	67.189 %	69.582 %	0.640 ppb	28.487 ppb	337.890 ppb	12,503.630 ppb	305.379 ppb	229.362 ppb	78.031 %
Concentration per Run 2	68.129 %	75.842 %	0.576 ppb	28.904 ppb	359.433 ppb	12,257.914 ppb	291.065 ppb	213.884 ppb	78.966 %
Concentration per Run 3	67.551 %	76.083 %	0.525 ppb	28.783 ppb	370.244 ppb	13,399.840 ppb	312.377 ppb	228.333 ppb	77.799 %
Concentration RSD	0.7 %	5.0 %	9.9 %	0.7 %	4.6 %	4.7 %	3.6 %	3.9 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	66.906 ppb	35.568 ppb	13.580 ppb	17,180.391 ppb	0.893 ppb	3.483 ppb	6.728 ppb	14.272 ppb	81.562 %
Concentration per Run 1	67.398 ppb	35.979 ppb	13.973 ppb	17,147.764 ppb	0.909 ppb	3.714 ppb	6.799 ppb	14.191 ppb	79.759 %
Concentration per Run 2	67.409 ppb	35.696 ppb	12.862 ppb	17,150.043 ppb	0.895 ppb	3.415 ppb	6.628 ppb	14.386 ppb	80.024 %
Concentration per Run 3	65.911 ppb	35.028 ppb	13.906 ppb	17,243.366 ppb	0.875 ppb	3.320 ppb	6.756 ppb	14.239 ppb	84.904 %
Concentration RSD	1.3 %	1.4 %	4.6 %	0.3 %	1.9 %	5.9 %	1.3 %	0.7 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.371 ppb	4.946 ppb	3.143 ppb	0.332 ppb	77.269 %	0.014 ppb	0.054 ppb	80.986 %	0.148 ppb
Concentration per Run 1	4.482 ppb	4.787 ppb	3.008 ppb	0.286 ppb	76.921 %	0.015 ppb	0.052 ppb	77.631 %	0.149 ppb
Concentration per Run 2	4.436 ppb	5.309 ppb	3.121 ppb	0.348 ppb	76.289 %	0.016 ppb	0.055 ppb	80.310 %	0.150 ppb
Concentration per Run 3	4.195 ppb	4.740 ppb	3.302 ppb	0.361 ppb	78.598 %	0.010 ppb	0.055 ppb	85.019 %	0.146 ppb
Concentration RSD	3.5 %	6.4 %	4.7 %	12.1 %	1.5 %	21.4 %	3.3 %	4.6 %	1.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.009 ppb	78.915 %	77.652 %	0.146 ppb	17.455 ppb	79.957 %
Concentration per Run 1	56.286 ppb	77.270 %	75.348 %	0.133 ppb	16.934 ppb	77.913 %
Concentration per Run 2	58.827 ppb	77.427 %	75.451 %	0.151 ppb	17.162 ppb	79.604 %
Concentration per Run 3	58.915 ppb	82.047 %	82.156 %	0.154 ppb	18.269 ppb	82.355 %
Concentration RSD	2.6 %	3.4 %	5.0 %	7.9 %	4.1 %	2.8 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 117 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: CCV Rack: 0
 Analysis started at: 8/9/2023 3:10:13 PM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	58.266 %	63.804 %	61.444 ppb	6,446.146 ppb	6,535.309 ppb	67.572 ppb	6,742.458 ppb	6,723.157 ppb	61.133 %
Concentration per Run 1	58.909 %	64.045 %	61.135 ppb	6,400.928 ppb	6,431.109 ppb	67.367 ppb	6,595.260 ppb	6,604.162 ppb	62.003 %
Concentration per Run 2	57.631 %	64.045 %	61.799 ppb	6,316.994 ppb	6,419.387 ppb	61.848 ppb	6,641.396 ppb	6,662.464 ppb	60.208 %
Concentration per Run 3	58.259 %	63.322 %	61.400 ppb	6,620.514 ppb	6,755.431 ppb	73.502 ppb	6,990.717 ppb	6,902.847 ppb	61.187 %
Recovery Percentage 1			102.407 %	107.436 %	108.922 %	112.621 %	112.374 %	112.053 %	
Concentration RSD	1.1 %	0.7 %	0.5 %	2.4 %	2.9 %	8.6 %	3.2 %	2.4 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	61.047 ppb	60.315 ppb	61.267 ppb	5,948.942 ppb	60.567 ppb	60.764 ppb	60.190 ppb	61.765 ppb	70.173 %
Concentration per Run 1	60.218 ppb	59.101 ppb	60.003 ppb	5,793.608 ppb	59.930 ppb	60.199 ppb	59.724 ppb	61.432 ppb	70.056 %
Concentration per Run 2	62.878 ppb	62.537 ppb	61.807 ppb	6,081.389 ppb	62.033 ppb	63.192 ppb	62.133 ppb	62.222 ppb	67.904 %
Concentration per Run 3	60.044 ppb	59.306 ppb	61.991 ppb	5,971.828 ppb	59.737 ppb	58.902 ppb	58.714 ppb	61.641 ppb	72.559 %
Recovery Percentage 1	101.745 %	100.525 %	102.111 %	99.149 %	100.944 %	101.274 %	100.317 %	102.942 %	
Concentration RSD	2.6 %	3.2 %	1.8 %	2.4 %	2.1 %	3.6 %	2.9 %	0.7 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.533 ppb	62.316 ppb	63.829 ppb	59.165 ppb	68.038 %	59.104 ppb	59.697 ppb	72.398 %	60.028 ppb
Concentration per Run 1	59.503 ppb	60.099 ppb	61.572 ppb	57.830 ppb	68.942 %	58.335 ppb	58.581 ppb	71.513 %	59.050 ppb
Concentration per Run 2	60.052 ppb	62.727 ppb	63.098 ppb	59.466 ppb	67.241 %	59.860 ppb	60.722 ppb	70.878 %	59.804 ppb
Concentration per Run 3	59.045 ppb	64.122 ppb	66.817 ppb	60.200 ppb	67.931 %	59.118 ppb	59.789 ppb	74.802 %	61.229 ppb
Recovery Percentage 1	99.222 %	103.860 %	106.382 %	98.609 %		98.507 %	99.496 %		100.046 %
Concentration RSD	0.8 %	3.3 %	4.2 %	2.1 %	1.3 %	1.3 %	1.8 %	2.9 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	61.977 ppb	74.797 %	76.319 %	59.648 ppb	61.407 ppb	73.577 %
Concentration per Run 1	61.364 ppb	73.797 %	74.346 %	57.917 ppb	60.754 ppb	72.179 %
Concentration per Run 2	61.094 ppb	74.411 %	75.459 %	59.334 ppb	61.116 ppb	73.086 %
Concentration per Run 3	63.472 ppb	76.183 %	79.152 %	61.692 ppb	62.353 ppb	75.467 %
Recovery Percentage 1	103.294 %			99.413 %	102.346 %	
Concentration RSD	2.1 %	1.7 %	3.3 %	3.2 %	1.4 %	2.3 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 118 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: CCB Rack: 0
 Analysis started at: 8/9/2023 3:14:46 PM Vial: 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	60.815 %	65.329 %	0.012 ppb	2.009 ppb	-0.067 ppb	1.164 ppb	2.950 ppb	4.082 ppb	62.060 %
Concentration per Run 1	60.899 %	61.878 %	0.008 ppb	2.454 ppb	-0.369 ppb	1.988 ppb	0.088 ppb	-1.391 ppb	62.029 %
Concentration per Run 2	61.169 %	65.971 %	0.015 ppb	1.766 ppb	0.261 ppb	0.698 ppb	4.596 ppb	6.535 ppb	62.597 %
Concentration per Run 3	60.376 %	68.138 %	0.012 ppb	1.808 ppb	-0.094 ppb	0.805 ppb	4.166 ppb	7.104 ppb	61.553 %
Recovery Percentage 1			2.351 %	2.009 %	-0.096 %	11.637 %	2.950 %	4.082 %	
Concentration RSD	0.7 %	4.9 %	31.0 %	19.2 %	471.3 %	61.5 %	84.3 %	116.3 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.009 ppb	0.007 ppb	0.059 ppb	11.002 ppb	0.002 ppb	0.051 ppb	0.035 ppb	0.337 ppb	67.347 %
Concentration per Run 1	-0.001 ppb	0.021 ppb	0.031 ppb	9.507 ppb	0.001 ppb	0.075 ppb	0.029 ppb	0.407 ppb	65.294 %
Concentration per Run 2	0.016 ppb	0.002 ppb	0.043 ppb	12.621 ppb	0.006 ppb	0.037 ppb	0.034 ppb	0.311 ppb	64.787 %
Concentration per Run 3	0.011 ppb	-0.002 ppb	0.105 ppb	10.879 ppb	-0.002 ppb	0.040 ppb	0.041 ppb	0.294 ppb	71.959 %
Recovery Percentage 1	0.171 %	0.716 %	5.939 %	22.005 %	0.341 %	2.532 %	3.464 %	6.742 %	
Concentration RSD	103.1 %	175.2 %	66.8 %	14.2 %	223.0 %	41.7 %	17.1 %	18.1 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.020 ppb	0.059 ppb	0.002 ppb	0.121 ppb	69.958 %	0.004 ppb	0.002 ppb	72.947 %	0.037 ppb
Concentration per Run 1	0.023 ppb	0.047 ppb	0.003 ppb	0.125 ppb	68.351 %	0.003 ppb	0.004 ppb	70.914 %	0.031 ppb
Concentration per Run 2	0.022 ppb	0.047 ppb	0.004 ppb	0.105 ppb	69.821 %	0.005 ppb	0.000 ppb	71.906 %	0.046 ppb
Concentration per Run 3	0.014 ppb	0.084 ppb	-0.003 ppb	0.132 ppb	71.701 %	0.004 ppb	0.001 ppb	76.021 %	0.035 ppb
Recovery Percentage 1	3.928 %	1.183 %	0.015 %	6.041 %		1.006 %	0.798 %		0.928 %
Concentration RSD	27.0 %	36.3 %	234.4 %	11.9 %	2.4 %	33.0 %	148.7 %	3.7 %	21.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.026 ppb	74.823 %	76.067 %	0.332 ppb	0.008 ppb	76.908 %
Concentration per Run 1	0.021 ppb	72.058 %	72.911 %	0.333 ppb	0.009 ppb	73.680 %
Concentration per Run 2	0.034 ppb	73.793 %	73.529 %	0.372 ppb	0.010 ppb	77.376 %
Concentration per Run 3	0.024 ppb	78.616 %	81.760 %	0.290 ppb	0.004 ppb	79.667 %
Recovery Percentage 1	5.282 %			33.162 %		0.771 %
Concentration RSD	25.7 %	4.5 %	6.5 %	12.4 %	36.8 %	3.9 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 119 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: xl2345740-19D10 6020TS Rack: 2
 Analysis started at: 8/9/2023 3:20:16 PM Vial: 21

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	72.589 %	75.842 %	2.708 ppb	86.862 ppb	5,967.243 ppb	49,097.413 ppb	1,424.328 ppb	1,929.478 ppb	82.883 %
Concentration per Run 1	73.169 %	69.823 %	2.641 ppb	90.214 ppb	6,296.797 ppb	50,846.188 ppb	1,393.102 ppb	1,927.868 ppb	83.886 %
Concentration per Run 2	72.283 %	83.306 %	2.754 ppb	85.401 ppb	5,873.337 ppb	49,563.744 ppb	1,395.503 ppb	1,976.225 ppb	82.612 %
Concentration per Run 3	72.316 %	74.398 %	2.728 ppb	84.972 ppb	5,731.596 ppb	46,882.307 ppb	1,484.378 ppb	1,884.340 ppb	82.150 %
Concentration RSD	0.7 %	9.0 %	2.2 %	3.4 %	4.9 %	4.1 %	3.7 %	2.4 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	92.237 ppb	60.452 ppb	435.276 ppb	45,320.014 ppb	13.712 ppb	31.484 ppb	24.301 ppb	94.371 ppb	83.194 %
Concentration per Run 1	94.699 ppb	61.959 ppb	441.860 ppb	45,572.542 ppb	14.015 ppb	32.305 ppb	25.017 ppb	95.829 ppb	80.296 %
Concentration per Run 2	90.796 ppb	58.953 ppb	435.636 ppb	46,738.091 ppb	13.427 ppb	31.396 ppb	23.820 ppb	95.301 ppb	85.956 %
Concentration per Run 3	91.215 ppb	60.445 ppb	428.330 ppb	43,649.407 ppb	13.694 ppb	30.751 ppb	24.066 ppb	91.985 ppb	83.331 %
Concentration RSD	2.3 %	2.5 %	1.6 %	3.4 %	2.1 %	2.5 %	2.6 %	2.2 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	16.047 ppb	11.297 ppb	18.270 ppb	1.578 ppb	76.372 %	0.155 ppb	0.151 ppb	81.360 %	0.478 ppb
Concentration per Run 1	16.311 ppb	11.004 ppb	18.120 ppb	1.581 ppb	75.678 %	0.153 ppb	0.138 ppb	78.535 %	0.452 ppb
Concentration per Run 2	16.121 ppb	11.836 ppb	18.882 ppb	1.644 ppb	77.045 %	0.157 ppb	0.157 ppb	83.726 %	0.507 ppb
Concentration per Run 3	15.709 ppb	11.052 ppb	17.809 ppb	1.510 ppb	76.391 %	0.156 ppb	0.160 ppb	81.818 %	0.475 ppb
Concentration RSD	1.9 %	4.1 %	3.0 %	4.3 %	0.9 %	1.2 %	7.7 %	3.2 %	5.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	326.750 ppb	76.433 %	74.086 %	0.493 ppb	43.850 ppb	78.633 %
Concentration per Run 1	319.811 ppb	73.091 %	69.959 %	0.460 ppb	44.075 ppb	75.799 %
Concentration per Run 2	337.558 ppb	78.385 %	77.260 %	0.521 ppb	44.341 ppb	79.058 %
Concentration per Run 3	322.882 ppb	77.822 %	75.039 %	0.500 ppb	43.132 ppb	81.041 %
Concentration RSD	2.9 %	3.8 %	5.1 %	6.3 %	1.4 %	3.4 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 120 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: xl2345740-20D20 6020TS Rack: 2
 Analysis started at: 8/9/2023 3:24:46 PM Vial: 22

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	67.748 %	68.780 %	0.994 ppb	42.615 ppb	2,409.631 ppb	25,843.864 ppb	653.713 ppb	691.110 ppb	76.341 %
Concentration per Run 1	68.235 %	65.971 %	1.004 ppb	42.195 ppb	2,473.283 ppb	25,534.367 ppb	613.483 ppb	691.849 ppb	77.906 %
Concentration per Run 2	67.334 %	71.027 %	0.999 ppb	44.755 ppb	2,430.113 ppb	27,055.364 ppb	714.308 ppb	749.480 ppb	74.462 %
Concentration per Run 3	67.674 %	69.342 %	0.979 ppb	40.894 ppb	2,325.499 ppb	24,941.861 ppb	633.347 ppb	632.002 ppb	76.653 %
Concentration RSD	0.7 %	3.7 %	1.4 %	4.6 %	3.2 %	4.2 %	8.2 %	8.5 %	2.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	70.953 ppb	41.780 ppb	1,289.608 ppb	45,501.905 ppb	24.257 ppb	13.894 ppb	12.760 ppb	61.782 ppb	80.127 %
Concentration per Run 1	68.566 ppb	40.661 ppb	1,254.875 ppb	44,530.539 ppb	23.802 ppb	14.019 ppb	12.507 ppb	60.538 ppb	80.152 %
Concentration per Run 2	73.727 ppb	42.325 ppb	1,335.633 ppb	46,508.047 ppb	23.919 ppb	13.707 ppb	13.009 ppb	62.674 ppb	81.200 %
Concentration per Run 3	70.567 ppb	42.354 ppb	1,278.315 ppb	45,467.129 ppb	25.050 ppb	13.955 ppb	12.764 ppb	62.134 ppb	79.029 %
Concentration RSD	3.7 %	2.3 %	3.2 %	2.2 %	2.8 %	1.2 %	2.0 %	1.8 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	14.166 ppb	5.075 ppb	6.425 ppb	1.252 ppb	76.964 %	0.088 ppb	0.104 ppb	80.926 %	0.370 ppb
Concentration per Run 1	13.829 ppb	4.939 ppb	6.183 ppb	1.215 ppb	77.237 %	0.087 ppb	0.093 ppb	78.774 %	0.361 ppb
Concentration per Run 2	14.355 ppb	5.314 ppb	6.777 ppb	1.239 ppb	77.383 %	0.085 ppb	0.103 ppb	84.590 %	0.369 ppb
Concentration per Run 3	14.314 ppb	4.970 ppb	6.316 ppb	1.302 ppb	76.273 %	0.090 ppb	0.115 ppb	79.415 %	0.379 ppb
Concentration RSD	2.1 %	4.1 %	4.8 %	3.6 %	0.8 %	2.8 %	10.7 %	3.9 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	107.477 ppb	76.444 %	75.560 %	0.261 ppb	31.063 ppb	79.386 %
Concentration per Run 1	107.242 ppb	74.299 %	73.056 %	0.240 ppb	30.566 ppb	78.076 %
Concentration per Run 2	108.171 ppb	78.239 %	78.261 %	0.268 ppb	31.184 ppb	79.588 %
Concentration per Run 3	107.018 ppb	76.794 %	75.362 %	0.276 ppb	31.438 ppb	80.494 %
Concentration RSD	0.6 %	2.6 %	3.5 %	7.2 %	1.4 %	1.5 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 121 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: CCV Rack: 0
 Analysis started at: 8/9/2023 3:30:17 PM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	56.617 %	57.383 %	61.052 ppb	6,643.187 ppb	6,822.231 ppb	67.094 ppb	6,748.421 ppb	6,543.824 ppb	59.196 %
Concentration per Run 1	56.792 %	61.878 %	61.339 ppb	6,267.999 ppb	6,469.125 ppb	64.446 ppb	6,466.516 ppb	6,101.590 ppb	59.462 %
Concentration per Run 2	56.988 %	58.025 %	60.899 ppb	6,601.735 ppb	6,707.329 ppb	67.252 ppb	6,666.962 ppb	6,710.056 ppb	59.685 %
Concentration per Run 3	56.070 %	52.247 %	60.918 ppb	7,059.827 ppb	7,290.240 ppb	69.583 ppb	7,111.784 ppb	6,819.828 ppb	58.441 %
Recovery Percentage 1			101.753 %	110.720 %	113.704 %	111.823 %	112.474 %	109.064 %	
Concentration RSD	0.9 %	8.4 %	0.4 %	6.0 %	6.2 %	3.8 %	4.9 %	5.9 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	62.214 ppb	61.426 ppb	60.734 ppb	6,095.063 ppb	61.174 ppb	62.733 ppb	61.006 ppb	62.323 ppb	67.012 %
Concentration per Run 1	61.325 ppb	59.605 ppb	58.245 ppb	5,946.979 ppb	59.515 ppb	60.922 ppb	59.672 ppb	60.051 ppb	68.813 %
Concentration per Run 2	61.406 ppb	60.906 ppb	61.296 ppb	5,953.641 ppb	60.409 ppb	60.964 ppb	60.897 ppb	62.107 ppb	67.353 %
Concentration per Run 3	63.911 ppb	63.767 ppb	62.659 ppb	6,384.568 ppb	63.598 ppb	66.312 ppb	62.448 ppb	64.811 ppb	64.869 %
Recovery Percentage 1	103.690 %	102.376 %	101.223 %	101.584 %	101.956 %	104.555 %	101.676 %	103.872 %	
Concentration RSD	2.4 %	3.5 %	3.7 %	4.1 %	3.5 %	4.9 %	2.3 %	3.8 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.730 ppb	59.388 ppb	62.340 ppb	59.479 ppb	66.144 %	59.977 ppb	59.961 ppb	68.296 %	60.819 ppb
Concentration per Run 1	57.962 ppb	57.742 ppb	60.985 ppb	56.768 ppb	66.643 %	58.882 ppb	58.411 ppb	69.026 %	59.831 ppb
Concentration per Run 2	60.320 ppb	59.256 ppb	62.682 ppb	60.505 ppb	66.319 %	60.510 ppb	60.652 ppb	67.695 %	60.854 ppb
Concentration per Run 3	60.908 ppb	61.165 ppb	63.354 ppb	61.164 ppb	65.469 %	60.539 ppb	60.818 ppb	68.166 %	61.772 ppb
Recovery Percentage 1	99.550 %	98.979 %	103.901 %	99.132 %		99.961 %	99.934 %		101.365 %
Concentration RSD	2.6 %	2.9 %	2.0 %	4.0 %	0.9 %	1.6 %	2.2 %	1.0 %	1.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	61.645 ppb	71.688 %	72.357 %	60.386 ppb	61.759 ppb	70.949 %
Concentration per Run 1	60.869 ppb	70.729 %	71.792 %	58.845 ppb	60.583 ppb	69.720 %
Concentration per Run 2	62.065 ppb	71.729 %	71.824 %	60.369 ppb	62.204 ppb	71.035 %
Concentration per Run 3	62.001 ppb	72.604 %	73.456 %	61.943 ppb	62.491 ppb	72.093 %
Recovery Percentage 1	102.742 %			100.643 %	102.932 %	
Concentration RSD	1.1 %	1.3 %	1.3 %	2.6 %	1.7 %	1.7 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 122 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/9/2023 3:34:50 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	59.433 %	65.730 %	0.013 ppb	2.217 ppb	0.032 ppb	0.833 ppb	3.593 ppb	1.971 ppb	60.598 %
Concentration per Run 1	59.240 %	69.342 %	0.022 ppb	1.602 ppb	0.213 ppb	1.091 ppb	0.761 ppb	-0.283 ppb	60.729 %
Concentration per Run 2	59.498 %	63.804 %	0.008 ppb	3.331 ppb	-0.050 ppb	1.118 ppb	2.742 ppb	5.179 ppb	60.039 %
Concentration per Run 3	59.560 %	64.045 %	0.010 ppb	1.717 ppb	-0.067 ppb	0.290 ppb	7.276 ppb	1.017 ppb	61.026 %
Recovery Percentage 1			2.683 %	2.217 %	0.046 %	8.331 %	3.593 %	1.971 %	
Concentration RSD	0.3 %	4.8 %	53.7 %	43.6 %	486.2 %	56.5 %	93.0 %	144.8 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.010 ppb	0.010 ppb	0.118 ppb	11.056 ppb	0.005 ppb	0.039 ppb	0.031 ppb	0.295 ppb	69.070 %
Concentration per Run 1	-0.013 ppb	0.006 ppb	0.180 ppb	10.846 ppb	0.001 ppb	0.072 ppb	0.032 ppb	0.287 ppb	68.380 %
Concentration per Run 2	-0.020 ppb	0.007 ppb	0.115 ppb	11.107 ppb	0.003 ppb	0.080 ppb	0.045 ppb	0.311 ppb	66.511 %
Concentration per Run 3	0.003 ppb	0.017 ppb	0.060 ppb	11.216 ppb	0.010 ppb	-0.035 ppb	0.015 ppb	0.286 ppb	72.321 %
Recovery Percentage 1	-0.204 %	1.022 %	11.846 %	22.112 %	0.926 %	1.959 %	3.057 %	5.898 %	
Concentration RSD	118.3 %	61.9 %	50.4 %	1.7 %	101.6 %	163.7 %	49.3 %	4.8 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.028 ppb	0.082 ppb	0.002 ppb	0.116 ppb	68.313 %	0.004 ppb	0.003 ppb	71.755 %	0.034 ppb
Concentration per Run 1	0.020 ppb	0.114 ppb	0.001 ppb	0.086 ppb	67.614 %	0.004 ppb	0.004 ppb	69.652 %	0.029 ppb
Concentration per Run 2	0.034 ppb	0.046 ppb	0.006 ppb	0.164 ppb	68.019 %	0.003 ppb	0.004 ppb	70.970 %	0.037 ppb
Concentration per Run 3	0.030 ppb	0.087 ppb	-0.002 ppb	0.098 ppb	69.306 %	0.004 ppb	0.001 ppb	74.641 %	0.037 ppb
Recovery Percentage 1	5.539 %	1.644 %	0.016 %	5.809 %		0.933 %	1.571 %		0.852 %
Concentration RSD	26.3 %	41.6 %	260.8 %	35.8 %	1.3 %	14.9 %	64.0 %	3.6 %	14.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.027 ppb	73.678 %	74.619 %	0.349 ppb	0.010 ppb	75.375 %
Concentration per Run 1	0.031 ppb	71.343 %	71.081 %	0.339 ppb	0.010 ppb	73.771 %
Concentration per Run 2	0.026 ppb	72.971 %	73.642 %	0.397 ppb	0.012 ppb	73.624 %
Concentration per Run 3	0.024 ppb	76.720 %	79.135 %	0.311 ppb	0.009 ppb	78.729 %
Recovery Percentage 1	5.393 %			34.899 %	1.044 %	
Concentration RSD	13.1 %	3.7 %	5.5 %	12.6 %	11.5 %	3.9 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 123 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/9/2023 3:40:12 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	57.401 %	67.014 %	61.671 ppb	5,970.644 ppb	6,106.936 ppb	64.616 ppb	6,440.324 ppb	6,482.182 ppb	60.349 %
Concentration per Run 1	58.013 %	67.175 %	61.551 ppb	5,792.551 ppb	5,861.532 ppb	66.595 ppb	6,070.350 ppb	6,110.331 ppb	60.506 %
Concentration per Run 2	56.965 %	65.730 %	61.370 ppb	6,290.734 ppb	6,449.815 ppb	68.113 ppb	6,952.769 ppb	6,875.170 ppb	60.710 %
Concentration per Run 3	57.224 %	68.138 %	62.093 ppb	5,828.645 ppb	6,009.461 ppb	59.140 ppb	6,297.853 ppb	6,461.046 ppb	59.832 %
Recovery Percentage 1			102.785 %	99.511 %	101.782 %	107.693 %	107.339 %	108.036 %	
Concentration RSD	1.0 %	1.8 %	0.6 %	4.7 %	5.0 %	7.4 %	7.1 %	5.9 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.258 ppb	59.005 ppb	58.907 ppb	5,879.085 ppb	59.221 ppb	58.984 ppb	59.757 ppb	61.756 ppb	66.663 %
Concentration per Run 1	58.133 ppb	57.540 ppb	57.336 ppb	5,703.615 ppb	58.077 ppb	59.043 ppb	59.594 ppb	60.174 ppb	65.804 %
Concentration per Run 2	61.257 ppb	59.559 ppb	61.429 ppb	5,918.603 ppb	59.034 ppb	57.282 ppb	58.590 ppb	61.891 ppb	69.720 %
Concentration per Run 3	58.385 ppb	59.917 ppb	57.957 ppb	6,015.038 ppb	60.552 ppb	60.627 ppb	61.088 ppb	63.204 ppb	64.466 %
Recovery Percentage 1	98.764 %	98.342 %	98.179 %	97.985 %	98.702 %	98.307 %	99.596 %	102.927 %	
Concentration RSD	2.9 %	2.2 %	3.7 %	2.7 %	2.1 %	2.8 %	2.1 %	2.5 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.330 ppb	61.871 ppb	63.923 ppb	59.718 ppb	65.590 %	59.638 ppb	59.763 ppb	69.491 %	60.451 ppb
Concentration per Run 1	59.073 ppb	59.290 ppb	61.818 ppb	57.877 ppb	65.285 %	58.511 ppb	58.606 ppb	68.668 %	58.948 ppb
Concentration per Run 2	60.286 ppb	63.433 ppb	65.534 ppb	60.292 ppb	66.445 %	59.572 ppb	59.785 ppb	72.120 %	60.856 ppb
Concentration per Run 3	61.630 ppb	62.890 ppb	64.416 ppb	60.984 ppb	65.039 %	60.832 ppb	60.899 ppb	67.683 %	61.550 ppb
Recovery Percentage 1	100.550 %	103.118 %	106.538 %	99.530 %		99.397 %	99.605 %		100.752 %
Concentration RSD	2.1 %	3.6 %	3.0 %	2.7 %	1.1 %	1.9 %	1.9 %	3.4 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	61.000 ppb	72.951 %	75.128 %	59.922 ppb	61.418 ppb	72.468 %
Concentration per Run 1	60.084 ppb	71.202 %	73.296 %	57.548 ppb	60.217 ppb	71.208 %
Concentration per Run 2	61.512 ppb	74.295 %	77.486 %	60.470 ppb	61.962 ppb	73.216 %
Concentration per Run 3	61.405 ppb	73.355 %	74.602 %	61.749 ppb	62.077 ppb	72.981 %
Recovery Percentage 1	101.667 %			99.870 %	102.364 %	
Concentration RSD	1.3 %	2.2 %	2.9 %	3.6 %	1.7 %	1.5 %

Alpha ICPMSQ2 Data

8/9/2023 3:52:54 PM



Analysis index: 124 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/9/2023 3:44:44 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	58.875 %	63.884 %	0.016 ppb	2.175 ppb	-0.157 ppb	0.523 ppb	5.181 ppb	-1.451 ppb	60.346 %
Concentration per Run 1	58.355 %	64.045 %	0.022 ppb	2.544 ppb	-0.376 ppb	0.429 ppb	1.914 ppb	-1.433 ppb	60.037 %
Concentration per Run 2	58.854 %	64.045 %	0.012 ppb	1.649 ppb	-0.379 ppb	0.812 ppb	6.477 ppb	-0.124 ppb	60.149 %
Concentration per Run 3	59.414 %	63.563 %	0.014 ppb	2.331 ppb	0.284 ppb	0.328 ppb	7.150 ppb	-2.795 ppb	60.852 %
Recovery Percentage 1			3.227 %	2.175 %	-0.225 %	5.232 %	5.181 %	-1.451 %	
Concentration RSD	0.9 %	0.4 %	32.2 %	21.5 %	242.8 %	48.7 %	55.0 %	92.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.020 ppb	0.017 ppb	0.046 ppb	9.680 ppb	0.003 ppb	0.045 ppb	0.046 ppb	0.330 ppb	65.845 %
Concentration per Run 1	-0.011 ppb	0.005 ppb	0.031 ppb	9.267 ppb	0.008 ppb	0.038 ppb	0.063 ppb	0.321 ppb	64.642 %
Concentration per Run 2	-0.038 ppb	0.023 ppb	0.066 ppb	7.194 ppb	0.003 ppb	0.070 ppb	0.017 ppb	0.375 ppb	67.033 %
Concentration per Run 3	-0.011 ppb	0.023 ppb	0.042 ppb	12.580 ppb	-0.002 ppb	0.027 ppb	0.057 ppb	0.295 ppb	65.859 %
Recovery Percentage 1	-0.400 %	1.707 %	4.630 %	19.360 %	0.670 %	2.242 %	4.557 %	6.605 %	
Concentration RSD	80.1 %	59.0 %	38.4 %	28.1 %	149.8 %	49.4 %	55.6 %	12.4 %	1.8 %

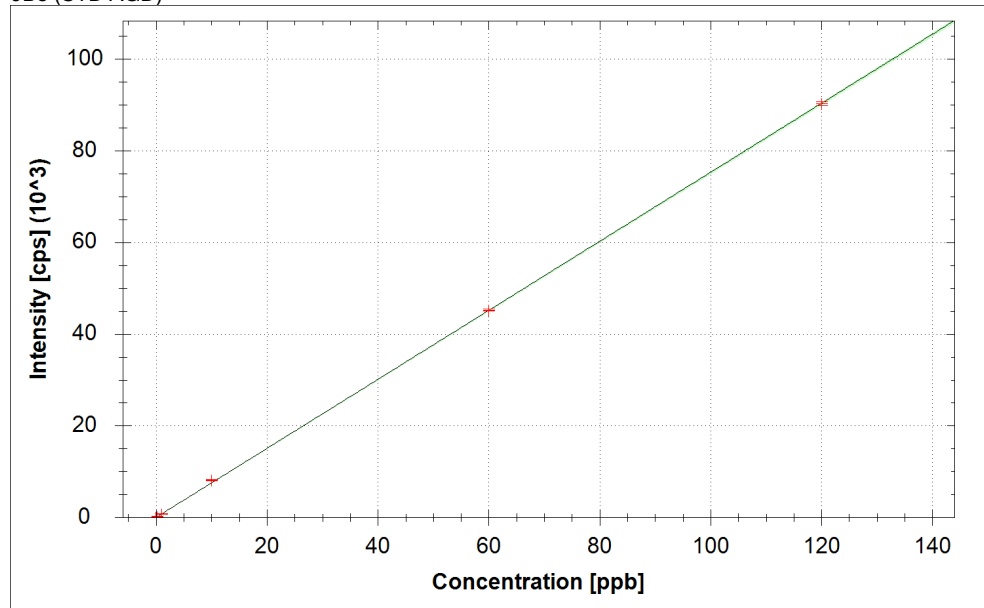
Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.022 ppb	0.093 ppb	0.004 ppb	0.128 ppb	67.390 %	0.003 ppb	0.000 ppb	71.237 %	0.035 ppb
Concentration per Run 1	0.017 ppb	0.113 ppb	0.005 ppb	0.092 ppb	67.135 %	0.004 ppb	0.000 ppb	70.610 %	0.038 ppb
Concentration per Run 2	0.016 ppb	0.119 ppb	0.002 ppb	0.129 ppb	67.946 %	0.003 ppb	0.001 ppb	73.492 %	0.030 ppb
Concentration per Run 3	0.034 ppb	0.048 ppb	0.005 ppb	0.162 ppb	67.089 %	0.003 ppb	0.001 ppb	69.608 %	0.037 ppb
Recovery Percentage 1	4.424 %	1.868 %	0.038 %	6.384 %		0.814 %	0.242 %		0.885 %
Concentration RSD	46.3 %	42.2 %	50.4 %	27.3 %	0.7 %	28.8 %	135.4 %	2.8 %	12.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.021 ppb	73.310 %	74.707 %	0.370 ppb	0.008 ppb	76.094 %
Concentration per Run 1	0.017 ppb	71.889 %	72.684 %	0.360 ppb	0.008 ppb	74.705 %
Concentration per Run 2	0.016 ppb	74.100 %	76.782 %	0.416 ppb	0.009 ppb	75.983 %
Concentration per Run 3	0.030 ppb	73.941 %	74.655 %	0.335 ppb	0.007 ppb	77.593 %
Recovery Percentage 1	4.244 %			37.036 %	0.814 %	
Concentration RSD	37.1 %	1.7 %	2.7 %	11.3 %	8.3 %	1.9 %



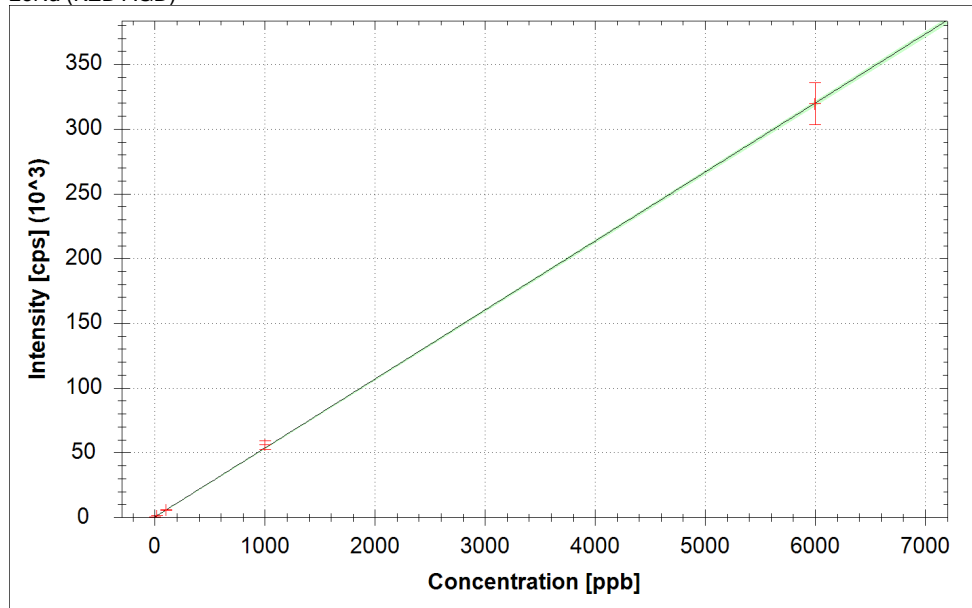
Calibration Curves:

9Be (STD AGD)



$f(x) = 752.7416 \cdot x + 11.1138$
 $R^2 = 1.0000$
BEC = 0.015 ppb
LoD = 0.0033 ppb

23Na (KED AGD)



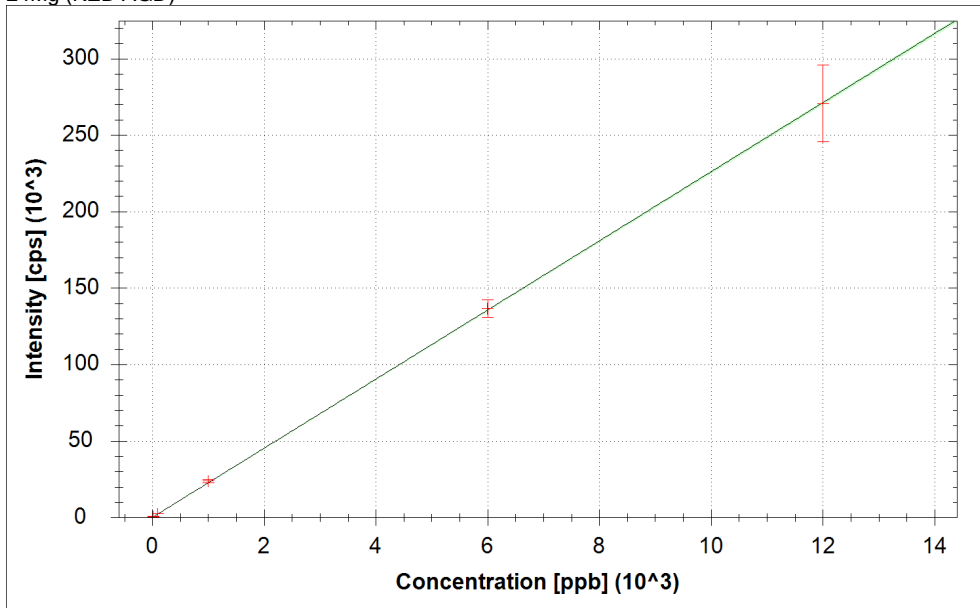
$f(x) = 53.2565 \cdot x + 327.9021$
 $R^2 = 0.9999$
BEC = 6.157 ppb
LoD = 0.2197 ppb

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM

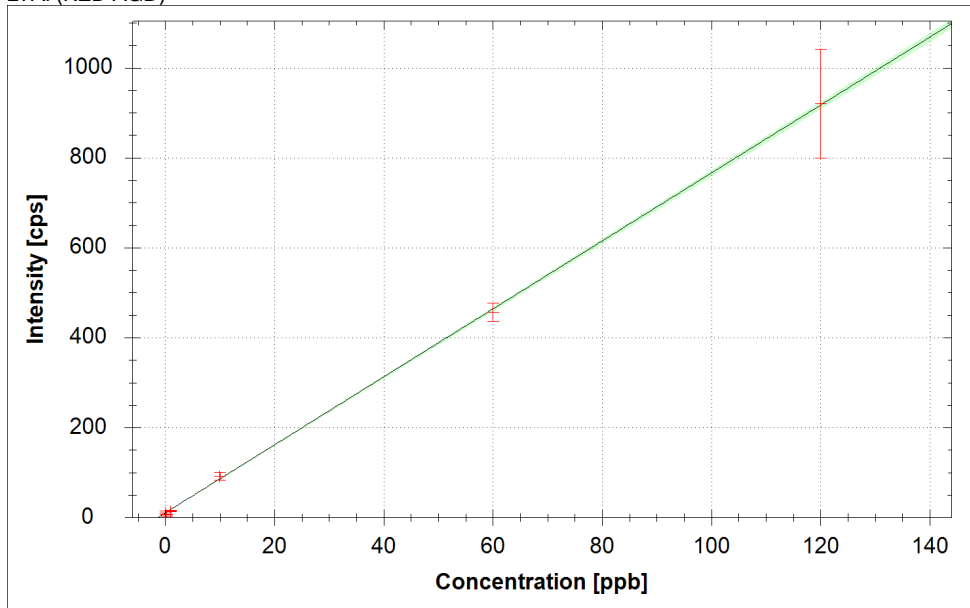


24Mg (KED AGD)



$f(x) = 22.5874 \cdot x + 50.6909$
 $R^2 = 1.0000$
BEC = 2.244 ppb
LoD = 1.7672 ppb

27Al (KED AGD)



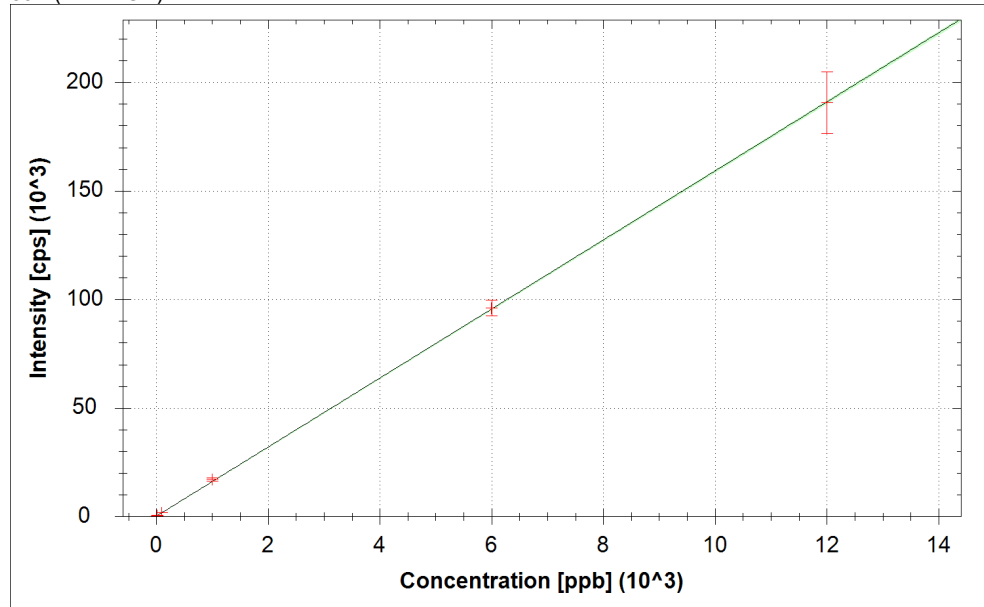
$f(x) = 7.5547 \cdot x + 10.3436$
 $R^2 = 0.9998$
BEC = 1.369 ppb
LoD = 1.3952 ppb

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM

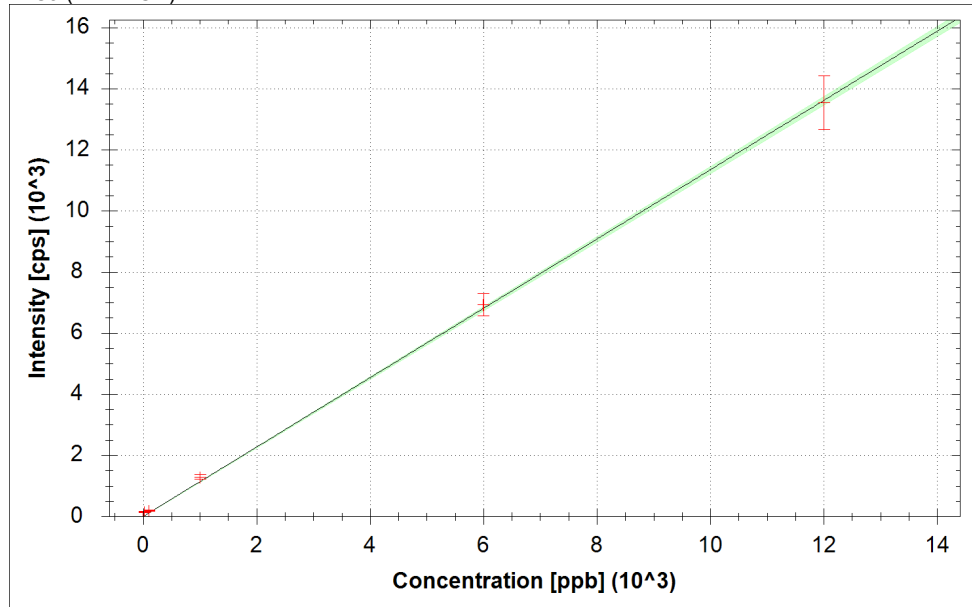


39K (KED AGD)



$f(x) = 15.8989x + 152.1500$
 $R^2 = 1.0000$
BEC = 9.570 ppb
LoD = 9.4795 ppb

44Ca (KED AGD)



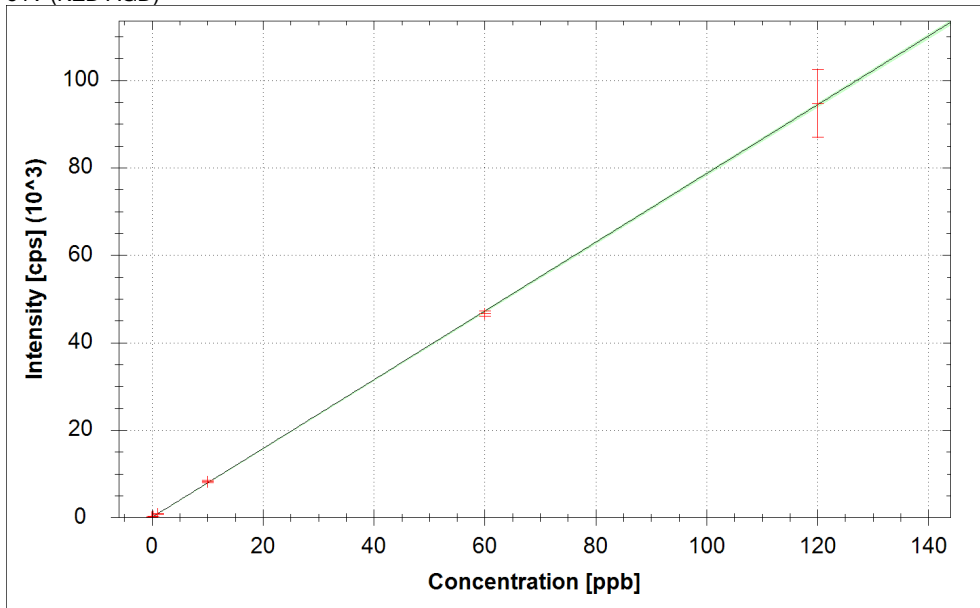
$f(x) = 1.1342x + 1.8981$
 $R^2 = 0.9996$
BEC = 1.673 ppb
LoD = 2.0837 ppb

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM

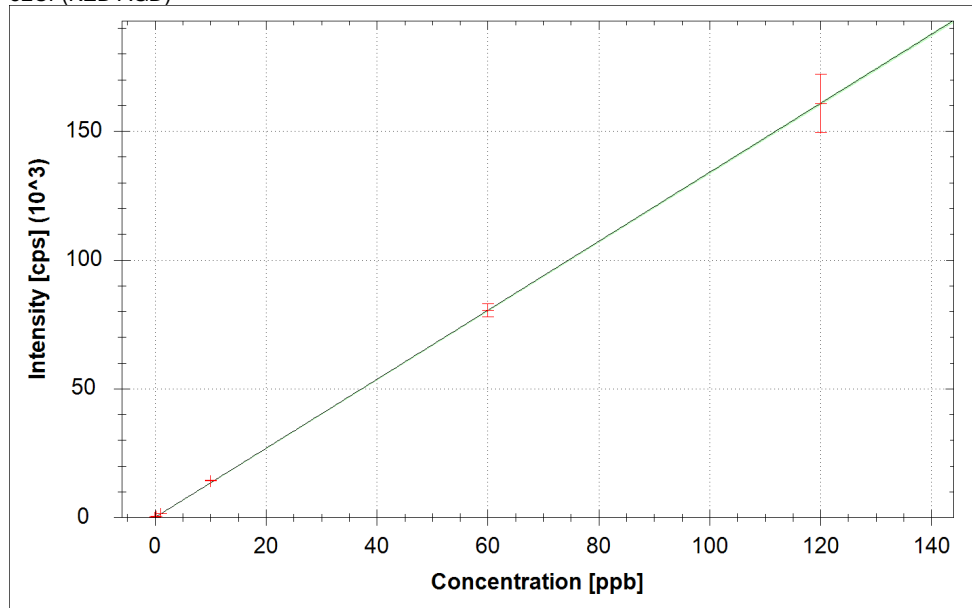


51V (KED AGD)



$f(x) = 786.1067 \cdot x + 41.9268$
 $R^2 = 0.9999$
BEC = 0.053 ppb
LoD = 0.0482 ppb

52Cr (KED AGD)



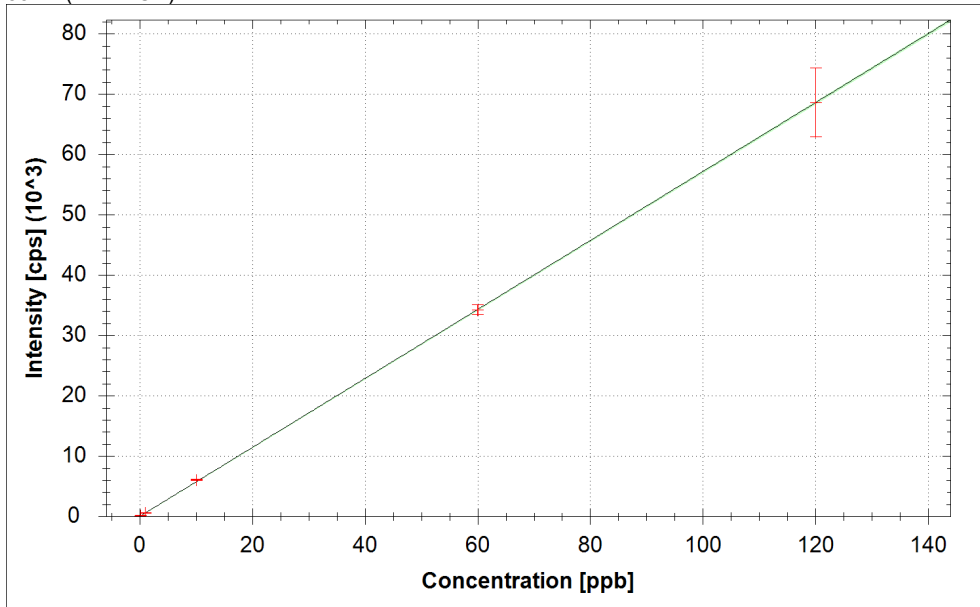
$f(x) = 1339.1941 \cdot x + 44.2397$
 $R^2 = 1.0000$
BEC = 0.033 ppb
LoD = 0.0233 ppb

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM

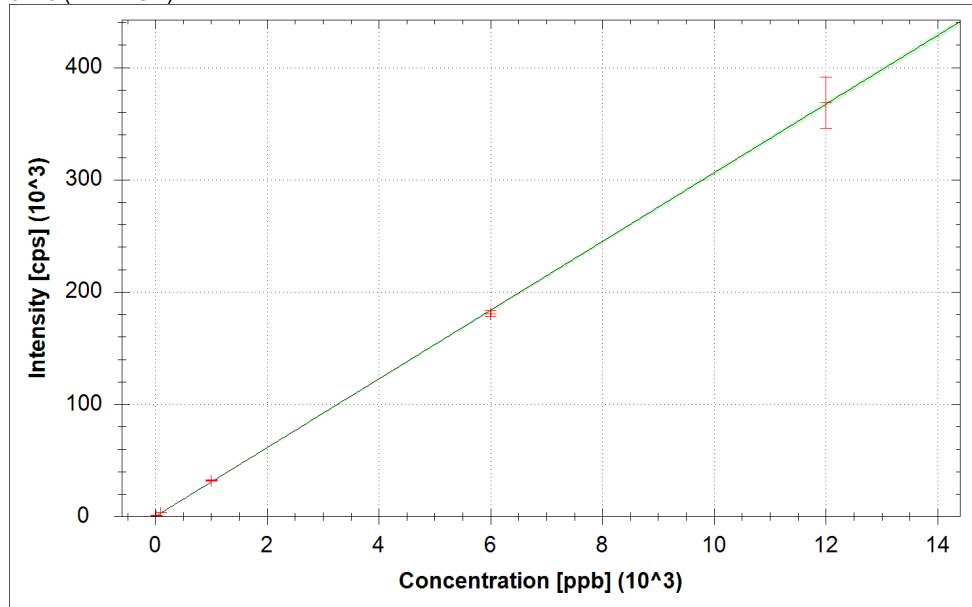


55Mn (KED AGD)



$f(x) = 571.1435x + 24.4978$
 $R^2 = 1.0000$
BEC = 0.043 ppb
LoD = 0.0222 ppb

57Fe (KED AGD)



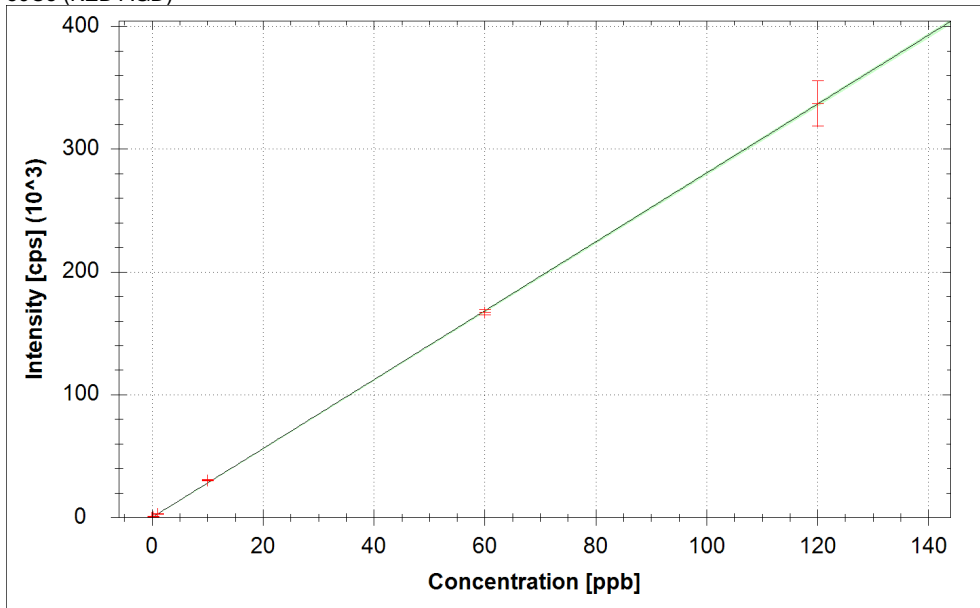
$f(x) = 30.5946x + 77.1195$
 $R^2 = 0.9999$
BEC = 2.521 ppb
LoD = 3.0424 ppb

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM

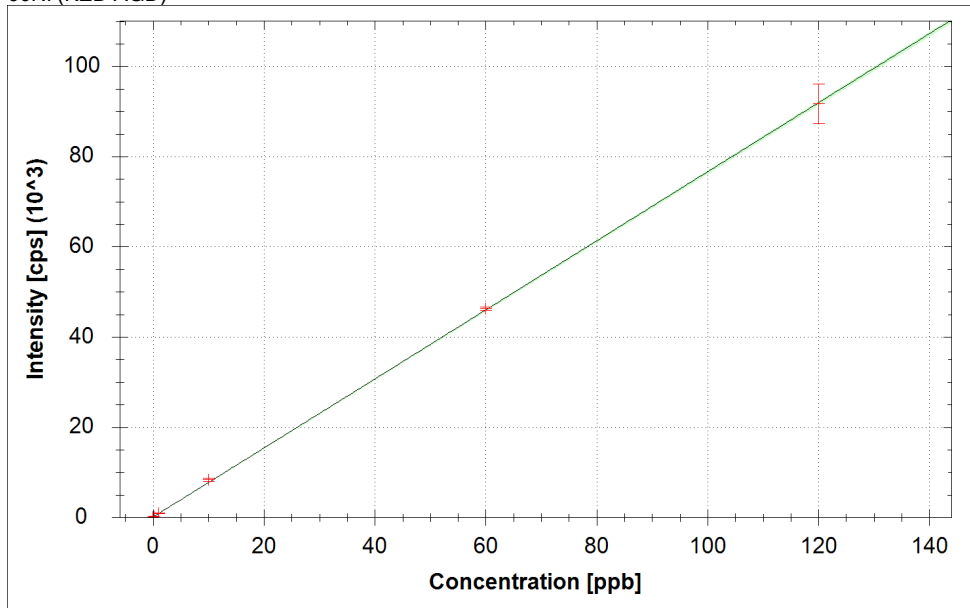


59Co (KED AGD)



$f(x) = 2803.5425 \cdot x + 6.6718$
 $R^2 = 0.9999$
BEC = 0.002 ppb
LoD = 0.0002 ppb

60Ni (KED AGD)



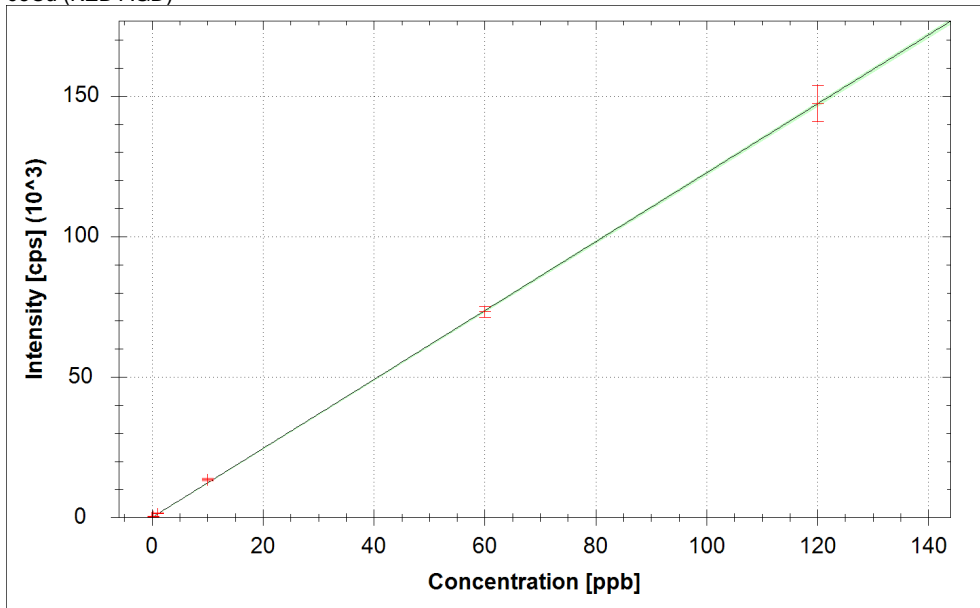
$f(x) = 765.0228 \cdot x + 95.2181$
 $R^2 = 0.9999$
BEC = 0.124 ppb
LoD = 0.0651 ppb

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM

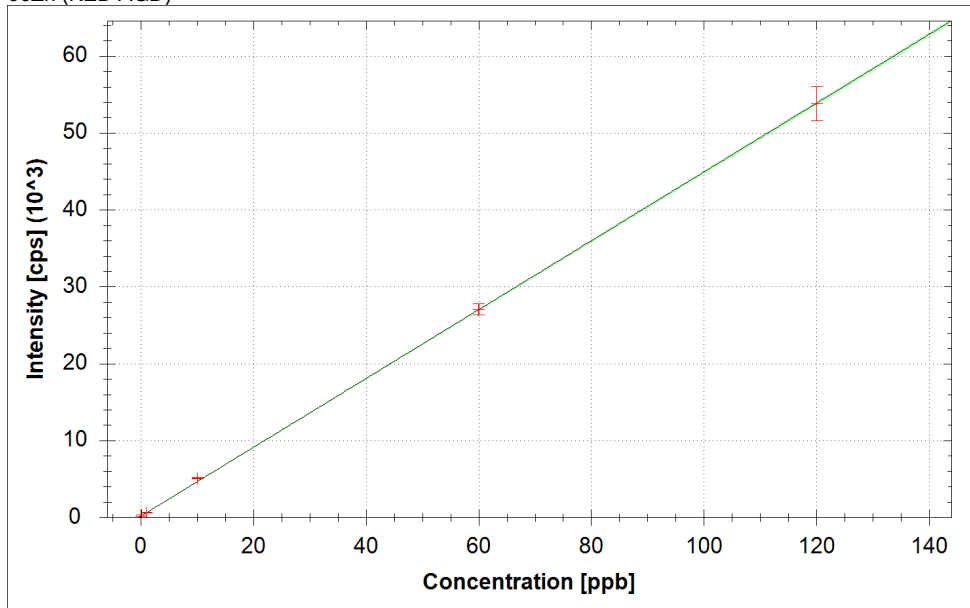


65Cu (KED AGD)



$f(x) = 1226.3474 * x + 21.7938$
 $R^2 = 0.9999$
BEC = 0.018 ppb
LoD = 0.0485 ppb

66Zn (KED AGD)



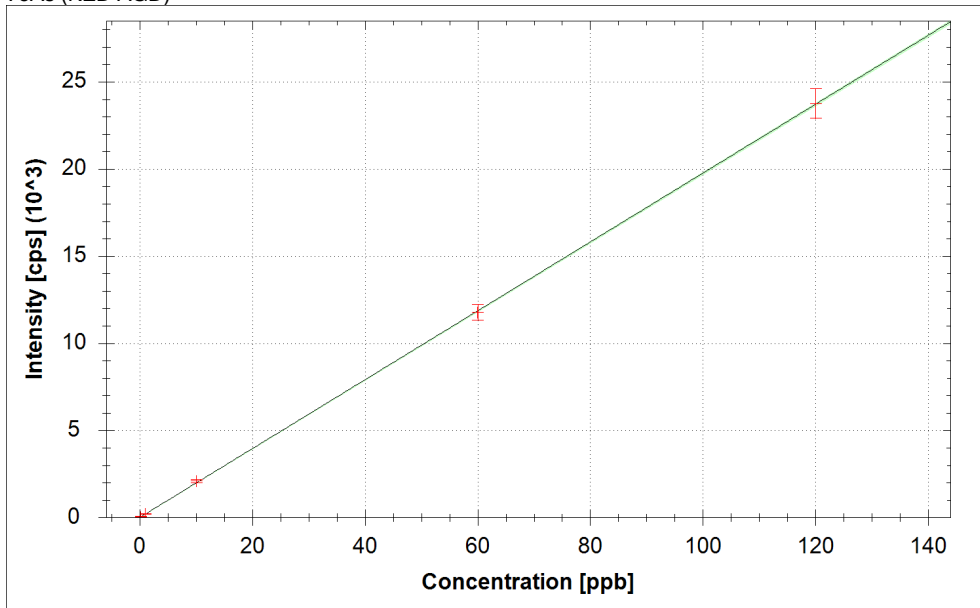
$f(x) = 447.2627 * x + 174.4026$
 $R^2 = 0.9999$
BEC = 0.390 ppb
LoD = 0.0625 ppb

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM

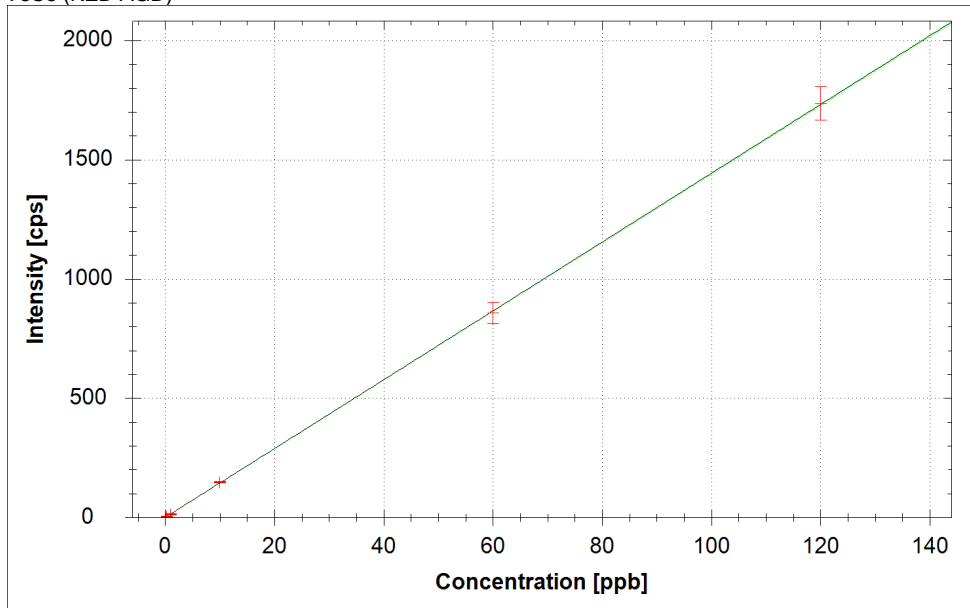


75As (KED AGD)



$f(x) = 197.5241 \cdot x + 3.8407$
 $R^2 = 1.0000$
BEC = 0.019 ppb
LoD = 0.0362 ppb

78Se (KED AGD)



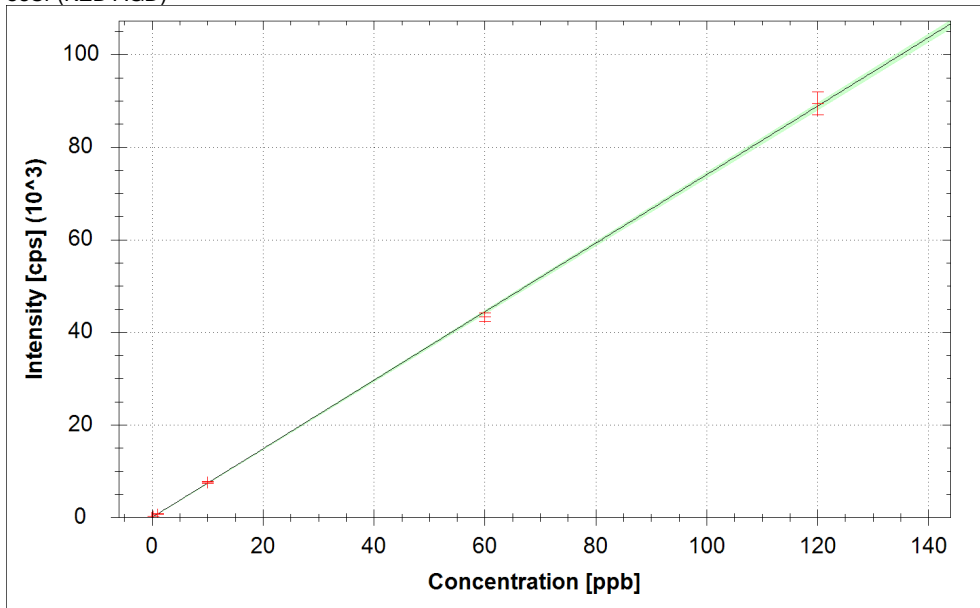
$f(x) = 14.4202 \cdot x + 0.3465$
 $R^2 = 1.0000$
BEC = 0.024 ppb
LoD = 0.0325 ppb

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM

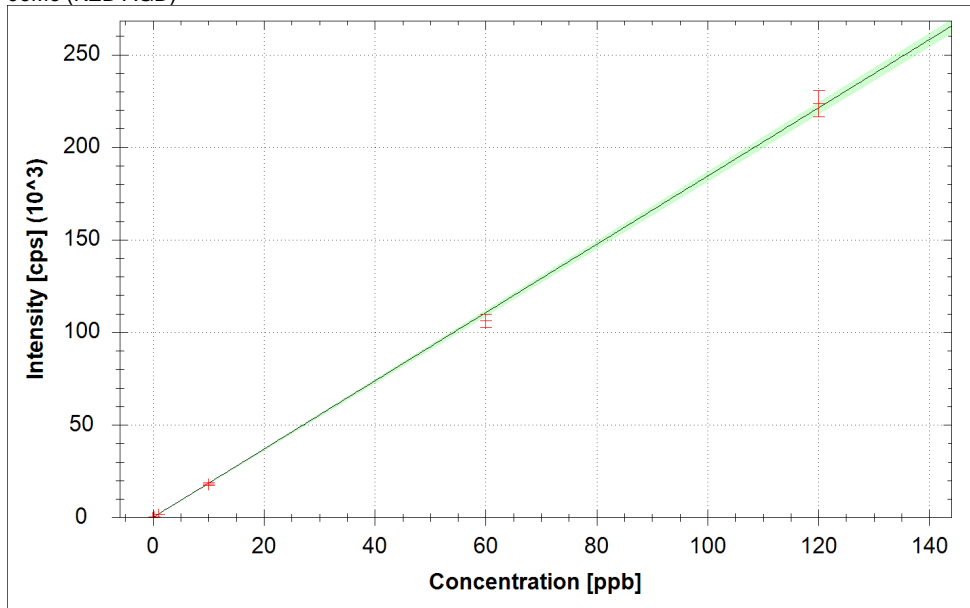


88Sr (KED AGD)



$f(x) = 740.0661 \cdot x + 20.1925$
 $R^2 = 0.9998$
BEC = 0.027 ppb
LoD = 0.0132 ppb

95Mo (KED AGD)



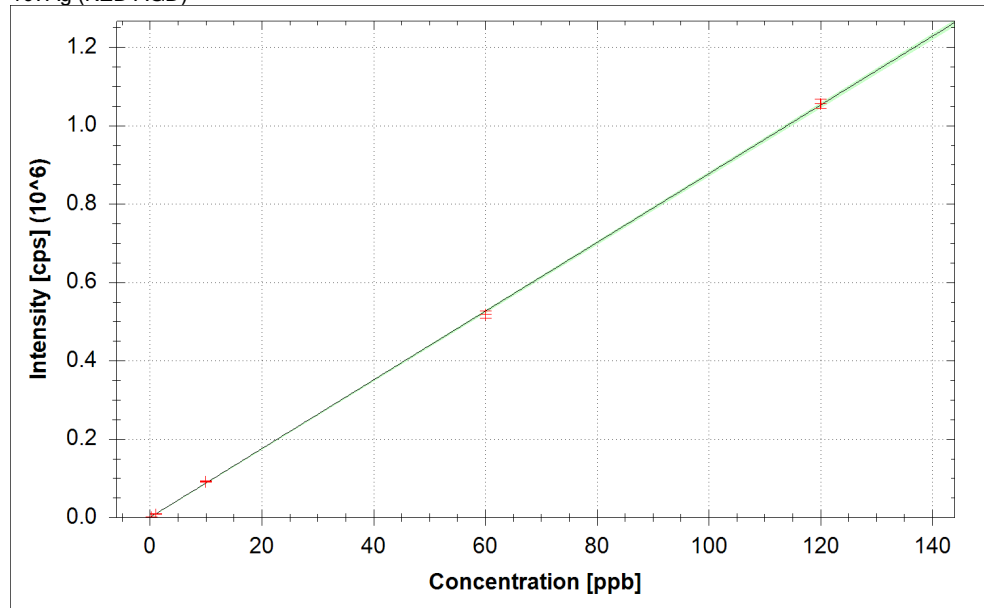
$f(x) = 1842.8883 \cdot x + 30.9728$
 $R^2 = 0.9994$
BEC = 0.017 ppb
LoD = 0.0216 ppb

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM

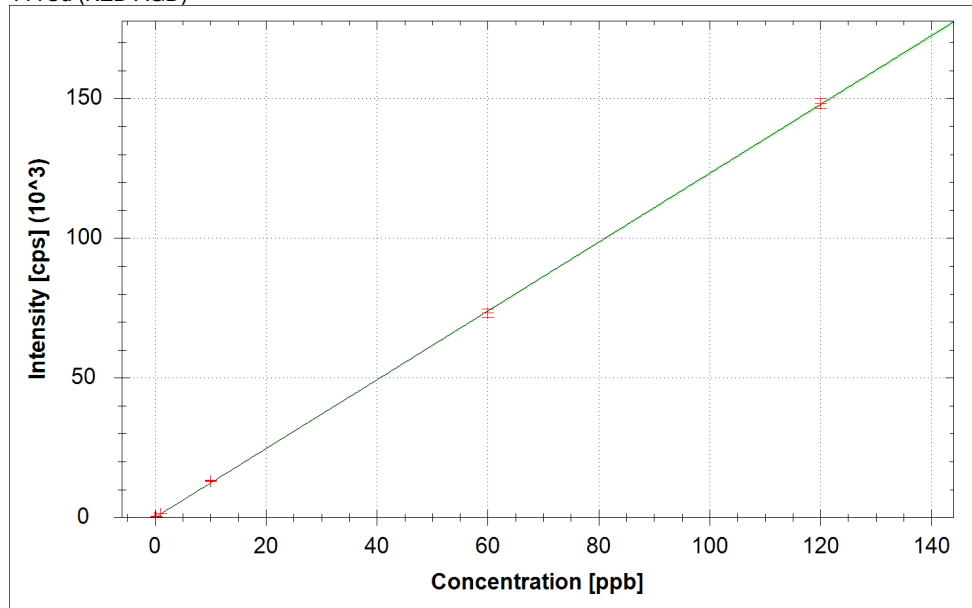


107Ag (KED AGD)



$f(x) = 8766.9460 \cdot x + 8.8524$
 $R^2 = 0.9999$
BEC = 0.001 ppb
LoD = 0.0013 ppb

111Cd (KED AGD)



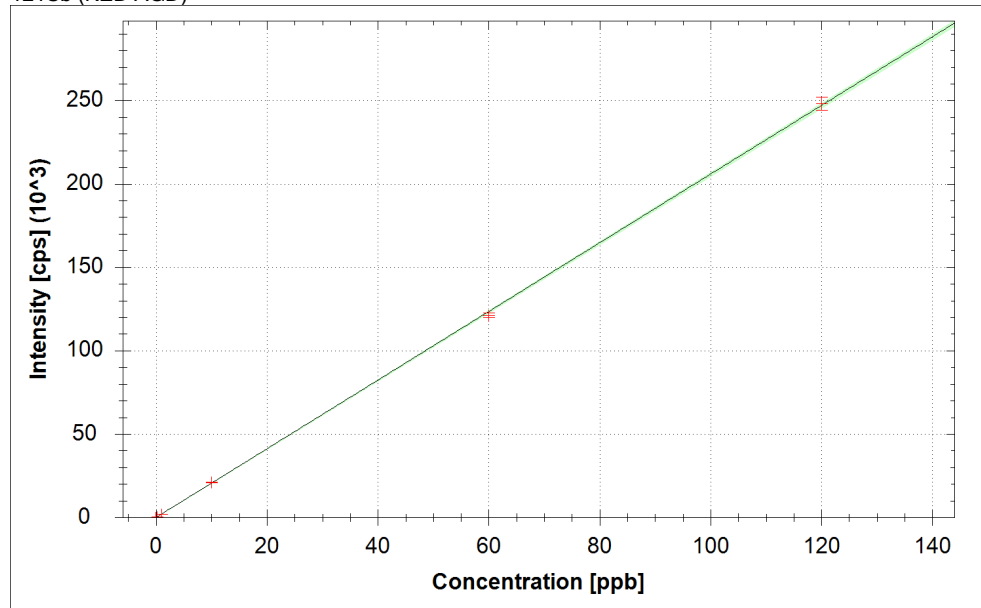
$f(x) = 1231.7216 \cdot x + 1.3398$
 $R^2 = 0.9999$
BEC = 0.001 ppb
LoD = 0.0033 ppb

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM

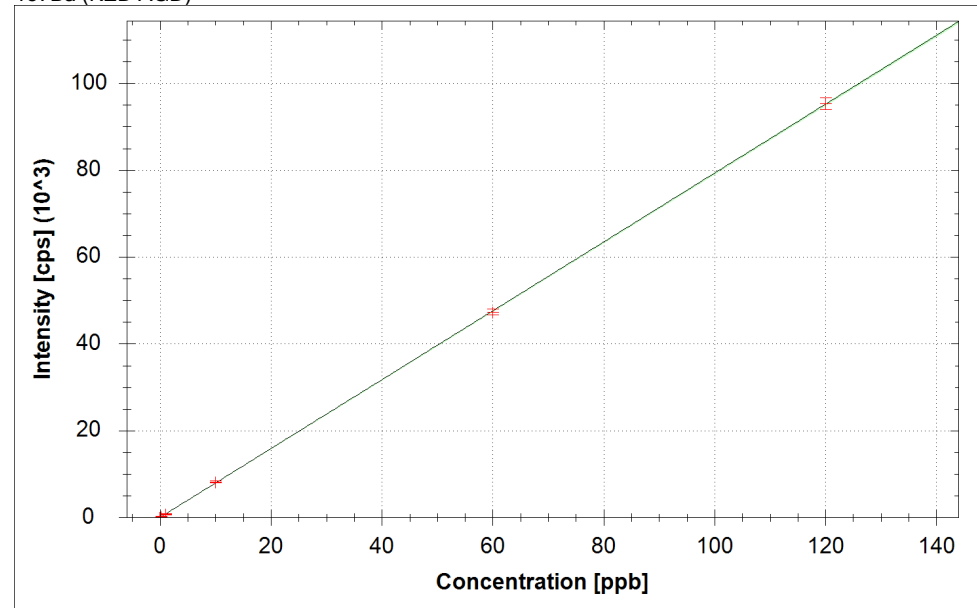


121Sb (KED AGD)



$f(x) = 2057.7558 \cdot x + 16.8026$
 $R^2 = 0.9999$
BEC = 0.008 ppb
LoD = 0.0072 ppb

137Ba (KED AGD)



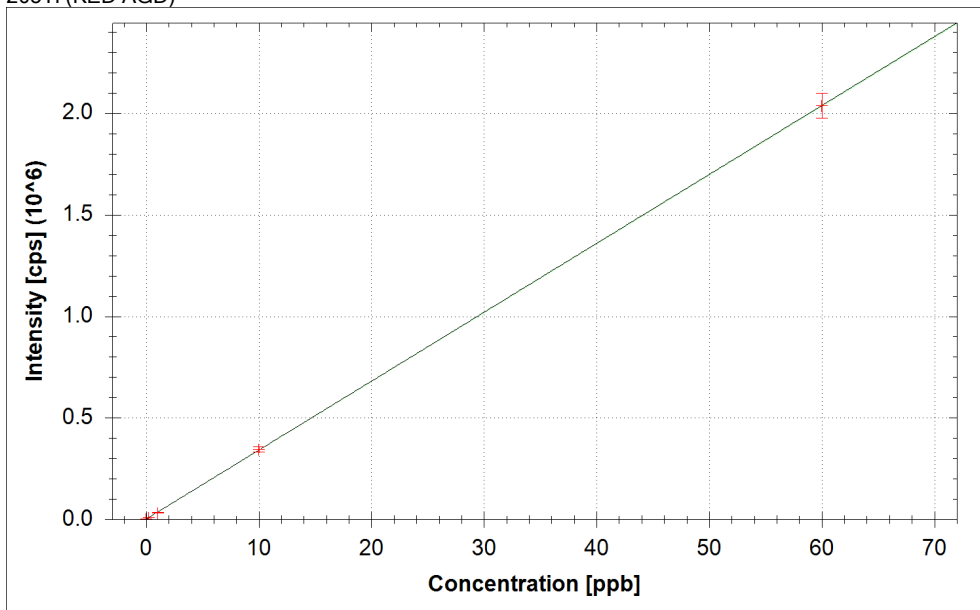
$f(x) = 792.8584 \cdot x + 9.9679$
 $R^2 = 1.0000$
BEC = 0.013 ppb
LoD = 0.0119 ppb

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM

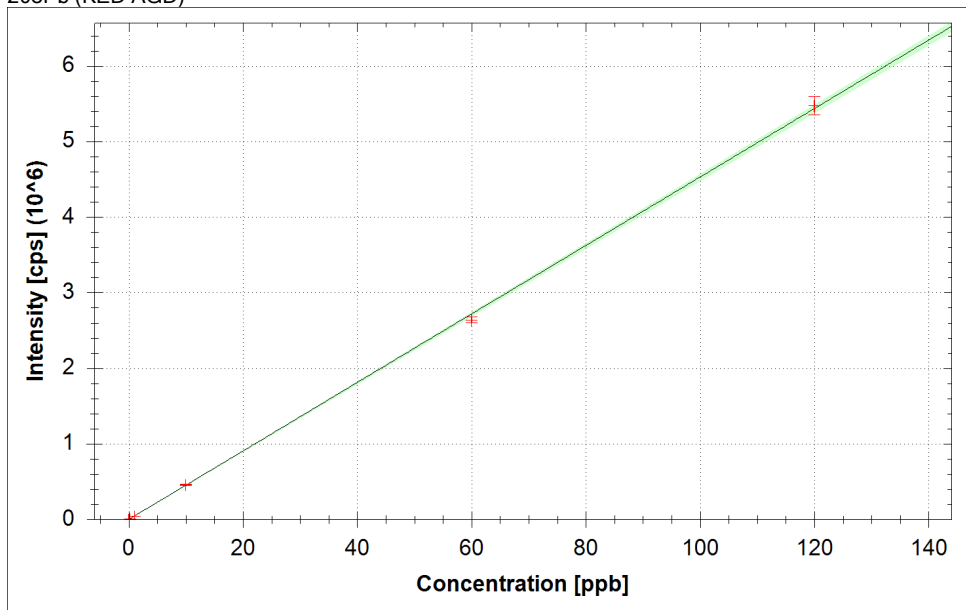


205TI (KED AGD)



$f(x) = 33922.9507 \cdot x + 2052.6260$
 $R^2 = 1.0000$
BEC = 0.061 ppb
LoD = 0.0459 ppb

208Pb (KED AGD)



$f(x) = 45284.8124 \cdot x + 270.7637$
 $R^2 = 0.9997$
BEC = 0.006 ppb
LoD = 0.0020 ppb

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Standards:

Analysis Index: 4
 Analysis Name: 0.2/20 Cal
 Analysis Type: STD
 Analysis Started at: 8/9/2023 4:03:26 PM
 Total Dilution Factor: 50000
 Rack: 0
 Vial: 2

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	100.251 %	1.0 %	
6Li (KED AGD)	93.163 %	3.2 %	
9Be (STD AGD)	0.190 ppb	15.1 %	0.200 ppb
23Na (KED AGD)	21.130 ppb	6.7 %	20.000 ppb
24Mg (KED AGD)	22.951 ppb	18.0 %	20.000 ppb
27Al (KED AGD)	-0.696 ppb	39.1 %	0.200 ppb
39K (KED AGD)	19.046 ppb	30.5 %	20.000 ppb
44Ca (KED AGD)	117.264 ppb	15.4 %	20.000 ppb
45Sc (STD AGD)	100.319 %	0.5 %	
51V (KED AGD)	0.199 ppb	6.1 %	0.200 ppb
52Cr (KED AGD)	0.214 ppb	3.4 %	0.200 ppb
55Mn (KED AGD)	0.232 ppb	7.3 %	0.200 ppb
57Fe (KED AGD)	19.315 ppb	12.2 %	20.000 ppb
59Co (KED AGD)	0.221 ppb	5.3 %	0.200 ppb
60Ni (KED AGD)	0.258 ppb	3.7 %	0.200 ppb
65Cu (KED AGD)	0.214 ppb	1.3 %	0.200 ppb
66Zn (KED AGD)	0.330 ppb	21.5 %	0.200 ppb
74Ge (KED AGD)	101.133 %	0.6 %	
75As (KED AGD)	0.193 ppb	25.5 %	0.200 ppb
78Se (KED AGD)	0.247 ppb	32.9 %	0.200 ppb
88Sr (KED AGD)	0.224 ppb	4.0 %	0.200 ppb
95Mo (KED AGD)	0.172 ppb	11.3 %	0.200 ppb
103Rh (KED AGD)	99.529 %	1.6 %	
107Ag (KED AGD)	0.221 ppb	4.1 %	0.200 ppb
111Cd (KED AGD)	0.216 ppb	8.0 %	0.200 ppb
115In (KED AGD)	96.797 %	2.7 %	
121Sb (KED AGD)	0.207 ppb	4.3 %	0.200 ppb
137Ba (KED AGD)	0.213 ppb	7.2 %	0.200 ppb
159Tb (KED AGD)	98.115 %	1.8 %	
175Lu (KED AGD)	98.260 %	0.8 %	
205Tl (KED AGD)	0.191 ppb	9.6 %	0.200 ppb
208Pb (KED AGD)	0.206 ppb	3.3 %	0.200 ppb
209Bi (KED AGD)	99.122 %	2.3 %	

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Standards:

Analysis Index: 5
 Analysis Name: 1/100 Cal
 Analysis Type: STD
 Analysis Started at: 8/9/2023 4:07:54 PM
 Total Dilution Factor: 10000
 Rack: 0
 Vial: 3

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	101.430 %	0.6 %	
6Li (KED AGD)	93.859 %	1.3 %	
9Be (STD AGD)	0.954 ppb	3.1 %	1.000 ppb
23Na (KED AGD)	102.938 ppb	2.5 %	100.000 ppb
24Mg (KED AGD)	108.166 ppb	4.8 %	100.000 ppb
27Al (KED AGD)	0.418 ppb	46.8 %	1.000 ppb
39K (KED AGD)	98.427 ppb	2.6 %	100.000 ppb
44Ca (KED AGD)	165.360 ppb	9.8 %	100.000 ppb
45Sc (STD AGD)	101.854 %	1.1 %	
51V (KED AGD)	0.942 ppb	8.5 %	1.000 ppb
52Cr (KED AGD)	1.013 ppb	4.8 %	1.000 ppb
55Mn (KED AGD)	1.017 ppb	8.0 %	1.000 ppb
57Fe (KED AGD)	106.656 ppb	3.9 %	100.000 ppb
59Co (KED AGD)	1.024 ppb	5.1 %	1.000 ppb
60Ni (KED AGD)	1.117 ppb	8.0 %	1.000 ppb
65Cu (KED AGD)	1.139 ppb	4.8 %	1.000 ppb
66Zn (KED AGD)	1.026 ppb	5.2 %	1.000 ppb
74Ge (KED AGD)	99.146 %	3.1 %	
75As (KED AGD)	1.007 ppb	3.7 %	1.000 ppb
78Se (KED AGD)	0.878 ppb	32.1 %	1.000 ppb
88Sr (KED AGD)	0.964 ppb	3.5 %	1.000 ppb
95Mo (KED AGD)	0.874 ppb	7.0 %	1.000 ppb
103Rh (KED AGD)	99.254 %	1.4 %	
107Ag (KED AGD)	0.986 ppb	1.6 %	1.000 ppb
111Cd (KED AGD)	1.019 ppb	2.0 %	1.000 ppb
115In (KED AGD)	97.702 %	1.9 %	
121Sb (KED AGD)	0.935 ppb	2.5 %	1.000 ppb
137Ba (KED AGD)	0.904 ppb	14.2 %	1.000 ppb
159Tb (KED AGD)	99.681 %	2.6 %	
175Lu (KED AGD)	97.939 %	3.7 %	
205Tl (KED AGD)	0.902 ppb	7.4 %	1.000 ppb
208Pb (KED AGD)	0.942 ppb	1.4 %	1.000 ppb
209Bi (KED AGD)	99.550 %	2.2 %	

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Standards:

Analysis Index: 6
 Analysis Name: 10/1000 Cal
 Analysis Type: STD
 Analysis Started at: 8/9/2023 4:12:22 PM
 Total Dilution Factor: 1000
 Rack: 0
 Vial: 4

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	99.971 %	0.6 %	
6Li (KED AGD)	98.262 %	8.7 %	
9Be (STD AGD)	10.699 ppb	1.6 %	10.000 ppb
23Na (KED AGD)	1,043.852 ppb	6.1 %	1,000.000 ppb
24Mg (KED AGD)	1,048.879 ppb	4.2 %	1,000.000 ppb
27Al (KED AGD)	10.731 ppb	10.3 %	10.000 ppb
39K (KED AGD)	1,062.635 ppb	4.8 %	1,000.000 ppb
44Ca (KED AGD)	1,132.868 ppb	5.7 %	1,000.000 ppb
45Sc (STD AGD)	101.639 %	1.4 %	
51V (KED AGD)	10.442 ppb	3.5 %	10.000 ppb
52Cr (KED AGD)	10.609 ppb	0.9 %	10.000 ppb
55Mn (KED AGD)	10.574 ppb	2.5 %	10.000 ppb
57Fe (KED AGD)	1,039.058 ppb	1.6 %	1,000.000 ppb
59Co (KED AGD)	10.747 ppb	1.5 %	10.000 ppb
60Ni (KED AGD)	10.789 ppb	4.7 %	10.000 ppb
65Cu (KED AGD)	10.979 ppb	3.8 %	10.000 ppb
66Zn (KED AGD)	10.963 ppb	1.3 %	10.000 ppb
74Ge (KED AGD)	101.619 %	2.3 %	
75As (KED AGD)	10.516 ppb	3.8 %	10.000 ppb
78Se (KED AGD)	10.276 ppb	1.7 %	10.000 ppb
88Sr (KED AGD)	10.173 ppb	2.5 %	10.000 ppb
95Mo (KED AGD)	9.818 ppb	3.8 %	10.000 ppb
103Rh (KED AGD)	99.084 %	0.5 %	
107Ag (KED AGD)	10.539 ppb	1.8 %	10.000 ppb
111Cd (KED AGD)	10.549 ppb	2.0 %	10.000 ppb
115In (KED AGD)	98.435 %	1.1 %	
121Sb (KED AGD)	10.210 ppb	1.0 %	10.000 ppb
137Ba (KED AGD)	10.257 ppb	2.4 %	10.000 ppb
159Tb (KED AGD)	100.398 %	2.0 %	
175Lu (KED AGD)	99.300 %	1.5 %	
205Tl (KED AGD)	10.079 ppb	3.9 %	10.000 ppb
208Pb (KED AGD)	10.038 ppb	2.1 %	10.000 ppb
209Bi (KED AGD)	98.576 %	1.6 %	

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 8/9/2023 4:16:51 PM
Total Dilution Factor: 166.6666666
Rack: 0
Vial: 5

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	94.201 %	0.9 %	
6Li (KED AGD)	91.541 %	5.5 %	
9Be (STD AGD)	60.059 ppb	0.5 %	60.000 ppb
23Na (KED AGD)	5,992.639 ppb	5.1 %	6,000.000 ppb
24Mg (KED AGD)	6,044.908 ppb	4.2 %	6,000.000 ppb
27Al (KED AGD)	59.007 ppb	4.5 %	60.000 ppb
39K (KED AGD)	6,030.992 ppb	3.8 %	6,000.000 ppb
44Ca (KED AGD)	6,101.375 ppb	5.2 %	6,000.000 ppb
45Sc (STD AGD)	97.907 %	0.5 %	
51V (KED AGD)	59.220 ppb	1.4 %	60.000 ppb
52Cr (KED AGD)	60.018 ppb	3.1 %	60.000 ppb
55Mn (KED AGD)	59.875 ppb	2.4 %	60.000 ppb
57Fe (KED AGD)	5,902.063 ppb	1.3 %	6,000.000 ppb
59Co (KED AGD)	59.548 ppb	1.4 %	60.000 ppb
60Ni (KED AGD)	60.348 ppb	0.7 %	60.000 ppb
65Cu (KED AGD)	59.639 ppb	2.8 %	60.000 ppb
66Zn (KED AGD)	60.045 ppb	2.6 %	60.000 ppb
74Ge (KED AGD)	97.659 %	2.8 %	
75As (KED AGD)	59.518 ppb	3.8 %	60.000 ppb
78Se (KED AGD)	59.403 ppb	5.3 %	60.000 ppb
88Sr (KED AGD)	58.464 ppb	2.1 %	60.000 ppb
95Mo (KED AGD)	57.516 ppb	3.4 %	60.000 ppb
103Rh (KED AGD)	93.505 %	0.4 %	
107Ag (KED AGD)	59.041 ppb	1.7 %	60.000 ppb
111Cd (KED AGD)	59.365 ppb	2.2 %	60.000 ppb
115In (KED AGD)	94.615 %	0.8 %	
121Sb (KED AGD)	58.882 ppb	1.2 %	60.000 ppb
137Ba (KED AGD)	59.588 ppb	1.4 %	60.000 ppb
159Tb (KED AGD)	98.283 %	0.7 %	
175Lu (KED AGD)	97.489 %	1.3 %	
205Tl (KED AGD)	59.989 ppb	3.0 %	60.000 ppb
208Pb (KED AGD)	58.269 ppb	1.5 %	60.000 ppb
209Bi (KED AGD)	93.979 %	1.8 %	

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Standards:

Analysis Index: 8
 Analysis Name: 120/12000 Cal
 Analysis Type: STD
 Analysis Started at: 8/9/2023 4:21:21 PM
 Total Dilution Factor: 83.3333333
 Rack: 0
 Vial: 6

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	88.791 %	0.3 %	
6Li (KED AGD)	88.181 %	12.4 %	
9Be (STD AGD)	119.913 ppb	0.5 %	120.000 ppb
23Na (KED AGD)	11,972.068 ppb	9.9 %	12,000.000 ppb
24Mg (KED AGD)	11,973.400 ppb	9.3 %	12,000.000 ppb
27Al (KED AGD)	120.442 ppb	13.3 %	120.000 ppb
39K (KED AGD)	11,979.299 ppb	7.4 %	12,000.000 ppb
44Ca (KED AGD)	11,937.533 ppb	6.5 %	12,000.000 ppb
45Sc (STD AGD)	92.774 %	1.1 %	
51V (KED AGD)	120.354 ppb	8.2 %	120.000 ppb
52Cr (KED AGD)	119.940 ppb	7.1 %	120.000 ppb
55Mn (KED AGD)	120.015 ppb	8.3 %	120.000 ppb
57Fe (KED AGD)	12,045.659 ppb	6.2 %	12,000.000 ppb
59Co (KED AGD)	120.164 ppb	5.5 %	120.000 ppb
60Ni (KED AGD)	119.759 ppb	4.8 %	120.000 ppb
65Cu (KED AGD)	120.098 ppb	4.4 %	120.000 ppb
66Zn (KED AGD)	119.897 ppb	4.2 %	120.000 ppb
74Ge (KED AGD)	91.350 %	3.6 %	
75As (KED AGD)	120.198 ppb	3.6 %	120.000 ppb
78Se (KED AGD)	120.277 ppb	4.0 %	120.000 ppb
88Sr (KED AGD)	120.754 ppb	2.8 %	120.000 ppb
95Mo (KED AGD)	121.258 ppb	3.2 %	120.000 ppb
103Rh (KED AGD)	86.979 %	0.8 %	
107Ag (KED AGD)	120.435 ppb	1.1 %	120.000 ppb
111Cd (KED AGD)	120.272 ppb	1.2 %	120.000 ppb
115In (KED AGD)	88.803 %	1.4 %	
121Sb (KED AGD)	120.542 ppb	1.6 %	120.000 ppb
137Ba (KED AGD)	120.185 ppb	1.5 %	120.000 ppb
159Tb (KED AGD)	92.396 %	1.0 %	
175Lu (KED AGD)	92.256 %	1.0 %	
205Tl (KED AGD)	138.221 ppb	3.9 %	120.000 ppb
208Pb (KED AGD)	120.863 ppb	2.2 %	120.000 ppb
209Bi (KED AGD)	87.456 %	0.7 %	

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 1 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: Rinse Rack 0
 Analysis started at: 8/9/2023 3:50:01 PM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.939 %	88.876 %	0.005 ppb	2.529 ppb	-0.537 ppb	2.022 ppb	1.604 ppb	6.915 ppb	96.229 %
Concentration per Run 1	96.880 %	93.859 %	0.016 ppb	2.371 ppb	-1.004 ppb	3.532 ppb	2.185 ppb	5.294 ppb	96.859 %
Concentration per Run 2	97.425 %	79.606 %	0.000 ppb	3.133 ppb	-1.180 ppb	1.474 ppb	1.619 ppb	10.113 ppb	96.372 %
Concentration per Run 3	96.513 %	93.163 %	-0.002 ppb	2.083 ppb	0.574 ppb	1.061 ppb	1.007 ppb	5.338 ppb	95.456 %
Concentration RSD	0.5 %	9.0 %	212.6 %	21.5 %	180.1 %	65.5 %	36.7 %	40.0 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.011 ppb	0.052 ppb	0.235 ppb	57.959 ppb	0.005 ppb	0.265 ppb	0.105 ppb	2.190 ppb	96.455 %
Concentration per Run 1	0.008 ppb	0.041 ppb	0.125 ppb	53.267 ppb	-0.002 ppb	0.169 ppb	0.121 ppb	2.193 ppb	98.922 %
Concentration per Run 2	0.052 ppb	0.071 ppb	0.284 ppb	64.704 ppb	0.016 ppb	0.252 ppb	0.077 ppb	2.243 ppb	93.192 %
Concentration per Run 3	-0.027 ppb	0.045 ppb	0.297 ppb	55.906 ppb	0.003 ppb	0.373 ppb	0.117 ppb	2.133 ppb	97.252 %
Concentration RSD	360.0 %	30.8 %	40.8 %	10.3 %	176.4 %	38.7 %	22.8 %	2.5 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.009 ppb	-0.015 ppb	0.004 ppb	0.027 ppb	96.300 %	0.001 ppb	0.000 ppb	96.595 %	0.044 ppb
Concentration per Run 1	-0.011 ppb	-0.035 ppb	0.002 ppb	0.027 ppb	97.650 %	-0.001 ppb	0.003 ppb	100.102 %	0.045 ppb
Concentration per Run 2	-0.010 ppb	0.021 ppb	0.002 ppb	0.029 ppb	95.429 %	0.001 ppb	-0.001 ppb	94.370 %	0.044 ppb
Concentration per Run 3	-0.006 ppb	-0.031 ppb	0.007 ppb	0.025 ppb	95.821 %	0.001 ppb	-0.001 ppb	95.312 %	0.044 ppb
Concentration RSD	26.6 %	205.6 %	70.3 %	8.3 %	1.2 %	182.7 %	688.0 %	3.2 %	1.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.048 ppb	98.348 %	97.891 %	0.069 ppb	0.007 ppb	97.342 %
Concentration per Run 1	0.047 ppb	98.984 %	99.402 %	0.060 ppb	0.007 ppb	97.469 %
Concentration per Run 2	0.049 ppb	97.197 %	95.789 %	0.088 ppb	0.007 ppb	95.566 %
Concentration per Run 3	0.048 ppb	98.865 %	98.483 %	0.059 ppb	0.008 ppb	98.992 %
Concentration RSD	2.5 %	1.0 %	1.9 %	24.4 %	7.4 %	1.8 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 2 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CAL LOT #M22-1194 Rack 0
 Analysis started at: 8/9/2023 3:54:27 PM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.244 %	96.640 %	-0.001 ppb	2.718 ppb	-1.226 ppb	1.507 ppb	1.150 ppb	6.039 ppb	98.832 %
Concentration per Run 1	99.303 %	91.078 %	0.001 ppb	2.870 ppb	-0.673 ppb	1.904 ppb	-0.421 ppb	4.082 ppb	99.131 %
Concentration per Run 2	98.871 %	98.030 %	-0.004 ppb	2.274 ppb	-1.943 ppb	1.423 ppb	4.984 ppb	8.881 ppb	98.387 %
Concentration per Run 3	99.558 %	100.811 %	-0.001 ppb	3.009 ppb	-1.063 ppb	1.196 ppb	-1.114 ppb	5.155 ppb	98.978 %
Concentration RSD	0.3 %	5.2 %	249.2 %	14.4 %	53.1 %	24.0 %	290.4 %	41.7 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.010 ppb	0.030 ppb	0.226 ppb	57.788 ppb	0.006 ppb	0.241 ppb	0.074 ppb	2.045 ppb	99.025 %
Concentration per Run 1	0.042 ppb	0.045 ppb	0.193 ppb	55.106 ppb	0.005 ppb	0.182 ppb	0.053 ppb	1.859 ppb	101.745 %
Concentration per Run 2	-0.001 ppb	0.013 ppb	0.255 ppb	63.128 ppb	0.015 ppb	0.312 ppb	0.071 ppb	2.214 ppb	97.891 %
Concentration per Run 3	-0.010 ppb	0.033 ppb	0.230 ppb	55.129 ppb	0.000 ppb	0.231 ppb	0.099 ppb	2.063 ppb	97.437 %
Concentration RSD	278.1 %	54.5 %	13.7 %	8.0 %	114.6 %	27.1 %	31.3 %	8.7 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.005 ppb	-0.016 ppb	-0.001 ppb	0.006 ppb	98.112 %	0.002 ppb	0.000 ppb	99.548 %	0.038 ppb
Concentration per Run 1	0.001 ppb	-0.031 ppb	0.000 ppb	0.012 ppb	98.595 %	0.003 ppb	0.001 ppb	101.711 %	0.036 ppb
Concentration per Run 2	-0.002 ppb	-0.033 ppb	-0.004 ppb	0.013 ppb	97.444 %	0.001 ppb	-0.001 ppb	99.949 %	0.039 ppb
Concentration per Run 3	-0.015 ppb	0.016 ppb	0.001 ppb	-0.006 ppb	98.298 %	0.002 ppb	0.000 ppb	96.985 %	0.038 ppb
Concentration RSD	162.1 %	175.0 %	216.5 %	163.5 %	0.6 %	68.6 %	203,388.6 %	2.4 %	4.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.061 ppb	99.759 %	99.495 %	0.016 ppb	0.007 ppb	99.106 %
Concentration per Run 1	0.063 ppb	98.008 %	98.290 %	-0.001 ppb	0.007 ppb	97.887 %
Concentration per Run 2	0.063 ppb	101.291 %	101.157 %	0.024 ppb	0.008 ppb	99.889 %
Concentration per Run 3	0.056 ppb	99.977 %	99.038 %	0.026 ppb	0.006 ppb	99.543 %
Concentration RSD	6.9 %	1.7 %	1.5 %	91.5 %	12.4 %	1.1 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 3 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: Blank WKP ICPMSQ2 Rack 4
 Analysis started at: 8/9/2023 3:58:54 PM Vial 49

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.1 %	0.1 %	0.0 %	0.3 %	0.3 %	0.3 %	0.4 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.3 %	0.2 %	0.2 %	0.4 %	0.0 %	0.2 %	0.9 %	0.1 %	0.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration RSD	0.6 %	0.5 %	0.2 %	0.4 %	0.0 %	0.4 %	1.0 %	0.0 %	0.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.3 %	0.0 %	0.0 %	0.3 %	0.1 %	0.0 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 4 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: 0.2/20 Cal Rack 0
 Analysis started at: 8/9/2023 4:03:26 PM Vial 2

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.251 %	93.163 %	0.190 ppb	21.130 ppb	22.951 ppb	-0.696 ppb	19.046 ppb	117.264 ppb	100.319 %
Concentration per Run 1	99.191 %	94.901 %	0.222 ppb	20.124 ppb	27.119 ppb	-0.640 ppb	23.005 ppb	98.393 ppb	100.820 %
Concentration per Run 2	101.181 %	94.901 %	0.182 ppb	22.743 ppb	18.877 ppb	-0.456 ppb	21.764 ppb	119.085 ppb	99.853 %
Concentration per Run 3	100.381 %	89.687 %	0.167 ppb	20.523 ppb	22.857 ppb	-0.991 ppb	12.369 ppb	134.313 ppb	100.283 %
Concentration RSD	1.0 %	3.2 %	15.1 %	6.7 %	18.0 %	39.1 %	30.5 %	15.4 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.199 ppb	0.214 ppb	0.232 ppb	19.315 ppb	0.221 ppb	0.258 ppb	0.214 ppb	0.330 ppb	101.133 %
Concentration per Run 1	0.195 ppb	0.221 ppb	0.251 ppb	16.765 ppb	0.215 ppb	0.269 ppb	0.216 ppb	0.258 ppb	100.941 %
Concentration per Run 2	0.213 ppb	0.206 ppb	0.228 ppb	21.420 ppb	0.235 ppb	0.252 ppb	0.211 ppb	0.400 ppb	100.653 %
Concentration per Run 3	0.190 ppb	0.214 ppb	0.218 ppb	19.761 ppb	0.214 ppb	0.253 ppb	0.216 ppb	0.332 ppb	101.807 %
Concentration RSD	6.1 %	3.4 %	7.3 %	12.2 %	5.3 %	3.7 %	1.3 %	21.5 %	0.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.193 ppb	0.247 ppb	0.224 ppb	0.172 ppb	99.529 %	0.221 ppb	0.216 ppb	96.797 %	0.207 ppb
Concentration per Run 1	0.148 ppb	0.178 ppb	0.227 ppb	0.176 ppb	98.908 %	0.227 ppb	0.208 ppb	95.824 %	0.201 ppb
Concentration per Run 2	0.186 ppb	0.225 ppb	0.214 ppb	0.151 ppb	98.308 %	0.226 ppb	0.236 ppb	94.826 %	0.203 ppb
Concentration per Run 3	0.246 ppb	0.337 ppb	0.231 ppb	0.190 ppb	101.372 %	0.211 ppb	0.204 ppb	99.742 %	0.217 ppb
Concentration RSD	25.5 %	32.9 %	4.0 %	11.3 %	1.6 %	4.1 %	8.0 %	2.7 %	4.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.213 ppb	98.115 %	98.260 %	0.191 ppb	0.206 ppb	99.122 %
Concentration per Run 1	0.215 ppb	96.514 %	97.418 %	0.170 ppb	0.198 ppb	97.810 %
Concentration per Run 2	0.197 ppb	97.861 %	98.400 %	0.201 ppb	0.208 ppb	97.805 %
Concentration per Run 3	0.227 ppb	99.970 %	98.962 %	0.202 ppb	0.211 ppb	101.750 %
Concentration RSD	7.2 %	1.8 %	0.8 %	9.6 %	3.3 %	2.3 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 5 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: 1/100 Cal Rack: 0
 Analysis started at: 8/9/2023 4:07:54 PM Vial: 3

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.430 %	93.859 %	0.954 ppb	102.938 ppb	108.166 ppb	0.418 ppb	98.427 ppb	165.360 ppb	101.854 %
Concentration per Run 1	102.146 %	93.511 %	0.983 ppb	100.430 ppb	103.151 ppb	0.598 ppb	99.925 ppb	151.937 ppb	103.037 %
Concentration per Run 2	101.121 %	92.816 %	0.955 ppb	105.631 ppb	113.420 ppb	0.210 ppb	95.445 ppb	183.268 ppb	101.650 %
Concentration per Run 3	101.024 %	95.249 %	0.923 ppb	102.752 ppb	107.927 ppb	0.445 ppb	99.909 ppb	160.874 ppb	100.874 %
Concentration RSD	0.6 %	1.3 %	3.1 %	2.5 %	4.8 %	46.8 %	2.6 %	9.8 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.942 ppb	1.013 ppb	1.017 ppb	106.656 ppb	1.024 ppb	1.117 ppb	1.139 ppb	1.026 ppb	99.146 %
Concentration per Run 1	0.884 ppb	1.033 ppb	1.062 ppb	105.543 ppb	0.994 ppb	1.193 ppb	1.195 ppb	1.059 ppb	95.748 %
Concentration per Run 2	1.034 ppb	0.957 ppb	0.923 ppb	111.221 ppb	0.994 ppb	1.018 ppb	1.087 ppb	1.055 ppb	99.864 %
Concentration per Run 3	0.909 ppb	1.048 ppb	1.066 ppb	103.202 ppb	1.085 ppb	1.142 ppb	1.135 ppb	0.964 ppb	101.827 %
Concentration RSD	8.5 %	4.8 %	8.0 %	3.9 %	5.1 %	8.0 %	4.8 %	5.2 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.007 ppb	0.878 ppb	0.964 ppb	0.874 ppb	99.254 %	0.986 ppb	1.019 ppb	97.702 %	0.935 ppb
Concentration per Run 1	0.980 ppb	0.693 ppb	1.000 ppb	0.806 ppb	98.245 %	0.967 ppb	0.996 ppb	96.628 %	0.918 ppb
Concentration per Run 2	0.991 ppb	0.738 ppb	0.933 ppb	0.926 ppb	98.715 %	0.994 ppb	1.026 ppb	96.686 %	0.961 ppb
Concentration per Run 3	1.050 ppb	1.202 ppb	0.960 ppb	0.889 ppb	100.801 %	0.996 ppb	1.035 ppb	99.793 %	0.926 ppb
Concentration RSD	3.7 %	32.1 %	3.5 %	7.0 %	1.4 %	1.6 %	2.0 %	1.9 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.904 ppb	99.681 %	97.939 %	0.902 ppb	0.942 ppb	99.550 %
Concentration per Run 1	0.757 ppb	98.898 %	96.498 %	0.825 ppb	0.928 ppb	97.585 %
Concentration per Run 2	0.992 ppb	97.539 %	95.262 %	0.948 ppb	0.953 ppb	99.145 %
Concentration per Run 3	0.964 ppb	102.604 %	102.057 %	0.932 ppb	0.945 ppb	101.921 %
Concentration RSD	14.2 %	2.6 %	3.7 %	7.4 %	1.4 %	2.2 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 6 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: 10/1000 Cal Rack 0
 Analysis started at: 8/9/2023 4:12:22 PM Vial 4

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.971 %	98.262 %	10.699 ppb	1,043.852 ppb	1,048.879 ppb	10.731 ppb	1,062.635 ppb	1,132.868 ppb	101.639 %
Concentration per Run 1	100.345 %	92.468 %	10.867 ppb	1,076.545 ppb	1,078.666 ppb	10.079 ppb	1,038.897 ppb	1,105.848 ppb	101.715 %
Concentration per Run 2	100.247 %	94.206 %	10.531 ppb	1,083.972 ppb	1,070.123 ppb	12.002 ppb	1,120.925 ppb	1,206.338 ppb	103.041 %
Concentration per Run 3	99.322 %	108.111 %	10.698 ppb	971.038 ppb	997.849 ppb	10.113 ppb	1,028.083 ppb	1,086.418 ppb	100.162 %
Concentration RSD	0.6 %	8.7 %	1.6 %	6.1 %	4.2 %	10.3 %	4.8 %	5.7 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	10.442 ppb	10.609 ppb	10.574 ppb	1,039.058 ppb	10.747 ppb	10.789 ppb	10.979 ppb	10.963 ppb	101.619 %
Concentration per Run 1	10.274 ppb	10.536 ppb	10.328 ppb	1,021.198 ppb	10.604 ppb	11.119 ppb	10.513 ppb	10.863 ppb	102.565 %
Concentration per Run 2	10.866 ppb	10.719 ppb	10.536 ppb	1,052.673 ppb	10.920 ppb	10.206 ppb	11.111 ppb	11.124 ppb	103.307 %
Concentration per Run 3	10.186 ppb	10.573 ppb	10.858 ppb	1,043.304 ppb	10.716 ppb	11.042 ppb	11.312 ppb	10.901 ppb	98.984 %
Concentration RSD	3.5 %	0.9 %	2.5 %	1.6 %	1.5 %	4.7 %	3.8 %	1.3 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.516 ppb	10.276 ppb	10.173 ppb	9.818 ppb	99.084 %	10.539 ppb	10.549 ppb	98.435 %	10.210 ppb
Concentration per Run 1	10.204 ppb	10.076 ppb	9.962 ppb	9.410 ppb	98.802 %	10.319 ppb	10.306 ppb	97.517 %	10.105 ppb
Concentration per Run 2	10.379 ppb	10.407 ppb	10.098 ppb	9.896 ppb	99.634 %	10.641 ppb	10.678 ppb	98.131 %	10.219 ppb
Concentration per Run 3	10.966 ppb	10.346 ppb	10.460 ppb	10.149 ppb	98.815 %	10.656 ppb	10.664 ppb	99.657 %	10.307 ppb
Concentration RSD	3.8 %	1.7 %	2.5 %	3.8 %	0.5 %	1.8 %	2.0 %	1.1 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	10.257 ppb	100.398 %	99.300 %	10.079 ppb	10.038 ppb	98.576 %
Concentration per Run 1	10.075 ppb	98.590 %	98.869 %	9.649 ppb	9.796 ppb	96.808 %
Concentration per Run 2	10.542 ppb	99.980 %	98.106 %	10.168 ppb	10.178 ppb	98.989 %
Concentration per Run 3	10.154 ppb	102.623 %	100.926 %	10.419 ppb	10.141 ppb	99.932 %
Concentration RSD	2.4 %	2.0 %	1.5 %	3.9 %	2.1 %	1.6 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 7 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: 60/6000 Cal Rack: 0
 Analysis started at: 8/9/2023 4:16:51 PM Vial: 5

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.201 %	91.541 %	60.059 ppb	5,992.639 ppb	6,044.908 ppb	59.007 ppb	6,030.992 ppb	6,101.375 ppb	97.907 %
Concentration per Run 1	94.463 %	95.249 %	59.945 ppb	5,763.192 ppb	5,835.701 ppb	57.457 ppb	5,846.051 ppb	5,868.371 ppb	98.289 %
Concentration per Run 2	93.274 %	85.863 %	59.832 ppb	6,337.483 ppb	6,331.515 ppb	62.088 ppb	6,284.857 ppb	6,463.556 ppb	98.114 %
Concentration per Run 3	94.865 %	93.511 %	60.401 ppb	5,877.241 ppb	5,967.508 ppb	57.474 ppb	5,962.068 ppb	5,972.199 ppb	97.317 %
Concentration RSD	0.9 %	5.5 %	0.5 %	5.1 %	4.2 %	4.5 %	3.8 %	5.2 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.220 ppb	60.018 ppb	59.875 ppb	5,902.063 ppb	59.548 ppb	60.348 ppb	59.639 ppb	60.045 ppb	97.659 %
Concentration per Run 1	58.546 ppb	58.080 ppb	58.487 ppb	5,822.815 ppb	58.709 ppb	60.083 ppb	59.617 ppb	58.892 ppb	98.190 %
Concentration per Run 2	60.132 ppb	61.789 ppb	61.362 ppb	5,902.247 ppb	59.585 ppb	60.099 ppb	57.984 ppb	59.387 ppb	100.082 %
Concentration per Run 3	58.982 ppb	60.184 ppb	59.775 ppb	5,981.128 ppb	60.350 ppb	60.862 ppb	61.316 ppb	61.854 ppb	94.705 %
Concentration RSD	1.4 %	3.1 %	2.4 %	1.3 %	1.4 %	0.7 %	2.8 %	2.6 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.518 ppb	59.403 ppb	58.464 ppb	57.516 ppb	93.505 %	59.041 ppb	59.365 ppb	94.615 %	58.882 ppb
Concentration per Run 1	57.479 ppb	57.765 ppb	57.472 ppb	55.339 ppb	93.886 %	57.884 ppb	57.884 ppb	93.835 %	58.150 ppb
Concentration per Run 2	59.106 ppb	57.439 ppb	58.071 ppb	58.169 ppb	93.407 %	59.432 ppb	60.244 ppb	94.606 %	58.974 ppb
Concentration per Run 3	61.968 ppb	63.005 ppb	59.849 ppb	59.039 ppb	93.222 %	59.807 ppb	59.967 ppb	95.404 %	59.523 ppb
Concentration RSD	3.8 %	5.3 %	2.1 %	3.4 %	0.4 %	1.7 %	2.2 %	0.8 %	1.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.588 ppb	98.283 %	97.489 %	59.989 ppb	58.269 ppb	93.979 %
Concentration per Run 1	58.613 ppb	97.937 %	97.377 %	58.178 ppb	57.370 ppb	92.108 %
Concentration per Run 2	60.150 ppb	97.836 %	96.283 %	60.035 ppb	58.374 ppb	95.372 %
Concentration per Run 3	60.001 ppb	99.077 %	98.808 %	61.752 ppb	59.065 ppb	94.457 %
Concentration RSD	1.4 %	0.7 %	1.3 %	3.0 %	1.5 %	1.8 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 8 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: 120/12000 Cal Rack: 0
 Analysis started at: 8/9/2023 4:21:21 PM Vial: 6

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.791 %	88.181 %	119.913 ppb		11,973.400 ppb	120.442 ppb	11,979.299 ppb	11,937.533 ppb	92.774 %
Concentration per Run 1	88.438 %	98.030 %	120.539 ppb	10,956.592 ppb	11,034.696 ppb	105.670 ppb	11,245.604 ppb	11,274.943 ppb	93.874 %
Concentration per Run 2	88.987 %	76.477 %	119.302 ppb	13,274.763 ppb	13,201.889 ppb	137.565 ppb	12,966.588 ppb	12,783.491 ppb	91.893 %
Concentration per Run 3	88.948 %	90.035 %	119.897 ppb	11,684.849 ppb	11,683.615 ppb	118.091 ppb	11,725.704 ppb	11,754.165 ppb	92.556 %
Concentration RSD	0.3 %	12.4 %	0.5 %		9.3 %	13.3 %	7.4 %	6.5 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	120.354 ppb	119.940 ppb	120.015 ppb	12,045.659 ppb	120.164 ppb	119.759 ppb	120.098 ppb	119.897 ppb	91.350 %
Concentration per Run 1	110.348 ppb	111.677 ppb	109.956 ppb	11,258.803 ppb	113.120 ppb	113.771 ppb	114.242 ppb	114.618 ppb	94.812 %
Concentration per Run 2	130.043 ppb	128.645 ppb	129.929 ppb	12,751.366 ppb	126.096 ppb	125.105 ppb	124.318 ppb	124.556 ppb	88.197 %
Concentration per Run 3	120.669 ppb	119.498 ppb	120.158 ppb	12,126.808 ppb	121.275 ppb	120.402 ppb	121.734 ppb	120.517 ppb	91.041 %
Concentration RSD	8.2 %	7.1 %	8.3 %	6.2 %	5.5 %	4.8 %	4.4 %	4.2 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	120.198 ppb	120.277 ppb	120.754 ppb	121.258 ppb	86.979 %	120.435 ppb	120.272 ppb	88.803 %	120.542 ppb
Concentration per Run 1	115.761 ppb	114.749 ppb	117.098 ppb	116.914 ppb	87.723 %	118.899 ppb	118.763 ppb	89.870 %	118.288 ppb
Concentration per Run 2	124.289 ppb	123.744 ppb	123.651 ppb	122.569 ppb	86.281 %	120.899 ppb	121.570 ppb	87.397 %	121.709 ppb
Concentration per Run 3	120.545 ppb	122.336 ppb	121.513 ppb	124.291 ppb	86.934 %	121.506 ppb	120.481 ppb	89.143 %	121.630 ppb
Concentration RSD	3.6 %	4.0 %	2.8 %	3.2 %	0.8 %	1.1 %	1.2 %	1.4 %	1.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	120.185 ppb	92.396 %	92.256 %		120.863 ppb	87.456 %
Concentration per Run 1	118.275 ppb	91.392 %	91.361 %	133.796 ppb	118.226 ppb	87.743 %
Concentration per Run 2	121.707 ppb	93.319 %	93.175 %	138.131 ppb	120.884 ppb	86.766 %
Concentration per Run 3	120.574 ppb	92.478 %	92.232 %	142.735 ppb	123.478 ppb	87.859 %
Concentration RSD	1.5 %	1.0 %	1.0 %		2.2 %	0.7 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 9 User name: ALPHALAB\la2-icpmsq2 Comment: Sr Interference Check
 Analysis label: Sr 200ppb Rack: 4
 Analysis started at: 8/9/2023 4:25:51 PM Vial: 55

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.747 %	93.743 %	0.013 ppb	6.678 ppb	-0.149 ppb	0.008 ppb	7.681 ppb	4.056 ppb	92.578 %
Concentration per Run 1	93.558 %	94.554 %	0.006 ppb	6.831 ppb	-0.369 ppb	0.219 ppb	6.428 ppb	-38.660 ppb	92.671 %
Concentration per Run 2	94.166 %	92.816 %	0.015 ppb	6.351 ppb	-0.346 ppb	-0.046 ppb	11.014 ppb	-1.510 ppb	92.765 %
Concentration per Run 3	93.517 %	93.859 %	0.017 ppb	6.852 ppb	0.270 ppb	-0.148 ppb	5.601 ppb	52.337 ppb	92.299 %
Concentration RSD	0.4 %	0.9 %	46.7 %	4.2 %	244.0 %	2,241.8 %	38.0 %	1,128.1 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.010 ppb	0.014 ppb	0.085 ppb	7.506 ppb	0.009 ppb	0.119 ppb	0.086 ppb	1.040 ppb	94.305 %
Concentration per Run 1	-0.008 ppb	0.004 ppb	0.143 ppb	7.420 ppb	0.003 ppb	0.088 ppb	0.069 ppb	1.037 ppb	94.161 %
Concentration per Run 2	-0.035 ppb	0.033 ppb	0.007 ppb	9.971 ppb	0.013 ppb	0.134 ppb	0.063 ppb	1.040 ppb	94.655 %
Concentration per Run 3	0.073 ppb	0.004 ppb	0.106 ppb	5.126 ppb	0.010 ppb	0.135 ppb	0.127 ppb	1.042 ppb	94.099 %
Concentration RSD	577.3 %	122.9 %	82.7 %	32.3 %	61.4 %	22.5 %	41.0 %	0.3 %	0.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.022 ppb	0.050 ppb	205.133 ppb	0.245 ppb	94.047 %	0.011 ppb	0.006 ppb	94.661 %	0.023 ppb
Concentration per Run 1	0.003 ppb	0.041 ppb	201.340 ppb	0.280 ppb	93.917 %	0.010 ppb	0.005 ppb	93.908 %	0.017 ppb
Concentration per Run 2	0.034 ppb	0.043 ppb	204.302 ppb	0.298 ppb	94.216 %	0.011 ppb	0.005 ppb	95.027 %	0.032 ppb
Concentration per Run 3	0.030 ppb	0.067 ppb	209.756 ppb	0.156 ppb	94.009 %	0.013 ppb	0.008 ppb	95.048 %	0.021 ppb
Concentration RSD	75.7 %	28.6 %	2.1 %	31.5 %	0.2 %	14.3 %	34.0 %	0.7 %	34.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.036 ppb	96.609 %	96.200 %	0.446 ppb	0.014 ppb	97.329 %
Concentration per Run 1	0.019 ppb	94.827 %	94.032 %	0.438 ppb	0.016 ppb	95.878 %
Concentration per Run 2	0.045 ppb	96.283 %	95.459 %	0.510 ppb	0.014 ppb	97.260 %
Concentration per Run 3	0.044 ppb	98.718 %	99.109 %	0.389 ppb	0.011 ppb	98.850 %
Concentration RSD	41.4 %	2.0 %	2.7 %	13.6 %	17.4 %	1.5 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 10 User name: ALPHALAB\la2-icpmsq2 Comment: ICV
 Analysis label: ICV Rack: 0
 Analysis started at: 8/9/2023 4:30:24 PM Vial: 7

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.608 %	90.382 %	48.339 ppb	4,798.281 ppb	4,961.548 ppb	48.353 ppb	4,793.225 ppb	4,966.195 ppb	93.413 %
Concentration per Run 1	92.844 %	98.030 %	48.692 ppb	4,464.928 ppb	4,532.300 ppb	43.538 ppb	4,525.535 ppb	4,733.825 ppb	92.785 %
Concentration per Run 2	92.996 %	83.777 %	47.828 ppb	5,008.271 ppb	5,149.611 ppb	49.717 ppb	4,844.273 ppb	5,152.311 ppb	93.783 %
Concentration per Run 3	91.983 %	89.339 %	48.496 ppb	4,921.645 ppb	5,202.733 ppb	51.805 ppb	5,009.869 ppb	5,012.450 ppb	93.670 %
Recovery Percentage 1			96.678 %	95.966 %	99.231 %	96.707 %	95.865 %	99.324 %	
Concentration RSD	0.6 %	7.9 %	0.9 %	6.1 %	7.5 %	8.9 %	5.1 %	4.3 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.936 ppb	48.235 ppb	48.649 ppb	4,778.390 ppb	47.373 ppb	49.452 ppb	48.455 ppb	49.171 ppb	94.174 %
Concentration per Run 1	45.164 ppb	46.688 ppb	47.359 ppb	4,697.225 ppb	45.996 ppb	48.372 ppb	47.616 ppb	48.358 ppb	92.388 %
Concentration per Run 2	47.301 ppb	48.196 ppb	49.057 ppb	4,718.908 ppb	47.165 ppb	49.321 ppb	47.621 ppb	48.598 ppb	97.209 %
Concentration per Run 3	51.344 ppb	49.821 ppb	49.531 ppb	4,919.036 ppb	48.957 ppb	50.663 ppb	50.130 ppb	50.558 ppb	92.926 %
Recovery Percentage 1	95.872 %	96.470 %	97.298 %	95.568 %	94.746 %	98.904 %	96.911 %	98.343 %	
Concentration RSD	6.5 %	3.2 %	2.3 %	2.6 %	3.1 %	2.3 %	3.0 %	2.5 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	47.840 ppb	48.582 ppb	47.677 ppb	46.863 ppb	91.334 %	48.838 ppb	48.404 ppb	92.085 %	48.250 ppb
Concentration per Run 1	46.978 ppb	47.840 ppb	47.114 ppb	45.099 ppb	91.264 %	47.930 ppb	47.453 ppb	90.593 %	48.013 ppb
Concentration per Run 2	46.822 ppb	48.019 ppb	47.161 ppb	47.405 ppb	90.667 %	49.295 ppb	48.935 ppb	92.030 %	48.356 ppb
Concentration per Run 3	49.719 ppb	49.886 ppb	48.757 ppb	48.086 ppb	92.070 %	49.288 ppb	48.825 ppb	93.633 %	48.381 ppb
Recovery Percentage 1	95.680 %	97.164 %	95.354 %	93.727 %		97.676 %	96.808 %		96.500 %
Concentration RSD	3.4 %	2.3 %	2.0 %	3.3 %	0.8 %	1.6 %	1.7 %	1.7 %	0.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	48.026 ppb	96.205 %	96.407 %	47.539 ppb	47.571 ppb	93.490 %
Concentration per Run 1	48.122 ppb	95.521 %	97.051 %	45.773 ppb	46.708 ppb	92.352 %
Concentration per Run 2	47.475 ppb	94.699 %	93.975 %	48.236 ppb	47.839 ppb	93.162 %
Concentration per Run 3	48.480 ppb	98.394 %	98.195 %	48.609 ppb	48.164 ppb	94.956 %
Recovery Percentage 1	96.052 %			95.078 %	95.142 %	
Concentration RSD	1.1 %	2.0 %	2.3 %	3.2 %	1.6 %	1.4 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 11 User name: ALPHALAB\la2-icpmsq2 Comment: ICB
 Analysis label: ICB Rack: 0
 Analysis started at: 8/9/2023 4:34:55 PM Vial: 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.491 %	83.777 %	0.006 ppb	1.461 ppb	-2.021 ppb	-0.350 ppb	0.488 ppb	1.072 ppb	94.237 %
Concentration per Run 1	95.063 %	85.516 %	-0.004 ppb	1.445 ppb	-2.244 ppb	-0.067 ppb	0.731 ppb	1.928 ppb	94.109 %
Concentration per Run 2	94.903 %	86.211 %	0.019 ppb	0.962 ppb	-1.574 ppb	-0.969 ppb	0.735 ppb	0.630 ppb	93.635 %
Concentration per Run 3	93.507 %	79.606 %	0.002 ppb	1.974 ppb	-2.244 ppb	-0.015 ppb	-0.002 ppb	0.658 ppb	94.968 %
Recovery Percentage 1			1.170 %	1.461 %	-2.887 %	-3.505 %	0.488 %	1.072 %	
Concentration RSD	0.9 %	4.3 %	199.0 %	34.6 %	19.2 %	153.1 %	86.9 %	69.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.007 ppb	-0.003 ppb	0.047 ppb	7.538 ppb	0.001 ppb	0.024 ppb	0.056 ppb	0.302 ppb	94.353 %
Concentration per Run 1	-0.016 ppb	-0.019 ppb	0.008 ppb	8.640 ppb	0.003 ppb	-0.039 ppb	0.035 ppb	0.323 ppb	93.852 %
Concentration per Run 2	-0.007 ppb	0.005 ppb	0.072 ppb	7.262 ppb	0.000 ppb	0.056 ppb	0.083 ppb	0.318 ppb	93.027 %
Concentration per Run 3	0.003 ppb	0.005 ppb	0.059 ppb	6.713 ppb	0.000 ppb	0.054 ppb	0.052 ppb	0.265 ppb	96.180 %
Recovery Percentage 1	-0.132 %	-0.290 %	4.654 %	15.077 %	0.213 %	1.182 %	5.639 %	6.037 %	
Concentration RSD	143.2 %	491.5 %	72.9 %	13.2 %	140.0 %	230.7 %	42.8 %	10.6 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.030 ppb	0.032 ppb	0.000 ppb	0.125 ppb	95.154 %	0.002 ppb	0.002 ppb	95.560 %	0.042 ppb
Concentration per Run 1	0.039 ppb	0.015 ppb	0.000 ppb	0.094 ppb	95.004 %	0.003 ppb	0.000 ppb	94.988 %	0.049 ppb
Concentration per Run 2	0.017 ppb	0.066 ppb	0.000 ppb	0.155 ppb	95.117 %	0.002 ppb	0.003 ppb	95.707 %	0.032 ppb
Concentration per Run 3	0.033 ppb	0.017 ppb	0.000 ppb	0.127 ppb	95.342 %	0.001 ppb	0.001 ppb	95.986 %	0.044 ppb
Recovery Percentage 1	5.932 %	0.650 %	-0.002 %	6.273 %		0.546 %	0.778 %		1.048 %
Concentration RSD	38.8 %	89.4 %	134.3 %	24.5 %	0.2 %	48.8 %	111.1 %	0.5 %	20.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.006 ppb	97.287 %	96.558 %	0.337 ppb	0.005 ppb	97.288 %
Concentration per Run 1	0.005 ppb	95.427 %	94.280 %	0.318 ppb	0.006 ppb	96.738 %
Concentration per Run 2	0.000 ppb	97.965 %	97.574 %	0.380 ppb	0.005 ppb	96.282 %
Concentration per Run 3	0.013 ppb	98.470 %	97.819 %	0.313 ppb	0.005 ppb	98.845 %
Recovery Percentage 1	1.261 %			33.698 %	0.525 %	
Concentration RSD	103.8 %	1.7 %	2.0 %	11.2 %	8.1 %	1.4 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 12 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: WG1813012-1 2008TL Rack 2
 Analysis started at: 8/9/2023 4:40:29 PM Vial 21

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.646 %	92.584 %	0.003 ppb	5.324 ppb	0.470 ppb	2.222 ppb	2.269 ppb	17.359 ppb	97.005 %
Concentration per Run 1	97.601 %	86.558 %	0.003 ppb	5.666 ppb	0.407 ppb	2.673 ppb	2.387 ppb	15.751 ppb	95.687 %
Concentration per Run 2	98.020 %	96.640 %	-0.008 ppb	4.728 ppb	-0.420 ppb	1.356 ppb	0.756 ppb	15.881 ppb	97.883 %
Concentration per Run 3	97.316 %	94.554 %	0.013 ppb	5.576 ppb	1.424 ppb	2.638 ppb	3.663 ppb	20.445 ppb	97.446 %
Concentration RSD	0.4 %	5.7 %	358.4 %	9.7 %	196.5 %	33.8 %	64.2 %	15.4 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.010 ppb	0.051 ppb	0.318 ppb	2.015 ppb	0.006 ppb	0.094 ppb	0.052 ppb	0.881 ppb	98.846 %
Concentration per Run 1	-0.017 ppb	0.093 ppb	0.307 ppb	0.735 ppb	0.000 ppb	0.135 ppb	0.045 ppb	0.831 ppb	96.078 %
Concentration per Run 2	0.007 ppb	0.036 ppb	0.351 ppb	3.266 ppb	0.007 ppb	0.089 ppb	0.043 ppb	0.935 ppb	98.324 %
Concentration per Run 3	-0.019 ppb	0.024 ppb	0.296 ppb	2.044 ppb	0.009 ppb	0.057 ppb	0.068 ppb	0.876 ppb	102.137 %
Concentration RSD	154.1 %	71.9 %	9.2 %	62.8 %	86.4 %	41.5 %	26.6 %	5.9 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.002 ppb	0.016 ppb	0.018 ppb	0.021 ppb	98.376 %	0.001 ppb	-0.001 ppb	97.976 %	0.007 ppb
Concentration per Run 1	0.007 ppb	0.023 ppb	0.016 ppb	0.024 ppb	96.785 %	0.001 ppb	-0.001 ppb	95.731 %	0.002 ppb
Concentration per Run 2	-0.015 ppb	0.016 ppb	0.020 ppb	0.035 ppb	97.275 %	0.001 ppb	-0.001 ppb	96.244 %	0.009 ppb
Concentration per Run 3	0.001 ppb	0.010 ppb	0.017 ppb	0.005 ppb	101.069 %	0.001 ppb	0.000 ppb	101.953 %	0.011 ppb
Concentration RSD	487.8 %	37.9 %	13.6 %	72.4 %	2.4 %	42.3 %	83.9 %	3.5 %	64.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.073 ppb	99.397 %	99.009 %	0.066 ppb	0.009 ppb	98.902 %
Concentration per Run 1	0.031 ppb	95.725 %	95.039 %	0.038 ppb	0.009 ppb	95.285 %
Concentration per Run 2	0.126 ppb	98.533 %	97.175 %	0.085 ppb	0.007 ppb	98.717 %
Concentration per Run 3	0.061 ppb	103.933 %	104.812 %	0.076 ppb	0.009 ppb	102.703 %
Concentration RSD	66.4 %	4.2 %	5.2 %	37.5 %	11.6 %	3.8 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 13 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1813012-2D10 2008TL Rack: 2
 Analysis started at: 8/9/2023 4:44:58 PM Vial: 22

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.908 %	97.914 %	5.327 ppb	1,030.334 ppb	1,039.697 ppb	212.621 ppb	1,046.266 ppb	1,067.591 ppb	96.943 %
Concentration per Run 1	96.579 %	101.159 %	5.341 ppb	984.637 ppb	972.474 ppb	201.070 ppb	971.731 ppb	981.662 ppb	97.437 %
Concentration per Run 2	96.532 %	93.163 %	5.434 ppb	1,059.194 ppb	1,102.103 ppb	211.533 ppb	1,049.659 ppb	1,096.184 ppb	95.639 %
Concentration per Run 3	97.612 %	99.421 %	5.204 ppb	1,047.169 ppb	1,044.514 ppb	225.261 ppb	1,117.409 ppb	1,124.928 ppb	97.754 %
Concentration RSD	0.6 %	4.3 %	2.2 %	3.9 %	6.2 %	5.7 %	7.0 %	7.1 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	50.705 ppb	20.594 ppb	52.272 ppb	102.736 ppb	51.598 ppb	50.801 ppb	25.834 ppb	53.095 ppb	98.979 %
Concentration per Run 1	49.636 ppb	19.942 ppb	50.918 ppb	97.047 ppb	50.643 ppb	49.736 ppb	25.698 ppb	51.997 ppb	96.146 %
Concentration per Run 2	52.367 ppb	21.210 ppb	53.230 ppb	111.301 ppb	53.347 ppb	53.131 ppb	26.599 ppb	53.814 ppb	96.848 %
Concentration per Run 3	50.110 ppb	20.628 ppb	52.667 ppb	99.861 ppb	50.805 ppb	49.535 ppb	25.206 ppb	53.476 ppb	103.944 %
Concentration RSD	2.9 %	3.1 %	2.3 %	7.3 %	2.9 %	4.0 %	2.7 %	1.8 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.445 ppb	13.240 ppb	102.429 ppb	96.945 ppb	97.036 %	5.251 ppb	5.549 ppb	98.371 %	45.084 ppb
Concentration per Run 1	12.370 ppb	12.401 ppb	99.989 ppb	95.417 ppb	96.005 %	5.231 ppb	5.427 ppb	94.734 %	43.270 ppb
Concentration per Run 2	12.582 ppb	14.227 ppb	100.933 ppb	96.881 ppb	96.394 %	5.324 ppb	5.621 ppb	97.308 %	45.572 ppb
Concentration per Run 3	12.383 ppb	13.092 ppb	106.363 ppb	98.537 ppb	98.710 %	5.197 ppb	5.599 ppb	103.073 %	46.411 ppb
Concentration RSD	1.0 %	7.0 %	3.4 %	1.6 %	1.5 %	1.2 %	1.9 %	4.3 %	3.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	203.214 ppb	99.370 %	99.542 %	12.484 ppb	53.614 ppb	98.372 %
Concentration per Run 1	197.534 ppb	95.921 %	94.925 %	12.221 ppb	52.667 ppb	96.775 %
Concentration per Run 2	203.465 ppb	98.780 %	98.314 %	12.604 ppb	54.110 ppb	97.680 %
Concentration per Run 3	208.643 ppb	103.409 %	105.388 %	12.628 ppb	54.065 ppb	100.662 %
Concentration RSD	2.7 %	3.8 %	5.4 %	1.8 %	1.5 %	2.1 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 14 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1813012-3D10 2008TL Rack: 2
 Analysis started at: 8/9/2023 4:49:28 PM Vial: 24

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.628 %	84.009 %	5.309 ppb	2,629.458 ppb	2,450.176 ppb	235.860 ppb	1,330.703 ppb	6,372.438 ppb	97.142 %
Concentration per Run 1	97.162 %	76.825 %	5.193 ppb	2,694.810 ppb	2,487.667 ppb	241.498 ppb	1,342.363 ppb	6,374.350 ppb	96.661 %
Concentration per Run 2	97.813 %	86.558 %	5.209 ppb	2,577.273 ppb	2,427.896 ppb	224.786 ppb	1,274.133 ppb	6,162.431 ppb	98.651 %
Concentration per Run 3	97.910 %	88.644 %	5.524 ppb	2,616.289 ppb	2,434.965 ppb	241.296 ppb	1,375.614 ppb	6,580.533 ppb	96.116 %
Concentration RSD	0.4 %	7.5 %	3.5 %	2.3 %	1.3 %	4.1 %	3.9 %	3.3 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	54.424 ppb	21.694 ppb	57.197 ppb	113.693 ppb	52.366 ppb	52.256 ppb	26.483 ppb	53.681 ppb	98.637 %
Concentration per Run 1	54.821 ppb	21.636 ppb	56.662 ppb	118.523 ppb	53.124 ppb	53.380 ppb	26.186 ppb	54.014 ppb	95.626 %
Concentration per Run 2	53.589 ppb	21.759 ppb	56.522 ppb	111.512 ppb	52.509 ppb	52.019 ppb	27.399 ppb	54.019 ppb	96.265 %
Concentration per Run 3	54.863 ppb	21.688 ppb	58.409 ppb	111.043 ppb	51.465 ppb	51.370 ppb	25.863 ppb	53.011 ppb	104.021 %
Concentration RSD	1.3 %	0.3 %	1.8 %	3.7 %	1.6 %	2.0 %	3.1 %	1.1 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.154 ppb	12.780 ppb	135.006 ppb	98.964 ppb	95.431 %	5.220 ppb	5.605 ppb	97.712 %	48.458 ppb
Concentration per Run 1	12.984 ppb	12.581 ppb	132.263 ppb	95.940 ppb	93.685 %	5.172 ppb	5.536 ppb	94.930 %	47.425 ppb
Concentration per Run 2	13.157 ppb	12.694 ppb	134.102 ppb	101.286 ppb	95.100 %	5.267 ppb	5.663 ppb	96.765 %	48.543 ppb
Concentration per Run 3	13.322 ppb	13.064 ppb	138.652 ppb	99.665 ppb	97.506 %	5.221 ppb	5.616 ppb	101.442 %	49.406 ppb
Concentration RSD	1.3 %	2.0 %	2.4 %	2.8 %	2.0 %	0.9 %	1.2 %	3.4 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	216.625 ppb	99.398 %	99.717 %	12.582 ppb	53.627 ppb	96.700 %
Concentration per Run 1	214.198 ppb	96.712 %	96.734 %	12.203 ppb	52.892 ppb	93.997 %
Concentration per Run 2	215.314 ppb	98.092 %	97.429 %	12.870 ppb	54.221 ppb	96.544 %
Concentration per Run 3	220.363 ppb	103.389 %	104.989 %	12.674 ppb	53.767 ppb	99.561 %
Concentration RSD	1.5 %	3.5 %	4.6 %	2.7 %	1.3 %	2.9 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 15 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: WG1813012-4 2008TL Rack 2
 Analysis started at: 8/9/2023 4:53:58 PM Vial 25

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.112 %	96.060 %	-0.003 ppb	13,989.122 ppb	12,322.688 ppb	1.972 ppb	1,657.397 ppb	51,110.188 ppb	100.022 %
Concentration per Run 1	101.871 %	94.206 %	-0.003 ppb	14,110.531 ppb	12,373.649 ppb	1.324 ppb	1,617.601 ppb	50,262.862 ppb	99.640 %
Concentration per Run 2	102.044 %	100.463 %	-0.004 ppb	13,522.826 ppb	11,861.718 ppb	2.808 ppb	1,651.779 ppb	51,404.824 ppb	101.036 %
Concentration per Run 3	102.421 %	93.511 %	-0.001 ppb	14,334.009 ppb	12,732.695 ppb	1.783 ppb	1,702.810 ppb	51,662.877 ppb	99.388 %
Concentration RSD	0.3 %	4.0 %	66.1 %	3.0 %	3.6 %	38.5 %	2.6 %	1.5 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.072 ppb	0.131 ppb	20.396 ppb	17.982 ppb	0.015 ppb	0.034 ppb	1.806 ppb	2.466 ppb	97.463 %
Concentration per Run 1	0.070 ppb	0.141 ppb	20.283 ppb	19.679 ppb	0.008 ppb	0.029 ppb	1.993 ppb	2.414 ppb	96.861 %
Concentration per Run 2	0.120 ppb	0.107 ppb	20.309 ppb	16.903 ppb	0.020 ppb	0.001 ppb	1.543 ppb	2.512 ppb	96.650 %
Concentration per Run 3	0.025 ppb	0.146 ppb	20.596 ppb	17.363 ppb	0.017 ppb	0.072 ppb	1.882 ppb	2.472 ppb	98.880 %
Concentration RSD	65.8 %	16.3 %	0.9 %	8.3 %	43.3 %	105.2 %	13.0 %	2.0 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.485 ppb	0.128 ppb	346.490 ppb	1.136 ppb	92.586 %	0.001 ppb	0.002 ppb	98.068 %	0.684 ppb
Concentration per Run 1	0.434 ppb	0.090 ppb	334.841 ppb	1.074 ppb	92.245 %	0.001 ppb	0.005 ppb	94.500 %	0.659 ppb
Concentration per Run 2	0.496 ppb	0.111 ppb	347.909 ppb	1.221 ppb	92.736 %	0.000 ppb	0.000 ppb	98.050 %	0.703 ppb
Concentration per Run 3	0.524 ppb	0.182 ppb	356.720 ppb	1.113 ppb	92.776 %	0.001 ppb	0.001 ppb	101.652 %	0.690 ppb
Concentration RSD	9.4 %	37.7 %	3.2 %	6.7 %	0.3 %	69.7 %	125.3 %	3.6 %	3.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	106.924 ppb	100.395 %	99.939 %	0.023 ppb	0.080 ppb	92.761 %
Concentration per Run 1	104.556 ppb	96.938 %	96.704 %	0.004 ppb	0.079 ppb	90.251 %
Concentration per Run 2	107.890 ppb	101.624 %	100.377 %	0.038 ppb	0.080 ppb	93.140 %
Concentration per Run 3	108.326 ppb	102.623 %	102.735 %	0.027 ppb	0.082 ppb	94.891 %
Concentration RSD	1.9 %	3.0 %	3.0 %	75.7 %	2.3 %	2.5 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 16 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343641-01 2008TL Rack 2
 Analysis started at: 8/9/2023 4:58:27 PM Vial 23

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.260 %	94.322 %	0.001 ppb	13,894.917 ppb	12,234.643 ppb	1.312 ppb	1,622.021 ppb	50,620.906 ppb	96.446 %
Concentration per Run 1	99.503 %	93.511 %	0.005 ppb	13,777.819 ppb	12,081.360 ppb	2.124 ppb	1,636.355 ppb	51,032.346 ppb	96.492 %
Concentration per Run 2	99.242 %	87.254 %	0.000 ppb	14,805.857 ppb	12,866.187 ppb	1.077 ppb	1,708.332 ppb	52,388.602 ppb	97.561 %
Concentration per Run 3	99.034 %	102.202 %	-0.002 ppb	13,101.075 ppb	11,756.382 ppb	0.735 ppb	1,521.375 ppb	48,441.769 ppb	95.285 %
Concentration RSD	0.2 %	8.0 %	505.1 %	6.2 %	4.7 %	55.1 %	5.8 %	4.0 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.054 ppb	0.106 ppb	19.660 ppb	20.420 ppb	0.013 ppb	0.177 ppb	1.851 ppb	2.264 ppb	95.734 %
Concentration per Run 1	0.065 ppb	0.108 ppb	20.299 ppb	19.645 ppb	0.010 ppb	0.109 ppb	1.869 ppb	2.212 ppb	93.357 %
Concentration per Run 2	0.074 ppb	0.108 ppb	19.148 ppb	22.654 ppb	0.015 ppb	0.299 ppb	1.913 ppb	2.311 ppb	96.716 %
Concentration per Run 3	0.024 ppb	0.103 ppb	19.533 ppb	18.961 ppb	0.012 ppb	0.124 ppb	1.772 ppb	2.270 ppb	97.128 %
Concentration RSD	49.0 %	2.7 %	3.0 %	9.6 %	19.6 %	59.5 %	3.9 %	2.2 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.458 ppb	0.032 ppb	337.474 ppb	0.874 ppb	90.268 %	0.000 ppb	0.001 ppb	93.663 %	0.215 ppb
Concentration per Run 1	0.478 ppb	0.018 ppb	336.224 ppb	0.797 ppb	90.215 %	0.000 ppb	0.001 ppb	92.911 %	0.182 ppb
Concentration per Run 2	0.440 ppb	0.061 ppb	335.746 ppb	0.929 ppb	90.414 %	0.002 ppb	0.000 ppb	93.698 %	0.214 ppb
Concentration per Run 3	0.455 ppb	0.018 ppb	340.453 ppb	0.895 ppb	90.174 %	-0.001 ppb	0.002 ppb	94.379 %	0.249 ppb
Concentration RSD	4.2 %	75.9 %	0.8 %	7.8 %	0.1 %	354.7 %	92.9 %	0.8 %	15.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	106.517 ppb	98.103 %	98.469 %	-0.003 ppb	0.076 ppb	92.193 %
Concentration per Run 1	105.290 ppb	95.923 %	95.963 %	-0.021 ppb	0.076 ppb	89.931 %
Concentration per Run 2	106.812 ppb	98.410 %	98.689 %	0.003 ppb	0.077 ppb	93.164 %
Concentration per Run 3	107.451 ppb	99.975 %	100.755 %	0.009 ppb	0.074 ppb	93.483 %
Concentration RSD	1.0 %	2.1 %	2.4 %	587.7 %	2.1 %	2.1 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 17 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2345268-01 2008TL Rack 2
 Analysis started at: 8/9/2023 5:02:57 PM Vial 26

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.490 %	94.090 %	0.014 ppb	1,500,919.839 ppb	6,436.838 ppb	330.752 ppb	10,686.455 ppb	19,222.298 ppb	95.725 %
Concentration per Run 1	92.379 %	88.992 %	0.012 ppb	1,491,449.625 ppb	6,361.131 ppb	323.842 ppb	10,472.607 ppb	18,649.875 ppb	96.119 %
Concentration per Run 2	91.878 %	91.425 %	0.020 ppb	1,534,460.915 ppb	6,538.511 ppb	342.937 ppb	11,067.841 ppb	19,759.144 ppb	97.039 %
Concentration per Run 3	90.214 %	101.854 %	0.009 ppb	1,476,848.977 ppb	6,410.872 ppb	325.477 ppb	10,518.916 ppb	19,257.877 ppb	94.017 %
Concentration RSD	1.2 %	7.3 %	42.1 %	2.0 %	1.4 %	3.2 %	3.1 %	2.9 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	5.951 ppb	10.578 ppb	61.485 ppb	863.062 ppb	0.569 ppb	2.592 ppb	9.828 ppb	21.968 ppb	76.774 %
Concentration per Run 1	6.067 ppb	10.465 ppb	59.140 ppb	862.582 ppb	0.584 ppb	2.285 ppb	9.585 ppb	21.706 ppb	75.776 %
Concentration per Run 2	5.788 ppb	10.419 ppb	62.563 ppb	845.184 ppb	0.552 ppb	2.797 ppb	10.209 ppb	22.057 ppb	76.580 %
Concentration per Run 3	5.999 ppb	10.850 ppb	62.751 ppb	881.420 ppb	0.572 ppb	2.693 ppb	9.689 ppb	22.141 ppb	77.965 %
Concentration RSD	2.4 %	2.2 %	3.3 %	2.1 %	2.9 %	10.5 %	3.4 %	1.1 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.210 ppb	0.763 ppb	371.647 ppb	11.926 ppb	69.351 %	0.410 ppb	1.720 ppb	75.285 %	2.523 ppb
Concentration per Run 1	3.927 ppb	0.654 ppb	359.239 ppb	11.685 ppb	66.944 %	0.398 ppb	1.688 ppb	73.174 %	2.470 ppb
Concentration per Run 2	4.058 ppb	0.856 ppb	375.916 ppb	12.112 ppb	70.154 %	0.413 ppb	1.717 ppb	75.033 %	2.484 ppb
Concentration per Run 3	4.643 ppb	0.777 ppb	379.784 ppb	11.982 ppb	70.954 %	0.418 ppb	1.754 ppb	77.649 %	2.615 ppb
Concentration RSD	9.1 %	13.3 %	2.9 %	1.8 %	3.1 %	2.6 %	2.0 %	3.0 %	3.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	12.337 ppb	84.605 %	86.705 %	0.075 ppb	2.381 ppb	65.467 %
Concentration per Run 1	12.073 ppb	80.490 %	82.480 %	0.050 ppb	2.331 ppb	62.636 %
Concentration per Run 2	12.350 ppb	85.743 %	87.203 %	0.093 ppb	2.414 ppb	65.133 %
Concentration per Run 3	12.587 ppb	87.583 %	90.432 %	0.083 ppb	2.399 ppb	68.630 %
Concentration RSD	2.1 %	4.4 %	4.6 %	30.0 %	1.9 %	4.6 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 18 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2345503-01 2008TL Rack 2
 Analysis started at: 8/9/2023 5:07:25 PM Vial 27

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.730 %	90.614 %	0.022 ppb	514,192.555 ppb	6,175.704 ppb	102.021 ppb	9,482.390 ppb	48,815.377 ppb	95.522 %
Concentration per Run 1	90.292 %	88.644 %	0.026 ppb	506,976.597 ppb	5,997.311 ppb	103.050 ppb	9,364.536 ppb	48,188.745 ppb	95.706 %
Concentration per Run 2	89.699 %	92.120 %	0.017 ppb	506,347.215 ppb	6,167.182 ppb	101.732 ppb	9,202.032 ppb	47,909.519 ppb	96.304 %
Concentration per Run 3	89.199 %	91.078 %	0.023 ppb	529,253.855 ppb	6,362.618 ppb	101.281 ppb	9,880.604 ppb	50,347.867 ppb	94.555 %
Concentration RSD	0.6 %	2.0 %	22.2 %	2.5 %	3.0 %	0.9 %	3.7 %	2.7 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.909 ppb	0.443 ppb	119.121 ppb	253.507 ppb	8.548 ppb	34.648 ppb	2.916 ppb	17.411 ppb	84.122 %
Concentration per Run 1	3.368 ppb	0.465 ppb	117.774 ppb	269.985 ppb	8.411 ppb	34.654 ppb	2.784 ppb	17.519 ppb	80.190 %
Concentration per Run 2	4.050 ppb	0.418 ppb	115.865 ppb	228.213 ppb	8.532 ppb	34.344 ppb	2.998 ppb	17.368 ppb	85.671 %
Concentration per Run 3	4.310 ppb	0.445 ppb	123.725 ppb	262.323 ppb	8.700 ppb	34.946 ppb	2.966 ppb	17.345 ppb	86.506 %
Concentration RSD	12.4 %	5.4 %	3.4 %	8.8 %	1.7 %	0.9 %	4.0 %	0.5 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.306 ppb	0.713 ppb	309.132 ppb	8.696 ppb	75.609 %	0.016 ppb	0.271 ppb	80.555 %	4.361 ppb
Concentration per Run 1	2.318 ppb	0.812 ppb	306.380 ppb	8.473 ppb	73.704 %	0.012 ppb	0.260 ppb	78.308 %	4.315 ppb
Concentration per Run 2	2.240 ppb	0.571 ppb	306.927 ppb	8.635 ppb	75.905 %	0.018 ppb	0.252 ppb	78.737 %	4.514 ppb
Concentration per Run 3	2.360 ppb	0.756 ppb	314.087 ppb	8.980 ppb	77.217 %	0.018 ppb	0.302 ppb	84.621 %	4.255 ppb
Concentration RSD	2.6 %	17.7 %	1.4 %	3.0 %	2.3 %	23.1 %	9.9 %	4.4 %	3.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	141.170 ppb	86.043 %	86.085 %	0.133 ppb	0.263 ppb	68.989 %
Concentration per Run 1	139.194 ppb	82.518 %	81.819 %	0.117 ppb	0.262 ppb	65.091 %
Concentration per Run 2	143.489 ppb	85.314 %	85.835 %	0.147 ppb	0.263 ppb	68.906 %
Concentration per Run 3	140.827 ppb	90.297 %	90.601 %	0.135 ppb	0.263 ppb	72.969 %
Concentration RSD	1.5 %	4.6 %	5.1 %	11.3 %	0.4 %	5.7 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 19 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2345505-01 2008TL Rack 2
 Analysis started at: 8/9/2023 5:11:54 PM Vial 28

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.149 %	96.987 %	0.055 ppb	125,706.084 ppb	3,006.355 ppb	176.048 ppb	2,775.200 ppb	13,739.368 ppb	102.243 %
Concentration per Run 1	97.864 %	91.425 %	0.048 ppb	126,281.762 ppb	3,006.157 ppb	183.958 ppb	2,729.637 ppb	13,575.155 ppb	103.378 %
Concentration per Run 2	96.955 %	94.902 %	0.056 ppb	130,569.441 ppb	3,124.912 ppb	177.954 ppb	2,866.597 ppb	14,137.005 ppb	100.890 %
Concentration per Run 3	96.628 %	104.635 %	0.062 ppb	120,267.048 ppb	2,887.995 ppb	166.233 ppb	2,729.365 ppb	13,505.942 ppb	102.460 %
Concentration RSD	0.7 %	7.1 %	12.3 %	4.1 %	3.9 %	5.1 %	2.9 %	2.5 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.561 ppb	1.241 ppb	95.379 ppb	819.663 ppb	1.352 ppb	2.214 ppb	3.974 ppb	5.399 ppb	94.817 %
Concentration per Run 1	3.465 ppb	1.151 ppb	92.976 ppb	782.854 ppb	1.338 ppb	2.227 ppb	3.817 ppb	5.136 ppb	93.899 %
Concentration per Run 2	3.716 ppb	1.338 ppb	99.899 ppb	865.467 ppb	1.397 ppb	2.338 ppb	4.085 ppb	5.716 ppb	92.606 %
Concentration per Run 3	3.501 ppb	1.235 ppb	93.262 ppb	810.667 ppb	1.320 ppb	2.078 ppb	4.020 ppb	5.344 ppb	97.948 %
Concentration RSD	3.8 %	7.5 %	4.1 %	5.1 %	3.0 %	5.9 %	3.5 %	5.4 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	8.463 ppb	0.563 ppb	78.643 ppb	2.718 ppb	86.727 %	0.009 ppb	0.100 ppb	88.514 %	1.328 ppb
Concentration per Run 1	8.209 ppb	0.563 ppb	76.934 ppb	2.710 ppb	84.635 %	0.009 ppb	0.091 ppb	86.312 %	1.340 ppb
Concentration per Run 2	8.821 ppb	0.568 ppb	80.397 ppb	2.652 ppb	86.579 %	0.009 ppb	0.102 ppb	88.882 %	1.309 ppb
Concentration per Run 3	8.359 ppb	0.559 ppb	78.598 ppb	2.792 ppb	88.967 %	0.009 ppb	0.107 ppb	90.347 %	1.334 ppb
Concentration RSD	3.8 %	0.8 %	2.2 %	2.6 %	2.5 %	2.1 %	8.3 %	2.3 %	1.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	32.814 ppb	93.098 %	92.678 %	0.080 ppb	0.519 ppb	80.864 %
Concentration per Run 1	32.106 ppb	89.326 %	88.580 %	0.069 ppb	0.509 ppb	77.899 %
Concentration per Run 2	33.088 ppb	94.703 %	94.403 %	0.078 ppb	0.517 ppb	80.832 %
Concentration per Run 3	33.249 ppb	95.266 %	95.050 %	0.091 ppb	0.531 ppb	83.861 %
Concentration RSD	1.9 %	3.5 %	3.8 %	13.9 %	2.1 %	3.7 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 20 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2345533-01 2008TL Rack 2
 Analysis started at: 8/9/2023 5:16:24 PM Vial 29

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.588 %	95.017 %	0.004 ppb	283,319.506 ppb	14,768.938 ppb	51.623 ppb	12,990.391 ppb	155,467.033 ppb	106.352 %
Concentration per Run 1	105.500 %	92.468 %	0.000 ppb	281,860.719 ppb	14,613.753 ppb	49.423 ppb	12,999.152 ppb	154,148.164 ppb	106.626 %
Concentration per Run 2	104.098 %	94.901 %	0.006 ppb	285,680.009 ppb	15,080.883 ppb	53.224 ppb	12,885.159 ppb	155,285.907 ppb	106.370 %
Concentration per Run 3	104.166 %	97.682 %	0.007 ppb	282,417.790 ppb	14,612.178 ppb	52.222 ppb	13,086.862 ppb	156,967.028 ppb	106.061 %
Concentration RSD	0.8 %	2.7 %	82.3 %	0.7 %	1.8 %	3.8 %	0.8 %	0.9 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.451 ppb	0.296 ppb	141.565 ppb	672.699 ppb	0.504 ppb	1.860 ppb	1.902 ppb	34.391 ppb	94.168 %
Concentration per Run 1	1.210 ppb	0.240 ppb	140.507 ppb	661.413 ppb	0.491 ppb	1.943 ppb	1.956 ppb	34.302 ppb	90.658 %
Concentration per Run 2	1.392 ppb	0.298 ppb	141.184 ppb	669.360 ppb	0.545 ppb	1.835 ppb	1.866 ppb	34.670 ppb	96.943 %
Concentration per Run 3	1.752 ppb	0.351 ppb	143.004 ppb	687.323 ppb	0.476 ppb	1.802 ppb	1.883 ppb	34.200 ppb	94.903 %
Concentration RSD	19.0 %	18.9 %	0.9 %	2.0 %	7.2 %	4.0 %	2.5 %	0.7 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.700 ppb	0.945 ppb	682.714 ppb	2.130 ppb	84.625 %	0.006 ppb	0.101 ppb	88.670 %	0.950 ppb
Concentration per Run 1	2.787 ppb	0.923 ppb	649.053 ppb	1.986 ppb	81.481 %	0.007 ppb	0.098 ppb	83.365 %	0.925 ppb
Concentration per Run 2	2.567 ppb	0.859 ppb	694.822 ppb	2.118 ppb	85.707 %	0.005 ppb	0.097 ppb	90.708 %	0.955 ppb
Concentration per Run 3	2.745 ppb	1.053 ppb	704.266 ppb	2.285 ppb	86.687 %	0.006 ppb	0.107 ppb	91.938 %	0.970 ppb
Concentration RSD	4.3 %	10.4 %	4.3 %	7.1 %	3.3 %	22.2 %	5.2 %	5.2 %	2.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	65.283 ppb	93.235 %	91.605 %	0.007 ppb	3.211 ppb	79.239 %
Concentration per Run 1	63.866 ppb	87.499 %	84.902 %	-0.005 ppb	3.169 ppb	73.996 %
Concentration per Run 2	66.029 ppb	94.686 %	92.882 %	0.013 ppb	3.209 ppb	81.086 %
Concentration per Run 3	65.954 ppb	97.520 %	97.031 %	0.013 ppb	3.255 ppb	82.636 %
Concentration RSD	1.9 %	5.5 %	6.7 %	144.9 %	1.3 %	5.8 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 21 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2345533-02 2008TL Rack 2
 Analysis started at: 8/9/2023 5:20:52 PM Vial 30

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.079 %	106.257 %	0.007 ppb	85,034.535 ppb	5,423.822 ppb	52.535 ppb	3,317.587 ppb	17,411.925 ppb	107.976 %
Concentration per Run 1	104.710 %	107.416 %	0.009 ppb	83,791.822 ppb	5,245.827 ppb	51.488 ppb	3,285.734 ppb	17,076.917 ppb	108.269 %
Concentration per Run 2	105.297 %	100.811 %	0.009 ppb	88,737.955 ppb	5,733.426 ppb	52.844 ppb	3,382.516 ppb	17,947.373 ppb	106.678 %
Concentration per Run 3	105.231 %	110.545 %	0.002 ppb	82,573.829 ppb	5,292.213 ppb	53.274 ppb	3,284.510 ppb	17,211.484 ppb	108.980 %
Concentration RSD	0.3 %	4.7 %	59.9 %	3.8 %	5.0 %	1.8 %	1.7 %	2.7 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.285 ppb	0.749 ppb	116.935 ppb	938.312 ppb	0.165 ppb	1.025 ppb	3.432 ppb	4.617 ppb	97.325 %
Concentration per Run 1	1.286 ppb	0.804 ppb	115.052 ppb	944.577 ppb	0.143 ppb	1.061 ppb	3.391 ppb	4.539 ppb	91.521 %
Concentration per Run 2	1.333 ppb	0.738 ppb	119.597 ppb	929.159 ppb	0.166 ppb	1.032 ppb	3.607 ppb	4.838 ppb	100.112 %
Concentration per Run 3	1.238 ppb	0.704 ppb	116.158 ppb	941.200 ppb	0.188 ppb	0.981 ppb	3.297 ppb	4.475 ppb	100.343 %
Concentration RSD	3.7 %	6.8 %	2.0 %	0.9 %	13.6 %	3.9 %	4.6 %	4.2 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.047 ppb	0.258 ppb	123.898 ppb	0.715 ppb	91.906 %	0.007 ppb	0.015 ppb	93.376 %	0.325 ppb
Concentration per Run 1	0.991 ppb	0.302 ppb	121.107 ppb	0.721 ppb	90.329 %	0.008 ppb	0.016 ppb	90.476 %	0.311 ppb
Concentration per Run 2	1.071 ppb	0.173 ppb	124.801 ppb	0.670 ppb	92.730 %	0.006 ppb	0.014 ppb	94.269 %	0.346 ppb
Concentration per Run 3	1.081 ppb	0.298 ppb	125.786 ppb	0.754 ppb	92.659 %	0.007 ppb	0.015 ppb	95.382 %	0.317 ppb
Concentration RSD	4.7 %	28.4 %	2.0 %	5.9 %	1.5 %	14.3 %	5.9 %	2.8 %	5.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	43.259 ppb	100.132 %	99.087 %	-0.021 ppb	3.704 ppb	87.319 %
Concentration per Run 1	42.065 ppb	96.384 %	95.676 %	-0.032 ppb	3.650 ppb	84.453 %
Concentration per Run 2	43.855 ppb	101.763 %	100.763 %	-0.013 ppb	3.713 ppb	87.468 %
Concentration per Run 3	43.858 ppb	102.248 %	100.823 %	-0.018 ppb	3.750 ppb	90.038 %
Concentration RSD	2.4 %	3.3 %	3.0 %	46.4 %	1.4 %	3.2 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 22 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/9/2023 5:25:22 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.407 %	94.090 %	60.186 ppb	6,648.417 ppb	6,442.219 ppb	65.659 ppb	6,272.437 ppb	6,229.116 ppb	108.071 %
Concentration per Run 1	105.901 %	100.464 %	60.986 ppb	6,231.344 ppb	6,512.485 ppb	68.251 ppb	5,958.561 ppb	6,074.332 ppb	108.228 %
Concentration per Run 2	105.605 %	84.125 %	58.788 ppb	7,235.516 ppb	6,441.302 ppb	64.927 ppb	6,744.912 ppb	6,486.039 ppb	109.079 %
Concentration per Run 3	104.715 %	97.682 %	60.783 ppb	6,478.391 ppb	6,372.869 ppb	63.799 ppb	6,113.837 ppb	6,126.977 ppb	106.906 %
Recovery Percentage 1			100.309 %	110.807 %	107.370 %	109.432 %	104.541 %	103.819 %	
Concentration RSD	0.6 %	9.3 %	2.0 %	7.9 %	1.1 %	3.5 %	6.6 %	3.6 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	62.058 ppb	63.160 ppb	62.321 ppb	6,198.534 ppb	62.390 ppb	61.697 ppb	61.563 ppb	63.107 ppb	103.564 %
Concentration per Run 1	60.340 ppb	62.761 ppb	60.763 ppb	6,077.366 ppb	61.893 ppb	60.689 ppb	61.478 ppb	62.906 ppb	99.363 %
Concentration per Run 2	63.350 ppb	64.814 ppb	64.256 ppb	6,314.766 ppb	63.777 ppb	62.901 ppb	61.839 ppb	63.902 ppb	104.480 %
Concentration per Run 3	62.485 ppb	61.905 ppb	61.945 ppb	6,203.471 ppb	61.500 ppb	61.503 ppb	61.371 ppb	62.512 ppb	106.848 %
Recovery Percentage 1	103.431 %	105.267 %	103.869 %	103.309 %	103.983 %	102.829 %	102.605 %	105.178 %	
Concentration RSD	2.5 %	2.4 %	2.9 %	1.9 %	2.0 %	1.8 %	0.4 %	1.1 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.893 ppb	59.805 ppb	58.934 ppb	58.092 ppb	97.406 %	60.317 ppb	59.829 ppb	97.554 %	59.211 ppb
Concentration per Run 1	59.810 ppb	62.584 ppb	57.284 ppb	55.926 ppb	93.138 %	59.761 ppb	58.352 ppb	91.958 %	58.611 ppb
Concentration per Run 2	60.543 ppb	58.905 ppb	59.600 ppb	59.717 ppb	99.712 %	60.204 ppb	60.721 ppb	100.167 %	58.775 ppb
Concentration per Run 3	59.326 ppb	57.926 ppb	59.919 ppb	58.633 ppb	99.369 %	60.985 ppb	60.413 ppb	100.538 %	60.249 ppb
Recovery Percentage 1	99.822 %	99.675 %	98.224 %	96.820 %		100.528 %	99.714 %		98.686 %
Concentration RSD	1.0 %	4.1 %	2.4 %	3.4 %	3.8 %	1.0 %	2.2 %	5.0 %	1.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.875 ppb	100.307 %	99.828 %	59.747 ppb	58.694 ppb	95.763 %
Concentration per Run 1	58.431 ppb	95.228 %	94.928 %	57.638 ppb	58.265 ppb	91.709 %
Concentration per Run 2	60.163 ppb	101.759 %	101.055 %	60.519 ppb	58.955 ppb	96.564 %
Concentration per Run 3	61.031 ppb	103.934 %	103.500 %	61.083 ppb	58.862 ppb	99.015 %
Recovery Percentage 1	99.792 %			99.578 %	97.823 %	
Concentration RSD	2.2 %	4.5 %	4.4 %	3.1 %	0.6 %	3.9 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 23 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: CCB Rack: 0
 Analysis started at: 8/9/2023 5:29:54 PM Vial: 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.554 %	100.579 %	-0.002 ppb	12.481 ppb	-1.730 ppb	-0.616 ppb	2.280 ppb	1.342 ppb	106.933 %
Concentration per Run 1	109.318 %	92.816 %	-0.007 ppb	14.289 ppb	-1.696 ppb	-0.445 ppb	5.557 ppb	0.417 ppb	107.354 %
Concentration per Run 2	110.403 %	100.116 %	0.003 ppb	11.159 ppb	-1.447 ppb	-0.603 ppb	1.152 ppb	-0.869 ppb	106.720 %
Concentration per Run 3	108.942 %	108.807 %	-0.003 ppb	11.995 ppb	-2.049 ppb	-0.802 ppb	0.132 ppb	4.478 ppb	106.725 %
Recovery Percentage 1			-0.472 %	12.481 %	-2.472 %	-6.164 %	2.280 %	1.342 %	
Concentration RSD	0.7 %	8.0 %	206.1 %	13.0 %	17.5 %	29.1 %	126.4 %	208.0 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.011 ppb	-0.003 ppb	0.071 ppb	9.753 ppb	0.003 ppb	0.041 ppb	0.048 ppb	0.241 ppb	102.122 %
Concentration per Run 1	0.000 ppb	0.001 ppb	0.129 ppb	8.715 ppb	0.003 ppb	0.013 ppb	0.039 ppb	0.201 ppb	95.771 %
Concentration per Run 2	0.005 ppb	-0.001 ppb	0.071 ppb	11.930 ppb	0.009 ppb	0.088 ppb	0.040 ppb	0.314 ppb	103.352 %
Concentration per Run 3	-0.038 ppb	-0.008 ppb	0.011 ppb	8.614 ppb	-0.002 ppb	0.021 ppb	0.063 ppb	0.209 ppb	107.243 %
Recovery Percentage 1	-0.217 %	-0.265 %	7.053 %	19.506 %	0.630 %	2.033 %	4.758 %	4.824 %	
Concentration RSD	214.7 %	169.7 %	83.6 %	19.3 %	184.5 %	100.8 %	28.4 %	26.1 %	5.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.003 ppb	0.028 ppb	0.007 ppb	0.110 ppb	103.802 %	0.005 ppb	0.002 ppb	102.284 %	0.047 ppb
Concentration per Run 1	0.011 ppb	0.060 ppb	0.008 ppb	0.110 ppb	101.947 %	0.006 ppb	0.001 ppb	100.123 %	0.042 ppb
Concentration per Run 2	0.005 ppb	0.011 ppb	0.004 ppb	0.119 ppb	103.700 %	0.006 ppb	0.003 ppb	103.066 %	0.042 ppb
Concentration per Run 3	-0.008 ppb	0.014 ppb	0.009 ppb	0.102 ppb	105.760 %	0.003 ppb	0.003 ppb	103.663 %	0.056 ppb
Recovery Percentage 1	0.582 %	0.567 %	0.070 %	5.522 %		1.256 %	1.205 %		1.164 %
Concentration RSD	331.8 %	96.8 %	32.3 %	7.7 %	1.8 %	41.7 %	48.5 %	1.9 %	17.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.016 ppb	103.763 %	102.091 %	0.295 ppb	0.006 ppb	101.931 %
Concentration per Run 1	0.025 ppb	101.104 %	98.228 %	0.299 ppb	0.007 ppb	99.712 %
Concentration per Run 2	0.012 ppb	105.217 %	103.572 %	0.327 ppb	0.006 ppb	101.821 %
Concentration per Run 3	0.012 ppb	104.969 %	104.473 %	0.258 ppb	0.006 ppb	104.261 %
Recovery Percentage 1	3.220 %			29.466 %	0.614 %	
Concentration RSD	48.1 %	2.2 %	3.3 %	11.9 %	16.5 %	2.2 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 24 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/9/2023 5:40:41 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.645 %	104.287 %	59.772 ppb	6,262.326 ppb	6,361.759 ppb	61.732 ppb	6,092.066 ppb	6,171.990 ppb	110.205 %
Concentration per Run 1	109.567 %	115.411 %	60.562 ppb	5,771.175 ppb	5,825.088 ppb	59.618 ppb	5,774.612 ppb	5,702.547 ppb	109.798 %
Concentration per Run 2	109.724 %	100.463 %	58.819 ppb	6,518.592 ppb	6,614.210 ppb	59.810 ppb	6,247.006 ppb	6,409.523 ppb	111.674 %
Concentration per Run 3	109.645 %	96.987 %	59.935 ppb	6,497.211 ppb	6,645.978 ppb	65.766 ppb	6,254.581 ppb	6,403.900 ppb	109.142 %
Recovery Percentage 1			99.620 %	104.372 %	106.029 %	102.886 %	101.534 %	102.866 %	
Concentration RSD	0.1 %	9.4 %	1.5 %	6.8 %	7.3 %	5.7 %	4.5 %	6.6 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.603 ppb	62.507 ppb	61.334 ppb	6,161.371 ppb	63.195 ppb	62.796 ppb	63.105 ppb	63.553 ppb	101.903 %
Concentration per Run 1	57.586 ppb	59.160 ppb	58.785 ppb	5,846.600 ppb	60.859 ppb	61.082 ppb	60.352 ppb	61.265 ppb	103.409 %
Concentration per Run 2	61.828 ppb	62.632 ppb	61.486 ppb	6,203.452 ppb	63.308 ppb	61.050 ppb	63.024 ppb	63.243 ppb	103.971 %
Concentration per Run 3	62.394 ppb	65.728 ppb	63.730 ppb	6,434.061 ppb	65.419 ppb	66.255 ppb	65.940 ppb	66.151 ppb	98.329 %
Recovery Percentage 1	101.004 %	104.178 %	102.223 %	102.690 %	105.325 %	104.660 %	105.176 %	105.922 %	
Concentration RSD	4.3 %	5.3 %	4.0 %	4.8 %	3.6 %	4.8 %	4.4 %	3.9 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.462 ppb	62.021 ppb	60.705 ppb	59.321 ppb	102.159 %	60.279 ppb	59.934 ppb	101.299 %	58.139 ppb
Concentration per Run 1	59.608 ppb	59.732 ppb	58.885 ppb	58.046 ppb	101.366 %	58.872 ppb	58.854 ppb	100.914 %	57.402 ppb
Concentration per Run 2	61.483 ppb	61.229 ppb	59.921 ppb	59.294 ppb	102.753 %	60.294 ppb	59.764 ppb	103.468 %	58.111 ppb
Concentration per Run 3	63.294 ppb	65.102 ppb	63.308 ppb	60.622 ppb	102.359 %	61.671 ppb	61.183 ppb	99.516 %	58.905 ppb
Recovery Percentage 1	102.436 %	103.369 %	101.175 %	98.868 %		100.465 %	99.890 %		96.899 %
Concentration RSD	3.0 %	4.5 %	3.8 %	2.2 %	0.7 %	2.3 %	2.0 %	2.0 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.919 ppb	102.190 %	101.111 %	60.077 ppb	58.963 ppb	97.407 %
Concentration per Run 1	58.508 ppb	101.165 %	99.740 %	57.724 ppb	57.601 ppb	96.128 %
Concentration per Run 2	59.201 ppb	103.348 %	102.135 %	60.506 ppb	59.091 ppb	98.933 %
Concentration per Run 3	59.047 ppb	102.056 %	101.458 %	62.001 ppb	60.198 ppb	97.160 %
Recovery Percentage 1	98.198 %			100.128 %	98.272 %	
Concentration RSD	0.6 %	1.1 %	1.2 %	3.6 %	2.2 %	1.5 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 25 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/9/2023 5:45:13 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	111.793 %	106.026 %	0.002 ppb	26.877 ppb	-1.419 ppb	-0.289 ppb	0.326 ppb	10.051 ppb	108.913 %
Concentration per Run 1	111.871 %	116.107 %	0.000 ppb	70.718 ppb	-0.945 ppb	-0.122 ppb	6.596 ppb	22.784 ppb	109.123 %
Concentration per Run 2	111.738 %	99.768 %	0.007 ppb	4.920 ppb	-1.068 ppb	-0.228 ppb	-1.675 ppb	2.642 ppb	108.119 %
Concentration per Run 3	111.768 %	102.202 %	0.000 ppb	4.994 ppb	-2.244 ppb	-0.517 ppb	-3.941 ppb	4.725 ppb	109.497 %
Recovery Percentage 1			0.435 %	26.877 %	-2.028 %	-2.888 %	0.326 %	10.051 %	
Concentration RSD	0.1 %	8.3 %	211.7 %	141.3 %	50.5 %	70.8 %	1,699.0 %	110.2 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.008 ppb	0.008 ppb	0.104 ppb	8.397 ppb	0.006 ppb	0.030 ppb	0.034 ppb	0.346 ppb	105.116 %
Concentration per Run 1	0.024 ppb	0.021 ppb	0.192 ppb	8.270 ppb	0.006 ppb	0.020 ppb	0.043 ppb	0.426 ppb	106.692 %
Concentration per Run 2	0.014 ppb	0.011 ppb	0.095 ppb	10.141 ppb	0.002 ppb	0.056 ppb	0.025 ppb	0.348 ppb	102.132 %
Concentration per Run 3	-0.013 ppb	-0.009 ppb	0.024 ppb	6.779 ppb	0.009 ppb	0.016 ppb	0.034 ppb	0.265 ppb	106.526 %
Recovery Percentage 1	0.163 %	0.774 %	10.359 %	16.793 %	1.170 %	1.521 %	3.371 %	6.925 %	
Concentration RSD	232.8 %	202.5 %	81.6 %	20.1 %	56.8 %	71.9 %	26.3 %	23.2 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.009 ppb	0.051 ppb	0.025 ppb	0.094 ppb	104.629 %	0.006 ppb	0.003 ppb	103.084 %	0.042 ppb
Concentration per Run 1	0.004 ppb	0.055 ppb	0.068 ppb	0.116 ppb	106.352 %	0.012 ppb	0.010 ppb	108.685 %	0.039 ppb
Concentration per Run 2	0.018 ppb	0.018 ppb	0.003 ppb	0.073 ppb	105.095 %	0.003 ppb	-0.001 ppb	102.746 %	0.042 ppb
Concentration per Run 3	0.004 ppb	0.081 ppb	0.004 ppb	0.091 ppb	102.440 %	0.002 ppb	0.001 ppb	97.821 %	0.044 ppb
Recovery Percentage 1	1.755 %	1.028 %	0.252 %	4.677 %		1.426 %	1.658 %		1.045 %
Concentration RSD	88.0 %	61.3 %	147.8 %	22.7 %	1.9 %	102.9 %	176.2 %	5.3 %	6.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.020 ppb	105.935 %	104.711 %	0.320 ppb	0.008 ppb	105.475 %
Concentration per Run 1	0.034 ppb	106.877 %	107.369 %	0.323 ppb	0.012 ppb	104.861 %
Concentration per Run 2	-0.001 ppb	106.866 %	105.021 %	0.362 ppb	0.004 ppb	104.755 %
Concentration per Run 3	0.025 ppb	104.063 %	101.742 %	0.274 ppb	0.006 ppb	106.809 %
Recovery Percentage 1	3.907 %			31.965 %		0.752 %
Concentration RSD	92.1 %	1.5 %	2.7 %	13.9 %	56.3 %	1.1 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 26 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: wg1813496-1 2008TL Rack: 2
 Analysis started at: 8/9/2023 5:50:13 PM Vial: 31

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	116.032 %	103.013 %	-0.001 ppb	6.175 ppb	1.126 ppb	1.144 ppb	1.705 ppb	3.451 ppb	112.230 %
Concentration per Run 1	114.718 %	100.811 %	0.001 ppb	7.062 ppb	1.176 ppb	1.006 ppb	-2.043 ppb	0.184 ppb	111.362 %
Concentration per Run 2	117.184 %	102.897 %	-0.001 ppb	6.334 ppb	0.292 ppb	1.151 ppb	5.426 ppb	5.699 ppb	113.016 %
Concentration per Run 3	116.195 %	105.330 %	-0.004 ppb	5.128 ppb	1.910 ppb	1.276 ppb	1.733 ppb	4.471 ppb	112.311 %
Concentration RSD	1.1 %	2.2 %	161.4 %	15.8 %	72.0 %	11.8 %	219.0 %	83.9 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.025 ppb	-0.010 ppb	0.036 ppb	0.624 ppb	0.000 ppb	0.022 ppb	0.035 ppb	0.269 ppb	110.340 %
Concentration per Run 1	-0.022 ppb	-0.003 ppb	0.000 ppb	0.690 ppb	0.000 ppb	0.075 ppb	0.061 ppb	0.337 ppb	111.205 %
Concentration per Run 2	-0.030 ppb	-0.010 ppb	0.022 ppb	-0.102 ppb	-0.002 ppb	-0.004 ppb	0.017 ppb	0.206 ppb	109.824 %
Concentration per Run 3	-0.022 ppb	-0.017 ppb	0.086 ppb	1.284 ppb	0.002 ppb	-0.005 ppb	0.027 ppb	0.264 ppb	109.989 %
Concentration RSD	18.2 %	70.0 %	123.6 %	111.4 %	1,107.6 %	206.0 %	66.1 %	24.3 %	0.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.012 ppb	-0.030 ppb	0.005 ppb	0.015 ppb	108.440 %	0.001 ppb	0.000 ppb	107.215 %	0.011 ppb
Concentration per Run 1	-0.012 ppb	-0.029 ppb	0.004 ppb	0.010 ppb	106.601 %	0.002 ppb	0.001 ppb	105.984 %	0.003 ppb
Concentration per Run 2	-0.012 ppb	-0.027 ppb	0.003 ppb	0.010 ppb	108.182 %	0.002 ppb	0.000 ppb	106.873 %	0.020 ppb
Concentration per Run 3	-0.012 ppb	-0.036 ppb	0.008 ppb	0.026 ppb	110.537 %	0.000 ppb	-0.001 ppb	108.787 %	0.008 ppb
Concentration RSD	0.4 %	15.1 %	52.6 %	60.2 %	1.8 %	65.4 %	1,417.9 %	1.3 %	80.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.075 ppb	108.006 %	107.072 %	0.050 ppb	0.004 ppb	108.321 %
Concentration per Run 1	0.071 ppb	104.759 %	104.490 %	0.027 ppb	0.004 ppb	105.962 %
Concentration per Run 2	0.081 ppb	109.176 %	108.034 %	0.065 ppb	0.005 ppb	107.754 %
Concentration per Run 3	0.072 ppb	110.084 %	108.692 %	0.059 ppb	0.003 ppb	111.248 %
Concentration RSD	7.2 %	2.6 %	2.1 %	40.7 %	16.6 %	2.5 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 27 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1811915-1 2008TL Rack: 2
 Analysis started at: 8/9/2023 5:54:42 PM Vial: 37

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	115.604 %	103.708 %	-0.003 ppb	7.500 ppb	-0.075 ppb	0.615 ppb	-1.245 ppb	14.144 ppb	113.398 %
Concentration per Run 1	115.932 %	91.425 %	-0.003 ppb	8.116 ppb	-0.393 ppb	0.462 ppb	-0.270 ppb	17.782 ppb	114.255 %
Concentration per Run 2	114.641 %	118.193 %	-0.001 ppb	6.216 ppb	-0.712 ppb	0.470 ppb	-1.808 ppb	13.533 ppb	112.381 %
Concentration per Run 3	116.241 %	101.506 %	-0.006 ppb	8.168 ppb	0.879 ppb	0.914 ppb	-1.658 ppb	11.115 ppb	113.560 %
Concentration RSD	0.7 %	13.0 %	80.8 %	14.8 %	1,116.1 %	42.0 %	68.1 %	23.9 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.029 ppb	0.005 ppb	0.182 ppb	0.101 ppb	0.002 ppb	0.054 ppb	0.027 ppb	0.616 ppb	108.862 %
Concentration per Run 1	-0.020 ppb	0.001 ppb	0.195 ppb	-0.414 ppb	0.002 ppb	0.068 ppb	0.029 ppb	0.649 ppb	107.434 %
Concentration per Run 2	-0.038 ppb	0.003 ppb	0.167 ppb	0.625 ppb	0.000 ppb	0.002 ppb	0.037 ppb	0.633 ppb	108.402 %
Concentration per Run 3	-0.030 ppb	0.011 ppb	0.184 ppb	0.092 ppb	0.004 ppb	0.092 ppb	0.017 ppb	0.564 ppb	110.752 %
Concentration RSD	30.8 %	108.4 %	7.7 %	515.4 %	107.8 %	86.5 %	36.2 %	7.3 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.013 ppb	-0.016 ppb	0.013 ppb	0.009 ppb	109.087 %	0.001 ppb	0.000 ppb	107.301 %	0.012 ppb
Concentration per Run 1	-0.016 ppb	-0.032 ppb	0.012 ppb	0.003 ppb	108.626 %	0.003 ppb	0.000 ppb	102.132 %	0.012 ppb
Concentration per Run 2	-0.008 ppb	-0.008 ppb	0.015 ppb	0.013 ppb	108.719 %	-0.001 ppb	-0.001 ppb	109.181 %	0.013 ppb
Concentration per Run 3	-0.016 ppb	-0.009 ppb	0.012 ppb	0.009 ppb	109.915 %	0.001 ppb	0.000 ppb	110.591 %	0.011 ppb
Concentration RSD	34.7 %	81.6 %	13.2 %	58.2 %	0.7 %	148.1 %	140.6 %	4.2 %	8.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.028 ppb	107.129 %	105.573 %	0.018 ppb	0.011 ppb	107.586 %
Concentration per Run 1	0.029 ppb	102.038 %	99.023 %	-0.001 ppb	0.012 ppb	101.423 %
Concentration per Run 2	0.018 ppb	108.970 %	108.328 %	0.030 ppb	0.011 ppb	109.462 %
Concentration per Run 3	0.037 ppb	110.380 %	109.368 %	0.024 ppb	0.011 ppb	111.874 %
Concentration RSD	33.4 %	4.2 %	5.4 %	94.2 %	3.7 %	5.1 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 28 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: wg1813496-2D10 2008TL Rack: 2
 Analysis started at: 8/9/2023 5:59:12 PM Vial: 32

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	111.177 %	97.335 %	5.459 ppb	1,132.153 ppb	1,115.483 ppb	226.693 ppb	1,101.636 ppb	1,090.192 ppb	108.475 %
Concentration per Run 1	111.270 %	95.249 %	5.521 ppb	1,100.825 ppb	1,068.895 ppb	215.330 ppb	1,132.726 ppb	997.758 ppb	108.857 %
Concentration per Run 2	111.210 %	91.773 %	5.483 ppb	1,204.718 ppb	1,196.309 ppb	231.890 ppb	1,102.319 ppb	1,150.927 ppb	107.860 %
Concentration per Run 3	111.052 %	104.983 %	5.373 ppb	1,090.914 ppb	1,081.245 ppb	232.859 ppb	1,069.863 ppb	1,121.891 ppb	108.709 %
Concentration RSD	0.1 %	7.0 %	1.4 %	5.6 %	6.3 %	4.3 %	2.9 %	7.5 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	54.875 ppb	22.454 ppb	55.063 ppb	112.178 ppb	55.253 ppb	55.440 ppb	28.345 ppb	56.624 ppb	106.052 %
Concentration per Run 1	53.322 ppb	21.830 ppb	53.563 ppb	111.595 ppb	54.740 ppb	54.511 ppb	27.403 ppb	55.493 ppb	103.973 %
Concentration per Run 2	57.467 ppb	23.100 ppb	56.496 ppb	116.646 ppb	56.513 ppb	57.629 ppb	29.635 ppb	58.378 ppb	105.477 %
Concentration per Run 3	53.836 ppb	22.430 ppb	55.129 ppb	108.294 ppb	54.507 ppb	54.178 ppb	27.996 ppb	56.000 ppb	108.705 %
Concentration RSD	4.1 %	2.8 %	2.7 %	3.7 %	2.0 %	3.4 %	4.1 %	2.7 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.047 ppb	12.963 ppb	104.291 ppb	101.660 ppb	104.691 %	5.441 ppb	5.783 ppb	105.125 %	48.695 ppb
Concentration per Run 1	12.682 ppb	12.594 ppb	103.326 ppb	99.975 ppb	104.154 %	5.331 ppb	5.753 ppb	104.441 %	47.106 ppb
Concentration per Run 2	13.259 ppb	12.858 ppb	105.103 ppb	103.099 ppb	105.179 %	5.440 ppb	5.804 ppb	106.393 %	48.459 ppb
Concentration per Run 3	13.202 ppb	13.435 ppb	104.442 ppb	101.905 ppb	104.740 %	5.553 ppb	5.791 ppb	104.542 %	50.519 ppb
Concentration RSD	2.4 %	3.3 %	0.9 %	1.6 %	0.5 %	2.0 %	0.5 %	1.0 %	3.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	214.557 ppb	106.822 %	105.390 %	12.958 ppb	55.630 ppb	103.886 %
Concentration per Run 1	213.267 ppb	104.177 %	102.415 %	12.811 ppb	54.967 ppb	101.111 %
Concentration per Run 2	215.079 ppb	108.477 %	107.674 %	12.878 ppb	55.503 ppb	104.779 %
Concentration per Run 3	215.325 ppb	107.810 %	106.082 %	13.185 ppb	56.419 ppb	105.767 %
Concentration RSD	0.5 %	2.2 %	2.6 %	1.5 %	1.3 %	2.4 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 29 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1811915-2D10 2008TL Rack: 2
 Analysis started at: 8/9/2023 6:03:41 PM Vial: 38

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.633 %	104.983 %	5.508 ppb	1,050.964 ppb	1,028.117 ppb	213.311 ppb	1,019.280 ppb	1,020.450 ppb	106.543 %
Concentration per Run 1	109.800 %	108.111 %	5.547 ppb	1,013.101 ppb	1,021.968 ppb	204.409 ppb	980.234 ppb	1,001.776 ppb	106.819 %
Concentration per Run 2	109.354 %	99.421 %	5.405 ppb	1,117.414 ppb	1,078.567 ppb	227.953 ppb	1,051.480 ppb	1,054.435 ppb	106.155 %
Concentration per Run 3	109.746 %	107.416 %	5.570 ppb	1,022.378 ppb	983.815 ppb	207.572 ppb	1,026.128 ppb	1,005.140 ppb	106.654 %
Concentration RSD	0.2 %	4.6 %	1.6 %	5.5 %	4.6 %	6.0 %	3.5 %	2.9 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	54.044 ppb	21.870 ppb	55.392 ppb	109.816 ppb	54.699 ppb	53.640 ppb	28.066 ppb	56.092 ppb	101.854 %
Concentration per Run 1	53.253 ppb	21.501 ppb	54.470 ppb	109.687 ppb	54.357 ppb	51.436 ppb	27.675 ppb	55.232 ppb	103.545 %
Concentration per Run 2	54.428 ppb	22.141 ppb	56.061 ppb	108.971 ppb	54.879 ppb	54.650 ppb	28.030 ppb	57.056 ppb	104.472 %
Concentration per Run 3	54.451 ppb	21.967 ppb	55.646 ppb	110.790 ppb	54.862 ppb	54.833 ppb	28.493 ppb	55.989 ppb	97.545 %
Concentration RSD	1.3 %	1.5 %	1.5 %	0.8 %	0.5 %	3.6 %	1.5 %	1.6 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.027 ppb	13.296 ppb	100.105 ppb	97.174 ppb	103.370 %	5.422 ppb	5.688 ppb	103.262 %	48.869 ppb
Concentration per Run 1	12.965 ppb	12.794 ppb	98.834 ppb	93.672 ppb	103.074 %	5.339 ppb	5.596 ppb	103.995 %	47.078 ppb
Concentration per Run 2	13.215 ppb	13.278 ppb	100.623 ppb	97.387 ppb	103.754 %	5.435 ppb	5.775 ppb	103.826 %	49.639 ppb
Concentration per Run 3	12.901 ppb	13.816 ppb	100.857 ppb	100.464 ppb	103.281 %	5.493 ppb	5.692 ppb	101.966 %	49.889 ppb
Concentration RSD	1.3 %	3.8 %	1.1 %	3.5 %	0.3 %	1.4 %	1.6 %	1.1 %	3.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	211.615 ppb	105.880 %	105.274 %	12.608 ppb	54.215 ppb	103.226 %
Concentration per Run 1	206.065 ppb	104.760 %	104.005 %	12.465 ppb	53.189 ppb	101.517 %
Concentration per Run 2	216.236 ppb	107.029 %	105.582 %	12.728 ppb	54.938 ppb	103.046 %
Concentration per Run 3	212.544 ppb	105.852 %	106.236 %	12.629 ppb	54.519 ppb	105.116 %
Concentration RSD	2.4 %	1.1 %	1.1 %	1.1 %	1.7 %	1.7 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 30 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: wg1813496-3D10 2008TL Rack: 2
 Analysis started at: 8/9/2023 6:08:10 PM Vial: 34

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.429 %	99.073 %	5.460 ppb	11,347.084 ppb	1,533.154 ppb	246.038 ppb	4,572.598 ppb	7,215.010 ppb	103.938 %
Concentration per Run 1	105.393 %	95.944 %	5.521 ppb	12,049.136 ppb	1,631.690 ppb	269.853 ppb	4,860.274 ppb	7,580.391 ppb	103.563 %
Concentration per Run 2	105.670 %	99.768 %	5.501 ppb	11,088.627 ppb	1,486.133 ppb	233.072 ppb	4,505.263 ppb	7,147.234 ppb	104.078 %
Concentration per Run 3	105.224 %	101.506 %	5.357 ppb	10,903.490 ppb	1,481.641 ppb	235.190 ppb	4,352.257 ppb	6,917.405 ppb	104.174 %
Concentration RSD	0.2 %	2.9 %	1.6 %	5.4 %	5.6 %	8.4 %	5.7 %	4.7 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	53.228 ppb	22.723 ppb	57.463 ppb	127.421 ppb	53.391 ppb	53.522 ppb	29.343 ppb	55.594 ppb	102.080 %
Concentration per Run 1	52.858 ppb	23.059 ppb	58.651 ppb	130.889 ppb	52.619 ppb	53.569 ppb	29.246 ppb	54.910 ppb	105.680 %
Concentration per Run 2	53.437 ppb	22.295 ppb	56.799 ppb	122.377 ppb	53.343 ppb	53.140 ppb	28.903 ppb	55.412 ppb	104.478 %
Concentration per Run 3	53.391 ppb	22.816 ppb	56.938 ppb	128.995 ppb	54.211 ppb	53.856 ppb	29.880 ppb	56.460 ppb	96.083 %
Concentration RSD	0.6 %	1.7 %	1.8 %	3.5 %	1.5 %	0.7 %	1.7 %	1.4 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.105 ppb	12.769 ppb	141.437 ppb	103.129 ppb	98.773 %	5.302 ppb	5.707 ppb	102.900 %	50.365 ppb
Concentration per Run 1	12.987 ppb	12.940 ppb	145.376 ppb	99.755 ppb	99.411 %	5.150 ppb	5.559 ppb	107.554 %	49.360 ppb
Concentration per Run 2	13.017 ppb	12.901 ppb	137.646 ppb	102.855 ppb	98.821 %	5.320 ppb	5.761 ppb	100.682 %	50.561 ppb
Concentration per Run 3	13.312 ppb	12.467 ppb	141.288 ppb	106.778 ppb	98.088 %	5.437 ppb	5.802 ppb	100.465 %	51.175 ppb
Concentration RSD	1.4 %	2.1 %	2.7 %	3.4 %	0.7 %	2.7 %	2.3 %	3.9 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	211.969 ppb	104.426 %	104.745 %	12.696 ppb	54.297 ppb	99.389 %
Concentration per Run 1	212.126 ppb	104.465 %	106.592 %	12.486 ppb	53.155 ppb	98.920 %
Concentration per Run 2	211.906 ppb	103.035 %	102.693 %	12.885 ppb	54.781 ppb	98.565 %
Concentration per Run 3	211.876 ppb	105.779 %	104.951 %	12.718 ppb	54.954 ppb	100.684 %
Concentration RSD	0.1 %	1.3 %	1.9 %	1.6 %	1.8 %	1.1 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 31 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: wg1813496-4 2008TL Rack: 2
 Analysis started at: 8/9/2023 6:12:40 PM Vial: 35

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.002 %	97.103 %	0.004 ppb	108,422.048 ppb	4,768.256 ppb	221.898 ppb	35,490.671 ppb	62,777.838 ppb	106.930 %
Concentration per Run 1	106.256 %	98.030 %	0.005 ppb	106,484.938 ppb	4,716.565 ppb	219.185 ppb	35,845.508 ppb	63,938.702 ppb	107.726 %
Concentration per Run 2	104.694 %	101.854 %	0.004 ppb	103,593.295 ppb	4,619.968 ppb	213.925 ppb	34,386.826 ppb	60,884.444 ppb	106.530 %
Concentration per Run 3	104.057 %	91.425 %	0.004 ppb	115,187.911 ppb	4,968.235 ppb	232.586 ppb	36,239.681 ppb	63,510.369 ppb	106.534 %
Concentration RSD	1.1 %	5.4 %	18.0 %	5.6 %	3.8 %	4.3 %	2.8 %	2.6 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	7.277 ppb	10.821 ppb	30.061 ppb	179.457 ppb	0.409 ppb	5.349 ppb	20.185 ppb	14.108 ppb	98.209 %
Concentration per Run 1	7.037 ppb	10.730 ppb	29.729 ppb	174.796 ppb	0.391 ppb	5.185 ppb	19.108 ppb	13.744 ppb	97.778 %
Concentration per Run 2	7.144 ppb	10.555 ppb	29.444 ppb	175.456 ppb	0.401 ppb	5.326 ppb	20.655 ppb	14.023 ppb	96.835 %
Concentration per Run 3	7.651 ppb	11.178 ppb	31.010 ppb	188.117 ppb	0.434 ppb	5.536 ppb	20.791 ppb	14.558 ppb	100.014 %
Concentration RSD	4.5 %	3.0 %	2.8 %	4.2 %	5.5 %	3.3 %	4.6 %	2.9 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.864 ppb	0.693 ppb	396.578 ppb	11.300 ppb	91.034 %	0.004 ppb	0.207 ppb	97.123 %	1.890 ppb
Concentration per Run 1	4.675 ppb	0.787 ppb	407.293 ppb	11.061 ppb	90.333 %	0.003 ppb	0.212 ppb	98.398 %	1.829 ppb
Concentration per Run 2	5.073 ppb	0.598 ppb	392.877 ppb	11.460 ppb	90.222 %	0.006 ppb	0.205 ppb	94.953 %	1.937 ppb
Concentration per Run 3	4.844 ppb	0.694 ppb	389.564 ppb	11.379 ppb	92.546 %	0.003 ppb	0.204 ppb	98.017 %	1.903 ppb
Concentration RSD	4.1 %	13.6 %	2.4 %	1.9 %	1.4 %	47.3 %	2.0 %	1.9 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	39.235 ppb	101.227 %	101.880 %	0.034 ppb	1.435 ppb	89.658 %
Concentration per Run 1	38.609 ppb	98.658 %	101.005 %	0.021 ppb	1.394 ppb	87.485 %
Concentration per Run 2	40.427 ppb	100.391 %	99.718 %	0.047 ppb	1.466 ppb	88.702 %
Concentration per Run 3	38.670 ppb	104.632 %	104.919 %	0.035 ppb	1.446 ppb	92.786 %
Concentration RSD	2.6 %	3.0 %	2.7 %	37.5 %	2.6 %	3.1 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 32 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2345788-01 2008TL Rack 2
 Analysis started at: 8/9/2023 6:17:10 PM Vial 33

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.312 %	102.897 %	0.009 ppb	106,759.557 ppb	4,656.952 ppb	212.177 ppb	34,543.177 ppb	61,031.854 ppb	107.671 %
Concentration per Run 1	104.545 %	111.588 %	0.017 ppb	101,007.258 ppb	4,452.009 ppb	197.804 ppb	33,988.288 ppb	60,282.681 ppb	107.719 %
Concentration per Run 2	106.375 %	98.030 %	0.007 ppb	109,240.435 ppb	4,776.887 ppb	219.462 ppb	34,298.884 ppb	59,920.800 ppb	108.109 %
Concentration per Run 3	105.015 %	99.073 %	0.004 ppb	110,030.979 ppb	4,741.960 ppb	219.264 ppb	35,342.358 ppb	62,892.082 ppb	107.186 %
Concentration RSD	0.9 %	7.3 %	76.4 %	4.7 %	3.8 %	5.9 %	2.1 %	2.7 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	7.303 ppb	10.722 ppb	29.415 ppb	179.082 ppb	0.413 ppb	5.192 ppb	19.637 ppb	13.702 ppb	101.065 %
Concentration per Run 1	7.047 ppb	10.311 ppb	29.186 ppb	172.806 ppb	0.392 ppb	4.981 ppb	18.993 ppb	13.341 ppb	102.199 %
Concentration per Run 2	7.561 ppb	10.668 ppb	29.417 ppb	177.345 ppb	0.428 ppb	5.117 ppb	19.560 ppb	13.589 ppb	101.910 %
Concentration per Run 3	7.301 ppb	11.185 ppb	29.641 ppb	187.095 ppb	0.420 ppb	5.479 ppb	20.357 ppb	14.176 ppb	99.086 %
Concentration RSD	3.5 %	4.1 %	0.8 %	4.1 %	4.6 %	5.0 %	3.5 %	3.1 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.527 ppb	0.695 ppb	390.125 ppb	10.873 ppb	91.500 %	0.003 ppb	0.200 ppb	98.134 %	1.572 ppb
Concentration per Run 1	4.399 ppb	0.840 ppb	396.963 ppb	10.902 ppb	90.278 %	0.003 ppb	0.220 ppb	100.551 %	1.538 ppb
Concentration per Run 2	4.604 ppb	0.613 ppb	384.972 ppb	10.709 ppb	92.150 %	0.004 ppb	0.175 ppb	96.321 %	1.599 ppb
Concentration per Run 3	4.578 ppb	0.631 ppb	388.441 ppb	11.009 ppb	92.071 %	0.002 ppb	0.207 ppb	97.528 %	1.579 ppb
Concentration RSD	2.5 %	18.2 %	1.6 %	1.4 %	1.2 %	26.8 %	11.6 %	2.2 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	39.385 ppb	102.913 %	103.083 %	0.015 ppb	1.416 ppb	89.633 %
Concentration per Run 1	39.354 ppb	102.044 %	103.249 %	0.000 ppb	1.383 ppb	87.685 %
Concentration per Run 2	38.863 ppb	101.829 %	101.793 %	0.023 ppb	1.431 ppb	88.889 %
Concentration per Run 3	39.939 ppb	104.864 %	104.206 %	0.023 ppb	1.434 ppb	92.324 %
Concentration RSD	1.4 %	1.6 %	1.2 %	89.2 %	2.0 %	2.7 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 33 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2345788-02 2008TL Rack 2
 Analysis started at: 8/9/2023 6:21:39 PM Vial 36

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.762 %	101.275 %	0.000 ppb	108,661.365 ppb	4,714.895 ppb	223.064 ppb	36,238.360 ppb	61,740.453 ppb	108.045 %
Concentration per Run 1	107.116 %	95.944 %	0.000 ppb	110,653.493 ppb	4,783.169 ppb	229.788 ppb	36,166.293 ppb	60,731.890 ppb	108.227 %
Concentration per Run 2	106.592 %	96.640 %	0.004 ppb	113,685.503 ppb	4,996.488 ppb	237.493 ppb	38,398.084 ppb	65,222.790 ppb	107.283 %
Concentration per Run 3	106.578 %	111.240 %	-0.005 ppb	101,645.101 ppb	4,365.027 ppb	201.911 ppb	34,150.702 ppb	59,266.680 ppb	108.627 %
Concentration RSD	0.3 %	8.5 %	1,049.2 %	5.8 %	6.8 %	8.4 %	5.9 %	5.0 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	7.407 ppb	10.565 ppb	28.411 ppb	176.721 ppb	0.376 ppb	5.247 ppb	19.985 ppb	13.370 ppb	99.277 %
Concentration per Run 1	7.490 ppb	10.368 ppb	26.651 ppb	169.879 ppb	0.323 ppb	5.031 ppb	19.116 ppb	12.907 ppb	100.509 %
Concentration per Run 2	7.373 ppb	10.899 ppb	30.576 ppb	178.277 ppb	0.417 ppb	5.523 ppb	21.235 ppb	13.455 ppb	99.911 %
Concentration per Run 3	7.358 ppb	10.429 ppb	28.005 ppb	182.006 ppb	0.388 ppb	5.187 ppb	19.605 ppb	13.749 ppb	97.412 %
Concentration RSD	1.0 %	2.7 %	7.0 %	3.5 %	12.9 %	4.8 %	5.6 %	3.2 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.552 ppb	0.516 ppb	393.548 ppb	11.084 ppb	92.143 %	0.005 ppb	0.224 ppb	97.926 %	1.624 ppb
Concentration per Run 1	4.301 ppb	0.530 ppb	390.620 ppb	11.097 ppb	90.996 %	0.006 ppb	0.211 ppb	98.738 %	1.566 ppb
Concentration per Run 2	4.825 ppb	0.605 ppb	396.913 ppb	10.974 ppb	91.991 %	0.004 ppb	0.225 ppb	96.866 %	1.664 ppb
Concentration per Run 3	4.530 ppb	0.415 ppb	393.112 ppb	11.181 ppb	93.441 %	0.004 ppb	0.238 ppb	98.174 %	1.640 ppb
Concentration RSD	5.8 %	18.5 %	0.8 %	0.9 %	1.3 %	20.1 %	6.0 %	1.0 %	3.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	38.479 ppb	102.376 %	102.764 %	0.010 ppb	1.301 ppb	89.317 %
Concentration per Run 1	37.750 ppb	99.653 %	100.264 %	0.001 ppb	1.286 ppb	86.836 %
Concentration per Run 2	38.705 ppb	102.374 %	102.946 %	0.016 ppb	1.305 ppb	88.984 %
Concentration per Run 3	38.982 ppb	105.102 %	105.084 %	0.014 ppb	1.313 ppb	92.132 %
Concentration RSD	1.7 %	2.7 %	2.4 %	78.4 %	1.1 %	3.0 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 34 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1811915-4 2008TL Rack: 2
 Analysis started at: 8/9/2023 6:26:09 PM Vial: 41

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.476 %	96.408 %	0.013 ppb	263,662.384 ppb	10,554.285 ppb	55.717 ppb	14,557.832 ppb	85,264.416 ppb	113.996 %
Concentration per Run 1	108.048 %	97.335 %	0.006 ppb	250,201.252 ppb	10,001.352 ppb	48.818 ppb	13,906.560 ppb	80,801.670 ppb	115.592 %
Concentration per Run 2	108.318 %	98.378 %	0.019 ppb	271,788.270 ppb	10,985.644 ppb	60.109 ppb	15,349.304 ppb	89,757.383 ppb	113.503 %
Concentration per Run 3	106.061 %	93.511 %	0.012 ppb	268,997.631 ppb	10,675.860 ppb	58.223 ppb	14,417.631 ppb	85,234.195 ppb	112.893 %
Concentration RSD	1.1 %	2.7 %	52.0 %	4.5 %	4.8 %	10.9 %	5.0 %	5.3 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.233 ppb	0.769 ppb	223.384 ppb	2,776.287 ppb	1.549 ppb	1.372 ppb	6.658 ppb	21.298 ppb	99.248 %
Concentration per Run 1	2.182 ppb	0.768 ppb	214.652 ppb	2,681.489 ppb	1.617 ppb	1.405 ppb	6.354 ppb	20.906 ppb	95.310 %
Concentration per Run 2	2.276 ppb	0.805 ppb	233.128 ppb	2,854.731 ppb	1.494 ppb	1.290 ppb	6.806 ppb	21.483 ppb	100.999 %
Concentration per Run 3	2.240 ppb	0.735 ppb	222.373 ppb	2,792.642 ppb	1.534 ppb	1.421 ppb	6.813 ppb	21.506 ppb	101.436 %
Concentration RSD	2.1 %	4.5 %	4.2 %	3.2 %	4.0 %	5.2 %	3.9 %	1.6 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.028 ppb	0.891 ppb	470.788 ppb	13.234 ppb	90.457 %	0.005 ppb	0.054 ppb	96.089 %	0.679 ppb
Concentration per Run 1	4.029 ppb	0.726 ppb	453.311 ppb	13.360 ppb	87.451 %	0.005 ppb	0.059 ppb	90.784 %	0.666 ppb
Concentration per Run 2	3.987 ppb	0.924 ppb	497.181 ppb	13.111 ppb	91.555 %	0.003 ppb	0.051 ppb	100.893 %	0.708 ppb
Concentration per Run 3	4.069 ppb	1.023 ppb	461.873 ppb	13.231 ppb	92.364 %	0.007 ppb	0.051 ppb	96.590 %	0.662 ppb
Concentration RSD	1.0 %	17.0 %	4.9 %	0.9 %	2.9 %	47.3 %	8.8 %	5.3 %	3.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	61.913 ppb	101.678 %	101.458 %	0.000 ppb	0.325 ppb	85.397 %
Concentration per Run 1	61.459 ppb	95.887 %	95.029 %	-0.013 ppb	0.315 ppb	80.713 %
Concentration per Run 2	62.419 ppb	104.950 %	106.590 %	0.001 ppb	0.327 ppb	87.367 %
Concentration per Run 3	61.862 ppb	104.198 %	102.754 %	0.011 ppb	0.333 ppb	88.112 %
Concentration RSD	0.8 %	4.9 %	5.8 %	6,655.8 %	2.8 %	4.8 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 35 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2345014-01 2008TL Rack 2
 Analysis started at: 8/9/2023 6:30:39 PM Vial 39

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	108.555 %	96.640 %	0.009 ppb	271,780.196 ppb	10,959.951 ppb	57.993 ppb	14,932.869 ppb	87,278.243 ppb	115.501 %
Concentration per Run 1	108.945 %	92.468 %	0.008 ppb	266,580.249 ppb	10,764.470 ppb	56.324 ppb	14,621.310 ppb	85,238.911 ppb	115.268 %
Concentration per Run 2	108.180 %	104.635 %	0.013 ppb	268,265.114 ppb	10,815.705 ppb	59.585 ppb	15,447.775 ppb	88,994.565 ppb	116.200 %
Concentration per Run 3	108.541 %	92.816 %	0.006 ppb	280,495.226 ppb	11,299.678 ppb	58.070 ppb	14,729.521 ppb	87,601.252 ppb	115.035 %
Concentration RSD	0.4 %	7.2 %	37.9 %	2.8 %	2.7 %	2.8 %	3.0 %	2.2 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.432 ppb	0.784 ppb	227.002 ppb	2,851.792 ppb	1.592 ppb	1.465 ppb	6.707 ppb	21.137 ppb	102.055 %
Concentration per Run 1	2.235 ppb	0.756 ppb	220.822 ppb	2,834.638 ppb	1.592 ppb	1.477 ppb	6.976 ppb	21.267 ppb	96.665 %
Concentration per Run 2	2.361 ppb	0.747 ppb	228.245 ppb	2,842.216 ppb	1.568 ppb	1.451 ppb	6.690 ppb	21.585 ppb	105.223 %
Concentration per Run 3	2.701 ppb	0.848 ppb	231.939 ppb	2,878.523 ppb	1.615 ppb	1.466 ppb	6.454 ppb	20.559 ppb	104.275 %
Concentration RSD	9.9 %	7.2 %	2.5 %	0.8 %	1.5 %	0.9 %	3.9 %	2.5 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.011 ppb	0.906 ppb	472.442 ppb	13.277 ppb	92.078 %	0.005 ppb	0.056 ppb	98.015 %	0.665 ppb
Concentration per Run 1	3.884 ppb	0.856 ppb	456.826 ppb	13.020 ppb	89.235 %	0.005 ppb	0.041 ppb	93.523 %	0.638 ppb
Concentration per Run 2	4.093 ppb	0.879 ppb	490.930 ppb	13.401 ppb	94.147 %	0.005 ppb	0.065 ppb	101.800 %	0.673 ppb
Concentration per Run 3	4.054 ppb	0.982 ppb	469.568 ppb	13.410 ppb	92.851 %	0.003 ppb	0.063 ppb	98.723 %	0.685 ppb
Concentration RSD	2.8 %	7.4 %	3.6 %	1.7 %	2.8 %	21.9 %	23.5 %	4.3 %	3.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	62.583 ppb	102.034 %	101.455 %	-0.002 ppb	0.328 ppb	85.015 %
Concentration per Run 1	61.414 ppb	96.030 %	94.908 %	-0.012 ppb	0.327 ppb	80.326 %
Concentration per Run 2	64.267 ppb	105.031 %	105.132 %	0.005 ppb	0.328 ppb	86.689 %
Concentration per Run 3	62.068 ppb	105.041 %	104.324 %	0.000 ppb	0.330 ppb	88.031 %
Concentration RSD	2.4 %	5.1 %	5.6 %	377.7 %	0.4 %	4.8 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 36 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: CCV Rack: 0
 Analysis started at: 8/9/2023 6:35:08 PM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.932 %	111.008 %	60.059 ppb	6,163.932 ppb	6,242.682 ppb	62.171 ppb	6,172.201 ppb	6,161.473 ppb	111.032 %
Concentration per Run 1	108.969 %	110.892 %	60.144 ppb	6,037.935 ppb	6,133.749 ppb	59.186 ppb	6,001.091 ppb	5,928.270 ppb	112.310 %
Concentration per Run 2	107.570 %	115.759 %	59.814 ppb	6,190.116 ppb	6,296.862 ppb	67.208 ppb	6,266.016 ppb	6,241.615 ppb	110.831 %
Concentration per Run 3	107.258 %	106.373 %	60.217 ppb	6,263.744 ppb	6,297.435 ppb	60.119 ppb	6,249.496 ppb	6,314.534 ppb	109.956 %
Recovery Percentage 1			100.098 %	102.732 %	104.045 %	103.618 %	102.870 %	102.691 %	
Concentration RSD	0.8 %	4.2 %	0.4 %	1.9 %	1.5 %	7.1 %	2.4 %	3.3 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.082 ppb	61.065 ppb	61.105 ppb	6,043.954 ppb	61.393 ppb	60.275 ppb	59.936 ppb	62.064 ppb	109.608 %
Concentration per Run 1	57.758 ppb	59.767 ppb	59.646 ppb	5,952.119 ppb	60.237 ppb	59.836 ppb	59.052 ppb	60.736 ppb	108.087 %
Concentration per Run 2	57.246 ppb	59.006 ppb	62.056 ppb	5,882.675 ppb	59.812 ppb	57.642 ppb	58.066 ppb	60.522 ppb	116.773 %
Concentration per Run 3	62.243 ppb	64.422 ppb	61.614 ppb	6,297.068 ppb	64.129 ppb	63.347 ppb	62.691 ppb	64.935 ppb	103.964 %
Recovery Percentage 1	98.471 %	101.776 %	101.842 %	100.733 %	102.321 %	100.459 %	99.894 %	103.440 %	
Concentration RSD	4.7 %	4.8 %	2.1 %	3.7 %	3.9 %	4.8 %	4.1 %	4.0 %	6.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.502 ppb	61.193 ppb	60.800 ppb	58.970 ppb	104.267 %	59.766 ppb	59.367 ppb	104.668 %	59.027 ppb
Concentration per Run 1	58.547 ppb	60.149 ppb	59.007 ppb	56.998 ppb	102.454 %	59.083 ppb	58.098 ppb	101.523 %	58.706 ppb
Concentration per Run 2	60.013 ppb	62.404 ppb	62.525 ppb	59.002 ppb	105.792 %	59.384 ppb	59.500 ppb	109.301 %	58.664 ppb
Concentration per Run 3	62.945 ppb	61.025 ppb	60.870 ppb	60.911 ppb	104.555 %	60.832 ppb	60.504 ppb	103.180 %	59.710 ppb
Recovery Percentage 1	100.836 %	101.988 %	101.334 %	98.284 %		99.611 %	98.946 %		98.378 %
Concentration RSD	3.7 %	1.9 %	2.9 %	3.3 %	1.6 %	1.6 %	2.0 %	3.9 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	60.117 ppb	106.553 %	105.820 %	60.147 ppb	58.997 ppb	99.071 %
Concentration per Run 1	58.673 ppb	103.873 %	102.418 %	58.823 ppb	58.673 ppb	95.908 %
Concentration per Run 2	61.203 ppb	108.643 %	109.456 %	59.939 ppb	58.915 ppb	101.596 %
Concentration per Run 3	60.474 ppb	107.142 %	105.585 %	61.679 ppb	59.404 ppb	99.708 %
Recovery Percentage 1	100.194 %			100.245 %	98.329 %	
Concentration RSD	2.2 %	2.3 %	3.3 %	2.4 %	0.6 %	2.9 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 37 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: CCB Rack: 0
 Analysis started at: 8/9/2023 6:39:40 PM Vial: 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	111.323 %	109.270 %	0.001 ppb	4.631 ppb	-1.427 ppb	-0.358 ppb	1.425 ppb	1.254 ppb	110.270 %
Concentration per Run 1	111.609 %	105.678 %	0.003 ppb	4.833 ppb	-1.127 ppb	-0.701 ppb	1.930 ppb	3.593 ppb	110.831 %
Concentration per Run 2	110.660 %	115.064 %	0.006 ppb	5.229 ppb	-1.728 ppb	0.022 ppb	-0.347 ppb	2.158 ppb	108.719 %
Concentration per Run 3	111.700 %	107.068 %	-0.007 ppb	3.831 ppb	-1.427 ppb	-0.394 ppb	2.692 ppb	-1.990 ppb	111.261 %
Recovery Percentage 1			0.129 %	4.631 %	-2.039 %	-3.577 %	1.425 %	1.254 %	
Concentration RSD	0.5 %	4.6 %	1,034.2 %	15.6 %	21.0 %	101.5 %	110.9 %	231.2 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.003 ppb	0.005 ppb	0.095 ppb	8.018 ppb	0.000 ppb	0.024 ppb	0.025 ppb	0.305 ppb	109.976 %
Concentration per Run 1	-0.013 ppb	0.007 ppb	0.067 ppb	9.222 ppb	0.000 ppb	0.024 ppb	0.013 ppb	0.340 ppb	105.805 %
Concentration per Run 2	-0.016 ppb	0.015 ppb	0.133 ppb	7.709 ppb	0.002 ppb	0.022 ppb	0.045 ppb	0.291 ppb	112.175 %
Concentration per Run 3	0.039 ppb	-0.006 ppb	0.084 ppb	7.122 ppb	0.000 ppb	0.025 ppb	0.016 ppb	0.285 ppb	111.947 %
Recovery Percentage 1	0.066 %	0.546 %	9.466 %	16.036 %	0.098 %	1.183 %	2.483 %	6.103 %	
Concentration RSD	943.1 %	197.0 %	35.9 %	13.5 %	238.3 %	5.2 %	70.7 %	9.9 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.005 ppb	0.068 ppb	0.001 ppb	0.133 ppb	106.457 %	0.002 ppb	0.001 ppb	106.734 %	0.068 ppb
Concentration per Run 1	0.008 ppb	0.077 ppb	0.000 ppb	0.142 ppb	104.576 %	0.002 ppb	-0.001 ppb	102.218 %	0.067 ppb
Concentration per Run 2	0.003 ppb	0.117 ppb	0.003 ppb	0.143 ppb	107.305 %	0.003 ppb	0.001 ppb	110.806 %	0.071 ppb
Concentration per Run 3	0.003 ppb	0.009 ppb	0.002 ppb	0.113 ppb	107.490 %	0.002 ppb	0.002 ppb	107.180 %	0.066 ppb
Recovery Percentage 1	0.989 %	1.356 %	0.014 %	6.630 %		0.609 %	0.290 %		1.704 %
Concentration RSD	61.9 %	81.1 %	103.1 %	12.8 %	1.5 %	14.7 %	265.2 %	4.0 %	3.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.019 ppb	106.092 %	105.139 %	0.292 ppb	0.006 ppb	104.613 %
Concentration per Run 1	0.008 ppb	102.542 %	100.774 %	0.295 ppb	0.008 ppb	100.673 %
Concentration per Run 2	0.026 ppb	108.281 %	108.533 %	0.329 ppb	0.005 ppb	105.223 %
Concentration per Run 3	0.023 ppb	107.454 %	106.111 %	0.253 ppb	0.006 ppb	107.942 %
Recovery Percentage 1	3.764 %			29.223 %	0.641 %	
Concentration RSD	50.7 %	2.9 %	3.8 %	13.1 %	26.4 %	3.5 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 38 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1811915-3D10 2008TL Rack: 2
 Analysis started at: 8/9/2023 6:45:09 PM Vial: 40

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.303 %	99.884 %	5.358 ppb	24,879.023 ppb	2,067.884 ppb	233.982 ppb	2,420.908 ppb	9,146.427 ppb	108.543 %
Concentration per Run 1	109.778 %	98.030 %	5.276 ppb	26,942.370 ppb	2,196.099 ppb	243.840 ppb	2,498.789 ppb	9,507.461 ppb	108.310 %
Concentration per Run 2	109.199 %	101.506 %	5.434 ppb	24,116.909 ppb	2,052.077 ppb	239.095 ppb	2,454.433 ppb	9,273.673 ppb	108.495 %
Concentration per Run 3	108.930 %	100.116 %	5.364 ppb	23,577.790 ppb	1,955.476 ppb	219.012 ppb	2,309.501 ppb	8,658.147 ppb	108.823 %
Concentration RSD	0.4 %	1.8 %	1.5 %	7.3 %	5.9 %	5.6 %	4.1 %	4.8 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	52.811 ppb	21.399 ppb	74.843 ppb	371.371 ppb	52.899 ppb	51.752 ppb	27.627 ppb	55.835 ppb	106.048 %
Concentration per Run 1	53.682 ppb	21.373 ppb	76.932 ppb	373.412 ppb	51.942 ppb	50.569 ppb	26.240 ppb	54.696 ppb	110.761 %
Concentration per Run 2	52.025 ppb	21.307 ppb	75.055 ppb	375.744 ppb	53.688 ppb	52.419 ppb	28.453 ppb	57.189 ppb	105.333 %
Concentration per Run 3	52.724 ppb	21.516 ppb	72.542 ppb	364.956 ppb	53.066 ppb	52.267 ppb	28.188 ppb	55.619 ppb	102.049 %
Concentration RSD	1.6 %	0.5 %	2.9 %	1.5 %	1.7 %	2.0 %	4.4 %	2.3 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.911 ppb	11.552 ppb	142.972 ppb	99.307 ppb	101.294 %	5.221 ppb	5.641 ppb	104.331 %	49.778 ppb
Concentration per Run 1	12.694 ppb	11.354 ppb	146.867 ppb	97.011 ppb	102.659 %	5.077 ppb	5.402 ppb	109.133 %	48.325 ppb
Concentration per Run 2	13.262 ppb	11.900 ppb	140.995 ppb	99.542 ppb	100.282 %	5.266 ppb	5.726 ppb	101.963 %	50.596 ppb
Concentration per Run 3	12.778 ppb	11.401 ppb	141.054 ppb	101.367 ppb	100.941 %	5.320 ppb	5.796 ppb	101.899 %	50.412 ppb
Concentration RSD	2.4 %	2.6 %	2.4 %	2.2 %	1.2 %	2.4 %	3.7 %	4.0 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	213.899 ppb	106.616 %	106.074 %	12.291 ppb	53.417 ppb	98.546 %
Concentration per Run 1	213.290 ppb	106.887 %	107.565 %	11.918 ppb	52.105 ppb	98.528 %
Concentration per Run 2	212.779 ppb	104.955 %	104.356 %	12.588 ppb	54.425 ppb	96.628 %
Concentration per Run 3	215.628 ppb	108.006 %	106.301 %	12.368 ppb	53.720 ppb	100.482 %
Concentration RSD	0.7 %	1.4 %	1.5 %	2.8 %	2.2 %	2.0 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 39 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1811915-5D10 2008TL Rack: 2
 Analysis started at: 8/9/2023 6:49:37 PM Vial: 43

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.856 %	109.154 %	5.182 ppb	22,673.703 ppb	1,893.689 ppb	211.854 ppb	2,252.221 ppb	8,627.873 ppb	109.556 %
Concentration per Run 1	109.269 %	111.240 %	5.412 ppb	23,030.607 ppb	1,923.647 ppb	219.504 ppb	2,295.648 ppb	8,891.510 ppb	110.003 %
Concentration per Run 2	110.963 %	107.068 %	4.954 ppb	22,677.345 ppb	1,900.347 ppb	207.526 ppb	2,200.298 ppb	8,325.983 ppb	109.941 %
Concentration per Run 3	109.337 %	109.154 %	5.181 ppb	22,313.158 ppb	1,857.073 ppb	208.533 ppb	2,260.716 ppb	8,666.125 ppb	108.725 %
Concentration RSD	0.9 %	1.9 %	4.4 %	1.6 %	1.8 %	3.1 %	2.1 %	3.3 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.909 ppb	20.426 ppb	71.140 ppb	327.776 ppb	49.999 ppb	48.796 ppb	25.695 ppb	52.804 ppb	109.309 %
Concentration per Run 1	51.250 ppb	20.527 ppb	73.697 ppb	317.252 ppb	49.821 ppb	48.034 ppb	25.948 ppb	53.714 ppb	108.900 %
Concentration per Run 2	46.757 ppb	19.780 ppb	67.619 ppb	328.184 ppb	49.172 ppb	48.122 ppb	24.987 ppb	51.308 ppb	111.533 %
Concentration per Run 3	51.720 ppb	20.971 ppb	72.105 ppb	337.893 ppb	51.003 ppb	50.232 ppb	26.152 ppb	53.390 ppb	107.493 %
Concentration RSD	5.5 %	2.9 %	4.4 %	3.2 %	1.9 %	2.6 %	2.4 %	2.5 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.436 ppb	12.558 ppb	136.586 ppb	92.818 ppb	101.377 %	4.958 ppb	5.295 ppb	105.917 %	47.998 ppb
Concentration per Run 1	12.768 ppb	12.433 ppb	141.717 ppb	91.611 ppb	101.792 %	4.846 ppb	5.219 ppb	110.518 %	46.830 ppb
Concentration per Run 2	12.062 ppb	12.682 ppb	131.976 ppb	92.281 ppb	100.842 %	5.000 ppb	5.372 ppb	103.397 %	48.075 ppb
Concentration per Run 3	12.479 ppb	12.560 ppb	136.066 ppb	94.563 ppb	101.496 %	5.029 ppb	5.294 ppb	103.837 %	49.088 ppb
Concentration RSD	2.9 %	1.0 %	3.6 %	1.7 %	0.5 %	2.0 %	1.4 %	3.8 %	2.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	204.260 ppb	107.821 %	107.459 %	11.664 ppb	50.838 ppb	100.416 %
Concentration per Run 1	203.943 ppb	107.798 %	108.688 %	11.452 ppb	50.017 ppb	99.197 %
Concentration per Run 2	202.702 ppb	105.695 %	104.549 %	11.808 ppb	51.128 ppb	100.102 %
Concentration per Run 3	206.134 ppb	109.970 %	109.140 %	11.733 ppb	51.370 ppb	101.949 %
Concentration RSD	0.9 %	2.0 %	2.4 %	1.6 %	1.4 %	1.4 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 40 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1811915-6 2008TL Rack: 2
 Analysis started at: 8/9/2023 6:54:07 PM Vial: 44

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.634 %	93.163 %	0.014 ppb	269,340.344 ppb	10,722.795 ppb	44.052 ppb	14,725.816 ppb	86,463.712 ppb	113.470 %
Concentration per Run 1	108.507 %	99.768 %	0.010 ppb	250,797.556 ppb	9,949.702 ppb	41.444 ppb	14,419.788 ppb	83,918.347 ppb	114.390 %
Concentration per Run 2	107.066 %	95.249 %	0.018 ppb	265,387.999 ppb	10,602.766 ppb	43.521 ppb	14,343.650 ppb	84,986.816 ppb	112.035 %
Concentration per Run 3	107.328 %	84.473 %	0.013 ppb	291,835.477 ppb	11,615.918 ppb	47.190 ppb	15,414.010 ppb	90,485.974 ppb	113.986 %
Concentration RSD	0.7 %	8.4 %	31.6 %	7.7 %	7.8 %	6.6 %	4.1 %	4.1 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.033 ppb	0.823 ppb	225.172 ppb	2,524.026 ppb	1.525 ppb	1.385 ppb	6.966 ppb	22.521 ppb	98.947 %
Concentration per Run 1	1.773 ppb	0.782 ppb	217.569 ppb	2,395.768 ppb	1.402 ppb	1.305 ppb	6.712 ppb	22.386 ppb	97.742 %
Concentration per Run 2	2.043 ppb	0.849 ppb	228.750 ppb	2,579.144 ppb	1.526 ppb	1.322 ppb	6.855 ppb	22.361 ppb	97.458 %
Concentration per Run 3	2.283 ppb	0.837 ppb	229.198 ppb	2,597.165 ppb	1.646 ppb	1.528 ppb	7.332 ppb	22.814 ppb	101.642 %
Concentration RSD	12.5 %	4.4 %	2.9 %	4.4 %	8.0 %	9.0 %	4.7 %	1.1 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.858 ppb	0.686 ppb	476.471 ppb	13.735 ppb	90.483 %	0.003 ppb	0.061 ppb	97.288 %	0.938 ppb
Concentration per Run 1	3.820 ppb	0.691 ppb	484.225 ppb	13.561 ppb	89.558 %	0.004 ppb	0.044 ppb	97.063 %	0.918 ppb
Concentration per Run 2	3.822 ppb	0.688 ppb	477.941 ppb	14.009 ppb	90.044 %	0.004 ppb	0.069 ppb	96.558 %	0.953 ppb
Concentration per Run 3	3.933 ppb	0.679 ppb	467.246 ppb	13.636 ppb	91.847 %	0.002 ppb	0.071 ppb	98.243 %	0.943 ppb
Concentration RSD	1.7 %	0.9 %	1.8 %	1.7 %	1.3 %	40.3 %	25.0 %	0.9 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	62.272 ppb	101.523 %	101.764 %	0.057 ppb	0.295 ppb	86.503 %
Concentration per Run 1	62.086 ppb	98.697 %	98.999 %	0.046 ppb	0.289 ppb	83.142 %
Concentration per Run 2	62.276 ppb	101.607 %	102.219 %	0.069 ppb	0.305 ppb	85.882 %
Concentration per Run 3	62.454 ppb	104.264 %	104.075 %	0.056 ppb	0.291 ppb	90.484 %
Concentration RSD	0.3 %	2.7 %	2.5 %	20.0 %	2.8 %	4.3 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 41 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2345014-02 2008TL Rack 2
 Analysis started at: 8/9/2023 6:58:36 PM Vial 42

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.585 %	92.468 %	0.017 ppb	269,200.395 ppb	10,735.928 ppb	47.128 ppb	14,552.268 ppb	84,628.980 ppb	113.288 %
Concentration per Run 1	108.905 %	88.297 %	0.019 ppb	266,012.151 ppb	10,601.992 ppb	46.270 ppb	14,023.383 ppb	81,399.120 ppb	113.863 %
Concentration per Run 2	107.988 %	99.768 %	0.018 ppb	260,587.511 ppb	10,400.786 ppb	44.220 ppb	14,710.705 ppb	85,422.022 ppb	114.914 %
Concentration per Run 3	105.861 %	89.339 %	0.014 ppb	281,001.524 ppb	11,205.006 ppb	50.894 ppb	14,922.716 ppb	87,065.797 ppb	111.087 %
Concentration RSD	1.5 %	6.9 %	17.6 %	3.9 %	3.9 %	7.3 %	3.2 %	3.4 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.207 ppb	0.914 ppb	224.332 ppb	2,479.995 ppb	1.492 ppb	1.377 ppb	6.504 ppb	22.045 ppb	101.017 %
Concentration per Run 1	1.950 ppb	0.916 ppb	219.631 ppb	2,444.596 ppb	1.490 ppb	1.424 ppb	6.575 ppb	21.942 ppb	96.897 %
Concentration per Run 2	2.104 ppb	0.892 ppb	219.590 ppb	2,409.639 ppb	1.410 ppb	1.296 ppb	6.057 ppb	21.463 ppb	107.033 %
Concentration per Run 3	2.567 ppb	0.935 ppb	233.777 ppb	2,585.750 ppb	1.577 ppb	1.410 ppb	6.881 ppb	22.730 ppb	99.123 %
Concentration RSD	14.5 %	2.3 %	3.6 %	3.8 %	5.6 %	5.1 %	6.4 %	2.9 %	5.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.948 ppb	0.969 ppb	461.821 ppb	13.019 ppb	91.876 %	0.006 ppb	0.051 ppb	97.374 %	0.721 ppb
Concentration per Run 1	3.993 ppb	0.908 ppb	444.632 ppb	12.579 ppb	89.399 %	0.006 ppb	0.066 ppb	93.059 %	0.664 ppb
Concentration per Run 2	3.971 ppb	1.067 ppb	477.662 ppb	12.981 ppb	93.637 %	0.006 ppb	0.050 ppb	102.408 %	0.761 ppb
Concentration per Run 3	3.880 ppb	0.932 ppb	463.169 ppb	13.497 ppb	92.593 %	0.007 ppb	0.036 ppb	96.656 %	0.737 ppb
Concentration RSD	1.5 %	8.8 %	3.6 %	3.5 %	2.4 %	8.1 %	29.2 %	4.8 %	7.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	60.276 ppb	102.593 %	102.122 %	0.017 ppb	0.297 ppb	86.314 %
Concentration per Run 1	58.441 ppb	97.663 %	96.093 %	0.007 ppb	0.287 ppb	82.926 %
Concentration per Run 2	62.603 ppb	105.526 %	106.571 %	0.022 ppb	0.305 ppb	87.372 %
Concentration per Run 3	59.784 ppb	104.589 %	103.703 %	0.023 ppb	0.298 ppb	88.646 %
Concentration RSD	3.5 %	4.2 %	5.3 %	53.4 %	3.0 %	3.5 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 42 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2344731-01 2008TL Rack 2
 Analysis started at: 8/9/2023 7:03:06 PM Vial 45

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	122.967 %	119.351 %	-0.004 ppb	258,457.480 ppb	24,087.987 ppb	1,027.111 ppb	275,595.401 ppb	40,842.401 ppb	128.434 %
Concentration per Run 1	123.744 %	110.197 %	-0.010 ppb	263,872.757 ppb	24,570.003 ppb	1,029.132 ppb	279,083.789 ppb	41,311.834 ppb	129.296 %
Concentration per Run 2	124.485 %	115.411 %	-0.002 ppb	266,429.848 ppb	24,705.352 ppb	1,064.557 ppb	282,402.484 ppb	41,636.926 ppb	130.088 %
Concentration per Run 3	120.672 %	132.445 %	0.000 ppb	245,069.833 ppb	22,988.604 ppb	987.642 ppb	265,299.930 ppb	39,578.441 ppb	125.917 %
Concentration RSD	1.6 %	9.7 %	131.1 %	4.5 %	4.0 %	3.7 %	3.3 %	2.7 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.543 ppb	0.502 ppb	61.211 ppb	43.344 ppb	0.670 ppb	1.985 ppb	2.072 ppb	3.675 ppb	107.488 %
Concentration per Run 1	0.581 ppb	0.533 ppb	61.942 ppb	46.443 ppb	0.646 ppb	2.006 ppb	1.938 ppb	3.727 ppb	103.311 %
Concentration per Run 2	0.525 ppb	0.508 ppb	60.994 ppb	43.062 ppb	0.706 ppb	1.979 ppb	2.202 ppb	3.571 ppb	109.412 %
Concentration per Run 3	0.524 ppb	0.467 ppb	60.696 ppb	40.526 ppb	0.659 ppb	1.970 ppb	2.075 ppb	3.726 ppb	109.742 %
Concentration RSD	6.0 %	6.7 %	1.1 %	6.8 %	4.7 %	0.9 %	6.4 %	2.4 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.837 ppb	0.021 ppb	183.853 ppb	0.164 ppb	95.813 %	0.002 ppb	0.024 ppb	99.960 %	0.143 ppb
Concentration per Run 1	1.763 ppb	0.040 ppb	181.000 ppb	0.169 ppb	92.377 %	0.002 ppb	0.013 ppb	94.558 %	0.128 ppb
Concentration per Run 2	1.893 ppb	0.012 ppb	183.572 ppb	0.164 ppb	96.693 %	0.002 ppb	0.034 ppb	101.407 %	0.153 ppb
Concentration per Run 3	1.856 ppb	0.010 ppb	186.988 ppb	0.158 ppb	98.370 %	0.004 ppb	0.025 ppb	103.914 %	0.149 ppb
Concentration RSD	3.6 %	81.3 %	1.6 %	3.4 %	3.2 %	43.3 %	43.9 %	4.8 %	9.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.050 ppb	107.330 %	106.998 %	-0.015 ppb	0.063 ppb	86.711 %
Concentration per Run 1	1.146 ppb	100.696 %	100.978 %	-0.025 ppb	0.065 ppb	80.749 %
Concentration per Run 2	1.008 ppb	107.820 %	106.944 %	-0.011 ppb	0.062 ppb	87.615 %
Concentration per Run 3	0.997 ppb	113.475 %	113.071 %	-0.009 ppb	0.063 ppb	91.770 %
Concentration RSD	7.9 %	6.0 %	5.7 %	60.8 %	2.6 %	6.4 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 43 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2344736-01 2008TL Rack 2
 Analysis started at: 8/9/2023 7:07:35 PM Vial 46

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	121.393 %	117.150 %	-0.005 ppb	115,941.853 ppb	9,755.419 ppb	36.022 ppb	18,494.761 ppb	78,114.525 ppb	123.791 %
Concentration per Run 1	123.118 %	110.892 %	-0.006 ppb	118,142.312 ppb	9,866.933 ppb	36.710 ppb	18,626.911 ppb	76,947.235 ppb	123.826 %
Concentration per Run 2	120.805 %	127.578 %	-0.005 ppb	109,892.206 ppb	9,298.731 ppb	32.167 ppb	17,669.938 ppb	75,266.546 ppb	124.403 %
Concentration per Run 3	120.256 %	112.978 %	-0.003 ppb	119,791.042 ppb	10,100.595 ppb	39.191 ppb	19,187.433 ppb	82,129.792 ppb	123.145 %
Concentration RSD	1.3 %	7.8 %	34.4 %	4.6 %	4.2 %	9.9 %	4.1 %	4.6 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.191 ppb	1.711 ppb	51.975 ppb	240.253 ppb	0.852 ppb	3.328 ppb	4.363 ppb	7.044 ppb	113.277 %
Concentration per Run 1	1.259 ppb	1.739 ppb	51.741 ppb	236.886 ppb	0.778 ppb	3.293 ppb	4.319 ppb	6.942 ppb	111.262 %
Concentration per Run 2	1.058 ppb	1.565 ppb	50.341 ppb	231.003 ppb	0.932 ppb	3.378 ppb	4.347 ppb	6.936 ppb	115.782 %
Concentration per Run 3	1.254 ppb	1.829 ppb	53.843 ppb	252.870 ppb	0.847 ppb	3.313 ppb	4.421 ppb	7.254 ppb	112.788 %
Concentration RSD	9.6 %	7.8 %	3.4 %	4.7 %	9.0 %	1.3 %	1.2 %	2.6 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.431 ppb	0.258 ppb	502.990 ppb	0.626 ppb	101.608 %	0.032 ppb	0.009 ppb	103.034 %	0.345 ppb
Concentration per Run 1	2.396 ppb	0.222 ppb	501.075 ppb	0.605 ppb	100.724 %	0.036 ppb	0.006 ppb	103.151 %	0.329 ppb
Concentration per Run 2	2.573 ppb	0.289 ppb	508.202 ppb	0.664 ppb	104.199 %	0.031 ppb	0.008 ppb	105.148 %	0.363 ppb
Concentration per Run 3	2.324 ppb	0.264 ppb	499.693 ppb	0.609 ppb	99.901 %	0.030 ppb	0.012 ppb	100.804 %	0.342 ppb
Concentration RSD	5.3 %	13.0 %	0.9 %	5.3 %	2.2 %	10.8 %	31.9 %	2.1 %	5.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	14.050 ppb	109.091 %	106.575 %	-0.021 ppb	0.209 ppb	91.973 %
Concentration per Run 1	13.996 ppb	106.858 %	104.084 %	-0.036 ppb	0.206 ppb	88.616 %
Concentration per Run 2	14.121 ppb	109.961 %	107.862 %	-0.013 ppb	0.209 ppb	92.929 %
Concentration per Run 3	14.033 ppb	110.453 %	107.780 %	-0.015 ppb	0.211 ppb	94.376 %
Concentration RSD	0.5 %	1.8 %	2.0 %	59.8 %	1.4 %	3.3 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 44 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2344988-01 2008TL Rack 2
 Analysis started at: 8/9/2023 7:12:05 PM Vial 47

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	121.893 %	117.729 %	0.013 ppb	382,989.652 ppb	13,496.572 ppb	62.913 ppb	36,879.951 ppb	95,022.761 ppb	123.411 %
Concentration per Run 1	123.335 %	118.540 %	0.015 ppb	366,933.875 ppb	12,791.256 ppb	62.763 ppb	36,332.811 ppb	93,285.272 ppb	125.044 %
Concentration per Run 2	121.117 %	117.150 %	0.014 ppb	387,113.855 ppb	13,706.366 ppb	62.038 ppb	37,023.096 ppb	96,100.766 ppb	122.326 %
Concentration per Run 3	121.226 %	117.497 %	0.009 ppb	394,921.226 ppb	13,992.095 ppb	63.937 ppb	37,283.946 ppb	95,682.244 ppb	122.863 %
Concentration RSD	1.0 %	0.6 %	28.7 %	3.8 %	4.6 %	1.5 %	1.3 %	1.6 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	5.134 ppb	0.867 ppb	304.685 ppb	452.915 ppb	0.905 ppb	1.547 ppb	2.256 ppb	2.363 ppb	102.075 %
Concentration per Run 1	4.621 ppb	0.816 ppb	301.265 ppb	425.527 ppb	0.878 ppb	1.509 ppb	2.002 ppb	2.331 ppb	102.287 %
Concentration per Run 2	5.595 ppb	0.897 ppb	307.512 ppb	456.787 ppb	0.862 ppb	1.586 ppb	2.316 ppb	2.421 ppb	103.739 %
Concentration per Run 3	5.185 ppb	0.887 ppb	305.277 ppb	476.432 ppb	0.974 ppb	1.547 ppb	2.449 ppb	2.337 ppb	100.198 %
Concentration RSD	9.5 %	5.1 %	1.0 %	5.7 %	6.7 %	2.5 %	10.2 %	2.1 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	8.328 ppb	1.306 ppb	913.319 ppb	47.218 ppb	92.787 %	0.010 ppb	0.028 ppb	96.813 %	0.808 ppb
Concentration per Run 1	8.300 ppb	1.486 ppb	905.330 ppb	45.876 ppb	90.565 %	0.009 ppb	0.026 ppb	94.773 %	0.751 ppb
Concentration per Run 2	8.543 ppb	1.326 ppb	929.553 ppb	47.916 ppb	93.458 %	0.010 ppb	0.029 ppb	97.960 %	0.859 ppb
Concentration per Run 3	8.141 ppb	1.106 ppb	905.074 ppb	47.863 ppb	94.338 %	0.011 ppb	0.028 ppb	97.708 %	0.813 ppb
Concentration RSD	2.4 %	14.6 %	1.5 %	2.5 %	2.1 %	10.4 %	6.7 %	1.8 %	6.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	129.982 ppb	102.571 %	101.447 %	-0.015 ppb	1.167 ppb	83.608 %
Concentration per Run 1	128.220 ppb	98.161 %	97.349 %	-0.024 ppb	1.147 ppb	79.161 %
Concentration per Run 2	129.994 ppb	104.181 %	101.902 %	-0.010 ppb	1.168 ppb	84.887 %
Concentration per Run 3	131.731 ppb	105.370 %	105.090 %	-0.010 ppb	1.185 ppb	86.777 %
Concentration RSD	1.4 %	3.8 %	3.8 %	55.6 %	1.6 %	4.7 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 45 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2344988-02 2008TL Rack 2
 Analysis started at: 8/9/2023 7:16:35 PM Vial 48

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	122.181 %	118.193 %	0.012 ppb	336,896.666 ppb	14,792.680 ppb	464.874 ppb	36,868.063 ppb	92,450.468 ppb	121.296 %
Concentration per Run 1	122.756 %	123.755 %	0.014 ppb	327,613.935 ppb	14,496.730 ppb	459.253 ppb	36,658.418 ppb	91,692.343 ppb	122.382 %
Concentration per Run 2	121.776 %	121.669 %	0.016 ppb	333,446.913 ppb	14,673.064 ppb	464.518 ppb	36,382.208 ppb	90,933.463 ppb	119.472 %
Concentration per Run 3	122.010 %	109.154 %	0.007 ppb	349,629.150 ppb	15,208.245 ppb	470.850 ppb	37,563.565 ppb	94,725.599 ppb	122.033 %
Concentration RSD	0.4 %	6.7 %	37.9 %	3.4 %	2.5 %	1.2 %	1.7 %	2.2 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	12.048 ppb	2.058 ppb	199.327 ppb	891.669 ppb	2.367 ppb	3.322 ppb	8.813 ppb	9.344 ppb	105.201 %
Concentration per Run 1	11.681 ppb	2.006 ppb	198.674 ppb	873.871 ppb	2.290 ppb	2.921 ppb	8.521 ppb	9.206 ppb	106.645 %
Concentration per Run 2	12.548 ppb	2.007 ppb	201.164 ppb	894.608 ppb	2.464 ppb	3.683 ppb	8.549 ppb	9.389 ppb	105.383 %
Concentration per Run 3	11.917 ppb	2.159 ppb	198.145 ppb	906.528 ppb	2.347 ppb	3.363 ppb	9.367 ppb	9.436 ppb	103.575 %
Concentration RSD	3.7 %	4.3 %	0.8 %	1.9 %	3.8 %	11.5 %	5.5 %	1.3 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	9.810 ppb	2.710 ppb	1,017.080 ppb	60.201 ppb	93.919 %	0.042 ppb	0.048 ppb	98.519 %	1.887 ppb
Concentration per Run 1	9.859 ppb	2.751 ppb	1,032.441 ppb	58.288 ppb	93.237 %	0.046 ppb	0.042 ppb	100.326 %	1.835 ppb
Concentration per Run 2	9.985 ppb	2.708 ppb	1,014.595 ppb	60.826 ppb	93.386 %	0.043 ppb	0.047 ppb	97.554 %	1.905 ppb
Concentration per Run 3	9.585 ppb	2.672 ppb	1,004.204 ppb	61.489 ppb	95.136 %	0.037 ppb	0.056 ppb	97.678 %	1.921 ppb
Concentration RSD	2.1 %	1.5 %	1.4 %	2.8 %	1.1 %	10.2 %	14.5 %	1.6 %	2.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	158.362 ppb	101.374 %	99.650 %	-0.001 ppb	2.407 ppb	82.171 %
Concentration per Run 1	158.882 ppb	99.927 %	99.062 %	-0.008 ppb	2.327 ppb	80.225 %
Concentration per Run 2	160.174 ppb	102.672 %	100.872 %	0.001 ppb	2.436 ppb	83.400 %
Concentration per Run 3	156.030 ppb	101.522 %	99.016 %	0.005 ppb	2.459 ppb	82.889 %
Concentration RSD	1.3 %	1.4 %	1.1 %	1,151.0 %	2.9 %	2.1 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 46 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2342659-01D20 2008TL Rack 2
 Analysis started at: 8/9/2023 7:21:06 PM Vial 49

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	129.091 %	121.205 %	0.002 ppb	706,127.261 ppb	17,713.381 ppb	24.949 ppb	95,893.124 ppb	12,742.567 ppb	123.453 %
Concentration per Run 1	131.318 %	128.969 %	0.003 ppb	681,475.104 ppb	17,128.386 ppb	25.795 ppb	96,098.425 ppb	12,678.199 ppb	123.929 %
Concentration per Run 2	129.922 %	126.536 %	0.006 ppb	683,886.463 ppb	17,219.613 ppb	23.377 ppb	93,035.489 ppb	12,125.246 ppb	124.618 %
Concentration per Run 3	126.033 %	108.111 %	-0.003 ppb	753,020.215 ppb	18,792.144 ppb	25.674 ppb	98,545.457 ppb	13,424.255 ppb	121.814 %
Concentration RSD	2.1 %	9.4 %	277.7 %	5.8 %	5.3 %	5.5 %	2.9 %	5.1 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	18.623 ppb	24.933 ppb	59.338 ppb	214.990 ppb	2.450 ppb	14.775 ppb	1.401 ppb	5.160 ppb	102.260 %
Concentration per Run 1	17.714 ppb	23.773 ppb	59.119 ppb	204.769 ppb	2.344 ppb	14.806 ppb	1.288 ppb	4.971 ppb	102.673 %
Concentration per Run 2	17.919 ppb	24.091 ppb	57.109 ppb	210.863 ppb	2.435 ppb	14.343 ppb	1.467 ppb	5.046 ppb	104.774 %
Concentration per Run 3	20.236 ppb	26.933 ppb	61.788 ppb	229.339 ppb	2.570 ppb	15.176 ppb	1.448 ppb	5.462 ppb	99.334 %
Concentration RSD	7.5 %	7.0 %	4.0 %	6.0 %	4.6 %	2.8 %	7.0 %	5.1 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	157.746 ppb	0.656 ppb	152.059 ppb	0.861 ppb	90.694 %	0.001 ppb	0.003 ppb	92.219 %	1.136 ppb
Concentration per Run 1	156.799 ppb	0.444 ppb	154.727 ppb	0.851 ppb	89.865 %	0.001 ppb	0.001 ppb	94.634 %	1.125 ppb
Concentration per Run 2	154.238 ppb	0.867 ppb	149.431 ppb	0.832 ppb	91.405 %	0.000 ppb	0.006 ppb	92.636 %	1.157 ppb
Concentration per Run 3	162.201 ppb	0.655 ppb	152.018 ppb	0.900 ppb	90.811 %	0.002 ppb	0.003 ppb	89.387 %	1.125 ppb
Concentration RSD	2.6 %	32.3 %	1.7 %	4.1 %	0.9 %	113.1 %	75.2 %	2.9 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	26.759 ppb	100.955 %	100.535 %	-0.037 ppb	0.321 ppb	77.323 %
Concentration per Run 1	26.740 ppb	100.774 %	101.040 %	-0.043 ppb	0.322 ppb	75.440 %
Concentration per Run 2	27.118 ppb	102.039 %	101.978 %	-0.036 ppb	0.314 ppb	78.975 %
Concentration per Run 3	26.420 ppb	100.052 %	98.588 %	-0.033 ppb	0.326 ppb	77.555 %
Concentration RSD	1.3 %	1.0 %	1.7 %	14.3 %	2.0 %	2.3 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 47 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: I2343306-01D5 2008TL Rack: 2
 Analysis started at: 8/9/2023 7:25:35 PM Vial: 50

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	122.983 %	122.248 %	0.026 ppb	83,202.909 ppb	2,939.771 ppb	15.787 ppb	4,095.747 ppb	9,645.211 ppb	123.171 %
Concentration per Run 1	121.808 %	127.926 %	0.026 ppb	83,023.833 ppb	2,938.644 ppb	16.582 ppb	4,268.799 ppb	9,819.591 ppb	122.302 %
Concentration per Run 2	123.754 %	118.540 %	0.021 ppb	84,041.895 ppb	2,939.559 ppb	15.054 ppb	4,071.231 ppb	9,606.588 ppb	123.584 %
Concentration per Run 3	123.388 %	120.278 %	0.030 ppb	82,543.000 ppb	2,941.108 ppb	15.727 ppb	3,947.212 ppb	9,509.455 ppb	123.627 %
Concentration RSD	0.8 %	4.1 %	17.1 %	0.9 %	0.0 %	4.9 %	4.0 %	1.6 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.110 ppb	0.187 ppb	57.631 ppb	177.772 ppb	0.088 ppb	20.954 ppb	3.373 ppb	1.226 ppb	114.076 %
Concentration per Run 1	0.156 ppb	0.181 ppb	58.105 ppb	174.035 ppb	0.095 ppb	19.707 ppb	3.313 ppb	1.234 ppb	118.008 %
Concentration per Run 2	0.071 ppb	0.226 ppb	56.829 ppb	175.612 ppb	0.101 ppb	21.409 ppb	3.299 ppb	1.221 ppb	114.004 %
Concentration per Run 3	0.103 ppb	0.153 ppb	57.959 ppb	183.669 ppb	0.070 ppb	21.746 ppb	3.506 ppb	1.224 ppb	110.216 %
Concentration RSD	38.8 %	19.6 %	1.2 %	2.9 %	18.8 %	5.2 %	3.4 %	0.5 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.192 ppb	0.051 ppb	81.868 ppb	2.451 ppb	102.858 %	0.001 ppb	0.002 ppb	104.288 %	0.054 ppb
Concentration per Run 1	1.133 ppb	0.050 ppb	82.195 ppb	2.323 ppb	104.554 %	0.000 ppb	0.005 ppb	109.397 %	0.050 ppb
Concentration per Run 2	1.232 ppb	0.075 ppb	80.234 ppb	2.586 ppb	103.028 %	0.001 ppb	0.002 ppb	104.765 %	0.055 ppb
Concentration per Run 3	1.213 ppb	0.028 ppb	83.174 ppb	2.443 ppb	100.992 %	0.001 ppb	-0.001 ppb	98.701 %	0.058 ppb
Concentration RSD	4.4 %	46.3 %	1.8 %	5.4 %	1.7 %	134.2 %	153.8 %	5.1 %	7.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.311 ppb	106.104 %	104.060 %	-0.010 ppb	0.912 ppb	92.275 %
Concentration per Run 1	1.184 ppb	106.285 %	105.388 %	-0.016 ppb	0.895 ppb	91.410 %
Concentration per Run 2	1.331 ppb	108.055 %	105.844 %	-0.009 ppb	0.915 ppb	93.365 %
Concentration per Run 3	1.419 ppb	103.972 %	100.947 %	-0.004 ppb	0.925 ppb	92.049 %
Concentration RSD	9.0 %	1.9 %	2.6 %	60.1 %	1.7 %	1.1 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 48 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: CCV Rack: 0
 Analysis started at: 8/9/2023 7:30:05 PM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	121.176 %	126.767 %	58.467 ppb	5,885.086 ppb	6,565.917 ppb	65.608 ppb	6,332.683 ppb	6,209.739 ppb	123.356 %
Concentration per Run 1	122.105 %	128.274 %	57.740 ppb	5,961.474 ppb	6,605.709 ppb	66.971 ppb	6,446.907 ppb	6,277.870 ppb	122.838 %
Concentration per Run 2	120.619 %	122.712 %	59.165 ppb	5,903.309 ppb	6,577.604 ppb	63.133 ppb	6,315.518 ppb	6,302.071 ppb	122.253 %
Concentration per Run 3	120.804 %	129.317 %	58.498 ppb	5,790.475 ppb	6,514.439 ppb	66.719 ppb	6,235.623 ppb	6,049.274 ppb	124.979 %
Recovery Percentage 1			97.446 %	98.085 %	109.432 %	109.346 %	105.545 %	103.496 %	
Concentration RSD	0.7 %	2.8 %	1.2 %	1.5 %	0.7 %	3.3 %	1.7 %	2.2 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.499 ppb	61.795 ppb	62.577 ppb	5,891.073 ppb	59.383 ppb	58.817 ppb	59.762 ppb	61.895 ppb	115.368 %
Concentration per Run 1	58.013 ppb	60.801 ppb	63.965 ppb	5,893.336 ppb	58.113 ppb	57.459 ppb	57.708 ppb	61.052 ppb	117.916 %
Concentration per Run 2	61.431 ppb	63.553 ppb	61.965 ppb	5,944.380 ppb	60.827 ppb	60.366 ppb	61.937 ppb	62.810 ppb	113.186 %
Concentration per Run 3	59.054 ppb	61.029 ppb	61.800 ppb	5,835.502 ppb	59.209 ppb	58.625 ppb	59.641 ppb	61.823 ppb	115.001 %
Recovery Percentage 1	99.166 %	102.991 %	104.295 %	98.185 %	98.971 %	98.028 %	99.604 %	103.158 %	
Concentration RSD	2.9 %	2.5 %	1.9 %	0.9 %	2.3 %	2.5 %	3.5 %	1.4 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.246 ppb	60.493 ppb	59.691 ppb	58.461 ppb	108.361 %	59.673 ppb	59.291 ppb	109.107 %	58.671 ppb
Concentration per Run 1	59.750 ppb	60.826 ppb	61.307 ppb	56.845 ppb	109.335 %	57.719 ppb	57.353 ppb	113.048 %	57.037 ppb
Concentration per Run 2	61.037 ppb	60.664 ppb	59.145 ppb	59.128 ppb	106.895 %	60.521 ppb	60.116 ppb	105.769 %	59.543 ppb
Concentration per Run 3	59.951 ppb	59.988 ppb	58.619 ppb	59.410 ppb	108.854 %	60.778 ppb	60.403 ppb	108.504 %	59.433 ppb
Recovery Percentage 1	100.410 %	100.821 %	99.484 %	97.435 %		99.454 %	98.818 %		97.785 %
Concentration RSD	1.1 %	0.7 %	2.4 %	2.4 %	1.2 %	2.8 %	2.8 %	3.4 %	2.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.325 ppb	110.367 %	108.354 %	58.956 ppb	58.307 ppb	103.239 %
Concentration per Run 1	58.991 ppb	110.037 %	108.120 %	55.954 ppb	57.103 ppb	101.974 %
Concentration per Run 2	59.229 ppb	110.199 %	108.391 %	60.396 ppb	59.323 ppb	100.898 %
Concentration per Run 3	59.757 ppb	110.865 %	108.552 %	60.518 ppb	58.494 ppb	106.844 %
Recovery Percentage 1	98.876 %			98.260 %	97.178 %	
Concentration RSD	0.7 %	0.4 %	0.2 %	4.4 %	1.9 %	3.1 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 49 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: CCB Rack: 0
 Analysis started at: 8/9/2023 7:34:37 PM Vial: 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	124.490 %	116.454 %	-0.003 ppb	6.933 ppb	-1.443 ppb	-0.360 ppb	2.071 ppb	4.268 ppb	119.547 %
Concentration per Run 1	125.029 %	123.755 %	-0.001 ppb	6.551 ppb	-0.750 ppb	-0.294 ppb	5.395 ppb	6.219 ppb	120.466 %
Concentration per Run 2	123.909 %	107.764 %	-0.002 ppb	8.730 ppb	-2.069 ppb	-0.290 ppb	0.612 ppb	1.066 ppb	117.634 %
Concentration per Run 3	124.533 %	117.845 %	-0.006 ppb	5.517 ppb	-1.511 ppb	-0.497 ppb	0.206 ppb	5.519 ppb	120.541 %
Recovery Percentage 1			-0.574 %	6.933 %	-2.062 %	-3.599 %	2.071 %	4.268 %	
Concentration RSD	0.5 %	6.9 %	103.1 %	23.7 %	45.9 %	32.9 %	139.4 %	65.5 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.006 ppb	0.010 ppb	0.105 ppb	7.905 ppb	0.001 ppb	0.035 ppb	0.042 ppb	0.301 ppb	114.174 %
Concentration per Run 1	-0.002 ppb	0.008 ppb	0.089 ppb	4.511 ppb	0.002 ppb	0.054 ppb	0.043 ppb	0.233 ppb	115.761 %
Concentration per Run 2	-0.002 ppb	0.006 ppb	0.090 ppb	9.966 ppb	0.000 ppb	0.029 ppb	0.044 ppb	0.342 ppb	115.328 %
Concentration per Run 3	0.023 ppb	0.016 ppb	0.137 ppb	9.239 ppb	0.002 ppb	0.022 ppb	0.040 ppb	0.328 ppb	111.432 %
Recovery Percentage 1	0.123 %	1.008 %	10.547 %	15.810 %	0.214 %	1.746 %	4.237 %	6.020 %	
Concentration RSD	235.8 %	54.9 %	25.9 %	37.5 %	110.1 %	47.4 %	4.4 %	19.6 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.011 ppb	0.059 ppb	0.003 ppb	0.134 ppb	111.873 %	0.004 ppb	0.000 ppb	112.198 %	0.049 ppb
Concentration per Run 1	0.032 ppb	0.055 ppb	0.005 ppb	0.140 ppb	111.844 %	0.003 ppb	-0.001 ppb	114.028 %	0.043 ppb
Concentration per Run 2	-0.008 ppb	0.112 ppb	0.004 ppb	0.134 ppb	111.616 %	0.003 ppb	0.000 ppb	111.285 %	0.058 ppb
Concentration per Run 3	0.011 ppb	0.009 ppb	0.000 ppb	0.129 ppb	112.160 %	0.005 ppb	0.001 ppb	111.280 %	0.046 ppb
Recovery Percentage 1	2.268 %	1.171 %	0.030 %	6.715 %		0.936 %	-0.059 %		1.221 %
Concentration RSD	176.8 %	88.5 %	96.0 %	4.3 %	0.2 %	24.2 %	829.1 %	1.4 %	15.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.019 ppb	112.525 %	112.101 %	0.357 ppb	0.004 ppb	109.407 %
Concentration per Run 1	0.010 ppb	111.509 %	112.657 %	0.360 ppb	0.006 ppb	108.035 %
Concentration per Run 2	0.018 ppb	112.167 %	110.621 %	0.396 ppb	0.003 ppb	108.955 %
Concentration per Run 3	0.029 ppb	113.899 %	113.024 %	0.315 ppb	0.004 ppb	111.232 %
Recovery Percentage 1	3.722 %			35.675 %	0.436 %	
Concentration RSD	50.5 %	1.1 %	1.2 %	11.4 %	37.6 %	1.5 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 50 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2343448-01 2008TL Rack 2
 Analysis started at: 8/9/2023 7:40:42 PM Vial 51

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	124.740 %	111.472 %	0.003 ppb	23,271.777 ppb	86.194 ppb	105.701 ppb	59,820.342 ppb	451.823 ppb	120.669 %
Concentration per Run 1	124.106 %	111.240 %	0.004 ppb	22,937.284 ppb	83.898 ppb	100.854 ppb	58,363.066 ppb	439.176 ppb	121.611 %
Concentration per Run 2	125.100 %	109.502 %	0.007 ppb	23,474.084 ppb	92.085 ppb	107.643 ppb	61,136.440 ppb	479.067 ppb	121.277 %
Concentration per Run 3	125.012 %	113.673 %	-0.002 ppb	23,403.964 ppb	82.598 ppb	108.604 ppb	59,961.522 ppb	437.225 ppb	119.119 %
Concentration RSD	0.4 %	1.9 %	155.3 %	1.3 %	6.0 %	4.0 %	2.3 %	5.2 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.194 ppb	3.270 ppb	0.982 ppb	30.520 ppb	0.123 ppb	5.791 ppb	5.446 ppb	17.654 ppb	112.138 %
Concentration per Run 1	0.163 ppb	3.359 ppb	1.000 ppb	33.052 ppb	0.106 ppb	5.842 ppb	5.325 ppb	17.453 ppb	109.124 %
Concentration per Run 2	0.221 ppb	3.311 ppb	0.922 ppb	28.796 ppb	0.130 ppb	5.851 ppb	5.414 ppb	17.852 ppb	111.947 %
Concentration per Run 3	0.198 ppb	3.140 ppb	1.024 ppb	29.714 ppb	0.132 ppb	5.681 ppb	5.599 ppb	17.657 ppb	115.344 %
Concentration RSD	15.2 %	3.5 %	5.4 %	7.3 %	11.7 %	1.6 %	2.6 %	1.1 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.100 ppb	2.752 ppb	3.926 ppb	1.047 ppb	101.605 %	0.016 ppb	3.227 ppb	104.695 %	0.158 ppb
Concentration per Run 1	0.101 ppb	2.501 ppb	3.930 ppb	1.024 ppb	100.498 %	0.015 ppb	3.144 ppb	102.659 %	0.148 ppb
Concentration per Run 2	0.105 ppb	2.672 ppb	3.799 ppb	1.071 ppb	101.054 %	0.020 ppb	3.241 ppb	103.107 %	0.164 ppb
Concentration per Run 3	0.094 ppb	3.082 ppb	4.048 ppb	1.045 ppb	103.262 %	0.013 ppb	3.296 ppb	108.318 %	0.163 ppb
Concentration RSD	5.5 %	10.9 %	3.2 %	2.3 %	1.4 %	22.4 %	2.4 %	3.0 %	5.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3.488 ppb	110.378 %	109.586 %	0.045 ppb	0.099 ppb	100.192 %
Concentration per Run 1	3.448 ppb	107.322 %	106.926 %	0.032 ppb	0.098 ppb	95.965 %
Concentration per Run 2	3.599 ppb	110.166 %	108.707 %	0.053 ppb	0.096 ppb	99.941 %
Concentration per Run 3	3.416 ppb	113.645 %	113.125 %	0.051 ppb	0.103 ppb	104.669 %
Concentration RSD	2.8 %	2.9 %	2.9 %	26.1 %	3.9 %	4.3 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 51 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2343762-01 2008TL Rack 2
 Analysis started at: 8/9/2023 7:45:12 PM Vial 52

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	113.914 %	111.240 %	0.265 ppb	1,283,823.383 ppb	6,860.279 ppb	6,048.599 ppb	5,481.498 ppb	9,050.454 ppb	120.556 %
Concentration per Run 1	115.748 %	104.635 %	0.302 ppb	1,299,434.629 ppb	6,863.512 ppb	6,039.945 ppb	5,581.750 ppb	9,094.466 ppb	121.638 %
Concentration per Run 2	113.394 %	107.416 %	0.243 ppb	1,290,193.203 ppb	6,953.028 ppb	6,035.481 ppb	5,458.620 ppb	9,098.472 ppb	120.470 %
Concentration per Run 3	112.600 %	121.669 %	0.250 ppb	1,261,842.318 ppb	6,764.298 ppb	6,070.372 ppb	5,404.125 ppb	8,958.423 ppb	119.560 %
Concentration RSD	1.4 %	8.2 %	12.2 %	1.5 %	1.4 %	0.3 %	1.7 %	0.9 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	14.838 ppb	15.207 ppb	281.150 ppb	8,217.952 ppb	3.723 ppb	9.521 ppb	191.886 ppb	319.755 ppb	88.098 %
Concentration per Run 1	14.415 ppb	14.789 ppb	279.341 ppb	8,063.149 ppb	3.733 ppb	9.445 ppb	190.920 ppb	319.876 ppb	84.127 %
Concentration per Run 2	15.657 ppb	15.982 ppb	290.651 ppb	8,487.538 ppb	3.741 ppb	9.514 ppb	199.253 ppb	322.219 ppb	83.754 %
Concentration per Run 3	14.441 ppb	14.849 ppb	273.457 ppb	8,103.169 ppb	3.695 ppb	9.603 ppb	185.485 ppb	317.169 ppb	96.413 %
Concentration RSD	4.8 %	4.4 %	3.1 %	2.9 %	0.7 %	0.8 %	3.6 %	0.8 %	8.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.222 ppb	1.164 ppb	82.863 ppb	9.900 ppb	81.110 %	0.135 ppb	0.873 ppb	85.964 %	2.692 ppb
Concentration per Run 1	10.310 ppb	1.302 ppb	81.576 ppb	9.627 ppb	77.472 %	0.131 ppb	0.861 ppb	80.742 %	2.654 ppb
Concentration per Run 2	10.472 ppb	1.235 ppb	84.596 ppb	10.093 ppb	80.730 %	0.135 ppb	0.898 ppb	85.941 %	2.722 ppb
Concentration per Run 3	9.885 ppb	0.954 ppb	82.417 ppb	9.980 ppb	85.127 %	0.140 ppb	0.861 ppb	91.208 %	2.702 ppb
Concentration RSD	3.0 %	15.8 %	1.9 %	2.5 %	4.7 %	3.6 %	2.4 %	6.1 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	70.143 ppb	95.442 %	95.557 %	0.087 ppb	159.677 ppb	73.768 %
Concentration per Run 1	69.561 ppb	88.572 %	87.904 %	0.062 ppb	155.474 ppb	68.383 %
Concentration per Run 2	69.373 ppb	96.399 %	96.085 %	0.092 ppb	157.913 ppb	74.913 %
Concentration per Run 3	71.495 ppb	101.355 %	102.684 %	0.107 ppb	165.644 ppb	78.007 %
Concentration RSD	1.7 %	6.8 %	7.7 %	26.4 %	3.3 %	6.7 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 52 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2345009-01 2008TL Rack 2
 Analysis started at: 8/9/2023 7:49:42 PM Vial 53

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	201.228 %	193.628 %	-0.007 ppb	22,675.402 ppb	668.716 ppb	312.426 ppb	59,747.717 ppb	46,391.923 ppb	126.608 %
Concentration per Run 1	202.316 %	192.933 %	-0.005 ppb	22,552.771 ppb	660.026 ppb	305.739 ppb	58,527.940 ppb	45,397.801 ppb	127.542 %
Concentration per Run 2	202.055 %	194.323 %	-0.008 ppb	23,113.826 ppb	661.090 ppb	315.088 ppb	60,200.084 ppb	47,395.704 ppb	127.384 %
Concentration per Run 3	199.313 %	193.628 %	-0.009 ppb	22,359.610 ppb	685.033 ppb	316.451 ppb	60,515.127 ppb	46,382.264 ppb	124.897 %
Concentration RSD	0.8 %	0.4 %	30.9 %	1.7 %	2.1 %	1.9 %	1.8 %	2.2 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	9.458 ppb	46.385 ppb	3.350 ppb	118.559 ppb	0.611 ppb	2.206 ppb	6.432 ppb	41.112 ppb	110.689 %
Concentration per Run 1	9.364 ppb	45.459 ppb	3.542 ppb	119.358 ppb	0.607 ppb	2.153 ppb	6.163 ppb	40.459 ppb	109.490 %
Concentration per Run 2	9.552 ppb	46.134 ppb	3.296 ppb	116.147 ppb	0.568 ppb	2.242 ppb	6.413 ppb	41.048 ppb	114.709 %
Concentration per Run 3	9.458 ppb	47.563 ppb	3.212 ppb	120.172 ppb	0.658 ppb	2.222 ppb	6.719 ppb	41.828 ppb	107.869 %
Concentration RSD	1.0 %	2.3 %	5.1 %	1.8 %	7.4 %	2.1 %	4.3 %	1.7 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	8.156 ppb	0.543 ppb	1,222.102 ppb	12.370 ppb	103.928 %	0.006 ppb	0.009 ppb	103.983 %	3.006 ppb
Concentration per Run 1	7.974 ppb	0.525 ppb	1,198.259 ppb	11.918 ppb	101.233 %	0.006 ppb	0.011 ppb	100.819 %	3.025 ppb
Concentration per Run 2	8.066 ppb	0.643 ppb	1,231.413 ppb	12.606 ppb	103.587 %	0.008 ppb	0.008 ppb	105.364 %	2.894 ppb
Concentration per Run 3	8.428 ppb	0.462 ppb	1,236.633 ppb	12.585 ppb	106.963 %	0.006 ppb	0.007 ppb	105.765 %	3.097 ppb
Concentration RSD	2.9 %	16.9 %	1.7 %	3.2 %	2.8 %	17.8 %	21.5 %	2.6 %	3.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	53.993 ppb	107.554 %	104.746 %	0.007 ppb	0.307 ppb	94.406 %
Concentration per Run 1	53.364 ppb	102.416 %	100.503 %	-0.003 ppb	0.297 ppb	89.716 %
Concentration per Run 2	54.465 ppb	108.432 %	105.821 %	0.012 ppb	0.313 ppb	95.020 %
Concentration per Run 3	54.150 ppb	111.815 %	107.914 %	0.010 ppb	0.312 ppb	98.481 %
Concentration RSD	1.1 %	4.4 %	3.6 %	120.3 %	2.8 %	4.7 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 53 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2345009-02 2008TL Rack 2
 Analysis started at: 8/9/2023 7:54:11 PM Vial 54

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	212.952 %	204.637 %	-0.003 ppb	23,576.016 ppb	842.387 ppb	587.350 ppb	65,171.647 ppb	48,857.232 ppb	128.864 %
Concentration per Run 1	213.005 %	202.319 %	-0.003 ppb	22,634.105 ppb	800.160 ppb	568.911 ppb	63,256.816 ppb	46,746.600 ppb	128.354 %
Concentration per Run 2	214.659 %	217.963 %	-0.004 ppb	23,392.778 ppb	868.674 ppb	615.346 ppb	67,708.463 ppb	51,657.487 ppb	130.500 %
Concentration per Run 3	211.192 %	193.628 %	-0.002 ppb	24,701.166 ppb	858.327 ppb	577.792 ppb	64,549.664 ppb	48,167.610 ppb	127.738 %
Concentration RSD	0.8 %	6.0 %	34.8 %	4.4 %	4.4 %	4.2 %	3.5 %	5.2 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	10.620 ppb	49.302 ppb	10.560 ppb	358.901 ppb	0.733 ppb	2.440 ppb	6.843 ppb	60.962 ppb	115.619 %
Concentration per Run 1	10.646 ppb	47.879 ppb	10.621 ppb	346.780 ppb	0.709 ppb	2.210 ppb	6.751 ppb	59.573 ppb	112.561 %
Concentration per Run 2	10.789 ppb	49.533 ppb	10.965 ppb	362.061 ppb	0.761 ppb	2.382 ppb	6.695 ppb	60.658 ppb	119.029 %
Concentration per Run 3	10.425 ppb	50.493 ppb	10.093 ppb	367.862 ppb	0.728 ppb	2.727 ppb	7.081 ppb	62.655 ppb	115.266 %
Concentration RSD	1.7 %	2.7 %	4.2 %	3.0 %	3.6 %	10.8 %	3.0 %	2.6 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	8.477 ppb	0.606 ppb	1,219.624 ppb	12.895 ppb	105.206 %	0.009 ppb	0.011 ppb	109.712 %	3.113 ppb
Concentration per Run 1	8.084 ppb	0.661 ppb	1,163.118 ppb	12.704 ppb	102.170 %	0.008 ppb	0.015 ppb	103.586 %	3.058 ppb
Concentration per Run 2	8.767 ppb	0.605 ppb	1,273.858 ppb	12.983 ppb	106.839 %	0.008 ppb	0.006 ppb	115.088 %	3.134 ppb
Concentration per Run 3	8.579 ppb	0.551 ppb	1,221.894 ppb	12.997 ppb	106.611 %	0.011 ppb	0.013 ppb	110.463 %	3.145 ppb
Concentration RSD	4.2 %	9.1 %	4.5 %	1.3 %	2.5 %	18.9 %	43.0 %	5.3 %	1.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	53.851 ppb	112.506 %	111.026 %	-0.001 ppb	0.767 ppb	99.130 %
Concentration per Run 1	52.602 ppb	106.986 %	103.653 %	-0.013 ppb	0.754 ppb	94.286 %
Concentration per Run 2	54.775 ppb	115.096 %	116.684 %	0.006 ppb	0.774 ppb	101.376 %
Concentration per Run 3	54.177 ppb	115.436 %	112.742 %	0.005 ppb	0.773 ppb	101.728 %
Concentration RSD	2.1 %	4.3 %	6.0 %	1,726.2 %	1.5 %	4.2 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 54 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: CCV Rack: 0
 Analysis started at: 8/9/2023 8:09:55 PM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	126.690 %	119.467 %	58.834 ppb	6,149.906 ppb	6,128.990 ppb	59.542 ppb	5,895.679 ppb	5,860.622 ppb	124.275 %
Concentration per Run 1	126.741 %	114.716 %	58.478 ppb	6,265.698 ppb	6,205.782 ppb	61.998 ppb	5,908.867 ppb	5,928.427 ppb	124.773 %
Concentration per Run 2	127.571 %	131.055 %	59.790 ppb	5,725.766 ppb	5,780.612 ppb	57.360 ppb	5,799.249 ppb	5,736.279 ppb	124.472 %
Concentration per Run 3	125.757 %	112.630 %	58.233 ppb	6,458.253 ppb	6,400.577 ppb	59.267 ppb	5,978.920 ppb	5,917.161 ppb	123.581 %
Recovery Percentage 1			98.056 %	102.498 %	102.150 %	99.237 %	98.261 %	97.677 %	
Concentration RSD	0.7 %	8.4 %	1.4 %	6.2 %	5.2 %	3.9 %	1.5 %	1.8 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.561 ppb	60.774 ppb	59.204 ppb	6,035.134 ppb	61.515 ppb	61.595 ppb	62.558 ppb	62.145 ppb	110.370 %
Concentration per Run 1	59.782 ppb	60.262 ppb	58.205 ppb	6,018.140 ppb	60.997 ppb	60.964 ppb	61.547 ppb	62.089 ppb	112.127 %
Concentration per Run 2	58.036 ppb	59.983 ppb	59.280 ppb	5,981.874 ppb	60.860 ppb	61.699 ppb	62.465 ppb	61.816 ppb	111.496 %
Concentration per Run 3	60.865 ppb	62.077 ppb	60.127 ppb	6,105.389 ppb	62.689 ppb	62.122 ppb	63.661 ppb	62.530 ppb	107.487 %
Recovery Percentage 1	99.269 %	101.290 %	98.673 %	100.586 %	102.525 %	102.658 %	104.263 %	103.574 %	
Concentration RSD	2.4 %	1.9 %	1.6 %	1.1 %	1.7 %	1.0 %	1.7 %	0.6 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.818 ppb	59.452 ppb	58.111 ppb	58.743 ppb	110.368 %	60.211 ppb	59.636 ppb	107.786 %	58.951 ppb
Concentration per Run 1	60.494 ppb	59.895 ppb	57.020 ppb	57.667 ppb	109.675 %	59.444 ppb	58.235 ppb	107.257 %	56.772 ppb
Concentration per Run 2	61.163 ppb	60.463 ppb	59.112 ppb	58.548 ppb	110.790 %	60.303 ppb	59.964 ppb	107.557 %	60.447 ppb
Concentration per Run 3	60.798 ppb	57.998 ppb	58.202 ppb	60.014 ppb	110.638 %	60.887 ppb	60.709 ppb	108.545 %	59.632 ppb
Recovery Percentage 1	101.364 %	99.087 %	96.852 %	97.905 %		100.352 %	99.393 %		98.251 %
Concentration RSD	0.6 %	2.2 %	1.8 %	2.0 %	0.5 %	1.2 %	2.1 %	0.6 %	3.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.453 ppb	112.157 %	109.165 %	59.800 ppb	58.895 ppb	106.421 %
Concentration per Run 1	57.196 ppb	107.999 %	104.233 %	57.128 ppb	58.021 ppb	102.662 %
Concentration per Run 2	59.544 ppb	114.328 %	111.623 %	60.123 ppb	58.951 ppb	106.746 %
Concentration per Run 3	58.620 ppb	114.145 %	111.640 %	62.150 ppb	59.711 ppb	109.856 %
Recovery Percentage 1	97.422 %			99.667 %	98.158 %	
Concentration RSD	2.0 %	3.2 %	3.9 %	4.2 %	1.4 %	3.4 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 55 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/9/2023 8:14:27 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	127.335 %	116.802 %	0.000 ppb	5.988 ppb	-1.817 ppb	-0.782 ppb	1.033 ppb	-0.281 ppb	120.510 %
Concentration per Run 1	127.237 %	116.802 %	0.002 ppb	6.911 ppb	-1.988 ppb	-0.448 ppb	1.469 ppb	-0.944 ppb	119.671 %
Concentration per Run 2	126.406 %	119.235 %	0.001 ppb	5.651 ppb	-1.993 ppb	-0.992 ppb	0.931 ppb	-0.980 ppb	120.811 %
Concentration per Run 3	128.360 %	114.369 %	-0.002 ppb	5.403 ppb	-1.470 ppb	-0.906 ppb	0.698 ppb	1.082 ppb	121.048 %
Recovery Percentage 1			0.029 %	5.988 %	-2.596 %	-7.822 %	1.033 %	-0.281 %	
Concentration RSD	0.8 %	2.1 %	1,540.3 %	13.5 %	16.5 %	37.4 %	38.3 %	420.0 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.004 ppb	0.006 ppb	0.070 ppb	7.587 ppb	0.003 ppb	0.047 ppb	0.051 ppb	0.334 ppb	112.469 %
Concentration per Run 1	0.022 ppb	0.007 ppb	0.050 ppb	7.560 ppb	0.002 ppb	0.062 ppb	0.060 ppb	0.326 ppb	110.937 %
Concentration per Run 2	0.006 ppb	0.006 ppb	0.070 ppb	8.573 ppb	0.000 ppb	0.021 ppb	0.035 ppb	0.312 ppb	112.153 %
Concentration per Run 3	-0.016 ppb	0.006 ppb	0.090 ppb	6.628 ppb	0.008 ppb	0.058 ppb	0.058 ppb	0.364 ppb	114.318 %
Recovery Percentage 1	0.076 %	0.631 %	6.995 %	15.174 %	0.639 %	2.363 %	5.117 %	6.676 %	
Concentration RSD	501.9 %	4.9 %	28.2 %	12.8 %	134.9 %	47.8 %	27.2 %	8.0 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.017 ppb	0.003 ppb	0.003 ppb	0.139 ppb	112.968 %	0.004 ppb	0.001 ppb	112.298 %	0.041 ppb
Concentration per Run 1	0.003 ppb	0.009 ppb	0.002 ppb	0.146 ppb	111.607 %	0.003 ppb	0.002 ppb	110.897 %	0.036 ppb
Concentration per Run 2	0.029 ppb	-0.028 ppb	0.003 ppb	0.133 ppb	114.183 %	0.005 ppb	0.000 ppb	112.712 %	0.041 ppb
Concentration per Run 3	0.017 ppb	0.029 ppb	0.003 ppb	0.139 ppb	113.114 %	0.002 ppb	0.002 ppb	113.285 %	0.046 ppb
Recovery Percentage 1	3.351 %	0.069 %	0.028 %	6.963 %		0.898 %	0.581 %		1.022 %
Concentration RSD	77.8 %	844.1 %	38.4 %	4.6 %	1.1 %	43.4 %	96.4 %	1.1 %	11.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.018 ppb	114.763 %	113.750 %	0.360 ppb	0.007 ppb	114.217 %
Concentration per Run 1	0.018 ppb	112.618 %	111.236 %	0.374 ppb	0.009 ppb	111.216 %
Concentration per Run 2	0.021 ppb	114.101 %	113.315 %	0.409 ppb	0.006 ppb	114.237 %
Concentration per Run 3	0.017 ppb	117.569 %	116.699 %	0.296 ppb	0.006 ppb	117.199 %
Recovery Percentage 1	3.659 %			35.974 %	0.693 %	
Concentration RSD	12.1 %	2.2 %	2.4 %	16.2 %	20.7 %	2.6 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 56 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/9/2023 9:35:31 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	112.320 %	101.854 %	59.163 ppb	6,033.239 ppb	6,040.352 ppb	54.657 ppb	5,672.691 ppb	5,782.850 ppb	109.686 %
Concentration per Run 1	112.222 %	106.721 %	59.477 ppb	5,745.265 ppb	5,715.035 ppb	49.301 ppb	5,480.253 ppb	5,608.849 ppb	109.587 %
Concentration per Run 2	112.846 %	106.026 %	58.492 ppb	5,850.380 ppb	5,874.567 ppb	57.715 ppb	5,455.816 ppb	5,550.804 ppb	110.448 %
Concentration per Run 3	111.891 %	92.816 %	59.520 ppb	6,504.071 ppb	6,531.453 ppb	56.955 ppb	6,082.003 ppb	6,188.899 ppb	109.022 %
Recovery Percentage 1			98.605 %	100.554 %	100.673 %	91.095 %	94.545 %	96.381 %	
Concentration RSD	0.4 %	7.7 %	1.0 %	6.8 %	7.2 %	8.5 %	6.3 %	6.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.891 ppb	61.570 ppb	59.650 ppb	6,063.284 ppb	62.213 ppb	62.312 ppb	62.625 ppb	62.182 ppb	99.319 %
Concentration per Run 1	57.178 ppb	59.407 ppb	56.910 ppb	5,908.191 ppb	61.236 ppb	61.640 ppb	61.638 ppb	61.097 ppb	97.252 %
Concentration per Run 2	56.844 ppb	59.637 ppb	58.245 ppb	5,915.843 ppb	60.730 ppb	60.890 ppb	62.168 ppb	61.481 ppb	101.732 %
Concentration per Run 3	62.650 ppb	65.665 ppb	63.793 ppb	6,365.818 ppb	64.673 ppb	64.406 ppb	64.070 ppb	63.968 ppb	98.971 %
Recovery Percentage 1	98.151 %	102.616 %	99.416 %	101.055 %	103.689 %	103.853 %	104.376 %	103.637 %	
Concentration RSD	5.5 %	5.8 %	6.1 %	4.3 %	3.4 %	3.0 %	2.0 %	2.5 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.434 ppb	58.250 ppb	56.779 ppb	58.081 ppb	100.061 %	60.682 ppb	59.572 ppb	98.036 %	59.247 ppb
Concentration per Run 1	60.977 ppb	57.938 ppb	53.813 ppb	55.054 ppb	96.444 %	59.851 ppb	58.030 ppb	93.318 %	57.756 ppb
Concentration per Run 2	60.039 ppb	57.412 ppb	57.473 ppb	59.366 ppb	102.100 %	60.726 ppb	60.181 ppb	99.393 %	60.199 ppb
Concentration per Run 3	63.285 ppb	59.400 ppb	59.053 ppb	59.823 ppb	101.639 %	61.469 ppb	60.504 ppb	101.398 %	59.787 ppb
Recovery Percentage 1	102.389 %	97.083 %	94.632 %	96.802 %		101.136 %	99.286 %		98.746 %
Concentration RSD	2.7 %	1.8 %	4.7 %	4.5 %	3.1 %	1.3 %	2.3 %	4.3 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.390 ppb	105.044 %	104.701 %	60.114 ppb	58.821 ppb	104.632 %
Concentration per Run 1	56.367 ppb	99.092 %	97.459 %	57.330 ppb	57.469 ppb	99.409 %
Concentration per Run 2	59.952 ppb	105.959 %	105.332 %	60.679 ppb	59.380 ppb	105.727 %
Concentration per Run 3	61.852 ppb	110.079 %	111.311 %	62.333 ppb	59.615 ppb	108.760 %
Recovery Percentage 1	98.984 %			100.190 %	98.036 %	
Concentration RSD	4.7 %	5.3 %	6.6 %	4.2 %	2.0 %	4.6 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 57 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/9/2023 9:40:36 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	113.891 %	106.489 %	-0.007 ppb	2.428 ppb	-2.061 ppb	-0.186 ppb	1.901 ppb	1.422 ppb	107.814 %
Concentration per Run 1	113.771 %	113.326 %	-0.009 ppb	2.360 ppb	-1.975 ppb	0.005 ppb	3.392 ppb	2.444 ppb	106.502 %
Concentration per Run 2	114.888 %	108.111 %	-0.010 ppb	2.642 ppb	-1.965 ppb	-0.615 ppb	-0.271 ppb	-0.866 ppb	109.500 %
Concentration per Run 3	113.014 %	98.030 %	-0.002 ppb	2.283 ppb	-2.244 ppb	0.052 ppb	2.583 ppb	2.689 ppb	107.441 %
Recovery Percentage 1			-1.387 %	2.428 %	-2.945 %	-1.858 %	1.901 %	1.422 %	
Concentration RSD	0.8 %	7.3 %	60.5 %	7.8 %	7.7 %	200.5 %	101.2 %	139.6 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.010 ppb	-0.003 ppb	0.117 ppb	5.258 ppb	0.005 ppb	0.053 ppb	0.057 ppb	0.366 ppb	100.350 %
Concentration per Run 1	-0.021 ppb	-0.012 ppb	0.081 ppb	4.027 ppb	0.002 ppb	0.037 ppb	0.095 ppb	0.354 ppb	99.787 %
Concentration per Run 2	0.046 ppb	-0.001 ppb	0.129 ppb	6.513 ppb	0.007 ppb	0.048 ppb	0.053 ppb	0.396 ppb	99.045 %
Concentration per Run 3	0.006 ppb	0.004 ppb	0.142 ppb	5.233 ppb	0.005 ppb	0.073 ppb	0.025 ppb	0.349 ppb	102.219 %
Recovery Percentage 1	0.207 %	-0.295 %	11.749 %	10.515 %	0.930 %	2.641 %	5.745 %	7.325 %	
Concentration RSD	326.9 %	267.2 %	27.4 %	23.6 %	51.5 %	35.2 %	61.0 %	7.1 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.002 ppb	0.032 ppb	0.003 ppb	0.093 ppb	105.631 %	0.003 ppb	0.000 ppb	105.456 %	0.030 ppb
Concentration per Run 1	-0.011 ppb	0.061 ppb	0.004 ppb	0.144 ppb	105.093 %	0.005 ppb	0.001 ppb	104.736 %	0.028 ppb
Concentration per Run 2	0.010 ppb	0.067 ppb	0.004 ppb	0.091 ppb	105.272 %	0.003 ppb	0.000 ppb	104.935 %	0.031 ppb
Concentration per Run 3	0.005 ppb	-0.031 ppb	0.001 ppb	0.045 ppb	106.529 %	0.001 ppb	0.000 ppb	106.697 %	0.030 ppb
Recovery Percentage 1	0.306 %	0.648 %	0.031 %	4.671 %		0.741 %	0.141 %		0.748 %
Concentration RSD	728.5 %	169.4 %	47.7 %	52.9 %	0.7 %	73.8 %	213.1 %	1.0 %	5.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.003 ppb	109.906 %	110.142 %	0.265 ppb	0.006 ppb	111.543 %
Concentration per Run 1	-0.005 ppb	108.058 %	107.496 %	0.327 ppb	0.007 ppb	108.117 %
Concentration per Run 2	0.007 ppb	109.379 %	109.651 %	0.260 ppb	0.006 ppb	112.279 %
Concentration per Run 3	0.007 ppb	112.281 %	113.280 %	0.207 ppb	0.005 ppb	114.232 %
Recovery Percentage 1	0.600 %			26.475 %	0.602 %	
Concentration RSD	221.4 %	2.0 %	2.7 %	22.9 %	22.0 %	2.8 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 58 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: wg1809144-1 6020TL Rack: 2
 Analysis started at: 8/9/2023 9:50:11 PM Vial: 55

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	116.676 %	107.184 %	-0.005 ppb	3.105 ppb	-0.490 ppb	1.349 ppb	6.007 ppb	5.625 ppb	110.855 %
Concentration per Run 1	116.709 %	118.888 %	-0.004 ppb	3.019 ppb	-0.966 ppb	2.086 ppb	4.200 ppb	5.358 ppb	111.200 %
Concentration per Run 2	117.767 %	106.026 %	-0.004 ppb	3.534 ppb	-0.038 ppb	0.772 ppb	3.652 ppb	6.685 ppb	110.908 %
Concentration per Run 3	115.553 %	96.640 %	-0.007 ppb	2.761 ppb	-0.465 ppb	1.189 ppb	10.169 ppb	4.832 ppb	110.457 %
Concentration RSD	0.9 %	10.4 %	33.0 %	12.7 %	94.9 %	49.8 %	60.2 %	17.0 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.027 ppb	0.017 ppb	0.156 ppb	2.812 ppb	0.004 ppb	0.083 ppb	0.043 ppb	0.441 ppb	107.811 %
Concentration per Run 1	-0.007 ppb	0.023 ppb	0.149 ppb	3.262 ppb	0.000 ppb	0.140 ppb	0.048 ppb	0.480 ppb	106.073 %
Concentration per Run 2	-0.046 ppb	0.033 ppb	0.193 ppb	2.085 ppb	0.002 ppb	0.067 ppb	0.032 ppb	0.445 ppb	109.742 %
Concentration per Run 3	-0.029 ppb	-0.007 ppb	0.125 ppb	3.089 ppb	0.011 ppb	0.041 ppb	0.049 ppb	0.398 ppb	107.619 %
Concentration RSD	70.5 %	125.1 %	22.4 %	22.6 %	139.7 %	61.9 %	22.0 %	9.4 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.013 ppb	-0.022 ppb	0.004 ppb	0.006 ppb	109.522 %	0.000 ppb	-0.001 ppb	107.141 %	0.005 ppb
Concentration per Run 1	-0.008 ppb	-0.031 ppb	0.005 ppb	0.003 ppb	107.782 %	0.000 ppb	-0.001 ppb	103.678 %	0.004 ppb
Concentration per Run 2	-0.016 ppb	-0.009 ppb	0.004 ppb	0.013 ppb	109.247 %	0.000 ppb	0.000 ppb	108.633 %	0.004 ppb
Concentration per Run 3	-0.016 ppb	-0.025 ppb	0.004 ppb	0.003 ppb	111.538 %	0.001 ppb	-0.001 ppb	109.111 %	0.007 ppb
Concentration RSD	36.1 %	50.8 %	16.6 %	88.7 %	1.7 %	176.8 %	75.9 %	2.8 %	36.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.009 ppb	110.321 %	109.596 %	0.005 ppb	0.005 ppb	112.230 %
Concentration per Run 1	0.007 ppb	106.002 %	105.426 %	0.012 ppb	0.005 ppb	108.301 %
Concentration per Run 2	0.003 ppb	109.925 %	109.808 %	0.005 ppb	0.005 ppb	111.934 %
Concentration per Run 3	0.017 ppb	115.038 %	113.554 %	-0.002 ppb	0.004 ppb	116.456 %
Concentration RSD	80.8 %	4.1 %	3.7 %	150.5 %	10.5 %	3.6 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 59 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: wg1809144-2D10 6020TL Rack: 2
 Analysis started at: 8/9/2023 9:54:41 PM Vial: 56

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	112.401 %	100.232 %	5.110 ppb	1,068.226 ppb	1,054.799 ppb	209.518 ppb	1,059.731 ppb	1,057.222 ppb	108.260 %
Concentration per Run 1	111.702 %	101.854 %	5.041 ppb	1,081.427 ppb	1,057.609 ppb	208.251 ppb	1,073.539 ppb	1,133.082 ppb	108.630 %
Concentration per Run 2	114.084 %	95.597 %	5.020 ppb	1,098.075 ppb	1,072.906 ppb	220.040 ppb	1,071.937 ppb	1,085.079 ppb	109.110 %
Concentration per Run 3	111.417 %	103.245 %	5.269 ppb	1,025.176 ppb	1,033.881 ppb	200.263 ppb	1,033.718 ppb	953.505 ppb	107.039 %
Concentration RSD	1.3 %	4.1 %	2.7 %	3.6 %	1.9 %	4.7 %	2.1 %	8.8 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	51.993 ppb	21.155 ppb	53.556 ppb	105.885 ppb	52.775 ppb	52.060 ppb	26.864 ppb	53.104 ppb	105.675 %
Concentration per Run 1	52.746 ppb	20.971 ppb	53.354 ppb	108.299 ppb	53.390 ppb	53.366 ppb	27.334 ppb	53.694 ppb	103.447 %
Concentration per Run 2	53.755 ppb	21.747 ppb	54.723 ppb	106.959 ppb	53.775 ppb	53.350 ppb	27.268 ppb	53.930 ppb	105.358 %
Concentration per Run 3	49.478 ppb	20.745 ppb	52.592 ppb	102.397 ppb	51.161 ppb	49.465 ppb	25.991 ppb	51.688 ppb	108.220 %
Concentration RSD	4.3 %	2.5 %	2.0 %	2.9 %	2.7 %	4.3 %	2.8 %	2.3 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.030 ppb	12.435 ppb	100.064 ppb	99.124 ppb	105.736 %	5.173 ppb	5.583 ppb	106.188 %	46.321 ppb
Concentration per Run 1	13.174 ppb	12.298 ppb	101.086 ppb	99.425 ppb	104.705 %	5.131 ppb	5.510 ppb	104.924 %	45.381 ppb
Concentration per Run 2	12.969 ppb	12.813 ppb	100.521 ppb	99.041 ppb	106.016 %	5.197 ppb	5.608 ppb	106.634 %	46.859 ppb
Concentration per Run 3	12.948 ppb	12.196 ppb	98.585 ppb	98.906 ppb	106.488 %	5.191 ppb	5.629 ppb	107.005 %	46.722 ppb
Concentration RSD	1.0 %	2.7 %	1.3 %	0.3 %	0.9 %	0.7 %	1.1 %	1.0 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	202.668 ppb	110.090 %	110.669 %	12.700 ppb	54.678 ppb	110.027 %
Concentration per Run 1	202.419 ppb	107.529 %	107.555 %	12.606 ppb	54.533 ppb	107.298 %
Concentration per Run 2	203.569 ppb	109.206 %	111.294 %	12.960 ppb	55.092 ppb	109.654 %
Concentration per Run 3	202.015 ppb	113.534 %	113.159 %	12.534 ppb	54.409 ppb	113.130 %
Concentration RSD	0.4 %	2.8 %	2.6 %	1.8 %	0.7 %	2.7 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 60 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: wg1809144-3D10 6020TL Rack: 2
 Analysis started at: 8/9/2023 9:59:11 PM Vial: 58

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	108.497 %	96.292 %	5.152 ppb	20,574.748 ppb	6,129.315 ppb	217.716 ppb	2,141.785 ppb	16,797.148 ppb	106.995 %
Concentration per Run 1	107.583 %	87.949 %	5.046 ppb	21,973.682 ppb	6,457.843 ppb	232.527 ppb	2,201.440 ppb	17,366.231 ppb	106.651 %
Concentration per Run 2	108.573 %	96.640 %	5.186 ppb	20,397.764 ppb	6,097.918 ppb	214.643 ppb	2,110.441 ppb	16,706.285 ppb	106.125 %
Concentration per Run 3	109.337 %	104.287 %	5.223 ppb	19,352.799 ppb	5,832.185 ppb	205.980 ppb	2,113.473 ppb	16,318.927 ppb	108.209 %
Concentration RSD	0.8 %	8.5 %	1.8 %	6.4 %	5.1 %	6.2 %	2.4 %	3.2 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	52.065 ppb	21.126 ppb	162.618 ppb	828.194 ppb	51.272 ppb	49.992 ppb	26.375 ppb	51.021 ppb	102.952 %
Concentration per Run 1	53.147 ppb	21.562 ppb	164.211 ppb	861.792 ppb	52.239 ppb	50.961 ppb	27.168 ppb	51.972 ppb	100.540 %
Concentration per Run 2	50.931 ppb	21.048 ppb	162.283 ppb	803.075 ppb	50.727 ppb	49.163 ppb	26.015 ppb	50.181 ppb	105.445 %
Concentration per Run 3	52.117 ppb	20.768 ppb	161.360 ppb	819.715 ppb	50.849 ppb	49.852 ppb	25.943 ppb	50.909 ppb	102.870 %
Concentration RSD	2.1 %	1.9 %	0.9 %	3.7 %	1.6 %	1.8 %	2.6 %	1.8 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.853 ppb	5.731 ppb	330.842 ppb	102.075 ppb	98.655 %	5.048 ppb	5.573 ppb	101.547 %	48.917 ppb
Concentration per Run 1	12.830 ppb	5.784 ppb	329.206 ppb	101.258 ppb	96.800 %	5.080 ppb	5.641 ppb	99.986 %	48.344 ppb
Concentration per Run 2	12.782 ppb	5.856 ppb	328.042 ppb	101.000 ppb	98.544 %	5.042 ppb	5.683 ppb	100.715 %	49.668 ppb
Concentration per Run 3	12.947 ppb	5.552 ppb	335.278 ppb	103.967 ppb	100.620 %	5.021 ppb	5.395 ppb	103.939 %	48.739 ppb
Concentration RSD	0.7 %	2.8 %	1.2 %	1.6 %	1.9 %	0.6 %	2.8 %	2.1 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	453.884 ppb	105.904 %	106.210 %	12.920 ppb	55.238 ppb	100.031 %
Concentration per Run 1	451.621 ppb	103.350 %	102.830 %	12.977 ppb	55.105 ppb	96.951 %
Concentration per Run 2	458.149 ppb	106.525 %	107.556 %	12.966 ppb	55.307 ppb	100.321 %
Concentration per Run 3	451.883 ppb	107.837 %	108.246 %	12.817 ppb	55.301 ppb	102.819 %
Concentration RSD	0.8 %	2.2 %	2.8 %	0.7 %	0.2 %	2.9 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 61 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: xwg1809144-5D10 6020TL Rack: 2
 Analysis started at: 8/9/2023 10:03:41 PM Vial: 60

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	38.776 %	44.843 %	149.499 ppb	58,920.099 ppb	24,448.574 ppb	148,242 ppb	14,958.161 ppb	48,916.118 ppb	43.163 %
Concentration per Run 1	37.270 %	49.015 %	158.078 ppb	50,308.556 ppb	20,517.631 ppb	120.308 ppb	12,800.462 ppb	41,430.656 ppb	41.455 %
Concentration per Run 2	39.234 %	52.839 %	145.697 ppb	45,106.534 ppb	18,866.481 ppb	118.155 ppb	11,048.396 ppb	36,474.984 ppb	44.161 %
Concentration per Run 3	39.824 %	32.677 %	144.721 ppb	81,345.207 ppb	33,961.609 ppb	206.264 ppb	21,025.625 ppb	68,842.714 ppb	43.873 %
Concentration RSD	3.4 %	23.9 %	5.0 %	33.3 %	33.9 %	33.9 %	35.6 %	35.6 %	3.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	125.036 ppb	124.401 ppb	390.090 ppb	13,944.565 ppb	121.428 ppb	120.640 ppb	122.227 ppb	122.935 ppb	49.387 %
Concentration per Run 1	107.454 ppb	105.565 ppb	335.354 ppb	11,934.540 ppb	104.799 ppb	103.614 ppb	107.564 ppb	106.613 ppb	49.993 %
Concentration per Run 2	91.608 ppb	91.295 ppb	285.130 ppb	10,242.404 ppb	89.463 ppb	89.928 ppb	88.633 ppb	88.567 ppb	63.680 %
Concentration per Run 3	176.046 ppb	176.341 ppb	549.787 ppb	19,656.749 ppb	170.022 ppb	168.379 ppb	170.484 ppb	173.625 ppb	34.488 %
Concentration RSD	35.9 %	36.6 %	36.0 %	36.0 %	35.2 %	34.7 %	35.1 %	36.5 %	29.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	122.476 ppb	117.876 ppb	654.158 ppb	122.801 ppb	47.407 %	4.035 ppb	116.430 ppb	48.869 %	119.455 ppb
Concentration per Run 1	107.362 ppb	100.092 ppb	538.747 ppb	102.214 ppb	50.553 %	3.419 ppb	96.611 ppb	51.400 %	98.540 ppb
Concentration per Run 2	86.552 ppb	82.722 ppb	488.023 ppb	92.765 ppb	57.676 %	3.046 ppb	89.450 ppb	60.092 %	91.523 ppb
Concentration per Run 3	173.512 ppb	170.815 ppb	935.704 ppb	173.424 ppb	33.992 %	5.641 ppb	163.230 ppb	35.115 %	168.301 ppb
Concentration RSD	37.1 %	39.6 %	37.5 %	35.9 %	25.6 %	34.8 %	34.9 %	25.9 %	35.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	695.141 ppb	51.417 %	52.031 %	119.497 ppb	120.448 ppb	48.098 %
Concentration per Run 1	573.910 ppb	53.709 %	54.405 %	95.104 ppb	100.363 ppb	50.779 %
Concentration per Run 2	534.220 ppb	63.382 %	63.935 %	91.775 ppb	91.566 ppb	58.755 %
Concentration per Run 3	977.293 ppb	37.160 %	37.752 %	171.613 ppb	169.415 ppb	34.760 %
Concentration RSD	35.3 %	25.8 %	25.5 %	37.8 %	35.4 %	25.4 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 62 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: xwg1809144-4 6020TL Rack: 2
 Analysis started at: 8/9/2023 10:08:12 PM Vial: 59

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	134.408 %	73.812 %	0.866 ppb	7,633.202 ppb	3,249.341 ppb	16.482 ppb	1,943.423 ppb	6,553.598 ppb	114.147 %
Concentration per Run 1	134.486 %	44.843 %	1.023 ppb	15,317.060 ppb	6,457.128 ppb	32.203 ppb	3,947.595 ppb	13,137.756 ppb	114.747 %
Concentration per Run 2	134.331 %	67.091 %	0.871 ppb	6,381.778 ppb	2,638.222 ppb	14.199 ppb	1,627.296 ppb	5,222.660 ppb	113.450 %
Concentration per Run 3	134.407 %	109.502 %	0.704 ppb	1,200.766 ppb	652.673 ppb	3.044 ppb	255.378 ppb	1,300.378 ppb	114.244 %
Concentration RSD	0.1 %	44.5 %	18.4 %	93.6 %	90.8 %	89.3 %	96.0 %	92.0 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	15.906 ppb	15.525 ppb	48.903 ppb	1,726.612 ppb	15.221 ppb	15.714 ppb	15.896 ppb	18.218 ppb	89.740 %
Concentration per Run 1	31.944 ppb	31.312 ppb	99.302 ppb	3,470.042 ppb	30.986 ppb	32.698 ppb	32.558 ppb	37.510 ppb	50.290 %
Concentration per Run 2	12.480 ppb	11.839 ppb	37.968 ppb	1,318.634 ppb	11.511 ppb	11.169 ppb	11.797 ppb	13.610 ppb	88.455 %
Concentration per Run 3	3.295 ppb	3.423 ppb	9.439 ppb	391.160 ppb	3.164 ppb	3.275 ppb	3.333 ppb	3.535 ppb	130.476 %
Concentration RSD	92.0 %	92.1 %	93.9 %	91.5 %	93.8 %	96.9 %	94.6 %	95.8 %	44.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	16.423 ppb	19.767 ppb	79.215 ppb	15.739 ppb	85.653 %	0.533 ppb	15.831 ppb	88.084 %	16.265 ppb
Concentration per Run 1	33.479 ppb	40.126 ppb	162.560 ppb	31.333 ppb	50.448 %	1.100 ppb	32.447 ppb	51.618 %	32.767 ppb
Concentration per Run 2	12.573 ppb	15.674 ppb	59.896 ppb	11.878 ppb	85.589 %	0.419 ppb	11.825 ppb	88.445 %	12.526 ppb
Concentration per Run 3	3.216 ppb	3.501 ppb	15.190 ppb	4.005 ppb	120.921 %	0.082 ppb	3.222 ppb	124.188 %	3.503 ppb
Concentration RSD	94.3 %	94.4 %	95.4 %	89.4 %	41.1 %	97.3 %	94.9 %	41.2 %	92.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	85.067 ppb	93.083 %	93.293 %	17.009 ppb	15.238 ppb	93.377 %
Concentration per Run 1	173.287 ppb	54.362 %	54.879 %	33.042 ppb	31.519 ppb	52.628 %
Concentration per Run 2	65.333 ppb	93.337 %	94.690 %	13.686 ppb	11.484 ppb	91.708 %
Concentration per Run 3	16.581 ppb	131.550 %	130.311 %	4.298 ppb	2.711 ppb	135.795 %
Concentration RSD	94.3 %	41.5 %	40.4 %	86.2 %	96.9 %	44.6 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 63 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: xL2343188-01 6020TL Rack: 2
 Analysis started at: 8/9/2023 10:12:42 PM Vial: 57

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	5.692 %	75.088 %	0.534 ppb	3,253,341.225 ppb	812,747.529 ppb	1,571,937 ppb	241,397.301 ppb	3,362,704.961 ppb	11.500 %
Concentration per Run 1	5.703 %	202.320 %	0.474 ppb	40,023.855 ppb	10,186.482 ppb	17.867 ppb	2,292.209 ppb	29,617.093 ppb	11.640 %
Concentration per Run 2	5.682 %	19.119 %	0.535 ppb	1,457,160.621 ppb	357,199.414 ppb	695.928 ppb	97,785.584 ppb	1,257,894.939 ppb	11.450 %
Concentration per Run 3	5.691 %	3.824 %	0.592 ppb	8,262,839.200 ppb	2,070,856.691 ppb	4,002.017 ppb	624,114.109 ppb	8,800,602.849 ppb	11.410 %
Concentration RSD	0.2 %	147.1 %	11.1 %	135.1 %	135.7 %	135.6 %	138.7 %	141.2 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	24.255 ppb	10.545 ppb	33,308.800 ppb	224,578.395 ppb	9.741 ppb	75.467 ppb	223.357 ppb	130.346 ppb	76.908 %
Concentration per Run 1	0.106 ppb	0.049 ppb	220.297 ppb	1,462.000 ppb	0.076 ppb	0.329 ppb	1.108 ppb	0.444 ppb	218.621 %
Concentration per Run 2	6.610 ppb	3.337 ppb	10,447.133 ppb	66,618.955 ppb	2.922 ppb	19.820 ppb	53.274 ppb	32.661 ppb	11.384 %
Concentration per Run 3	66.051 ppb	28.250 ppb	89,258.971 ppb	605,654.230 ppb	26.225 ppb	206.252 ppb	615.689 ppb	357.932 ppb	0.720 %
Concentration RSD	149.8 %	146.2 %	146.3 %	147.7 %	147.3 %	150.6 %	152.6 %	151.7 %	159.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	102.833 ppb	15.497 ppb	227,269.003 ppb	128.241 ppb	71.762 %	0.640 ppb	0.759 ppb	72.073 %	22.790 ppb
Concentration per Run 1	0.294 ppb	0.044 ppb	492.157 ppb	0.295 ppb	205.271 %	0.000 ppb	0.004 ppb	205.516 %	0.106 ppb
Concentration per Run 2	15.732 ppb	2.321 ppb	30,099.491 ppb	11.387 ppb	9.814 %	0.029 ppb	0.031 ppb	10.441 %	1.901 ppb
Concentration per Run 3	292.472 ppb	44.127 ppb	651,215.363 ppb	373.041 ppb	0.201 %	1.890 ppb	2.242 ppb	0.262 %	66.365 ppb
Concentration RSD	159.9 %	160.2 %	161.7 %	165.4 %	161.3 %	169.2 %	169.2 %	160.5 %	165.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	414,308.321 ppb	79.204 %	79.308 %	12.590 ppb	12.619 ppb	76.241 %
Concentration per Run 1	547.361 ppb	226.291 %	225.758 %	-0.003 ppb	0.029 ppb	218.775 %
Concentration per Run 2	32,393.242 ppb	11.022 %	11.331 %	1.632 ppb	1.683 ppb	9.498 %
Concentration per Run 3	1,209,984.359 ppb	0.298 %	0.834 %	36.142 ppb	36.145 ppb	0.450 %
Concentration RSD	166.4 %	161.0 %	160.1 %	162.1 %	161.6 %	162.0 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 64 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: wg1809144-5D10 6020TL Rack: 2
 Analysis started at: 8/9/2023 10:20:22 PM Vial: 60

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.750 %	106.141 %	49.508 ppb	23,362.293 ppb	9,705.798 ppb	58.620 ppb	5,968.490 ppb	19,614.836 ppb	108.855 %
Concentration per Run 1	105.254 %	106.026 %	49.645 ppb	23,595.701 ppb	9,736.184 ppb	57.198 ppb	5,942.739 ppb	19,563.169 ppb	109.559 %
Concentration per Run 2	104.856 %	114.716 %	50.042 ppb	21,927.194 ppb	9,141.456 ppb	60.119 ppb	5,704.045 ppb	18,775.079 ppb	108.350 %
Concentration per Run 3	104.140 %	97.682 %	48.837 ppb	24,563.983 ppb	10,239.754 ppb	58.543 ppb	6,258.684 ppb	20,506.261 ppb	108.657 %
Concentration RSD	0.5 %	8.0 %	1.2 %	5.7 %	5.7 %	2.5 %	4.7 %	4.4 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	50.339 ppb	50.469 ppb	159.298 ppb	5,725.030 ppb	49.674 ppb	49.898 ppb	50.619 ppb	50.150 ppb	105.540 %
Concentration per Run 1	49.378 ppb	50.576 ppb	161.397 ppb	5,784.399 ppb	49.531 ppb	49.230 ppb	49.871 ppb	50.103 ppb	104.235 %
Concentration per Run 2	49.070 ppb	49.402 ppb	155.634 ppb	5,666.005 ppb	48.869 ppb	49.261 ppb	50.594 ppb	49.327 ppb	106.203 %
Concentration per Run 3	52.568 ppb	51.427 ppb	160.862 ppb	5,724.686 ppb	50.622 ppb	51.204 ppb	51.393 ppb	51.019 ppb	106.181 %
Concentration RSD	3.8 %	2.0 %	2.0 %	1.0 %	1.8 %	2.3 %	1.5 %	1.7 %	1.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	50.349 ppb	49.366 ppb	276.813 ppb	51.567 ppb	99.747 %	1.708 ppb	49.081 ppb	102.282 %	49.834 ppb
Concentration per Run 1	49.203 ppb	48.647 ppb	274.779 ppb	50.134 ppb	99.447 %	1.635 ppb	48.248 ppb	101.814 %	48.569 ppb
Concentration per Run 2	50.845 ppb	49.282 ppb	277.882 ppb	52.187 ppb	98.557 %	1.753 ppb	49.450 ppb	101.462 %	51.237 ppb
Concentration per Run 3	50.998 ppb	50.170 ppb	277.778 ppb	52.379 ppb	101.236 %	1.737 ppb	49.545 ppb	103.571 %	49.695 ppb
Concentration RSD	2.0 %	1.5 %	0.6 %	2.4 %	1.4 %	3.7 %	1.5 %	1.1 %	2.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	295.545 ppb	106.625 %	105.937 %	50.555 ppb	50.492 ppb	97.657 %
Concentration per Run 1	293.164 ppb	104.219 %	104.397 %	47.955 ppb	49.580 ppb	95.242 %
Concentration per Run 2	296.072 ppb	106.612 %	105.847 %	51.966 ppb	51.083 ppb	96.519 %
Concentration per Run 3	297.400 ppb	109.044 %	107.566 %	51.744 ppb	50.813 ppb	101.208 %
Concentration RSD	0.7 %	2.3 %	1.5 %	4.5 %	1.6 %	3.2 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 65 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: wg1809144-4 6020TL Rack: 2
 Analysis started at: 8/9/2023 10:24:52 PM Vial: 59

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	110.989 %	106.837 %	0.019 ppb	195,056.827 ppb	47,404.428 ppb	82.566 ppb	11,242.318 ppb	143,163.066 ppb	113.069 %
Concentration per Run 1	112.635 %	94.554 %	0.017 ppb	200,113.297 ppb	47,715.988 ppb	84.238 ppb	11,204.072 ppb	141,480.372 ppb	114.090 %
Concentration per Run 2	111.042 %	107.068 %	0.022 ppb	198,230.421 ppb	48,710.659 ppb	85.047 ppb	11,681.052 ppb	148,168.522 ppb	113.349 %
Concentration per Run 3	109.290 %	118.888 %	0.019 ppb	186,826.761 ppb	45,786.636 ppb	78.412 ppb	10,841.830 ppb	139,840.304 ppb	111.767 %
Concentration RSD	1.5 %	11.4 %	13.5 %	3.7 %	3.1 %	4.4 %	3.7 %	3.1 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.661 ppb	0.320 ppb	1,098.881 ppb	7,160.443 ppb	0.364 ppb	1.860 ppb	4.793 ppb	2.712 ppb	100.982 %
Concentration per Run 1	0.718 ppb	0.340 ppb	1,098.535 ppb	7,176.333 ppb	0.365 ppb	1.742 ppb	4.863 ppb	2.594 ppb	97.809 %
Concentration per Run 2	0.585 ppb	0.291 ppb	1,120.652 ppb	7,292.492 ppb	0.376 ppb	1.940 ppb	4.820 ppb	2.767 ppb	101.951 %
Concentration per Run 3	0.681 ppb	0.330 ppb	1,077.457 ppb	7,012.505 ppb	0.350 ppb	1.898 ppb	4.698 ppb	2.775 ppb	103.188 %
Concentration RSD	10.4 %	8.0 %	2.0 %	2.0 %	3.6 %	5.6 %	1.8 %	3.8 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.616 ppb	0.196 ppb	2,465.195 ppb	1.106 ppb	92.034 %	0.003 ppb	0.001 ppb	98.414 %	0.110 ppb
Concentration per Run 1	1.615 ppb	0.151 ppb	2,430.828 ppb	1.124 ppb	90.209 %	0.005 ppb	-0.001 ppb	96.075 %	0.103 ppb
Concentration per Run 2	1.628 ppb	0.200 ppb	2,470.645 ppb	1.023 ppb	93.319 %	0.002 ppb	0.003 ppb	98.698 %	0.120 ppb
Concentration per Run 3	1.605 ppb	0.236 ppb	2,494.113 ppb	1.173 ppb	92.575 %	0.002 ppb	0.001 ppb	100.469 %	0.108 ppb
Concentration RSD	0.7 %	21.8 %	1.3 %	6.9 %	1.8 %	61.9 %	196.1 %	2.2 %	7.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2,608.006 ppb	102.141 %	102.131 %	0.323 ppb	0.143 ppb	84.043 %
Concentration per Run 1	2,589.973 ppb	98.553 %	97.635 %	0.337 ppb	0.147 ppb	78.212 %
Concentration per Run 2	2,590.144 ppb	102.775 %	102.074 %	0.364 ppb	0.139 ppb	85.267 %
Concentration per Run 3	2,643.900 ppb	105.094 %	106.685 %	0.269 ppb	0.144 ppb	88.649 %
Concentration RSD	1.2 %	3.2 %	4.4 %	15.1 %	2.7 %	6.3 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 66 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343188-01 6020TL Rack 2
 Analysis started at: 8/9/2023 10:29:22 PM Vial 57

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.934 %	100.579 %	0.017 ppb	202,587.329 ppb	48,970.298 ppb	90.475 ppb	11,308.767 ppb	145,824.166 ppb	109.374 %
Concentration per Run 1	106.833 %	95.597 %	0.017 ppb	196,065.645 ppb	46,978.834 ppb	82.415 ppb	10,892.232 ppb	140,852.091 ppb	109.917 %
Concentration per Run 2	105.438 %	102.897 %	0.017 ppb	204,719.840 ppb	49,833.429 ppb	95.267 ppb	11,562.800 ppb	147,826.381 ppb	109.293 %
Concentration per Run 3	105.533 %	103.245 %	0.019 ppb	206,976.500 ppb	50,098.631 ppb	93.742 ppb	11,471.270 ppb	148,794.025 ppb	108.914 %
Concentration RSD	0.7 %	4.3 %	6.2 %	2.8 %	3.5 %	7.8 %	3.2 %	3.0 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.728 ppb	0.369 ppb	1,121.507 ppb	7,301.381 ppb	0.360 ppb	2.065 ppb	5.715 ppb	2.844 ppb	97.066 %
Concentration per Run 1	0.720 ppb	0.381 ppb	1,104.838 ppb	7,185.426 ppb	0.364 ppb	1.993 ppb	5.840 ppb	2.910 ppb	90.268 %
Concentration per Run 2	0.587 ppb	0.356 ppb	1,119.336 ppb	7,395.684 ppb	0.351 ppb	2.043 ppb	5.721 ppb	2.839 ppb	99.411 %
Concentration per Run 3	0.877 ppb	0.369 ppb	1,140.346 ppb	7,323.033 ppb	0.364 ppb	2.160 ppb	5.583 ppb	2.784 ppb	101.518 %
Concentration RSD	19.9 %	3.4 %	1.6 %	1.5 %	2.1 %	4.1 %	2.2 %	2.2 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.813 ppb	0.137 ppb	2,448.474 ppb	1.004 ppb	89.752 %	0.004 ppb	0.000 ppb	94.713 %	0.092 ppb
Concentration per Run 1	1.894 ppb	0.142 ppb	2,427.641 ppb	1.075 ppb	87.296 %	0.003 ppb	0.001 ppb	91.957 %	0.087 ppb
Concentration per Run 2	1.709 ppb	0.172 ppb	2,466.234 ppb	0.923 ppb	89.742 %	0.004 ppb	0.000 ppb	95.623 %	0.081 ppb
Concentration per Run 3	1.836 ppb	0.097 ppb	2,451.547 ppb	1.014 ppb	92.219 %	0.005 ppb	0.000 ppb	96.560 %	0.108 ppb
Concentration RSD	5.2 %	27.4 %	0.8 %	7.6 %	2.7 %	29.9 %	151.6 %	2.6 %	15.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2,610.107 ppb	98.490 %	98.251 %	0.066 ppb	0.150 ppb	81.636 %
Concentration per Run 1	2,543.431 ppb	94.267 %	92.759 %	0.039 ppb	0.147 ppb	77.208 %
Concentration per Run 2	2,650.795 ppb	98.766 %	99.207 %	0.082 ppb	0.155 ppb	82.382 %
Concentration per Run 3	2,636.094 ppb	102.438 %	102.788 %	0.076 ppb	0.148 ppb	85.318 %
Concentration RSD	2.2 %	4.2 %	5.2 %	35.6 %	2.7 %	5.0 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 67 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: wg1809144-6D5 6020TL Rack 3
 Analysis started at: 8/9/2023 10:33:52 PM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.020 %	90.962 %	-0.001 ppb	42,546.812 ppb	10,536.254 ppb	19.834 ppb	2,376.532 ppb	31,275.601 ppb	106.103 %
Concentration per Run 1	102.237 %	86.558 %	-0.001 ppb	42,348.927 ppb	10,385.127 ppb	21.260 ppb	2,243.480 ppb	29,897.425 ppb	107.141 %
Concentration per Run 2	102.495 %	93.859 %	0.001 ppb	42,369.596 ppb	10,501.636 ppb	18.556 ppb	2,438.207 ppb	31,853.645 ppb	104.704 %
Concentration per Run 3	101.328 %	92.468 %	-0.003 ppb	42,921.913 ppb	10,721.998 ppb	19.685 ppb	2,447.909 ppb	32,075.734 ppb	106.464 %
Concentration RSD	0.6 %	4.3 %	181.0 %	0.8 %	1.6 %	6.8 %	4.9 %	3.8 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.137 ppb	0.085 ppb	221.899 ppb	1,468.104 ppb	0.082 ppb	0.419 ppb	1.246 ppb	1.193 ppb	100.200 %
Concentration per Run 1	0.160 ppb	0.051 ppb	218.915 ppb	1,426.892 ppb	0.085 ppb	0.421 ppb	1.243 ppb	1.243 ppb	94.184 %
Concentration per Run 2	0.142 ppb	0.099 ppb	222.932 ppb	1,485.513 ppb	0.083 ppb	0.464 ppb	1.317 ppb	1.204 ppb	102.569 %
Concentration per Run 3	0.108 ppb	0.106 ppb	223.851 ppb	1,491.908 ppb	0.077 ppb	0.373 ppb	1.177 ppb	1.131 ppb	103.847 %
Concentration RSD	19.3 %	35.1 %	1.2 %	2.4 %	4.8 %	10.7 %	5.6 %	4.8 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.321 ppb	0.005 ppb	459.998 ppb	0.181 ppb	95.785 %	0.001 ppb	0.002 ppb	98.457 %	0.030 ppb
Concentration per Run 1	0.325 ppb	0.015 ppb	457.241 ppb	0.170 ppb	95.376 %	0.001 ppb	0.001 ppb	97.367 %	0.026 ppb
Concentration per Run 2	0.298 ppb	0.009 ppb	463.313 ppb	0.169 ppb	95.542 %	0.000 ppb	0.002 ppb	97.369 %	0.026 ppb
Concentration per Run 3	0.339 ppb	-0.010 ppb	459.439 ppb	0.204 ppb	96.438 %	0.002 ppb	0.002 ppb	100.636 %	0.038 ppb
Concentration RSD	6.5 %	277.2 %	0.7 %	11.0 %	0.6 %	89.3 %	33.3 %	1.9 %	23.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	496.939 ppb	102.174 %	101.058 %	0.010 ppb	0.027 ppb	90.255 %
Concentration per Run 1	486.868 ppb	99.290 %	97.926 %	-0.006 ppb	0.025 ppb	88.128 %
Concentration per Run 2	496.375 ppb	102.810 %	101.192 %	0.025 ppb	0.029 ppb	90.042 %
Concentration per Run 3	507.573 ppb	104.423 %	104.056 %	0.013 ppb	0.028 ppb	92.596 %
Concentration RSD	2.1 %	2.6 %	3.0 %	152.0 %	8.4 %	2.5 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 68 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/9/2023 10:38:22 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.111 %	101.275 %	58.637 ppb	5,676.840 ppb	5,688.378 ppb	56.125 ppb	5,569.777 ppb	5,632.415 ppb	103.600 %
Concentration per Run 1	100.543 %	105.330 %	58.254 ppb	5,254.597 ppb	5,200.662 ppb	50.299 ppb	5,274.471 ppb	5,408.581 ppb	105.007 %
Concentration per Run 2	100.183 %	99.768 %	59.359 ppb	5,843.298 ppb	5,912.263 ppb	60.790 ppb	5,685.264 ppb	5,694.098 ppb	103.220 %
Concentration per Run 3	99.608 %	98.725 %	58.297 ppb	5,932.624 ppb	5,952.208 ppb	57.285 ppb	5,749.596 ppb	5,794.565 ppb	102.574 %
Recovery Percentage 1			97.728 %	94.614 %	94.806 %	93.542 %	92.830 %	93.874 %	
Concentration RSD	0.5 %	3.5 %	1.1 %	6.5 %	7.4 %	9.5 %	4.6 %	3.6 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.786 ppb	59.371 ppb	59.241 ppb	5,878.671 ppb	59.353 ppb	59.107 ppb	60.106 ppb	61.016 ppb	99.703 %
Concentration per Run 1	54.050 ppb	55.794 ppb	56.573 ppb	5,561.565 ppb	57.179 ppb	56.069 ppb	58.344 ppb	58.291 ppb	100.513 %
Concentration per Run 2	60.048 ppb	61.435 ppb	60.459 ppb	6,099.411 ppb	61.086 ppb	60.454 ppb	62.633 ppb	63.140 ppb	98.502 %
Concentration per Run 3	59.259 ppb	60.884 ppb	60.692 ppb	5,975.036 ppb	59.793 ppb	60.799 ppb	59.342 ppb	61.618 ppb	100.092 %
Recovery Percentage 1	96.309 %	98.951 %	98.736 %	97.978 %	98.921 %	98.512 %	100.177 %	101.694 %	
Concentration RSD	5.6 %	5.2 %	3.9 %	4.8 %	3.4 %	4.5 %	3.7 %	4.1 %	1.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.954 ppb	59.179 ppb	57.994 ppb	58.005 ppb	95.880 %	59.343 ppb	59.118 ppb	95.800 %	58.440 ppb
Concentration per Run 1	58.715 ppb	55.579 ppb	56.412 ppb	56.383 ppb	94.522 %	58.548 ppb	58.069 ppb	91.609 %	56.265 ppb
Concentration per Run 2	60.484 ppb	60.205 ppb	58.960 ppb	58.490 ppb	96.371 %	59.528 ppb	59.315 ppb	97.853 %	59.076 ppb
Concentration per Run 3	60.662 ppb	61.753 ppb	58.610 ppb	59.143 ppb	96.749 %	59.954 ppb	59.971 ppb	97.938 %	59.977 ppb
Recovery Percentage 1	99.923 %	98.632 %	96.657 %	96.675 %		98.905 %	98.530 %		97.400 %
Concentration RSD	1.8 %	5.4 %	2.4 %	2.5 %	1.2 %	1.2 %	1.6 %	3.8 %	3.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.373 ppb	98.341 %	97.252 %	59.104 ppb	58.323 ppb	93.645 %
Concentration per Run 1	55.876 ppb	91.473 %	90.327 %	56.926 ppb	57.685 ppb	88.091 %
Concentration per Run 2	59.780 ppb	101.595 %	100.784 %	59.624 ppb	58.571 ppb	95.155 %
Concentration per Run 3	59.462 ppb	101.953 %	100.644 %	60.762 ppb	58.715 ppb	97.689 %
Recovery Percentage 1	97.288 %			98.506 %	97.206 %	
Concentration RSD	3.7 %	6.1 %	6.2 %	3.3 %	1.0 %	5.3 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 69 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/9/2023 10:42:55 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.302 %	95.828 %	-0.002 ppb	16.765 ppb	0.603 ppb	-0.721 ppb	2.275 ppb	12.102 ppb	102.735 %
Concentration per Run 1	105.264 %	91.773 %	-0.006 ppb	17.451 ppb	0.946 ppb	-0.512 ppb	2.135 ppb	10.097 ppb	103.043 %
Concentration per Run 2	104.605 %	102.897 %	0.002 ppb	16.695 ppb	1.250 ppb	-1.020 ppb	0.484 ppb	16.561 ppb	102.950 %
Concentration per Run 3	103.036 %	92.816 %	-0.003 ppb	16.149 ppb	-0.386 ppb	-0.632 ppb	4.205 ppb	9.648 ppb	102.214 %
Recovery Percentage 1			-0.458 %	16.765 %	0.862 %	-7.212 %	2.275 %	12.102 %	
Concentration RSD	1.1 %	6.4 %	186.9 %	3.9 %	144.3 %	36.8 %	82.0 %	32.0 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.027 ppb	0.001 ppb	0.176 ppb	10.217 ppb	0.001 ppb	0.030 ppb	0.071 ppb	0.344 ppb	98.002 %
Concentration per Run 1	-0.035 ppb	0.002 ppb	0.119 ppb	10.012 ppb	0.003 ppb	0.024 ppb	0.069 ppb	0.265 ppb	94.595 %
Concentration per Run 2	-0.019 ppb	-0.008 ppb	0.182 ppb	9.638 ppb	0.002 ppb	0.062 ppb	0.049 ppb	0.457 ppb	97.129 %
Concentration per Run 3	-0.028 ppb	0.010 ppb	0.227 ppb	11.001 ppb	-0.002 ppb	0.006 ppb	0.095 ppb	0.308 ppb	102.281 %
Recovery Percentage 1	-0.546 %	0.108 %	17.572 %	20.434 %	0.184 %	1.522 %	7.096 %	6.870 %	
Concentration RSD	29.5 %	814.2 %	30.8 %	6.9 %	311.3 %	93.6 %	32.8 %	29.4 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.005 ppb	0.031 ppb	0.145 ppb	0.134 ppb	101.583 %	0.004 ppb	0.001 ppb	100.608 %	0.048 ppb
Concentration per Run 1	-0.002 ppb	0.044 ppb	0.157 ppb	0.123 ppb	100.194 %	0.004 ppb	0.001 ppb	97.774 %	0.041 ppb
Concentration per Run 2	0.015 ppb	0.037 ppb	0.142 ppb	0.172 ppb	100.721 %	0.005 ppb	0.001 ppb	101.022 %	0.046 ppb
Concentration per Run 3	0.001 ppb	0.011 ppb	0.136 ppb	0.109 ppb	103.835 %	0.002 ppb	0.001 ppb	103.029 %	0.056 ppb
Recovery Percentage 1	0.986 %	0.618 %	1.450 %	6.725 %		0.973 %	0.529 %		1.194 %
Concentration RSD	183.7 %	55.7 %	7.5 %	24.5 %	1.9 %	45.8 %	4.7 %	2.6 %	15.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.179 ppb	103.169 %	102.151 %	0.323 ppb	0.006 ppb	101.538 %
Concentration per Run 1	0.174 ppb	100.650 %	99.992 %	0.317 ppb	0.007 ppb	99.413 %
Concentration per Run 2	0.197 ppb	103.453 %	102.366 %	0.374 ppb	0.007 ppb	100.125 %
Concentration per Run 3	0.165 ppb	105.404 %	104.094 %	0.278 ppb	0.004 ppb	105.077 %
Recovery Percentage 1	35.731 %			32.286 %	0.606 %	
Concentration RSD	9.3 %	2.3 %	2.0 %	15.1 %	28.1 %	3.0 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 70 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343188-02 6020TL Rack 3
 Analysis started at: 8/9/2023 10:47:28 PM Vial 2

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.846 %	84.357 %	-0.004 ppb	301,976.563 ppb	25,746.229 ppb	25.539 ppb	10,998.595 ppb	105,060.157 ppb	104.765 %
Concentration per Run 1	101.610 %	87.601 %	-0.004 ppb	281,846.628 ppb	24,021.270 ppb	20.616 ppb	10,365.568 ppb	99,301.251 ppb	105.118 %
Concentration per Run 2	100.750 %	85.863 %	-0.006 ppb	298,288.846 ppb	25,356.462 ppb	26.542 ppb	10,900.347 ppb	104,627.003 ppb	104.949 %
Concentration per Run 3	100.178 %	79.606 %	-0.002 ppb	325,794.217 ppb	27,860.955 ppb	29.459 ppb	11,729.871 ppb	111,252.218 ppb	104.227 %
Concentration RSD	0.7 %	5.0 %	42.1 %	7.4 %	7.6 %	17.6 %	6.3 %	5.7 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.301 ppb	0.236 ppb	596.096 ppb	2,076.962 ppb	0.409 ppb	1.764 ppb	1.007 ppb	1.327 ppb	90.486 %
Concentration per Run 1	0.225 ppb	0.229 ppb	559.854 ppb	1,979.170 ppb	0.366 ppb	1.749 ppb	1.009 ppb	1.369 ppb	88.576 %
Concentration per Run 2	0.376 ppb	0.236 ppb	600.779 ppb	2,071.664 ppb	0.415 ppb	1.736 ppb	1.048 ppb	1.299 ppb	90.390 %
Concentration per Run 3	0.303 ppb	0.243 ppb	627.655 ppb	2,180.050 ppb	0.446 ppb	1.806 ppb	0.964 ppb	1.314 ppb	92.492 %
Concentration RSD	25.0 %	3.0 %	5.7 %	4.8 %	9.8 %	2.1 %	4.2 %	2.8 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.783 ppb	0.130 ppb	744.808 ppb	2.875 ppb	83.487 %	0.005 ppb	0.006 ppb	87.501 %	0.389 ppb
Concentration per Run 1	3.720 ppb	0.178 ppb	702.241 ppb	2.854 ppb	78.324 %	0.008 ppb	0.008 ppb	80.572 %	0.388 ppb
Concentration per Run 2	3.882 ppb	0.173 ppb	760.951 ppb	2.859 ppb	84.584 %	0.004 ppb	0.008 ppb	89.113 %	0.392 ppb
Concentration per Run 3	3.746 ppb	0.038 ppb	771.233 ppb	2.913 ppb	87.552 %	0.004 ppb	0.001 ppb	92.820 %	0.388 ppb
Concentration RSD	2.3 %	61.5 %	5.0 %	1.1 %	5.6 %	48.4 %	67.6 %	7.2 %	0.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	224.985 ppb	95.027 %	94.612 %	0.066 ppb	0.371 ppb	79.648 %
Concentration per Run 1	219.690 ppb	87.693 %	86.212 %	0.039 ppb	0.359 ppb	74.010 %
Concentration per Run 2	230.631 ppb	98.240 %	97.433 %	0.087 ppb	0.373 ppb	80.844 %
Concentration per Run 3	224.634 ppb	99.148 %	100.193 %	0.073 ppb	0.379 ppb	84.089 %
Concentration RSD	2.4 %	6.7 %	7.8 %	37.4 %	2.9 %	6.5 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 71 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343188-03 6020TL Rack 3
 Analysis started at: 8/9/2023 10:51:58 PM Vial 3

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.405 %	91.773 %	0.000 ppb	508,189.033 ppb	199.707 ppb	2,246.185 ppb	49,464.848 ppb	52,773.589 ppb	105.748 %
Concentration per Run 1	102.032 %	91.425 %	-0.004 ppb	489,329.074 ppb	203.870 ppb	2,147.007 ppb	47,099.143 ppb	50,194.939 ppb	105.887 %
Concentration per Run 2	102.895 %	90.382 %	-0.003 ppb	512,419.422 ppb	199.288 ppb	2,235.446 ppb	49,439.740 ppb	52,993.414 ppb	106.231 %
Concentration per Run 3	102.287 %	93.511 %	0.008 ppb	522,818.604 ppb	195.964 ppb	2,356.103 ppb	51,855.661 ppb	55,132.415 ppb	105.126 %
Concentration RSD	0.4 %	1.7 %	3,406.7 %	3.4 %	2.0 %	4.7 %	4.8 %	4.7 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.468 ppb	3.337 ppb	9.397 ppb	371.359 ppb	0.667 ppb	2.740 ppb	33.714 ppb	2.219 ppb	88.795 %
Concentration per Run 1	47.401 ppb	3.169 ppb	8.695 ppb	366.386 ppb	0.604 ppb	2.607 ppb	32.694 ppb	2.071 ppb	86.367 %
Concentration per Run 2	49.155 ppb	3.300 ppb	9.482 ppb	368.269 ppb	0.693 ppb	2.928 ppb	34.260 ppb	2.297 ppb	89.808 %
Concentration per Run 3	51.849 ppb	3.543 ppb	10.014 ppb	379.423 ppb	0.704 ppb	2.685 ppb	34.188 ppb	2.289 ppb	90.210 %
Concentration RSD	4.5 %	5.7 %	7.1 %	1.9 %	8.2 %	6.1 %	2.6 %	5.8 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.750 ppb	2.814 ppb	1,038.723 ppb	59.895 ppb	80.387 %	0.003 ppb	0.014 ppb	84.873 %	0.550 ppb
Concentration per Run 1	3.434 ppb	2.463 ppb	1,018.609 ppb	58.195 ppb	79.378 %	0.002 ppb	0.012 ppb	84.378 %	0.574 ppb
Concentration per Run 2	3.708 ppb	3.112 ppb	1,020.518 ppb	60.093 ppb	78.277 %	0.004 ppb	0.015 ppb	80.895 %	0.542 ppb
Concentration per Run 3	4.107 ppb	2.868 ppb	1,077.041 ppb	61.397 ppb	83.507 %	0.003 ppb	0.014 ppb	89.346 %	0.533 ppb
Concentration RSD	9.0 %	11.7 %	3.2 %	2.7 %	3.4 %	28.2 %	11.6 %	5.0 %	3.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	66.601 ppb	90.162 %	89.031 %	0.037 ppb	0.097 ppb	75.287 %
Concentration per Run 1	64.703 ppb	88.137 %	86.912 %	0.021 ppb	0.096 ppb	73.161 %
Concentration per Run 2	67.201 ppb	87.511 %	86.017 %	0.044 ppb	0.097 ppb	73.159 %
Concentration per Run 3	67.898 ppb	94.838 %	94.164 %	0.045 ppb	0.100 ppb	79.541 %
Concentration RSD	2.5 %	4.5 %	5.0 %	36.5 %	2.1 %	4.9 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 72 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343188-04 6020TL Rack 3
 Analysis started at: 8/9/2023 10:56:29 PM Vial 4

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.346 %	109.734 %	0.012 ppb	153,295.221 ppb	58,302.017 ppb	166.891 ppb	5,888.573 ppb	174,540.019 ppb	111.505 %
Concentration per Run 1	109.161 %	117.150 %	0.008 ppb	142,420.271 ppb	53,520.266 ppb	154.935 ppb	5,617.672 ppb	166,036.158 ppb	114.141 %
Concentration per Run 2	107.972 %	102.897 %	0.020 ppb	158,925.925 ppb	61,503.571 ppb	174.804 ppb	6,072.686 ppb	180,259.877 ppb	110.756 %
Concentration per Run 3	104.906 %	109.154 %	0.007 ppb	158,539.467 ppb	59,882.213 ppb	170.935 ppb	5,975.362 ppb	177,324.023 ppb	109.619 %
Concentration RSD	2.0 %	6.5 %	60.8 %	6.1 %	7.2 %	6.3 %	4.1 %	4.3 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.408 ppb	0.390 ppb	4,783.035 ppb	11,303.207 ppb	3.613 ppb	5.670 ppb	2.952 ppb	27.600 ppb	99.616 %
Concentration per Run 1	0.364 ppb	0.343 ppb	4,454.079 ppb	10,491.541 ppb	3.432 ppb	5.575 ppb	2.777 ppb	26.377 ppb	99.612 %
Concentration per Run 2	0.415 ppb	0.434 ppb	5,045.428 ppb	11,970.221 ppb	3.757 ppb	5.951 ppb	3.093 ppb	29.126 ppb	95.088 %
Concentration per Run 3	0.443 ppb	0.393 ppb	4,849.598 ppb	11,447.860 ppb	3.650 ppb	5.486 ppb	2.986 ppb	27.296 ppb	104.146 %
Concentration RSD	9.8 %	11.7 %	6.3 %	6.6 %	4.6 %	4.4 %	5.4 %	5.1 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	55.090 ppb	0.104 ppb	2,239.643 ppb	1.652 ppb	90.791 %	0.002 ppb	0.004 ppb	92.929 %	0.075 ppb
Concentration per Run 1	53.211 ppb	0.067 ppb	2,144.396 ppb	1.572 ppb	89.761 %	0.003 ppb	0.002 ppb	92.574 %	0.064 ppb
Concentration per Run 2	57.587 ppb	0.223 ppb	2,333.692 ppb	1.638 ppb	88.467 %	0.002 ppb	0.005 ppb	88.952 %	0.080 ppb
Concentration per Run 3	54.472 ppb	0.022 ppb	2,240.843 ppb	1.745 ppb	94.144 %	0.002 ppb	0.006 ppb	97.261 %	0.082 ppb
Concentration RSD	4.1 %	101.3 %	4.2 %	5.3 %	3.3 %	31.3 %	38.7 %	4.5 %	13.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1,749.898 ppb	96.286 %	94.820 %	0.004 ppb	0.220 ppb	80.031 %
Concentration per Run 1	1,706.218 ppb	94.689 %	93.007 %	-0.009 ppb	0.210 ppb	77.664 %
Concentration per Run 2	1,751.998 ppb	92.879 %	91.248 %	0.010 ppb	0.225 ppb	77.383 %
Concentration per Run 3	1,791.477 ppb	101.289 %	100.206 %	0.010 ppb	0.224 ppb	85.044 %
Concentration RSD	2.4 %	4.6 %	5.0 %	296.5 %	3.8 %	5.4 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 73 User name ALPHALAB\la2-icpmsq Comment <Comment>
 Analysis label: L2343527-01 6020TL Rack 3
 Analysis started at: 8/9/2023 11:00:59 PM Vial 5

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.461 %	95.713 %	0.006 ppb	261,771.232 ppb	53,191.245 ppb	34.694 ppb	14,653.533 ppb	150,453.918 ppb	109.689 %
Concentration per Run 1	107.094 %	92.120 %	0.005 ppb	260,484.933 ppb	52,618.840 ppb	31.485 ppb	14,684.470 ppb	147,437.136 ppb	110.905 %
Concentration per Run 2	106.726 %	104.287 %	-0.002 ppb	246,111.792 ppb	50,248.022 ppb	36.631 ppb	14,094.420 ppb	146,885.550 ppb	109.309 %
Concentration per Run 3	105.564 %	90.730 %	0.014 ppb	278,716.969 ppb	56,706.871 ppb	35.965 ppb	15,181.710 ppb	157,039.068 ppb	108.854 %
Concentration RSD	0.8 %	7.8 %	132.9 %	6.2 %	6.1 %	8.1 %	3.7 %	3.8 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.006 ppb	0.399 ppb	631.023 ppb	22,038.509 ppb	0.246 ppb	3.494 ppb	1.841 ppb	5.869 ppb	98.571 %
Concentration per Run 1	0.934 ppb	0.360 ppb	613.991 ppb	21,607.668 ppb	0.211 ppb	3.363 ppb	1.807 ppb	5.645 ppb	98.236 %
Concentration per Run 2	1.089 ppb	0.419 ppb	619.950 ppb	21,934.337 ppb	0.258 ppb	3.240 ppb	1.882 ppb	5.803 ppb	98.211 %
Concentration per Run 3	0.994 ppb	0.418 ppb	659.130 ppb	22,573.520 ppb	0.269 ppb	3.880 ppb	1.833 ppb	6.158 ppb	99.267 %
Concentration RSD	7.7 %	8.5 %	3.9 %	2.2 %	12.4 %	9.7 %	2.1 %	4.5 %	0.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	9.612 ppb	0.095 ppb	2,059.094 ppb	2.833 ppb	88.092 %	0.002 ppb	0.001 ppb	91.766 %	0.126 ppb
Concentration per Run 1	9.302 ppb	0.142 ppb	2,039.338 ppb	2.729 ppb	87.229 %	0.002 ppb	0.000 ppb	90.718 %	0.132 ppb
Concentration per Run 2	9.743 ppb	0.060 ppb	1,991.665 ppb	2.922 ppb	86.341 %	0.001 ppb	-0.001 ppb	89.405 %	0.115 ppb
Concentration per Run 3	9.790 ppb	0.082 ppb	2,146.279 ppb	2.848 ppb	90.706 %	0.004 ppb	0.004 ppb	95.174 %	0.131 ppb
Concentration RSD	2.8 %	44.6 %	3.8 %	3.4 %	2.6 %	67.3 %	280.1 %	3.3 %	7.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2,112.414 ppb	95.253 %	93.934 %	-0.006 ppb	0.134 ppb	77.569 %
Concentration per Run 1	2,082.009 ppb	91.646 %	90.214 %	-0.019 ppb	0.128 ppb	74.574 %
Concentration per Run 2	2,107.342 ppb	95.085 %	92.683 %	0.000 ppb	0.135 ppb	77.372 %
Concentration per Run 3	2,147.890 ppb	99.029 %	98.906 %	0.000 ppb	0.140 ppb	80.762 %
Concentration RSD	1.6 %	3.9 %	4.8 %	183.4 %	4.6 %	4.0 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 74 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343527-02 6020TL Rack 3
 Analysis started at: 8/9/2023 11:05:29 PM Vial 6

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.096 %	100.348 %	0.009 ppb	207,894.301 ppb	65,093.028 ppb	127.197 ppb	18,710.198 ppb	226,456.629 ppb	112.640 %
Concentration per Run 1	105.200 %	93.511 %	0.015 ppb	212,998.971 ppb	65,634.535 ppb	131.703 ppb	18,986.522 ppb	227,565.570 ppb	114.522 %
Concentration per Run 2	103.987 %	103.245 %	0.004 ppb	206,328.809 ppb	65,656.542 ppb	128.641 ppb	18,150.768 ppb	221,720.206 ppb	112.541 %
Concentration per Run 3	103.101 %	104.287 %	0.007 ppb	204,355.123 ppb	63,988.007 ppb	121.248 ppb	18,993.303 ppb	230,084.112 ppb	110.858 %
Concentration RSD	1.0 %	5.9 %	66.2 %	2.2 %	1.5 %	4.2 %	2.6 %	1.9 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	9.523 ppb	1.236 ppb	926.693 ppb	15,595.284 ppb	0.966 ppb	3.548 ppb	2.632 ppb	6.687 ppb	97.746 %
Concentration per Run 1	9.571 ppb	1.276 ppb	920.999 ppb	15,612.038 ppb	0.974 ppb	3.478 ppb	2.653 ppb	6.449 ppb	96.716 %
Concentration per Run 2	9.412 ppb	1.205 ppb	913.640 ppb	15,448.039 ppb	0.932 ppb	3.722 ppb	2.523 ppb	6.689 ppb	96.204 %
Concentration per Run 3	9.585 ppb	1.226 ppb	945.439 ppb	15,725.775 ppb	0.994 ppb	3.443 ppb	2.721 ppb	6.923 ppb	100.318 %
Concentration RSD	1.0 %	2.9 %	1.8 %	0.9 %	3.3 %	4.3 %	3.8 %	3.5 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	46.618 ppb	0.288 ppb	4,789.394 ppb	19.152 ppb	89.398 %	0.002 ppb	0.007 ppb	93.864 %	0.674 ppb
Concentration per Run 1	46.525 ppb	0.106 ppb	4,703.337 ppb	18.547 ppb	88.523 %	0.004 ppb	0.010 ppb	90.957 %	0.649 ppb
Concentration per Run 2	46.005 ppb	0.441 ppb	4,742.105 ppb	19.447 ppb	88.996 %	0.002 ppb	0.006 ppb	92.943 %	0.701 ppb
Concentration per Run 3	47.325 ppb	0.316 ppb	4,922.738 ppb	19.462 ppb	90.674 %	-0.001 ppb	0.005 ppb	97.693 %	0.673 ppb
Concentration RSD	1.4 %	58.7 %	2.4 %	2.7 %	1.3 %	129.8 %	39.2 %	3.7 %	3.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	4,277.717 ppb	95.239 %	92.639 %	-0.011 ppb	0.286 ppb	77.384 %
Concentration per Run 1	4,226.346 ppb	91.831 %	88.666 %	-0.023 ppb	0.280 ppb	73.410 %
Concentration per Run 2	4,289.787 ppb	94.838 %	92.028 %	-0.006 ppb	0.287 ppb	77.323 %
Concentration per Run 3	4,317.019 ppb	99.048 %	97.224 %	-0.005 ppb	0.291 ppb	81.420 %
Concentration RSD	1.1 %	3.8 %	4.7 %	88.2 %	1.9 %	5.2 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 75 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343527-03 6020TL Rack 3
 Analysis started at: 8/9/2023 11:10:00 PM Vial 7

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.459 %	96.987 %	-0.002 ppb	215,328.051 ppb	43,900.435 ppb	20.933 ppb	15,510.081 ppb	134,175.903 ppb	108.194 %
Concentration per Run 1	104.200 %	89.339 %	0.004 ppb	224,278.915 ppb	45,843.862 ppb	24.282 ppb	15,934.660 ppb	136,882.700 ppb	107.991 %
Concentration per Run 2	103.507 %	103.940 %	-0.011 ppb	208,508.989 ppb	42,518.076 ppb	18.991 ppb	15,334.312 ppb	132,721.479 ppb	107.739 %
Concentration per Run 3	102.671 %	97.682 %	0.001 ppb	213,196.248 ppb	43,339.368 ppb	19.527 ppb	15,261.270 ppb	132,923.530 ppb	108.850 %
Concentration RSD	0.7 %	7.6 %	355.6 %	3.8 %	3.9 %	13.9 %	2.4 %	1.7 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.383 ppb	0.188 ppb	305.889 ppb	2,911.965 ppb	0.891 ppb	5.015 ppb	0.732 ppb	2.284 ppb	95.212 %
Concentration per Run 1	0.420 ppb	0.156 ppb	304.396 ppb	2,899.237 ppb	0.863 ppb	5.020 ppb	0.713 ppb	2.117 ppb	95.253 %
Concentration per Run 2	0.394 ppb	0.203 ppb	297.828 ppb	2,837.501 ppb	0.899 ppb	4.666 ppb	0.661 ppb	2.341 ppb	98.592 %
Concentration per Run 3	0.336 ppb	0.206 ppb	315.442 ppb	2,999.158 ppb	0.912 ppb	5.358 ppb	0.822 ppb	2.395 ppb	91.792 %
Concentration RSD	11.3 %	14.8 %	2.9 %	2.8 %	2.8 %	6.9 %	11.2 %	6.5 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	7.188 ppb	0.077 ppb	2,765.610 ppb	101.021 ppb	88.929 %	0.001 ppb	0.022 ppb	92.051 %	1.570 ppb
Concentration per Run 1	7.222 ppb	0.042 ppb	2,710.571 ppb	96.899 ppb	86.952 %	0.002 ppb	0.017 ppb	90.274 %	1.543 ppb
Concentration per Run 2	7.003 ppb	0.040 ppb	2,769.272 ppb	102.567 ppb	89.781 %	0.001 ppb	0.026 ppb	92.673 %	1.572 ppb
Concentration per Run 3	7.340 ppb	0.148 ppb	2,816.988 ppb	103.596 ppb	90.054 %	-0.001 ppb	0.022 ppb	93.205 %	1.595 ppb
Concentration RSD	2.4 %	80.5 %	1.9 %	3.6 %	1.9 %	164.8 %	20.6 %	1.7 %	1.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2,115.815 ppb	96.061 %	94.382 %	-0.022 ppb	0.104 ppb	77.431 %
Concentration per Run 1	2,054.368 ppb	92.941 %	90.785 %	-0.030 ppb	0.098 ppb	74.850 %
Concentration per Run 2	2,140.650 ppb	96.574 %	95.295 %	-0.020 ppb	0.106 ppb	78.392 %
Concentration per Run 3	2,152.428 ppb	98.669 %	97.066 %	-0.016 ppb	0.107 ppb	79.052 %
Concentration RSD	2.5 %	3.0 %	3.4 %	32.6 %	4.6 %	2.9 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 76 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343527-04 6020TL Rack 3
 Analysis started at: 8/9/2023 11:14:30 PM Vial 8

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.378 %	95.365 %	0.000 ppb	148,154.241 ppb	54,939.516 ppb	51.029 ppb	13,514.874 ppb	162,507.284 ppb	107.567 %
Concentration per Run 1	107.805 %	97.335 %	-0.005 ppb	144,606.491 ppb	53,973.865 ppb	51.753 ppb	13,460.609 ppb	160,058.752 ppb	107.714 %
Concentration per Run 2	107.254 %	96.292 %	0.003 ppb	148,426.044 ppb	54,481.999 ppb	50.770 ppb	13,583.439 ppb	164,556.717 ppb	109.037 %
Concentration per Run 3	107.074 %	92.468 %	0.000 ppb	151,430.190 ppb	56,362.684 ppb	50.565 ppb	13,500.574 ppb	162,906.385 ppb	105.949 %
Concentration RSD	0.4 %	2.7 %	900.7 %	2.3 %	2.3 %	1.2 %	0.5 %	1.4 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.945 ppb	0.232 ppb	718.754 ppb	64.941 ppb	0.898 ppb	1.657 ppb	4.290 ppb	4.638 ppb	97.922 %
Concentration per Run 1	0.900 ppb	0.211 ppb	708.737 ppb	61.984 ppb	0.861 ppb	1.638 ppb	4.185 ppb	4.742 ppb	96.835 %
Concentration per Run 2	0.989 ppb	0.243 ppb	711.423 ppb	63.769 ppb	0.935 ppb	1.631 ppb	4.180 ppb	4.550 ppb	100.714 %
Concentration per Run 3	0.947 ppb	0.242 ppb	736.103 ppb	69.069 ppb	0.898 ppb	1.702 ppb	4.504 ppb	4.622 ppb	96.217 %
Concentration RSD	4.8 %	7.9 %	2.1 %	5.7 %	4.1 %	2.4 %	4.3 %	2.1 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.406 ppb	0.118 ppb	1,154.782 ppb	3.909 ppb	88.424 %	0.004 ppb	0.026 ppb	92.546 %	0.758 ppb
Concentration per Run 1	0.426 ppb	0.226 ppb	1,136.496 ppb	3.728 ppb	87.352 %	0.003 ppb	0.025 ppb	93.600 %	0.721 ppb
Concentration per Run 2	0.367 ppb	0.061 ppb	1,148.482 ppb	4.138 ppb	89.464 %	0.004 ppb	0.018 ppb	94.946 %	0.755 ppb
Concentration per Run 3	0.425 ppb	0.069 ppb	1,179.367 ppb	3.861 ppb	88.456 %	0.004 ppb	0.037 ppb	89.093 %	0.798 ppb
Concentration RSD	8.3 %	78.7 %	1.9 %	5.4 %	1.2 %	12.4 %	36.6 %	3.3 %	5.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	394.876 ppb	95.081 %	93.289 %	-0.006 ppb	0.288 ppb	78.598 %
Concentration per Run 1	387.381 ppb	94.386 %	92.828 %	-0.016 ppb	0.283 ppb	76.721 %
Concentration per Run 2	397.741 ppb	96.616 %	94.807 %	-0.004 ppb	0.293 ppb	80.199 %
Concentration per Run 3	399.506 ppb	94.242 %	92.233 %	0.001 ppb	0.288 ppb	78.873 %
Concentration RSD	1.7 %	1.4 %	1.4 %	139.4 %	1.9 %	2.2 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 77 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343527-05 6020TL Rack 3
 Analysis started at: 8/9/2023 11:19:00 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.324 %	100.579 %	-0.005 ppb	123,856.591 ppb	43,520.741 ppb	21.179 ppb	8,160.997 ppb	134,717.262 ppb	103.379 %
Concentration per Run 1	104.098 %	91.773 %	-0.006 ppb	132,036.135 ppb	46,669.478 ppb	24.591 ppb	8,754.089 ppb	141,415.775 ppb	104.577 %
Concentration per Run 2	103.241 %	102.202 %	-0.001 ppb	121,040.140 ppb	42,637.097 ppb	18.625 ppb	7,958.390 ppb	133,535.856 ppb	104.019 %
Concentration per Run 3	102.633 %	107.764 %	-0.008 ppb	118,493.498 ppb	41,255.647 ppb	20.320 ppb	7,770.513 ppb	129,200.155 ppb	101.542 %
Concentration RSD	0.7 %	8.1 %	70.5 %	5.8 %	6.5 %	14.5 %	6.4 %	4.6 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.227 ppb	0.184 ppb	2,640.815 ppb	2,609.431 ppb	1.407 ppb	2.906 ppb	1.343 ppb	1.651 ppb	95.511 %
Concentration per Run 1	0.135 ppb	0.185 ppb	2,702.438 ppb	2,654.415 ppb	1.469 ppb	2.857 ppb	1.284 ppb	1.592 ppb	96.201 %
Concentration per Run 2	0.235 ppb	0.188 ppb	2,628.673 ppb	2,602.403 ppb	1.439 ppb	2.766 ppb	1.414 ppb	1.680 ppb	94.243 %
Concentration per Run 3	0.311 ppb	0.179 ppb	2,591.333 ppb	2,571.475 ppb	1.311 ppb	3.096 ppb	1.330 ppb	1.681 ppb	96.088 %
Concentration RSD	39.0 %	2.6 %	2.1 %	1.6 %	6.0 %	5.9 %	4.9 %	3.1 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.736 ppb	0.081 ppb	1,374.569 ppb	0.515 ppb	88.474 %	0.000 ppb	0.000 ppb	93.619 %	0.160 ppb
Concentration per Run 1	1.682 ppb	0.060 ppb	1,399.102 ppb	0.474 ppb	88.517 %	0.001 ppb	0.002 ppb	96.633 %	0.148 ppb
Concentration per Run 2	1.824 ppb	0.032 ppb	1,352.525 ppb	0.534 ppb	88.278 %	0.001 ppb	0.000 ppb	91.707 %	0.155 ppb
Concentration per Run 3	1.702 ppb	0.151 ppb	1,372.080 ppb	0.538 ppb	88.629 %	0.000 ppb	-0.001 ppb	92.518 %	0.176 ppb
Concentration RSD	4.4 %	76.9 %	1.7 %	6.9 %	0.2 %	122.7 %	379.1 %	2.8 %	9.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	969.808 ppb	96.680 %	95.639 %	-0.031 ppb	0.035 ppb	80.105 %
Concentration per Run 1	958.454 ppb	95.824 %	94.582 %	-0.039 ppb	0.032 ppb	77.730 %
Concentration per Run 2	968.192 ppb	95.630 %	93.842 %	-0.026 ppb	0.039 ppb	79.483 %
Concentration per Run 3	982.778 ppb	98.588 %	98.494 %	-0.028 ppb	0.034 ppb	83.102 %
Concentration RSD	1.3 %	1.7 %	2.6 %	22.8 %	10.6 %	3.4 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 78 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343527-06 6020TL Rack 3
 Analysis started at: 8/9/2023 11:23:31 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.523 %	95.017 %	0.013 ppb	262,511.857 ppb	49,034.622 ppb	165.380 ppb	8,641.114 ppb	140,826.504 ppb	106.956 %
Concentration per Run 1	105.106 %	93.511 %	0.010 ppb	258,199.454 ppb	48,076.029 ppb	157.519 ppb	8,381.119 ppb	135,667.845 ppb	106.632 %
Concentration per Run 2	105.004 %	92.468 %	0.026 ppb	268,969.435 ppb	49,992.541 ppb	175.424 ppb	8,837.595 ppb	145,684.862 ppb	107.858 %
Concentration per Run 3	103.459 %	99.073 %	0.004 ppb	260,366.682 ppb	49,035.297 ppb	163.196 ppb	8,704.628 ppb	141,126.806 ppb	106.378 %
Concentration RSD	0.9 %	3.7 %	82.9 %	2.2 %	2.0 %	5.5 %	2.7 %	3.6 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.624 ppb	0.485 ppb	1,314.961 ppb	13,081.305 ppb	0.320 ppb	2.809 ppb	5.280 ppb	18.070 ppb	92.988 %
Concentration per Run 1	0.590 ppb	0.442 ppb	1,273.906 ppb	12,680.550 ppb	0.269 ppb	2.860 ppb	5.310 ppb	17.763 ppb	91.601 %
Concentration per Run 2	0.560 ppb	0.507 ppb	1,329.010 ppb	13,269.361 ppb	0.336 ppb	2.819 ppb	5.427 ppb	18.293 ppb	92.718 %
Concentration per Run 3	0.723 ppb	0.506 ppb	1,341.965 ppb	13,294.003 ppb	0.353 ppb	2.748 ppb	5.104 ppb	18.154 ppb	94.646 %
Concentration RSD	13.9 %	7.7 %	2.7 %	2.7 %	14.0 %	2.0 %	3.1 %	1.5 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.602 ppb	0.140 ppb	1,508.885 ppb	1.242 ppb	85.759 %	0.006 ppb	0.003 ppb	89.955 %	0.147 ppb
Concentration per Run 1	3.630 ppb	0.069 ppb	1,462.009 ppb	1.198 ppb	83.909 %	0.005 ppb	0.006 ppb	87.199 %	0.134 ppb
Concentration per Run 2	3.631 ppb	0.170 ppb	1,525.510 ppb	1.324 ppb	85.449 %	0.007 ppb	0.001 ppb	89.321 %	0.160 ppb
Concentration per Run 3	3.547 ppb	0.181 ppb	1,539.135 ppb	1.204 ppb	87.919 %	0.007 ppb	0.002 ppb	93.346 %	0.147 ppb
Concentration RSD	1.3 %	44.3 %	2.7 %	5.7 %	2.4 %	16.4 %	78.1 %	3.5 %	8.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1,707.779 ppb	93.737 %	92.718 %	-0.029 ppb	1.359 ppb	77.175 %
Concentration per Run 1	1,660.417 ppb	89.277 %	87.995 %	-0.036 ppb	1.342 ppb	72.953 %
Concentration per Run 2	1,736.845 ppb	93.764 %	92.511 %	-0.026 ppb	1.382 ppb	77.072 %
Concentration per Run 3	1,726.074 ppb	98.170 %	97.650 %	-0.027 ppb	1.354 ppb	81.499 %
Concentration RSD	2.4 %	4.7 %	5.2 %	18.1 %	1.5 %	5.5 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 79 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343527-07 6020TL Rack 3
 Analysis started at: 8/9/2023 11:28:01 PM Vial 11

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.649 %	93.047 %	0.126 ppb	273,664.874 ppb	47,888.240 ppb	2,317.063 ppb	9,486.443 ppb	138,719.966 ppb	104.957 %
Concentration per Run 1	101.345 %	96.640 %	0.153 ppb	258,193.999 ppb	45,046.090 ppb	2,170.345 ppb	9,049.784 ppb	133,438.708 ppb	105.033 %
Concentration per Run 2	102.478 %	94.206 %	0.111 ppb	270,219.868 ppb	47,445.083 ppb	2,301.720 ppb	9,496.098 ppb	138,122.416 ppb	106.598 %
Concentration per Run 3	101.124 %	88.297 %	0.115 ppb	292,580.754 ppb	51,173.547 ppb	2,479.124 ppb	9,913.449 ppb	144,598.773 ppb	103.241 %
Concentration RSD	0.7 %	4.6 %	18.2 %	6.4 %	6.4 %	6.7 %	4.6 %	4.0 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	4.501 ppb	4.207 ppb	1,498.273 ppb	27,530.466 ppb	2.053 ppb	6.596 ppb	46.321 ppb	41.123 ppb	91.807 %
Concentration per Run 1	4.385 ppb	4.238 ppb	1,456.996 ppb	26,878.239 ppb	1.987 ppb	6.253 ppb	46.307 ppb	40.203 ppb	89.221 %
Concentration per Run 2	4.002 ppb	4.130 ppb	1,481.636 ppb	27,193.271 ppb	2.033 ppb	6.619 ppb	45.508 ppb	41.120 ppb	93.739 %
Concentration per Run 3	5.117 ppb	4.251 ppb	1,556.187 ppb	28,519.889 ppb	2.139 ppb	6.917 ppb	47.146 ppb	42.046 ppb	92.461 %
Concentration RSD	12.6 %	1.6 %	3.4 %	3.2 %	3.8 %	5.0 %	1.8 %	2.2 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.252 ppb	0.738 ppb	1,483.017 ppb	3.464 ppb	84.342 %	0.096 ppb	0.038 ppb	89.643 %	0.540 ppb
Concentration per Run 1	4.181 ppb	0.819 ppb	1,457.370 ppb	3.374 ppb	82.860 %	0.098 ppb	0.041 ppb	87.274 %	0.539 ppb
Concentration per Run 2	4.203 ppb	0.559 ppb	1,478.133 ppb	3.432 ppb	84.686 %	0.091 ppb	0.032 ppb	90.397 %	0.558 ppb
Concentration per Run 3	4.373 ppb	0.836 ppb	1,513.549 ppb	3.585 ppb	85.482 %	0.100 ppb	0.043 ppb	91.258 %	0.522 ppb
Concentration RSD	2.5 %	21.0 %	1.9 %	3.1 %	1.6 %	4.8 %	14.7 %	2.3 %	3.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	5,103.143 ppb	91.354 %	89.955 %	-0.012 ppb	11.051 ppb	75.455 %
Concentration per Run 1	5,012.428 ppb	87.027 %	85.925 %	-0.015 ppb	10.880 ppb	72.387 %
Concentration per Run 2	5,090.427 ppb	92.145 %	90.124 %	-0.010 ppb	11.170 ppb	75.173 %
Concentration per Run 3	5,206.573 ppb	94.889 %	93.816 %	-0.010 ppb	11.102 ppb	78.804 %
Concentration RSD	1.9 %	4.4 %	4.4 %	25.6 %	1.4 %	4.3 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 80 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/9/2023 11:32:32 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.849 %	89.571 %	59.044 ppb	6,392.332 ppb	6,397.236 ppb	62.803 ppb	6,053.639 ppb	6,006.863 ppb	100.527 %
Concentration per Run 1	97.498 %	92.120 %	59.019 ppb	6,118.358 ppb	6,139.263 ppb	63.635 ppb	5,943.437 ppb	5,765.720 ppb	100.749 %
Concentration per Run 2	98.255 %	93.511 %	59.773 ppb	6,243.883 ppb	6,225.837 ppb	61.179 ppb	6,039.258 ppb	6,080.281 ppb	101.310 %
Concentration per Run 3	97.795 %	83.082 %	58.339 ppb	6,814.756 ppb	6,826.608 ppb	63.595 ppb	6,178.222 ppb	6,174.587 ppb	99.522 %
Recovery Percentage 1			98.407 %	106.539 %	106.621 %	104.672 %	100.894 %	100.114 %	
Concentration RSD	0.4 %	6.3 %	1.2 %	5.8 %	5.9 %	2.2 %	2.0 %	3.6 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.413 ppb	61.448 ppb	60.896 ppb	6,116.463 ppb	61.848 ppb	60.482 ppb	61.181 ppb	61.956 ppb	100.180 %
Concentration per Run 1	58.136 ppb	58.559 ppb	56.740 ppb	5,813.576 ppb	59.605 ppb	57.007 ppb	58.784 ppb	58.950 ppb	102.419 %
Concentration per Run 2	61.093 ppb	62.835 ppb	63.317 ppb	6,268.608 ppb	62.921 ppb	62.933 ppb	61.908 ppb	63.620 ppb	97.715 %
Concentration per Run 3	62.009 ppb	62.951 ppb	62.631 ppb	6,267.204 ppb	63.020 ppb	61.506 ppb	62.851 ppb	63.298 ppb	100.404 %
Recovery Percentage 1	100.688 %	102.413 %	101.493 %	101.941 %	103.081 %	100.804 %	101.968 %	103.260 %	
Concentration RSD	3.4 %	4.1 %	5.9 %	4.3 %	3.1 %	5.1 %	3.5 %	4.2 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.988 ppb	59.011 ppb	57.276 ppb	57.981 ppb	97.073 %	58.941 ppb	58.909 ppb	98.177 %	57.763 ppb
Concentration per Run 1	57.820 ppb	57.001 ppb	55.063 ppb	56.337 ppb	97.411 %	58.036 ppb	57.451 ppb	97.335 %	56.084 ppb
Concentration per Run 2	61.406 ppb	61.028 ppb	58.755 ppb	58.665 ppb	96.873 %	59.451 ppb	59.762 ppb	97.969 %	59.147 ppb
Concentration per Run 3	60.737 ppb	59.005 ppb	58.008 ppb	58.942 ppb	96.936 %	59.337 ppb	59.514 ppb	99.226 %	58.060 ppb
Recovery Percentage 1	99.979 %	98.352 %	95.460 %	96.635 %		98.235 %	98.182 %		96.272 %
Concentration RSD	3.2 %	3.4 %	3.4 %	2.5 %	0.3 %	1.3 %	2.2 %	1.0 %	2.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.580 ppb	100.197 %	98.523 %	59.028 ppb	57.940 ppb	93.502 %
Concentration per Run 1	57.532 ppb	97.205 %	94.608 %	56.595 ppb	57.371 ppb	91.333 %
Concentration per Run 2	60.912 ppb	102.376 %	100.689 %	59.414 ppb	57.951 ppb	93.521 %
Concentration per Run 3	60.295 ppb	101.009 %	100.272 %	61.075 ppb	58.499 ppb	95.651 %
Recovery Percentage 1	99.299 %			98.380 %	96.567 %	
Concentration RSD	3.0 %	2.7 %	3.4 %	3.8 %	1.0 %	2.3 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 81 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/9/2023 11:37:04 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.677 %	96.987 %	0.000 ppb	39.762 ppb	8.038 ppb	0.250 ppb	2.572 ppb	28.761 ppb	101.172 %
Concentration per Run 1	103.239 %	95.597 %	-0.003 ppb	41.960 ppb	5.688 ppb	-0.277 ppb	1.159 ppb	21.989 ppb	101.492 %
Concentration per Run 2	102.445 %	94.206 %	0.004 ppb	39.542 ppb	8.907 ppb	0.017 ppb	3.509 ppb	35.106 ppb	100.235 %
Concentration per Run 3	102.346 %	101.159 %	-0.003 ppb	37.783 ppb	9.520 ppb	1.008 ppb	3.048 ppb	29.188 ppb	101.789 %
Recovery Percentage 1			-0.073 %	39.762 %	11.483 %	2.496 %	2.572 %	28.761 %	
Concentration RSD	0.5 %	3.8 %	1,102.4 %	5.3 %	25.6 %	269.7 %	48.4 %	22.8 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.004 ppb	0.026 ppb	0.333 ppb	14.249 ppb	0.003 ppb	0.032 ppb	0.063 ppb	0.319 ppb	98.791 %
Concentration per Run 1	0.016 ppb	0.025 ppb	0.335 ppb	16.435 ppb	0.005 ppb	0.025 ppb	0.075 ppb	0.309 ppb	99.952 %
Concentration per Run 2	-0.010 ppb	0.041 ppb	0.366 ppb	14.730 ppb	0.003 ppb	0.054 ppb	0.055 ppb	0.317 ppb	98.282 %
Concentration per Run 3	0.007 ppb	0.012 ppb	0.299 ppb	11.581 ppb	0.002 ppb	0.017 ppb	0.059 ppb	0.330 ppb	98.138 %
Recovery Percentage 1	0.083 %	2.621 %	33.339 %	28.498 %	0.651 %	1.603 %	6.307 %	6.375 %	
Concentration RSD	305.2 %	55.9 %	10.0 %	17.3 %	41.8 %	61.7 %	17.1 %	3.5 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.001 ppb	0.016 ppb	0.407 ppb	0.134 ppb	100.732 %	0.003 ppb	0.001 ppb	98.638 %	0.041 ppb
Concentration per Run 1	0.010 ppb	0.017 ppb	0.434 ppb	0.152 ppb	100.979 %	0.005 ppb	-0.001 ppb	98.706 %	0.031 ppb
Concentration per Run 2	-0.019 ppb	0.014 ppb	0.389 ppb	0.124 ppb	100.688 %	0.004 ppb	0.003 ppb	97.125 %	0.059 ppb
Concentration per Run 3	0.006 ppb	0.016 ppb	0.397 ppb	0.124 ppb	100.529 %	0.000 ppb	0.001 ppb	100.083 %	0.032 ppb
Recovery Percentage 1	-0.202 %	0.311 %	4.067 %	6.679 %		0.762 %	0.550 %		1.020 %
Concentration RSD	1,594.3 %	7.4 %	5.9 %	12.0 %	0.2 %	88.5 %	200.1 %	1.5 %	38.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.496 ppb	101.448 %	100.105 %	0.263 ppb	0.005 ppb	99.572 %
Concentration per Run 1	0.504 ppb	99.983 %	97.957 %	0.264 ppb	0.008 ppb	98.114 %
Concentration per Run 2	0.494 ppb	101.986 %	100.927 %	0.301 ppb	0.005 ppb	98.755 %
Concentration per Run 3	0.490 ppb	102.374 %	101.431 %	0.223 ppb	0.004 ppb	101.847 %
Recovery Percentage 1	99.194 %			26.264 %	0.545 %	
Concentration RSD	1.4 %	1.3 %	1.9 %	15.0 %	34.7 %	2.0 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 82 User name ALPHALAB\la2-icpmsq Comment <Comment>
 Analysis label: L2343527-08 6020TL Rack 3
 Analysis started at: 8/9/2023 11:41:37 PM Vial 12

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.555 %	88.644 %	0.018 ppb	303,351.479 ppb	52,462.361 ppb	222.045 ppb	9,634.203 ppb	151,153.082 ppb	104.254 %
Concentration per Run 1	103.687 %	84.125 %	0.024 ppb	305,192.586 ppb	52,799.729 ppb	217.469 ppb	9,406.667 ppb	144,239.798 ppb	105.526 %
Concentration per Run 2	102.112 %	90.730 %	0.016 ppb	300,214.616 ppb	51,932.720 ppb	226.199 ppb	9,755.075 ppb	154,758.087 ppb	104.164 %
Concentration per Run 3	101.867 %	91.078 %	0.013 ppb	304,647.234 ppb	52,654.634 ppb	222.466 ppb	9,740.866 ppb	154,461.362 ppb	103.071 %
Concentration RSD	1.0 %	4.4 %	32.7 %	0.9 %	0.9 %	2.0 %	2.0 %	4.0 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.741 ppb	0.619 ppb	1,513.177 ppb	12,151.961 ppb	0.382 ppb	2.449 ppb	9.596 ppb	9.531 ppb	91.688 %
Concentration per Run 1	0.632 ppb	0.578 ppb	1,448.626 ppb	11,636.589 ppb	0.394 ppb	2.186 ppb	8.552 ppb	8.860 ppb	91.688 %
Concentration per Run 2	0.758 ppb	0.586 ppb	1,550.511 ppb	12,370.776 ppb	0.382 ppb	2.635 ppb	10.042 ppb	10.096 ppb	91.029 %
Concentration per Run 3	0.832 ppb	0.693 ppb	1,540.394 ppb	12,448.518 ppb	0.370 ppb	2.525 ppb	10.195 ppb	9.638 ppb	92.347 %
Concentration RSD	13.7 %	10.4 %	3.7 %	3.7 %	3.2 %	9.5 %	9.5 %	6.6 %	0.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.159 ppb	0.182 ppb	1,583.532 ppb	1.187 ppb	84.361 %	0.015 ppb	0.004 ppb	89.472 %	0.182 ppb
Concentration per Run 1	2.983 ppb	0.272 ppb	1,526.033 ppb	1.243 ppb	81.290 %	0.014 ppb	0.007 ppb	86.699 %	0.165 ppb
Concentration per Run 2	3.404 ppb	0.114 ppb	1,606.045 ppb	1.077 ppb	85.019 %	0.018 ppb	0.001 ppb	89.713 %	0.197 ppb
Concentration per Run 3	3.089 ppb	0.159 ppb	1,618.519 ppb	1.241 ppb	86.773 %	0.012 ppb	0.004 ppb	92.004 %	0.184 ppb
Concentration RSD	6.9 %	44.8 %	3.2 %	8.0 %	3.3 %	20.8 %	67.0 %	3.0 %	8.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2,035.807 ppb	94.745 %	94.451 %	0.045 ppb	9.084 ppb	77.991 %
Concentration per Run 1	1,991.646 ppb	90.069 %	89.210 %	0.027 ppb	8.947 ppb	73.168 %
Concentration per Run 2	2,047.854 ppb	95.546 %	95.362 %	0.055 ppb	9.155 ppb	79.097 %
Concentration per Run 3	2,067.919 ppb	98.621 %	98.782 %	0.052 ppb	9.151 ppb	81.710 %
Concentration RSD	1.9 %	4.6 %	5.1 %	33.8 %	1.3 %	5.6 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 83 User name ALPHALAB\la2-icpmsq Comment <Comment>
 Analysis label: L2343527-09 6020TL Rack 3
 Analysis started at: 8/9/2023 11:46:08 PM Vial 13

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.125 %	87.949 %	0.014 ppb	317,338.808 ppb	57,694.410 ppb	166.710 ppb	9,909.759 ppb	163,910.384 ppb	103.634 %
Concentration per Run 1	101.893 %	78.911 %	0.013 ppb	331,227.116 ppb	60,136.157 ppb	171.571 ppb	10,376.332 ppb	167,674.116 ppb	102.900 %
Concentration per Run 2	101.518 %	94.206 %	0.008 ppb	301,431.517 ppb	54,795.090 ppb	158.043 ppb	9,418.538 ppb	158,610.042 ppb	104.704 %
Concentration per Run 3	99.964 %	90.730 %	0.022 ppb	319,357.793 ppb	58,151.982 ppb	170.516 ppb	9,934.407 ppb	165,446.995 ppb	103.297 %
Concentration RSD	1.0 %	9.1 %	50.9 %	4.7 %	4.7 %	4.5 %	4.8 %	2.9 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.608 ppb	0.477 ppb	1,571.851 ppb	12,403.825 ppb	0.334 ppb	2.504 ppb	4.564 ppb	5.898 ppb	91.880 %
Concentration per Run 1	0.549 ppb	0.488 ppb	1,586.034 ppb	12,462.655 ppb	0.342 ppb	2.462 ppb	4.361 ppb	5.878 ppb	89.421 %
Concentration per Run 2	0.544 ppb	0.469 ppb	1,516.442 ppb	11,980.781 ppb	0.379 ppb	2.326 ppb	4.560 ppb	5.799 ppb	93.357 %
Concentration per Run 3	0.729 ppb	0.475 ppb	1,613.077 ppb	12,768.040 ppb	0.281 ppb	2.723 ppb	4.769 ppb	6.016 ppb	92.863 %
Concentration RSD	17.3 %	2.0 %	3.2 %	3.2 %	14.9 %	8.1 %	4.5 %	1.9 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.906 ppb	0.177 ppb	1,698.961 ppb	0.797 ppb	83.447 %	0.006 ppb	0.003 ppb	88.680 %	0.141 ppb
Concentration per Run 1	2.787 ppb	0.196 ppb	1,677.320 ppb	0.745 ppb	81.352 %	0.007 ppb	0.003 ppb	85.240 %	0.131 ppb
Concentration per Run 2	2.897 ppb	0.169 ppb	1,697.502 ppb	0.889 ppb	83.631 %	0.006 ppb	0.004 ppb	89.452 %	0.154 ppb
Concentration per Run 3	3.033 ppb	0.165 ppb	1,722.061 ppb	0.757 ppb	85.359 %	0.006 ppb	0.003 ppb	91.349 %	0.137 ppb
Concentration RSD	4.2 %	9.4 %	1.3 %	10.0 %	2.4 %	5.6 %	22.9 %	3.5 %	8.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2,112.551 ppb	93.151 %	92.400 %	0.007 ppb	5.674 ppb	75.132 %
Concentration per Run 1	2,084.292 ppb	88.838 %	88.138 %	-0.012 ppb	5.564 ppb	71.668 %
Concentration per Run 2	2,118.639 ppb	93.979 %	92.504 %	0.015 ppb	5.738 ppb	75.274 %
Concentration per Run 3	2,134.721 ppb	96.637 %	96.558 %	0.017 ppb	5.720 ppb	78.455 %
Concentration RSD	1.2 %	4.3 %	4.6 %	248.1 %	1.7 %	4.5 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 84 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343527-10 6020TL Rack 3
 Analysis started at: 8/9/2023 11:50:39 PM Vial 14

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.433 %	90.962 %	0.011 ppb	362,323.401 ppb	54,617.939 ppb	22.749 ppb	11,027.286 ppb	160,808.755 ppb	101.896 %
Concentration per Run 1	101.204 %	90.382 %	0.013 ppb	350,753.200 ppb	52,522.646 ppb	20.882 ppb	10,655.115 ppb	154,279.421 ppb	103.383 %
Concentration per Run 2	99.223 %	88.297 %	0.005 ppb	375,867.542 ppb	56,723.362 ppb	23.378 ppb	11,309.429 ppb	164,158.237 ppb	102.938 %
Concentration per Run 3	97.873 %	94.206 %	0.014 ppb	360,349.461 ppb	54,607.808 ppb	23.987 ppb	11,117.313 ppb	163,988.607 ppb	99.367 %
Concentration RSD	1.7 %	3.3 %	47.9 %	3.5 %	3.8 %	7.2 %	3.0 %	3.5 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.284 ppb	0.212 ppb	1,903.274 ppb	8,291.827 ppb	0.113 ppb	2.074 ppb	1.011 ppb	2.978 ppb	90.438 %
Concentration per Run 1	0.348 ppb	0.183 ppb	1,852.463 ppb	8,051.469 ppb	0.102 ppb	2.103 ppb	0.986 ppb	2.935 ppb	87.938 %
Concentration per Run 2	0.283 ppb	0.216 ppb	1,928.393 ppb	8,348.383 ppb	0.104 ppb	2.097 ppb	0.889 ppb	2.967 ppb	92.203 %
Concentration per Run 3	0.223 ppb	0.237 ppb	1,928.966 ppb	8,475.629 ppb	0.132 ppb	2.021 ppb	1.158 ppb	3.033 ppb	91.173 %
Concentration RSD	22.0 %	12.9 %	2.3 %	2.6 %	14.8 %	2.2 %	13.4 %	1.7 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.387 ppb	0.083 ppb	1,558.719 ppb	0.225 ppb	82.447 %	0.002 ppb	0.001 ppb	87.485 %	0.077 ppb
Concentration per Run 1	1.357 ppb	0.098 ppb	1,521.839 ppb	0.232 ppb	80.862 %	0.001 ppb	0.000 ppb	84.035 %	0.072 ppb
Concentration per Run 2	1.280 ppb	0.035 ppb	1,563.835 ppb	0.199 ppb	82.778 %	0.003 ppb	0.000 ppb	88.128 %	0.085 ppb
Concentration per Run 3	1.526 ppb	0.117 ppb	1,590.483 ppb	0.245 ppb	83.700 %	0.003 ppb	0.001 ppb	90.291 %	0.075 ppb
Concentration RSD	9.1 %	51.4 %	2.2 %	10.4 %	1.8 %	43.5 %	116.5 %	3.6 %	9.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1,929.621 ppb	91.141 %	90.416 %	-0.011 ppb	0.508 ppb	73.925 %
Concentration per Run 1	1,881.100 ppb	87.193 %	85.651 %	-0.019 ppb	0.507 ppb	70.497 %
Concentration per Run 2	1,967.613 ppb	92.127 %	91.730 %	-0.010 ppb	0.517 ppb	73.936 %
Concentration per Run 3	1,940.150 ppb	94.105 %	93.866 %	-0.003 ppb	0.500 ppb	77.342 %
Concentration RSD	2.3 %	3.9 %	4.7 %	74.2 %	1.7 %	4.6 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 85 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/9/2023 11:55:09 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.645 %	91.541 %	58.877 ppb	6,130.925 ppb	6,147.227 ppb	59.517 ppb	5,852.042 ppb	5,956.016 ppb	98.097 %
Concentration per Run 1	95.610 %	89.687 %	58.405 ppb	6,197.462 ppb	6,256.532 ppb	61.440 ppb	5,858.616 ppb	5,879.126 ppb	98.240 %
Concentration per Run 2	95.791 %	94.206 %	58.907 ppb	6,044.738 ppb	5,975.261 ppb	61.489 ppb	5,775.586 ppb	5,971.140 ppb	99.017 %
Concentration per Run 3	95.533 %	90.730 %	59.319 ppb	6,150.574 ppb	6,209.888 ppb	55.621 ppb	5,921.922 ppb	6,017.782 ppb	97.032 %
Recovery Percentage 1			98.129 %	102.182 %	102.454 %	99.194 %	97.534 %	99.267 %	
Concentration RSD	0.1 %	2.6 %	0.8 %	1.3 %	2.5 %	5.7 %	1.3 %	1.2 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.762 ppb	61.115 ppb	60.696 ppb	6,041.841 ppb	60.844 ppb	61.511 ppb	62.185 ppb	62.073 ppb	96.109 %
Concentration per Run 1	60.395 ppb	59.817 ppb	61.291 ppb	5,915.657 ppb	60.291 ppb	60.342 ppb	59.885 ppb	61.432 ppb	94.990 %
Concentration per Run 2	59.891 ppb	61.060 ppb	59.587 ppb	6,019.234 ppb	61.271 ppb	61.761 ppb	63.689 ppb	63.168 ppb	95.557 %
Concentration per Run 3	61.999 ppb	62.467 ppb	61.210 ppb	6,190.631 ppb	60.970 ppb	62.430 ppb	62.982 ppb	61.620 ppb	97.780 %
Recovery Percentage 1	101.269 %	101.858 %	101.161 %	100.697 %	101.406 %	102.518 %	103.642 %	103.455 %	
Concentration RSD	1.8 %	2.2 %	1.6 %	2.3 %	0.8 %	1.7 %	3.3 %	1.5 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.448 ppb	59.573 ppb	57.221 ppb	57.342 ppb	94.018 %	59.030 ppb	59.122 ppb	94.223 %	58.027 ppb
Concentration per Run 1	59.880 ppb	57.327 ppb	56.108 ppb	55.559 ppb	93.844 %	58.032 ppb	58.056 ppb	93.143 %	56.840 ppb
Concentration per Run 2	61.020 ppb	61.343 ppb	57.691 ppb	58.374 ppb	94.180 %	59.183 ppb	59.454 ppb	93.965 %	58.776 ppb
Concentration per Run 3	60.442 ppb	60.047 ppb	57.864 ppb	58.094 ppb	94.030 %	59.876 ppb	59.856 ppb	95.560 %	58.464 ppb
Recovery Percentage 1	100.746 %	99.288 %	95.368 %	95.570 %		98.384 %	98.537 %		96.712 %
Concentration RSD	0.9 %	3.4 %	1.7 %	2.7 %	0.2 %	1.6 %	1.6 %	1.3 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.463 ppb	97.343 %	95.541 %	58.671 ppb	57.564 ppb	91.245 %
Concentration per Run 1	56.750 ppb	95.603 %	93.607 %	56.225 ppb	56.615 ppb	88.974 %
Concentration per Run 2	59.080 ppb	96.193 %	94.353 %	60.069 ppb	58.078 ppb	90.658 %
Concentration per Run 3	59.561 ppb	100.231 %	98.664 %	59.719 ppb	57.999 ppb	94.102 %
Recovery Percentage 1	97.439 %			97.785 %	95.940 %	
Concentration RSD	2.6 %	2.6 %	2.9 %	3.6 %	1.4 %	2.9 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 86 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/9/2023 11:59:42 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.434 %	94.786 %	-0.004 ppb	45.174 ppb	9.271 ppb	-0.531 ppb	1.675 ppb	38.768 ppb	98.449 %
Concentration per Run 1	99.445 %	100.463 %	-0.009 ppb	43.897 ppb	6.972 ppb	-0.657 ppb	3.655 ppb	33.092 ppb	97.756 %
Concentration per Run 2	99.822 %	95.249 %	-0.001 ppb	44.410 ppb	10.753 ppb	-0.629 ppb	-0.347 ppb	43.562 ppb	99.052 %
Concentration per Run 3	99.034 %	88.644 %	-0.002 ppb	47.217 ppb	10.088 ppb	-0.306 ppb	1.718 ppb	39.650 ppb	98.539 %
Recovery Percentage 1			-0.814 %	45.174 %	13.244 %	-5.307 %	1.675 %	38.768 %	
Concentration RSD	0.4 %	6.2 %	115.5 %	4.0 %	21.8 %	36.7 %	119.5 %	13.6 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.033 ppb	0.306 ppb	9.290 ppb	0.003 ppb	0.006 ppb	0.048 ppb	0.297 ppb	96.359 %
Concentration per Run 1	0.016 ppb	0.054 ppb	0.257 ppb	8.923 ppb	0.003 ppb	0.001 ppb	0.039 ppb	0.212 ppb	95.995 %
Concentration per Run 2	-0.027 ppb	0.027 ppb	0.372 ppb	8.875 ppb	0.003 ppb	0.040 ppb	0.067 ppb	0.314 ppb	95.727 %
Concentration per Run 3	0.010 ppb	0.020 ppb	0.289 ppb	10.072 ppb	0.003 ppb	-0.024 ppb	0.039 ppb	0.365 ppb	97.355 %
Recovery Percentage 1	-0.006 %	3.344 %	30.620 %	18.580 %	0.515 %	0.281 %	4.824 %	5.945 %	
Concentration RSD	7,536.6 %	53.9 %	19.4 %	7.3 %	1.7 %	571.4 %	34.5 %	26.2 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.011 ppb	0.043 ppb	0.434 ppb	0.117 ppb	98.098 %	0.005 ppb	0.002 ppb	97.329 %	0.034 ppb
Concentration per Run 1	0.033 ppb	0.020 ppb	0.425 ppb	0.136 ppb	97.186 %	0.003 ppb	0.002 ppb	94.465 %	0.038 ppb
Concentration per Run 2	0.003 ppb	0.017 ppb	0.448 ppb	0.102 ppb	98.386 %	0.006 ppb	0.000 ppb	99.580 %	0.028 ppb
Concentration per Run 3	-0.002 ppb	0.092 ppb	0.430 ppb	0.112 ppb	98.723 %	0.006 ppb	0.002 ppb	97.942 %	0.037 ppb
Recovery Percentage 1	2.248 %	0.853 %	4.343 %	5.833 %		1.200 %	0.757 %		0.848 %
Concentration RSD	171.0 %	99.3 %	2.7 %	15.2 %	0.8 %	41.4 %	86.5 %	2.7 %	16.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.538 ppb	100.069 %	99.055 %	0.260 ppb	0.007 ppb	97.350 %
Concentration per Run 1	0.528 ppb	98.357 %	97.278 %	0.264 ppb	0.008 ppb	94.863 %
Concentration per Run 2	0.550 ppb	99.146 %	98.311 %	0.296 ppb	0.008 ppb	97.639 %
Concentration per Run 3	0.536 ppb	102.705 %	101.576 %	0.220 ppb	0.005 ppb	99.547 %
Recovery Percentage 1	107.651 %			25.999 %	0.684 %	
Concentration RSD	2.1 %	2.3 %	2.3 %	14.6 %	28.0 %	2.4 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 87 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/10/2023 12:04:15 AM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.041 %	92.236 %	57.715 ppb	6,090.275 ppb	6,103.438 ppb	58.267 ppb	5,849.564 ppb	5,904.199 ppb	103.641 %
Concentration per Run 1	103.015 %	94.554 %	57.862 ppb	5,942.773 ppb	5,872.783 ppb	53.000 ppb	5,734.814 ppb	5,750.455 ppb	104.554 %
Concentration per Run 2	103.476 %	88.297 %	57.405 ppb	6,197.046 ppb	6,323.916 ppb	63.263 ppb	5,957.525 ppb	5,844.597 ppb	103.498 %
Concentration per Run 3	102.632 %	93.859 %	57.878 ppb	6,131.006 ppb	6,113.616 ppb	58.538 ppb	5,856.352 ppb	6,117.543 ppb	102.869 %
Recovery Percentage 1			96.192 %	101.505 %	101.724 %	97.111 %	97.493 %	98.403 %	
Concentration RSD	0.4 %	3.7 %	0.5 %	2.2 %	3.7 %	8.8 %	1.9 %	3.2 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.848 ppb	61.403 ppb	60.252 ppb	6,036.847 ppb	61.591 ppb	61.861 ppb	62.367 ppb	62.089 ppb	95.587 %
Concentration per Run 1	58.465 ppb	60.411 ppb	60.589 ppb	6,028.558 ppb	61.373 ppb	61.561 ppb	62.305 ppb	61.790 ppb	93.212 %
Concentration per Run 2	60.250 ppb	62.531 ppb	60.069 ppb	6,047.599 ppb	61.749 ppb	62.463 ppb	62.186 ppb	62.846 ppb	95.954 %
Concentration per Run 3	60.831 ppb	61.268 ppb	60.098 ppb	6,034.385 ppb	61.651 ppb	61.558 ppb	62.609 ppb	61.631 ppb	97.595 %
Recovery Percentage 1	99.747 %	102.339 %	100.420 %	100.614 %	102.652 %	103.101 %	103.944 %	103.481 %	
Concentration RSD	2.1 %	1.7 %	0.5 %	0.2 %	0.3 %	0.8 %	0.4 %	1.1 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.821 ppb	58.758 ppb	57.052 ppb	57.400 ppb	97.264 %	58.506 ppb	58.398 ppb	96.908 %	57.467 ppb
Concentration per Run 1	60.788 ppb	58.607 ppb	56.982 ppb	57.109 ppb	96.272 %	57.521 ppb	57.038 ppb	96.936 %	56.077 ppb
Concentration per Run 2	60.810 ppb	59.336 ppb	56.996 ppb	57.360 ppb	96.449 %	59.012 ppb	59.246 ppb	95.667 %	58.211 ppb
Concentration per Run 3	60.865 ppb	58.331 ppb	57.180 ppb	57.731 ppb	99.070 %	58.984 ppb	58.911 ppb	98.122 %	58.112 ppb
Recovery Percentage 1	101.368 %	97.930 %	95.087 %	95.667 %		97.510 %	97.331 %		95.778 %
Concentration RSD	0.1 %	0.9 %	0.2 %	0.5 %	1.6 %	1.5 %	2.0 %	1.3 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.471 ppb	101.588 %	100.439 %	58.524 ppb	57.378 ppb	96.738 %
Concentration per Run 1	57.140 ppb	100.340 %	98.330 %	55.932 ppb	56.588 ppb	93.746 %
Concentration per Run 2	59.635 ppb	99.783 %	99.475 %	59.186 ppb	57.906 ppb	96.440 %
Concentration per Run 3	58.637 ppb	104.639 %	103.510 %	60.453 ppb	57.640 ppb	100.028 %
Recovery Percentage 1	97.451 %			97.539 %	95.630 %	
Concentration RSD	2.1 %	2.6 %	2.7 %	4.0 %	1.2 %	3.3 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 88 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/10/2023 12:08:47 AM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.636 %	92.816 %	-0.002 ppb	40.629 ppb	9.495 ppb	-0.273 ppb	0.912 ppb	28.960 ppb	101.894 %
Concentration per Run 1	104.807 %	92.120 %	0.000 ppb	39.983 ppb	10.442 ppb	-0.044 ppb	0.260 ppb	24.633 ppb	101.294 %
Concentration per Run 2	104.887 %	92.120 %	-0.006 ppb	41.941 ppb	6.262 ppb	-0.336 ppb	1.025 ppb	39.064 ppb	102.974 %
Concentration per Run 3	104.212 %	94.206 %	0.001 ppb	39.964 ppb	11.780 ppb	-0.438 ppb	1.451 ppb	23.184 ppb	101.415 %
Recovery Percentage 1			-0.351 %	40.629 %	13.564 %	-2.727 %	0.912 %	28.960 %	
Concentration RSD	0.4 %	1.3 %	225.1 %	2.8 %	30.3 %	75.0 %	66.2 %	30.3 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.006 ppb	0.054 ppb	0.328 ppb	11.539 ppb	0.005 ppb	0.072 ppb	0.065 ppb	0.361 ppb	96.606 %
Concentration per Run 1	-0.017 ppb	0.072 ppb	0.315 ppb	13.571 ppb	0.005 ppb	0.032 ppb	0.062 ppb	0.364 ppb	95.686 %
Concentration per Run 2	0.000 ppb	0.042 ppb	0.345 ppb	9.666 ppb	0.005 ppb	0.110 ppb	0.083 ppb	0.354 ppb	98.035 %
Concentration per Run 3	0.000 ppb	0.048 ppb	0.324 ppb	11.380 ppb	0.005 ppb	0.076 ppb	0.050 ppb	0.366 ppb	96.098 %
Recovery Percentage 1	-0.119 %	5.404 %	32.759 %	23.078 %	1.014 %	3.616 %	6.510 %	7.228 %	
Concentration RSD	167.7 %	29.7 %	4.7 %	17.0 %	1.4 %	54.1 %	25.3 %	1.7 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.010 ppb	0.073 ppb	0.402 ppb	0.144 ppb	101.061 %	0.003 ppb	0.003 ppb	100.834 %	0.037 ppb
Concentration per Run 1	0.011 ppb	0.114 ppb	0.409 ppb	0.166 ppb	100.285 %	0.004 ppb	0.002 ppb	98.734 %	0.038 ppb
Concentration per Run 2	0.024 ppb	-0.008 ppb	0.402 ppb	0.135 ppb	100.997 %	0.003 ppb	0.001 ppb	101.725 %	0.034 ppb
Concentration per Run 3	-0.006 ppb	0.112 ppb	0.396 ppb	0.131 ppb	101.902 %	0.003 ppb	0.005 ppb	102.044 %	0.039 ppb
Recovery Percentage 1	1.908 %	1.455 %	4.023 %	7.197 %		0.815 %	1.418 %		0.926 %
Concentration RSD	157.3 %	95.8 %	1.7 %	13.3 %	0.8 %	14.4 %	77.3 %	1.8 %	6.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.459 ppb	104.228 %	103.129 %	0.295 ppb	0.008 ppb	102.484 %
Concentration per Run 1	0.418 ppb	102.634 %	102.429 %	0.297 ppb	0.008 ppb	100.409 %
Concentration per Run 2	0.468 ppb	103.126 %	101.401 %	0.331 ppb	0.009 ppb	102.535 %
Concentration per Run 3	0.490 ppb	106.923 %	105.559 %	0.258 ppb	0.007 ppb	104.506 %
Recovery Percentage 1	91.708 %			29.535 %	0.782 %	
Concentration RSD	8.1 %	2.3 %	2.1 %	12.5 %	14.1 %	2.0 %

Alpha ICPMSQ2 Data

8/10/2023 7:15:55 AM



Analysis index: 89 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: LLCCV Rack: 4
 Analysis started at: 8/10/2023 12:13:21 AM Vial: 51

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.013 %	94.090 %	0.312 ppb	162.102 ppb	91.290 ppb	14.654 ppb	101.878 ppb	313.897 ppb	100.247 %
Concentration per Run 1	102.173 %	90.382 %	0.293 ppb	161.410 ppb	91.436 ppb	13.897 ppb	97.096 ppb	306.112 ppb	100.212 %
Concentration per Run 2	104.871 %	100.116 %	0.327 ppb	152.074 ppb	88.572 ppb	15.507 ppb	98.543 ppb	330.163 ppb	100.859 %
Concentration per Run 3	101.994 %	91.773 %	0.316 ppb	172.822 ppb	93.863 ppb	14.558 ppb	109.995 ppb	305.416 ppb	99.669 %
Recovery Percentage 1			62.384 %	162.102 %	130.415 %	146.543 %	101.878 %	313.897 %	
Concentration RSD	1.6 %	5.6 %	5.7 %	6.4 %	2.9 %	5.5 %	6.9 %	4.5 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	5.354 ppb	0.549 ppb	1.812 ppb	47.948 ppb	0.533 ppb	2.407 ppb	1.587 ppb	13.771 ppb	96.918 %
Concentration per Run 1	5.127 ppb	0.522 ppb	1.895 ppb	44.495 ppb	0.515 ppb	2.269 ppb	1.550 ppb	13.552 ppb	95.326 %
Concentration per Run 2	5.365 ppb	0.559 ppb	1.702 ppb	50.045 ppb	0.577 ppb	2.522 ppb	1.575 ppb	13.633 ppb	97.629 %
Concentration per Run 3	5.571 ppb	0.567 ppb	1.840 ppb	49.305 ppb	0.508 ppb	2.430 ppb	1.636 ppb	14.128 ppb	97.799 %
Recovery Percentage 1	107.088 %	54.919 %	181.245 %	95.897 %	106.626 %	120.343 %	158.689 %	137.710 %	
Concentration RSD	4.2 %	4.3 %	5.5 %	6.3 %	7.1 %	5.3 %	2.8 %	2.3 %	1.4 %

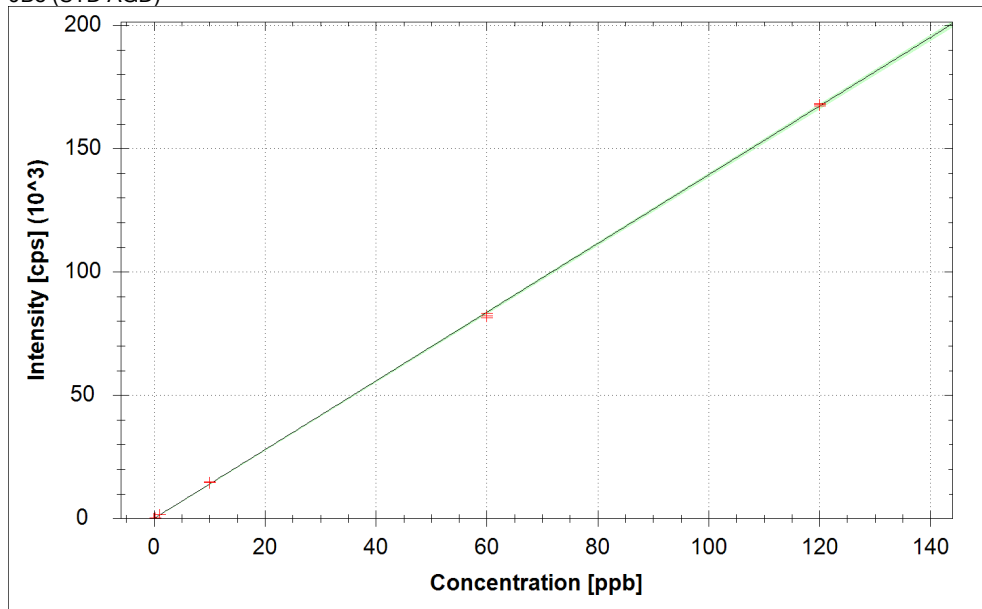
Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.528 ppb	4.729 ppb	0.999 ppb	2.054 ppb	99.927 %	0.253 ppb	0.207 ppb	98.717 %	4.012 ppb
Concentration per Run 1	0.520 ppb	4.842 ppb	0.991 ppb	2.033 ppb	99.443 %	0.244 ppb	0.224 ppb	97.529 %	3.947 ppb
Concentration per Run 2	0.581 ppb	4.808 ppb	0.998 ppb	1.991 ppb	99.706 %	0.249 ppb	0.191 ppb	98.404 %	4.031 ppb
Concentration per Run 3	0.485 ppb	4.537 ppb	1.009 ppb	2.139 ppb	100.633 %	0.267 ppb	0.207 ppb	100.220 %	4.058 ppb
Recovery Percentage 1	105.684 %	94.588 %	199.825 %	102.715 %		63.345 %	103.590 %		100.295 %
Concentration RSD	9.2 %	3.5 %	0.9 %	3.7 %	0.6 %	4.6 %	8.0 %	1.4 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.084 ppb	103.655 %	102.532 %	0.557 ppb	0.552 ppb	102.950 %
Concentration per Run 1	1.135 ppb	101.784 %	100.298 %	0.503 ppb	0.540 ppb	101.484 %
Concentration per Run 2	1.081 ppb	102.969 %	101.969 %	0.584 ppb	0.559 ppb	102.128 %
Concentration per Run 3	1.034 ppb	106.214 %	105.328 %	0.582 ppb	0.558 ppb	105.239 %
Recovery Percentage 1	216.715 %			111.322 %	110.457 %	
Concentration RSD	4.6 %	2.2 %	2.5 %	8.3 %	1.9 %	2.0 %



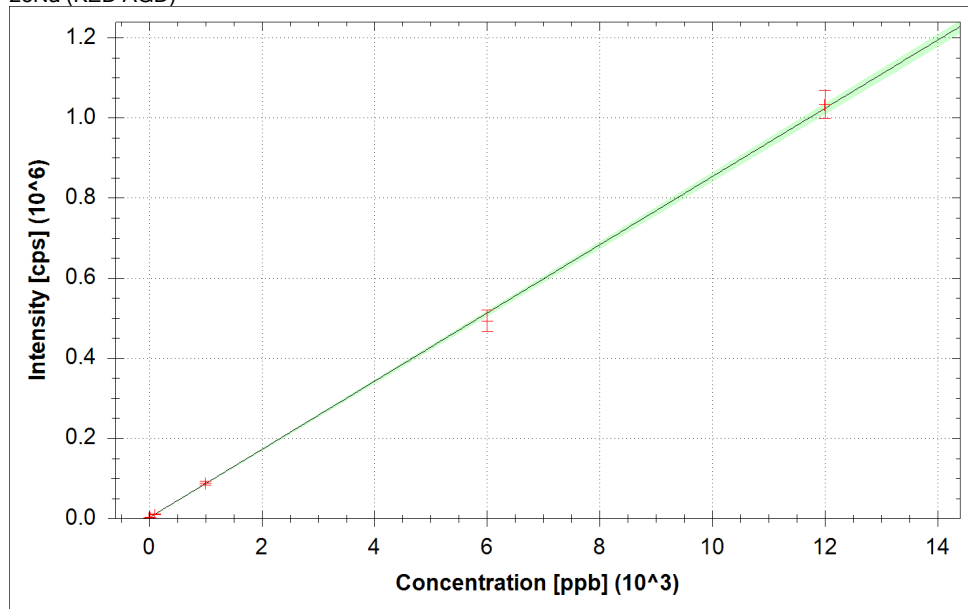
Calibration Curves:

9Be (STD AGD)



$f(x) = 1393.0684 \cdot x + 15.5605$
 $R^2 = 0.9999$
BEC = 0.011 ppb
LoD = 0.0166 ppb

23Na (KED AGD)



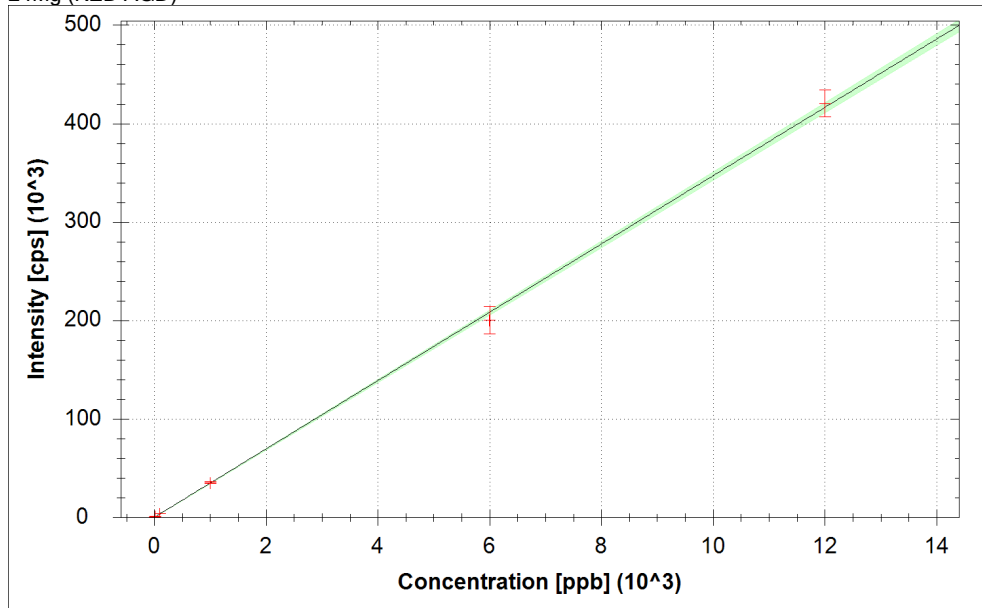
$f(x) = 85.0985 \cdot x + 1788.0148$
 $R^2 = 0.9995$
BEC = 21.011 ppb
LoD = 0.6648 ppb

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM

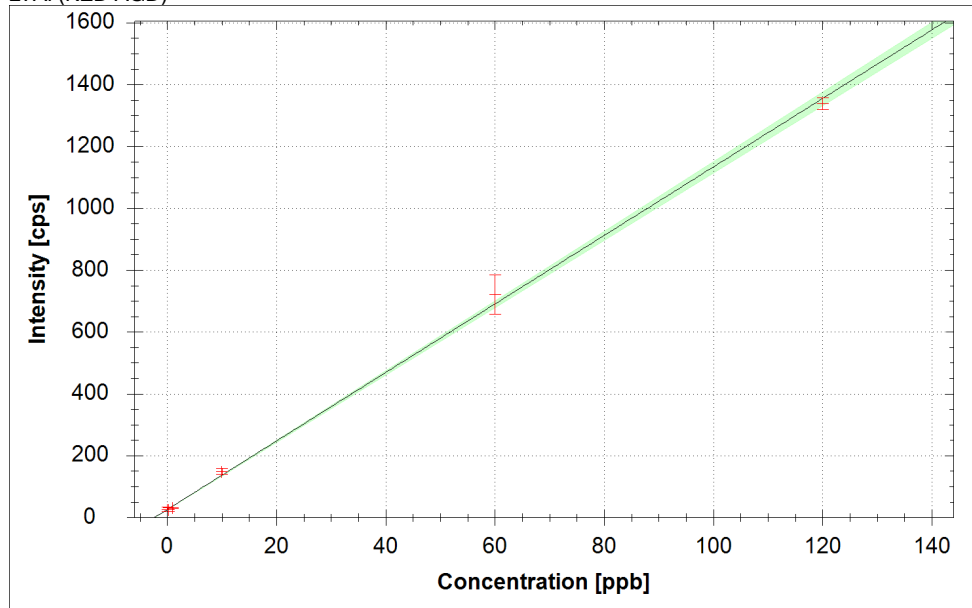


24Mg (KED AGD)



$f(x) = 34.6672 \cdot x + 220.0901$
 $R^2 = 0.9995$
BEC = 6.349 ppb
LoD = 2.5213 ppb

27Al (KED AGD)



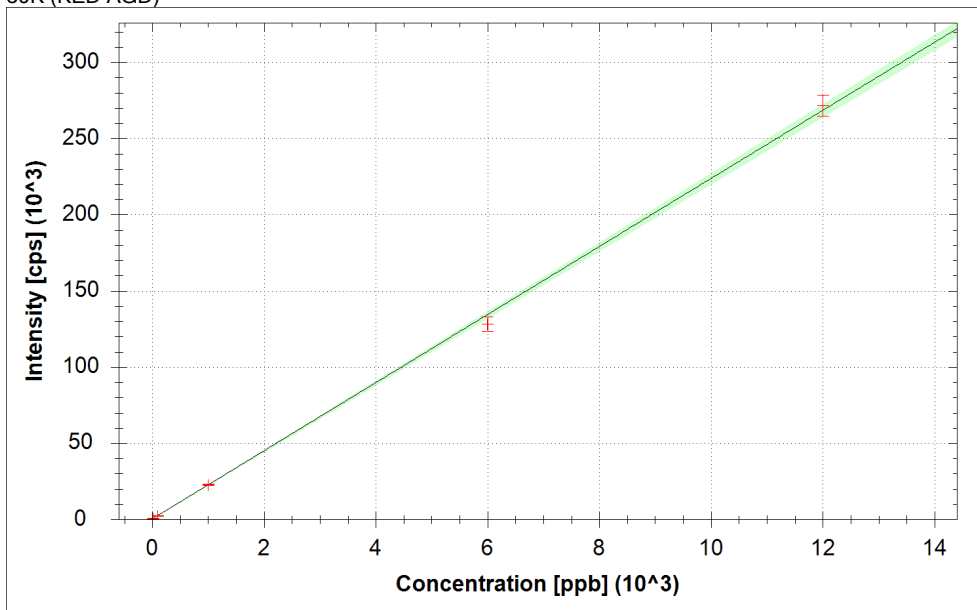
$f(x) = 11.0754 \cdot x + 25.6667$
 $R^2 = 0.9990$
BEC = 2.317 ppb
LoD = 1.8759 ppb

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM

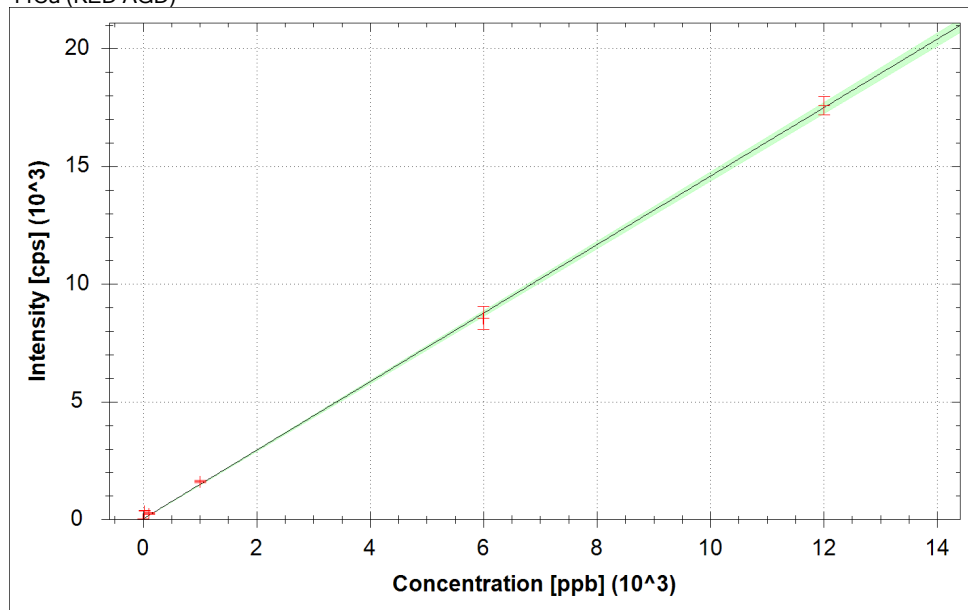


39K (KED AGD)



$f(x) = 22.3310 \cdot x + 416.4887$
 $R^2 = 0.9992$
BEC = 18.651 ppb
LoD = 8.6532 ppb

44Ca (KED AGD)



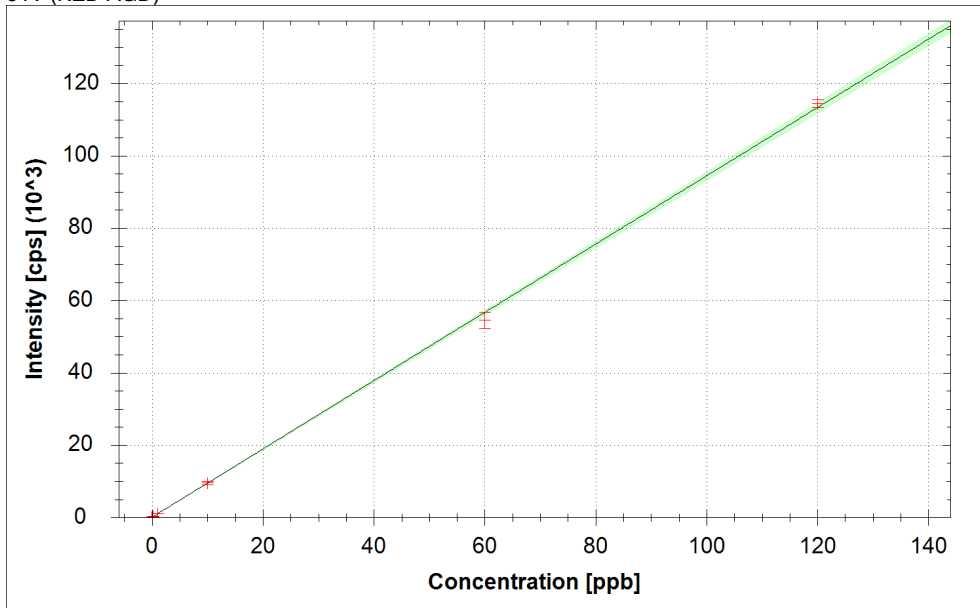
$f(x) = 1.4552 \cdot x + 27.3434$
 $R^2 = 0.9993$
BEC = 18.790 ppb
LoD = 12.7975 ppb

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM

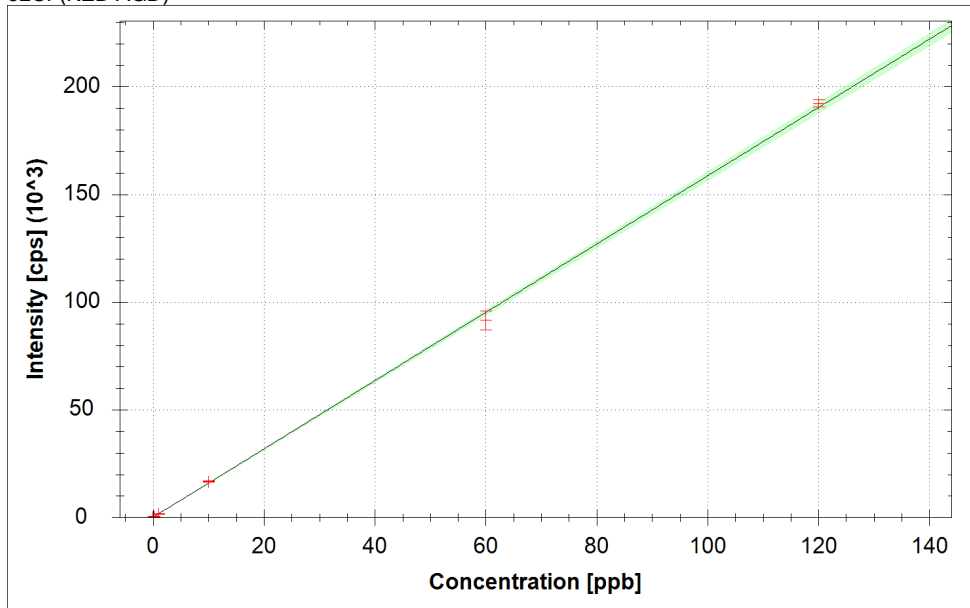


51V (KED AGD)



$f(x) = 943.6166 \cdot x + 68.8111$
 $R^2 = 0.9994$
BEC = 0.073 ppb
LoD = 0.0463 ppb

52Cr (KED AGD)



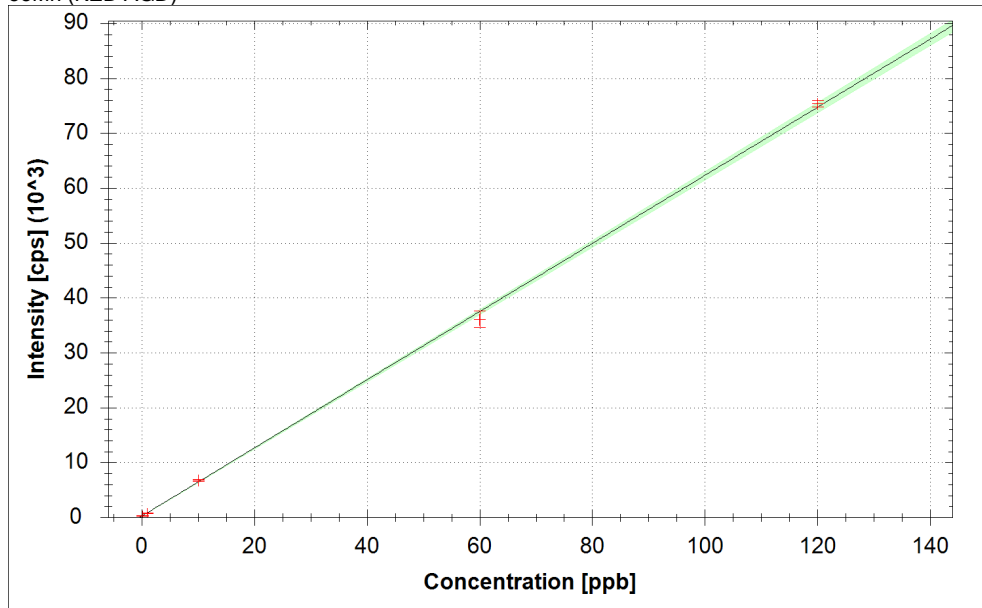
$f(x) = 1585.0120 \cdot x + 99.8366$
 $R^2 = 0.9994$
BEC = 0.063 ppb
LoD = 0.0208 ppb

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM

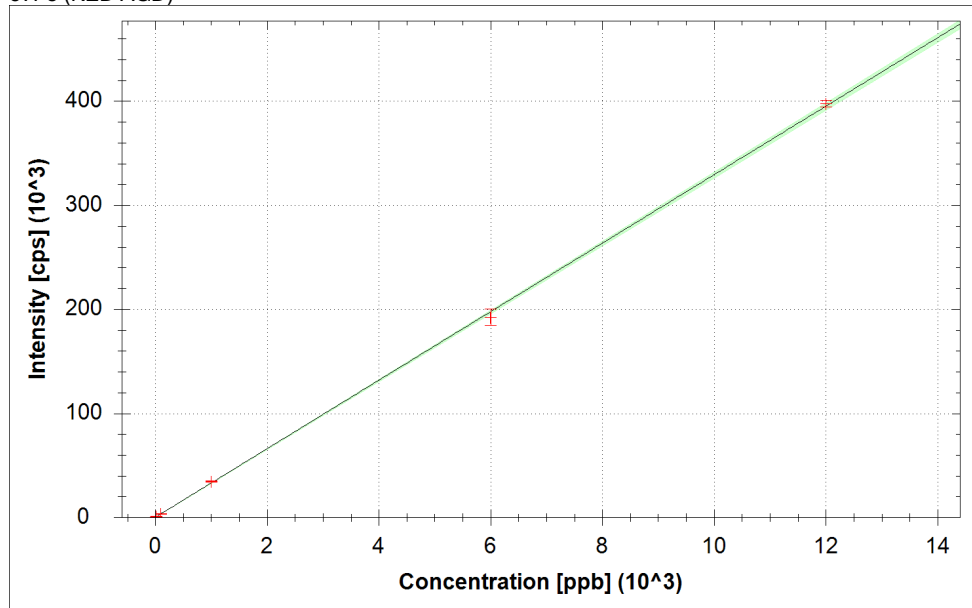


55Mn (KED AGD)



$f(x) = 620.2488 \cdot x + 258.4345$
 $R^2 = 0.9995$
BEC = 0.417 ppb
LoD = 0.1524 ppb

57Fe (KED AGD)



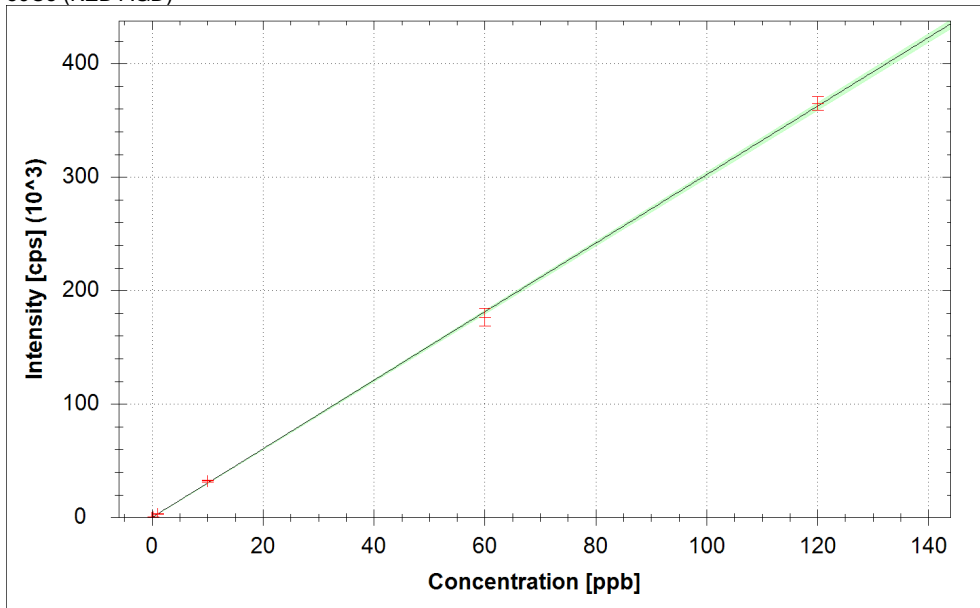
$f(x) = 32.8993 \cdot x + 245.4244$
 $R^2 = 0.9997$
BEC = 7.460 ppb
LoD = 4.9330 ppb

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM

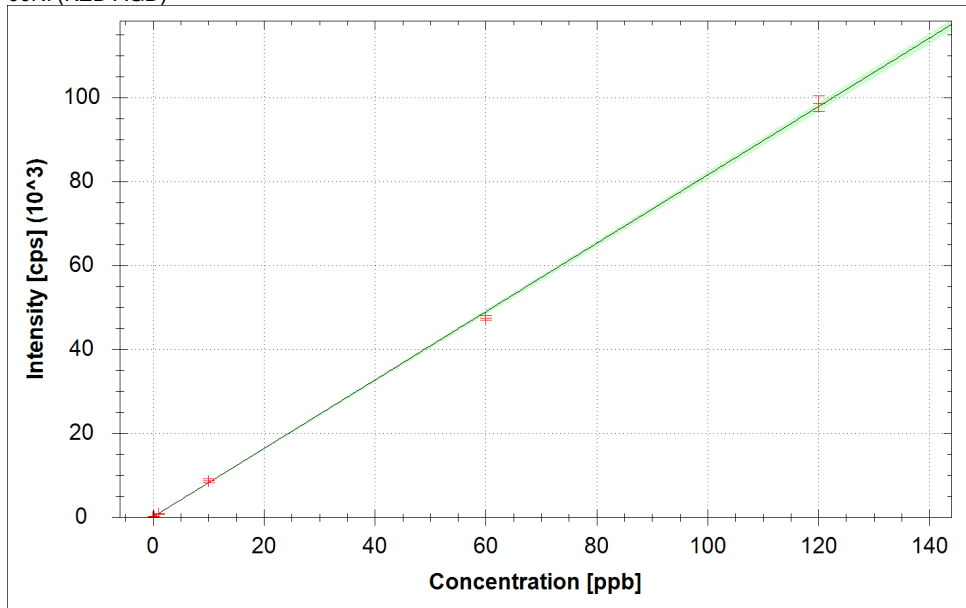


59Co (KED AGD)



$f(x) = 3019.2821 \cdot x + 42.0888$
 $R^2 = 0.9997$
BEC = 0.014 ppb
LoD = 0.0145 ppb

60Ni (KED AGD)



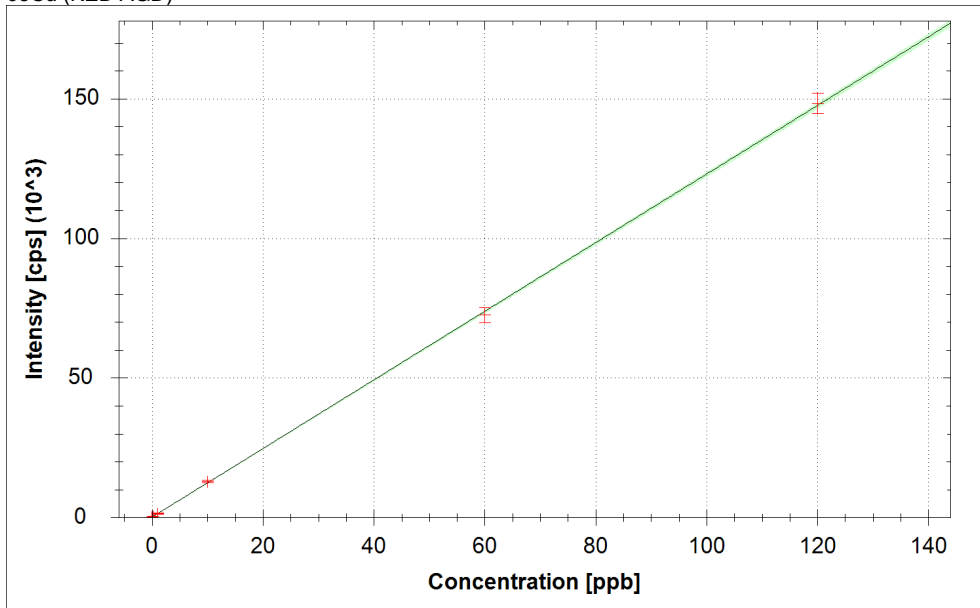
$f(x) = 814.3485 \cdot x + 134.9536$
 $R^2 = 0.9996$
BEC = 0.166 ppb
LoD = 0.0985 ppb

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM

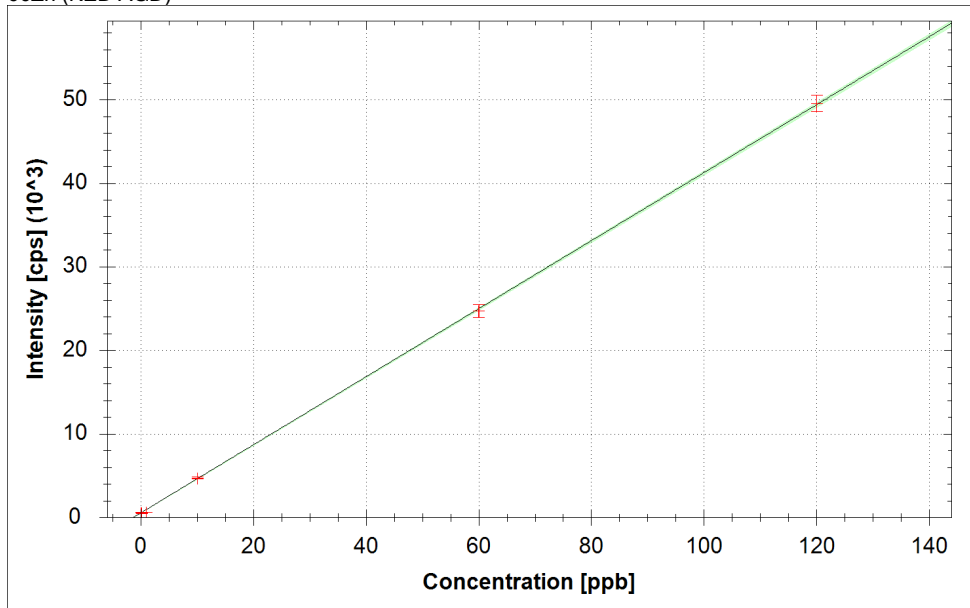


65Cu (KED AGD)



$f(x) = 1228.6743 \cdot x + 119.8403$
 $R^2 = 0.9999$
BEC = 0.098 ppb
LoD = 0.0373 ppb

66Zn (KED AGD)



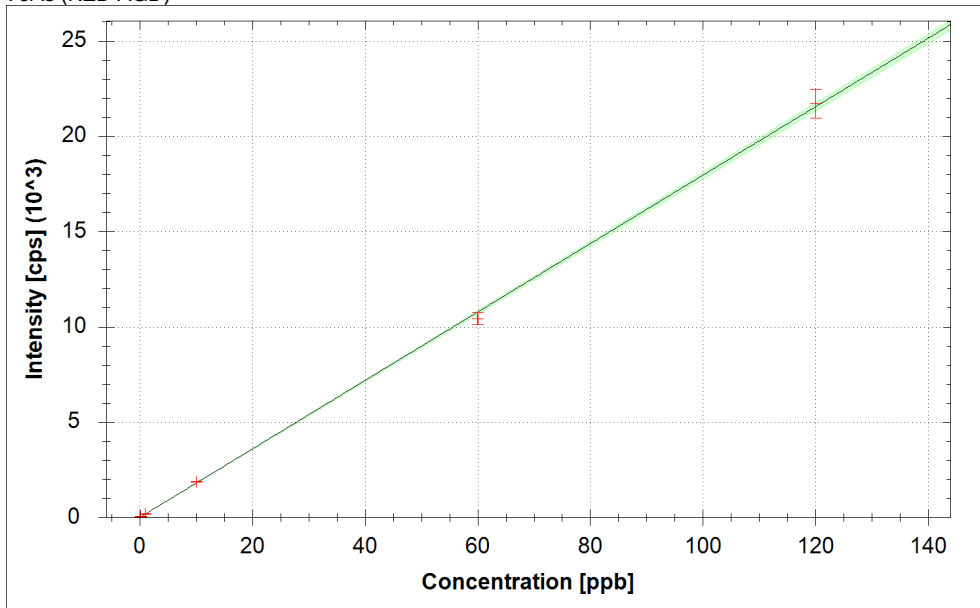
$f(x) = 406.8206 \cdot x + 557.4924$
 $R^2 = 0.9999$
BEC = 1.370 ppb
LoD = 0.2039 ppb

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM

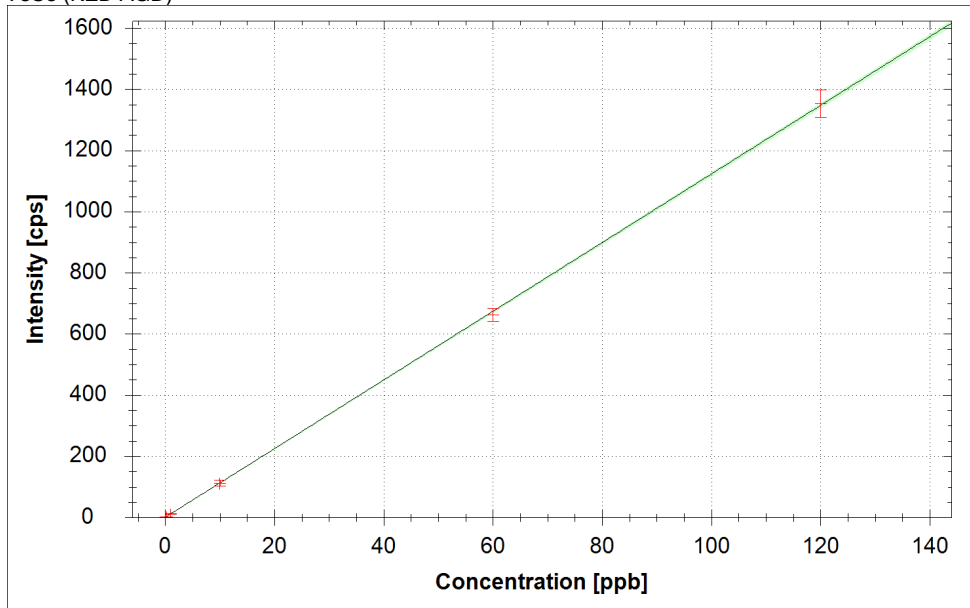


75As (KED AGD)



$f(x) = 179.4295x + 6.1529$
 $R^2 = 0.9996$
BEC = 0.034 ppb
LoD = 0.0422 ppb

78Se (KED AGD)



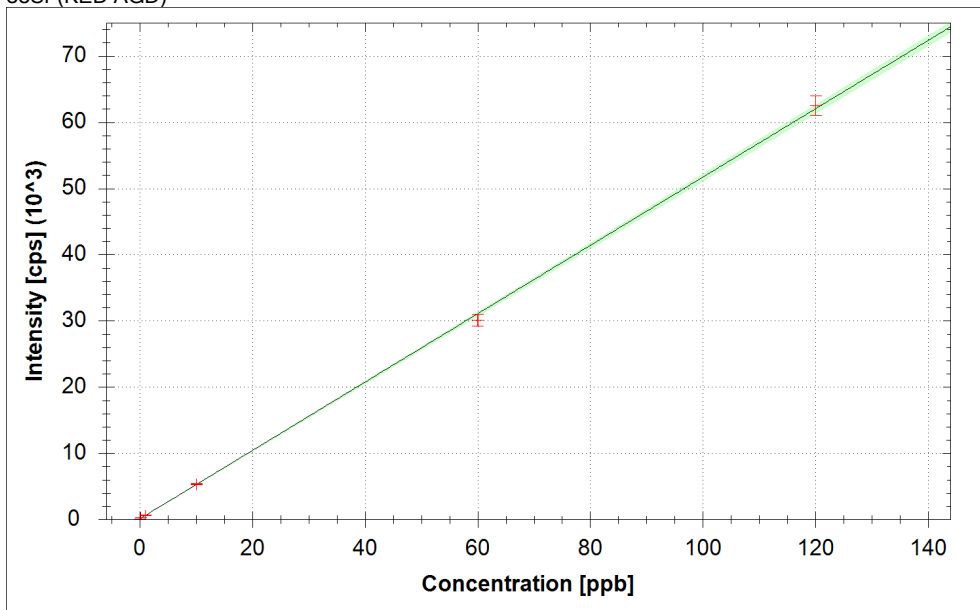
$f(x) = 11.2228x + 0.5021$
 $R^2 = 0.9999$
BEC = 0.045 ppb
LoD = 0.1224 ppb

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM

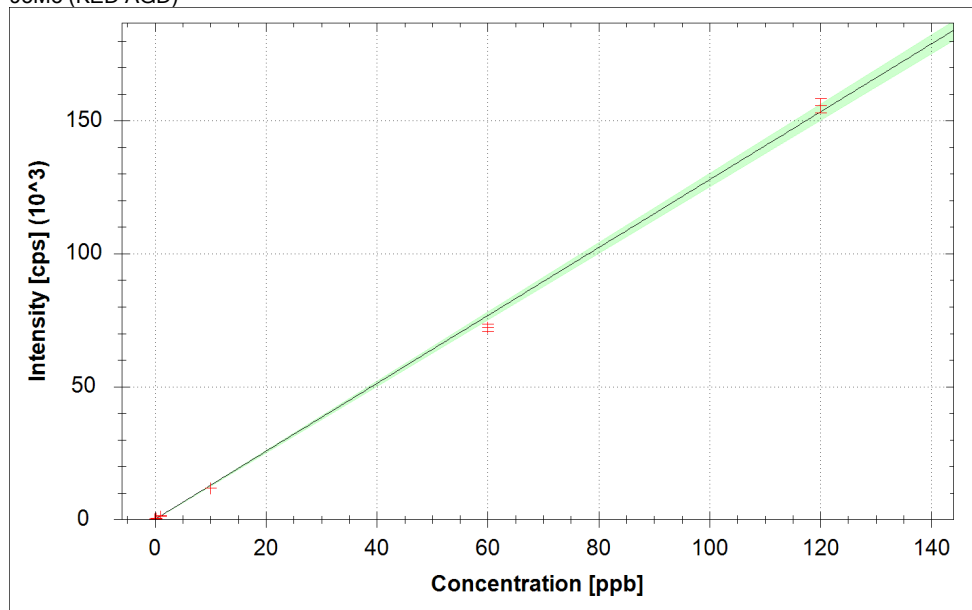


88Sr (KED AGD)



$f(x) = 515.9829 \cdot x + 104.6480$
 $R^2 = 0.9996$
BEC = 0.203 ppb
LoD = 0.0325 ppb

95Mo (KED AGD)



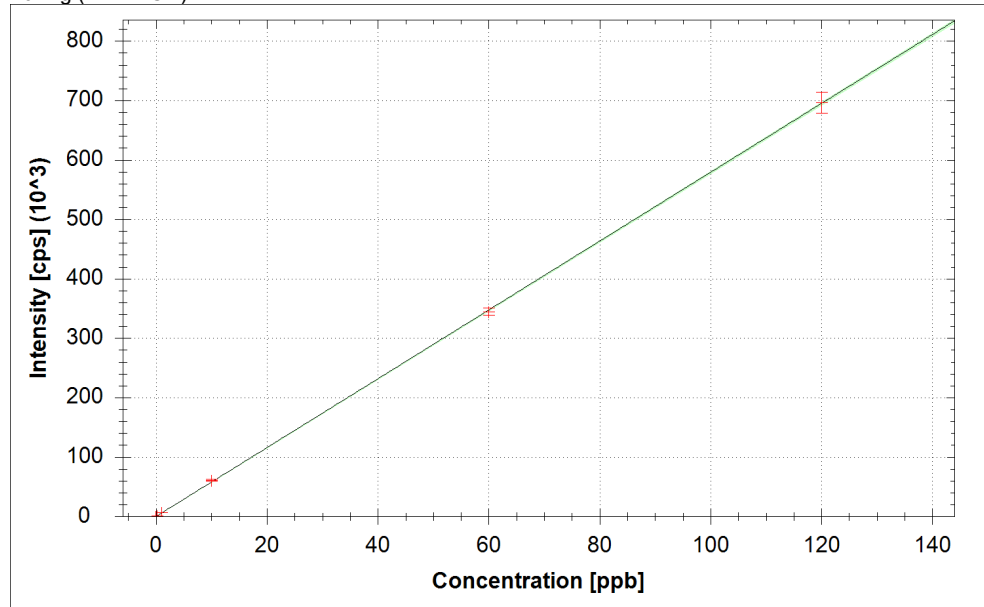
$f(x) = 1277.0768 \cdot x + 70.9807$
 $R^2 = 0.9986$
BEC = 0.056 ppb
LoD = 0.0297 ppb

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM

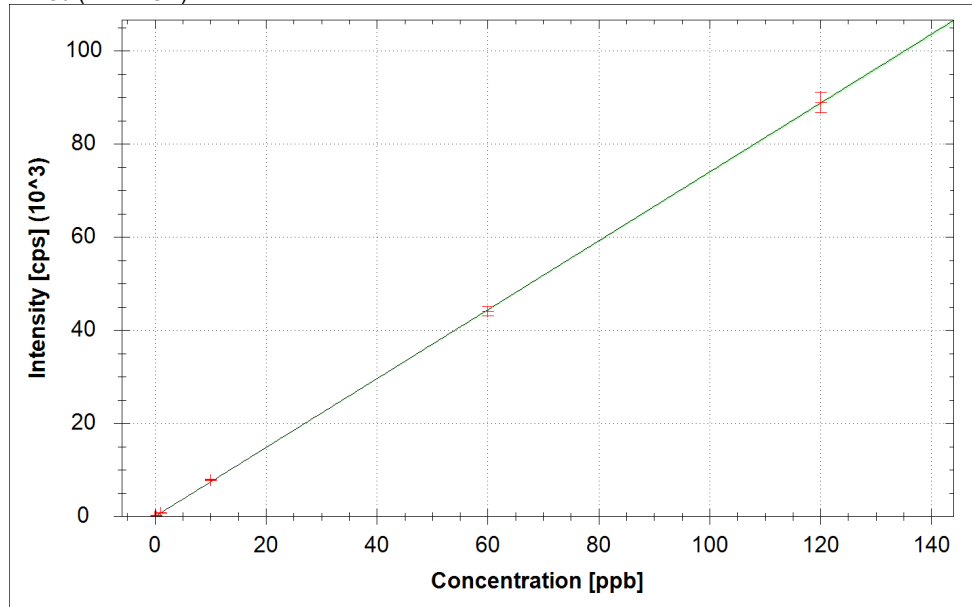


107Ag (KED AGD)



$f(x) = 5789.9656 \cdot x + 44.3530$
 $R^2 = 1.0000$
BEC = 0.008 ppb
LoD = 0.0082 ppb

111Cd (KED AGD)



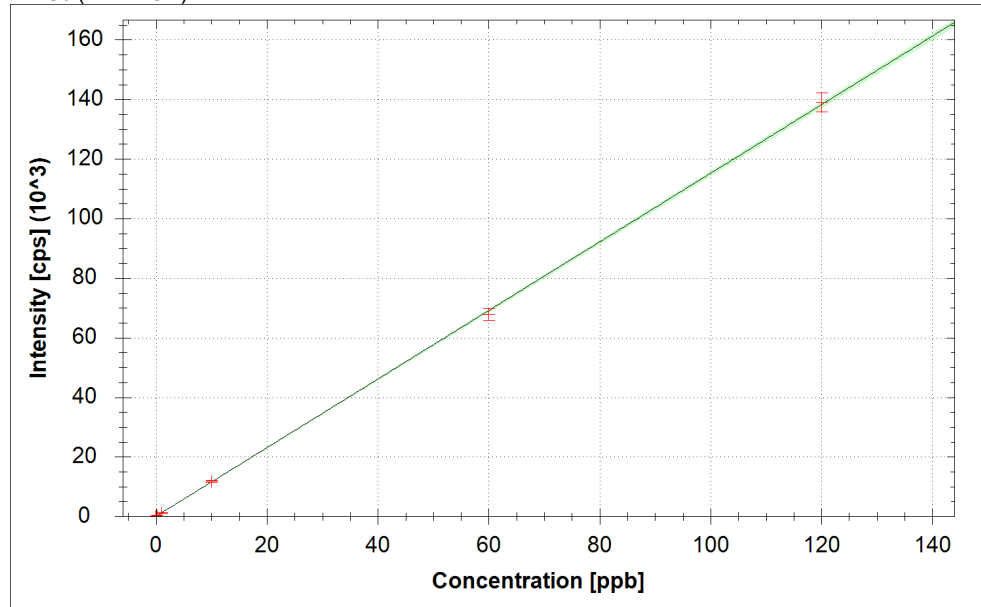
$f(x) = 739.5629 \cdot x + 7.1570$
 $R^2 = 1.0000$
BEC = 0.010 ppb
LoD = 0.0119 ppb

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM

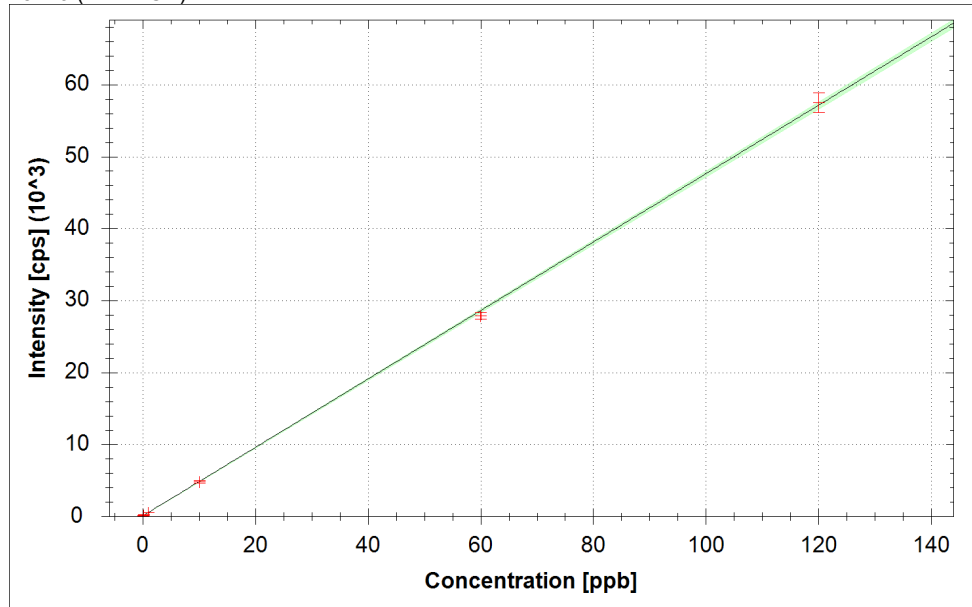


121Sb (KED AGD)



$f(x) = 1150.8701 \cdot x + 72.5774$
 $R^2 = 0.9998$
BEC = 0.063 ppb
LoD = 0.0416 ppb

137Ba (KED AGD)



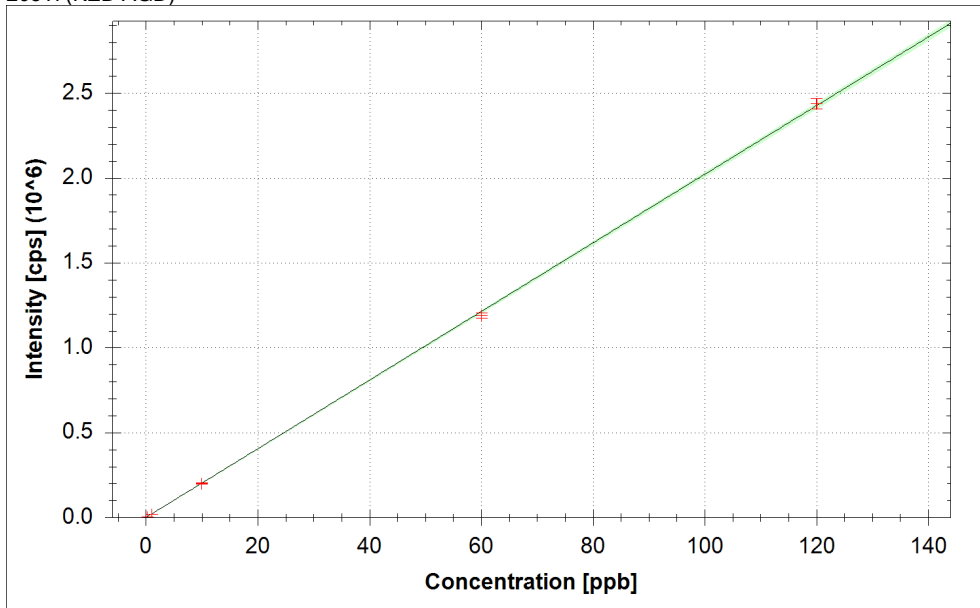
$f(x) = 475.0861 \cdot x + 97.3984$
 $R^2 = 0.9997$
BEC = 0.205 ppb
LoD = 0.1168 ppb

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM

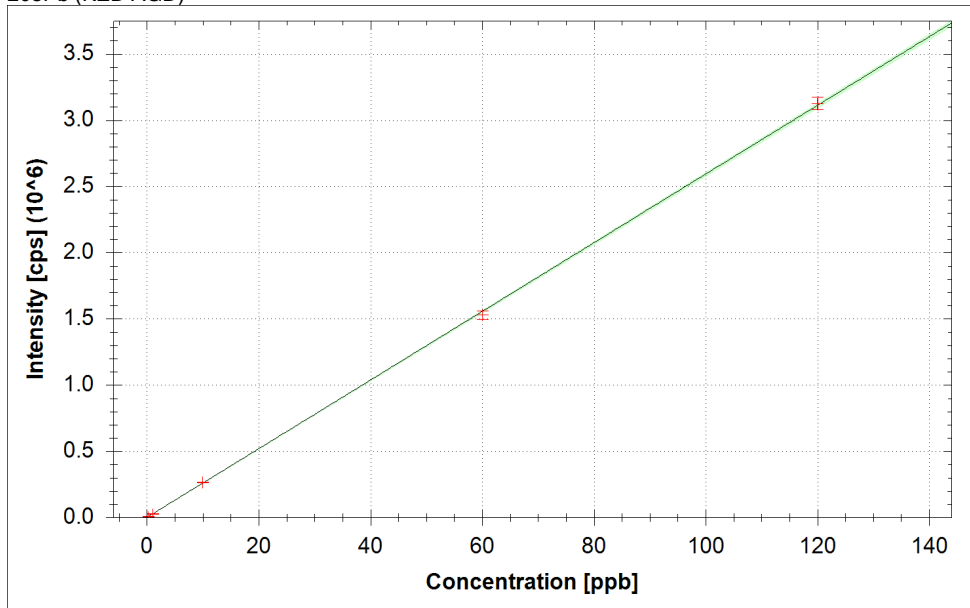


205TI (KED AGD)



$f(x) = 20207.9265 \cdot x + 391.2299$
 $R^2 = 0.9998$
BEC = 0.019 ppb
LoD = 0.0105 ppb

208Pb (KED AGD)



$f(x) = 25924.4596 \cdot x + 554.6888$
 $R^2 = 0.9999$
BEC = 0.021 ppb
LoD = 0.0018 ppb

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Standards:

Analysis Index: 4
 Analysis Name: 0.2/20 Cal
 Analysis Type: STD
 Analysis Started at: 8/13/2023 8:44:02 AM
 Total Dilution Factor: 50000
 Rack: 0
 Vial: 2

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	98.327 %	1.4 %	
6Li (KED AGD)	93.891 %	7.5 %	
9Be (STD AGD)	0.201 ppb	3.4 %	0.200 ppb
23Na (KED AGD)	19.103 ppb	9.7 %	20.000 ppb
24Mg (KED AGD)	22.848 ppb	13.4 %	20.000 ppb
27Al (KED AGD)	-0.108 ppb	514.2 %	0.200 ppb
39K (KED AGD)	8.917 ppb	27.7 %	20.000 ppb
44Ca (KED AGD)	231.418 ppb	3.8 %	20.000 ppb
45Sc (STD AGD)	97.406 %	1.2 %	
51V (KED AGD)	0.184 ppb	34.5 %	0.200 ppb
52Cr (KED AGD)	0.199 ppb	15.9 %	0.200 ppb
55Mn (KED AGD)	0.009 ppb	428.7 %	0.200 ppb
57Fe (KED AGD)	18.652 ppb	25.3 %	20.000 ppb
59Co (KED AGD)	0.207 ppb	3.3 %	0.200 ppb
60Ni (KED AGD)	0.141 ppb	24.2 %	0.200 ppb
65Cu (KED AGD)	0.165 ppb	1.6 %	0.200 ppb
66Zn (KED AGD)	-0.170 ppb	38.3 %	0.200 ppb
74Ge (KED AGD)	101.744 %	2.7 %	
75As (KED AGD)	0.220 ppb	10.3 %	0.200 ppb
78Se (KED AGD)	0.105 ppb	41.7 %	0.200 ppb
88Sr (KED AGD)	0.274 ppb	6.9 %	0.200 ppb
95Mo (KED AGD)	0.198 ppb	20.9 %	0.200 ppb
103Rh (KED AGD)	99.110 %	3.1 %	
107Ag (KED AGD)	0.204 ppb	7.6 %	0.200 ppb
111Cd (KED AGD)	0.220 ppb	4.6 %	0.200 ppb
115In (KED AGD)	100.352 %	3.4 %	
121Sb (KED AGD)	0.195 ppb	3.7 %	0.200 ppb
137Ba (KED AGD)	0.214 ppb	24.1 %	0.200 ppb
159Tb (KED AGD)	97.322 %	3.0 %	
175Lu (KED AGD)	98.332 %	1.9 %	
205Tl (KED AGD)	0.197 ppb	5.0 %	0.200 ppb
208Pb (KED AGD)	0.207 ppb	7.5 %	0.200 ppb
209Bi (KED AGD)	99.034 %	1.9 %	

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Standards:

Analysis Index: 5
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 8/13/2023 8:48:30 AM
Total Dilution Factor: 10000
Rack: 0
Vial: 3

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	97.733 %	0.4 %	
6Li (KED AGD)	98.684 %	5.1 %	
9Be (STD AGD)	1.048 ppb	3.5 %	1.000 ppb
23Na (KED AGD)	93.992 ppb	5.3 %	100.000 ppb
24Mg (KED AGD)	100.569 ppb	2.7 %	100.000 ppb
27Al (KED AGD)	0.411 ppb	43.3 %	1.000 ppb
39K (KED AGD)	86.001 ppb	8.5 %	100.000 ppb
44Ca (KED AGD)	156.920 ppb	13.2 %	100.000 ppb
45Sc (STD AGD)	98.141 %	1.1 %	
51V (KED AGD)	1.031 ppb	4.5 %	1.000 ppb
52Cr (KED AGD)	0.953 ppb	9.9 %	1.000 ppb
55Mn (KED AGD)	0.726 ppb	11.7 %	1.000 ppb
57Fe (KED AGD)	93.071 ppb	5.9 %	100.000 ppb
59Co (KED AGD)	0.985 ppb	4.2 %	1.000 ppb
60Ni (KED AGD)	0.884 ppb	7.6 %	1.000 ppb
65Cu (KED AGD)	0.961 ppb	15.8 %	1.000 ppb
66Zn (KED AGD)	0.129 ppb	30.0 %	1.000 ppb
74Ge (KED AGD)	100.363 %	4.7 %	
75As (KED AGD)	0.976 ppb	15.6 %	1.000 ppb
78Se (KED AGD)	0.941 ppb	11.7 %	1.000 ppb
88Sr (KED AGD)	0.977 ppb	3.2 %	1.000 ppb
95Mo (KED AGD)	0.892 ppb	9.5 %	1.000 ppb
103Rh (KED AGD)	98.913 %	3.3 %	
107Ag (KED AGD)	0.995 ppb	0.9 %	1.000 ppb
111Cd (KED AGD)	0.996 ppb	8.0 %	1.000 ppb
115In (KED AGD)	98.852 %	3.0 %	
121Sb (KED AGD)	0.938 ppb	2.6 %	1.000 ppb
137Ba (KED AGD)	0.913 ppb	6.8 %	1.000 ppb
159Tb (KED AGD)	97.841 %	4.5 %	
175Lu (KED AGD)	98.541 %	4.0 %	
205Tl (KED AGD)	0.916 ppb	1.5 %	1.000 ppb
208Pb (KED AGD)	0.960 ppb	2.1 %	1.000 ppb
209Bi (KED AGD)	98.667 %	3.4 %	

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Standards:

Analysis Index: 6
Analysis Name: 10/1000 Cal
Analysis Type: STD
Analysis Started at: 8/13/2023 8:52:58 AM
Total Dilution Factor: 1000
Rack: 0
Vial: 4

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	99.611 %	0.6 %	
6Li (KED AGD)	101.316 %	6.3 %	
9Be (STD AGD)	10.487 ppb	1.3 %	10.000 ppb
23Na (KED AGD)	1,011.037 ppb	4.9 %	1,000.000 ppb
24Mg (KED AGD)	1,015.008 ppb	3.6 %	1,000.000 ppb
27Al (KED AGD)	11.111 ppb	7.6 %	10.000 ppb
39K (KED AGD)	1,001.327 ppb	2.2 %	1,000.000 ppb
44Ca (KED AGD)	1,084.704 ppb	3.9 %	1,000.000 ppb
45Sc (STD AGD)	97.582 %	1.2 %	
51V (KED AGD)	10.009 ppb	5.1 %	10.000 ppb
52Cr (KED AGD)	10.366 ppb	1.9 %	10.000 ppb
55Mn (KED AGD)	10.465 ppb	2.9 %	10.000 ppb
57Fe (KED AGD)	1,040.444 ppb	2.1 %	1,000.000 ppb
59Co (KED AGD)	10.568 ppb	2.0 %	10.000 ppb
60Ni (KED AGD)	10.489 ppb	5.7 %	10.000 ppb
65Cu (KED AGD)	10.373 ppb	3.2 %	10.000 ppb
66Zn (KED AGD)	10.208 ppb	3.2 %	10.000 ppb
74Ge (KED AGD)	100.675 %	1.0 %	
75As (KED AGD)	10.382 ppb	1.3 %	10.000 ppb
78Se (KED AGD)	9.907 ppb	8.9 %	10.000 ppb
88Sr (KED AGD)	10.098 ppb	1.3 %	10.000 ppb
95Mo (KED AGD)	9.192 ppb	0.1 %	10.000 ppb
103Rh (KED AGD)	97.396 %	3.3 %	
107Ag (KED AGD)	10.464 ppb	2.6 %	10.000 ppb
111Cd (KED AGD)	10.604 ppb	2.0 %	10.000 ppb
115In (KED AGD)	99.490 %	3.3 %	
121Sb (KED AGD)	10.121 ppb	2.9 %	10.000 ppb
137Ba (KED AGD)	9.928 ppb	3.9 %	10.000 ppb
159Tb (KED AGD)	97.916 %	3.9 %	
175Lu (KED AGD)	98.668 %	2.8 %	
205Tl (KED AGD)	9.868 ppb	1.0 %	10.000 ppb
208Pb (KED AGD)	10.166 ppb	1.0 %	10.000 ppb
209Bi (KED AGD)	98.608 %	2.4 %	

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Standards:

Analysis Index: 7
 Analysis Name: 60/6000 Cal
 Analysis Type: STD
 Analysis Started at: 8/13/2023 8:57:27 AM
 Total Dilution Factor: 166.6666666
 Rack: 0
 Vial: 5

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	97.703 %	0.4 %	
6Li (KED AGD)	99.812 %	6.5 %	
9Be (STD AGD)	59.016 ppb	1.1 %	60.000 ppb
23Na (KED AGD)	5,771.777 ppb	5.5 %	6,000.000 ppb
24Mg (KED AGD)	5,772.736 ppb	6.9 %	6,000.000 ppb
27Al (KED AGD)	62.797 ppb	9.2 %	60.000 ppb
39K (KED AGD)	5,721.325 ppb	3.7 %	6,000.000 ppb
44Ca (KED AGD)	5,861.975 ppb	5.6 %	6,000.000 ppb
45Sc (STD AGD)	99.350 %	0.5 %	
51V (KED AGD)	57.678 ppb	4.1 %	60.000 ppb
52Cr (KED AGD)	57.628 ppb	4.7 %	60.000 ppb
55Mn (KED AGD)	57.745 ppb	4.2 %	60.000 ppb
57Fe (KED AGD)	5,838.786 ppb	4.1 %	6,000.000 ppb
59Co (KED AGD)	58.401 ppb	4.4 %	60.000 ppb
60Ni (KED AGD)	58.186 ppb	1.1 %	60.000 ppb
65Cu (KED AGD)	58.853 ppb	3.6 %	60.000 ppb
66Zn (KED AGD)	59.319 ppb	3.2 %	60.000 ppb
74Ge (KED AGD)	100.388 %	3.6 %	
75As (KED AGD)	58.078 ppb	3.1 %	60.000 ppb
78Se (KED AGD)	58.982 ppb	3.3 %	60.000 ppb
88Sr (KED AGD)	58.113 ppb	3.0 %	60.000 ppb
95Mo (KED AGD)	56.458 ppb	1.9 %	60.000 ppb
103Rh (KED AGD)	95.074 %	3.4 %	
107Ag (KED AGD)	59.444 ppb	1.7 %	60.000 ppb
111Cd (KED AGD)	59.578 ppb	2.2 %	60.000 ppb
115In (KED AGD)	96.427 %	3.6 %	
121Sb (KED AGD)	58.754 ppb	2.9 %	60.000 ppb
137Ba (KED AGD)	58.410 ppb	1.6 %	60.000 ppb
159Tb (KED AGD)	97.342 %	3.5 %	
175Lu (KED AGD)	98.397 %	3.8 %	
205Tl (KED AGD)	58.803 ppb	1.3 %	60.000 ppb
208Pb (KED AGD)	58.936 ppb	2.1 %	60.000 ppb
209Bi (KED AGD)	94.688 %	2.5 %	

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Standards:

Analysis Index: 8
 Analysis Name: 120/12000 Cal
 Analysis Type: STD
 Analysis Started at: 8/13/2023 9:01:57 AM
 Total Dilution Factor: 83.33333333
 Rack: 0
 Vial: 6

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	94.483 %	0.2 %	
6Li (KED AGD)	94.737 %	3.1 %	
9Be (STD AGD)	120.451 ppb	0.3 %	120.000 ppb
23Na (KED AGD)	12,113.244 ppb	3.4 %	12,000.000 ppb
24Mg (KED AGD)	12,112.372 ppb	3.2 %	12,000.000 ppb
27Al (KED AGD)	118.514 ppb	1.4 %	120.000 ppb
39K (KED AGD)	12,139.362 ppb	2.5 %	12,000.000 ppb
44Ca (KED AGD)	12,061.127 ppb	2.2 %	12,000.000 ppb
45Sc (STD AGD)	98.640 %	1.0 %	
51V (KED AGD)	121.160 ppb	1.0 %	120.000 ppb
52Cr (KED AGD)	121.156 ppb	0.9 %	120.000 ppb
55Mn (KED AGD)	121.091 ppb	0.8 %	120.000 ppb
57Fe (KED AGD)	12,077.297 ppb	0.8 %	12,000.000 ppb
59Co (KED AGD)	120.752 ppb	1.6 %	120.000 ppb
60Ni (KED AGD)	120.867 ppb	1.9 %	120.000 ppb
65Cu (KED AGD)	120.543 ppb	2.4 %	120.000 ppb
66Zn (KED AGD)	120.331 ppb	2.0 %	120.000 ppb
74Ge (KED AGD)	96.675 %	2.9 %	
75As (KED AGD)	120.929 ppb	3.5 %	120.000 ppb
78Se (KED AGD)	120.517 ppb	3.3 %	120.000 ppb
88Sr (KED AGD)	120.935 ppb	2.4 %	120.000 ppb
95Mo (KED AGD)	121.839 ppb	1.7 %	120.000 ppb
103Rh (KED AGD)	91.914 %	3.0 %	
107Ag (KED AGD)	120.239 ppb	2.6 %	120.000 ppb
111Cd (KED AGD)	120.161 ppb	2.4 %	120.000 ppb
115In (KED AGD)	94.109 %	4.0 %	
121Sb (KED AGD)	120.613 ppb	2.3 %	120.000 ppb
137Ba (KED AGD)	120.802 ppb	2.4 %	120.000 ppb
159Tb (KED AGD)	95.877 %	4.2 %	
175Lu (KED AGD)	98.422 %	3.3 %	
205Tl (KED AGD)	120.610 ppb	1.3 %	120.000 ppb
208Pb (KED AGD)	120.518 ppb	1.5 %	120.000 ppb
209Bi (KED AGD)	91.945 %	2.7 %	

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 1 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: Rinse Rack 0
 Analysis started at: 8/13/2023 8:30:35 AM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.064 %	104.793 %	0.013 ppb	1.800 ppb	-0.320 ppb	0.764 ppb	-3.273 ppb	-1.352 ppb	101.133 %
Concentration per Run 1	100.070 %	106.297 %	0.017 ppb	1.053 ppb	-0.061 ppb	1.111 ppb	-5.780 ppb	2.314 ppb	100.687 %
Concentration per Run 2	101.233 %	104.605 %	0.011 ppb	2.593 ppb	0.181 ppb	0.785 ppb	-4.867 ppb	1.395 ppb	100.578 %
Concentration per Run 3	101.890 %	103.477 %	0.013 ppb	1.754 ppb	-1.081 ppb	0.397 ppb	0.828 ppb	-7.766 ppb	102.135 %
Concentration RSD	0.9 %	1.4 %	22.2 %	42.9 %	209.3 %	46.7 %	109.4 %	412.1 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.014 ppb	0.084 ppb	0.106 ppb	77.752 ppb	0.004 ppb	0.406 ppb	0.143 ppb	1.957 ppb	98.359 %
Concentration per Run 1	-0.003 ppb	0.075 ppb	0.099 ppb	81.125 ppb	-0.007 ppb	0.386 ppb	0.144 ppb	1.858 ppb	97.563 %
Concentration per Run 2	0.011 ppb	0.077 ppb	0.108 ppb	79.450 ppb	-0.001 ppb	0.375 ppb	0.164 ppb	1.848 ppb	98.823 %
Concentration per Run 3	0.033 ppb	0.101 ppb	0.110 ppb	72.681 ppb	0.019 ppb	0.458 ppb	0.121 ppb	2.166 ppb	98.690 %
Concentration RSD	129.5 %	16.8 %	5.3 %	5.7 %	367.8 %	11.2 %	15.0 %	9.3 %	0.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.014 ppb	0.010 ppb	0.016 ppb	0.036 ppb	99.745 %	0.012 ppb	0.007 ppb	99.153 %	0.063 ppb
Concentration per Run 1	-0.006 ppb	0.013 ppb	0.015 ppb	0.036 ppb	96.825 %	0.009 ppb	0.002 ppb	95.118 %	0.057 ppb
Concentration per Run 2	0.017 ppb	-0.015 ppb	0.012 ppb	0.039 ppb	99.895 %	0.017 ppb	0.003 ppb	99.599 %	0.072 ppb
Concentration per Run 3	0.032 ppb	0.032 ppb	0.021 ppb	0.032 ppb	102.513 %	0.009 ppb	0.015 ppb	102.741 %	0.059 ppb
Concentration RSD	130.6 %	235.5 %	29.2 %	9.7 %	2.9 %	41.3 %	112.3 %	3.9 %	12.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.099 ppb	99.279 %	99.086 %	0.015 ppb	0.018 ppb	99.148 %
Concentration per Run 1	0.065 ppb	97.521 %	95.340 %	0.010 ppb	0.020 ppb	95.672 %
Concentration per Run 2	0.127 ppb	99.277 %	100.185 %	0.017 ppb	0.016 ppb	100.674 %
Concentration per Run 3	0.105 ppb	101.039 %	101.734 %	0.019 ppb	0.019 ppb	101.098 %
Concentration RSD	31.9 %	1.8 %	3.4 %	30.4 %	11.2 %	3.0 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 2 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CAL LOT #M22-1194 Rack 0
 Analysis started at: 8/13/2023 8:35:02 AM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.028 %	103.853 %	0.010 ppb	0.316 ppb	-0.567 ppb	0.838 ppb	-5.830 ppb	-3.979 ppb	100.529 %
Concentration per Run 1	99.679 %	101.786 %	0.010 ppb	0.148 ppb	-2.563 ppb	0.942 ppb	-4.229 ppb	4.101 ppb	98.724 %
Concentration per Run 2	100.147 %	100.094 %	0.008 ppb	1.111 ppb	2.240 ppb	1.382 ppb	-6.864 ppb	-9.587 ppb	100.592 %
Concentration per Run 3	100.259 %	109.681 %	0.011 ppb	-0.311 ppb	-1.378 ppb	0.188 ppb	-6.397 ppb	-6.450 ppb	102.272 %
Concentration RSD	0.3 %	4.9 %	15.2 %	229.9 %	441.4 %	72.1 %	24.1 %	180.2 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.009 ppb	0.085 ppb	0.133 ppb	81.083 ppb	0.005 ppb	0.398 ppb	0.098 ppb	1.841 ppb	102.742 %
Concentration per Run 1	-0.003 ppb	0.091 ppb	0.093 ppb	81.419 ppb	0.017 ppb	0.538 ppb	0.101 ppb	2.016 ppb	101.061 %
Concentration per Run 2	-0.024 ppb	0.082 ppb	0.227 ppb	92.509 ppb	0.001 ppb	0.396 ppb	0.099 ppb	1.705 ppb	102.605 %
Concentration per Run 3	0.000 ppb	0.084 ppb	0.080 ppb	69.323 ppb	-0.001 ppb	0.261 ppb	0.093 ppb	1.802 ppb	104.559 %
Concentration RSD	145.9 %	5.6 %	60.9 %	14.3 %	178.0 %	34.8 %	4.1 %	8.6 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.017 ppb	0.015 ppb	0.009 ppb	0.036 ppb	99.902 %	0.009 ppb	0.011 ppb	100.438 %	0.073 ppb
Concentration per Run 1	0.007 ppb	-0.017 ppb	0.012 ppb	0.008 ppb	97.470 %	0.009 ppb	0.011 ppb	97.611 %	0.073 ppb
Concentration per Run 2	0.002 ppb	0.059 ppb	0.014 ppb	0.036 ppb	101.940 %	0.005 ppb	0.008 ppb	100.778 %	0.080 ppb
Concentration per Run 3	0.041 ppb	0.004 ppb	0.002 ppb	0.063 ppb	100.297 %	0.011 ppb	0.013 ppb	102.924 %	0.067 ppb
Concentration RSD	127.5 %	258.3 %	65.1 %	76.5 %	2.3 %	34.1 %	24.1 %	2.7 %	8.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.098 ppb	99.083 %	100.346 %	0.010 ppb	0.015 ppb	100.188 %
Concentration per Run 1	0.107 ppb	95.611 %	96.774 %	0.007 ppb	0.015 ppb	98.580 %
Concentration per Run 2	0.088 ppb	100.196 %	102.056 %	0.014 ppb	0.015 ppb	100.690 %
Concentration per Run 3	0.097 ppb	101.443 %	102.207 %	0.009 ppb	0.016 ppb	101.294 %
Concentration RSD	9.8 %	3.1 %	3.1 %	35.0 %	5.1 %	1.4 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 3 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: Blank SMV ICPMSQ2 Rack 4
 Analysis started at: 8/13/2023 8:39:30 AM Vial 49

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.0 %	0.5 %	0.0 %	0.1 %	0.3 %	0.2 %	0.2 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.2 %	0.1 %	0.1 %	0.2 %	0.3 %	0.2 %	0.1 %	0.0 %	0.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration RSD	0.4 %	0.9 %	0.1 %	0.2 %	0.0 %	0.4 %	0.4 %	0.0 %	0.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.2 %	0.0 %	0.0 %	0.2 %	0.0 %	0.0 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 4 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: 0.2/20 Cal Rack 0
 Analysis started at: 8/13/2023 8:44:02 AM Vial 2

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.327 %	93.891 %	0.201 ppb	19.103 ppb	22.848 ppb	-0.108 ppb	8.917 ppb	231.418 ppb	97.406 %
Concentration per Run 1	99.754 %	87.688 %	0.208 ppb	19.622 ppb	25.238 ppb	-0.734 ppb	11.766 ppb	236.060 ppb	98.733 %
Concentration per Run 2	98.230 %	101.504 %	0.203 ppb	17.042 ppb	23.907 ppb	0.326 ppb	7.428 ppb	221.303 ppb	96.461 %
Concentration per Run 3	96.997 %	92.481 %	0.194 ppb	20.646 ppb	19.401 ppb	0.084 ppb	7.557 ppb	236.890 ppb	97.024 %
Concentration RSD	1.4 %	7.5 %	3.4 %	9.7 %	13.4 %	514.2 %	27.7 %	3.8 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.184 ppb	0.199 ppb	0.009 ppb	18.652 ppb	0.207 ppb	0.141 ppb	0.165 ppb	-0.170 ppb	101.744 %
Concentration per Run 1	0.150 ppb	0.215 ppb	0.020 ppb	21.798 ppb	0.212 ppb	0.105 ppb	0.164 ppb	-0.150 ppb	99.138 %
Concentration per Run 2	0.145 ppb	0.162 ppb	-0.033 ppb	13.221 ppb	0.209 ppb	0.173 ppb	0.163 ppb	-0.242 ppb	104.654 %
Concentration per Run 3	0.257 ppb	0.219 ppb	0.040 ppb	20.936 ppb	0.199 ppb	0.147 ppb	0.168 ppb	-0.117 ppb	101.439 %
Concentration RSD	34.5 %	15.9 %	428.7 %	25.3 %	3.3 %	24.2 %	1.6 %	38.3 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.220 ppb	0.105 ppb	0.274 ppb	0.198 ppb	99.110 %	0.204 ppb	0.220 ppb	100.352 %	0.195 ppb
Concentration per Run 1	0.205 ppb	0.067 ppb	0.294 ppb	0.236 ppb	95.514 %	0.221 ppb	0.231 ppb	97.105 %	0.193 ppb
Concentration per Run 2	0.246 ppb	0.153 ppb	0.273 ppb	0.154 ppb	101.015 %	0.190 ppb	0.213 ppb	99.971 %	0.189 ppb
Concentration per Run 3	0.208 ppb	0.096 ppb	0.256 ppb	0.203 ppb	100.800 %	0.201 ppb	0.215 ppb	103.980 %	0.203 ppb
Concentration RSD	10.3 %	41.7 %	6.9 %	20.9 %	3.1 %	7.6 %	4.6 %	3.4 %	3.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.214 ppb	97.322 %	98.332 %	0.197 ppb	0.207 ppb	99.034 %
Concentration per Run 1	0.198 ppb	94.510 %	96.230 %	0.186 ppb	0.224 ppb	96.943 %
Concentration per Run 2	0.272 ppb	97.161 %	98.815 %	0.205 ppb	0.195 ppb	99.527 %
Concentration per Run 3	0.173 ppb	100.295 %	99.952 %	0.200 ppb	0.202 ppb	100.632 %
Concentration RSD	24.1 %	3.0 %	1.9 %	5.0 %	7.5 %	1.9 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 5 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: 1/100 Cal Rack 0
 Analysis started at: 8/13/2023 8:48:30 AM Vial 3

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.733 %	98.684 %	1.048 ppb	93.992 ppb	100.569 ppb	0.411 ppb	86.001 ppb	156.920 ppb	98.141 %
Concentration per Run 1	97.309 %	94.173 %	1.006 ppb	98.414 ppb	103.699 ppb	0.424 ppb	93.768 ppb	180.032 ppb	97.307 %
Concentration per Run 2	97.846 %	104.041 %	1.069 ppb	88.553 ppb	99.032 ppb	0.582 ppb	79.247 ppb	150.843 ppb	99.297 %
Concentration per Run 3	98.045 %	97.838 %	1.069 ppb	95.008 ppb	98.977 ppb	0.227 ppb	84.987 ppb	139.885 ppb	97.818 %
Concentration RSD	0.4 %	5.1 %	3.5 %	5.3 %	2.7 %	43.3 %	8.5 %	13.2 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.031 ppb	0.953 ppb	0.726 ppb	93.071 ppb	0.985 ppb	0.884 ppb	0.961 ppb	0.129 ppb	100.363 %
Concentration per Run 1	1.084 ppb	0.928 ppb	0.820 ppb	98.201 ppb	1.032 ppb	0.888 ppb	0.995 ppb	0.174 ppb	94.947 %
Concentration per Run 2	0.998 ppb	0.873 ppb	0.705 ppb	87.311 ppb	0.961 ppb	0.950 ppb	0.794 ppb	0.103 ppb	103.323 %
Concentration per Run 3	1.010 ppb	1.057 ppb	0.654 ppb	93.701 ppb	0.961 ppb	0.815 ppb	1.092 ppb	0.111 ppb	102.819 %
Concentration RSD	4.5 %	9.9 %	11.7 %	5.9 %	4.2 %	7.6 %	15.8 %	30.0 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.976 ppb	0.941 ppb	0.977 ppb	0.892 ppb	98.913 %	0.995 ppb	0.996 ppb	98.852 %	0.938 ppb
Concentration per Run 1	1.130 ppb	1.017 ppb	1.004 ppb	0.806 ppb	95.185 %	1.001 ppb	1.070 ppb	95.397 %	0.954 ppb
Concentration per Run 2	0.825 ppb	0.815 ppb	0.943 ppb	0.976 ppb	101.131 %	0.999 ppb	0.911 ppb	100.649 %	0.909 ppb
Concentration per Run 3	0.974 ppb	0.992 ppb	0.985 ppb	0.895 ppb	100.422 %	0.985 ppb	1.008 ppb	100.510 %	0.950 ppb
Concentration RSD	15.6 %	11.7 %	3.2 %	9.5 %	3.3 %	0.9 %	8.0 %	3.0 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.913 ppb	97.841 %	98.541 %	0.916 ppb	0.960 ppb	98.667 %
Concentration per Run 1	0.921 ppb	92.747 %	94.037 %	0.918 ppb	0.980 ppb	95.007 %
Concentration per Run 2	0.970 ppb	99.964 %	100.781 %	0.929 ppb	0.939 ppb	99.525 %
Concentration per Run 3	0.848 ppb	100.813 %	100.806 %	0.902 ppb	0.961 ppb	101.468 %
Concentration RSD	6.8 %	4.5 %	4.0 %	1.5 %	2.1 %	3.4 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 6 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: 10/1000 Cal Rack 0
 Analysis started at: 8/13/2023 8:52:58 AM Vial 4

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.611 %	101.316 %	10.487 ppb	1,011.037 ppb	1,015.008 ppb	11.111 ppb	1,001.327 ppb	1,084.704 ppb	97.582 %
Concentration per Run 1	99.244 %	95.301 %	10.642 ppb	1,047.431 ppb	1,044.146 ppb	10.387 ppb	1,011.809 ppb	1,111.861 ppb	98.904 %
Concentration per Run 2	100.262 %	107.989 %	10.395 ppb	954.432 ppb	973.326 ppb	12.032 ppb	975.917 ppb	1,106.689 ppb	97.314 %
Concentration per Run 3	99.328 %	100.658 %	10.422 ppb	1,031.247 ppb	1,027.553 ppb	10.915 ppb	1,016.256 ppb	1,035.562 ppb	96.528 %
Concentration RSD	0.6 %	6.3 %	1.3 %	4.9 %	3.6 %	7.6 %	2.2 %	3.9 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	10.009 ppb	10.366 ppb	10.465 ppb	1,040.444 ppb	10.568 ppb	10.489 ppb	10.373 ppb	10.208 ppb	100.675 %
Concentration per Run 1	9.859 ppb	10.511 ppb	10.317 ppb	1,037.424 ppb	10.816 ppb	11.175 ppb	10.666 ppb	10.443 ppb	99.693 %
Concentration per Run 2	9.586 ppb	10.147 ppb	10.809 ppb	1,019.892 ppb	10.425 ppb	10.058 ppb	10.019 ppb	9.833 ppb	100.606 %
Concentration per Run 3	10.582 ppb	10.439 ppb	10.268 ppb	1,064.016 ppb	10.462 ppb	10.234 ppb	10.436 ppb	10.348 ppb	101.725 %
Concentration RSD	5.1 %	1.9 %	2.9 %	2.1 %	2.0 %	5.7 %	3.2 %	3.2 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.382 ppb	9.907 ppb	10.098 ppb	9.192 ppb	97.396 %	10.464 ppb	10.604 ppb	99.490 %	10.121 ppb
Concentration per Run 1	10.461 ppb	8.892 ppb	10.242 ppb	9.177 ppb	93.804 %	10.783 ppb	10.848 ppb	96.409 %	10.384 ppb
Concentration per Run 2	10.458 ppb	10.463 ppb	10.050 ppb	9.201 ppb	98.337 %	10.306 ppb	10.432 ppb	99.153 %	10.181 ppb
Concentration per Run 3	10.227 ppb	10.366 ppb	10.002 ppb	9.199 ppb	100.047 %	10.303 ppb	10.533 ppb	102.909 %	9.798 ppb
Concentration RSD	1.3 %	8.9 %	1.3 %	0.1 %	3.3 %	2.6 %	2.0 %	3.3 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	9.928 ppb	97.916 %	98.668 %	9.868 ppb	10.166 ppb	98.608 %
Concentration per Run 1	10.321 ppb	93.602 %	95.695 %	9.933 ppb	10.287 ppb	95.863 %
Concentration per Run 2	9.918 ppb	99.257 %	99.112 %	9.753 ppb	10.123 ppb	99.742 %
Concentration per Run 3	9.547 ppb	100.888 %	101.196 %	9.917 ppb	10.089 ppb	100.220 %
Concentration RSD	3.9 %	3.9 %	2.8 %	1.0 %	1.0 %	2.4 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 7 User name ALPHALAB\la2-icpmsq Comment <Comment>
 Analysis label: 60/6000 Cal Rack 0
 Analysis started at: 8/13/2023 8:57:27 AM Vial 5

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.703 %	99.812 %	59.016 ppb	5,771.777 ppb	5,772.736 ppb	62.797 ppb	5,721.325 ppb	5,861.975 ppb	99.350 %
Concentration per Run 1	98.004 %	102.350 %	59.606 ppb	5,726.854 ppb	5,647.928 ppb	59.574 ppb	5,701.607 ppb	5,870.770 ppb	99.533 %
Concentration per Run 2	97.260 %	104.605 %	59.078 ppb	5,481.748 ppb	5,451.218 ppb	59.366 ppb	5,518.671 ppb	5,530.193 ppb	98.759 %
Concentration per Run 3	97.845 %	92.481 %	58.365 ppb	6,106.728 ppb	6,219.062 ppb	69.450 ppb	5,943.698 ppb	6,184.963 ppb	99.758 %
Concentration RSD	0.4 %	6.5 %	1.1 %	5.5 %	6.9 %	9.2 %	3.7 %	5.6 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.678 ppb	57.628 ppb	57.745 ppb	5,838.786 ppb	58.401 ppb	58.186 ppb	58.853 ppb	59.319 ppb	100.388 %
Concentration per Run 1	57.510 ppb	58.661 ppb	57.024 ppb	5,835.359 ppb	59.159 ppb	58.004 ppb	60.473 ppb	60.334 ppb	97.201 %
Concentration per Run 2	55.398 ppb	54.547 ppb	55.778 ppb	5,601.852 ppb	55.511 ppb	57.668 ppb	56.451 ppb	57.118 ppb	104.313 %
Concentration per Run 3	60.127 ppb	59.674 ppb	60.435 ppb	6,079.147 ppb	60.532 ppb	58.885 ppb	59.633 ppb	60.504 ppb	99.651 %
Concentration RSD	4.1 %	4.7 %	4.2 %	4.1 %	4.4 %	1.1 %	3.6 %	3.2 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.078 ppb	58.982 ppb	58.113 ppb	56.458 ppb	95.074 %	59.444 ppb	59.578 ppb	96.427 %	58.754 ppb
Concentration per Run 1	59.577 ppb	58.614 ppb	59.970 ppb	57.703 ppb	91.379 %	60.370 ppb	61.055 ppb	92.406 %	60.713 ppb
Concentration per Run 2	56.042 ppb	57.225 ppb	56.463 ppb	56.037 ppb	96.231 %	58.360 ppb	58.975 ppb	98.600 %	57.772 ppb
Concentration per Run 3	58.616 ppb	61.106 ppb	57.906 ppb	55.634 ppb	97.611 %	59.602 ppb	58.705 ppb	98.275 %	57.778 ppb
Concentration RSD	3.1 %	3.3 %	3.0 %	1.9 %	3.4 %	1.7 %	2.2 %	3.6 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.410 ppb	97.342 %	98.397 %	58.803 ppb	58.936 ppb	94.688 %
Concentration per Run 1	59.494 ppb	93.460 %	94.135 %	59.425 ppb	60.362 ppb	92.185 %
Concentration per Run 2	57.986 ppb	98.946 %	99.834 %	57.963 ppb	58.467 ppb	94.986 %
Concentration per Run 3	57.749 ppb	99.620 %	101.223 %	59.022 ppb	57.980 ppb	96.894 %
Concentration RSD	1.6 %	3.5 %	3.8 %	1.3 %	2.1 %	2.5 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 8 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: 120/12000 Cal Rack 0
 Analysis started at: 8/13/2023 9:01:57 AM Vial 6

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.483 %	94.737 %	120.451 ppb	12,113.244 ppb	12,112.372 ppb	118.514 ppb	12,139.362 ppb	12,061.127 ppb	98.640 %
Concentration per Run 1	94.679 %	98.120 %	120.620 ppb	11,638.712 ppb	11,660.902 ppb	116.915 ppb	11,896.222 ppb	11,801.158 ppb	98.537 %
Concentration per Run 2	94.542 %	92.481 %	120.759 ppb	12,354.639 ppb	12,356.524 ppb	120.247 ppb	12,484.914 ppb	12,325.131 ppb	97.668 %
Concentration per Run 3	94.228 %	93.609 %	119.974 ppb	12,346.380 ppb	12,319.690 ppb	118.381 ppb	12,036.949 ppb	12,057.092 ppb	99.714 %
Concentration RSD	0.2 %	3.1 %	0.3 %	3.4 %	3.2 %	1.4 %	2.5 %	2.2 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	121.160 ppb	121.156 ppb	121.091 ppb	12,077.297 ppb	120.752 ppb	120.867 ppb	120.543 ppb	120.331 ppb	96.675 %
Concentration per Run 1	122.309 ppb	120.268 ppb	121.288 ppb	12,167.981 ppb	122.943 ppb	122.609 ppb	123.726 ppb	122.277 ppb	94.442 %
Concentration per Run 2	121.254 ppb	122.285 ppb	119.994 ppb	11,976.351 ppb	120.234 ppb	121.757 ppb	120.005 ppb	121.125 ppb	95.823 %
Concentration per Run 3	119.917 ppb	120.915 ppb	121.991 ppb	12,087.557 ppb	119.081 ppb	118.237 ppb	117.898 ppb	117.592 ppb	99.759 %
Concentration RSD	1.0 %	0.9 %	0.8 %	0.8 %	1.6 %	1.9 %	2.4 %	2.0 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	120.929 ppb	120.517 ppb	120.935 ppb	121.839 ppb	91.914 %	120.239 ppb	120.161 ppb	94.109 %	120.613 ppb
Concentration per Run 1	124.186 ppb	124.304 ppb	123.905 ppb	123.587 ppb	88.938 %	123.741 ppb	123.541 ppb	89.919 %	123.756 ppb
Concentration per Run 2	122.462 ppb	120.958 ppb	120.734 ppb	122.448 ppb	92.491 %	119.074 ppb	118.514 ppb	95.173 %	119.716 ppb
Concentration per Run 3	116.140 ppb	116.291 ppb	118.167 ppb	119.482 ppb	94.314 %	117.902 ppb	118.427 ppb	97.234 %	118.368 ppb
Concentration RSD	3.5 %	3.3 %	2.4 %	1.7 %	3.0 %	2.6 %	2.4 %	4.0 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	120.802 ppb	95.877 %	98.422 %	120.610 ppb	120.518 ppb	91.945 %
Concentration per Run 1	124.061 ppb	91.327 %	94.743 %	122.399 ppb	122.633 ppb	89.179 %
Concentration per Run 2	119.660 ppb	97.596 %	99.861 %	119.578 ppb	119.338 ppb	92.522 %
Concentration per Run 3	118.684 ppb	98.708 %	100.661 %	119.853 ppb	119.584 ppb	94.135 %
Concentration RSD	2.4 %	4.2 %	3.3 %	1.3 %	1.5 %	2.7 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 9 User name ALPHALAB\la2-icpmsq2 Comment Sr Intefrence Check
 Analysis label: Sr 200ppb Rack 4
 Analysis started at: 8/13/2023 9:06:27 AM Vial 55

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.957 %	99.060 %	0.009 ppb	2.490 ppb	-0.019 ppb	-0.713 ppb	-4.562 ppb	-1.898 ppb	97.639 %
Concentration per Run 1	98.985 %	102.350 %	0.007 ppb	2.794 ppb	-0.136 ppb	-0.726 ppb	-5.184 ppb	-26.261 ppb	96.496 %
Concentration per Run 2	97.555 %	102.350 %	0.007 ppb	1.444 ppb	-0.920 ppb	-0.561 ppb	-3.588 ppb	25.495 ppb	98.453 %
Concentration per Run 3	97.330 %	92.481 %	0.012 ppb	3.232 ppb	1.001 ppb	-0.852 ppb	-4.915 ppb	-4.928 ppb	97.966 %
Concentration RSD	0.9 %	5.8 %	32.4 %	37.4 %	5,201.8 %	20.5 %	18.7 %	1,370.6 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.007 ppb	-0.015 ppb	-0.197 ppb	2.072 ppb	0.011 ppb	0.091 ppb	0.063 ppb	0.199 ppb	101.461 %
Concentration per Run 1	0.031 ppb	-0.020 ppb	-0.248 ppb	2.097 ppb	0.012 ppb	0.084 ppb	0.047 ppb	0.051 ppb	101.582 %
Concentration per Run 2	-0.018 ppb	-0.002 ppb	-0.136 ppb	0.963 ppb	0.007 ppb	0.119 ppb	0.086 ppb	0.122 ppb	103.820 %
Concentration per Run 3	0.007 ppb	-0.024 ppb	-0.206 ppb	3.156 ppb	0.013 ppb	0.069 ppb	0.057 ppb	0.425 ppb	98.981 %
Concentration RSD	364.9 %	76.8 %	28.7 %	52.9 %	28.4 %	28.3 %	32.0 %	99.5 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.449 ppb	2.717 ppb	199.767 ppb	1.370 ppb	99.507 %	0.010 ppb	0.001 ppb	98.508 %	0.033 ppb
Concentration per Run 1	0.341 ppb	2.120 ppb	202.288 ppb	1.259 ppb	96.260 %	0.018 ppb	0.002 ppb	95.303 %	0.012 ppb
Concentration per Run 2	0.525 ppb	2.703 ppb	195.294 ppb	1.400 ppb	101.130 %	0.008 ppb	-0.004 ppb	100.065 %	0.046 ppb
Concentration per Run 3	0.481 ppb	3.329 ppb	201.720 ppb	1.450 ppb	101.130 %	0.005 ppb	0.006 ppb	100.157 %	0.041 ppb
Concentration RSD	21.4 %	22.2 %	1.9 %	7.3 %	2.8 %	62.5 %	423.9 %	2.8 %	54.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.011 ppb	98.642 %	99.686 %	0.476 ppb	0.011 ppb	100.851 %
Concentration per Run 1	0.039 ppb	94.149 %	96.337 %	0.487 ppb	0.015 ppb	97.819 %
Concentration per Run 2	0.000 ppb	98.823 %	99.301 %	0.524 ppb	0.010 ppb	102.755 %
Concentration per Run 3	-0.005 ppb	102.955 %	103.420 %	0.416 ppb	0.009 ppb	101.979 %
Concentration RSD	212.3 %	4.5 %	3.6 %	11.5 %	26.8 %	2.6 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 10 User name ALPHALAB\la2-icpmsq2 Comment ICV
 Analysis label: ICV Rack 0
 Analysis started at: 8/13/2023 9:11:00 AM Vial 7

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.880 %	94.831 %	48.217 ppb	4,760.431 ppb	4,868.428 ppb	46.510 ppb	4,735.944 ppb	4,919.421 ppb	97.318 %
Concentration per Run 1	94.840 %	87.406 %	48.541 ppb	5,078.445 ppb	5,151.293 ppb	49.653 ppb	4,867.286 ppb	5,064.775 ppb	97.446 %
Concentration per Run 2	94.872 %	102.914 %	48.452 ppb	4,374.764 ppb	4,478.681 ppb	42.417 ppb	4,530.925 ppb	4,698.630 ppb	97.149 %
Concentration per Run 3	94.929 %	94.173 %	47.659 ppb	4,828.084 ppb	4,975.311 ppb	47.461 ppb	4,809.621 ppb	4,994.858 ppb	97.359 %
Recovery Percentage 1			96.435 %	95.209 %	97.369 %	93.020 %	94.719 %	98.388 %	
Concentration RSD	0.0 %	8.2 %	1.0 %	7.5 %	7.2 %	8.0 %	3.8 %	4.0 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	46.510 ppb	47.649 ppb	48.427 ppb	4,765.552 ppb	47.660 ppb	48.694 ppb	48.693 ppb	48.919 ppb	98.248 %
Concentration per Run 1	48.712 ppb	49.003 ppb	49.632 ppb	4,926.806 ppb	49.164 ppb	50.182 ppb	49.895 ppb	50.094 ppb	96.920 %
Concentration per Run 2	44.966 ppb	45.237 ppb	45.990 ppb	4,462.486 ppb	45.176 ppb	45.724 ppb	47.196 ppb	46.689 ppb	100.817 %
Concentration per Run 3	45.852 ppb	48.707 ppb	49.658 ppb	4,907.364 ppb	48.639 ppb	50.177 ppb	48.987 ppb	49.973 ppb	97.006 %
Recovery Percentage 1	93.020 %	95.298 %	96.853 %	95.311 %	95.319 %	97.389 %	97.385 %	97.837 %	
Concentration RSD	4.2 %	4.4 %	4.4 %	5.5 %	4.5 %	5.3 %	2.8 %	3.9 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	46.866 ppb	46.602 ppb	46.418 ppb	47.174 ppb	93.760 %	49.101 ppb	48.730 ppb	95.298 %	47.202 ppb
Concentration per Run 1	46.959 ppb	46.603 ppb	47.225 ppb	47.806 ppb	90.729 %	50.403 ppb	49.711 ppb	93.007 %	47.683 ppb
Concentration per Run 2	45.830 ppb	46.122 ppb	45.485 ppb	46.220 ppb	95.061 %	48.575 ppb	48.334 ppb	96.167 %	47.164 ppb
Concentration per Run 3	47.808 ppb	47.080 ppb	46.545 ppb	47.496 ppb	95.490 %	48.325 ppb	48.145 ppb	96.720 %	46.758 ppb
Recovery Percentage 1	93.731 %	93.204 %	92.837 %	94.348 %		98.202 %	97.460 %		94.403 %
Concentration RSD	2.1 %	1.0 %	1.9 %	1.8 %	2.8 %	2.3 %	1.8 %	2.1 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	45.340 ppb	95.796 %	96.229 %	46.580 ppb	47.401 ppb	94.893 %
Concentration per Run 1	47.087 ppb	92.151 %	92.117 %	46.822 ppb	48.245 ppb	92.039 %
Concentration per Run 2	43.899 ppb	97.279 %	98.276 %	46.267 ppb	47.340 ppb	94.994 %
Concentration per Run 3	45.035 ppb	97.958 %	98.294 %	46.651 ppb	46.619 ppb	97.647 %
Recovery Percentage 1	90.681 %			93.160 %	94.803 %	
Concentration RSD	3.6 %	3.3 %	3.7 %	0.6 %	1.7 %	3.0 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 11 User name ALPHALAB\1a2-icpmsq2 Comment ICB
 Analysis label: ICB Rack 0
 Analysis started at: 8/13/2023 9:15:31 AM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.029 %	96.992 %	0.009 ppb	-3.355 ppb	-1.612 ppb	-1.721 ppb	-10.922 ppb	-5.741 ppb	96.253 %
Concentration per Run 1	97.132 %	100.658 %	0.004 ppb	-3.562 ppb	-1.301 ppb	-1.647 ppb	-12.845 ppb	-5.091 ppb	95.846 %
Concentration per Run 2	97.154 %	95.583 %	0.015 ppb	-3.263 ppb	-1.155 ppb	-1.880 ppb	-10.944 ppb	-6.751 ppb	95.681 %
Concentration per Run 3	96.802 %	94.737 %	0.008 ppb	-3.239 ppb	-2.381 ppb	-1.637 ppb	-8.977 ppb	-5.381 ppb	97.231 %
Recovery Percentage 1			1.780 %	-3.355 %	-2.303 %	-17.214 %	-10.922 %	-5.741 %	
Concentration RSD	0.2 %	3.3 %	67.7 %	5.4 %	41.5 %	8.0 %	17.7 %	15.4 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.011 ppb	-0.032 ppb	-0.300 ppb	-0.576 ppb	0.000 ppb	-0.062 ppb	-0.051 ppb	-0.931 ppb	98.590 %
Concentration per Run 1	-0.014 ppb	-0.039 ppb	-0.305 ppb	-0.712 ppb	0.011 ppb	-0.055 ppb	-0.052 ppb	-0.909 ppb	94.569 %
Concentration per Run 2	-0.015 ppb	-0.022 ppb	-0.350 ppb	0.020 ppb	-0.009 ppb	-0.032 ppb	-0.025 ppb	-0.942 ppb	98.185 %
Concentration per Run 3	-0.002 ppb	-0.036 ppb	-0.246 ppb	-1.036 ppb	-0.001 ppb	-0.101 ppb	-0.076 ppb	-0.943 ppb	103.015 %
Recovery Percentage 1	-0.211 %	-3.223 %	-30.046 %	-1.152 %	0.075 %	-3.122 %	-5.124 %	-18.629 %	
Concentration RSD	66.8 %	28.1 %	17.5 %	93.9 %	2,799.0 %	56.7 %	49.6 %	2.0 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.247 ppb	1.397 ppb	-0.002 ppb	0.878 ppb	98.140 %	0.004 ppb	0.000 ppb	96.680 %	0.017 ppb
Concentration per Run 1	0.196 ppb	1.511 ppb	0.009 ppb	0.873 ppb	95.232 %	0.007 ppb	0.000 ppb	91.985 %	0.000 ppb
Concentration per Run 2	0.254 ppb	1.279 ppb	-0.011 ppb	0.911 ppb	99.085 %	0.001 ppb	0.000 ppb	97.756 %	0.026 ppb
Concentration per Run 3	0.291 ppb	1.401 ppb	-0.005 ppb	0.850 ppb	100.103 %	0.003 ppb	-0.001 ppb	100.298 %	0.026 ppb
Recovery Percentage 1	49.418 %	27.937 %	-0.021 %	43.891 %		0.899 %	-0.196 %		0.432 %
Concentration RSD	19.2 %	8.3 %	489.3 %	3.5 %	2.6 %	90.8 %	91.6 %	4.4 %	87.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.029 ppb	96.143 %	96.237 %	0.296 ppb	-0.002 ppb	98.925 %
Concentration per Run 1	0.030 ppb	92.752 %	93.438 %	0.291 ppb	-0.002 ppb	96.176 %
Concentration per Run 2	-0.032 ppb	97.459 %	97.876 %	0.331 ppb	-0.002 ppb	101.111 %
Concentration per Run 3	-0.085 ppb	98.217 %	97.396 %	0.266 ppb	-0.001 ppb	99.489 %
Recovery Percentage 1	-5.791 %			29.604 %	-0.171 %	
Concentration RSD	199.4 %	3.1 %	2.5 %	11.0 %	17.6 %	2.5 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 12 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: LLCCV Rack 4
 Analysis started at: 8/13/2023 9:21:07 AM Vial 51

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.090 %	94.079 %	0.312 ppb	102.167 ppb	75.407 ppb	9.678 ppb	94.854 ppb	216.630 ppb	95.624 %
Concentration per Run 1	96.311 %	99.812 %	0.300 ppb	97.897 ppb	71.197 ppb	8.552 ppb	86.855 ppb	196.515 ppb	95.645 %
Concentration per Run 2	97.201 %	90.225 %	0.332 ppb	105.522 ppb	80.357 ppb	10.362 ppb	98.956 ppb	222.842 ppb	96.662 %
Concentration per Run 3	97.759 %	92.199 %	0.304 ppb	103.081 ppb	74.668 ppb	10.119 ppb	98.752 ppb	230.533 ppb	94.564 %
Recovery Percentage 1			62.374 %	102.167 %	107.725 %	96.777 %	94.854 %	216.630 %	
Concentration RSD	0.8 %	5.4 %	5.5 %	3.8 %	6.1 %	10.2 %	7.3 %	8.2 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	4.909 ppb	0.710 ppb	1.006 ppb	20.130 ppb	0.541 ppb	2.261 ppb	1.140 ppb	11.734 ppb	98.840 %
Concentration per Run 1	4.634 ppb	0.679 ppb	0.901 ppb	22.071 ppb	0.472 ppb	2.320 ppb	1.430 ppb	11.307 ppb	99.400 %
Concentration per Run 2	5.056 ppb	0.708 ppb	0.992 ppb	19.695 ppb	0.600 ppb	2.341 ppb	0.954 ppb	12.040 ppb	96.295 %
Concentration per Run 3	5.037 ppb	0.744 ppb	1.123 ppb	18.624 ppb	0.551 ppb	2.124 ppb	1.035 ppb	11.856 ppb	100.826 %
Recovery Percentage 1	98.177 %	71.026 %	100.557 %	40.259 %	108.196 %	113.075 %	113.953 %	117.343 %	
Concentration RSD	4.9 %	4.6 %	11.1 %	8.8 %	11.9 %	5.3 %	22.4 %	3.2 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.638 ppb	4.656 ppb	0.542 ppb	2.193 ppb	94.412 %	0.286 ppb	0.226 ppb	93.626 %	3.611 ppb
Concentration per Run 1	0.458 ppb	4.141 ppb	0.527 ppb	2.188 ppb	91.660 %	0.280 ppb	0.227 ppb	92.667 %	3.599 ppb
Concentration per Run 2	0.676 ppb	4.976 ppb	0.546 ppb	2.254 ppb	91.940 %	0.282 ppb	0.212 ppb	90.562 %	3.590 ppb
Concentration per Run 3	0.781 ppb	4.852 ppb	0.552 ppb	2.138 ppb	99.637 %	0.296 ppb	0.238 ppb	97.648 %	3.643 ppb
Recovery Percentage 1	127.654 %	93.122 %	108.375 %	109.656 %		71.506 %	112.774 %		90.270 %
Concentration RSD	25.9 %	9.7 %	2.4 %	2.7 %	4.8 %	3.1 %	5.7 %	3.9 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.556 ppb	93.527 %	94.546 %	0.580 ppb	0.518 ppb	95.305 %
Concentration per Run 1	0.739 ppb	91.564 %	92.761 %	0.586 ppb	0.541 ppb	93.148 %
Concentration per Run 2	0.452 ppb	90.961 %	90.853 %	0.576 ppb	0.506 ppb	93.073 %
Concentration per Run 3	0.476 ppb	98.057 %	100.024 %	0.578 ppb	0.505 ppb	99.694 %
Recovery Percentage 1	111.183 %			115.981 %	103.513 %	
Concentration RSD	28.7 %	4.2 %	5.1 %	0.9 %	4.0 %	4.0 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 13 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: ICSA Rack 4
 Analysis started at: 8/13/2023 9:25:39 AM Vial 53

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.448 %	84.492 %	0.008 ppb	50,737.320 ppb	19,708.018 ppb	18,853.063 ppb	19,577.965 ppb	59,094.108 ppb	84.892 %
Concentration per Run 1	83.344 %	87.688 %	0.001 ppb	49,024.809 ppb	19,161.537 ppb	18,223.574 ppb	19,295.575 ppb	58,130.150 ppb	84.827 %
Concentration per Run 2	83.241 %	82.613 %	0.011 ppb	51,756.048 ppb	19,854.324 ppb	19,054.946 ppb	19,650.989 ppb	59,553.938 ppb	85.055 %
Concentration per Run 3	83.759 %	83.177 %	0.011 ppb	51,431.102 ppb	20,108.192 ppb	19,280.670 ppb	19,787.331 ppb	59,598.236 ppb	84.792 %
Recovery Percentage 1			1.507 %	50,737.320 %	28,154.311 %	188,530.634 %	19,577.965 %	59,094.108 %	
Concentration RSD	0.3 %	3.3 %	70.0 %	2.9 %	2.5 %	3.0 %	1.3 %	1.4 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.003 ppb	0.340 ppb	0.902 ppb	48,588.263 ppb	0.443 ppb	0.995 ppb	0.350 ppb	1.094 ppb	87.683 %
Concentration per Run 1	-0.023 ppb	0.392 ppb	1.035 ppb	48,632.112 ppb	0.443 ppb	1.052 ppb	0.434 ppb	1.055 ppb	83.130 %
Concentration per Run 2	-0.008 ppb	0.296 ppb	0.856 ppb	48,538.728 ppb	0.489 ppb	0.921 ppb	0.366 ppb	1.033 ppb	88.668 %
Concentration per Run 3	0.039 ppb	0.333 ppb	0.815 ppb	48,593.951 ppb	0.396 ppb	1.013 ppb	0.251 ppb	1.196 ppb	91.252 %
Recovery Percentage 1	0.055 %	34.038 %	90.221 %	97,176.527 %	88.513 %	49.755 %	35.029 %	21.890 %	
Concentration RSD	1,163.4 %	14.2 %	13.0 %	0.1 %	10.6 %	6.8 %	26.3 %	8.1 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.164 ppb	1.257 ppb	0.494 ppb	420.301 ppb	80.534 %	0.005 ppb	0.114 ppb	83.753 %	0.101 ppb
Concentration per Run 1	0.150 ppb	1.102 ppb	0.527 ppb	420.180 ppb	77.812 %	0.005 ppb	0.134 ppb	81.252 %	0.095 ppb
Concentration per Run 2	0.192 ppb	1.242 ppb	0.468 ppb	413.722 ppb	79.808 %	0.007 ppb	0.110 ppb	82.144 %	0.087 ppb
Concentration per Run 3	0.149 ppb	1.428 ppb	0.488 ppb	427.002 ppb	83.981 %	0.003 ppb	0.099 ppb	87.863 %	0.121 ppb
Recovery Percentage 1	32.776 %	25.148 %	4.943 %	21,015.062 %		1.329 %	57.159 %		2.521 %
Concentration RSD	14.7 %	13.0 %	6.1 %	1.6 %	3.9 %	39.6 %	16.0 %	4.3 %	17.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.247 ppb	81.115 %	79.618 %	0.062 ppb	0.326 ppb	79.082 %
Concentration per Run 1	0.261 ppb	78.277 %	76.942 %	0.046 ppb	0.327 ppb	76.381 %
Concentration per Run 2	0.272 ppb	79.669 %	78.319 %	0.075 ppb	0.329 ppb	79.031 %
Concentration per Run 3	0.208 ppb	85.401 %	83.595 %	0.066 ppb	0.322 ppb	81.834 %
Recovery Percentage 1	49.412 %			6.219 %	32.566 %	
Concentration RSD	13.9 %	4.7 %	4.4 %	23.8 %	1.1 %	3.4 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 14 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: Rinse Rack 0
 Analysis started at: 8/13/2023 9:30:11 AM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.488 %	97.556 %	0.013 ppb	2.550 ppb	-0.663 ppb	0.858 ppb	-6.807 ppb	0.725 ppb	95.477 %
Concentration per Run 1	94.975 %	95.583 %	0.009 ppb	1.757 ppb	1.527 ppb	0.718 ppb	-10.475 ppb	5.027 ppb	95.936 %
Concentration per Run 2	93.602 %	98.120 %	0.008 ppb	3.841 ppb	-2.820 ppb	1.119 ppb	-5.563 ppb	-0.345 ppb	95.676 %
Concentration per Run 3	94.887 %	98.966 %	0.023 ppb	2.053 ppb	-0.694 ppb	0.736 ppb	-4.383 ppb	-2.507 ppb	94.817 %
Concentration RSD	0.8 %	1.8 %	62.5 %	44.2 %	328.1 %	26.4 %	47.5 %	535.1 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.017 ppb	0.079 ppb	0.087 ppb	84.418 ppb	0.008 ppb	0.527 ppb	0.107 ppb	1.814 ppb	96.667 %
Concentration per Run 1	-0.006 ppb	0.061 ppb	0.174 ppb	82.959 ppb	0.002 ppb	0.484 ppb	0.063 ppb	2.018 ppb	94.254 %
Concentration per Run 2	0.050 ppb	0.091 ppb	0.033 ppb	85.735 ppb	0.009 ppb	0.619 ppb	0.168 ppb	1.738 ppb	98.060 %
Concentration per Run 3	0.006 ppb	0.085 ppb	0.055 ppb	84.559 ppb	0.013 ppb	0.478 ppb	0.091 ppb	1.685 ppb	97.689 %
Concentration RSD	174.4 %	19.9 %	87.3 %	1.7 %	66.9 %	15.1 %	50.5 %	9.9 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.060 ppb	0.143 ppb	0.003 ppb	3.303 ppb	94.418 %	0.010 ppb	0.009 ppb	91.241 %	0.044 ppb
Concentration per Run 1	0.059 ppb	-0.015 ppb	0.006 ppb	2.914 ppb	92.528 %	0.007 ppb	0.010 ppb	88.960 %	0.026 ppb
Concentration per Run 2	0.061 ppb	0.160 ppb	-0.003 ppb	3.532 ppb	91.458 %	0.016 ppb	0.011 ppb	87.377 %	0.061 ppb
Concentration per Run 3	0.061 ppb	0.285 ppb	0.006 ppb	3.463 ppb	99.268 %	0.007 ppb	0.007 ppb	97.386 %	0.044 ppb
Concentration RSD	1.3 %	105.2 %	178.8 %	10.3 %	4.5 %	50.1 %	22.5 %	5.9 %	39.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.079 ppb	92.457 %	92.679 %	0.046 ppb	0.011 ppb	94.633 %
Concentration per Run 1	-0.003 ppb	91.213 %	91.539 %	0.033 ppb	0.012 ppb	93.779 %
Concentration per Run 2	0.104 ppb	89.632 %	88.588 %	0.052 ppb	0.010 ppb	93.775 %
Concentration per Run 3	0.135 ppb	96.525 %	97.911 %	0.051 ppb	0.011 ppb	96.344 %
Concentration RSD	91.5 %	3.9 %	5.1 %	23.9 %	9.1 %	1.6 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 15 User name ALPHALAB\la2-icpmsq2 Comment CCV/MCCV
 Analysis label: CCV Rack 0
 Analysis started at: 8/13/2023 9:34:38 AM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.146 %	86.090 %	60.043 ppb	6,100.749 ppb	6,132.554 ppb	57.519 ppb	5,994.960 ppb	6,067.713 ppb	95.755 %
Concentration per Run 1	91.728 %	76.974 %	59.497 ppb	6,655.193 ppb	6,624.457 ppb	60.864 ppb	6,364.806 ppb	6,487.488 ppb	95.492 %
Concentration per Run 2	90.453 %	90.789 %	61.196 ppb	5,780.108 ppb	5,919.745 ppb	55.458 ppb	5,945.676 ppb	5,920.221 ppb	94.819 %
Concentration per Run 3	91.258 %	90.507 %	59.437 ppb	5,866.945 ppb	5,853.461 ppb	56.237 ppb	5,674.397 ppb	5,795.431 ppb	96.953 %
Recovery Percentage 1			100.072 %	101.679 %	102.209 %	95.866 %	99.916 %	101.129 %	
Concentration RSD	0.7 %	9.2 %	1.7 %	7.9 %	7.0 %	5.1 %	5.8 %	6.1 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.076 ppb	59.270 ppb	58.809 ppb	5,848.698 ppb	59.776 ppb	59.858 ppb	59.619 ppb	60.663 ppb	95.298 %
Concentration per Run 1	64.206 ppb	63.278 ppb	62.657 ppb	6,102.184 ppb	62.673 ppb	61.475 ppb	62.046 ppb	62.983 ppb	92.115 %
Concentration per Run 2	58.300 ppb	56.404 ppb	55.840 ppb	5,585.167 ppb	57.525 ppb	57.759 ppb	57.351 ppb	59.007 ppb	98.079 %
Concentration per Run 3	57.721 ppb	58.128 ppb	57.928 ppb	5,858.744 ppb	59.130 ppb	60.340 ppb	59.460 ppb	59.998 ppb	95.700 %
Recovery Percentage 1	100.126 %	98.784 %	98.014 %	97.478 %	99.626 %	99.764 %	99.365 %	101.105 %	
Concentration RSD	6.0 %	6.0 %	5.9 %	4.4 %	4.4 %	3.2 %	3.9 %	3.4 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.708 ppb	58.523 ppb	52.068 ppb	56.744 ppb	91.573 %	58.916 ppb	59.568 ppb	89.144 %	57.369 ppb
Concentration per Run 1	60.660 ppb	57.999 ppb	53.026 ppb	57.415 ppb	88.991 %	60.132 ppb	60.812 ppb	86.551 %	59.034 ppb
Concentration per Run 2	57.180 ppb	59.593 ppb	50.415 ppb	55.769 ppb	92.521 %	57.928 ppb	58.839 ppb	92.140 %	56.754 ppb
Concentration per Run 3	58.283 ppb	57.978 ppb	52.764 ppb	57.049 ppb	93.205 %	58.689 ppb	59.052 ppb	88.743 %	56.318 ppb
Recovery Percentage 1	97.846 %	97.539 %	86.780 %	94.574 %		98.194 %	99.279 %		95.615 %
Concentration RSD	3.0 %	1.6 %	2.8 %	1.5 %	2.5 %	1.9 %	1.8 %	3.2 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	56.258 ppb	90.935 %	91.507 %	57.243 ppb	57.270 ppb	89.505 %
Concentration per Run 1	57.858 ppb	88.522 %	90.407 %	56.859 ppb	57.657 ppb	88.906 %
Concentration per Run 2	55.143 ppb	93.807 %	94.356 %	57.359 ppb	57.093 ppb	91.658 %
Concentration per Run 3	55.773 ppb	90.476 %	89.759 %	57.511 ppb	57.061 ppb	87.951 %
Recovery Percentage 1	93.763 %			95.405 %	95.451 %	
Concentration RSD	2.5 %	2.9 %	2.7 %	0.6 %	0.6 %	2.2 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 16 User name ALPHALAB\la2-icpmsq2 Comment CCB
 Analysis label: CCB Rack 0
 Analysis started at: 8/13/2023 9:39:10 AM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.959 %	100.846 %	0.007 ppb	-4.949 ppb	-2.298 ppb	-1.835 ppb	-9.560 ppb	-9.023 ppb	95.226 %
Concentration per Run 1	94.671 %	99.530 %	0.009 ppb	-5.282 ppb	-2.038 ppb	-1.826 ppb	-9.417 ppb	-7.621 ppb	95.109 %
Concentration per Run 2	95.641 %	97.838 %	0.004 ppb	-3.519 ppb	-2.204 ppb	-1.885 ppb	-7.275 ppb	-11.268 ppb	96.525 %
Concentration per Run 3	94.565 %	105.169 %	0.007 ppb	-6.047 ppb	-2.651 ppb	-1.796 ppb	-11.988 ppb	-8.180 ppb	94.044 %
Recovery Percentage 1			1.329 %	-4.949 %	-3.282 %	-18.353 %	-9.560 %	-9.023 %	
Concentration RSD	0.6 %	3.8 %	39.6 %	26.2 %	13.8 %	2.5 %	24.7 %	21.8 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.030 ppb	-0.030 ppb	-0.288 ppb	-0.753 ppb	0.000 ppb	-0.059 ppb	-0.049 ppb	-0.924 ppb	97.146 %
Concentration per Run 1	-0.058 ppb	-0.035 ppb	-0.304 ppb	-1.949 ppb	0.005 ppb	-0.028 ppb	-0.052 ppb	-0.973 ppb	94.302 %
Concentration per Run 2	-0.029 ppb	-0.022 ppb	-0.228 ppb	2.179 ppb	0.002 ppb	-0.056 ppb	-0.036 ppb	-0.858 ppb	96.326 %
Concentration per Run 3	-0.004 ppb	-0.034 ppb	-0.332 ppb	-2.488 ppb	-0.005 ppb	-0.093 ppb	-0.060 ppb	-0.940 ppb	100.809 %
Recovery Percentage 1	-0.608 %	-3.014 %	-28.820 %	-1.505 %	0.090 %	-2.954 %	-4.921 %	-18.473 %	
Concentration RSD	89.5 %	24.2 %	18.8 %	339.2 %	1,131.0 %	55.1 %	25.2 %	6.5 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.254 ppb	1.307 ppb	-0.015 ppb	1.315 ppb	96.100 %	0.003 ppb	-0.001 ppb	93.196 %	0.007 ppb
Concentration per Run 1	0.242 ppb	1.208 ppb	-0.003 ppb	1.050 ppb	93.893 %	0.000 ppb	0.004 ppb	91.101 %	-0.006 ppb
Concentration per Run 2	0.284 ppb	1.605 ppb	-0.020 ppb	1.410 ppb	97.101 %	0.005 ppb	-0.004 ppb	95.349 %	0.009 ppb
Concentration per Run 3	0.238 ppb	1.106 ppb	-0.021 ppb	1.485 ppb	97.305 %	0.003 ppb	-0.002 ppb	93.138 %	0.019 ppb
Recovery Percentage 1	50.883 %	26.132 %	-0.147 %	65.744 %		0.700 %	-0.342 %		0.180 %
Concentration RSD	10.0 %	20.2 %	66.2 %	17.7 %	2.0 %	91.0 %	614.9 %	2.3 %	172.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.043 ppb	93.840 %	93.112 %	0.309 ppb	-0.001 ppb	96.078 %
Concentration per Run 1	-0.051 ppb	91.598 %	91.428 %	0.317 ppb	-0.002 ppb	93.769 %
Concentration per Run 2	-0.006 ppb	94.892 %	94.447 %	0.339 ppb	0.001 ppb	96.788 %
Concentration per Run 3	-0.071 ppb	95.029 %	93.463 %	0.270 ppb	-0.002 ppb	97.678 %
Recovery Percentage 1	-8.535 %			30.864 %	-0.104 %	
Concentration RSD	78.1 %	2.1 %	1.7 %	11.4 %	165.0 %	2.1 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 17 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: wg1814674-1 2008TL Rack: 1
 Analysis started at: 8/13/2023 9:44:09 AM Vial: 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.779 %	100.094 %	0.007 ppb	-1.271 ppb	-0.372 ppb	-0.320 ppb	-9.374 ppb	1.740 ppb	96.180 %
Concentration per Run 1	95.675 %	101.786 %	0.006 ppb	-1.738 ppb	-0.795 ppb	-0.635 ppb	-10.530 ppb	2.258 ppb	94.805 %
Concentration per Run 2	95.919 %	103.759 %	0.006 ppb	-1.076 ppb	0.509 ppb	-0.403 ppb	-10.594 ppb	-1.422 ppb	95.799 %
Concentration per Run 3	95.744 %	94.737 %	0.009 ppb	-1.001 ppb	-0.830 ppb	0.077 ppb	-6.999 ppb	4.386 ppb	97.936 %
Concentration RSD	0.1 %	4.7 %	25.1 %	31.9 %	205.3 %	113.4 %	21.9 %	168.8 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.043 ppb	-0.021 ppb	-0.207 ppb	-2.016 ppb	-0.007 ppb	-0.032 ppb	0.021 ppb	-0.559 ppb	101.920 %
Concentration per Run 1	-0.044 ppb	-0.024 ppb	-0.154 ppb	-2.699 ppb	-0.007 ppb	-0.074 ppb	0.087 ppb	-0.571 ppb	96.586 %
Concentration per Run 2	-0.059 ppb	-0.027 ppb	-0.230 ppb	-0.819 ppb	-0.010 ppb	-0.039 ppb	0.012 ppb	-0.590 ppb	103.740 %
Concentration per Run 3	-0.024 ppb	-0.011 ppb	-0.238 ppb	-2.530 ppb	-0.003 ppb	0.017 ppb	-0.035 ppb	-0.515 ppb	105.434 %
Concentration RSD	41.1 %	39.3 %	22.6 %	51.6 %	48.6 %	141.9 %	287.5 %	7.0 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.059 ppb	0.335 ppb	-0.006 ppb	0.427 ppb	97.983 %	0.002 ppb	-0.005 ppb	96.001 %	-0.019 ppb
Concentration per Run 1	0.014 ppb	0.250 ppb	-0.003 ppb	0.306 ppb	94.822 %	-0.002 ppb	-0.004 ppb	91.787 %	-0.029 ppb
Concentration per Run 2	0.037 ppb	0.466 ppb	-0.011 ppb	0.488 ppb	98.423 %	0.005 ppb	-0.004 ppb	96.683 %	-0.016 ppb
Concentration per Run 3	0.125 ppb	0.290 ppb	-0.004 ppb	0.487 ppb	100.703 %	0.004 ppb	-0.006 ppb	99.534 %	-0.012 ppb
Concentration RSD	99.5 %	34.1 %	72.7 %	24.5 %	3.0 %	166.6 %	25.9 %	4.1 %	46.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.043 ppb	96.619 %	96.959 %	0.089 ppb	-0.004 ppb	97.967 %
Concentration per Run 1	-0.098 ppb	91.865 %	92.373 %	0.078 ppb	-0.006 ppb	95.049 %
Concentration per Run 2	0.018 ppb	98.101 %	98.219 %	0.103 ppb	-0.004 ppb	97.927 %
Concentration per Run 3	-0.050 ppb	99.892 %	100.285 %	0.085 ppb	-0.001 ppb	100.927 %
Concentration RSD	135.0 %	4.4 %	4.2 %	14.5 %	59.3 %	3.0 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 18 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: WG1814779-1 2008TL Rack 1
 Analysis started at: 8/13/2023 9:48:36 AM Vial 6

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.003 %	98.966 %	0.009 ppb	-1.549 ppb	-0.700 ppb	-0.504 ppb	-8.727 ppb	-3.273 ppb	97.425 %
Concentration per Run 1	96.145 %	104.605 %	0.018 ppb	-3.200 ppb	0.115 ppb	-1.001 ppb	-10.146 ppb	-11.314 ppb	96.182 %
Concentration per Run 2	96.779 %	93.891 %	0.001 ppb	0.389 ppb	-0.293 ppb	-0.237 ppb	-5.645 ppb	2.789 ppb	97.762 %
Concentration per Run 3	98.086 %	98.402 %	0.007 ppb	-1.834 ppb	-1.923 ppb	-0.275 ppb	-10.391 ppb	-1.293 ppb	98.329 %
Concentration RSD	1.0 %	5.4 %	99.8 %	117.0 %	154.0 %	85.4 %	30.6 %	221.7 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.032 ppb	-0.035 ppb	-0.136 ppb	0.807 ppb	-0.003 ppb	0.206 ppb	0.025 ppb	-0.559 ppb	98.278 %
Concentration per Run 1	-0.029 ppb	-0.034 ppb	-0.112 ppb	1.301 ppb	-0.009 ppb	0.190 ppb	0.030 ppb	-0.547 ppb	91.577 %
Concentration per Run 2	-0.022 ppb	-0.037 ppb	-0.152 ppb	-2.072 ppb	0.006 ppb	0.260 ppb	0.002 ppb	-0.558 ppb	99.075 %
Concentration per Run 3	-0.045 ppb	-0.032 ppb	-0.144 ppb	3.191 ppb	-0.005 ppb	0.168 ppb	0.044 ppb	-0.572 ppb	104.181 %
Concentration RSD	37.2 %	7.1 %	15.7 %	330.4 %	294.8 %	23.3 %	85.1 %	2.3 %	6.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.055 ppb	0.189 ppb	-0.008 ppb	0.282 ppb	97.884 %	0.003 ppb	-0.001 ppb	96.303 %	-0.012 ppb
Concentration per Run 1	0.016 ppb	0.080 ppb	-0.012 ppb	0.216 ppb	95.373 %	0.006 ppb	0.000 ppb	92.860 %	-0.031 ppb
Concentration per Run 2	0.041 ppb	0.278 ppb	-0.015 ppb	0.244 ppb	99.303 %	0.002 ppb	-0.004 ppb	96.994 %	-0.019 ppb
Concentration per Run 3	0.109 ppb	0.210 ppb	0.003 ppb	0.386 ppb	98.977 %	0.000 ppb	0.001 ppb	99.054 %	0.014 ppb
Concentration RSD	86.6 %	53.0 %	117.9 %	32.4 %	2.2 %	94.4 %	285.5 %	3.3 %	196.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.011 ppb	96.396 %	95.880 %	0.049 ppb	-0.004 ppb	97.627 %
Concentration per Run 1	-0.015 ppb	91.538 %	91.969 %	0.034 ppb	-0.004 ppb	94.189 %
Concentration per Run 2	0.004 ppb	97.861 %	97.755 %	0.061 ppb	-0.007 ppb	98.049 %
Concentration per Run 3	-0.022 ppb	99.789 %	97.916 %	0.052 ppb	-0.002 ppb	100.642 %
Concentration RSD	121.4 %	4.5 %	3.5 %	28.0 %	64.9 %	3.3 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 19 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1814779-2D10 2008TL Rack: 1
 Analysis started at: 8/13/2023 9:53:05 AM Vial: 7

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.122 %	97.274 %	5.291 ppb	1,001.884 ppb	1,029.580 ppb	203.966 ppb	1,003.547 ppb	1,086.166 ppb	95.052 %
Concentration per Run 1	93.566 %	97.838 %	5.309 ppb	989.760 ppb	1,010.164 ppb	200.644 ppb	996.466 ppb	1,188.948 ppb	94.507 %
Concentration per Run 2	94.578 %	95.301 %	5.336 ppb	1,012.547 ppb	1,063.135 ppb	207.767 ppb	1,039.420 ppb	1,013.827 ppb	94.980 %
Concentration per Run 3	94.222 %	98.684 %	5.230 ppb	1,003.343 ppb	1,015.442 ppb	203.488 ppb	974.756 ppb	1,055.724 ppb	95.670 %
Concentration RSD	0.5 %	1.8 %	1.0 %	1.1 %	2.8 %	1.8 %	3.3 %	8.4 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	50.011 ppb	20.077 ppb	51.327 ppb	100.272 ppb	50.495 ppb	50.764 ppb	25.983 ppb	51.255 ppb	97.872 %
Concentration per Run 1	51.622 ppb	20.208 ppb	52.728 ppb	98.080 ppb	50.908 ppb	51.521 ppb	26.137 ppb	51.599 ppb	93.356 %
Concentration per Run 2	49.708 ppb	19.908 ppb	50.614 ppb	94.273 ppb	49.601 ppb	50.078 ppb	25.618 ppb	51.374 ppb	100.512 %
Concentration per Run 3	48.703 ppb	20.115 ppb	50.640 ppb	108.462 ppb	50.976 ppb	50.694 ppb	26.193 ppb	50.792 ppb	99.746 %
Concentration RSD	3.0 %	0.8 %	2.4 %	7.3 %	1.5 %	1.4 %	1.2 %	0.8 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.878 ppb	12.485 ppb	93.844 ppb	93.941 ppb	94.853 %	5.269 ppb	5.621 ppb	91.365 %	39.106 ppb
Concentration per Run 1	13.048 ppb	11.989 ppb	92.458 ppb	93.505 ppb	90.940 %	5.485 ppb	5.881 ppb	85.434 %	40.143 ppb
Concentration per Run 2	12.596 ppb	12.328 ppb	94.145 ppb	93.934 ppb	97.206 %	5.103 ppb	5.417 ppb	94.582 %	38.077 ppb
Concentration per Run 3	12.991 ppb	13.137 ppb	94.930 ppb	94.384 ppb	96.414 %	5.218 ppb	5.566 ppb	94.078 %	39.097 ppb
Concentration RSD	1.9 %	4.7 %	1.3 %	0.5 %	3.6 %	3.7 %	4.2 %	5.6 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	197.388 ppb	93.527 %	93.738 %	12.456 ppb	55.221 ppb	94.436 %
Concentration per Run 1	201.359 ppb	88.565 %	88.819 %	12.640 ppb	56.469 ppb	91.267 %
Concentration per Run 2	193.202 ppb	94.887 %	95.596 %	12.438 ppb	54.795 ppb	95.143 %
Concentration per Run 3	197.603 ppb	97.128 %	96.799 %	12.289 ppb	54.398 ppb	96.897 %
Concentration RSD	2.1 %	4.7 %	4.6 %	1.4 %	2.0 %	3.1 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 20 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: xwg1814674-2D10 2008TL Rack: 1
 Analysis started at: 8/13/2023 9:57:35 AM Vial: 2

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	258.443 %	245.304 %	-0.002 ppb	-7.039 ppb	-1.926 ppb	-2.083 ppb	-15.054 ppb	-8.786 ppb	266.721 %
Concentration per Run 1	258.741 %	234.590 %	0.001 ppb	-6.847 ppb	-1.847 ppb	-1.966 ppb	-14.229 ppb	-8.795 ppb	268.570 %
Concentration per Run 2	259.944 %	258.557 %	-0.002 ppb	-6.914 ppb	-1.981 ppb	-2.136 ppb	-15.431 ppb	-9.405 ppb	265.395 %
Concentration per Run 3	256.643 %	242.767 %	-0.004 ppb	-7.358 ppb	-1.949 ppb	-2.146 ppb	-15.502 ppb	-8.159 ppb	266.199 %
Concentration RSD	0.6 %	5.0 %	162.5 %	3.9 %	3.6 %	4.8 %	4.8 %	7.1 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.046 ppb	-0.042 ppb	-0.329 ppb	-4.799 ppb	-0.002 ppb	-0.125 ppb	-0.086 ppb	-1.286 ppb	260.805 %
Concentration per Run 1	-0.056 ppb	-0.047 ppb	-0.317 ppb	-4.188 ppb	-0.001 ppb	-0.103 ppb	-0.087 ppb	-1.293 ppb	252.093 %
Concentration per Run 2	-0.026 ppb	-0.038 ppb	-0.326 ppb	-4.950 ppb	-0.004 ppb	-0.136 ppb	-0.086 ppb	-1.292 ppb	279.862 %
Concentration per Run 3	-0.056 ppb	-0.042 ppb	-0.343 ppb	-5.258 ppb	-0.002 ppb	-0.136 ppb	-0.084 ppb	-1.272 ppb	250.460 %
Concentration RSD	37.1 %	10.0 %	4.1 %	11.5 %	90.4 %	15.2 %	1.3 %	0.9 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.008 ppb	0.077 ppb	-0.012 ppb	0.498 ppb	266.403 %	0.000 ppb	0.000 ppb	253.845 %	0.178 ppb
Concentration per Run 1	0.003 ppb	0.093 ppb	-0.013 ppb	0.513 ppb	260.013 %	0.001 ppb	0.001 ppb	240.343 %	0.198 ppb
Concentration per Run 2	0.009 ppb	0.089 ppb	-0.008 ppb	0.490 ppb	276.286 %	0.000 ppb	-0.002 ppb	262.027 %	0.164 ppb
Concentration per Run 3	0.014 ppb	0.051 ppb	-0.014 ppb	0.490 ppb	262.911 %	-0.002 ppb	0.000 ppb	259.164 %	0.171 ppb
Concentration RSD	67.5 %	29.9 %	25.5 %	2.7 %	3.3 %	1,207.8 %	1,541.9 %	4.6 %	10.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.030 ppb	258.898 %	259.138 %	0.014 ppb	-0.007 ppb	249.636 %
Concentration per Run 1	-0.022 ppb	242.907 %	241.175 %	-0.003 ppb	-0.006 ppb	232.742 %
Concentration per Run 2	-0.050 ppb	270.518 %	273.401 %	0.024 ppb	-0.007 ppb	263.381 %
Concentration per Run 3	-0.020 ppb	263.268 %	262.837 %	0.021 ppb	-0.006 ppb	252.785 %
Concentration RSD	54.5 %	5.5 %	6.3 %	105.8 %	7.1 %	6.2 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 21 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2345656-01 2008TL Rack 1
 Analysis started at: 8/13/2023 10:02:03 AM Vial 3

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.620 %	97.838 %	0.050 ppb	14,995.790 ppb	897.901 ppb	117.655 ppb	879.582 ppb	4,684.523 ppb	98.012 %
Concentration per Run 1	94.327 %	97.274 %	0.052 ppb	14,779.891 ppb	888.041 ppb	113.868 ppb	868.395 ppb	4,686.571 ppb	98.081 %
Concentration per Run 2	94.125 %	98.966 %	0.055 ppb	14,937.843 ppb	896.334 ppb	116.047 ppb	869.139 ppb	4,641.785 ppb	98.062 %
Concentration per Run 3	92.408 %	97.274 %	0.042 ppb	15,269.637 ppb	909.328 ppb	123.051 ppb	901.210 ppb	4,725.214 ppb	97.893 %
Concentration RSD	1.1 %	1.0 %	12.9 %	1.7 %	1.2 %	4.1 %	2.1 %	0.9 %	0.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.376 ppb	5.541 ppb	19.248 ppb	900.504 ppb	1.168 ppb	15.747 ppb	153.941 ppb	73.771 ppb	97.003 %
Concentration per Run 1	0.451 ppb	5.675 ppb	19.622 ppb	902.787 ppb	1.123 ppb	15.692 ppb	156.676 ppb	74.630 ppb	92.828 %
Concentration per Run 2	0.331 ppb	5.281 ppb	18.635 ppb	857.248 ppb	1.151 ppb	16.191 ppb	150.392 ppb	72.970 ppb	99.958 %
Concentration per Run 3	0.346 ppb	5.667 ppb	19.486 ppb	941.477 ppb	1.230 ppb	15.358 ppb	154.755 ppb	73.714 ppb	98.225 %
Concentration RSD	17.4 %	4.1 %	2.8 %	4.7 %	4.7 %	2.7 %	2.1 %	1.1 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.019 ppb	0.270 ppb	38.031 ppb	2.121 ppb	90.947 %	0.176 ppb	0.226 ppb	89.899 %	1.178 ppb
Concentration per Run 1	1.932 ppb	0.244 ppb	38.891 ppb	1.937 ppb	85.479 %	0.183 ppb	0.240 ppb	82.795 %	1.140 ppb
Concentration per Run 2	1.987 ppb	0.193 ppb	37.223 ppb	2.159 ppb	93.446 %	0.182 ppb	0.190 ppb	92.912 %	1.151 ppb
Concentration per Run 3	2.139 ppb	0.372 ppb	37.979 ppb	2.267 ppb	93.916 %	0.164 ppb	0.249 ppb	93.991 %	1.243 ppb
Concentration RSD	5.3 %	34.1 %	2.2 %	7.9 %	5.2 %	6.0 %	14.2 %	6.9 %	4.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	10.992 ppb	91.422 %	92.430 %	0.040 ppb	5.686 ppb	90.251 %
Concentration per Run 1	11.193 ppb	83.685 %	85.665 %	0.035 ppb	5.810 ppb	83.972 %
Concentration per Run 2	11.053 ppb	94.470 %	95.269 %	0.047 ppb	5.614 ppb	93.147 %
Concentration per Run 3	10.729 ppb	96.111 %	96.356 %	0.039 ppb	5.633 ppb	93.636 %
Concentration RSD	2.2 %	7.4 %	6.4 %	15.1 %	1.9 %	6.0 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 22 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: wg1814674-2D10 2008TL Rack: 1
 Analysis started at: 8/13/2023 10:06:32 AM Vial: 14

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.466 %	95.677 %	5.218 ppb	982.626 ppb	989.064 ppb	200.938 ppb	978.172 ppb	941.993 ppb	96.015 %
Concentration per Run 1	95.321 %	97.838 %	5.209 ppb	972.961 ppb	962.953 ppb	198.308 ppb	1,012.872 ppb	978.301 ppb	95.362 %
Concentration per Run 2	94.276 %	85.714 %	5.259 ppb	1,040.089 ppb	1,055.948 ppb	204.020 ppb	1,007.318 ppb	852.852 ppb	96.230 %
Concentration per Run 3	93.802 %	103.477 %	5.186 ppb	934.828 ppb	948.291 ppb	200.488 ppb	914.325 ppb	994.827 ppb	96.454 %
Concentration RSD	0.8 %	9.5 %	0.7 %	5.4 %	5.9 %	1.4 %	5.7 %	8.2 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.958 ppb	19.779 ppb	50.325 ppb	94.659 ppb	50.553 ppb	50.202 ppb	25.560 ppb	49.829 ppb	98.834 %
Concentration per Run 1	48.205 ppb	19.655 ppb	50.505 ppb	99.001 ppb	50.686 ppb	49.708 ppb	26.091 ppb	50.485 ppb	97.092 %
Concentration per Run 2	49.690 ppb	20.542 ppb	51.986 ppb	93.946 ppb	51.949 ppb	51.622 ppb	26.500 ppb	51.267 ppb	95.074 %
Concentration per Run 3	45.981 ppb	19.141 ppb	48.484 ppb	91.030 ppb	49.025 ppb	49.276 ppb	24.089 ppb	47.734 ppb	104.336 %
Concentration RSD	3.9 %	3.6 %	3.5 %	4.3 %	2.9 %	2.5 %	5.0 %	3.7 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.194 ppb	10.932 ppb	94.283 ppb	94.557 ppb	95.524 %	5.249 ppb	5.601 ppb	92.607 %	40.024 ppb
Concentration per Run 1	12.420 ppb	10.563 ppb	95.493 ppb	93.049 ppb	93.406 %	5.365 ppb	5.695 ppb	89.794 %	40.766 ppb
Concentration per Run 2	12.317 ppb	11.991 ppb	95.318 ppb	95.582 ppb	96.054 %	5.242 ppb	5.525 ppb	93.068 %	39.787 ppb
Concentration per Run 3	11.845 ppb	10.243 ppb	92.037 ppb	95.040 ppb	97.111 %	5.140 ppb	5.582 ppb	94.960 %	39.520 ppb
Concentration RSD	2.5 %	8.5 %	2.1 %	1.4 %	2.0 %	2.1 %	1.5 %	2.8 %	1.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	197.487 ppb	94.967 %	95.449 %	12.223 ppb	54.391 ppb	95.501 %
Concentration per Run 1	199.023 ppb	91.848 %	92.891 %	12.498 ppb	55.719 ppb	92.989 %
Concentration per Run 2	197.959 ppb	96.717 %	95.938 %	12.103 ppb	53.731 ppb	96.484 %
Concentration per Run 3	195.479 ppb	96.336 %	97.518 %	12.067 ppb	53.725 ppb	97.031 %
Concentration RSD	0.9 %	2.9 %	2.5 %	2.0 %	2.1 %	2.3 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 23 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: wg1814674-5D10 2008TL Rack: 1
 Analysis started at: 8/13/2023 10:10:59 AM Vial: 4

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.528 %	97.462 %	5.207 ppb	2,404.483 ppb	1,050.682 ppb	205.071 ppb	1,013.592 ppb	1,378.333 ppb	93.185 %
Concentration per Run 1	92.652 %	94.455 %	5.127 ppb	2,467.717 ppb	1,093.844 ppb	208.395 ppb	1,029.186 ppb	1,395.610 ppb	92.352 %
Concentration per Run 2	92.410 %	100.940 %	5.235 ppb	2,333.530 ppb	1,033.013 ppb	203.025 ppb	1,016.628 ppb	1,337.322 ppb	93.304 %
Concentration per Run 3	92.523 %	96.992 %	5.260 ppb	2,412.203 ppb	1,025.189 ppb	203.792 ppb	994.963 ppb	1,402.068 ppb	93.899 %
Concentration RSD	0.1 %	3.4 %	1.4 %	2.8 %	3.6 %	1.4 %	1.7 %	2.6 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.949 ppb	19.408 ppb	51.316 ppb	180.249 ppb	48.873 ppb	50.904 ppb	39.207 ppb	57.051 ppb	95.627 %
Concentration per Run 1	48.338 ppb	19.425 ppb	52.168 ppb	183.888 ppb	49.967 ppb	52.345 ppb	39.323 ppb	57.987 ppb	93.790 %
Concentration per Run 2	47.400 ppb	18.996 ppb	50.400 ppb	179.742 ppb	47.583 ppb	49.287 ppb	38.954 ppb	56.372 ppb	95.990 %
Concentration per Run 3	48.110 ppb	19.803 ppb	51.380 ppb	177.116 ppb	49.070 ppb	51.080 ppb	39.344 ppb	56.793 ppb	97.101 %
Concentration RSD	1.0 %	2.1 %	1.7 %	1.9 %	2.5 %	3.0 %	0.6 %	1.5 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.507 ppb	11.743 ppb	95.825 ppb	93.125 ppb	92.920 %	5.164 ppb	5.443 ppb	92.606 %	39.824 ppb
Concentration per Run 1	12.663 ppb	11.882 ppb	97.259 ppb	93.465 ppb	90.637 %	5.333 ppb	5.469 ppb	89.759 %	40.447 ppb
Concentration per Run 2	12.277 ppb	10.439 ppb	94.969 ppb	92.383 ppb	93.551 %	5.174 ppb	5.387 ppb	94.370 %	38.957 ppb
Concentration per Run 3	12.581 ppb	12.908 ppb	95.248 ppb	93.527 ppb	94.571 %	4.986 ppb	5.474 ppb	93.689 %	40.069 ppb
Concentration RSD	1.6 %	10.6 %	1.3 %	0.7 %	2.2 %	3.4 %	0.9 %	2.7 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	192.762 ppb	92.260 %	92.803 %	11.963 ppb	54.289 ppb	92.974 %
Concentration per Run 1	197.704 ppb	88.881 %	88.719 %	12.144 ppb	55.408 ppb	91.026 %
Concentration per Run 2	188.313 ppb	93.139 %	94.456 %	11.845 ppb	54.160 ppb	93.016 %
Concentration per Run 3	192.270 ppb	94.760 %	95.234 %	11.899 ppb	53.298 ppb	94.879 %
Concentration RSD	2.4 %	3.3 %	3.8 %	1.3 %	2.0 %	2.1 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 24 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: wg1814674-6 2008TL Rack 1
 Analysis started at: 8/13/2023 10:15:28 AM Vial 5

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.140 %	89.192 %	0.034 ppb	15,777.481 ppb	964.005 ppb	107.099 ppb	915.545 ppb	4,842.590 ppb	95.397 %
Concentration per Run 1	90.424 %	91.353 %	0.038 ppb	15,397.155 ppb	952.638 ppb	106.703 ppb	918.046 ppb	4,927.214 ppb	93.559 %
Concentration per Run 2	91.038 %	87.124 %	0.030 ppb	15,878.930 ppb	949.362 ppb	110.760 ppb	926.325 ppb	4,778.162 ppb	96.385 %
Concentration per Run 3	91.958 %	89.098 %	0.034 ppb	16,056.359 ppb	990.017 ppb	103.834 ppb	902.265 ppb	4,822.393 ppb	96.246 %
Concentration RSD	0.8 %	2.4 %	12.9 %	2.2 %	2.3 %	3.2 %	1.3 %	1.6 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.329 ppb	4.287 ppb	18.723 ppb	876.925 ppb	1.135 ppb	14.491 ppb	127.768 ppb	69.073 ppb	93.295 %
Concentration per Run 1	0.279 ppb	4.276 ppb	19.670 ppb	902.107 ppb	1.135 ppb	14.825 ppb	130.453 ppb	70.861 ppb	89.834 %
Concentration per Run 2	0.324 ppb	4.201 ppb	18.394 ppb	850.287 ppb	1.139 ppb	14.638 ppb	127.683 ppb	68.080 ppb	95.294 %
Concentration per Run 3	0.384 ppb	4.383 ppb	18.106 ppb	878.380 ppb	1.131 ppb	14.011 ppb	125.169 ppb	68.279 ppb	94.758 %
Concentration RSD	16.0 %	2.1 %	4.4 %	3.0 %	0.3 %	2.9 %	2.1 %	2.2 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.096 ppb	0.413 ppb	37.536 ppb	3.012 ppb	90.241 %	0.067 ppb	0.082 ppb	89.756 %	3.093 ppb
Concentration per Run 1	2.134 ppb	0.306 ppb	38.574 ppb	2.849 ppb	86.899 %	0.072 ppb	0.072 ppb	86.181 %	3.203 ppb
Concentration per Run 2	2.050 ppb	0.392 ppb	36.875 ppb	3.212 ppb	91.463 %	0.072 ppb	0.096 ppb	90.072 %	3.158 ppb
Concentration per Run 3	2.105 ppb	0.541 ppb	37.159 ppb	2.975 ppb	92.362 %	0.056 ppb	0.078 ppb	93.017 %	2.916 ppb
Concentration RSD	2.0 %	28.8 %	2.4 %	6.1 %	3.2 %	13.5 %	15.4 %	3.8 %	5.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	10.536 ppb	92.217 %	92.975 %	0.027 ppb	5.393 ppb	89.320 %
Concentration per Run 1	10.969 ppb	89.412 %	91.110 %	0.021 ppb	5.429 ppb	87.987 %
Concentration per Run 2	10.012 ppb	92.638 %	93.030 %	0.028 ppb	5.398 ppb	89.067 %
Concentration per Run 3	10.627 ppb	94.600 %	94.785 %	0.031 ppb	5.351 ppb	90.905 %
Concentration RSD	4.6 %	2.8 %	2.0 %	19.7 %	0.7 %	1.7 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 25 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: WG1814779-4 2008TL Rack 1
 Analysis started at: 8/13/2023 10:19:57 AM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.099 %	87.500 %	0.060 ppb	49,295.783 ppb	4,893.616 ppb	23.973 ppb	2,061.592 ppb	42,126.259 ppb	94.499 %
Concentration per Run 1	88.320 %	83.741 %	0.071 ppb	50,061.569 ppb	4,961.215 ppb	24.501 ppb	2,089.940 ppb	42,609.390 ppb	94.679 %
Concentration per Run 2	88.099 %	82.895 %	0.053 ppb	51,406.699 ppb	5,097.309 ppb	24.314 ppb	2,079.345 ppb	42,372.113 ppb	95.375 %
Concentration per Run 3	87.878 %	95.865 %	0.057 ppb	46,419.080 ppb	4,622.324 ppb	23.104 ppb	2,015.492 ppb	41,397.274 ppb	93.444 %
Concentration RSD	0.3 %	8.3 %	15.8 %	5.2 %	5.0 %	3.2 %	2.0 %	1.5 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.534 ppb	0.222 ppb	2,020.888 ppb	10,469.105 ppb	0.111 ppb	0.293 ppb	1.605 ppb	22.304 ppb	90.166 %
Concentration per Run 1	0.575 ppb	0.193 ppb	2,038.603 ppb	10,394.123 ppb	0.116 ppb	0.213 ppb	1.652 ppb	22.489 ppb	87.306 %
Concentration per Run 2	0.465 ppb	0.233 ppb	2,023.395 ppb	10,704.191 ppb	0.111 ppb	0.376 ppb	1.495 ppb	21.976 ppb	92.593 %
Concentration per Run 3	0.562 ppb	0.240 ppb	2,000.665 ppb	10,309.002 ppb	0.106 ppb	0.290 ppb	1.668 ppb	22.448 ppb	90.600 %
Concentration RSD	11.3 %	11.4 %	0.9 %	2.0 %	4.4 %	28.0 %	5.9 %	1.3 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.824 ppb	0.842 ppb	247.922 ppb	0.700 ppb	84.413 %	0.002 ppb	0.005 ppb	86.439 %	1.409 ppb
Concentration per Run 1	2.818 ppb	0.782 ppb	250.094 ppb	0.515 ppb	81.808 %	0.002 ppb	0.008 ppb	84.003 %	1.397 ppb
Concentration per Run 2	2.839 ppb	0.808 ppb	246.157 ppb	0.758 ppb	84.331 %	0.004 ppb	0.005 ppb	87.469 %	1.464 ppb
Concentration per Run 3	2.815 ppb	0.935 ppb	247.516 ppb	0.828 ppb	87.099 %	-0.001 ppb	0.003 ppb	87.844 %	1.366 ppb
Concentration RSD	0.5 %	9.7 %	0.8 %	23.5 %	3.1 %	153.3 %	49.0 %	2.4 %	3.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	35.342 ppb	90.198 %	90.160 %	0.020 ppb	0.287 ppb	82.579 %
Concentration per Run 1	36.192 ppb	87.051 %	86.889 %	0.016 ppb	0.289 ppb	80.088 %
Concentration per Run 2	35.187 ppb	91.062 %	91.537 %	0.024 ppb	0.295 ppb	83.624 %
Concentration per Run 3	34.647 ppb	92.482 %	92.054 %	0.020 ppb	0.278 ppb	84.025 %
Concentration RSD	2.2 %	3.1 %	3.2 %	18.8 %	2.9 %	2.6 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 26 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: I2344496-07 2008TL Rack: 1
 Analysis started at: 8/13/2023 10:24:27 AM Vial: 8

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.362 %	92.481 %	0.071 ppb	46,838.868 ppb	4,641.587 ppb	22.738 ppb	2,023.956 ppb	40,974.361 ppb	94.388 %
Concentration per Run 1	87.314 %	91.917 %	0.082 ppb	47,177.620 ppb	4,621.675 ppb	21.638 ppb	2,019.945 ppb	41,170.690 ppb	93.482 %
Concentration per Run 2	89.670 %	97.274 %	0.072 ppb	45,067.669 ppb	4,487.485 ppb	21.221 ppb	1,974.508 ppb	39,866.011 ppb	95.504 %
Concentration per Run 3	88.101 %	88.252 %	0.059 ppb	48,271.316 ppb	4,815.603 ppb	25.356 ppb	2,077.416 ppb	41,886.382 ppb	94.178 %
Concentration RSD	1.4 %	4.9 %	15.9 %	3.5 %	3.6 %	10.0 %	2.5 %	2.5 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.580 ppb	0.195 ppb	1,970.329 ppb	10,199.593 ppb	0.115 ppb	0.327 ppb	0.804 ppb	21.874 ppb	90.610 %
Concentration per Run 1	0.587 ppb	0.213 ppb	1,963.856 ppb	10,138.657 ppb	0.104 ppb	0.374 ppb	0.802 ppb	21.998 ppb	88.826 %
Concentration per Run 2	0.552 ppb	0.176 ppb	1,933.455 ppb	10,163.274 ppb	0.125 ppb	0.289 ppb	0.890 ppb	21.549 ppb	90.333 %
Concentration per Run 3	0.601 ppb	0.197 ppb	2,013.675 ppb	10,296.847 ppb	0.116 ppb	0.316 ppb	0.722 ppb	22.076 ppb	92.671 %
Concentration RSD	4.4 %	9.7 %	2.1 %	0.8 %	9.1 %	13.3 %	10.4 %	1.3 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.832 ppb	0.928 ppb	244.302 ppb	0.500 ppb	85.274 %	0.004 ppb	-0.003 ppb	89.396 %	0.835 ppb
Concentration per Run 1	2.629 ppb	0.950 ppb	245.598 ppb	0.435 ppb	82.318 %	0.003 ppb	-0.005 ppb	86.129 %	0.772 ppb
Concentration per Run 2	3.035 ppb	0.996 ppb	244.848 ppb	0.681 ppb	85.950 %	0.003 ppb	-0.004 ppb	90.895 %	0.865 ppb
Concentration per Run 3	2.833 ppb	0.838 ppb	242.460 ppb	0.385 ppb	87.556 %	0.006 ppb	0.000 ppb	91.164 %	0.867 ppb
Concentration RSD	7.2 %	8.8 %	0.7 %	31.7 %	3.1 %	41.1 %	101.7 %	3.2 %	6.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	35.187 ppb	91.135 %	91.649 %	0.014 ppb	0.274 ppb	83.754 %
Concentration per Run 1	35.287 ppb	88.215 %	88.801 %	0.010 ppb	0.274 ppb	80.957 %
Concentration per Run 2	34.560 ppb	91.016 %	91.728 %	0.012 ppb	0.272 ppb	85.070 %
Concentration per Run 3	35.713 ppb	94.175 %	94.420 %	0.018 ppb	0.277 ppb	85.235 %
Concentration RSD	1.7 %	3.3 %	3.1 %	30.9 %	1.1 %	2.9 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 27 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: CCV Rack: 0
 Analysis started at: 8/13/2023 10:28:57 AM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.573 %	92.105 %	57.944 ppb	5,789.566 ppb	5,826.842 ppb	53.896 ppb	5,746.636 ppb	5,752.299 ppb	95.489 %
Concentration per Run 1	91.692 %	88.252 %	58.025 ppb	5,983.167 ppb	5,950.754 ppb	54.781 ppb	5,890.001 ppb	5,841.336 ppb	95.575 %
Concentration per Run 2	92.432 %	96.147 %	57.926 ppb	5,582.981 ppb	5,570.777 ppb	52.042 ppb	5,499.895 ppb	5,591.201 ppb	95.970 %
Concentration per Run 3	90.594 %	91.917 %	57.880 ppb	5,802.551 ppb	5,958.994 ppb	54.864 ppb	5,850.013 ppb	5,824.360 ppb	94.923 %
Recovery Percentage 1			96.573 %	96.493 %	97.114 %	89.826 %	95.777 %	95.872 %	
Concentration RSD	1.0 %	4.3 %	0.1 %	3.5 %	3.8 %	3.0 %	3.7 %	2.4 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.125 ppb	56.374 ppb	57.902 ppb	5,643.788 ppb	57.803 ppb	57.623 ppb	58.144 ppb	58.330 ppb	96.189 %
Concentration per Run 1	57.947 ppb	57.313 ppb	57.590 ppb	5,801.414 ppb	58.983 ppb	58.047 ppb	60.507 ppb	60.096 ppb	93.674 %
Concentration per Run 2	54.649 ppb	54.946 ppb	55.760 ppb	5,429.779 ppb	55.420 ppb	55.802 ppb	55.964 ppb	56.240 ppb	99.279 %
Concentration per Run 3	58.779 ppb	56.862 ppb	60.356 ppb	5,700.171 ppb	59.005 ppb	59.021 ppb	57.962 ppb	58.654 ppb	95.613 %
Recovery Percentage 1	95.208 %	93.956 %	96.504 %	94.063 %	96.338 %	96.039 %	96.907 %	97.217 %	
Concentration RSD	3.8 %	2.2 %	4.0 %	3.4 %	3.6 %	2.9 %	3.9 %	3.3 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	56.609 ppb	56.100 ppb	49.089 ppb	53.790 ppb	92.133 %	56.788 ppb	57.026 ppb	91.298 %	56.317 ppb
Concentration per Run 1	57.125 ppb	55.136 ppb	49.688 ppb	53.559 ppb	89.617 %	57.592 ppb	57.686 ppb	89.567 %	57.089 ppb
Concentration per Run 2	54.267 ppb	54.131 ppb	48.314 ppb	52.857 ppb	92.542 %	56.680 ppb	57.213 ppb	90.421 %	56.083 ppb
Concentration per Run 3	58.434 ppb	59.032 ppb	49.264 ppb	54.953 ppb	94.240 %	56.092 ppb	56.180 ppb	93.905 %	55.778 ppb
Recovery Percentage 1	94.348 %	93.499 %	81.814 %	89.649 %		94.646 %	95.044 %		93.861 %
Concentration RSD	3.8 %	4.6 %	1.4 %	2.0 %	2.5 %	1.3 %	1.4 %	2.5 %	1.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	54.795 ppb	92.842 %	93.123 %	55.823 ppb	56.077 ppb	91.501 %
Concentration per Run 1	56.043 ppb	90.505 %	91.259 %	55.831 ppb	56.496 ppb	88.927 %
Concentration per Run 2	54.488 ppb	92.714 %	93.718 %	55.586 ppb	55.927 ppb	92.714 %
Concentration per Run 3	53.854 ppb	95.306 %	94.392 %	56.053 ppb	55.809 ppb	92.861 %
Recovery Percentage 1	91.325 %			93.039 %	93.462 %	
Concentration RSD	2.1 %	2.6 %	1.8 %	0.4 %	0.7 %	2.4 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 28 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: CCB Rack: 0
 Analysis started at: 8/13/2023 10:33:29 AM Vial: 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.368 %	94.737 %	0.008 ppb	-3.443 ppb	-1.542 ppb	-1.957 ppb	-9.323 ppb	0.474 ppb	93.417 %
Concentration per Run 1	91.993 %	91.635 %	0.006 ppb	-4.205 ppb	-1.340 ppb	-1.926 ppb	-9.298 ppb	3.809 ppb	93.178 %
Concentration per Run 2	91.113 %	96.992 %	0.008 ppb	-3.168 ppb	-2.126 ppb	-2.002 ppb	-12.018 ppb	-5.235 ppb	93.085 %
Concentration per Run 3	90.999 %	95.583 %	0.010 ppb	-2.957 ppb	-1.161 ppb	-1.943 ppb	-6.653 ppb	2.850 ppb	93.987 %
Recovery Percentage 1			1.601 %	-3.443 %	-2.203 %	-19.570 %	-9.323 %	0.474 %	
Concentration RSD	0.6 %	2.9 %	20.9 %	19.4 %	33.3 %	2.0 %	28.8 %	1,046.9 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.008 ppb	-0.014 ppb	-0.237 ppb	2.023 ppb	-0.001 ppb	-0.059 ppb	-0.044 ppb	-0.937 ppb	94.679 %
Concentration per Run 1	0.003 ppb	0.000 ppb	-0.301 ppb	1.467 ppb	-0.002 ppb	-0.034 ppb	-0.039 ppb	-0.959 ppb	93.553 %
Concentration per Run 2	-0.035 ppb	-0.038 ppb	-0.267 ppb	2.328 ppb	0.005 ppb	-0.086 ppb	-0.033 ppb	-0.903 ppb	91.890 %
Concentration per Run 3	0.007 ppb	-0.003 ppb	-0.142 ppb	2.274 ppb	-0.005 ppb	-0.057 ppb	-0.059 ppb	-0.950 ppb	98.595 %
Recovery Percentage 1	-0.169 %	-1.352 %	-23.660 %	4.046 %	-0.130 %	-2.957 %	-4.376 %	-18.747 %	
Concentration RSD	275.0 %	158.9 %	35.5 %	23.8 %	788.1 %	44.5 %	30.7 %	3.3 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.210 ppb	1.522 ppb	-0.014 ppb	0.996 ppb	95.743 %	0.003 ppb	-0.002 ppb	91.545 %	0.374 ppb
Concentration per Run 1	0.149 ppb	1.092 ppb	-0.007 ppb	0.769 ppb	92.882 %	0.002 ppb	-0.006 ppb	89.640 %	0.346 ppb
Concentration per Run 2	0.233 ppb	1.714 ppb	-0.013 ppb	1.191 ppb	96.822 %	0.005 ppb	-0.002 ppb	91.115 %	0.378 ppb
Concentration per Run 3	0.248 ppb	1.760 ppb	-0.023 ppb	1.028 ppb	97.525 %	0.001 ppb	0.002 ppb	93.881 %	0.399 ppb
Recovery Percentage 1	42.065 %	30.438 %	-0.145 %	49.802 %		0.680 %	-0.988 %		9.357 %
Concentration RSD	25.3 %	24.5 %	55.9 %	21.4 %	2.6 %	81.1 %	187.2 %	2.4 %	7.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.007 ppb	93.080 %	92.915 %	0.296 ppb	-0.002 ppb	94.727 %
Concentration per Run 1	-0.034 ppb	90.654 %	90.474 %	0.305 ppb	-0.001 ppb	91.972 %
Concentration per Run 2	0.031 ppb	93.128 %	93.164 %	0.331 ppb	-0.002 ppb	95.398 %
Concentration per Run 3	-0.020 ppb	95.460 %	95.108 %	0.254 ppb	-0.005 ppb	96.811 %
Recovery Percentage 1	-1.494 %			29.647 %	-0.249 %	
Concentration RSD	456.9 %	2.6 %	2.5 %	13.3 %	81.3 %	2.6 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 29 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1814779-3D10 2008TL Rack: 1
 Analysis started at: 8/13/2023 10:39:33 AM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.738 %	93.797 %	10.099 ppb	6,155.864 ppb	2,371.496 ppb	391.497 ppb	2,107.277 ppb	5,957.054 ppb	92.136 %
Concentration per Run 1	89.398 %	91.635 %	10.071 ppb	6,356.454 ppb	2,398.443 ppb	405.245 ppb	2,144.940 ppb	6,202.245 ppb	92.551 %
Concentration per Run 2	90.189 %	92.481 %	10.103 ppb	6,270.529 ppb	2,387.848 ppb	379.850 ppb	2,079.801 ppb	5,669.674 ppb	92.083 %
Concentration per Run 3	89.628 %	97.274 %	10.123 ppb	5,840.611 ppb	2,328.198 ppb	389.396 ppb	2,097.090 ppb	5,999.243 ppb	91.773 %
Concentration RSD	0.5 %	3.2 %	0.3 %	4.5 %	1.6 %	3.3 %	1.6 %	4.5 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	94.867 ppb	37.976 ppb	289.629 ppb	1,188.006 ppb	96.959 ppb	96.155 ppb	49.705 ppb	100.239 ppb	92.821 %
Concentration per Run 1	95.707 ppb	38.737 ppb	295.712 ppb	1,174.002 ppb	99.524 ppb	97.346 ppb	51.729 ppb	103.330 ppb	88.262 %
Concentration per Run 2	92.173 ppb	37.684 ppb	279.852 ppb	1,189.118 ppb	92.024 ppb	93.578 ppb	47.566 ppb	95.701 ppb	98.212 %
Concentration per Run 3	96.721 ppb	37.507 ppb	293.323 ppb	1,200.898 ppb	99.330 ppb	97.540 ppb	49.821 ppb	101.687 ppb	91.990 %
Concentration RSD	2.5 %	1.8 %	3.0 %	1.1 %	4.4 %	2.3 %	4.2 %	4.0 %	5.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	24.431 ppb	24.116 ppb	206.124 ppb	184.959 ppb	88.907 %	9.859 ppb	10.513 ppb	89.460 %	79.465 ppb
Concentration per Run 1	25.824 ppb	23.997 ppb	210.520 ppb	187.036 ppb	86.039 %	10.095 ppb	10.783 ppb	87.292 %	79.134 ppb
Concentration per Run 2	22.709 ppb	22.592 ppb	200.230 ppb	182.476 ppb	88.934 %	9.804 ppb	10.462 ppb	88.828 %	80.088 ppb
Concentration per Run 3	24.761 ppb	25.759 ppb	207.622 ppb	185.365 ppb	91.747 %	9.679 ppb	10.295 ppb	92.260 %	79.174 ppb
Concentration RSD	6.5 %	6.6 %	2.6 %	1.2 %	3.2 %	2.2 %	2.4 %	2.8 %	0.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	375.988 ppb	90.391 %	91.640 %	23.344 ppb	104.600 ppb	89.287 %
Concentration per Run 1	375.024 ppb	85.967 %	87.709 %	23.552 ppb	106.317 ppb	85.875 %
Concentration per Run 2	377.266 ppb	91.783 %	92.913 %	22.980 ppb	103.249 ppb	90.062 %
Concentration per Run 3	375.674 ppb	93.424 %	94.298 %	23.500 ppb	104.235 ppb	91.924 %
Concentration RSD	0.3 %	4.3 %	3.8 %	1.4 %	1.5 %	3.5 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 30 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: I2344496-06 2008TL Rack: 1
 Analysis started at: 8/13/2023 10:44:02 AM Vial: 11

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.363 %	93.045 %	0.035 ppb	42,807.191 ppb	4,462.154 ppb	18.244 ppb	2,168.702 ppb	39,409.801 ppb	94.072 %
Concentration per Run 1	87.958 %	87.406 %	0.036 ppb	44,070.193 ppb	4,613.125 ppb	18.991 ppb	2,211.364 ppb	40,420.570 ppb	93.788 %
Concentration per Run 2	87.936 %	93.891 %	0.031 ppb	43,056.984 ppb	4,460.526 ppb	17.844 ppb	2,153.224 ppb	38,564.890 ppb	93.659 %
Concentration per Run 3	86.195 %	97.838 %	0.037 ppb	41,294.397 ppb	4,312.812 ppb	17.899 ppb	2,141.518 ppb	39,243.943 ppb	94.769 %
Concentration RSD	1.2 %	5.7 %	9.7 %	3.3 %	3.4 %	3.5 %	1.7 %	2.4 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.597 ppb	0.184 ppb	1,477.531 ppb	11,997.974 ppb	0.405 ppb	0.366 ppb	0.593 ppb	3.415 ppb	90.310 %
Concentration per Run 1	0.684 ppb	0.165 ppb	1,486.855 ppb	12,138.591 ppb	0.403 ppb	0.394 ppb	0.576 ppb	3.489 ppb	87.943 %
Concentration per Run 2	0.581 ppb	0.181 ppb	1,456.782 ppb	11,928.259 ppb	0.424 ppb	0.337 ppb	0.553 ppb	3.286 ppb	92.466 %
Concentration per Run 3	0.527 ppb	0.206 ppb	1,488.956 ppb	11,927.071 ppb	0.389 ppb	0.368 ppb	0.650 ppb	3.468 ppb	90.520 %
Concentration RSD	13.3 %	11.4 %	1.2 %	1.0 %	4.4 %	7.7 %	8.6 %	3.3 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.945 ppb	1.036 ppb	231.961 ppb	2.639 ppb	84.926 %	-0.001 ppb	0.000 ppb	87.657 %	2.632 ppb
Concentration per Run 1	3.088 ppb	0.992 ppb	232.765 ppb	2.429 ppb	82.862 %	-0.001 ppb	-0.005 ppb	84.529 %	2.643 ppb
Concentration per Run 2	2.861 ppb	1.075 ppb	229.145 ppb	2.720 ppb	85.577 %	0.001 ppb	0.003 ppb	88.382 %	2.681 ppb
Concentration per Run 3	2.885 ppb	1.042 ppb	233.973 ppb	2.767 ppb	86.337 %	-0.002 ppb	0.003 ppb	90.060 %	2.572 ppb
Concentration RSD	4.2 %	4.0 %	1.1 %	6.9 %	2.2 %	234.6 %	7,307.4 %	3.2 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	32.022 ppb	88.946 %	89.236 %	0.056 ppb	0.286 ppb	82.795 %
Concentration per Run 1	32.227 ppb	86.076 %	86.383 %	0.044 ppb	0.288 ppb	79.724 %
Concentration per Run 2	32.185 ppb	90.126 %	89.759 %	0.066 ppb	0.299 ppb	83.055 %
Concentration per Run 3	31.653 ppb	90.636 %	91.566 %	0.059 ppb	0.270 ppb	85.606 %
Concentration RSD	1.0 %	2.8 %	2.9 %	20.0 %	5.2 %	3.6 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 31 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: I2344503-01 2008TL Rack: 1
 Analysis started at: 8/13/2023 10:50:44 AM Vial: 12

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.056 %	85.432 %	0.050 ppb	42,633.741 ppb	4,330.182 ppb	18.019 ppb	1,863.661 ppb	37,336.199 ppb	94.348 %
Concentration per Run 1	87.367 %	85.714 %	0.060 ppb	40,173.921 ppb	4,268.364 ppb	17.863 ppb	1,897.306 ppb	36,947.988 ppb	94.553 %
Concentration per Run 2	87.610 %	83.740 %	0.051 ppb	44,560.299 ppb	4,428.233 ppb	17.915 ppb	1,825.588 ppb	37,192.653 ppb	94.808 %
Concentration per Run 3	86.189 %	86.842 %	0.041 ppb	43,167.003 ppb	4,293.948 ppb	18.279 ppb	1,868.089 ppb	37,867.956 ppb	93.683 %
Concentration RSD	0.9 %	1.8 %	18.8 %	5.3 %	2.0 %	1.3 %	1.9 %	1.3 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.359 ppb	0.171 ppb	1,741.876 ppb	7,916.296 ppb	0.091 ppb	1.240 ppb	6.673 ppb	72.724 ppb	88.632 %
Concentration per Run 1	0.316 ppb	0.141 ppb	1,757.182 ppb	7,893.524 ppb	0.074 ppb	1.281 ppb	6.721 ppb	72.322 ppb	85.367 %
Concentration per Run 2	0.305 ppb	0.198 ppb	1,733.570 ppb	7,938.684 ppb	0.093 ppb	1.181 ppb	6.443 ppb	72.398 ppb	90.032 %
Concentration per Run 3	0.457 ppb	0.175 ppb	1,734.877 ppb	7,916.681 ppb	0.107 ppb	1.257 ppb	6.855 ppb	73.452 ppb	90.496 %
Concentration RSD	23.7 %	16.5 %	0.8 %	0.3 %	18.0 %	4.2 %	3.1 %	0.9 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.371 ppb	0.771 ppb	215.268 ppb	0.765 ppb	83.941 %	-0.001 ppb	0.032 ppb	86.160 %	1.192 ppb
Concentration per Run 1	2.255 ppb	0.589 ppb	218.242 ppb	0.669 ppb	80.836 %	0.000 ppb	0.039 ppb	82.969 %	1.197 ppb
Concentration per Run 2	2.395 ppb	0.866 ppb	213.022 ppb	0.762 ppb	84.794 %	-0.001 ppb	0.031 ppb	85.121 %	1.207 ppb
Concentration per Run 3	2.464 ppb	0.856 ppb	214.541 ppb	0.864 ppb	86.193 %	-0.003 ppb	0.027 ppb	90.390 %	1.171 ppb
Concentration RSD	4.5 %	20.4 %	1.2 %	12.8 %	3.3 %	126.7 %	18.7 %	4.4 %	1.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	30.687 ppb	88.975 %	89.949 %	0.038 ppb	2.579 ppb	82.758 %
Concentration per Run 1	30.388 ppb	84.623 %	86.346 %	0.040 ppb	2.610 ppb	79.070 %
Concentration per Run 2	31.167 ppb	89.910 %	91.483 %	0.035 ppb	2.551 ppb	83.756 %
Concentration per Run 3	30.505 ppb	92.392 %	92.018 %	0.038 ppb	2.577 ppb	85.447 %
Concentration RSD	1.4 %	4.5 %	3.5 %	6.5 %	1.2 %	4.0 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 32 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: I2344503-02 2008TL Rack: 1
 Analysis started at: 8/13/2023 10:55:14 AM Vial: 13

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.966 %	86.372 %	0.024 ppb	43,665.377 ppb	4,318.799 ppb	12.877 ppb	1,836.694 ppb	36,613.474 ppb	93.560 %
Concentration per Run 1	87.773 %	82.049 %	0.020 ppb	44,530.052 ppb	4,371.312 ppb	12.387 ppb	1,915.688 ppb	37,300.586 ppb	92.292 %
Concentration per Run 2	89.073 %	78.947 %	0.023 ppb	46,617.282 ppb	4,592.969 ppb	13.585 ppb	1,884.488 ppb	37,264.322 ppb	94.452 %
Concentration per Run 3	87.052 %	98.120 %	0.029 ppb	39,848.798 ppb	3,992.114 ppb	12.658 ppb	1,709.906 ppb	35,275.513 ppb	93.937 %
Concentration RSD	1.2 %	11.9 %	18.9 %	7.9 %	7.0 %	4.9 %	6.0 %	3.2 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.095 ppb	0.200 ppb	1,725.830 ppb	7,799.596 ppb	0.157 ppb	0.366 ppb	0.437 ppb	1.884 ppb	90.853 %
Concentration per Run 1	0.065 ppb	0.181 ppb	1,728.358 ppb	7,786.886 ppb	0.167 ppb	0.393 ppb	0.430 ppb	1.964 ppb	89.432 %
Concentration per Run 2	0.087 ppb	0.220 ppb	1,754.666 ppb	7,912.682 ppb	0.146 ppb	0.352 ppb	0.397 ppb	1.817 ppb	92.954 %
Concentration per Run 3	0.132 ppb	0.200 ppb	1,694.465 ppb	7,699.219 ppb	0.159 ppb	0.351 ppb	0.485 ppb	1.871 ppb	90.174 %
Concentration RSD	36.1 %	9.7 %	1.7 %	1.4 %	6.9 %	6.5 %	10.2 %	3.9 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.577 ppb	0.290 ppb	210.054 ppb	0.405 ppb	85.993 %	0.002 ppb	-0.003 ppb	88.031 %	0.689 ppb
Concentration per Run 1	3.442 ppb	0.209 ppb	209.548 ppb	0.269 ppb	83.800 %	0.002 ppb	-0.001 ppb	84.705 %	0.700 ppb
Concentration per Run 2	3.307 ppb	0.264 ppb	209.462 ppb	0.450 ppb	85.822 %	0.006 ppb	-0.001 ppb	88.776 %	0.683 ppb
Concentration per Run 3	3.981 ppb	0.398 ppb	211.152 ppb	0.497 ppb	88.357 %	-0.001 ppb	-0.008 ppb	90.613 %	0.685 ppb
Concentration RSD	10.0 %	33.4 %	0.5 %	29.7 %	2.7 %	160.9 %	107.6 %	3.4 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	30.547 ppb	89.695 %	90.356 %	0.020 ppb	0.080 ppb	84.163 %
Concentration per Run 1	29.756 ppb	87.224 %	89.028 %	0.013 ppb	0.081 ppb	82.466 %
Concentration per Run 2	30.703 ppb	89.382 %	90.333 %	0.021 ppb	0.080 ppb	84.571 %
Concentration per Run 3	31.182 ppb	92.478 %	91.707 %	0.025 ppb	0.079 ppb	85.454 %
Concentration RSD	2.4 %	2.9 %	1.5 %	32.6 %	0.9 %	1.8 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 33 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2344308-05D10 CT-6020TL Rack 1
 Analysis started at: 8/13/2023 10:59:41 AM Vial 15

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.811 %	87.500 %	0.016 ppb	281,877.098 ppb	2,807.477 ppb	5.051 ppb	1,228.206 ppb	17,371.731 ppb	83.601 %
Concentration per Run 1	79.710 %	87.124 %	0.025 ppb	277,226.677 ppb	2,756.950 ppb	4.659 ppb	1,246.973 ppb	17,430.760 ppb	83.124 %
Concentration per Run 2	78.348 %	83.740 %	0.006 ppb	292,515.943 ppb	2,878.698 ppb	5.187 ppb	1,229.549 ppb	17,555.357 ppb	82.895 %
Concentration per Run 3	78.377 %	91.635 %	0.017 ppb	275,888.673 ppb	2,786.783 ppb	5.308 ppb	1,208.095 ppb	17,129.077 ppb	84.784 %
Concentration RSD	1.0 %	4.5 %	60.1 %	3.3 %	2.3 %	6.8 %	1.6 %	1.3 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.039 ppb	45.213 ppb	0.123 ppb	7.483 ppb	0.022 ppb	0.283 ppb	0.031 ppb	-0.518 ppb	79.105 %
Concentration per Run 1	0.024 ppb	45.575 ppb	0.018 ppb	5.141 ppb	0.023 ppb	0.284 ppb	0.049 ppb	-0.518 ppb	76.025 %
Concentration per Run 2	0.057 ppb	45.216 ppb	0.219 ppb	9.051 ppb	0.024 ppb	0.290 ppb	0.017 ppb	-0.532 ppb	80.090 %
Concentration per Run 3	0.035 ppb	44.849 ppb	0.133 ppb	8.256 ppb	0.018 ppb	0.276 ppb	0.027 ppb	-0.504 ppb	81.200 %
Concentration RSD	42.8 %	0.8 %	81.9 %	27.6 %	15.6 %	2.4 %	53.2 %	2.7 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.156 ppb	1.281 ppb	39.057 ppb	0.262 ppb	72.496 %	0.011 ppb	0.004 ppb	75.488 %	0.466 ppb
Concentration per Run 1	0.149 ppb	0.995 ppb	39.572 ppb	0.206 ppb	70.180 %	0.012 ppb	0.005 ppb	72.969 %	0.439 ppb
Concentration per Run 2	0.140 ppb	1.549 ppb	38.869 ppb	0.279 ppb	72.925 %	0.011 ppb	0.002 ppb	75.794 %	0.447 ppb
Concentration per Run 3	0.178 ppb	1.300 ppb	38.729 ppb	0.300 ppb	74.382 %	0.011 ppb	0.004 ppb	77.701 %	0.513 ppb
Concentration RSD	12.6 %	21.7 %	1.2 %	18.9 %	2.9 %	3.2 %	37.6 %	3.2 %	8.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.065 ppb	82.867 %	84.841 %	0.014 ppb	0.065 ppb	71.382 %
Concentration per Run 1	1.030 ppb	79.343 %	82.331 %	0.009 ppb	0.065 ppb	70.215 %
Concentration per Run 2	1.163 ppb	84.210 %	86.338 %	0.015 ppb	0.065 ppb	70.951 %
Concentration per Run 3	1.002 ppb	85.047 %	85.855 %	0.019 ppb	0.065 ppb	72.980 %
Concentration RSD	8.1 %	3.7 %	2.6 %	34.0 %	0.5 %	2.0 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 34 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: I2344308-02D5 CT-6020SL Rack: 1
 Analysis started at: 8/13/2023 11:04:09 AM Vial: 16

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.020 %	86.748 %	0.007 ppb	186,283.381 ppb	16,984.873 ppb	16.512 ppb	2,601.281 ppb	83,569.380 ppb	78.517 %
Concentration per Run 1	78.526 %	91.353 %	0.001 ppb	178,544.419 ppb	16,468.780 ppb	16.082 ppb	2,612.884 ppb	82,028.360 ppb	79.099 %
Concentration per Run 2	78.234 %	86.560 %	0.008 ppb	185,664.664 ppb	16,729.210 ppb	16.984 ppb	2,577.968 ppb	82,299.366 ppb	78.388 %
Concentration per Run 3	77.300 %	82.331 %	0.011 ppb	194,641.061 ppb	17,756.629 ppb	16.470 ppb	2,612.991 ppb	86,380.415 ppb	78.064 %
Concentration RSD	0.8 %	5.2 %	76.4 %	4.3 %	4.0 %	2.7 %	0.8 %	2.9 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.795 ppb	0.034 ppb	818.248 ppb	30.294 ppb	0.190 ppb	0.401 ppb	0.103 ppb	-0.196 ppb	79.511 %
Concentration per Run 1	1.855 ppb	0.045 ppb	806.100 ppb	31.897 ppb	0.214 ppb	0.396 ppb	0.142 ppb	-0.171 ppb	77.332 %
Concentration per Run 2	1.721 ppb	0.040 ppb	818.639 ppb	33.017 ppb	0.183 ppb	0.368 ppb	0.060 ppb	-0.175 ppb	81.956 %
Concentration per Run 3	1.810 ppb	0.018 ppb	830.004 ppb	25.969 ppb	0.174 ppb	0.439 ppb	0.107 ppb	-0.242 ppb	79.246 %
Concentration RSD	3.8 %	41.3 %	1.5 %	12.5 %	11.0 %	9.0 %	39.9 %	20.5 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.372 ppb	0.175 ppb	139.325 ppb	0.647 ppb	73.117 %	0.007 ppb	0.002 ppb	76.339 %	0.338 ppb
Concentration per Run 1	0.339 ppb	0.026 ppb	139.742 ppb	0.463 ppb	71.934 %	0.010 ppb	0.000 ppb	75.465 %	0.289 ppb
Concentration per Run 2	0.352 ppb	0.210 ppb	137.200 ppb	0.791 ppb	73.525 %	0.007 ppb	0.009 ppb	76.222 %	0.343 ppb
Concentration per Run 3	0.424 ppb	0.289 ppb	141.033 ppb	0.686 ppb	73.893 %	0.004 ppb	-0.005 ppb	77.330 %	0.382 ppb
Concentration RSD	12.3 %	77.2 %	1.4 %	25.9 %	1.4 %	42.5 %	482.1 %	1.2 %	13.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2.973 ppb	79.439 %	80.476 %	0.017 ppb	0.066 ppb	71.386 %
Concentration per Run 1	2.574 ppb	76.524 %	77.967 %	0.006 ppb	0.068 ppb	69.595 %
Concentration per Run 2	3.223 ppb	80.576 %	81.762 %	0.021 ppb	0.065 ppb	71.861 %
Concentration per Run 3	3.123 ppb	81.219 %	81.698 %	0.024 ppb	0.067 ppb	72.701 %
Concentration RSD	11.7 %	3.2 %	2.7 %	56.7 %	1.9 %	2.3 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 35 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2344308-05D10 CT-6020SL Rack 1
 Analysis started at: 8/13/2023 11:08:37 AM Vial 17

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.472 %	85.808 %	0.012 ppb	284,194.104 ppb	2,833.942 ppb	2.411 ppb	1,236.952 ppb	17,302.766 ppb	79.422 %
Concentration per Run 1	76.039 %	82.331 %	0.005 ppb	294,919.747 ppb	2,899.373 ppb	2.622 ppb	1,267.906 ppb	17,621.270 ppb	79.405 %
Concentration per Run 2	75.455 %	91.635 %	0.013 ppb	265,406.405 ppb	2,672.476 ppb	1.645 ppb	1,199.319 ppb	16,858.373 ppb	80.438 %
Concentration per Run 3	74.922 %	83.459 %	0.018 ppb	292,256.159 ppb	2,929.978 ppb	2.966 ppb	1,243.630 ppb	17,428.654 ppb	78.424 %
Concentration RSD	0.7 %	5.9 %	54.3 %	5.7 %	5.0 %	28.4 %	2.8 %	2.3 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.038 ppb	43.987 ppb	0.059 ppb	1.864 ppb	0.011 ppb	0.294 ppb	0.233 ppb	-0.300 ppb	78.407 %
Concentration per Run 1	0.063 ppb	44.287 ppb	0.025 ppb	2.189 ppb	0.012 ppb	0.310 ppb	0.234 ppb	-0.292 ppb	76.166 %
Concentration per Run 2	0.020 ppb	43.247 ppb	0.086 ppb	3.518 ppb	0.018 ppb	0.390 ppb	0.241 ppb	-0.289 ppb	80.208 %
Concentration per Run 3	0.033 ppb	44.426 ppb	0.066 ppb	-0.114 ppb	0.003 ppb	0.183 ppb	0.223 ppb	-0.318 ppb	78.846 %
Concentration RSD	57.8 %	1.5 %	52.7 %	98.6 %	71.8 %	35.4 %	3.8 %	5.2 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.116 ppb	1.645 ppb	38.824 ppb	0.167 ppb	71.078 %	0.011 ppb	0.002 ppb	73.720 %	0.242 ppb
Concentration per Run 1	0.106 ppb	1.557 ppb	39.318 ppb	0.099 ppb	68.692 %	0.002 ppb	0.011 ppb	72.581 %	0.224 ppb
Concentration per Run 2	0.105 ppb	2.076 ppb	38.280 ppb	0.064 ppb	71.974 %	0.016 ppb	-0.002 ppb	73.384 %	0.238 ppb
Concentration per Run 3	0.137 ppb	1.303 ppb	38.875 ppb	0.338 ppb	72.567 %	0.014 ppb	-0.002 ppb	75.193 %	0.264 ppb
Concentration RSD	15.5 %	23.9 %	1.3 %	89.2 %	2.9 %	69.7 %	378.5 %	1.8 %	8.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.909 ppb	80.362 %	82.265 %	0.008 ppb	0.055 ppb	69.712 %
Concentration per Run 1	0.824 ppb	78.790 %	80.696 %	0.004 ppb	0.053 ppb	68.254 %
Concentration per Run 2	1.049 ppb	79.983 %	82.286 %	0.015 ppb	0.058 ppb	69.941 %
Concentration per Run 3	0.855 ppb	82.313 %	83.812 %	0.007 ppb	0.055 ppb	70.942 %
Concentration RSD	13.4 %	2.2 %	1.9 %	68.0 %	4.6 %	1.9 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 36 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: WG1812058-1D10 6020TS Rack 1
 Analysis started at: 8/13/2023 11:16:25 AM Vial 18

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.096 %	97.368 %	0.010 ppb	3.240 ppb	0.306 ppb	-1.323 ppb	-5.648 ppb	-3.677 ppb	92.196 %
Concentration per Run 1	92.441 %	89.098 %	0.016 ppb	4.131 ppb	2.029 ppb	-1.511 ppb	-7.024 ppb	3.405 ppb	92.726 %
Concentration per Run 2	91.672 %	103.196 %	0.004 ppb	1.679 ppb	-0.993 ppb	-0.934 ppb	-4.987 ppb	-4.348 ppb	91.324 %
Concentration per Run 3	92.176 %	99.812 %	0.010 ppb	3.908 ppb	-0.120 ppb	-1.524 ppb	-4.934 ppb	-10.088 ppb	92.538 %
Concentration RSD	0.4 %	7.6 %	56.6 %	41.8 %	508.8 %	25.5 %	21.1 %	184.2 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.004 ppb	-0.009 ppb	-0.158 ppb	-1.317 ppb	0.005 ppb	-0.009 ppb	-0.036 ppb	-0.593 ppb	93.266 %
Concentration per Run 1	0.013 ppb	-0.016 ppb	-0.131 ppb	-2.298 ppb	-0.002 ppb	-0.003 ppb	-0.032 ppb	-0.585 ppb	90.693 %
Concentration per Run 2	0.008 ppb	-0.017 ppb	-0.204 ppb	-0.258 ppb	0.016 ppb	0.032 ppb	-0.029 ppb	-0.537 ppb	93.151 %
Concentration per Run 3	-0.008 ppb	0.006 ppb	-0.140 ppb	-1.397 ppb	0.000 ppb	-0.056 ppb	-0.047 ppb	-0.656 ppb	95.956 %
Concentration RSD	242.6 %	146.2 %	25.2 %	77.6 %	209.9 %	503.3 %	27.5 %	10.2 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.011 ppb	0.064 ppb	0.018 ppb	0.062 ppb	92.206 %	0.004 ppb	-0.005 ppb	89.232 %	0.243 ppb
Concentration per Run 1	0.022 ppb	0.019 ppb	0.004 ppb	0.038 ppb	89.154 %	0.001 ppb	-0.008 ppb	87.294 %	0.238 ppb
Concentration per Run 2	-0.009 ppb	0.071 ppb	0.023 ppb	0.050 ppb	93.774 %	0.007 ppb	-0.002 ppb	89.546 %	0.237 ppb
Concentration per Run 3	0.019 ppb	0.103 ppb	0.026 ppb	0.099 ppb	93.689 %	0.005 ppb	-0.006 ppb	90.857 %	0.255 ppb
Concentration RSD	164.0 %	66.0 %	65.9 %	52.2 %	2.9 %	76.6 %	59.5 %	2.0 %	4.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.022 ppb	89.227 %	89.956 %	0.007 ppb	0.061 ppb	91.259 %
Concentration per Run 1	-0.043 ppb	85.774 %	86.045 %	0.008 ppb	0.063 ppb	89.306 %
Concentration per Run 2	0.006 ppb	90.097 %	90.668 %	0.007 ppb	0.060 ppb	92.043 %
Concentration per Run 3	-0.028 ppb	91.810 %	93.155 %	0.008 ppb	0.060 ppb	92.428 %
Concentration RSD	115.0 %	3.5 %	4.0 %	9.7 %	3.0 %	1.9 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 37 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: WG1812058-2D10 6020TS Rack 1
 Analysis started at: 8/13/2023 11:20:54 AM Vial 19

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.838 %	99.436 %	57.103 ppb	1,162.512 ppb	1,489.447 ppb	4,024.286 ppb	1,207.721 ppb	3,263.467 ppb	95.813 %
Concentration per Run 1	90.931 %	93.045 %	57.831 ppb	1,238.704 ppb	1,540.453 ppb	4,149.156 ppb	1,208.422 ppb	3,310.040 ppb	95.226 %
Concentration per Run 2	90.577 %	102.068 %	56.924 ppb	1,134.857 ppb	1,508.942 ppb	4,022.304 ppb	1,240.884 ppb	3,264.033 ppb	96.330 %
Concentration per Run 3	91.006 %	103.196 %	56.554 ppb	1,113.974 ppb	1,418.947 ppb	3,901.399 ppb	1,173.857 ppb	3,216.328 ppb	95.883 %
Concentration RSD	0.3 %	5.6 %	1.2 %	5.7 %	4.2 %	3.1 %	2.8 %	1.4 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	143.269 ppb	139.071 ppb	269.357 ppb	9,995.857 ppb	70.510 ppb	123.839 ppb	100.072 ppb	170.048 ppb	92.209 %
Concentration per Run 1	145.884 ppb	142.840 ppb	278.173 ppb	10,355.857 ppb	72.707 ppb	128.103 ppb	102.830 ppb	174.595 ppb	89.505 %
Concentration per Run 2	143.428 ppb	138.511 ppb	268.575 ppb	10,037.467 ppb	71.700 ppb	125.735 ppb	102.487 ppb	172.910 ppb	90.110 %
Concentration per Run 3	140.496 ppb	135.863 ppb	261.323 ppb	9,594.246 ppb	67.122 ppb	117.679 ppb	94.899 ppb	162.641 ppb	97.012 %
Concentration RSD	1.9 %	2.5 %	3.1 %	3.8 %	4.2 %	4.4 %	4.5 %	3.8 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	140.315 ppb	161.878 ppb	77.102 ppb	126.796 ppb	90.031 %	52.445 ppb	171.648 ppb	87.953 %	129.842 ppb
Concentration per Run 1	141.925 ppb	163.023 ppb	78.410 ppb	124.609 ppb	87.597 %	53.076 ppb	173.640 ppb	85.357 %	131.638 ppb
Concentration per Run 2	144.761 ppb	161.908 ppb	77.912 ppb	127.359 ppb	91.054 %	51.749 ppb	171.570 ppb	88.862 %	128.507 ppb
Concentration per Run 3	134.260 ppb	160.703 ppb	74.983 ppb	128.418 ppb	91.443 %	52.511 ppb	169.734 ppb	89.640 %	129.382 ppb
Concentration RSD	3.9 %	0.7 %	2.4 %	1.6 %	2.4 %	1.3 %	1.1 %	2.6 %	1.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	207.176 ppb	88.677 %	88.082 %	61.710 ppb	188.969 ppb	91.537 %
Concentration per Run 1	208.667 ppb	85.983 %	86.023 %	61.213 ppb	189.208 ppb	89.888 %
Concentration per Run 2	206.413 ppb	88.827 %	88.248 %	61.717 ppb	188.386 ppb	92.430 %
Concentration per Run 3	206.448 ppb	91.221 %	89.976 %	62.200 ppb	189.312 ppb	92.292 %
Concentration RSD	0.6 %	3.0 %	2.3 %	0.8 %	0.3 %	1.6 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 38 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2344633-02D10 6020TS Rack 1
 Analysis started at: 8/13/2023 11:25:23 AM Vial 20

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.795 %	89.286 %	0.534 ppb	219.557 ppb	18,963.012 ppb	6,431.402 ppb	945.190 ppb	87,276.221 ppb	93.817 %
Concentration per Run 1	89.498 %	94.173 %	0.566 ppb	203.666 ppb	18,246.567 ppb	6,169.981 ppb	898.360 ppb	84,406.091 ppb	93.789 %
Concentration per Run 2	88.432 %	81.485 %	0.498 ppb	241.794 ppb	20,524.318 ppb	6,789.982 ppb	1,002.511 ppb	90,382.227 ppb	93.355 %
Concentration per Run 3	88.454 %	92.199 %	0.539 ppb	213.212 ppb	18,118.150 ppb	6,334.244 ppb	934.697 ppb	87,040.344 ppb	94.308 %
Concentration RSD	0.7 %	7.6 %	6.5 %	9.0 %	7.1 %	5.0 %	5.6 %	3.4 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	24.995 ppb	23.485 ppb	628.573 ppb	30,547.451 ppb	9.405 ppb	41.258 ppb	639.409 ppb	502.206 ppb	88.908 %
Concentration per Run 1	23.963 ppb	22.577 ppb	611.139 ppb	30,027.688 ppb	9.418 ppb	40.606 ppb	631.597 ppb	493.017 ppb	87.626 %
Concentration per Run 2	26.537 ppb	24.606 ppb	646.929 ppb	31,381.859 ppb	9.609 ppb	42.528 ppb	649.848 ppb	514.989 ppb	88.900 %
Concentration per Run 3	24.484 ppb	23.273 ppb	627.650 ppb	30,232.804 ppb	9.189 ppb	40.639 ppb	636.782 ppb	498.612 ppb	90.199 %
Concentration RSD	5.4 %	4.4 %	2.8 %	2.4 %	2.2 %	2.7 %	1.5 %	2.3 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.890 ppb	7.661 ppb	81.177 ppb	4.195 ppb	83.607 %	0.460 ppb	3.156 ppb	85.409 %	5.816 ppb
Concentration per Run 1	13.750 ppb	7.668 ppb	81.226 ppb	4.022 ppb	81.377 %	0.468 ppb	3.243 ppb	81.769 %	5.765 ppb
Concentration per Run 2	14.088 ppb	7.287 ppb	82.055 ppb	4.366 ppb	83.225 %	0.454 ppb	3.079 ppb	85.983 %	5.900 ppb
Concentration per Run 3	13.834 ppb	8.029 ppb	80.251 ppb	4.196 ppb	86.218 %	0.458 ppb	3.147 ppb	88.474 %	5.783 ppb
Concentration RSD	1.3 %	4.8 %	1.1 %	4.1 %	2.9 %	1.6 %	2.6 %	4.0 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	311.032 ppb	83.727 %	82.728 %	0.429 ppb	848.565 ppb	85.438 %
Concentration per Run 1	316.289 ppb	80.573 %	80.644 %	0.436 ppb	853.889 ppb	83.493 %
Concentration per Run 2	311.103 ppb	85.060 %	83.437 %	0.461 ppb	842.058 ppb	85.350 %
Concentration per Run 3	305.703 ppb	85.547 %	84.104 %	0.390 ppb	849.747 ppb	87.472 %
Concentration RSD	1.7 %	3.3 %	2.2 %	8.4 %	0.7 %	2.3 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 39 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: CCV Rack: 0
 Analysis started at: 8/13/2023 11:29:52 AM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.073 %	94.173 %	59.093 ppb	5,734.576 ppb	5,706.681 ppb	54.200 ppb	5,700.440 ppb	5,773.610 ppb	92.924 %
Concentration per Run 1	87.897 %	89.098 %	59.282 ppb	6,036.317 ppb	6,083.317 ppb	57.349 ppb	6,027.635 ppb	6,130.171 ppb	92.395 %
Concentration per Run 2	87.856 %	95.019 %	59.758 ppb	5,676.554 ppb	5,629.696 ppb	54.252 ppb	5,616.565 ppb	5,629.813 ppb	92.581 %
Concentration per Run 3	88.465 %	98.402 %	58.239 ppb	5,490.857 ppb	5,407.029 ppb	50.999 ppb	5,457.121 ppb	5,560.846 ppb	93.796 %
Recovery Percentage 1			98.488 %	95.576 %	95.111 %	90.333 %	95.007 %	96.227 %	
Concentration RSD	0.4 %	5.0 %	1.3 %	4.8 %	6.0 %	5.9 %	5.2 %	5.4 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	56.514 ppb	56.631 ppb	55.574 ppb	5,615.875 ppb	57.867 ppb	58.407 ppb	58.186 ppb	58.640 ppb	94.112 %
Concentration per Run 1	58.597 ppb	58.521 ppb	56.489 ppb	5,800.040 ppb	60.585 ppb	60.778 ppb	60.335 ppb	60.401 ppb	90.354 %
Concentration per Run 2	55.830 ppb	55.559 ppb	54.504 ppb	5,573.889 ppb	56.069 ppb	57.462 ppb	57.838 ppb	57.791 ppb	97.447 %
Concentration per Run 3	55.116 ppb	55.814 ppb	55.729 ppb	5,473.696 ppb	56.946 ppb	56.981 ppb	56.384 ppb	57.728 ppb	94.536 %
Recovery Percentage 1	94.190 %	94.385 %	92.624 %	93.598 %	96.444 %	97.345 %	96.977 %	97.733 %	
Concentration RSD	3.3 %	2.9 %	1.8 %	3.0 %	4.1 %	3.5 %	3.4 %	2.6 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	57.639 ppb	57.514 ppb	48.752 ppb	54.141 ppb	90.421 %	57.087 ppb	57.729 ppb	87.968 %	56.730 ppb
Concentration per Run 1	58.835 ppb	59.002 ppb	50.181 ppb	53.401 ppb	89.117 %	58.217 ppb	58.576 ppb	85.717 %	57.237 ppb
Concentration per Run 2	56.405 ppb	54.979 ppb	47.150 ppb	53.085 ppb	91.879 %	56.239 ppb	57.416 ppb	88.850 %	56.383 ppb
Concentration per Run 3	57.676 ppb	58.560 ppb	48.924 ppb	55.936 ppb	90.266 %	56.806 ppb	57.196 ppb	89.338 %	56.570 ppb
Recovery Percentage 1	96.064 %	95.856 %	81.253 %	90.235 %		95.145 %	96.215 %		94.550 %
Concentration RSD	2.1 %	3.8 %	3.1 %	2.9 %	1.5 %	1.8 %	1.3 %	2.2 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	55.004 ppb	91.211 %	91.807 %	55.218 ppb	55.650 ppb	89.625 %
Concentration per Run 1	56.560 ppb	87.885 %	89.075 %	55.147 ppb	56.393 ppb	88.104 %
Concentration per Run 2	54.295 ppb	91.838 %	92.481 %	55.383 ppb	55.529 ppb	89.847 %
Concentration per Run 3	54.156 ppb	93.909 %	93.865 %	55.125 ppb	55.027 ppb	90.924 %
Recovery Percentage 1	91.673 %			92.030 %	92.749 %	
Concentration RSD	2.5 %	3.4 %	2.7 %	0.3 %	1.2 %	1.6 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 40 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/13/2023 11:34:24 AM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.318 %	98.496 %	0.011 ppb	-3.201 ppb	-2.361 ppb	-1.744 ppb	-9.125 ppb	-6.893 ppb	93.655 %
Concentration per Run 1	92.167 %	94.173 %	0.009 ppb	-2.023 ppb	-2.072 ppb	-1.871 ppb	-8.555 ppb	-3.327 ppb	92.456 %
Concentration per Run 2	92.417 %	104.887 %	0.015 ppb	-3.305 ppb	-1.847 ppb	-1.728 ppb	-10.041 ppb	-11.507 ppb	95.173 %
Concentration per Run 3	92.369 %	96.429 %	0.011 ppb	-4.274 ppb	-3.164 ppb	-1.632 ppb	-8.780 ppb	-5.844 ppb	93.337 %
Recovery Percentage 1			2.253 %	-3.201 %	-3.373 %	-17.440 %	-9.125 %	-6.893 %	
Concentration RSD	0.1 %	5.7 %	27.6 %	35.3 %	29.9 %	6.9 %	8.8 %	60.8 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.003 ppb	-0.027 ppb	-0.302 ppb	3.448 ppb	-0.007 ppb	-0.081 ppb	-0.043 ppb	-1.000 ppb	96.076 %
Concentration per Run 1	-0.028 ppb	-0.014 ppb	-0.303 ppb	4.929 ppb	-0.007 ppb	-0.079 ppb	-0.040 ppb	-1.036 ppb	95.104 %
Concentration per Run 2	0.041 ppb	-0.035 ppb	-0.307 ppb	3.891 ppb	-0.005 ppb	-0.074 ppb	-0.031 ppb	-0.965 ppb	95.955 %
Concentration per Run 3	-0.022 ppb	-0.033 ppb	-0.295 ppb	1.525 ppb	-0.009 ppb	-0.090 ppb	-0.058 ppb	-0.999 ppb	97.169 %
Recovery Percentage 1	-0.059 %	-2.738 %	-30.185 %	6.896 %	-1.418 %	-4.048 %	-4.311 %	-19.998 %	
Concentration RSD	1,308.4 %	42.0 %	2.2 %	50.6 %	31.5 %	10.1 %	32.8 %	3.5 %	1.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.257 ppb	1.966 ppb	-0.012 ppb	1.081 ppb	94.360 %	0.004 ppb	0.003 ppb	92.108 %	0.145 ppb
Concentration per Run 1	0.200 ppb	1.744 ppb	-0.014 ppb	0.873 ppb	91.159 %	0.005 ppb	0.008 ppb	90.874 %	0.135 ppb
Concentration per Run 2	0.256 ppb	2.091 ppb	-0.017 ppb	1.135 ppb	95.425 %	0.005 ppb	0.000 ppb	92.909 %	0.147 ppb
Concentration per Run 3	0.315 ppb	2.065 ppb	-0.003 ppb	1.235 ppb	96.497 %	0.003 ppb	0.000 ppb	92.540 %	0.153 ppb
Recovery Percentage 1	51.422 %	39.327 %	-0.115 %	54.046 %		1.060 %	1.337 %		3.625 %
Concentration RSD	22.2 %	9.8 %	61.3 %	17.3 %	3.0 %	21.4 %	177.6 %	1.2 %	6.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.004 ppb	91.536 %	92.012 %	0.317 ppb	0.003 ppb	93.364 %
Concentration per Run 1	-0.018 ppb	88.816 %	89.672 %	0.323 ppb	0.002 ppb	91.990 %
Concentration per Run 2	0.007 ppb	92.368 %	92.911 %	0.348 ppb	0.002 ppb	94.491 %
Concentration per Run 3	-0.001 ppb	93.422 %	93.453 %	0.281 ppb	0.004 ppb	93.611 %
Recovery Percentage 1	-0.787 %			31.748 %	0.258 %	
Concentration RSD	318.6 %	2.6 %	2.2 %	10.6 %	39.2 %	1.4 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 41 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809786-7D10 6020TL Rack: 1
 Analysis started at: 8/13/2023 11:45:39 AM Vial: 22

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.586 %	97.556 %	5.160 ppb	10,965.897 ppb	2,440.065 ppb	257.159 ppb	2,809.012 ppb	6,588.349 ppb	92.163 %
Concentration per Run 1	90.503 %	93.045 %	5.121 ppb	11,213.126 ppb	2,502.693 ppb	266.511 ppb	2,929.005 ppb	6,894.290 ppb	92.436 %
Concentration per Run 2	90.725 %	99.248 %	5.236 ppb	10,930.830 ppb	2,433.843 ppb	260.856 ppb	2,696.666 ppb	6,303.918 ppb	91.577 %
Concentration per Run 3	90.531 %	100.376 %	5.123 ppb	10,753.734 ppb	2,383.658 ppb	244.109 ppb	2,801.364 ppb	6,566.838 ppb	92.477 %
Concentration RSD	0.1 %	4.0 %	1.3 %	2.1 %	2.4 %	4.5 %	4.1 %	4.5 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	46.201 ppb	19.022 ppb	60.570 ppb	224.584 ppb	47.591 ppb	47.501 ppb	25.012 ppb	47.962 ppb	93.124 %
Concentration per Run 1	48.059 ppb	19.774 ppb	62.344 ppb	233.766 ppb	48.488 ppb	49.062 ppb	26.291 ppb	48.880 ppb	87.967 %
Concentration per Run 2	44.604 ppb	18.430 ppb	58.400 ppb	218.290 ppb	46.558 ppb	46.684 ppb	24.659 ppb	47.495 ppb	94.895 %
Concentration per Run 3	45.941 ppb	18.862 ppb	60.967 ppb	221.697 ppb	47.726 ppb	46.757 ppb	24.084 ppb	47.512 ppb	96.510 %
Concentration RSD	3.8 %	3.6 %	3.3 %	3.6 %	2.0 %	2.8 %	4.6 %	1.7 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.228 ppb	11.171 ppb	121.761 ppb	95.133 ppb	88.634 %	4.715 ppb	5.202 ppb	87.638 %	40.306 ppb
Concentration per Run 1	12.531 ppb	11.687 ppb	125.121 ppb	95.714 ppb	85.045 %	4.862 ppb	5.306 ppb	83.651 %	40.688 ppb
Concentration per Run 2	12.089 ppb	10.963 ppb	118.616 ppb	92.812 ppb	89.485 %	4.646 ppb	5.154 ppb	87.997 %	40.329 ppb
Concentration per Run 3	12.063 ppb	10.863 ppb	121.547 ppb	96.873 ppb	91.372 %	4.637 ppb	5.145 ppb	91.267 %	39.903 ppb
Concentration RSD	2.1 %	4.0 %	2.7 %	2.2 %	3.7 %	2.7 %	1.7 %	4.4 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	194.146 ppb	89.080 %	88.745 %	11.418 ppb	51.016 ppb	87.747 %
Concentration per Run 1	195.787 ppb	84.083 %	84.502 %	11.672 ppb	52.074 ppb	83.721 %
Concentration per Run 2	194.414 ppb	90.442 %	88.781 %	11.340 ppb	50.781 ppb	88.180 %
Concentration per Run 3	192.236 ppb	92.714 %	92.951 %	11.243 ppb	50.194 ppb	91.338 %
Concentration RSD	0.9 %	5.0 %	4.8 %	2.0 %	1.9 %	4.4 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 42 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809786-8D10 6020TL Rack: 1
 Analysis started at: 8/13/2023 11:50:08 AM Vial: 23

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.490 %	94.643 %	5.031 ppb	11,507.354 ppb	2,581.784 ppb	269.376 ppb	2,926.496 ppb	6,865.014 ppb	95.717 %
Concentration per Run 1	93.547 %	90.225 %	5.062 ppb	11,968.632 ppb	2,708.707 ppb	280.607 ppb	2,988.801 ppb	7,274.426 ppb	95.992 %
Concentration per Run 2	93.035 %	98.120 %	4.984 ppb	11,250.782 ppb	2,489.072 ppb	254.417 ppb	2,871.596 ppb	6,636.846 ppb	95.476 %
Concentration per Run 3	93.888 %	95.583 %	5.046 ppb	11,302.647 ppb	2,547.572 ppb	273.102 ppb	2,919.092 ppb	6,683.771 ppb	95.683 %
Concentration RSD	0.5 %	4.3 %	0.8 %	3.5 %	4.4 %	5.0 %	2.0 %	5.2 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	46.993 ppb	19.646 ppb	62.553 ppb	229.912 ppb	47.391 ppb	48.190 ppb	25.035 ppb	48.216 ppb	97.316 %
Concentration per Run 1	49.624 ppb	20.454 ppb	65.743 ppb	251.053 ppb	48.776 ppb	49.287 ppb	25.645 ppb	49.064 ppb	94.129 %
Concentration per Run 2	46.515 ppb	19.094 ppb	60.895 ppb	224.631 ppb	45.881 ppb	47.475 ppb	24.626 ppb	47.846 ppb	98.764 %
Concentration per Run 3	44.840 ppb	19.391 ppb	61.020 ppb	214.052 ppb	47.517 ppb	47.809 ppb	24.835 ppb	47.737 ppb	99.055 %
Concentration RSD	5.2 %	3.6 %	4.4 %	8.3 %	3.1 %	2.0 %	2.1 %	1.5 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.988 ppb	12.112 ppb	121.866 ppb	99.871 ppb	91.830 %	4.728 ppb	5.246 ppb	91.842 %	41.383 ppb
Concentration per Run 1	12.157 ppb	11.690 ppb	125.198 ppb	99.011 ppb	90.196 %	4.840 ppb	5.315 ppb	91.344 %	41.579 ppb
Concentration per Run 2	11.876 ppb	11.846 ppb	119.855 ppb	98.675 ppb	92.493 %	4.682 ppb	5.280 ppb	90.228 %	41.858 ppb
Concentration per Run 3	11.930 ppb	12.800 ppb	120.545 ppb	101.927 ppb	92.801 %	4.662 ppb	5.143 ppb	93.953 %	40.711 ppb
Concentration RSD	1.2 %	5.0 %	2.4 %	1.8 %	1.6 %	2.1 %	1.7 %	2.1 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	195.637 ppb	93.773 %	94.452 %	11.666 ppb	51.699 ppb	91.529 %
Concentration per Run 1	199.212 ppb	90.756 %	91.725 %	11.655 ppb	52.132 ppb	90.720 %
Concentration per Run 2	197.184 ppb	95.106 %	95.989 %	11.643 ppb	51.246 ppb	92.354 %
Concentration per Run 3	190.517 ppb	95.458 %	95.642 %	11.700 ppb	51.718 ppb	91.512 %
Concentration RSD	2.3 %	2.8 %	2.5 %	0.3 %	0.9 %	0.9 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 43 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809786-9D10 6020TL Rack: 1
 Analysis started at: 8/13/2023 11:54:38 AM Vial: 24

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.679 %	96.429 %	48.651 ppb	14,729.616 ppb	6,286.881 ppb	112.595 ppb	6,728.403 ppb	10,426.604 ppb	98.458 %
Concentration per Run 1	92.173 %	104.605 %	49.292 ppb	13,972.533 ppb	5,965.764 ppb	102.612 ppb	6,315.482 ppb	9,853.189 ppb	98.225 %
Concentration per Run 2	93.463 %	97.838 %	48.147 ppb	14,643.433 ppb	6,243.976 ppb	110.330 ppb	6,663.679 ppb	10,362.654 ppb	99.760 %
Concentration per Run 3	92.400 %	86.842 %	48.513 ppb	15,572.884 ppb	6,650.904 ppb	124.844 ppb	7,206.049 ppb	11,063.971 ppb	97.388 %
Concentration RSD	0.7 %	9.3 %	1.2 %	5.5 %	5.5 %	10.0 %	6.7 %	5.8 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.042 ppb	47.222 ppb	61.483 ppb	4,868.607 ppb	46.990 ppb	48.354 ppb	48.170 ppb	49.035 ppb	93.841 %
Concentration per Run 1	47.227 ppb	46.535 ppb	60.444 ppb	4,774.602 ppb	47.270 ppb	47.636 ppb	48.649 ppb	49.391 ppb	92.640 %
Concentration per Run 2	47.715 ppb	47.243 ppb	62.100 ppb	4,876.013 ppb	46.113 ppb	49.870 ppb	47.618 ppb	48.936 ppb	93.531 %
Concentration per Run 3	49.184 ppb	47.889 ppb	61.905 ppb	4,955.205 ppb	47.587 ppb	47.554 ppb	48.244 ppb	48.777 ppb	95.352 %
Concentration RSD	2.1 %	1.4 %	1.5 %	1.9 %	1.7 %	2.7 %	1.1 %	0.7 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	47.390 ppb	46.987 ppb	76.984 ppb	55.064 ppb	90.440 %	1.560 ppb	47.597 ppb	90.554 %	49.079 ppb
Concentration per Run 1	47.300 ppb	47.356 ppb	77.537 ppb	54.142 ppb	88.731 %	1.585 ppb	48.047 ppb	89.183 %	48.899 ppb
Concentration per Run 2	47.243 ppb	46.736 ppb	77.392 ppb	54.673 ppb	91.516 %	1.513 ppb	47.230 ppb	91.992 %	48.815 ppb
Concentration per Run 3	47.628 ppb	46.868 ppb	76.024 ppb	56.376 ppb	91.071 %	1.582 ppb	47.515 ppb	90.488 %	49.523 ppb
Concentration RSD	0.4 %	0.7 %	1.1 %	2.1 %	1.7 %	2.6 %	0.9 %	1.6 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	54.874 ppb	93.524 %	93.509 %	46.877 ppb	48.094 ppb	90.397 %
Concentration per Run 1	55.610 ppb	91.554 %	92.257 %	46.450 ppb	48.347 ppb	89.613 %
Concentration per Run 2	54.409 ppb	94.214 %	93.969 %	46.978 ppb	47.949 ppb	90.371 %
Concentration per Run 3	54.604 ppb	94.802 %	94.301 %	47.205 ppb	47.986 ppb	91.209 %
Concentration RSD	1.2 %	1.9 %	1.2 %	0.8 %	0.5 %	0.9 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 44 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1809786-10D5 6020TL Rack: 1
 Analysis started at: 8/13/2023 11:59:08 AM Vial: 25

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.675 %	93.703 %	0.008 ppb	21,194.265 ppb	3,115.891 ppb	141.880 ppb	3,961.482 ppb	11,921.077 ppb	94.884 %
Concentration per Run 1	91.756 %	85.714 %	0.003 ppb	22,759.086 ppb	3,311.047 ppb	147.224 ppb	4,089.012 ppb	12,410.656 ppb	95.011 %
Concentration per Run 2	91.505 %	98.966 %	0.014 ppb	20,224.456 ppb	2,966.955 ppb	139.771 ppb	3,751.364 ppb	11,311.939 ppb	94.850 %
Concentration per Run 3	91.764 %	96.429 %	0.005 ppb	20,599.254 ppb	3,069.671 ppb	138.647 ppb	4,044.071 ppb	12,040.636 ppb	94.790 %
Concentration RSD	0.2 %	7.5 %	73.1 %	6.5 %	5.7 %	3.3 %	4.6 %	4.7 %	0.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.372 ppb	1.210 ppb	29.090 ppb	273.326 ppb	0.134 ppb	0.789 ppb	0.320 ppb	0.253 ppb	93.191 %
Concentration per Run 1	0.436 ppb	1.289 ppb	29.740 ppb	267.380 ppb	0.134 ppb	0.903 ppb	0.340 ppb	0.165 ppb	92.584 %
Concentration per Run 2	0.356 ppb	1.181 ppb	27.942 ppb	260.725 ppb	0.151 ppb	0.697 ppb	0.298 ppb	0.340 ppb	93.892 %
Concentration per Run 3	0.324 ppb	1.159 ppb	29.589 ppb	291.874 ppb	0.115 ppb	0.768 ppb	0.320 ppb	0.253 ppb	93.097 %
Concentration RSD	15.4 %	5.8 %	3.4 %	6.0 %	13.3 %	13.3 %	6.6 %	34.5 %	0.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.270 ppb	1.679 ppb	60.588 ppb	13.437 ppb	89.541 %	0.006 ppb	0.006 ppb	90.288 %	0.769 ppb
Concentration per Run 1	0.257 ppb	1.557 ppb	60.717 ppb	13.640 ppb	88.608 %	0.014 ppb	0.012 ppb	90.050 %	0.746 ppb
Concentration per Run 2	0.228 ppb	1.701 ppb	60.825 ppb	13.368 ppb	89.220 %	0.005 ppb	0.006 ppb	90.677 %	0.759 ppb
Concentration per Run 3	0.325 ppb	1.778 ppb	60.222 ppb	13.302 ppb	90.796 %	-0.001 ppb	0.000 ppb	90.137 %	0.802 ppb
Concentration RSD	18.4 %	6.7 %	0.5 %	1.3 %	1.3 %	125.5 %	95.7 %	0.4 %	3.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	17.179 ppb	93.401 %	93.004 %	0.318 ppb	0.185 ppb	89.459 %
Concentration per Run 1	17.085 ppb	91.074 %	91.047 %	0.332 ppb	0.204 ppb	88.071 %
Concentration per Run 2	16.766 ppb	94.350 %	93.133 %	0.349 ppb	0.197 ppb	90.468 %
Concentration per Run 3	17.687 ppb	94.778 %	94.833 %	0.272 ppb	0.154 ppb	89.838 %
Concentration RSD	2.7 %	2.2 %	2.0 %	12.7 %	14.6 %	1.4 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 45 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343197-01 6020TL Rack: 1
 Analysis started at: 8/13/2023 12:03:35 PM Vial: 21

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.649 %	89.098 %	0.016 ppb	108,430.816 ppb	15,230.699 ppb	668.509 ppb	19,906.296 ppb	58,942.556 ppb	91.168 %
Concentration per Run 1	89.549 %	93.045 %	0.014 ppb	102,010.883 ppb	14,462.436 ppb	642.339 ppb	19,406.393 ppb	57,441.331 ppb	91.883 %
Concentration per Run 2	88.469 %	91.353 %	0.020 ppb	106,324.230 ppb	15,132.749 ppb	662.186 ppb	19,475.397 ppb	57,282.732 ppb	92.023 %
Concentration per Run 3	87.928 %	82.895 %	0.013 ppb	116,957.337 ppb	16,096.912 ppb	701.001 ppb	20,837.099 ppb	62,103.604 ppb	89.599 %
Concentration RSD	0.9 %	6.1 %	24.5 %	7.1 %	5.4 %	4.5 %	4.1 %	4.6 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.790 ppb	5.852 ppb	143.762 ppb	1,287.709 ppb	0.612 ppb	4.015 ppb	1.320 ppb	3.017 ppb	86.822 %
Concentration per Run 1	1.753 ppb	5.756 ppb	142.559 ppb	1,278.484 ppb	0.608 ppb	4.020 ppb	1.267 ppb	2.906 ppb	85.745 %
Concentration per Run 2	1.627 ppb	5.752 ppb	140.995 ppb	1,234.754 ppb	0.628 ppb	3.986 ppb	1.382 ppb	2.923 ppb	87.061 %
Concentration per Run 3	1.988 ppb	6.049 ppb	147.732 ppb	1,349.889 ppb	0.601 ppb	4.038 ppb	1.312 ppb	3.221 ppb	87.660 %
Concentration RSD	10.2 %	2.9 %	2.5 %	4.5 %	2.4 %	0.6 %	4.4 %	5.9 %	1.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.460 ppb	1.756 ppb	308.774 ppb	65.564 ppb	80.412 %	0.005 ppb	0.012 ppb	83.788 %	0.621 ppb
Concentration per Run 1	0.357 ppb	1.775 ppb	309.290 ppb	63.924 ppb	77.831 %	0.008 ppb	0.004 ppb	81.696 %	0.615 ppb
Concentration per Run 2	0.463 ppb	1.664 ppb	309.156 ppb	66.277 ppb	80.765 %	0.002 ppb	0.021 ppb	83.547 %	0.597 ppb
Concentration per Run 3	0.560 ppb	1.829 ppb	307.875 ppb	66.492 ppb	82.641 %	0.005 ppb	0.012 ppb	86.120 %	0.652 ppb
Concentration RSD	22.1 %	4.8 %	0.3 %	2.2 %	3.0 %	60.7 %	71.0 %	2.7 %	4.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	88.629 ppb	86.142 %	85.994 %	0.107 ppb	0.708 ppb	77.771 %
Concentration per Run 1	90.815 ppb	82.947 %	83.225 %	0.089 ppb	0.713 ppb	75.804 %
Concentration per Run 2	87.639 ppb	86.087 %	85.761 %	0.116 ppb	0.709 ppb	77.578 %
Concentration per Run 3	87.432 ppb	89.392 %	88.995 %	0.115 ppb	0.701 ppb	79.931 %
Concentration RSD	2.1 %	3.7 %	3.4 %	14.4 %	0.9 %	2.7 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 46 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: L2343197-03 6020TL Rack: 1
 Analysis started at: 8/13/2023 12:08:05 PM Vial: 26

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.279 %	96.335 %	0.015 ppb	101,657.980 ppb	14,501.713 ppb	479.171 ppb	19,251.480 ppb	57,219.095 ppb	87.913 %
Concentration per Run 1	87.177 %	91.635 %	0.020 ppb	104,808.336 ppb	14,692.177 ppb	496.785 ppb	19,415.889 ppb	56,607.459 ppb	87.331 %
Concentration per Run 2	86.754 %	97.838 %	0.013 ppb	99,614.187 ppb	14,546.742 ppb	471.007 ppb	19,471.533 ppb	58,048.803 ppb	88.680 %
Concentration per Run 3	84.907 %	99.530 %	0.012 ppb	100,551.416 ppb	14,266.218 ppb	469.720 ppb	18,867.019 ppb	57,001.024 ppb	87.729 %
Concentration RSD	1.4 %	4.3 %	26.3 %	2.7 %	1.5 %	3.2 %	1.7 %	1.3 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.512 ppb	4.463 ppb	141.990 ppb	1,102.517 ppb	0.486 ppb	3.032 ppb	1.023 ppb	2.110 ppb	84.866 %
Concentration per Run 1	1.587 ppb	4.206 ppb	136.875 ppb	1,091.911 ppb	0.463 ppb	3.047 ppb	0.888 ppb	1.901 ppb	85.674 %
Concentration per Run 2	1.474 ppb	4.657 ppb	146.452 ppb	1,095.012 ppb	0.484 ppb	2.966 ppb	1.098 ppb	2.326 ppb	83.917 %
Concentration per Run 3	1.475 ppb	4.526 ppb	142.643 ppb	1,120.628 ppb	0.512 ppb	3.081 ppb	1.082 ppb	2.103 ppb	85.005 %
Concentration RSD	4.3 %	5.2 %	3.4 %	1.4 %	5.0 %	1.9 %	11.5 %	10.1 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.343 ppb	1.565 ppb	314.940 ppb	68.363 ppb	79.360 %	0.002 ppb	0.019 ppb	81.720 %	0.513 ppb
Concentration per Run 1	0.265 ppb	1.426 ppb	311.855 ppb	66.143 ppb	77.504 %	0.002 ppb	0.024 ppb	80.326 %	0.552 ppb
Concentration per Run 2	0.404 ppb	1.840 ppb	316.932 ppb	68.391 ppb	80.211 %	0.004 ppb	0.015 ppb	81.530 %	0.511 ppb
Concentration per Run 3	0.360 ppb	1.427 ppb	316.035 ppb	70.556 ppb	80.364 %	-0.001 ppb	0.017 ppb	83.303 %	0.475 ppb
Concentration RSD	20.7 %	15.3 %	0.9 %	3.2 %	2.0 %	131.4 %	27.5 %	1.8 %	7.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	88.189 ppb	84.870 %	85.191 %	0.072 ppb	0.543 ppb	76.518 %
Concentration per Run 1	88.827 ppb	82.381 %	83.838 %	0.054 ppb	0.548 ppb	74.297 %
Concentration per Run 2	88.696 ppb	85.597 %	84.824 %	0.082 ppb	0.537 ppb	77.008 %
Concentration per Run 3	87.044 ppb	86.634 %	86.910 %	0.080 ppb	0.544 ppb	78.250 %
Concentration RSD	1.1 %	2.6 %	1.8 %	21.5 %	1.0 %	2.6 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 47 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: L2345481-02 6020SL Rack: 1
 Analysis started at: 8/13/2023 12:12:32 PM Vial: 27

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.080 %	94.361 %	0.004 ppb	18,738.972 ppb	37,680.415 ppb	23.850 ppb	1,938.035 ppb	123,843.948 ppb	90.946 %
Concentration per Run 1	86.325 %	96.429 %	0.000 ppb	18,340.274 ppb	37,203.345 ppb	23.833 ppb	1,922.961 ppb	123,818.210 ppb	91.073 %
Concentration per Run 2	85.911 %	95.301 %	0.003 ppb	18,303.231 ppb	37,038.557 ppb	22.184 ppb	1,941.052 ppb	122,740.088 ppb	91.733 %
Concentration per Run 3	86.004 %	91.353 %	0.008 ppb	19,573.411 ppb	38,799.343 ppb	25.532 ppb	1,950.091 ppb	124,973.545 ppb	90.034 %
Concentration RSD	0.3 %	2.8 %	108.9 %	3.9 %	2.6 %	7.0 %	0.7 %	0.9 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.406 ppb	0.424 ppb	104.762 ppb	40.433 ppb	0.334 ppb	1.682 ppb	0.629 ppb	0.222 ppb	87.434 %
Concentration per Run 1	1.291 ppb	0.375 ppb	103.812 ppb	42.923 ppb	0.333 ppb	1.591 ppb	0.597 ppb	0.268 ppb	85.304 %
Concentration per Run 2	1.401 ppb	0.504 ppb	103.811 ppb	39.386 ppb	0.330 ppb	1.816 ppb	0.645 ppb	0.227 ppb	88.203 %
Concentration per Run 3	1.527 ppb	0.392 ppb	106.663 ppb	38.991 ppb	0.337 ppb	1.640 ppb	0.645 ppb	0.171 ppb	88.794 %
Concentration RSD	8.4 %	16.6 %	1.6 %	5.4 %	1.0 %	7.0 %	4.5 %	22.0 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.571 ppb	1.585 ppb	305.206 ppb	62.823 ppb	81.176 %	0.000 ppb	0.025 ppb	84.144 %	0.399 ppb
Concentration per Run 1	0.430 ppb	1.599 ppb	307.971 ppb	61.206 ppb	79.353 %	0.001 ppb	0.037 ppb	81.708 %	0.338 ppb
Concentration per Run 2	0.562 ppb	1.989 ppb	304.904 ppb	63.758 ppb	81.941 %	0.000 ppb	0.010 ppb	84.085 %	0.464 ppb
Concentration per Run 3	0.721 ppb	1.166 ppb	302.743 ppb	63.503 ppb	82.236 %	-0.001 ppb	0.028 ppb	86.640 %	0.395 ppb
Concentration RSD	25.5 %	26.0 %	0.9 %	2.2 %	2.0 %	722.6 %	55.6 %	2.9 %	15.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	9.894 ppb	88.999 %	89.281 %	0.041 ppb	0.046 ppb	79.558 %
Concentration per Run 1	9.847 ppb	86.544 %	88.150 %	0.032 ppb	0.047 ppb	77.947 %
Concentration per Run 2	10.191 ppb	89.130 %	89.739 %	0.047 ppb	0.046 ppb	80.192 %
Concentration per Run 3	9.645 ppb	91.323 %	89.955 %	0.045 ppb	0.046 ppb	80.536 %
Concentration RSD	2.8 %	2.7 %	1.1 %	18.8 %	1.9 %	1.8 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 48 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/13/2023 12:23:28 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.251 %	96.429 %	58.677 ppb	5,441.009 ppb	5,533.487 ppb	52.507 ppb	5,448.949 ppb	5,562.736 ppb	94.538 %
Concentration per Run 1	90.589 %	94.173 %	58.279 ppb	5,410.527 ppb	5,585.209 ppb	53.964 ppb	5,472.891 ppb	5,728.796 ppb	93.413 %
Concentration per Run 2	89.476 %	98.966 %	58.762 ppb	5,388.403 ppb	5,412.712 ppb	55.039 ppb	5,434.024 ppb	5,444.075 ppb	95.192 %
Concentration per Run 3	90.687 %	96.147 %	58.990 ppb	5,524.097 ppb	5,602.539 ppb	48.518 ppb	5,439.930 ppb	5,515.336 ppb	95.010 %
Recovery Percentage 1			97.795 %	90.683 %	92.225 %	87.511 %	90.816 %	92.712 %	
Concentration RSD	0.7 %	2.5 %	0.6 %	1.3 %	1.9 %	6.7 %	0.4 %	2.7 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	53.824 ppb	54.918 ppb	54.043 ppb	5,506.472 ppb	56.037 ppb	55.814 ppb	57.065 ppb	57.141 ppb	92.851 %
Concentration per Run 1	53.565 ppb	56.235 ppb	54.566 ppb	5,565.216 ppb	56.641 ppb	57.276 ppb	58.314 ppb	58.144 ppb	88.840 %
Concentration per Run 2	53.560 ppb	53.628 ppb	52.146 ppb	5,452.951 ppb	55.515 ppb	54.464 ppb	56.712 ppb	55.762 ppb	94.714 %
Concentration per Run 3	54.348 ppb	54.891 ppb	55.418 ppb	5,501.247 ppb	55.955 ppb	55.703 ppb	56.169 ppb	57.519 ppb	94.998 %
Recovery Percentage 1	89.707 %	91.530 %	90.072 %	91.775 %	93.395 %	93.024 %	95.109 %	95.236 %	
Concentration RSD	0.8 %	2.4 %	3.1 %	1.0 %	1.0 %	2.5 %	2.0 %	2.2 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	55.948 ppb	54.567 ppb	47.927 ppb	54.956 ppb	88.566 %	56.763 ppb	57.167 ppb	86.882 %	56.222 ppb
Concentration per Run 1	56.986 ppb	52.951 ppb	48.213 ppb	54.842 ppb	85.030 %	57.111 ppb	58.273 ppb	82.461 %	57.659 ppb
Concentration per Run 2	55.287 ppb	54.518 ppb	47.800 ppb	54.992 ppb	88.736 %	56.557 ppb	56.753 ppb	87.322 %	55.798 ppb
Concentration per Run 3	55.572 ppb	56.233 ppb	47.770 ppb	55.033 ppb	91.933 %	56.621 ppb	56.475 ppb	90.863 %	55.210 ppb
Recovery Percentage 1	93.247 %	90.946 %	79.879 %	91.593 %		94.605 %	95.279 %		93.704 %
Concentration RSD	1.6 %	3.0 %	0.5 %	0.2 %	3.9 %	0.5 %	1.7 %	4.9 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	54.562 ppb	89.154 %	88.525 %	54.418 ppb	54.592 ppb	88.116 %
Concentration per Run 1	55.642 ppb	86.493 %	86.727 %	53.950 ppb	55.061 ppb	84.757 %
Concentration per Run 2	54.666 ppb	90.173 %	88.427 %	54.076 ppb	54.084 ppb	88.683 %
Concentration per Run 3	53.377 ppb	90.795 %	90.421 %	55.228 ppb	54.631 ppb	90.908 %
Recovery Percentage 1	90.936 %			90.697 %	90.987 %	
Concentration RSD	2.1 %	2.6 %	2.1 %	1.3 %	0.9 %	3.5 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 49 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/13/2023 12:28:00 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.939 %	100.470 %	0.006 ppb	-4.497 ppb	-2.355 ppb	-1.790 ppb	-10.376 ppb	-2.079 ppb	95.868 %
Concentration per Run 1	95.611 %	97.274 %	0.017 ppb	-3.931 ppb	-3.184 ppb	-1.698 ppb	-11.587 ppb	-4.987 ppb	95.046 %
Concentration per Run 2	94.695 %	103.759 %	-0.004 ppb	-6.266 ppb	-3.134 ppb	-1.961 ppb	-13.275 ppb	1.205 ppb	96.064 %
Concentration per Run 3	94.511 %	100.376 %	0.004 ppb	-3.294 ppb	-0.746 ppb	-1.712 ppb	-6.267 ppb	-2.454 ppb	96.496 %
Recovery Percentage 1			1.118 %	-4.497 %	-3.364 %	-17.904 %	-10.376 %	-2.079 %	
Concentration RSD	0.6 %	3.2 %	189.3 %	34.8 %	59.2 %	8.3 %	35.2 %	149.8 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.023 ppb	-0.031 ppb	-0.292 ppb	-0.136 ppb	-0.002 ppb	-0.054 ppb	-0.060 ppb	-0.943 ppb	96.762 %
Concentration per Run 1	-0.044 ppb	-0.037 ppb	-0.317 ppb	-2.038 ppb	0.009 ppb	-0.048 ppb	-0.070 ppb	-0.952 ppb	97.146 %
Concentration per Run 2	-0.016 ppb	-0.025 ppb	-0.285 ppb	0.821 ppb	-0.009 ppb	-0.031 ppb	-0.064 ppb	-0.954 ppb	95.924 %
Concentration per Run 3	-0.008 ppb	-0.031 ppb	-0.274 ppb	0.811 ppb	-0.005 ppb	-0.082 ppb	-0.048 ppb	-0.924 ppb	97.216 %
Recovery Percentage 1	-0.451 %	-3.081 %	-29.218 %	-0.271 %	-0.370 %	-2.688 %	-6.036 %	-18.866 %	
Concentration RSD	83.4 %	20.3 %	7.6 %	1,216.0 %	512.0 %	48.1 %	19.0 %	1.8 %	0.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.207 ppb	1.515 ppb	0.000 ppb	1.110 ppb	96.648 %	0.003 ppb	-0.003 ppb	95.639 %	0.170 ppb
Concentration per Run 1	0.052 ppb	1.572 ppb	0.000 ppb	0.803 ppb	95.701 %	0.008 ppb	-0.006 ppb	92.265 %	0.148 ppb
Concentration per Run 2	0.256 ppb	1.440 ppb	-0.003 ppb	1.334 ppb	96.767 %	0.001 ppb	-0.006 ppb	95.114 %	0.177 ppb
Concentration per Run 3	0.314 ppb	1.534 ppb	0.002 ppb	1.193 ppb	97.476 %	0.001 ppb	0.001 ppb	99.538 %	0.187 ppb
Recovery Percentage 1	41.490 %	30.302 %	-0.005 %	55.504 %		0.834 %	-1.743 %		4.262 %
Concentration RSD	66.5 %	4.5 %	472.7 %	24.8 %	0.9 %	109.6 %	118.0 %	3.8 %	11.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.017 ppb	95.070 %	95.188 %	0.311 ppb	-0.002 ppb	96.953 %
Concentration per Run 1	-0.023 ppb	92.916 %	94.039 %	0.328 ppb	0.001 ppb	95.979 %
Concentration per Run 2	-0.043 ppb	95.364 %	95.197 %	0.344 ppb	-0.001 ppb	96.569 %
Concentration per Run 3	0.016 ppb	96.930 %	96.327 %	0.263 ppb	-0.004 ppb	98.310 %
Recovery Percentage 1	-3.312 %			31.136 %	-0.165 %	
Concentration RSD	182.4 %	2.1 %	1.2 %	13.8 %	159.4 %	1.3 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 50 User name: ALPHALAB\la2-icpmsq2 Comment: CCV/MCCV
 Analysis label: CCV Rack: 0
 Analysis started at: 8/13/2023 12:33:40 PM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.599 %	100.752 %	56.173 ppb	5,091.702 ppb	5,144.122 ppb	54.423 ppb	5,146.037 ppb	5,229.540 ppb	97.185 %
Concentration per Run 1	94.850 %	100.094 %	55.257 ppb	5,099.282 ppb	5,231.185 ppb	55.185 ppb	5,298.183 ppb	5,218.851 ppb	97.117 %
Concentration per Run 2	93.906 %	104.041 %	56.354 ppb	4,910.429 ppb	4,953.368 ppb	53.785 ppb	4,980.407 ppb	5,035.418 ppb	97.620 %
Concentration per Run 3	92.042 %	98.120 %	56.906 ppb	5,265.394 ppb	5,247.812 ppb	54.299 ppb	5,159.520 ppb	5,434.351 ppb	96.818 %
Recovery Percentage 1			93.621 %	84.862 %	85.735 %	90.705 %	85.767 %	87.159 %	
Concentration RSD	1.5 %	3.0 %	1.5 %	3.5 %	3.2 %	1.3 %	3.1 %	3.8 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	51.283 ppb	51.980 ppb	51.182 ppb	5,142.894 ppb	52.670 ppb	52.339 ppb	54.658 ppb	54.376 ppb	96.326 %
Concentration per Run 1	51.276 ppb	52.956 ppb	49.770 ppb	5,145.815 ppb	53.358 ppb	53.632 ppb	55.304 ppb	55.095 ppb	92.918 %
Concentration per Run 2	50.544 ppb	50.769 ppb	51.713 ppb	5,144.659 ppb	51.494 ppb	51.295 ppb	53.676 ppb	53.620 ppb	97.895 %
Concentration per Run 3	52.028 ppb	52.215 ppb	52.061 ppb	5,138.209 ppb	53.158 ppb	52.091 ppb	54.995 ppb	54.413 ppb	98.164 %
Recovery Percentage 1	85.471 %	86.633 %	85.303 %	85.715 %	87.784 %	87.232 %	91.097 %	90.627 %	
Concentration RSD	1.4 %	2.1 %	2.4 %	0.1 %	1.9 %	2.3 %	1.6 %	1.4 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	54.155 ppb	54.443 ppb	47.507 ppb	53.189 ppb	90.148 %	55.291 ppb	55.110 ppb	89.585 %	54.774 ppb
Concentration per Run 1	54.539 ppb	53.413 ppb	47.995 ppb	52.327 ppb	88.179 %	55.139 ppb	54.828 ppb	87.735 %	55.172 ppb
Concentration per Run 2	53.696 ppb	51.794 ppb	47.439 ppb	52.593 ppb	90.583 %	54.970 ppb	54.935 ppb	90.206 %	54.810 ppb
Concentration per Run 3	54.230 ppb	58.122 ppb	47.087 ppb	54.646 ppb	91.681 %	55.765 ppb	55.569 ppb	90.815 %	54.339 ppb
Recovery Percentage 1	90.258 %	90.738 %	79.178 %	88.648 %		92.152 %	91.851 %		91.290 %
Concentration RSD	0.8 %	6.0 %	1.0 %	2.4 %	2.0 %	0.8 %	0.7 %	1.8 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	52.422 ppb	91.070 %	91.765 %	53.127 ppb	53.310 ppb	89.718 %
Concentration per Run 1	52.029 ppb	89.137 %	89.965 %	52.528 ppb	53.404 ppb	87.531 %
Concentration per Run 2	52.898 ppb	90.471 %	90.821 %	53.301 ppb	53.024 ppb	89.880 %
Concentration per Run 3	52.340 ppb	93.601 %	94.508 %	53.551 ppb	53.502 ppb	91.742 %
Recovery Percentage 1	87.371 %			88.544 %	88.850 %	
Concentration RSD	0.8 %	2.5 %	2.6 %	1.0 %	0.5 %	2.4 %

Alpha ICPMSQ2 Data

8/13/2023 1:15:12 PM



Analysis index: 51 User name ALPHALAB\la2-icpmsq2 Comment CCB
 Analysis label: CCB Rack 0
 Analysis started at: 8/13/2023 12:38:12 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.207 %	92.011 %	0.007 ppb	-3.563 ppb	-1.372 ppb	-1.971 ppb	-7.953 ppb	-2.815 ppb	94.769 %
Concentration per Run 1	94.574 %	85.714 %	0.003 ppb	-3.497 ppb	-1.949 ppb	-1.974 ppb	-8.904 ppb	2.559 ppb	93.305 %
Concentration per Run 2	93.729 %	94.455 %	0.012 ppb	-3.350 ppb	-0.656 ppb	-1.999 ppb	-6.039 ppb	-3.791 ppb	95.614 %
Concentration per Run 3	94.318 %	95.865 %	0.006 ppb	-3.842 ppb	-1.513 ppb	-1.939 ppb	-8.917 ppb	-7.213 ppb	95.390 %
Recovery Percentage 1			1.424 %	-3.563 %	-1.960 %	-19.708 %	-7.953 %	-2.815 %	
Concentration RSD	0.5 %	6.0 %	66.3 %	7.1 %	47.9 %	1.5 %	20.8 %	176.1 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.016 ppb	-0.013 ppb	-0.244 ppb	0.810 ppb	-0.005 ppb	-0.044 ppb	-0.045 ppb	-0.990 ppb	93.774 %
Concentration per Run 1	0.029 ppb	-0.009 ppb	-0.250 ppb	2.165 ppb	-0.009 ppb	-0.103 ppb	-0.044 ppb	-0.940 ppb	92.135 %
Concentration per Run 2	0.009 ppb	-0.032 ppb	-0.224 ppb	1.089 ppb	-0.009 ppb	-0.062 ppb	-0.058 ppb	-0.997 ppb	94.932 %
Concentration per Run 3	0.009 ppb	0.001 ppb	-0.258 ppb	-0.823 ppb	0.005 ppb	0.033 ppb	-0.034 ppb	-1.034 ppb	94.254 %
Recovery Percentage 1	0.315 %	-1.328 %	-24.393 %	1.621 %	-0.908 %	-2.190 %	-4.530 %	-19.807 %	
Concentration RSD	73.6 %	128.0 %	7.3 %	186.8 %	176.8 %	159.4 %	25.7 %	4.8 %	1.6 %

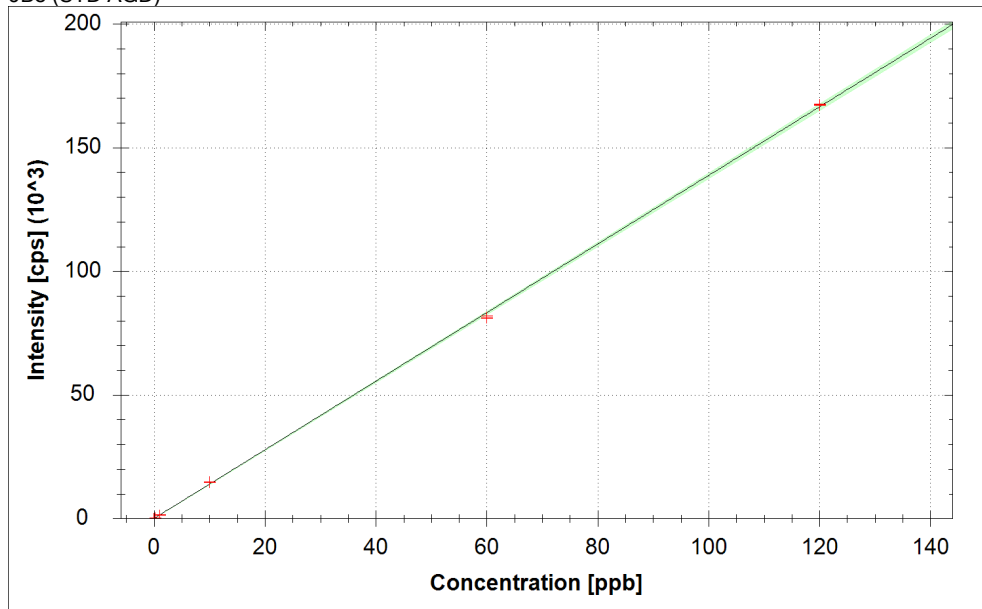
Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.256 ppb	1.602 ppb	-0.005 ppb	1.113 ppb	96.288 %	0.002 ppb	0.003 ppb	93.754 %	0.130 ppb
Concentration per Run 1	0.207 ppb	1.803 ppb	-0.005 ppb	0.997 ppb	95.710 %	0.000 ppb	0.006 ppb	93.904 %	0.124 ppb
Concentration per Run 2	0.240 ppb	1.514 ppb	0.010 ppb	1.173 ppb	95.846 %	0.002 ppb	-0.004 ppb	93.135 %	0.112 ppb
Concentration per Run 3	0.320 ppb	1.489 ppb	-0.020 ppb	1.168 ppb	97.308 %	0.004 ppb	0.007 ppb	94.224 %	0.153 ppb
Recovery Percentage 1	51.135 %	32.038 %	-0.049 %	55.630 %		0.546 %	1.503 %		3.238 %
Concentration RSD	22.7 %	10.9 %	312.2 %	9.0 %	0.9 %	93.8 %	201.9 %	0.6 %	16.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.046 ppb	94.195 %	93.987 %	0.335 ppb	-0.001 ppb	96.096 %
Concentration per Run 1	-0.062 ppb	92.126 %	92.967 %	0.314 ppb	-0.002 ppb	96.121 %
Concentration per Run 2	-0.026 ppb	95.208 %	94.240 %	0.402 ppb	-0.001 ppb	94.563 %
Concentration per Run 3	-0.049 ppb	95.251 %	94.754 %	0.289 ppb	-0.001 ppb	97.605 %
Recovery Percentage 1	-9.158 %			33.481 %	-0.118 %	
Concentration RSD	39.4 %	1.9 %	1.0 %	17.7 %	42.4 %	1.6 %



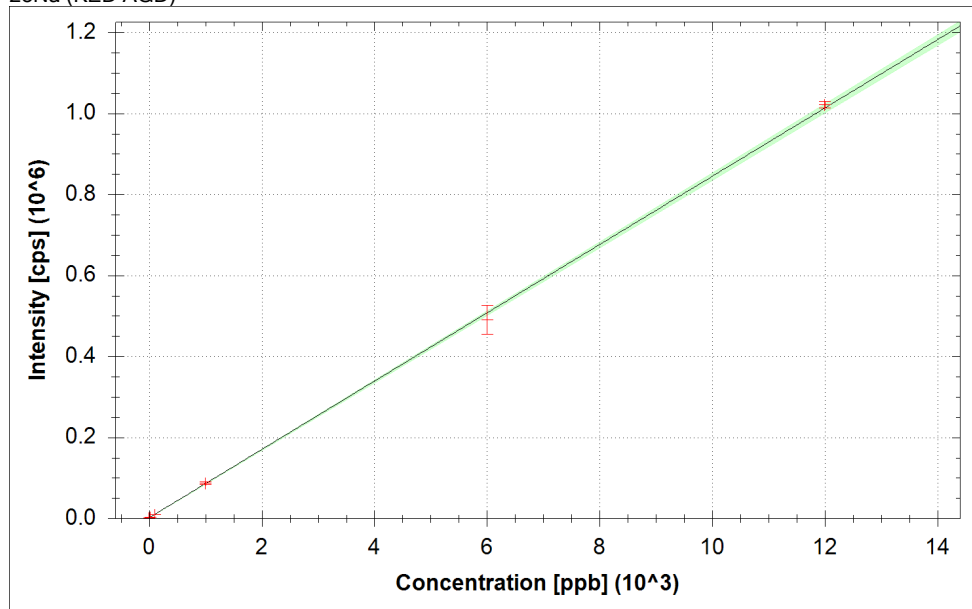
Calibration Curves:

9Be (STD AGD)



$f(x) = 1386.8201 \cdot x + 19.5717$
 $R^2 = 0.9998$
BEC = 0.014 ppb
LoD = 0.0143 ppb

23Na (KED AGD)



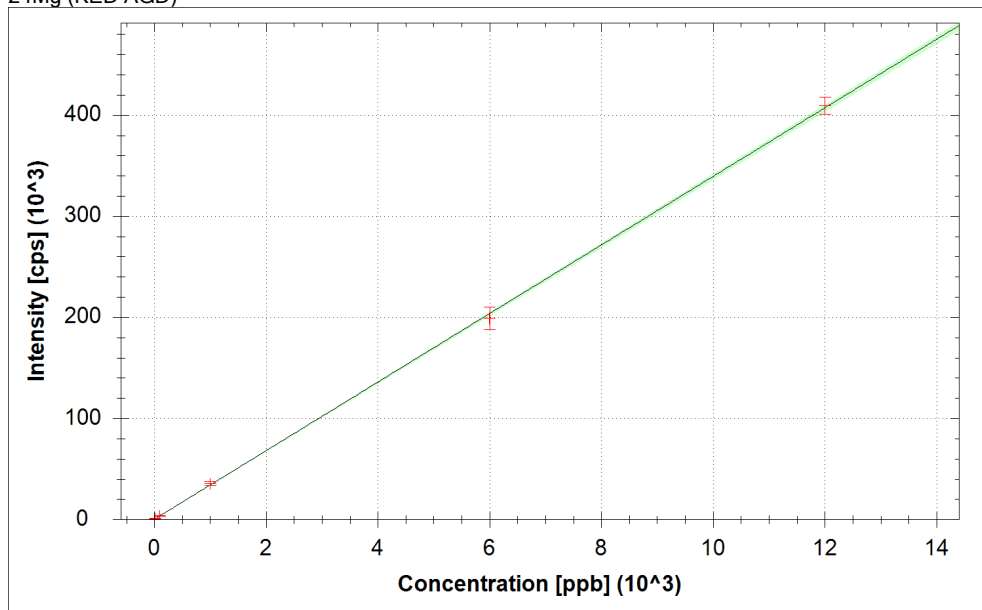
$f(x) = 84.2823 \cdot x + 1825.4523$
 $R^2 = 0.9996$
BEC = 21.659 ppb
LoD = 2.6869 ppb

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM

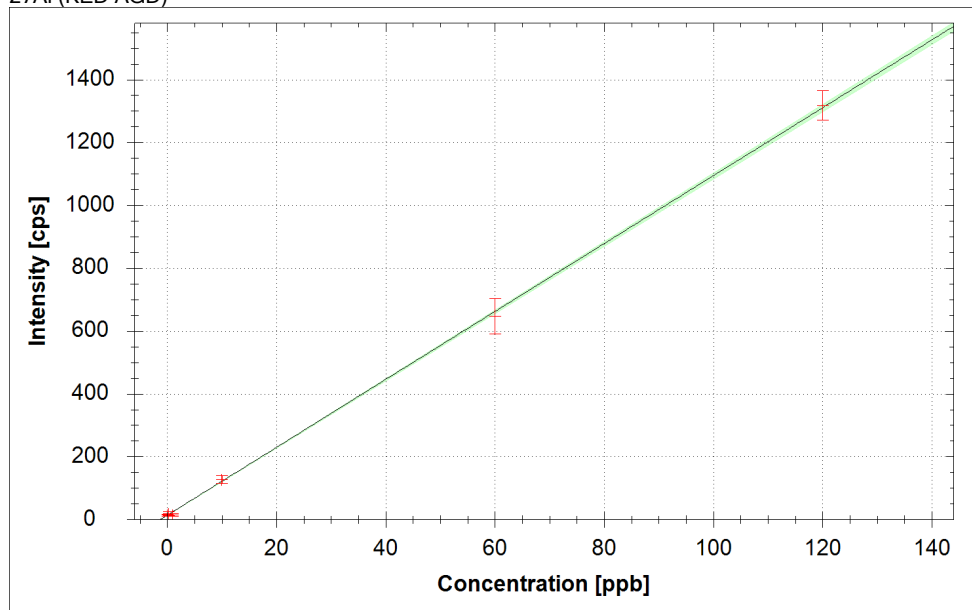


24Mg (KED AGD)



$f(x) = 33.9061 \cdot x + 205.2484$
 $R^2 = 0.9998$
BEC = 6.053 ppb
LoD = 7.4456 ppb

27Al (KED AGD)



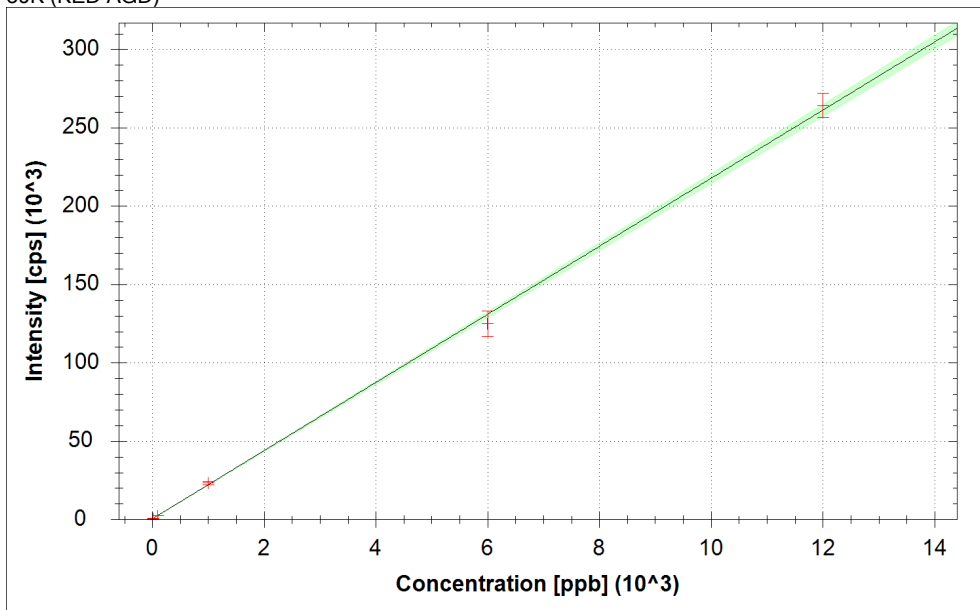
$f(x) = 10.8045 \cdot x + 13.3644$
 $R^2 = 0.9997$
BEC = 1.237 ppb
LoD = 0.7259 ppb

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM

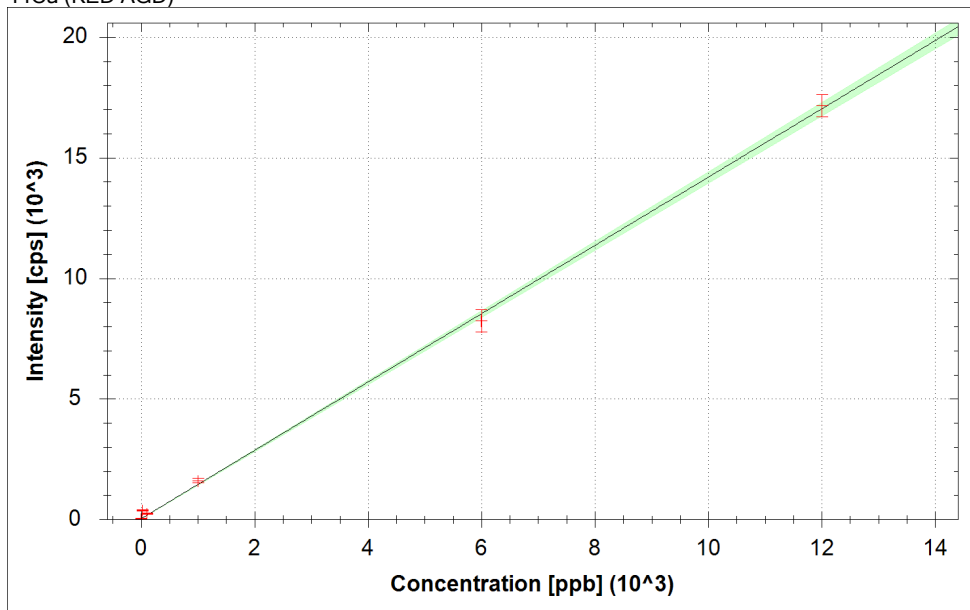


39K (KED AGD)



$f(x) = 21.7280 \cdot x + 421.6162$
 $R^2 = 0.9992$
BEC = 19.404 ppb
LoD = 9.3220 ppb

44Ca (KED AGD)



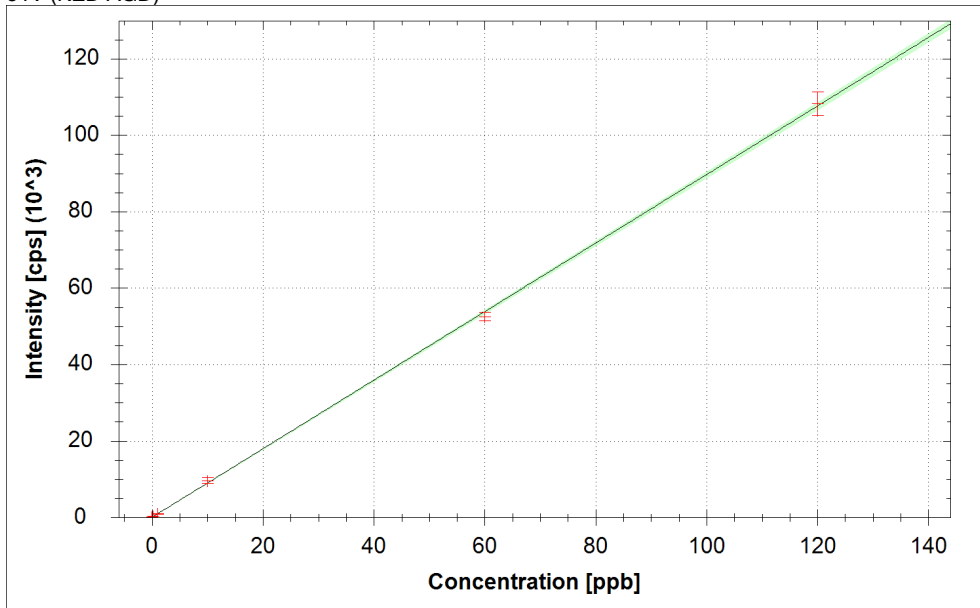
$f(x) = 1.4160 \cdot x + 32.0399$
 $R^2 = 0.9990$
BEC = 22.626 ppb
LoD = 11.6136 ppb

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM

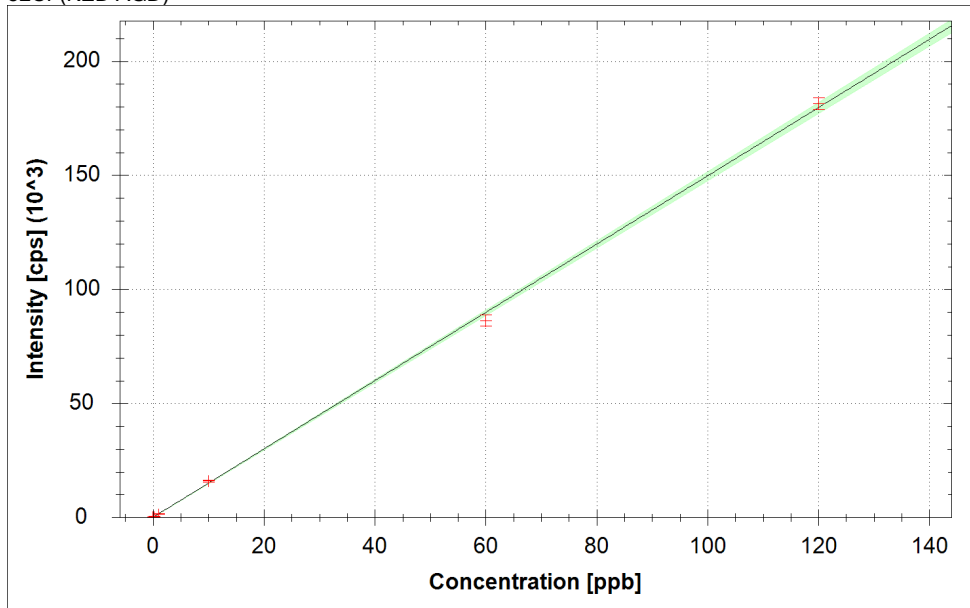


51V (KED AGD)



$f(x) = 896.1592 \cdot x + 53.4552$
 $R^2 = 0.9997$
BEC = 0.060 ppb
LoD = 0.1028 ppb

52Cr (KED AGD)



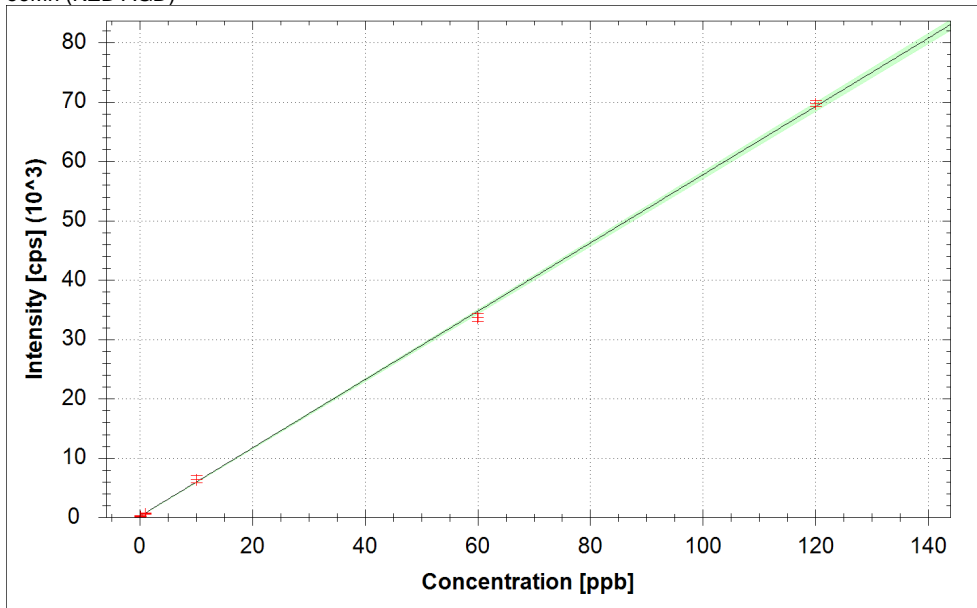
$f(x) = 1496.1565 \cdot x + 95.5166$
 $R^2 = 0.9994$
BEC = 0.064 ppb
LoD = 0.0334 ppb

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM

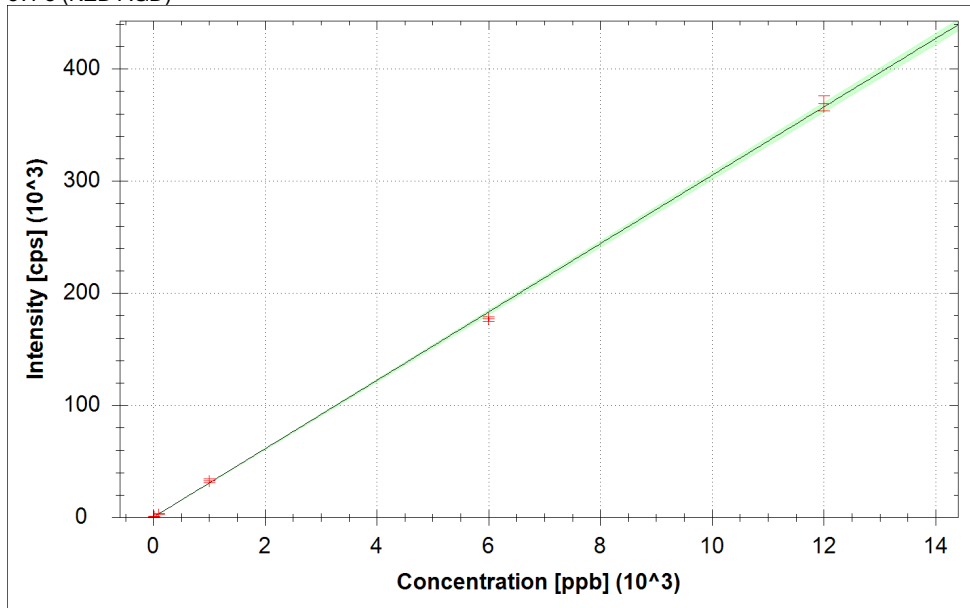


55Mn (KED AGD)



$f(x) = 575.1693 \cdot x + 202.9085$
 $R^2 = 0.9996$
BEC = 0.353 ppb
LoD = 0.3709 ppb

57Fe (KED AGD)



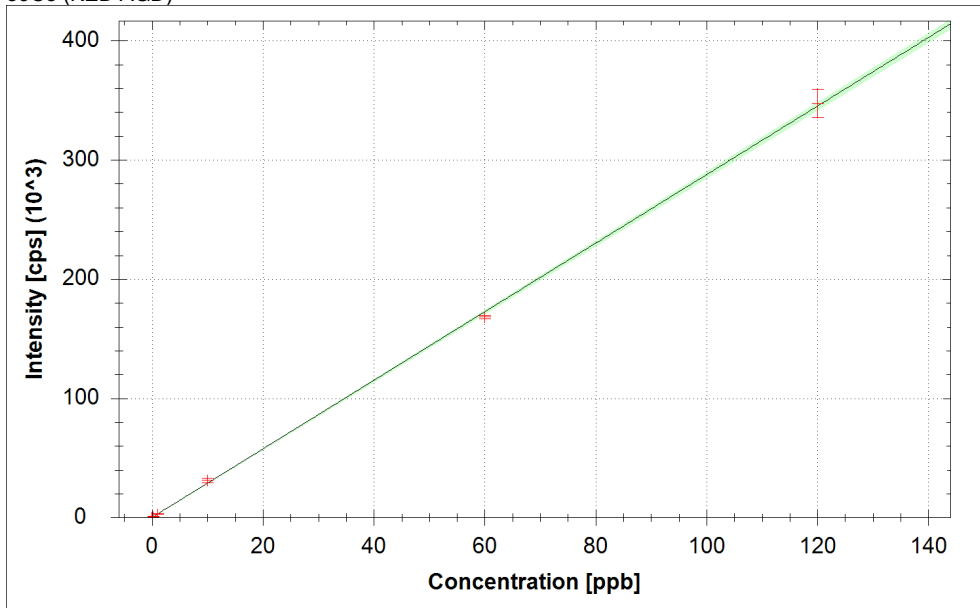
$f(x) = 30.4755 \cdot x + 239.8534$
 $R^2 = 0.9995$
BEC = 7.870 ppb
LoD = 3.1202 ppb

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM

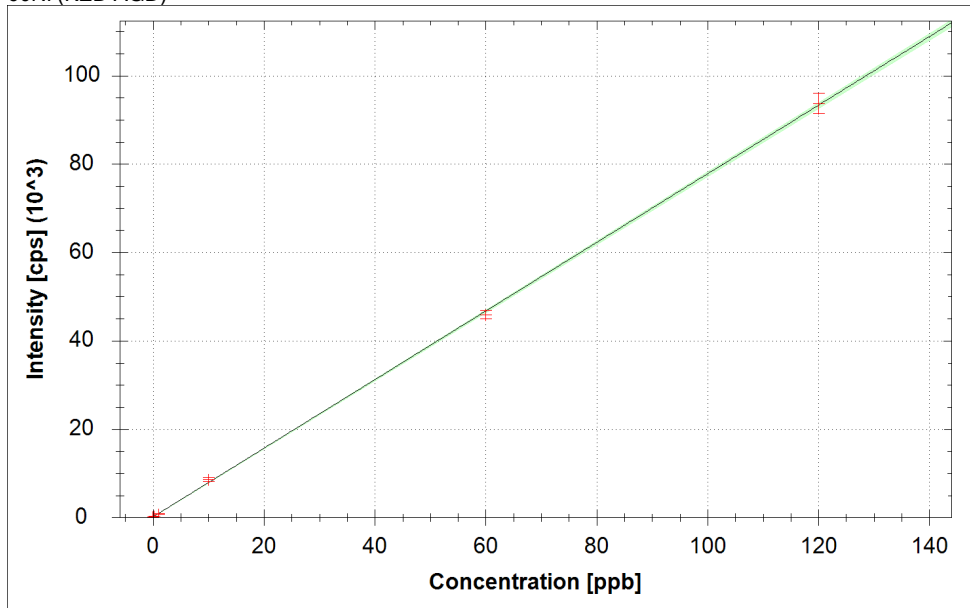


59Co (KED AGD)



$f(x) = 2876.1323 \cdot x + 26.5804$
 $R^2 = 0.9997$
BEC = 0.009 ppb
LoD = 0.0116 ppb

60Ni (KED AGD)



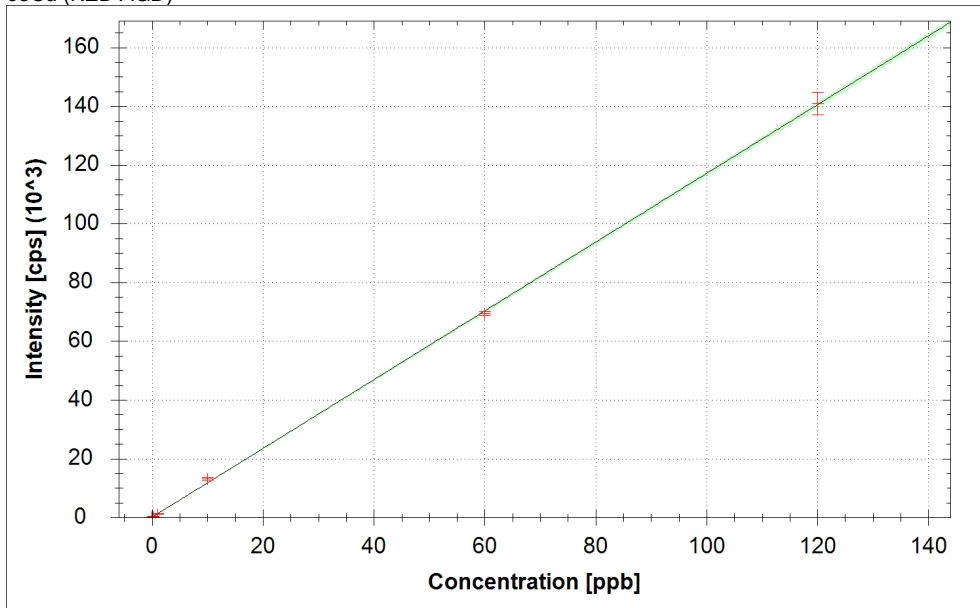
$f(x) = 776.4412 \cdot x + 144.4072$
 $R^2 = 0.9998$
BEC = 0.186 ppb
LoD = 0.0236 ppb

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM

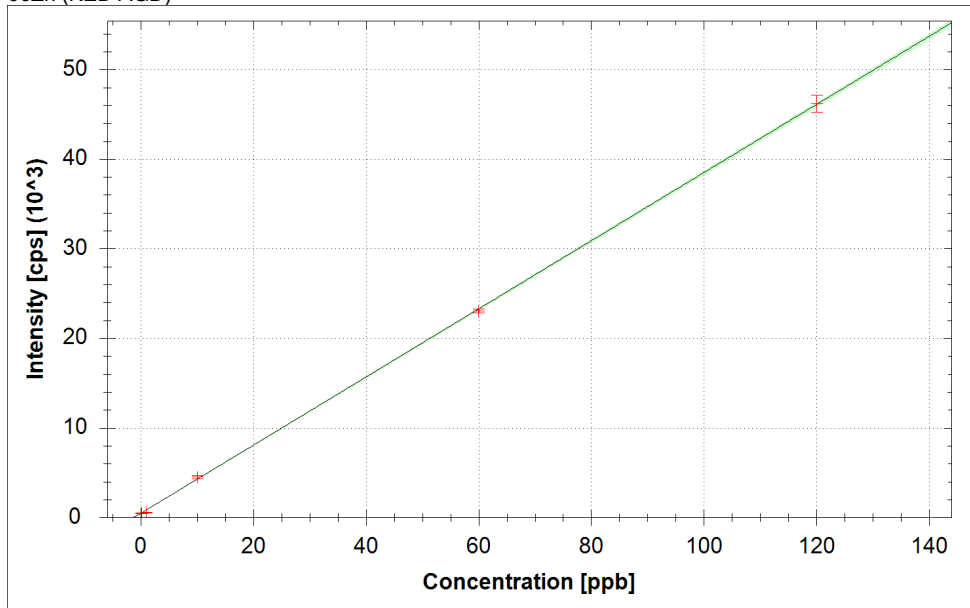


65Cu (KED AGD)



$f(x) = 1170.0293 \cdot x + 89.0178$
 $R^2 = 0.9998$
BEC = 0.076 ppb
LoD = 0.0384 ppb

66Zn (KED AGD)



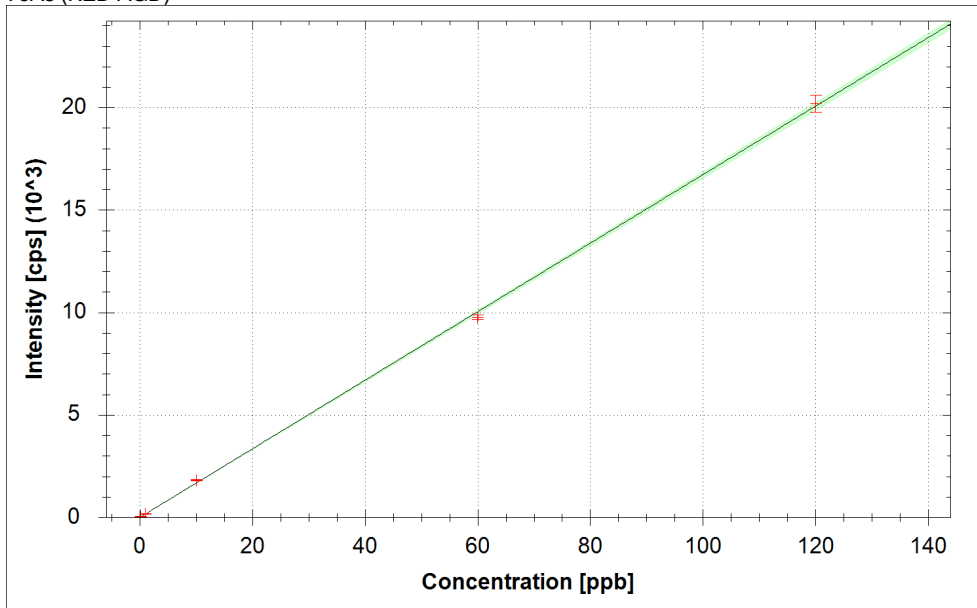
$f(x) = 380.1303 \cdot x + 472.0704$
 $R^2 = 0.9999$
BEC = 1.242 ppb
LoD = 0.2388 ppb

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM

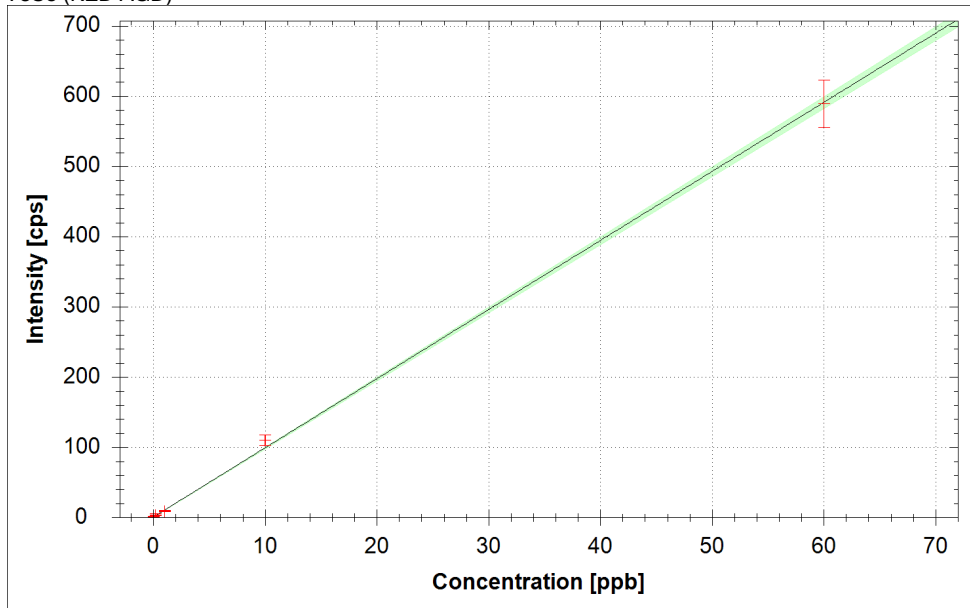


75As (KED AGD)



$f(x) = 167.1260 \cdot x + 7.2384$
 $R^2 = 0.9997$
BEC = 0.043 ppb
LoD = 0.0392 ppb

78Se (KED AGD)



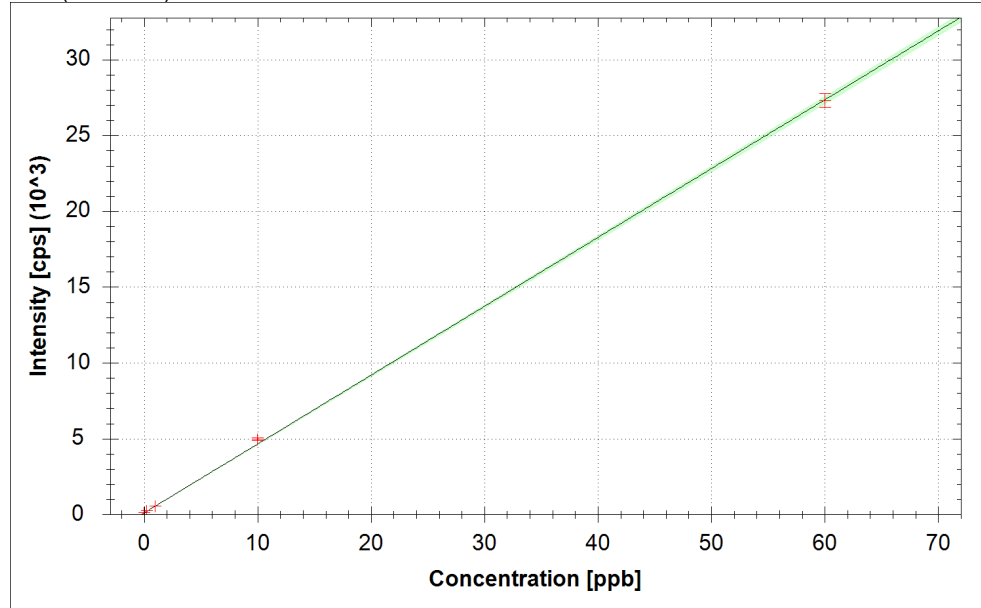
$f(x) = 9.8401 \cdot x + 0.6943$
 $R^2 = 0.9995$
BEC = 0.071 ppb
LoD = 0.1576 ppb

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM

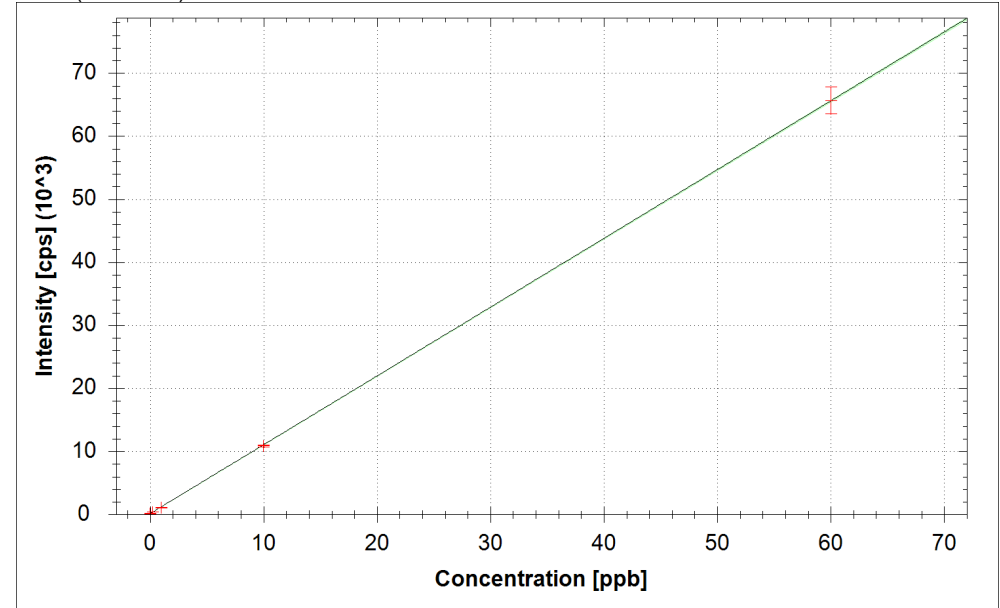


88Sr (KED AGD)



$f(x) = 454.0582 \cdot x + 101.7723$
 $R^2 = 0.9998$
BEC = 0.224 ppb
LoD = 0.0157 ppb

95Mo (KED AGD)



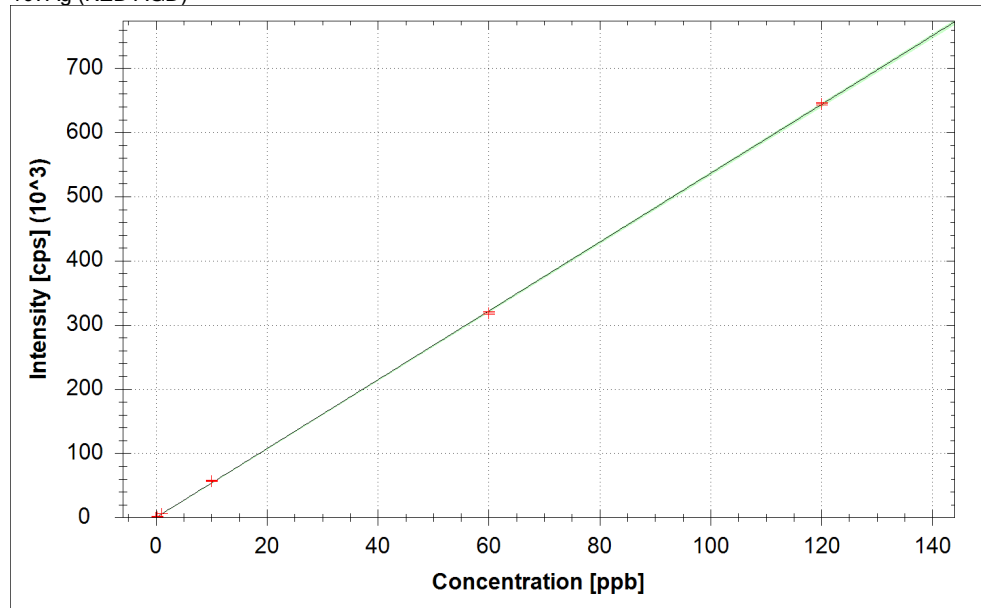
$f(x) = 1090.8575 \cdot x + 144.3385$
 $R^2 = 1.0000$
BEC = 0.132 ppb
LoD = 0.0618 ppb

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM

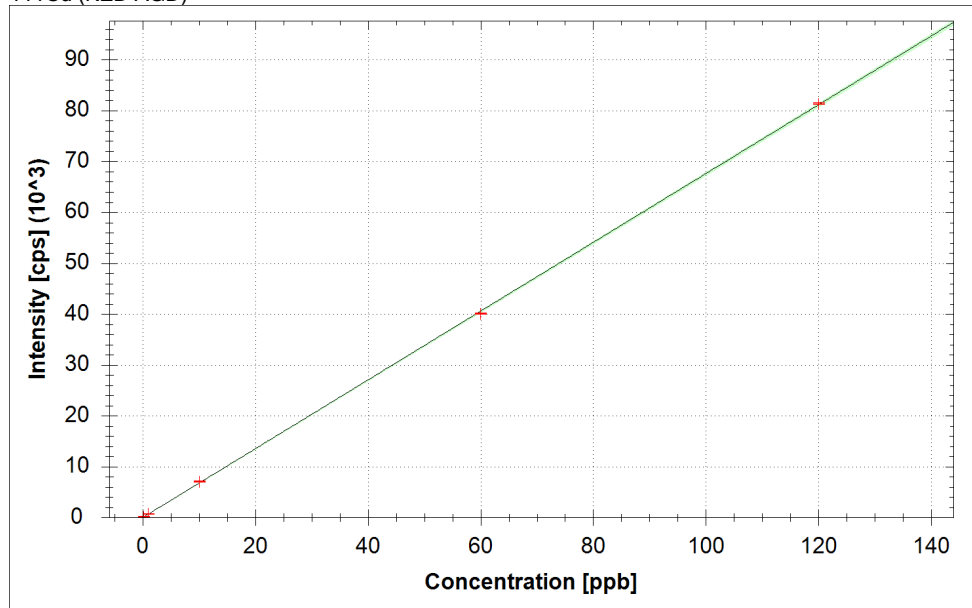


107Ag (KED AGD)



$f(x) = 5361.0767 * x + 48.9092$
 $R^2 = 0.9999$
BEC = 0.009 ppb
LoD = 0.0030 ppb

111Cd (KED AGD)



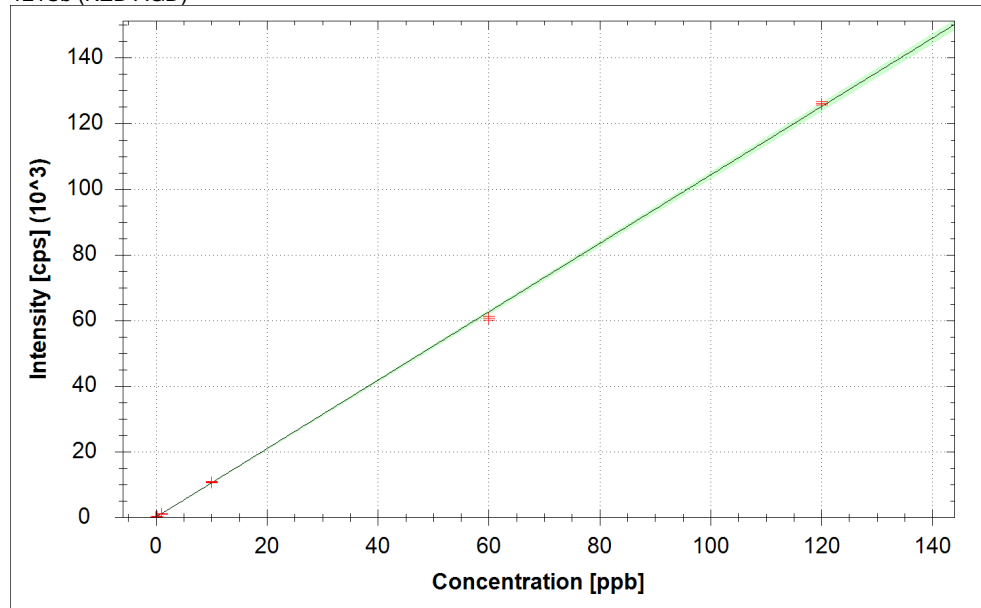
$f(x) = 675.9856 * x + 9.3180$
 $R^2 = 0.9999$
BEC = 0.014 ppb
LoD = 0.0210 ppb

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM

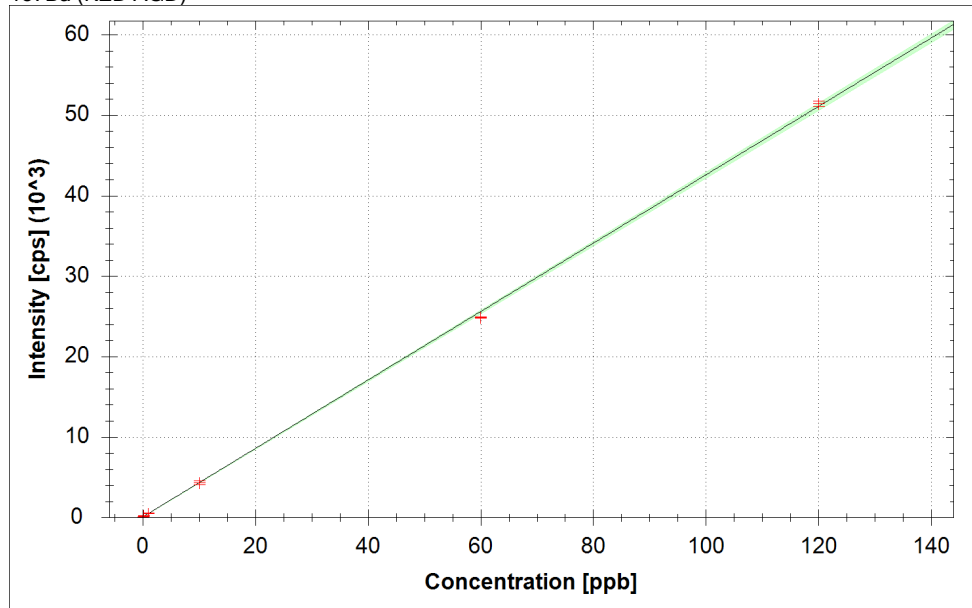


121Sb (KED AGD)



$f(x) = 1041.6166 \cdot x + 112.7598$
 $R^2 = 0.9997$
BEC = 0.108 ppb
LoD = 0.0418 ppb

137Ba (KED AGD)



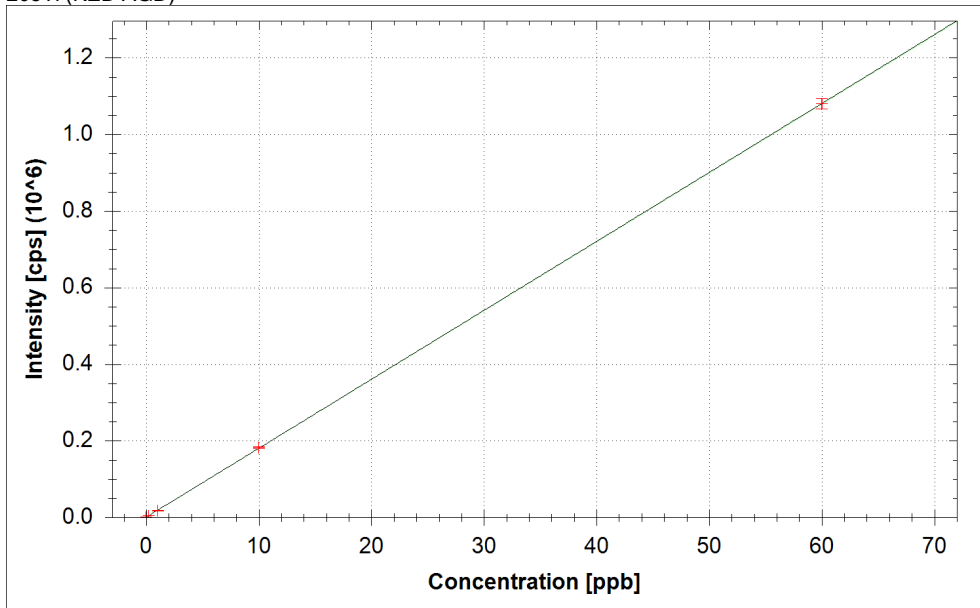
$f(x) = 424.9128 \cdot x + 82.0652$
 $R^2 = 0.9997$
BEC = 0.193 ppb
LoD = 0.1081 ppb

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM

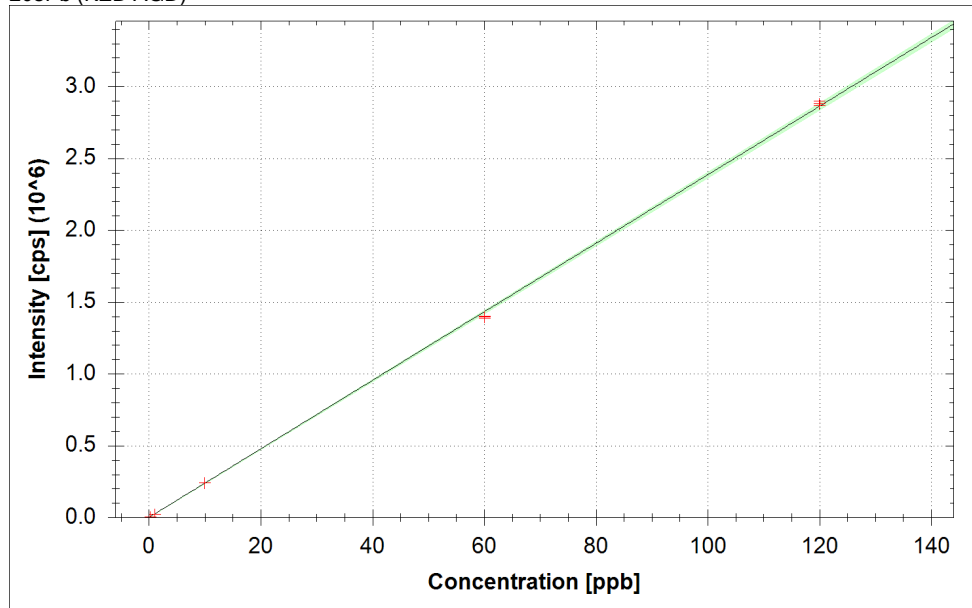


205TI (KED AGD)



$f(x) = 18000.2130 \cdot x + 630.7185$
 $R^2 = 1.0000$
BEC = 0.035 ppb
LoD = 0.0217 ppb

208Pb (KED AGD)



$f(x) = 23850.6987 \cdot x + 437.7964$
 $R^2 = 0.9997$
BEC = 0.018 ppb
LoD = 0.0003 ppb

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Standards:

Analysis Index: 4
Analysis Name: 0.2/20 Cal
Analysis Type: STD
Analysis Started at: 8/13/2023 1:27:04 PM
Total Dilution Factor: 50000
Rack: 0
Vial: 2

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	96.551 %	1.4 %	
6Li (KED AGD)	98.374 %	7.2 %	
9Be (STD AGD)	0.210 ppb	3.8 %	0.200 ppb
23Na (KED AGD)	15.509 ppb	11.0 %	20.000 ppb
24Mg (KED AGD)	23.000 ppb	6.1 %	20.000 ppb
27Al (KED AGD)	0.456 ppb	112.1 %	0.200 ppb
39K (KED AGD)	11.326 ppb	33.6 %	20.000 ppb
44Ca (KED AGD)	233.259 ppb	8.5 %	20.000 ppb
45Sc (STD AGD)	98.727 %	1.2 %	
51V (KED AGD)	0.185 ppb	6.0 %	0.200 ppb
52Cr (KED AGD)	0.168 ppb	15.6 %	0.200 ppb
55Mn (KED AGD)	-0.006 ppb	990.2 %	0.200 ppb
57Fe (KED AGD)	20.618 ppb	9.8 %	20.000 ppb
59Co (KED AGD)	0.215 ppb	14.7 %	0.200 ppb
60Ni (KED AGD)	0.113 ppb	28.7 %	0.200 ppb
65Cu (KED AGD)	0.163 ppb	52.2 %	0.200 ppb
66Zn (KED AGD)	-0.035 ppb	167.7 %	0.200 ppb
74Ge (KED AGD)	98.150 %	3.1 %	
75As (KED AGD)	0.202 ppb	3.5 %	0.200 ppb
78Se (KED AGD)	0.315 ppb	44.0 %	0.200 ppb
88Sr (KED AGD)	0.299 ppb	6.7 %	0.200 ppb
95Mo (KED AGD)	0.205 ppb	7.1 %	0.200 ppb
103Rh (KED AGD)	98.701 %	1.7 %	
107Ag (KED AGD)	0.215 ppb	6.2 %	0.200 ppb
111Cd (KED AGD)	0.203 ppb	15.6 %	0.200 ppb
115In (KED AGD)	98.172 %	1.5 %	
121Sb (KED AGD)	0.189 ppb	16.0 %	0.200 ppb
137Ba (KED AGD)	0.258 ppb	14.9 %	0.200 ppb
159Tb (KED AGD)	97.903 %	2.4 %	
175Lu (KED AGD)	97.347 %	1.6 %	
205Tl (KED AGD)	0.196 ppb	7.0 %	0.200 ppb
208Pb (KED AGD)	0.204 ppb	2.4 %	0.200 ppb
209Bi (KED AGD)	99.087 %	0.1 %	

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Standards:

Analysis Index: 5
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 8/13/2023 1:31:32 PM
Total Dilution Factor: 10000
Rack: 0
Vial: 3

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	96.223 %	0.8 %	
6Li (KED AGD)	96.929 %	3.3 %	
9Be (STD AGD)	0.976 ppb	1.9 %	1.000 ppb
23Na (KED AGD)	88.642 ppb	2.2 %	100.000 ppb
24Mg (KED AGD)	99.523 ppb	8.0 %	100.000 ppb
27Al (KED AGD)	0.128 ppb	296.9 %	1.000 ppb
39K (KED AGD)	84.772 ppb	4.3 %	100.000 ppb
44Ca (KED AGD)	143.771 ppb	14.7 %	100.000 ppb
45Sc (STD AGD)	96.444 %	0.2 %	
51V (KED AGD)	1.013 ppb	9.6 %	1.000 ppb
52Cr (KED AGD)	0.931 ppb	5.1 %	1.000 ppb
55Mn (KED AGD)	0.691 ppb	27.5 %	1.000 ppb
57Fe (KED AGD)	91.905 ppb	2.4 %	100.000 ppb
59Co (KED AGD)	0.988 ppb	3.6 %	1.000 ppb
60Ni (KED AGD)	0.808 ppb	4.8 %	1.000 ppb
65Cu (KED AGD)	0.917 ppb	7.5 %	1.000 ppb
66Zn (KED AGD)	0.208 ppb	38.9 %	1.000 ppb
74Ge (KED AGD)	99.619 %	3.6 %	
75As (KED AGD)	0.974 ppb	9.6 %	1.000 ppb
78Se (KED AGD)	0.878 ppb	10.8 %	1.000 ppb
88Sr (KED AGD)	1.002 ppb	0.6 %	1.000 ppb
95Mo (KED AGD)	0.858 ppb	5.8 %	1.000 ppb
103Rh (KED AGD)	97.226 %	1.2 %	
107Ag (KED AGD)	1.018 ppb	3.2 %	1.000 ppb
111Cd (KED AGD)	0.981 ppb	3.1 %	1.000 ppb
115In (KED AGD)	96.004 %	0.6 %	
121Sb (KED AGD)	0.921 ppb	5.0 %	1.000 ppb
137Ba (KED AGD)	0.930 ppb	7.7 %	1.000 ppb
159Tb (KED AGD)	97.193 %	1.1 %	
175Lu (KED AGD)	97.674 %	0.3 %	
205Tl (KED AGD)	0.940 ppb	0.9 %	1.000 ppb
208Pb (KED AGD)	0.966 ppb	0.5 %	1.000 ppb
209Bi (KED AGD)	97.246 %	2.3 %	

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Standards:

Analysis Index: 6
Analysis Name: 10/1000 Cal
Analysis Type: STD
Analysis Started at: 8/13/2023 1:36:00 PM
Total Dilution Factor: 1000
Rack: 0
Vial: 4

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	96.032 %	0.7 %	
6Li (KED AGD)	95.032 %	4.4 %	
9Be (STD AGD)	10.550 ppb	0.9 %	10.000 ppb
23Na (KED AGD)	1,007.307 ppb	4.2 %	1,000.000 ppb
24Mg (KED AGD)	1,041.700 ppb	5.1 %	1,000.000 ppb
27Al (KED AGD)	10.553 ppb	11.0 %	10.000 ppb
39K (KED AGD)	1,047.335 ppb	4.1 %	1,000.000 ppb
44Ca (KED AGD)	1,114.560 ppb	5.5 %	1,000.000 ppb
45Sc (STD AGD)	97.888 %	1.0 %	
51V (KED AGD)	10.683 ppb	7.4 %	10.000 ppb
52Cr (KED AGD)	10.583 ppb	2.9 %	10.000 ppb
55Mn (KED AGD)	10.810 ppb	9.6 %	10.000 ppb
57Fe (KED AGD)	1,066.379 ppb	5.5 %	1,000.000 ppb
59Co (KED AGD)	10.808 ppb	6.0 %	10.000 ppb
60Ni (KED AGD)	10.828 ppb	4.7 %	10.000 ppb
65Cu (KED AGD)	11.074 ppb	3.7 %	10.000 ppb
66Zn (KED AGD)	10.565 ppb	5.0 %	10.000 ppb
74Ge (KED AGD)	94.088 %	3.1 %	
75As (KED AGD)	10.832 ppb	1.4 %	10.000 ppb
78Se (KED AGD)	11.110 ppb	7.1 %	10.000 ppb
88Sr (KED AGD)	10.687 ppb	1.6 %	10.000 ppb
95Mo (KED AGD)	9.830 ppb	1.6 %	10.000 ppb
103Rh (KED AGD)	95.822 %	0.9 %	
107Ag (KED AGD)	10.592 ppb	2.4 %	10.000 ppb
111Cd (KED AGD)	10.476 ppb	1.7 %	10.000 ppb
115In (KED AGD)	95.871 %	1.3 %	
121Sb (KED AGD)	10.195 ppb	2.1 %	10.000 ppb
137Ba (KED AGD)	9.958 ppb	5.5 %	10.000 ppb
159Tb (KED AGD)	96.640 %	2.3 %	
175Lu (KED AGD)	95.907 %	1.6 %	
205Tl (KED AGD)	10.083 ppb	1.6 %	10.000 ppb
208Pb (KED AGD)	10.081 ppb	0.2 %	10.000 ppb
209Bi (KED AGD)	97.324 %	1.1 %	

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 8/13/2023 1:40:30 PM
Total Dilution Factor: 166.6666666
Rack: 0
Vial: 5

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	94.043 %	0.5 %	
6Li (KED AGD)	92.593 %	9.6 %	
9Be (STD AGD)	58.580 ppb	0.6 %	60.000 ppb
23Na (KED AGD)	5,797.585 ppb	7.3 %	6,000.000 ppb
24Mg (KED AGD)	5,859.194 ppb	5.5 %	6,000.000 ppb
27Al (KED AGD)	58.616 ppb	9.0 %	60.000 ppb
39K (KED AGD)	5,725.459 ppb	6.7 %	6,000.000 ppb
44Ca (KED AGD)	5,789.235 ppb	5.6 %	6,000.000 ppb
45Sc (STD AGD)	99.516 %	1.5 %	
51V (KED AGD)	58.477 ppb	2.1 %	60.000 ppb
52Cr (KED AGD)	57.562 ppb	2.8 %	60.000 ppb
55Mn (KED AGD)	58.147 ppb	2.0 %	60.000 ppb
57Fe (KED AGD)	5,791.638 ppb	1.2 %	6,000.000 ppb
59Co (KED AGD)	58.414 ppb	0.8 %	60.000 ppb
60Ni (KED AGD)	58.927 ppb	2.0 %	60.000 ppb
65Cu (KED AGD)	59.199 ppb	1.1 %	60.000 ppb
66Zn (KED AGD)	59.393 ppb	0.9 %	60.000 ppb
74Ge (KED AGD)	97.295 %	0.9 %	
75As (KED AGD)	58.336 ppb	1.2 %	60.000 ppb
78Se (KED AGD)	59.817 ppb	5.7 %	60.000 ppb
88Sr (KED AGD)	59.885 ppb	1.7 %	60.000 ppb
95Mo (KED AGD)	60.031 ppb	3.3 %	60.000 ppb
103Rh (KED AGD)	93.336 %	1.4 %	
107Ag (KED AGD)	59.363 ppb	0.6 %	60.000 ppb
111Cd (KED AGD)	59.203 ppb	0.3 %	60.000 ppb
115In (KED AGD)	94.503 %	1.3 %	
121Sb (KED AGD)	58.199 ppb	1.0 %	60.000 ppb
137Ba (KED AGD)	58.334 ppb	0.3 %	60.000 ppb
159Tb (KED AGD)	96.262 %	0.9 %	
175Lu (KED AGD)	95.247 %	0.9 %	
205Tl (KED AGD)	59.987 ppb	1.3 %	60.000 ppb
208Pb (KED AGD)	58.438 ppb	0.5 %	60.000 ppb
209Bi (KED AGD)	92.298 %	1.0 %	

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Standards:

Analysis Index: 8
 Analysis Name: 120/12000 Cal
 Analysis Type: STD
 Analysis Started at: 8/13/2023 1:44:59 PM
 Total Dilution Factor: 83.33333333
 Rack: 0
 Vial: 6

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	88.711 %	0.5 %	
6Li (KED AGD)	86.811 %	1.0 %	
9Be (STD AGD)	120.664 ppb	0.2 %	120.000 ppb
23Na (KED AGD)	12,100.701 ppb	0.8 %	12,000.000 ppb
24Mg (KED AGD)	12,066.927 ppb	2.0 %	12,000.000 ppb
27Al (KED AGD)	120.653 ppb	3.6 %	120.000 ppb
39K (KED AGD)	12,133.467 ppb	2.9 %	12,000.000 ppb
44Ca (KED AGD)	12,095.116 ppb	2.7 %	12,000.000 ppb
45Sc (STD AGD)	98.998 %	0.3 %	
51V (KED AGD)	120.704 ppb	2.8 %	120.000 ppb
52Cr (KED AGD)	121.171 ppb	1.4 %	120.000 ppb
55Mn (KED AGD)	120.862 ppb	0.7 %	120.000 ppb
57Fe (KED AGD)	12,098.716 ppb	1.8 %	12,000.000 ppb
59Co (KED AGD)	120.726 ppb	3.4 %	120.000 ppb
60Ni (KED AGD)	120.469 ppb	2.5 %	120.000 ppb
65Cu (KED AGD)	120.312 ppb	2.7 %	120.000 ppb
66Zn (KED AGD)	120.263 ppb	2.1 %	120.000 ppb
74Ge (KED AGD)	93.751 %	2.1 %	
75As (KED AGD)	120.763 ppb	2.1 %	120.000 ppb
78Se (KED AGD)	126.974 ppb	5.3 %	120.000 ppb
88Sr (KED AGD)	125.219 ppb	1.9 %	120.000 ppb
95Mo (KED AGD)	131.385 ppb	2.2 %	120.000 ppb
103Rh (KED AGD)	89.450 %	1.4 %	
107Ag (KED AGD)	120.269 ppb	0.4 %	120.000 ppb
111Cd (KED AGD)	120.359 ppb	0.2 %	120.000 ppb
115In (KED AGD)	91.160 %	2.4 %	
121Sb (KED AGD)	120.885 ppb	0.4 %	120.000 ppb
137Ba (KED AGD)	120.837 ppb	0.7 %	120.000 ppb
159Tb (KED AGD)	94.249 %	1.6 %	
175Lu (KED AGD)	93.993 %	1.6 %	
205Tl (KED AGD)	125.793 ppb	0.7 %	120.000 ppb
208Pb (KED AGD)	120.774 ppb	0.5 %	120.000 ppb
209Bi (KED AGD)	88.440 %	0.9 %	

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 1 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: Rinse Rack 0
 Analysis started at: 8/13/2023 1:13:39 PM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.239 %	95.754 %	0.013 ppb	0.650 ppb	1.503 ppb	1.195 ppb	-6.198 ppb	-3.613 ppb	97.573 %
Concentration per Run 1	95.463 %	95.664 %	0.013 ppb	0.841 ppb	1.662 ppb	0.993 ppb	-7.216 ppb	-4.967 ppb	97.245 %
Concentration per Run 2	95.380 %	92.141 %	0.018 ppb	0.549 ppb	1.174 ppb	1.030 ppb	-6.838 ppb	-10.112 ppb	96.339 %
Concentration per Run 3	94.874 %	99.458 %	0.009 ppb	0.560 ppb	1.673 ppb	1.562 ppb	-4.540 ppb	4.240 ppb	99.136 %
Concentration RSD	0.3 %	3.8 %	33.6 %	25.5 %	18.9 %	26.6 %	23.4 %	201.3 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.035 ppb	0.077 ppb	0.230 ppb	75.393 ppb	0.014 ppb	0.396 ppb	0.124 ppb	1.947 ppb	94.203 %
Concentration per Run 1	0.077 ppb	0.081 ppb	0.202 ppb	72.949 ppb	0.011 ppb	0.414 ppb	0.080 ppb	1.974 ppb	90.466 %
Concentration per Run 2	-0.004 ppb	0.068 ppb	0.232 ppb	74.581 ppb	0.021 ppb	0.533 ppb	0.119 ppb	2.047 ppb	93.466 %
Concentration per Run 3	0.031 ppb	0.083 ppb	0.257 ppb	78.648 ppb	0.012 ppb	0.240 ppb	0.172 ppb	1.820 ppb	98.676 %
Concentration RSD	117.1 %	10.5 %	11.9 %	3.9 %	36.7 %	37.3 %	37.2 %	6.0 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.020 ppb	0.123 ppb	0.016 ppb	0.108 ppb	94.280 %	0.009 ppb	0.010 ppb	93.159 %	0.085 ppb
Concentration per Run 1	0.023 ppb	0.072 ppb	0.021 ppb	0.116 ppb	91.103 %	0.010 ppb	0.012 ppb	90.655 %	0.077 ppb
Concentration per Run 2	0.021 ppb	0.066 ppb	0.017 ppb	0.102 ppb	93.917 %	0.010 ppb	0.014 ppb	92.089 %	0.088 ppb
Concentration per Run 3	0.017 ppb	0.233 ppb	0.011 ppb	0.105 ppb	97.821 %	0.006 ppb	0.002 ppb	96.732 %	0.091 ppb
Concentration RSD	13.6 %	76.6 %	30.2 %	7.0 %	3.6 %	30.7 %	64.8 %	3.4 %	8.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.158 ppb	93.002 %	92.700 %	0.082 ppb	0.015 ppb	94.967 %
Concentration per Run 1	0.122 ppb	88.720 %	89.829 %	0.135 ppb	0.017 ppb	92.087 %
Concentration per Run 2	0.219 ppb	94.599 %	93.364 %	0.074 ppb	0.014 ppb	95.238 %
Concentration per Run 3	0.133 ppb	95.685 %	94.906 %	0.038 ppb	0.013 ppb	97.575 %
Concentration RSD	33.6 %	4.0 %	2.8 %	59.4 %	13.4 %	2.9 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 2 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CAL LOT #M22-1194 Rack 0
 Analysis started at: 8/13/2023 1:18:05 PM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.728 %	100.542 %	0.014 ppb	0.877 ppb	0.404 ppb	1.138 ppb	-4.236 ppb	-3.060 ppb	102.491 %
Concentration per Run 1	101.446 %	101.355 %	0.010 ppb	0.501 ppb	0.785 ppb	1.157 ppb	-3.760 ppb	-6.289 ppb	102.611 %
Concentration per Run 2	102.066 %	106.233 %	0.027 ppb	-0.240 ppb	0.761 ppb	1.387 ppb	-7.060 ppb	-2.228 ppb	103.878 %
Concentration per Run 3	98.671 %	94.038 %	0.006 ppb	2.370 ppb	-0.334 ppb	0.870 ppb	-1.888 ppb	-0.663 ppb	100.984 %
Concentration RSD	1.8 %	6.1 %	78.5 %	153.5 %	158.1 %	22.7 %	61.8 %	94.9 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.010 ppb	0.098 ppb	0.220 ppb	77.548 ppb	0.012 ppb	0.317 ppb	0.151 ppb	1.773 ppb	99.445 %
Concentration per Run 1	0.023 ppb	0.100 ppb	0.172 ppb	80.039 ppb	0.014 ppb	0.342 ppb	0.074 ppb	1.729 ppb	98.613 %
Concentration per Run 2	0.007 ppb	0.092 ppb	0.251 ppb	74.324 ppb	0.005 ppb	0.299 ppb	0.225 ppb	1.714 ppb	97.318 %
Concentration per Run 3	0.000 ppb	0.102 ppb	0.238 ppb	78.280 ppb	0.016 ppb	0.309 ppb	0.155 ppb	1.874 ppb	102.403 %
Concentration RSD	115.8 %	5.3 %	19.2 %	3.8 %	51.9 %	7.2 %	50.1 %	5.0 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.035 ppb	0.056 ppb	0.017 ppb	0.066 ppb	100.526 %	0.008 ppb	0.005 ppb	99.438 %	0.071 ppb
Concentration per Run 1	0.038 ppb	-0.014 ppb	0.006 ppb	0.011 ppb	98.332 %	0.014 ppb	0.006 ppb	98.145 %	0.065 ppb
Concentration per Run 2	0.018 ppb	0.064 ppb	0.028 ppb	0.062 ppb	101.610 %	0.008 ppb	0.006 ppb	98.928 %	0.089 ppb
Concentration per Run 3	0.049 ppb	0.120 ppb	0.016 ppb	0.126 ppb	101.635 %	0.002 ppb	0.002 ppb	101.241 %	0.059 ppb
Concentration RSD	45.0 %	119.6 %	64.6 %	87.1 %	1.9 %	76.3 %	53.8 %	1.6 %	22.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.122 ppb	99.620 %	98.634 %	0.016 ppb	0.014 ppb	100.479 %
Concentration per Run 1	0.120 ppb	97.333 %	97.573 %	0.006 ppb	0.011 ppb	99.337 %
Concentration per Run 2	0.145 ppb	100.477 %	99.207 %	0.019 ppb	0.017 ppb	100.464 %
Concentration per Run 3	0.102 ppb	101.051 %	99.123 %	0.023 ppb	0.015 ppb	101.636 %
Concentration RSD	17.9 %	2.0 %	0.9 %	56.2 %	22.2 %	1.1 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 3 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: Blank SMV ICPMSQ2 Rack 4
 Analysis started at: 8/13/2023 1:22:32 PM Vial 49

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.0 %	0.3 %	0.0 %	0.4 %	0.2 %	0.2 %	0.2 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.6 %	0.2 %	0.4 %	0.1 %	0.4 %	0.0 %	0.2 %	0.1 %	0.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration RSD	0.3 %	0.7 %	0.0 %	0.2 %	0.0 %	0.1 %	0.5 %	0.0 %	0.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.2 %	0.0 %	0.0 %	0.2 %	0.0 %	0.0 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 4 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: 0.2/20 Cal Rack 0
 Analysis started at: 8/13/2023 1:27:04 PM Vial 2

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.551 %	98.374 %	0.210 ppb	15.509 ppb	23.000 ppb	0.456 ppb	11.326 ppb	233.259 ppb	98.727 %
Concentration per Run 1	95.141 %	100.271 %	0.219 ppb	15.423 ppb	22.116 ppb	0.186 ppb	9.602 ppb	230.575 ppb	97.360 %
Concentration per Run 2	97.828 %	90.515 %	0.204 ppb	17.264 ppb	24.613 ppb	1.046 ppb	15.694 ppb	254.341 ppb	99.491 %
Concentration per Run 3	96.685 %	104.336 %	0.207 ppb	13.841 ppb	22.270 ppb	0.137 ppb	8.682 ppb	214.861 ppb	99.331 %
Concentration RSD	1.4 %	7.2 %	3.8 %	11.0 %	6.1 %	112.1 %	33.6 %	8.5 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.185 ppb	0.168 ppb	-0.006 ppb	20.618 ppb	0.215 ppb	0.113 ppb	0.163 ppb	-0.035 ppb	98.150 %
Concentration per Run 1	0.195 ppb	0.174 ppb	0.033 ppb	21.304 ppb	0.185 ppb	0.118 ppb	0.080 ppb	-0.087 ppb	98.550 %
Concentration per Run 2	0.187 ppb	0.139 ppb	0.018 ppb	22.203 ppb	0.213 ppb	0.079 ppb	0.250 ppb	-0.046 ppb	94.950 %
Concentration per Run 3	0.174 ppb	0.189 ppb	-0.068 ppb	18.348 ppb	0.248 ppb	0.143 ppb	0.160 ppb	0.028 ppb	100.950 %
Concentration RSD	6.0 %	15.6 %	990.2 %	9.8 %	14.7 %	28.7 %	52.2 %	167.7 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.202 ppb	0.315 ppb	0.299 ppb	0.205 ppb	98.701 %	0.215 ppb	0.203 ppb	98.172 %	0.189 ppb
Concentration per Run 1	0.195 ppb	0.198 ppb	0.276 ppb	0.192 ppb	97.642 %	0.206 ppb	0.166 ppb	97.548 %	0.155 ppb
Concentration per Run 2	0.208 ppb	0.279 ppb	0.311 ppb	0.201 ppb	100.597 %	0.230 ppb	0.223 ppb	99.892 %	0.197 ppb
Concentration per Run 3	0.204 ppb	0.469 ppb	0.311 ppb	0.221 ppb	97.863 %	0.209 ppb	0.219 ppb	97.075 %	0.214 ppb
Concentration RSD	3.5 %	44.0 %	6.7 %	7.1 %	1.7 %	6.2 %	15.6 %	1.5 %	16.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.258 ppb	97.903 %	97.347 %	0.196 ppb	0.204 ppb	99.087 %
Concentration per Run 1	0.279 ppb	95.313 %	95.706 %	0.180 ppb	0.209 ppb	99.256 %
Concentration per Run 2	0.281 ppb	98.624 %	97.654 %	0.206 ppb	0.203 ppb	98.992 %
Concentration per Run 3	0.213 ppb	99.772 %	98.681 %	0.202 ppb	0.200 ppb	99.012 %
Concentration RSD	14.9 %	2.4 %	1.6 %	7.0 %	2.4 %	0.1 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 5 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: 1/100 Cal Rack 0
 Analysis started at: 8/13/2023 1:31:32 PM Vial 3

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.223 %	96.929 %	0.976 ppb	88.642 ppb	99.523 ppb	0.128 ppb	84.772 ppb	143.771 ppb	96.444 %
Concentration per Run 1	97.028 %	93.225 %	0.992 ppb	89.820 ppb	95.613 ppb	-0.054 ppb	87.653 ppb	167.808 ppb	96.429 %
Concentration per Run 2	96.186 %	98.374 %	0.956 ppb	86.394 ppb	94.222 ppb	0.564 ppb	80.684 ppb	135.342 ppb	96.253 %
Concentration per Run 3	95.456 %	99.187 %	0.979 ppb	89.711 ppb	108.734 ppb	-0.126 ppb	85.980 ppb	128.163 ppb	96.651 %
Concentration RSD	0.8 %	3.3 %	1.9 %	2.2 %	8.0 %	296.9 %	4.3 %	14.7 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.013 ppb	0.931 ppb	0.691 ppb	91.905 ppb	0.988 ppb	0.808 ppb	0.917 ppb	0.208 ppb	99.619 %
Concentration per Run 1	1.119 ppb	0.971 ppb	0.906 ppb	94.504 ppb	0.999 ppb	0.836 ppb	0.996 ppb	0.240 ppb	95.440 %
Concentration per Run 2	0.991 ppb	0.944 ppb	0.545 ppb	90.666 ppb	1.015 ppb	0.826 ppb	0.870 ppb	0.269 ppb	101.613 %
Concentration per Run 3	0.928 ppb	0.879 ppb	0.622 ppb	90.546 ppb	0.948 ppb	0.764 ppb	0.884 ppb	0.116 ppb	101.803 %
Concentration RSD	9.6 %	5.1 %	27.5 %	2.4 %	3.6 %	4.8 %	7.5 %	38.9 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.974 ppb	0.878 ppb	1.002 ppb	0.858 ppb	97.226 %	1.018 ppb	0.981 ppb	96.004 %	0.921 ppb
Concentration per Run 1	0.923 ppb	0.774 ppb	0.998 ppb	0.812 ppb	95.944 %	1.041 ppb	1.008 ppb	95.665 %	0.872 ppb
Concentration per Run 2	1.082 ppb	0.899 ppb	1.008 ppb	0.851 ppb	97.726 %	1.033 ppb	0.988 ppb	95.632 %	0.928 ppb
Concentration per Run 3	0.918 ppb	0.960 ppb	0.999 ppb	0.910 ppb	98.008 %	0.981 ppb	0.949 ppb	96.716 %	0.964 ppb
Concentration RSD	9.6 %	10.8 %	0.6 %	5.8 %	1.2 %	3.2 %	3.1 %	0.6 %	5.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.930 ppb	97.193 %	97.674 %	0.940 ppb	0.966 ppb	97.246 %
Concentration per Run 1	0.912 ppb	95.973 %	97.569 %	0.931 ppb	0.971 ppb	95.121 %
Concentration per Run 2	1.009 ppb	97.514 %	97.989 %	0.947 ppb	0.963 ppb	97.076 %
Concentration per Run 3	0.870 ppb	98.093 %	97.464 %	0.942 ppb	0.964 ppb	99.542 %
Concentration RSD	7.7 %	1.1 %	0.3 %	0.9 %	0.5 %	2.3 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 6 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: 10/1000 Cal Rack 0
 Analysis started at: 8/13/2023 1:36:00 PM Vial 4

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.032 %	95.032 %	10.550 ppb	1,007.307 ppb	1,041.700 ppb	10.553 ppb	1,047.335 ppb	1,114.560 ppb	97.888 %
Concentration per Run 1	95.634 %	95.935 %	10.546 ppb	989.827 ppb	1,007.320 ppb	9.562 ppb	1,014.981 ppb	1,090.900 ppb	96.798 %
Concentration per Run 2	96.765 %	90.515 %	10.651 ppb	1,055.618 ppb	1,102.782 ppb	11.826 ppb	1,096.486 ppb	1,184.743 ppb	98.273 %
Concentration per Run 3	95.696 %	98.645 %	10.454 ppb	976.477 ppb	1,014.998 ppb	10.272 ppb	1,030.537 ppb	1,068.039 ppb	98.594 %
Concentration RSD	0.7 %	4.4 %	0.9 %	4.2 %	5.1 %	11.0 %	4.1 %	5.5 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	10.683 ppb	10.583 ppb	10.810 ppb	1,066.379 ppb	10.808 ppb	10.828 ppb	11.074 ppb	10.565 ppb	94.088 %
Concentration per Run 1	10.033 ppb	10.316 ppb	10.258 ppb	1,033.365 ppb	10.293 ppb	10.445 ppb	10.646 ppb	10.183 ppb	94.257 %
Concentration per Run 2	11.567 ppb	10.926 ppb	12.003 ppb	1,133.788 ppb	11.541 ppb	11.409 ppb	11.475 ppb	11.173 ppb	91.082 %
Concentration per Run 3	10.450 ppb	10.509 ppb	10.169 ppb	1,031.984 ppb	10.590 ppb	10.630 ppb	11.102 ppb	10.338 ppb	96.924 %
Concentration RSD	7.4 %	2.9 %	9.6 %	5.5 %	6.0 %	4.7 %	3.7 %	5.0 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.832 ppb	11.110 ppb	10.687 ppb	9.830 ppb	95.822 %	10.592 ppb	10.476 ppb	95.871 %	10.195 ppb
Concentration per Run 1	10.783 ppb	10.327 ppb	10.511 ppb	9.806 ppb	95.011 %	10.774 ppb	10.534 ppb	95.193 %	10.044 ppb
Concentration per Run 2	10.997 ppb	11.102 ppb	10.846 ppb	9.685 ppb	96.794 %	10.698 ppb	10.615 ppb	95.164 %	10.103 ppb
Concentration per Run 3	10.714 ppb	11.900 ppb	10.703 ppb	9.999 ppb	95.660 %	10.303 ppb	10.279 ppb	97.257 %	10.438 ppb
Concentration RSD	1.4 %	7.1 %	1.6 %	1.6 %	0.9 %	2.4 %	1.7 %	1.3 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	9.958 ppb	96.640 %	95.907 %	10.083 ppb	10.081 ppb	97.324 %
Concentration per Run 1	9.440 ppb	94.090 %	94.176 %	9.918 ppb	10.103 ppb	96.299 %
Concentration per Run 2	9.898 ppb	97.812 %	96.929 %	10.097 ppb	10.081 ppb	97.245 %
Concentration per Run 3	10.535 ppb	98.017 %	96.614 %	10.233 ppb	10.059 ppb	98.429 %
Concentration RSD	5.5 %	2.3 %	1.6 %	1.6 %	0.2 %	1.1 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 7 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: 60/6000 Cal Rack 0
 Analysis started at: 8/13/2023 1:40:30 PM Vial 5

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.043 %	92.593 %	58.580 ppb	5,797.585 ppb	5,859.194 ppb	58.616 ppb	5,725.459 ppb	5,789.235 ppb	99.516 %
Concentration per Run 1	93.610 %	82.385 %	58.782 ppb	6,280.165 ppb	6,231.738 ppb	64.471 ppb	6,138.573 ppb	6,129.458 ppb	97.761 %
Concentration per Run 2	94.052 %	98.103 %	58.149 ppb	5,496.587 ppb	5,665.345 ppb	57.074 ppb	5,385.967 ppb	5,481.094 ppb	100.512 %
Concentration per Run 3	94.466 %	97.290 %	58.808 ppb	5,616.004 ppb	5,680.499 ppb	54.305 ppb	5,651.837 ppb	5,757.153 ppb	100.274 %
Concentration RSD	0.5 %	9.6 %	0.6 %	7.3 %	5.5 %	9.0 %	6.7 %	5.6 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.477 ppb	57.562 ppb	58.147 ppb	5,791.638 ppb	58.414 ppb	58.927 ppb	59.199 ppb	59.393 ppb	97.295 %
Concentration per Run 1	59.823 ppb	59.006 ppb	59.297 ppb	5,794.899 ppb	58.299 ppb	59.941 ppb	59.322 ppb	59.215 ppb	97.501 %
Concentration per Run 2	57.417 ppb	55.794 ppb	56.928 ppb	5,723.354 ppb	58.005 ppb	57.614 ppb	58.495 ppb	58.972 ppb	98.077 %
Concentration per Run 3	58.192 ppb	57.885 ppb	58.217 ppb	5,856.662 ppb	58.938 ppb	59.226 ppb	59.778 ppb	59.992 ppb	96.306 %
Concentration RSD	2.1 %	2.8 %	2.0 %	1.2 %	0.8 %	2.0 %	1.1 %	0.9 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.336 ppb	59.817 ppb	59.885 ppb	60.031 ppb	93.336 %	59.363 ppb	59.203 ppb	94.503 %	58.199 ppb
Concentration per Run 1	58.428 ppb	56.423 ppb	59.020 ppb	58.167 ppb	91.799 %	59.588 ppb	59.000 ppb	93.078 %	57.754 ppb
Concentration per Run 2	57.609 ppb	59.816 ppb	59.630 ppb	59.858 ppb	93.895 %	58.922 ppb	59.351 ppb	95.085 %	57.979 ppb
Concentration per Run 3	58.972 ppb	63.212 ppb	61.005 ppb	62.067 ppb	94.315 %	59.580 ppb	59.259 ppb	95.346 %	58.865 ppb
Concentration RSD	1.2 %	5.7 %	1.7 %	3.3 %	1.4 %	0.6 %	0.3 %	1.3 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.334 ppb	96.262 %	95.247 %	59.987 ppb	58.438 ppb	92.298 %
Concentration per Run 1	58.493 ppb	95.956 %	94.254 %	59.183 ppb	58.259 ppb	91.278 %
Concentration per Run 2	58.158 ppb	95.543 %	95.527 %	60.104 ppb	58.313 ppb	92.428 %
Concentration per Run 3	58.352 ppb	97.285 %	95.961 %	60.675 ppb	58.743 ppb	93.189 %
Concentration RSD	0.3 %	0.9 %	0.9 %	1.3 %	0.5 %	1.0 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 8 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: 120/12000 Cal Rack 0
 Analysis started at: 8/13/2023 1:44:59 PM Vial 6

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.711 %	86.811 %	120.664 ppb	12,100.701 ppb	12,066.927 ppb	120.653 ppb	12,133.467 ppb	12,095.116 ppb	98.998 %
Concentration per Run 1	89.048 %	86.179 %	120.863 ppb	11,994.016 ppb	11,798.315 ppb	119.888 ppb	11,929.183 ppb	11,896.475 ppb	98.721 %
Concentration per Run 2	88.826 %	86.450 %	120.406 ppb	12,152.294 ppb	12,123.956 ppb	125.317 ppb	12,540.988 ppb	12,472.334 ppb	98.919 %
Concentration per Run 3	88.257 %	87.805 %	120.724 ppb	12,155.793 ppb	12,278.509 ppb	116.752 ppb	11,930.231 ppb	11,916.539 ppb	99.354 %
Concentration RSD	0.5 %	1.0 %	0.2 %	0.8 %	2.0 %	3.6 %	2.9 %	2.7 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	120.704 ppb	121.171 ppb	120.862 ppb	12,098.716 ppb	120.726 ppb	120.469 ppb	120.312 ppb	120.263 ppb	93.751 %
Concentration per Run 1	117.865 ppb	119.356 ppb	119.919 ppb	11,959.001 ppb	117.083 ppb	118.516 ppb	117.464 ppb	117.959 ppb	94.487 %
Concentration per Run 2	124.473 ppb	122.760 ppb	121.709 ppb	12,353.907 ppb	125.152 ppb	123.915 ppb	123.916 ppb	122.921 ppb	91.500 %
Concentration per Run 3	119.775 ppb	121.398 ppb	120.958 ppb	11,983.239 ppb	119.942 ppb	118.977 ppb	119.555 ppb	119.910 ppb	95.267 %
Concentration RSD	2.8 %	1.4 %	0.7 %	1.8 %	3.4 %	2.5 %	2.7 %	2.1 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	120.763 ppb				89.450 %	120.269 ppb	120.359 ppb	91.160 %	120.885 ppb
Concentration per Run 1	118.785 ppb	119.726 ppb	124.238 ppb	128.101 ppb	87.987 %	120.401 ppb	120.674 ppb	88.634 %	120.430 ppb
Concentration per Run 2	123.570 ppb	133.158 ppb	126.744 ppb	133.147 ppb	90.042 %	120.611 ppb	120.153 ppb	92.491 %	120.807 ppb
Concentration per Run 3	119.933 ppb	128.037 ppb	124.764 ppb	132.907 ppb	90.319 %	119.795 ppb	120.249 ppb	92.354 %	121.417 ppb
Concentration RSD	2.1 %				1.4 %	0.4 %	0.2 %	2.4 %	0.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	120.837 ppb	94.249 %	93.993 %		120.774 ppb	88.440 %
Concentration per Run 1	119.951 ppb	92.518 %	92.454 %	124.732 ppb	120.020 ppb	88.052 %
Concentration per Run 2	121.481 ppb	95.507 %	94.134 %	126.293 ppb	121.156 ppb	87.918 %
Concentration per Run 3	121.079 ppb	94.723 %	95.392 %	126.315 ppb	121.147 ppb	89.349 %
Concentration RSD	0.7 %	1.6 %	1.6 %		0.5 %	0.9 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 9 User name ALPHALAB\la2-icpmsq2 Comment Sr Intefrence Check
 Analysis label: Sr 200ppb Rack 4
 Analysis started at: 8/13/2023 1:49:30 PM Vial 55

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.122 %	92.593 %	0.014 ppb	2.545 ppb	0.155 ppb	0.197 ppb	-2.165 ppb	-6.818 ppb	92.339 %
Concentration per Run 1	92.256 %	89.431 %	0.014 ppb	2.236 ppb	-1.072 ppb	-0.288 ppb	-2.379 ppb	-90.344 ppb	92.404 %
Concentration per Run 2	93.677 %	96.206 %	0.020 ppb	2.594 ppb	-0.500 ppb	0.314 ppb	-2.949 ppb	98.480 ppb	91.553 %
Concentration per Run 3	93.432 %	92.141 %	0.010 ppb	2.806 ppb	2.037 ppb	0.566 ppb	-1.168 ppb	-28.592 ppb	93.060 %
Concentration RSD	0.8 %	3.7 %	35.5 %	11.3 %	1,069.3 %	222.3 %	42.0 %	1,412.0 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.017 ppb	-0.005 ppb	-0.076 ppb	2.827 ppb	0.016 ppb	0.068 ppb	0.037 ppb	0.390 ppb	93.809 %
Concentration per Run 1	0.012 ppb	-0.009 ppb	-0.042 ppb	4.092 ppb	0.008 ppb	0.126 ppb	0.015 ppb	0.360 ppb	94.549 %
Concentration per Run 2	0.027 ppb	0.016 ppb	-0.059 ppb	0.233 ppb	0.023 ppb	0.069 ppb	0.057 ppb	0.419 ppb	93.917 %
Concentration per Run 3	0.013 ppb	-0.023 ppb	-0.128 ppb	4.158 ppb	0.016 ppb	0.008 ppb	0.041 ppb	0.390 ppb	92.960 %
Concentration RSD	47.5 %	384.2 %	60.1 %	79.5 %	46.9 %	87.0 %	56.5 %	7.6 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.518 ppb	2.890 ppb	215.141 ppb	1.724 ppb	95.338 %	0.010 ppb	-0.001 ppb	95.549 %	-0.001 ppb
Concentration per Run 1	0.421 ppb	2.502 ppb	213.141 ppb	1.533 ppb	94.719 %	0.012 ppb	-0.001 ppb	94.834 %	-0.014 ppb
Concentration per Run 2	0.551 ppb	3.266 ppb	215.869 ppb	1.748 ppb	95.324 %	0.007 ppb	-0.003 ppb	95.302 %	-0.010 ppb
Concentration per Run 3	0.584 ppb	2.902 ppb	216.411 ppb	1.891 ppb	95.972 %	0.012 ppb	0.001 ppb	96.509 %	0.020 ppb
Concentration RSD	16.6 %	13.2 %	0.8 %	10.4 %	0.7 %	27.0 %	142.9 %	0.9 %	1,516.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.004 ppb	95.875 %	96.262 %	0.604 ppb	0.015 ppb	96.900 %
Concentration per Run 1	0.089 ppb	94.088 %	94.933 %	0.584 ppb	0.014 ppb	96.754 %
Concentration per Run 2	-0.022 ppb	96.871 %	97.490 %	0.699 ppb	0.019 ppb	96.780 %
Concentration per Run 3	-0.055 ppb	96.665 %	96.363 %	0.530 ppb	0.013 ppb	97.166 %
Concentration RSD	1,815.3 %	1.6 %	1.3 %	14.2 %	18.3 %	0.2 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 10 User name ALPHALAB\la2-icpmsq2 Comment ICV
 Analysis label: ICV Rack 0
 Analysis started at: 8/13/2023 1:54:02 PM Vial 7

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.089 %	91.689 %	48.267 ppb	4,645.257 ppb	4,826.610 ppb	47.735 ppb	4,718.829 ppb	4,870.983 ppb	94.282 %
Concentration per Run 1	91.847 %	87.263 %	48.236 ppb	4,765.858 ppb	5,012.198 ppb	50.930 ppb	4,963.573 ppb	5,014.438 ppb	94.772 %
Concentration per Run 2	91.336 %	92.141 %	48.519 ppb	4,696.211 ppb	4,830.335 ppb	45.888 ppb	4,685.246 ppb	4,788.254 ppb	94.715 %
Concentration per Run 3	90.083 %	95.664 %	48.047 ppb	4,473.701 ppb	4,637.297 ppb	46.386 ppb	4,507.667 ppb	4,810.257 ppb	93.358 %
Recovery Percentage 1			96.535 %	92.905 %	96.532 %	95.469 %	94.377 %	97.420 %	
Concentration RSD	1.0 %	4.6 %	0.5 %	3.3 %	3.9 %	5.8 %	4.9 %	2.6 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.440 ppb	47.556 ppb	48.745 ppb	4,747.442 ppb	46.826 ppb	48.742 ppb	48.575 ppb	48.474 ppb	95.592 %
Concentration per Run 1	48.169 ppb	48.248 ppb	47.905 ppb	4,821.842 ppb	47.383 ppb	49.340 ppb	49.585 ppb	49.220 ppb	93.489 %
Concentration per Run 2	46.986 ppb	47.587 ppb	48.211 ppb	4,720.668 ppb	46.526 ppb	48.615 ppb	48.069 ppb	47.900 ppb	96.506 %
Concentration per Run 3	47.166 ppb	46.833 ppb	50.119 ppb	4,699.815 ppb	46.568 ppb	48.270 ppb	48.072 ppb	48.303 ppb	96.782 %
Recovery Percentage 1	94.881 %	95.111 %	97.489 %	94.949 %	93.651 %	97.483 %	97.151 %	96.949 %	
Concentration RSD	1.3 %	1.5 %	2.5 %	1.4 %	1.0 %	1.1 %	1.8 %	1.4 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	47.080 ppb	50.275 ppb	49.664 ppb	51.009 ppb	91.283 %	49.284 ppb	48.559 ppb	92.366 %	48.097 ppb
Concentration per Run 1	47.400 ppb	49.374 ppb	50.242 ppb	50.131 ppb	89.607 %	49.222 ppb	48.712 ppb	91.481 %	47.663 ppb
Concentration per Run 2	46.282 ppb	51.557 ppb	48.935 ppb	50.297 ppb	92.684 %	49.081 ppb	48.457 ppb	92.594 %	48.105 ppb
Concentration per Run 3	47.557 ppb	49.893 ppb	49.815 ppb	52.598 ppb	91.557 %	49.550 ppb	48.509 ppb	93.023 %	48.524 ppb
Recovery Percentage 1	94.159 %	100.550 %	99.327 %	102.017 %		98.568 %	97.119 %		96.194 %
Concentration RSD	1.5 %	2.3 %	1.3 %	2.7 %	1.7 %	0.5 %	0.3 %	0.9 %	0.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	47.651 ppb	93.715 %	93.737 %	48.355 ppb	47.759 ppb	91.947 %
Concentration per Run 1	47.507 ppb	90.514 %	91.709 %	47.703 ppb	47.713 ppb	90.334 %
Concentration per Run 2	47.632 ppb	94.775 %	94.484 %	48.499 ppb	47.921 ppb	92.487 %
Concentration per Run 3	47.815 ppb	95.857 %	95.018 %	48.863 ppb	47.644 ppb	93.019 %
Recovery Percentage 1	95.302 %			96.710 %		95.518 %
Concentration RSD	0.3 %	3.0 %	1.9 %	1.2 %	0.3 %	1.5 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 11 User name ALPHALAB\la2-icpmsq2 Comment ICB
 Analysis label: ICB Rack 0
 Analysis started at: 8/13/2023 1:58:33 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.737 %	99.639 %	0.010 ppb	-4.804 ppb	-1.598 ppb	-0.694 ppb	-7.611 ppb	-10.968 ppb	94.955 %
Concentration per Run 1	95.292 %	96.477 %	0.016 ppb	-3.889 ppb	-0.900 ppb	-0.718 ppb	-6.087 ppb	-9.177 ppb	93.900 %
Concentration per Run 2	94.956 %	103.523 %	0.009 ppb	-6.120 ppb	-2.003 ppb	-0.933 ppb	-6.595 ppb	-12.087 ppb	95.000 %
Concentration per Run 3	93.963 %	98.916 %	0.004 ppb	-4.403 ppb	-1.892 ppb	-0.429 ppb	-10.150 ppb	-11.640 ppb	95.964 %
Recovery Percentage 1			1.976 %	-4.804 %	-2.283 %	-6.936 %	-7.611 %	-10.968 %	
Concentration RSD	0.7 %	3.6 %	60.6 %	24.3 %	38.0 %	36.5 %	29.1 %	14.3 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.027 ppb	-0.024 ppb	-0.194 ppb	-0.240 ppb	0.000 ppb	-0.092 ppb	-0.043 ppb	-0.823 ppb	96.632 %
Concentration per Run 1	-0.020 ppb	-0.028 ppb	-0.167 ppb	-0.841 ppb	-0.004 ppb	-0.112 ppb	-0.033 ppb	-0.845 ppb	92.329 %
Concentration per Run 2	-0.030 ppb	-0.017 ppb	-0.213 ppb	2.072 ppb	-0.005 ppb	-0.047 ppb	-0.053 ppb	-0.788 ppb	97.508 %
Concentration per Run 3	-0.030 ppb	-0.026 ppb	-0.202 ppb	-1.950 ppb	0.009 ppb	-0.117 ppb	-0.042 ppb	-0.835 ppb	100.058 %
Recovery Percentage 1	-0.530 %	-2.360 %	-19.369 %	-0.480 %	0.034 %	-4.605 %	-4.263 %	-16.454 %	
Concentration RSD	21.4 %	25.4 %	12.3 %	865.9 %	4,609.7 %	42.6 %	23.2 %	3.7 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.235 ppb	1.718 ppb	0.005 ppb	1.031 ppb	96.055 %	0.003 ppb	-0.001 ppb	95.409 %	0.000 ppb
Concentration per Run 1	0.151 ppb	2.040 ppb	0.008 ppb	0.746 ppb	96.433 %	0.005 ppb	-0.003 ppb	92.349 %	0.003 ppb
Concentration per Run 2	0.259 ppb	1.454 ppb	0.018 ppb	1.109 ppb	95.410 %	0.001 ppb	0.005 ppb	96.540 %	-0.002 ppb
Concentration per Run 3	0.296 ppb	1.661 ppb	-0.012 ppb	1.236 ppb	96.322 %	0.002 ppb	-0.006 ppb	97.338 %	0.000 ppb
Recovery Percentage 1	47.029 %	34.367 %	0.049 %	51.530 %		0.695 %	-0.706 %		0.004 %
Concentration RSD	32.1 %	17.3 %	311.3 %	24.7 %	0.6 %	78.0 %	382.9 %	2.8 %	1,417.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.022 ppb	94.400 %	94.491 %	0.379 ppb	0.000 ppb	95.658 %
Concentration per Run 1	0.010 ppb	92.639 %	93.096 %	0.359 ppb	0.002 ppb	94.379 %
Concentration per Run 2	0.011 ppb	95.659 %	93.649 %	0.428 ppb	-0.002 ppb	95.843 %
Concentration per Run 3	0.044 ppb	94.902 %	96.727 %	0.350 ppb	-0.001 ppb	96.751 %
Recovery Percentage 1	4.328 %			37.882 %	-0.027 %	
Concentration RSD	87.7 %	1.7 %	2.1 %	11.3 %	695.8 %	1.3 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 12 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: WG1814150-1 6020TL Rack: 1
 Analysis started at: 8/13/2023 2:07:06 PM Vial: 28

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.966 %	92.231 %	0.000 ppb	-1.486 ppb	1.665 ppb	1.203 ppb	-8.976 ppb	4.234 ppb	95.862 %
Concentration per Run 1	95.089 %	90.515 %	-0.004 ppb	-1.050 ppb	0.163 ppb	0.844 ppb	-11.464 ppb	5.079 ppb	95.614 %
Concentration per Run 2	94.937 %	89.160 %	0.006 ppb	-1.473 ppb	4.044 ppb	1.985 ppb	-7.917 ppb	9.959 ppb	96.129 %
Concentration per Run 3	94.873 %	97.019 %	-0.001 ppb	-1.936 ppb	0.786 ppb	0.781 ppb	-7.549 ppb	-2.337 ppb	95.843 %
Concentration RSD	0.1 %	4.6 %	1,335.4 %	29.8 %	125.2 %	56.4 %	24.1 %	146.2 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.010 ppb	-0.041 ppb	-0.092 ppb	-2.485 ppb	0.004 ppb	-0.050 ppb	0.193 ppb	-0.451 ppb	97.640 %
Concentration per Run 1	-0.004 ppb	-0.045 ppb	-0.106 ppb	-1.351 ppb	0.015 ppb	-0.077 ppb	0.141 ppb	-0.559 ppb	95.100 %
Concentration per Run 2	0.003 ppb	-0.045 ppb	-0.086 ppb	-3.534 ppb	-0.004 ppb	-0.025 ppb	0.171 ppb	-0.363 ppb	98.069 %
Concentration per Run 3	-0.030 ppb	-0.035 ppb	-0.083 ppb	-2.571 ppb	0.002 ppb	-0.047 ppb	0.268 ppb	-0.430 ppb	99.750 %
Concentration RSD	168.0 %	14.5 %	13.3 %	44.0 %	224.8 %	51.5 %	34.3 %	22.1 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.079 ppb	0.376 ppb	0.008 ppb	0.191 ppb	93.608 %	0.001 ppb	-0.003 ppb	94.062 %	-0.037 ppb
Concentration per Run 1	0.062 ppb	0.145 ppb	0.016 ppb	0.088 ppb	90.102 %	-0.002 ppb	-0.003 ppb	90.078 %	-0.036 ppb
Concentration per Run 2	0.089 ppb	0.514 ppb	-0.004 ppb	0.247 ppb	93.949 %	0.001 ppb	-0.005 ppb	93.818 %	-0.039 ppb
Concentration per Run 3	0.087 ppb	0.469 ppb	0.012 ppb	0.237 ppb	96.774 %	0.004 ppb	-0.002 ppb	98.291 %	-0.036 ppb
Concentration RSD	19.1 %	53.6 %	136.6 %	46.7 %	3.6 %	306.5 %	57.3 %	4.4 %	4.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.048 ppb	92.648 %	92.670 %	0.097 ppb	0.004 ppb	94.437 %
Concentration per Run 1	0.094 ppb	90.433 %	91.754 %	0.100 ppb	0.004 ppb	91.437 %
Concentration per Run 2	-0.017 ppb	93.177 %	92.942 %	0.108 ppb	0.002 ppb	95.212 %
Concentration per Run 3	0.068 ppb	94.335 %	93.316 %	0.084 ppb	0.005 ppb	96.663 %
Concentration RSD	120.2 %	2.2 %	0.9 %	12.3 %	44.0 %	2.9 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 13 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: WG1810773-1 6020TL Rack 1
 Analysis started at: 8/13/2023 2:11:33 PM Vial 36

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.857 %	91.147 %	0.004 ppb	0.982 ppb	1.051 ppb	0.839 ppb	-9.473 ppb	26.302 ppb	97.844 %
Concentration per Run 1	97.430 %	85.366 %	0.012 ppb	1.841 ppb	0.369 ppb	0.558 ppb	-9.025 ppb	29.288 ppb	96.819 %
Concentration per Run 2	96.295 %	83.469 %	-0.003 ppb	2.626 ppb	3.501 ppb	1.457 ppb	-11.127 ppb	23.207 ppb	97.844 %
Concentration per Run 3	96.846 %	104.607 %	0.005 ppb	-1.520 ppb	-0.716 ppb	0.502 ppb	-8.266 ppb	26.412 ppb	98.870 %
Concentration RSD	0.6 %	12.8 %	168.0 %	224.2 %	208.3 %	63.9 %	15.6 %	11.6 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.042 ppb	-0.006 ppb	-0.179 ppb	-4.881 ppb	0.003 ppb	-0.063 ppb	-0.024 ppb	-0.815 ppb	99.939 %
Concentration per Run 1	-0.052 ppb	-0.005 ppb	-0.218 ppb	-4.649 ppb	-0.002 ppb	-0.033 ppb	-0.023 ppb	-0.807 ppb	98.297 %
Concentration per Run 2	-0.044 ppb	0.001 ppb	-0.162 ppb	-4.735 ppb	0.012 ppb	-0.081 ppb	-0.036 ppb	-0.822 ppb	102.434 %
Concentration per Run 3	-0.030 ppb	-0.015 ppb	-0.157 ppb	-5.258 ppb	0.000 ppb	-0.075 ppb	-0.013 ppb	-0.816 ppb	99.087 %
Concentration RSD	26.0 %	130.1 %	19.0 %	6.7 %	225.7 %	41.2 %	47.5 %	0.9 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.023 ppb	0.131 ppb	0.031 ppb	0.102 ppb	98.211 %	0.001 ppb	-0.007 ppb	98.156 %	-0.040 ppb
Concentration per Run 1	0.033 ppb	0.063 ppb	0.026 ppb	-0.006 ppb	96.684 %	0.004 ppb	-0.008 ppb	94.777 %	-0.052 ppb
Concentration per Run 2	0.035 ppb	0.129 ppb	0.034 ppb	0.174 ppb	98.920 %	-0.003 ppb	-0.006 ppb	98.074 %	-0.031 ppb
Concentration per Run 3	0.002 ppb	0.201 ppb	0.033 ppb	0.139 ppb	99.029 %	0.001 ppb	-0.008 ppb	101.617 %	-0.039 ppb
Concentration RSD	79.3 %	52.5 %	14.2 %	93.6 %	1.3 %	439.6 %	16.3 %	3.5 %	25.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.006 ppb	96.917 %	97.313 %	0.047 ppb	-0.001 ppb	98.562 %
Concentration per Run 1	-0.028 ppb	95.028 %	95.777 %	0.029 ppb	-0.001 ppb	96.384 %
Concentration per Run 2	0.031 ppb	98.162 %	97.951 %	0.054 ppb	0.000 ppb	98.392 %
Concentration per Run 3	-0.020 ppb	97.560 %	98.210 %	0.056 ppb	-0.001 ppb	100.911 %
Concentration RSD	563.1 %	1.7 %	1.4 %	32.4 %	61.4 %	2.3 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 14 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1810773-2D10 6020TL Rack: 1
 Analysis started at: 8/13/2023 2:16:03 PM Vial: 37

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.026 %	98.916 %	5.272 ppb	994.445 ppb	1,018.249 ppb	207.708 ppb	1,005.175 ppb	1,022.168 ppb	96.530 %
Concentration per Run 1	95.824 %	107.588 %	5.300 ppb	918.109 ppb	940.400 ppb	195.165 ppb	987.531 ppb	1,015.839 ppb	96.394 %
Concentration per Run 2	96.086 %	89.160 %	5.199 ppb	1,082.968 ppb	1,140.782 ppb	223.611 ppb	1,015.018 ppb	1,071.500 ppb	96.455 %
Concentration per Run 3	96.168 %	100.000 %	5.318 ppb	982.260 ppb	973.564 ppb	204.348 ppb	1,012.978 ppb	979.164 ppb	96.740 %
Concentration RSD	0.2 %	9.4 %	1.2 %	8.4 %	10.5 %	7.0 %	1.5 %	4.5 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.800 ppb	20.035 ppb	53.542 ppb	100.407 ppb	51.249 ppb	51.844 ppb	26.508 ppb	52.762 ppb	96.374 %
Concentration per Run 1	47.622 ppb	19.456 ppb	51.652 ppb	93.373 ppb	49.504 ppb	51.419 ppb	25.273 ppb	51.353 ppb	96.674 %
Concentration per Run 2	51.076 ppb	20.489 ppb	56.036 ppb	105.330 ppb	53.288 ppb	52.931 ppb	27.710 ppb	53.932 ppb	96.295 %
Concentration per Run 3	50.701 ppb	20.160 ppb	52.939 ppb	102.518 ppb	50.954 ppb	51.183 ppb	26.541 ppb	53.002 ppb	96.153 %
Concentration RSD	3.8 %	2.6 %	4.2 %	6.2 %	3.7 %	1.8 %	4.6 %	2.5 %	0.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.840 ppb	13.049 ppb	105.599 ppb	102.205 ppb	95.490 %	5.317 ppb	5.621 ppb	94.838 %	36.890 ppb
Concentration per Run 1	12.386 ppb	12.092 ppb	103.889 ppb	100.024 ppb	96.007 %	5.461 ppb	5.846 ppb	93.195 %	37.020 ppb
Concentration per Run 2	13.277 ppb	13.071 ppb	105.907 ppb	101.552 ppb	94.900 %	5.149 ppb	5.410 ppb	95.326 %	36.651 ppb
Concentration per Run 3	12.857 ppb	13.985 ppb	107.003 ppb	105.039 ppb	95.563 %	5.340 ppb	5.607 ppb	95.993 %	36.998 ppb
Concentration RSD	3.5 %	7.3 %	1.5 %	2.5 %	0.6 %	3.0 %	3.9 %	1.5 %	0.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	204.052 ppb	96.344 %	96.361 %	12.891 ppb	55.410 ppb	95.692 %
Concentration per Run 1	204.585 ppb	96.178 %	96.203 %	12.929 ppb	55.465 ppb	94.538 %
Concentration per Run 2	205.394 ppb	97.978 %	96.336 %	12.879 ppb	55.484 ppb	95.910 %
Concentration per Run 3	202.175 ppb	94.877 %	96.544 %	12.866 ppb	55.282 ppb	96.628 %
Concentration RSD	0.8 %	1.6 %	0.2 %	0.3 %	0.2 %	1.1 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 15 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1814150-2D10 6020TL Rack: 1
 Analysis started at: 8/13/2023 2:20:31 PM Vial: 29

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.236 %	99.277 %	5.490 ppb	991.296 ppb	999.006 ppb	214.051 ppb	1,035.443 ppb	1,022.050 ppb	96.682 %
Concentration per Run 1	94.336 %	104.607 %	5.429 ppb	951.568 ppb	953.403 ppb	204.129 ppb	978.951 ppb	984.486 ppb	97.266 %
Concentration per Run 2	94.176 %	101.355 %	5.548 ppb	966.930 ppb	987.351 ppb	210.786 ppb	1,026.000 ppb	1,009.064 ppb	95.856 %
Concentration per Run 3	94.195 %	91.870 %	5.494 ppb	1,055.390 ppb	1,056.264 ppb	227.239 ppb	1,101.377 ppb	1,072.600 ppb	96.924 %
Concentration RSD	0.1 %	6.7 %	1.1 %	5.7 %	5.2 %	5.6 %	6.0 %	4.4 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	52.764 ppb	21.414 ppb	54.810 ppb	106.698 ppb	53.928 ppb	53.933 ppb	27.967 ppb	55.987 ppb	95.024 %
Concentration per Run 1	50.920 ppb	20.854 ppb	54.959 ppb	99.968 ppb	53.230 ppb	53.264 ppb	27.946 ppb	55.527 ppb	94.162 %
Concentration per Run 2	52.811 ppb	21.522 ppb	54.604 ppb	106.401 ppb	53.590 ppb	53.021 ppb	27.065 ppb	56.397 ppb	94.621 %
Concentration per Run 3	54.561 ppb	21.867 ppb	54.868 ppb	113.725 ppb	54.966 ppb	55.513 ppb	28.891 ppb	56.037 ppb	96.289 %
Concentration RSD	3.5 %	2.4 %	0.3 %	6.5 %	1.7 %	2.5 %	3.3 %	0.8 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.768 ppb	13.001 ppb	106.731 ppb	104.978 ppb	94.536 %	5.421 ppb	5.794 ppb	95.279 %	40.920 ppb
Concentration per Run 1	12.529 ppb	13.013 ppb	106.487 ppb	100.335 ppb	94.181 %	5.329 ppb	5.574 ppb	94.399 %	40.267 ppb
Concentration per Run 2	12.904 ppb	13.125 ppb	107.167 ppb	107.554 ppb	94.852 %	5.428 ppb	5.887 ppb	94.030 %	41.390 ppb
Concentration per Run 3	12.870 ppb	12.866 ppb	106.539 ppb	107.044 ppb	94.577 %	5.506 ppb	5.921 ppb	97.409 %	41.103 ppb
Concentration RSD	1.6 %	1.0 %	0.4 %	3.8 %	0.4 %	1.6 %	3.3 %	1.9 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	214.041 ppb	96.599 %	96.311 %	12.705 ppb	54.342 ppb	95.162 %
Concentration per Run 1	212.324 ppb	94.445 %	94.498 %	12.646 ppb	53.722 ppb	94.721 %
Concentration per Run 2	217.141 ppb	96.269 %	96.404 %	12.823 ppb	54.988 ppb	94.397 %
Concentration per Run 3	212.657 ppb	99.083 %	98.029 %	12.645 ppb	54.318 ppb	96.367 %
Concentration RSD	1.3 %	2.4 %	1.8 %	0.8 %	1.2 %	1.1 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 16 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1814150-3D10 6020TL Rack: 1
 Analysis started at: 8/13/2023 2:24:59 PM Vial: 31

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.929 %	91.328 %	5.404 ppb	4,740.050 ppb	4,558.815 ppb	216.434 ppb	2,960.795 ppb	12,340.978 ppb	94.645 %
Concentration per Run 1	93.129 %	85.908 %	5.375 ppb	4,952.844 ppb	4,757.466 ppb	222.875 ppb	3,035.927 ppb	12,705.871 ppb	93.830 %
Concentration per Run 2	94.410 %	91.328 %	5.419 ppb	4,764.260 ppb	4,588.423 ppb	219.775 ppb	2,918.708 ppb	12,042.282 ppb	94.879 %
Concentration per Run 3	94.249 %	96.748 %	5.416 ppb	4,503.044 ppb	4,330.557 ppb	206.652 ppb	2,927.750 ppb	12,274.780 ppb	95.227 %
Concentration RSD	0.7 %	5.9 %	0.5 %	4.8 %	4.7 %	4.0 %	2.2 %	2.7 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	52.893 ppb	20.727 ppb	53.386 ppb	107.561 ppb	50.862 ppb	50.910 ppb	25.856 ppb	56.342 ppb	95.650 %
Concentration per Run 1	52.899 ppb	21.141 ppb	53.464 ppb	104.983 ppb	50.950 ppb	51.231 ppb	25.351 ppb	56.185 ppb	95.182 %
Concentration per Run 2	52.111 ppb	20.664 ppb	53.125 ppb	106.966 ppb	49.385 ppb	51.599 ppb	25.900 ppb	55.715 ppb	97.842 %
Concentration per Run 3	53.668 ppb	20.376 ppb	53.568 ppb	110.734 ppb	52.253 ppb	49.902 ppb	26.317 ppb	57.126 ppb	93.926 %
Concentration RSD	1.5 %	1.9 %	0.4 %	2.7 %	2.8 %	1.8 %	1.9 %	1.3 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.198 ppb	12.631 ppb	152.516 ppb	105.276 ppb	91.279 %	5.324 ppb	5.540 ppb	92.743 %	42.475 ppb
Concentration per Run 1	11.607 ppb	11.784 ppb	151.089 ppb	101.149 ppb	90.477 %	5.196 ppb	5.422 ppb	91.404 %	42.264 ppb
Concentration per Run 2	12.264 ppb	12.339 ppb	151.634 ppb	107.340 ppb	91.049 %	5.397 ppb	5.546 ppb	93.386 %	42.439 ppb
Concentration per Run 3	12.722 ppb	13.771 ppb	154.824 ppb	107.339 ppb	92.312 %	5.380 ppb	5.652 ppb	93.439 %	42.723 ppb
Concentration RSD	4.6 %	8.1 %	1.3 %	3.4 %	1.0 %	2.1 %	2.1 %	1.3 %	0.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	213.701 ppb	95.166 %	94.656 %	12.502 ppb	53.315 ppb	90.663 %
Concentration per Run 1	211.827 ppb	92.571 %	93.158 %	12.319 ppb	53.017 ppb	90.495 %
Concentration per Run 2	215.220 ppb	95.589 %	94.782 %	12.501 ppb	53.530 ppb	90.684 %
Concentration per Run 3	214.055 ppb	97.339 %	96.028 %	12.686 ppb	53.398 ppb	90.808 %
Concentration RSD	0.8 %	2.5 %	1.5 %	1.5 %	0.5 %	0.2 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 17 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1814150-5D10 6020TL Rack: 1
 Analysis started at: 8/13/2023 2:29:28 PM Vial: 33

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.334 %	88.527 %	47.797 ppb	8,702.852 ppb	8,589.996 ppb	50.490 ppb	6,905.947 ppb	16,452.317 ppb	96.738 %
Concentration per Run 1	92.068 %	87.263 %	48.115 ppb	8,643.596 ppb	8,422.127 ppb	50.067 ppb	6,816.646 ppb	16,325.306 ppb	97.136 %
Concentration per Run 2	92.840 %	90.244 %	47.502 ppb	8,678.989 ppb	8,644.430 ppb	51.649 ppb	6,983.125 ppb	16,484.035 ppb	96.274 %
Concentration per Run 3	92.095 %	88.076 %	47.775 ppb	8,785.971 ppb	8,703.430 ppb	49.755 ppb	6,918.070 ppb	16,547.610 ppb	96.803 %
Concentration RSD	0.5 %	1.7 %	0.6 %	0.9 %	1.7 %	2.0 %	1.2 %	0.7 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.491 ppb	49.313 ppb	50.700 ppb	4,961.445 ppb	48.934 ppb	49.576 ppb	48.818 ppb	53.115 ppb	93.868 %
Concentration per Run 1	49.820 ppb	49.761 ppb	49.720 ppb	4,944.610 ppb	48.805 ppb	50.158 ppb	48.178 ppb	52.591 ppb	93.283 %
Concentration per Run 2	50.426 ppb	50.358 ppb	53.902 ppb	5,078.548 ppb	50.048 ppb	49.628 ppb	49.848 ppb	54.595 ppb	91.957 %
Concentration per Run 3	48.227 ppb	47.819 ppb	48.479 ppb	4,861.176 ppb	47.948 ppb	48.941 ppb	48.427 ppb	52.159 ppb	96.364 %
Concentration RSD	2.3 %	2.7 %	5.6 %	2.2 %	2.2 %	1.2 %	1.8 %	2.4 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	49.189 ppb	53.177 ppb	102.621 ppb	54.338 ppb	89.710 %	1.736 ppb	49.721 ppb	91.040 %	53.365 ppb
Concentration per Run 1	48.398 ppb	49.985 ppb	102.008 ppb	53.781 ppb	88.596 %	1.795 ppb	49.756 ppb	89.183 %	53.928 ppb
Concentration per Run 2	50.758 ppb	56.750 ppb	103.592 ppb	54.338 ppb	90.835 %	1.692 ppb	49.718 ppb	92.710 %	52.598 ppb
Concentration per Run 3	48.411 ppb	52.798 ppb	102.263 ppb	54.895 ppb	89.700 %	1.721 ppb	49.689 ppb	91.226 %	53.570 ppb
Concentration RSD	2.8 %	6.4 %	0.8 %	1.0 %	1.2 %	3.1 %	0.1 %	1.9 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	54.842 ppb	93.708 %	93.998 %	50.085 ppb	49.575 ppb	89.510 %
Concentration per Run 1	54.404 ppb	92.100 %	93.014 %	49.857 ppb	49.693 ppb	88.566 %
Concentration per Run 2	54.518 ppb	93.654 %	94.531 %	50.414 ppb	49.677 ppb	89.546 %
Concentration per Run 3	55.604 ppb	95.370 %	94.451 %	49.985 ppb	49.355 ppb	90.417 %
Concentration RSD	1.2 %	1.7 %	0.9 %	0.6 %	0.4 %	1.0 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 18 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: WG1814150-4 6020TL Rack: 1
 Analysis started at: 8/13/2023 2:33:57 PM Vial: 32

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.920 %	89.611 %	0.009 ppb	40,551.413 ppb	35,336.379 ppb	26.733 ppb	20,468.637 ppb	118,519.418 ppb	92.815 %
Concentration per Run 1	87.995 %	84.011 %	0.010 ppb	41,985.120 ppb	36,502.789 ppb	26.386 ppb	21,393.446 ppb	122,750.709 ppb	91.935 %
Concentration per Run 2	87.140 %	95.664 %	0.009 ppb	38,632.357 ppb	33,881.863 ppb	26.393 ppb	20,000.220 ppb	114,850.403 ppb	92.916 %
Concentration per Run 3	85.626 %	89.160 %	0.008 ppb	41,036.761 ppb	35,624.485 ppb	27.422 ppb	20,012.244 ppb	117,957.142 ppb	93.594 %
Concentration RSD	1.4 %	6.5 %	9.2 %	4.3 %	3.8 %	2.2 %	3.9 %	3.4 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.160 ppb	1.246 ppb	0.930 ppb	25.675 ppb	0.141 ppb	0.613 ppb	0.106 ppb	32.390 ppb	87.280 %
Concentration per Run 1	0.172 ppb	1.305 ppb	1.078 ppb	22.813 ppb	0.107 ppb	0.741 ppb	0.102 ppb	33.284 ppb	83.220 %
Concentration per Run 2	0.163 ppb	1.247 ppb	0.810 ppb	28.305 ppb	0.191 ppb	0.633 ppb	0.111 ppb	32.416 ppb	87.444 %
Concentration per Run 3	0.146 ppb	1.187 ppb	0.901 ppb	25.907 ppb	0.124 ppb	0.467 ppb	0.106 ppb	31.469 ppb	91.177 %
Concentration RSD	8.3 %	4.8 %	14.7 %	10.7 %	31.4 %	22.5 %	4.2 %	2.8 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.312 ppb	5.069 ppb	551.246 ppb	1.819 ppb	80.774 %	0.066 ppb	0.067 ppb	87.532 %	1.552 ppb
Concentration per Run 1	0.215 ppb	4.766 ppb	561.396 ppb	1.661 ppb	78.419 %	0.073 ppb	0.069 ppb	85.363 %	1.513 ppb
Concentration per Run 2	0.374 ppb	5.282 ppb	548.986 ppb	1.888 ppb	81.549 %	0.060 ppb	0.059 ppb	88.818 %	1.604 ppb
Concentration per Run 3	0.346 ppb	5.159 ppb	543.356 ppb	1.908 ppb	82.352 %	0.065 ppb	0.073 ppb	88.414 %	1.539 ppb
Concentration RSD	27.3 %	5.3 %	1.7 %	7.5 %	2.6 %	9.2 %	10.6 %	2.2 %	3.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	63.217 ppb	91.373 %	91.358 %	0.381 ppb	0.060 ppb	78.481 %
Concentration per Run 1	61.733 ppb	89.288 %	89.509 %	0.378 ppb	0.061 ppb	76.329 %
Concentration per Run 2	64.495 ppb	91.547 %	92.001 %	0.428 ppb	0.062 ppb	79.240 %
Concentration per Run 3	63.423 ppb	93.285 %	92.566 %	0.337 ppb	0.058 ppb	79.875 %
Concentration RSD	2.2 %	2.2 %	1.8 %	12.0 %	3.2 %	2.4 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 19 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2346014-02 6020TL Rack 1
 Analysis started at: 8/13/2023 2:38:26 PM Vial 30

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.784 %	87.353 %	0.009 ppb	41,825.506 ppb	36,656.216 ppb	24.973 ppb	20,466.874 ppb	119,399.929 ppb	93.009 %
Concentration per Run 1	89.014 %	85.095 %	0.007 ppb	42,336.463 ppb	36,876.434 ppb	24.380 ppb	19,783.522 ppb	115,754.464 ppb	93.423 %
Concentration per Run 2	88.395 %	82.656 %	0.009 ppb	43,243.272 ppb	38,295.621 ppb	26.392 ppb	21,256.050 ppb	124,245.633 ppb	93.384 %
Concentration per Run 3	88.942 %	94.309 %	0.010 ppb	39,896.783 ppb	34,796.594 ppb	24.147 ppb	20,361.050 ppb	118,199.689 ppb	92.219 %
Concentration RSD	0.4 %	7.0 %	12.9 %	4.1 %	4.8 %	4.9 %	3.6 %	3.7 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.138 ppb	1.302 ppb	1.242 ppb	24.665 ppb	0.163 ppb	0.629 ppb	0.108 ppb	32.570 ppb	86.601 %
Concentration per Run 1	0.131 ppb	1.270 ppb	1.263 ppb	29.226 ppb	0.150 ppb	0.691 ppb	0.089 ppb	32.053 ppb	86.433 %
Concentration per Run 2	0.167 ppb	1.278 ppb	1.324 ppb	22.454 ppb	0.174 ppb	0.543 ppb	0.115 ppb	32.719 ppb	86.914 %
Concentration per Run 3	0.116 ppb	1.358 ppb	1.138 ppb	22.314 ppb	0.167 ppb	0.652 ppb	0.119 ppb	32.938 ppb	86.457 %
Concentration RSD	19.0 %	3.7 %	7.6 %	16.0 %	7.7 %	12.3 %	15.2 %	1.4 %	0.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.161 ppb	4.349 ppb	551.821 ppb	0.720 ppb	79.812 %	0.057 ppb	0.065 ppb	86.768 %	0.914 ppb
Concentration per Run 1	0.061 ppb	4.175 ppb	545.488 ppb	0.482 ppb	77.066 %	0.051 ppb	0.063 ppb	85.463 %	0.818 ppb
Concentration per Run 2	0.204 ppb	4.090 ppb	554.721 ppb	0.829 ppb	81.069 %	0.066 ppb	0.063 ppb	86.350 %	0.954 ppb
Concentration per Run 3	0.217 ppb	4.784 ppb	555.253 ppb	0.850 ppb	81.301 %	0.053 ppb	0.069 ppb	88.492 %	0.972 ppb
Concentration RSD	53.9 %	8.7 %	1.0 %	28.7 %	3.0 %	14.3 %	5.2 %	1.8 %	9.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	62.377 ppb	90.602 %	90.801 %	0.121 ppb	0.063 ppb	77.723 %
Concentration per Run 1	61.617 ppb	88.268 %	88.003 %	0.097 ppb	0.068 ppb	76.840 %
Concentration per Run 2	62.872 ppb	91.302 %	91.134 %	0.138 ppb	0.057 ppb	77.680 %
Concentration per Run 3	62.642 ppb	92.236 %	93.265 %	0.128 ppb	0.064 ppb	78.649 %
Concentration RSD	1.1 %	2.3 %	2.9 %	17.5 %	8.7 %	1.2 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 20 User name ALPHALAB\la2-icpmsq Comment <Comment>
 Analysis label: L2345809-07 6020TL Rack 1
 Analysis started at: 8/13/2023 2:42:54 PM Vial 35

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.378 %	103.342 %	0.007 ppb	8.018 ppb	8.256 ppb	11.223 ppb	-5.463 ppb	18.683 ppb	96.887 %
Concentration per Run 1	97.399 %	101.355 %	0.009 ppb	7.642 ppb	6.535 ppb	10.915 ppb	-6.427 ppb	22.610 ppb	96.611 %
Concentration per Run 2	100.046 %	102.168 %	0.003 ppb	10.300 ppb	8.722 ppb	11.658 ppb	-7.165 ppb	16.699 ppb	98.044 %
Concentration per Run 3	97.689 %	106.504 %	0.009 ppb	6.112 ppb	9.512 ppb	11.095 ppb	-2.798 ppb	16.741 ppb	96.005 %
Concentration RSD	1.5 %	2.7 %	45.6 %	26.4 %	18.7 %	3.5 %	42.8 %	18.2 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.072 ppb	0.042 ppb	0.632 ppb	19.210 ppb	0.012 ppb	-0.004 ppb	0.103 ppb	0.095 ppb	100.171 %
Concentration per Run 1	0.108 ppb	0.048 ppb	0.626 ppb	20.487 ppb	0.009 ppb	0.008 ppb	0.114 ppb	0.011 ppb	101.992 %
Concentration per Run 2	0.052 ppb	0.032 ppb	0.499 ppb	18.802 ppb	0.019 ppb	0.005 ppb	0.132 ppb	0.201 ppb	98.266 %
Concentration per Run 3	0.057 ppb	0.045 ppb	0.772 ppb	18.342 ppb	0.007 ppb	-0.025 ppb	0.065 ppb	0.074 ppb	100.255 %
Concentration RSD	43.1 %	19.7 %	21.6 %	5.9 %	55.9 %	431.2 %	33.4 %	101.3 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.048 ppb	0.149 ppb	0.095 ppb	1.040 ppb	96.916 %	0.002 ppb	-0.006 ppb	96.310 %	0.584 ppb
Concentration per Run 1	0.006 ppb	0.057 ppb	0.097 ppb	0.956 ppb	95.306 %	0.002 ppb	-0.012 ppb	96.177 %	0.544 ppb
Concentration per Run 2	0.053 ppb	0.162 ppb	0.105 ppb	1.105 ppb	98.260 %	0.004 ppb	-0.002 ppb	96.603 %	0.613 ppb
Concentration per Run 3	0.086 ppb	0.229 ppb	0.084 ppb	1.058 ppb	97.181 %	0.001 ppb	-0.006 ppb	96.151 %	0.595 ppb
Concentration RSD	83.7 %	57.8 %	11.1 %	7.3 %	1.5 %	84.6 %	80.8 %	0.3 %	6.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.092 ppb	95.982 %	95.685 %	0.046 ppb	0.014 ppb	97.171 %
Concentration per Run 1	0.134 ppb	95.712 %	94.861 %	0.033 ppb	0.012 ppb	96.735 %
Concentration per Run 2	0.019 ppb	95.351 %	95.150 %	0.051 ppb	0.013 ppb	98.168 %
Concentration per Run 3	0.124 ppb	96.883 %	97.043 %	0.053 ppb	0.017 ppb	96.610 %
Concentration RSD	68.7 %	0.8 %	1.2 %	24.4 %	17.6 %	0.9 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 21 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1814150-6D5 6020TL Rack: 1
 Analysis started at: 8/13/2023 2:47:24 PM Vial: 34

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.389 %	98.916 %	0.002 ppb	7,555.704 ppb	6,989.471 ppb	5.758 ppb	3,872.042 ppb	22,585.967 ppb	93.726 %
Concentration per Run 1	93.234 %	103.523 %	0.002 ppb	7,307.236 ppb	6,719.340 ppb	5.207 ppb	3,716.444 ppb	21,763.186 ppb	92.416 %
Concentration per Run 2	93.108 %	95.122 %	0.003 ppb	7,744.038 ppb	7,170.675 ppb	6.640 ppb	3,982.443 ppb	23,271.179 ppb	93.895 %
Concentration per Run 3	93.825 %	98.103 %	0.000 ppb	7,615.837 ppb	7,078.399 ppb	5.427 ppb	3,917.240 ppb	22,723.535 ppb	94.866 %
Concentration RSD	0.4 %	4.3 %	81.2 %	3.0 %	3.4 %	13.4 %	3.6 %	3.4 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.008 ppb	0.211 ppb	0.120 ppb	-0.235 ppb	0.030 ppb	0.078 ppb	0.016 ppb	6.680 ppb	94.387 %
Concentration per Run 1	0.009 ppb	0.226 ppb	0.055 ppb	-0.600 ppb	0.029 ppb	0.119 ppb	0.002 ppb	6.556 ppb	93.876 %
Concentration per Run 2	0.003 ppb	0.177 ppb	0.200 ppb	0.017 ppb	0.028 ppb	0.024 ppb	0.027 ppb	6.639 ppb	94.019 %
Concentration per Run 3	0.010 ppb	0.230 ppb	0.106 ppb	-0.121 ppb	0.032 ppb	0.092 ppb	0.019 ppb	6.846 ppb	95.266 %
Concentration RSD	47.7 %	14.0 %	61.1 %	138.2 %	7.1 %	62.8 %	80.6 %	2.2 %	0.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.052 ppb	0.911 ppb	104.159 ppb	0.274 ppb	89.892 %	0.011 ppb	0.007 ppb	92.600 %	0.380 ppb
Concentration per Run 1	0.015 ppb	0.645 ppb	103.197 ppb	0.205 ppb	89.236 %	0.009 ppb	0.008 ppb	92.724 %	0.351 ppb
Concentration per Run 2	0.074 ppb	1.159 ppb	104.637 ppb	0.262 ppb	90.316 %	0.012 ppb	-0.003 ppb	92.890 %	0.381 ppb
Concentration per Run 3	0.067 ppb	0.928 ppb	104.642 ppb	0.355 ppb	90.124 %	0.011 ppb	0.016 ppb	92.187 %	0.408 ppb
Concentration RSD	61.5 %	28.3 %	0.8 %	27.6 %	0.6 %	16.2 %	138.8 %	0.4 %	7.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	12.146 ppb	94.653 %	95.005 %	0.030 ppb	0.033 ppb	88.132 %
Concentration per Run 1	11.715 ppb	92.684 %	93.358 %	0.016 ppb	0.032 ppb	86.953 %
Concentration per Run 2	12.233 ppb	94.523 %	95.470 %	0.033 ppb	0.032 ppb	88.288 %
Concentration per Run 3	12.490 ppb	96.754 %	96.188 %	0.041 ppb	0.035 ppb	89.156 %
Concentration RSD	3.2 %	2.2 %	1.5 %	41.6 %	5.1 %	1.3 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 22 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/13/2023 2:51:54 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.714 %	97.922 %	56.939 ppb	5,639.575 ppb	5,638.191 ppb	61.627 ppb	5,675.413 ppb	5,715.828 ppb	98.132 %
Concentration per Run 1	93.424 %	88.076 %	57.282 ppb	6,133.508 ppb	6,122.856 ppb	62.510 ppb	5,969.706 ppb	5,930.499 ppb	98.282 %
Concentration per Run 2	94.301 %	104.336 %	55.912 ppb	5,307.140 ppb	5,329.496 ppb	57.573 ppb	5,432.160 ppb	5,584.702 ppb	98.169 %
Concentration per Run 3	93.416 %	101.355 %	57.621 ppb	5,478.078 ppb	5,462.220 ppb	64.797 ppb	5,624.373 ppb	5,632.285 ppb	97.946 %
Recovery Percentage 1			94.898 %	93.993 %	93.970 %	102.711 %	94.590 %	95.264 %	
Concentration RSD	0.5 %	8.8 %	1.6 %	7.7 %	7.5 %	6.0 %	4.8 %	3.3 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	55.583 ppb	55.582 ppb	57.515 ppb	5,637.216 ppb	56.467 ppb	56.705 ppb	57.437 ppb	59.058 ppb	96.310 %
Concentration per Run 1	58.019 ppb	58.608 ppb	59.613 ppb	5,944.331 ppb	58.878 ppb	59.325 ppb	59.404 ppb	61.535 ppb	92.807 %
Concentration per Run 2	53.805 ppb	53.426 ppb	55.377 ppb	5,440.793 ppb	53.904 ppb	54.401 ppb	56.139 ppb	57.125 ppb	100.114 %
Concentration per Run 3	54.925 ppb	54.713 ppb	57.556 ppb	5,526.523 ppb	56.618 ppb	56.391 ppb	56.768 ppb	58.513 ppb	96.009 %
Recovery Percentage 1	92.638 %	92.637 %	95.859 %	93.954 %	94.112 %	94.509 %	95.728 %	98.430 %	
Concentration RSD	3.9 %	4.9 %	3.7 %	4.8 %	4.4 %	4.4 %	3.0 %	3.8 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.379 ppb	61.063 ppb	54.542 ppb	59.027 ppb	92.493 %	57.952 ppb	58.172 ppb	93.239 %	58.191 ppb
Concentration per Run 1	59.203 ppb	61.516 ppb	54.427 ppb	57.754 ppb	91.065 %	58.033 ppb	57.943 ppb	92.035 %	57.989 ppb
Concentration per Run 2	57.541 ppb	58.494 ppb	54.722 ppb	57.606 ppb	92.995 %	57.515 ppb	58.192 ppb	93.758 %	58.108 ppb
Concentration per Run 3	58.392 ppb	63.177 ppb	54.478 ppb	61.721 ppb	93.419 %	58.309 ppb	58.381 ppb	93.925 %	58.476 ppb
Recovery Percentage 1	97.298 %	101.771 %	90.904 %	98.378 %		96.587 %	96.953 %		96.985 %
Concentration RSD	1.4 %	3.9 %	0.3 %	4.0 %	1.4 %	0.7 %	0.4 %	1.1 %	0.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.333 ppb	94.233 %	94.432 %	57.991 ppb	56.690 ppb	91.215 %
Concentration per Run 1	59.536 ppb	92.830 %	94.049 %	56.720 ppb	56.343 ppb	90.442 %
Concentration per Run 2	56.623 ppb	94.965 %	93.664 %	57.970 ppb	56.815 ppb	91.692 %
Concentration per Run 3	58.840 ppb	94.902 %	95.584 %	59.284 ppb	56.913 ppb	91.510 %
Recovery Percentage 1	97.221 %			96.652 %	94.484 %	
Concentration RSD	2.6 %	1.3 %	1.1 %	2.2 %	0.5 %	0.7 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 23 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/13/2023 2:56:26 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.270 %	102.078 %	0.003 ppb	-4.555 ppb	-1.797 ppb	-0.973 ppb	-10.591 ppb	-11.720 ppb	95.550 %
Concentration per Run 1	94.074 %	102.168 %	0.000 ppb	-4.754 ppb	-1.032 ppb	-0.873 ppb	-10.336 ppb	-9.333 ppb	94.295 %
Concentration per Run 2	95.146 %	103.252 %	0.010 ppb	-5.213 ppb	-1.249 ppb	-1.116 ppb	-10.035 ppb	-11.068 ppb	97.018 %
Concentration per Run 3	96.591 %	100.813 %	-0.002 ppb	-3.697 ppb	-3.110 ppb	-0.929 ppb	-11.402 ppb	-14.758 ppb	95.335 %
Recovery Percentage 1			0.543 %	-4.555 %	-2.567 %	-9.726 %	-10.591 %	-11.720 %	
Concentration RSD	1.3 %	1.2 %	239.8 %	17.1 %	63.6 %	13.1 %	6.8 %	23.6 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.019 ppb	-0.029 ppb	-0.206 ppb	-1.620 ppb	0.005 ppb	-0.069 ppb	-0.040 ppb	-0.729 ppb	99.656 %
Concentration per Run 1	0.006 ppb	-0.020 ppb	-0.261 ppb	-1.598 ppb	0.014 ppb	-0.101 ppb	-0.037 ppb	-0.745 ppb	100.792 %
Concentration per Run 2	0.014 ppb	-0.031 ppb	-0.226 ppb	-0.693 ppb	0.007 ppb	-0.041 ppb	-0.048 ppb	-0.730 ppb	99.679 %
Concentration per Run 3	0.038 ppb	-0.037 ppb	-0.131 ppb	-2.571 ppb	-0.005 ppb	-0.065 ppb	-0.036 ppb	-0.713 ppb	98.496 %
Recovery Percentage 1	0.389 %	-2.914 %	-20.597 %	-3.241 %	1.069 %	-3.437 %	-3.998 %	-14.587 %	
Concentration RSD	83.9 %	29.7 %	32.8 %	58.0 %	172.5 %	44.3 %	16.6 %	2.2 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.244 ppb	1.743 ppb	0.004 ppb	0.933 ppb	97.743 %	0.005 ppb	-0.008 ppb	98.268 %	0.248 ppb
Concentration per Run 1	0.244 ppb	1.547 ppb	0.007 ppb	0.784 ppb	96.132 %	0.004 ppb	-0.004 ppb	98.238 %	0.227 ppb
Concentration per Run 2	0.292 ppb	1.929 ppb	-0.002 ppb	0.980 ppb	98.667 %	0.009 ppb	-0.010 ppb	97.912 %	0.260 ppb
Concentration per Run 3	0.195 ppb	1.752 ppb	0.007 ppb	1.035 ppb	98.429 %	0.001 ppb	-0.010 ppb	98.653 %	0.258 ppb
Recovery Percentage 1	48.711 %	34.855 %	0.037 %	46.633 %		1.159 %	-3.870 %		6.204 %
Concentration RSD	20.0 %	11.0 %	136.0 %	14.2 %	1.4 %	82.0 %	45.5 %	0.4 %	7.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.013 ppb	96.638 %	96.972 %	0.357 ppb	0.000 ppb	96.921 %
Concentration per Run 1	-0.055 ppb	95.319 %	95.911 %	0.351 ppb	-0.001 ppb	96.951 %
Concentration per Run 2	0.024 ppb	96.944 %	97.250 %	0.403 ppb	0.003 ppb	97.060 %
Concentration per Run 3	-0.009 ppb	97.651 %	97.753 %	0.317 ppb	0.000 ppb	96.751 %
Recovery Percentage 1	-2.692 %			35.676 %	0.034 %	
Concentration RSD	296.9 %	1.2 %	1.0 %	12.2 %	610.8 %	0.2 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 24 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2344357-02 6020TL Rack 1
 Analysis started at: 8/13/2023 3:06:54 PM Vial 48

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.853 %	90.515 %	0.015 ppb	128,470.736 ppb	7,317.621 ppb	2.510 ppb	1,343.020 ppb	32,547.563 ppb	96.286 %
Concentration per Run 1	86.080 %	89.431 %	0.021 ppb	128,337.077 ppb	7,394.167 ppb	3.135 ppb	1,329.863 ppb	31,790.966 ppb	95.826 %
Concentration per Run 2	86.591 %	95.122 %	0.017 ppb	121,669.045 ppb	6,890.399 ppb	2.090 ppb	1,326.623 ppb	32,504.968 ppb	96.275 %
Concentration per Run 3	87.889 %	86.992 %	0.008 ppb	135,406.085 ppb	7,668.296 ppb	2.305 ppb	1,372.572 ppb	33,346.756 ppb	96.758 %
Concentration RSD	1.1 %	4.6 %	45.9 %	5.3 %	5.4 %	22.0 %	1.9 %	2.4 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.077 ppb	0.054 ppb	8,277.304 ppb	3,894.756 ppb	0.028 ppb	0.119 ppb	0.464 ppb	0.449 ppb	87.843 %
Concentration per Run 1	0.080 ppb	0.046 ppb	8,368.038 ppb	3,923.478 ppb	0.029 ppb	0.170 ppb	0.494 ppb	0.350 ppb	83.203 %
Concentration per Run 2	0.114 ppb	0.070 ppb	8,392.999 ppb	3,888.998 ppb	0.022 ppb	0.065 ppb	0.498 ppb	0.503 ppb	87.340 %
Concentration per Run 3	0.038 ppb	0.046 ppb	8,070.876 ppb	3,871.794 ppb	0.034 ppb	0.123 ppb	0.400 ppb	0.495 ppb	92.985 %
Concentration RSD	48.8 %	25.5 %	2.2 %	0.7 %	20.9 %	44.0 %	11.9 %	19.1 %	5.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.163 ppb	0.158 ppb	99.655 ppb	0.246 ppb	81.973 %	0.002 ppb	0.008 ppb	85.999 %	0.163 ppb
Concentration per Run 1	0.167 ppb	0.247 ppb	99.348 ppb	0.180 ppb	78.968 %	-0.001 ppb	0.010 ppb	82.949 %	0.133 ppb
Concentration per Run 2	0.134 ppb	0.113 ppb	99.960 ppb	0.276 ppb	82.479 %	0.001 ppb	0.003 ppb	85.278 %	0.198 ppb
Concentration per Run 3	0.188 ppb	0.114 ppb	99.657 ppb	0.283 ppb	84.473 %	0.007 ppb	0.011 ppb	89.769 %	0.157 ppb
Concentration RSD	16.7 %	48.9 %	0.3 %	23.3 %	3.4 %	185.9 %	58.5 %	4.0 %	20.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	337.864 ppb	89.415 %	91.184 %	0.082 ppb	0.020 ppb	78.353 %
Concentration per Run 1	329.398 ppb	84.404 %	86.894 %	0.093 ppb	0.018 ppb	76.115 %
Concentration per Run 2	343.517 ppb	91.030 %	92.279 %	0.089 ppb	0.023 ppb	78.781 %
Concentration per Run 3	340.677 ppb	92.811 %	94.380 %	0.065 ppb	0.018 ppb	80.164 %
Concentration RSD	2.2 %	5.0 %	4.2 %	18.3 %	15.2 %	2.6 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 25 User name ALPHALAB\la2-icpmsq Comment <Comment>
 Analysis label: L2344357-03 6020TL Rack 1
 Analysis started at: 8/13/2023 3:11:24 PM Vial 49

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.405 %	96.929 %	0.858 ppb	45,758.683 ppb	3,612.660 ppb	5,046.417 ppb	7,985.746 ppb	13,422.798 ppb	104.527 %
Concentration per Run 1	90.514 %	98.916 %	0.847 ppb	44,610.233 ppb	3,475.185 ppb	4,754.724 ppb	7,557.932 ppb	12,568.419 ppb	103.707 %
Concentration per Run 2	91.030 %	95.664 %	0.858 ppb	46,372.854 ppb	3,674.413 ppb	5,229.955 ppb	8,128.834 ppb	14,101.722 ppb	105.272 %
Concentration per Run 3	92.671 %	96.206 %	0.867 ppb	46,292.961 ppb	3,688.381 ppb	5,154.571 ppb	8,270.473 ppb	13,598.252 ppb	104.603 %
Concentration RSD	1.2 %	1.8 %	1.2 %	2.2 %	3.3 %	5.1 %	4.7 %	5.8 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	17.825 ppb	69.890 ppb	1,692.316 ppb	14,604.923 ppb	5.040 ppb	40.759 ppb	122.189 ppb	456.274 ppb	97.395 %
Concentration per Run 1	17.100 ppb	67.402 ppb	1,644.584 ppb	14,089.837 ppb	4.914 ppb	39.923 ppb	118.194 ppb	438.811 ppb	99.294 %
Concentration per Run 2	18.096 ppb	72.119 ppb	1,725.662 ppb	14,983.434 ppb	5.204 ppb	41.741 ppb	121.950 ppb	465.435 ppb	94.903 %
Concentration per Run 3	18.278 ppb	70.150 ppb	1,706.701 ppb	14,741.497 ppb	5.003 ppb	40.614 ppb	126.423 ppb	464.577 ppb	97.988 %
Concentration RSD	3.6 %	3.4 %	2.5 %	3.2 %	2.9 %	2.3 %	3.4 %	3.3 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	9.472 ppb	5.876 ppb	47.285 ppb	5.963 ppb	89.750 %	1.664 ppb	0.365 ppb	95.470 %	1.260 ppb
Concentration per Run 1	9.272 ppb	5.623 ppb	46.254 ppb	5.818 ppb	88.566 %	1.708 ppb	0.393 ppb	94.518 %	1.221 ppb
Concentration per Run 2	9.739 ppb	5.990 ppb	48.153 ppb	5.966 ppb	89.526 %	1.629 ppb	0.374 ppb	95.652 %	1.313 ppb
Concentration per Run 3	9.404 ppb	6.014 ppb	47.448 ppb	6.103 ppb	91.159 %	1.655 ppb	0.328 ppb	96.241 %	1.247 ppb
Concentration RSD	2.5 %	3.7 %	2.0 %	2.4 %	1.5 %	2.4 %	9.1 %	0.9 %	3.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	115.377 ppb	94.443 %	92.697 %	0.063 ppb	40.553 ppb	88.331 %
Concentration per Run 1	114.423 ppb	92.773 %	91.006 %	0.049 ppb	40.388 ppb	87.149 %
Concentration per Run 2	115.208 ppb	93.529 %	92.144 %	0.070 ppb	40.644 ppb	88.320 %
Concentration per Run 3	116.501 ppb	97.025 %	94.941 %	0.069 ppb	40.625 ppb	89.524 %
Concentration RSD	0.9 %	2.4 %	2.2 %	19.2 %	0.4 %	1.3 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 26 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2344357-04 6020TL Rack 1
 Analysis started at: 8/13/2023 3:16:56 PM Vial 50

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.895 %	91.418 %	0.837 ppb	46,479.960 ppb	3,831.197 ppb	5,509.778 ppb	8,279.991 ppb	13,953.923 ppb	105.119 %
Concentration per Run 1	93.810 %	83.469 %	0.887 ppb	48,176.203 ppb	3,956.034 ppb	5,713.053 ppb	8,514.140 ppb	14,338.401 ppb	105.862 %
Concentration per Run 2	91.856 %	97.832 %	0.818 ppb	44,365.649 ppb	3,691.391 ppb	5,270.674 ppb	8,000.012 ppb	13,267.009 ppb	104.599 %
Concentration per Run 3	93.018 %	92.954 %	0.807 ppb	46,898.028 ppb	3,846.168 ppb	5,545.605 ppb	8,325.822 ppb	14,256.360 ppb	104.896 %
Concentration RSD	1.1 %	8.0 %	5.2 %	4.2 %	3.5 %	4.1 %	3.1 %	4.3 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	18.662 ppb	72.617 ppb	1,631.855 ppb	14,701.944 ppb	5.139 ppb	42.347 ppb	131.805 ppb	475.448 ppb	99.300 %
Concentration per Run 1	18.519 ppb	73.041 ppb	1,634.856 ppb	14,625.064 ppb	5.267 ppb	42.294 ppb	130.655 ppb	473.085 ppb	97.680 %
Concentration per Run 2	18.723 ppb	71.730 ppb	1,600.193 ppb	14,473.893 ppb	5.051 ppb	41.080 ppb	131.390 ppb	468.590 ppb	100.800 %
Concentration per Run 3	18.744 ppb	73.081 ppb	1,660.518 ppb	15,006.874 ppb	5.098 ppb	43.667 ppb	133.370 ppb	484.668 ppb	99.418 %
Concentration RSD	0.7 %	1.1 %	1.9 %	1.9 %	2.2 %	3.1 %	1.1 %	1.7 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.222 ppb	5.948 ppb	47.318 ppb	5.859 ppb	88.931 %	1.727 ppb	0.436 ppb	94.429 %	1.334 ppb
Concentration per Run 1	10.249 ppb	5.935 ppb	46.773 ppb	5.868 ppb	87.568 %	1.728 ppb	0.440 ppb	91.216 %	1.288 ppb
Concentration per Run 2	10.195 ppb	5.685 ppb	47.063 ppb	5.802 ppb	88.622 %	1.711 ppb	0.444 ppb	95.393 %	1.361 ppb
Concentration per Run 3	10.220 ppb	6.223 ppb	48.118 ppb	5.906 ppb	90.602 %	1.743 ppb	0.424 ppb	96.678 %	1.354 ppb
Concentration RSD	0.3 %	4.5 %	1.5 %	0.9 %	1.7 %	0.9 %	2.4 %	3.0 %	3.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	119.383 ppb	93.741 %	92.078 %	0.060 ppb	39.409 ppb	87.395 %
Concentration per Run 1	121.291 ppb	91.241 %	89.489 %	0.047 ppb	38.969 ppb	85.709 %
Concentration per Run 2	120.364 ppb	94.789 %	92.972 %	0.067 ppb	39.833 ppb	86.990 %
Concentration per Run 3	116.495 ppb	95.194 %	93.775 %	0.065 ppb	39.425 ppb	89.486 %
Concentration RSD	2.1 %	2.3 %	2.5 %	18.5 %	1.1 %	2.2 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 27 User name ALPHALAB\la2-icpmsq Comment <Comment>
 Analysis label: L2344357-05 6020TL Rack 1
 Analysis started at: 8/13/2023 3:21:23 PM Vial 51

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.277 %	83.017 %	0.274 ppb	505,932.931 ppb	18,278.614 ppb	88.263 ppb	3,576.873 ppb	70,557.661 ppb	84.880 %
Concentration per Run 1	74.994 %	79.404 %	0.276 ppb	520,464.247 ppb	18,660.581 ppb	88.678 ppb	3,556.603 ppb	69,915.353 ppb	85.188 %
Concentration per Run 2	75.565 %	89.973 %	0.282 ppb	482,831.821 ppb	17,238.991 ppb	83.129 ppb	3,456.818 ppb	69,623.135 ppb	85.793 %
Concentration per Run 3	75.271 %	79.675 %	0.263 ppb	514,502.724 ppb	18,936.271 ppb	92.980 ppb	3,717.198 ppb	72,134.495 ppb	83.661 %
Concentration RSD	0.4 %	7.3 %	3.5 %	4.0 %	5.0 %	5.6 %	3.7 %	1.9 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.937 ppb	4.054 ppb	29,302.433 ppb	7,355.236 ppb	18.959 ppb	303.285 ppb	0.876 ppb	6.219 ppb	73.352 %
Concentration per Run 1	0.974 ppb	4.024 ppb	28,917.574 ppb	7,446.521 ppb	19.111 ppb	301.281 ppb	0.925 ppb	5.964 ppb	72.500 %
Concentration per Run 2	0.981 ppb	4.060 ppb	29,076.114 ppb	7,238.672 ppb	18.631 ppb	299.138 ppb	0.902 ppb	6.566 ppb	72.879 %
Concentration per Run 3	0.856 ppb	4.078 ppb	29,913.610 ppb	7,380.515 ppb	19.137 ppb	309.436 ppb	0.801 ppb	6.127 ppb	74.678 %
Concentration RSD	7.5 %	0.7 %	1.8 %	1.4 %	1.5 %	1.8 %	7.5 %	5.0 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.019 ppb	0.314 ppb	253.219 ppb	0.599 ppb	66.663 %	0.022 ppb	0.347 ppb	75.034 %	0.117 ppb
Concentration per Run 1	1.089 ppb	0.255 ppb	251.083 ppb	0.577 ppb	65.221 %	0.024 ppb	0.344 ppb	74.110 %	0.101 ppb
Concentration per Run 2	1.089 ppb	0.258 ppb	256.283 ppb	0.553 ppb	67.121 %	0.028 ppb	0.355 ppb	74.836 %	0.117 ppb
Concentration per Run 3	0.881 ppb	0.429 ppb	252.290 ppb	0.667 ppb	67.648 %	0.015 ppb	0.341 ppb	76.157 %	0.133 ppb
Concentration RSD	11.8 %	31.7 %	1.1 %	10.1 %	1.9 %	31.2 %	2.1 %	1.4 %	13.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	23.549 ppb	79.678 %	81.314 %	0.020 ppb	0.180 ppb	64.807 %
Concentration per Run 1	22.946 ppb	77.888 %	78.757 %	0.011 ppb	0.188 ppb	63.817 %
Concentration per Run 2	24.479 ppb	80.066 %	82.760 %	0.025 ppb	0.165 ppb	65.170 %
Concentration per Run 3	23.223 ppb	81.080 %	82.424 %	0.025 ppb	0.188 ppb	65.435 %
Concentration RSD	3.5 %	2.0 %	2.7 %	39.7 %	7.6 %	1.3 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 28 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2344357-06 6020TL Rack 1
 Analysis started at: 8/13/2023 3:25:51 PM Vial 52

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.715 %	92.141 %	1.524 ppb	238,761.456 ppb	6,314.104 ppb	885.546 ppb	2,133.879 ppb	22,973.830 ppb	95.189 %
Concentration per Run 1	88.264 %	86.721 %	1.595 ppb	245,033.688 ppb	6,455.729 ppb	908.403 ppb	2,186.140 ppb	23,465.421 ppb	93.804 %
Concentration per Run 2	88.399 %	94.851 %	1.463 ppb	233,301.746 ppb	6,234.080 ppb	877.588 ppb	2,075.739 ppb	22,299.896 ppb	96.746 %
Concentration per Run 3	86.482 %	94.851 %	1.515 ppb	237,948.933 ppb	6,252.504 ppb	870.647 ppb	2,139.757 ppb	23,156.174 ppb	95.017 %
Concentration RSD	1.2 %	5.1 %	4.3 %	2.5 %	1.9 %	2.3 %	2.6 %	2.6 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.283 ppb	3.988 ppb	7,231.177 ppb	6,822.978 ppb	15.181 ppb	67.351 ppb	1,078.716 ppb	564.156 ppb	86.129 %
Concentration per Run 1	0.246 ppb	3.971 ppb	7,085.758 ppb	6,799.214 ppb	15.379 ppb	67.830 ppb	1,084.118 ppb	566.103 ppb	84.583 %
Concentration per Run 2	0.246 ppb	4.064 ppb	7,170.336 ppb	6,766.605 ppb	14.741 ppb	66.577 ppb	1,075.120 ppb	556.686 ppb	87.441 %
Concentration per Run 3	0.357 ppb	3.930 ppb	7,437.438 ppb	6,903.116 ppb	15.422 ppb	67.645 ppb	1,076.911 ppb	569.680 ppb	86.364 %
Concentration RSD	22.7 %	1.7 %	2.5 %	1.0 %	2.5 %	1.0 %	0.4 %	1.2 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.798 ppb	4.770 ppb	82.632 ppb	1.780 ppb	76.827 %	0.122 ppb	2.031 ppb	84.761 %	0.075 ppb
Concentration per Run 1	1.650 ppb	4.758 ppb	82.031 ppb	1.596 ppb	74.709 %	0.124 ppb	1.942 ppb	82.488 %	0.052 ppb
Concentration per Run 2	1.835 ppb	5.062 ppb	82.478 ppb	1.869 ppb	76.786 %	0.130 ppb	2.002 ppb	85.481 %	0.071 ppb
Concentration per Run 3	1.908 ppb	4.491 ppb	83.386 ppb	1.874 ppb	78.987 %	0.111 ppb	2.150 ppb	86.314 %	0.101 ppb
Concentration RSD	7.4 %	6.0 %	0.8 %	8.9 %	2.8 %	8.1 %	5.3 %	2.4 %	33.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	30.847 ppb	87.630 %	87.690 %	0.023 ppb	0.218 ppb	73.148 %
Concentration per Run 1	30.479 ppb	85.007 %	85.352 %	0.011 ppb	0.209 ppb	71.764 %
Concentration per Run 2	30.741 ppb	88.669 %	89.065 %	0.025 ppb	0.226 ppb	72.722 %
Concentration per Run 3	31.321 ppb	89.215 %	88.655 %	0.033 ppb	0.219 ppb	74.959 %
Concentration RSD	1.4 %	2.6 %	2.3 %	46.8 %	3.9 %	2.2 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 29 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2343980-03 6020TL Rack 1
 Analysis started at: 8/13/2023 3:30:19 PM Vial 38

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.470 %	85.817 %	0.002 ppb	456,853.561 ppb	40,090.598 ppb	9.732 ppb	13,074.779 ppb	113,912.031 ppb	79.816 %
Concentration per Run 1	77.360 %	90.515 %	0.004 ppb	425,355.773 ppb	37,316.513 ppb	8.034 ppb	12,412.904 ppb	106,825.064 ppb	82.199 %
Concentration per Run 2	74.450 %	82.114 %	0.003 ppb	478,485.002 ppb	42,026.044 ppb	12.368 ppb	13,635.776 ppb	119,609.495 ppb	78.729 %
Concentration per Run 3	74.599 %	84.824 %	0.000 ppb	466,719.909 ppb	40,929.238 ppb	8.795 ppb	13,175.655 ppb	115,301.533 ppb	78.520 %
Concentration RSD	2.2 %	5.0 %	94.8 %	6.1 %	6.1 %	23.8 %	4.7 %	5.7 %	2.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.323 ppb	0.459 ppb	7,201.233 ppb	19,581.479 ppb	0.135 ppb	0.755 ppb	0.334 ppb	-0.007 ppb	76.878 %
Concentration per Run 1	0.328 ppb	0.394 ppb	6,857.812 ppb	18,841.048 ppb	0.132 ppb	0.721 ppb	0.432 ppb	-0.102 ppb	75.436 %
Concentration per Run 2	0.369 ppb	0.518 ppb	7,462.376 ppb	20,423.707 ppb	0.146 ppb	0.713 ppb	0.190 ppb	0.182 ppb	76.162 %
Concentration per Run 3	0.271 ppb	0.465 ppb	7,283.511 ppb	19,479.681 ppb	0.126 ppb	0.831 ppb	0.381 ppb	-0.102 ppb	79.035 %
Concentration RSD	15.2 %	13.6 %	4.3 %	4.1 %	7.6 %	8.7 %	38.0 %	2,245.4 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	8.937 ppb	0.165 ppb	805.311 ppb	0.464 ppb	69.063 %	0.000 ppb	-0.006 ppb	77.822 %	0.098 ppb
Concentration per Run 1	8.768 ppb	0.203 ppb	793.431 ppb	0.388 ppb	66.903 %	0.003 ppb	-0.011 ppb	75.146 %	0.088 ppb
Concentration per Run 2	9.399 ppb	0.146 ppb	815.607 ppb	0.455 ppb	70.148 %	0.000 ppb	0.002 ppb	78.855 %	0.082 ppb
Concentration per Run 3	8.645 ppb	0.144 ppb	806.894 ppb	0.550 ppb	70.139 %	-0.005 ppb	-0.009 ppb	79.465 %	0.125 ppb
Concentration RSD	4.5 %	20.3 %	1.4 %	17.5 %	2.7 %	988.5 %	114.6 %	3.0 %	23.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	744.273 ppb	81.964 %	83.592 %	0.011 ppb	0.080 ppb	65.574 %
Concentration per Run 1	741.434 ppb	78.791 %	80.747 %	0.003 ppb	0.084 ppb	63.427 %
Concentration per Run 2	742.171 ppb	83.127 %	84.049 %	0.017 ppb	0.078 ppb	65.893 %
Concentration per Run 3	749.214 ppb	83.973 %	85.981 %	0.015 ppb	0.077 ppb	67.402 %
Concentration RSD	0.6 %	3.4 %	3.2 %	65.4 %	4.5 %	3.1 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 30 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1810773-3D10 6020TL Rack: 1
 Analysis started at: 8/13/2023 3:34:47 PM Vial: 39

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.538 %	99.639 %	5.167 ppb	46,755.207 ppb	5,178.208 ppb	216.146 ppb	2,334.187 ppb	13,143.714 ppb	95.899 %
Concentration per Run 1	93.083 %	103.252 %	5.232 ppb	45,132.541 ppb	4,943.476 ppb	202.939 ppb	2,278.997 ppb	12,708.022 ppb	95.873 %
Concentration per Run 2	92.739 %	97.561 %	5.139 ppb	48,057.828 ppb	5,379.831 ppb	226.369 ppb	2,396.855 ppb	13,359.017 ppb	96.505 %
Concentration per Run 3	91.792 %	98.103 %	5.132 ppb	47,075.251 ppb	5,211.317 ppb	219.129 ppb	2,326.710 ppb	13,364.103 ppb	95.320 %
Concentration RSD	0.7 %	3.2 %	1.1 %	3.2 %	4.2 %	5.6 %	2.5 %	2.9 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	50.738 ppb	20.150 ppb	770.903 ppb	2,128.361 ppb	49.863 ppb	49.492 ppb	25.424 ppb	50.281 ppb	97.107 %
Concentration per Run 1	50.422 ppb	20.124 ppb	770.576 ppb	2,138.308 ppb	51.123 ppb	49.716 ppb	26.063 ppb	51.394 ppb	92.355 %
Concentration per Run 2	50.995 ppb	20.465 ppb	778.800 ppb	2,184.861 ppb	49.494 ppb	49.773 ppb	25.808 ppb	50.689 ppb	97.084 %
Concentration per Run 3	50.797 ppb	19.860 ppb	763.333 ppb	2,061.915 ppb	48.971 ppb	48.985 ppb	24.400 ppb	48.759 ppb	101.882 %
Concentration RSD	0.6 %	1.5 %	1.0 %	2.9 %	2.3 %	0.9 %	3.5 %	2.7 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.497 ppb	12.801 ppb	182.188 ppb	103.876 ppb	88.829 %	5.067 ppb	5.304 ppb	91.627 %	45.899 ppb
Concentration per Run 1	13.826 ppb	12.613 ppb	184.515 ppb	102.582 ppb	86.466 %	5.073 ppb	5.367 ppb	89.576 %	45.330 ppb
Concentration per Run 2	13.897 ppb	12.827 ppb	182.555 ppb	103.966 ppb	89.813 %	5.036 ppb	5.402 ppb	90.639 %	46.655 ppb
Concentration per Run 3	12.767 ppb	12.964 ppb	179.493 ppb	105.081 ppb	90.208 %	5.092 ppb	5.143 ppb	94.665 %	45.713 ppb
Concentration RSD	4.7 %	1.4 %	1.4 %	1.2 %	2.3 %	0.6 %	2.6 %	2.9 %	1.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	280.059 ppb	93.970 %	94.372 %	12.573 ppb	54.379 ppb	85.898 %
Concentration per Run 1	277.842 ppb	91.555 %	91.078 %	12.490 ppb	54.102 ppb	84.124 %
Concentration per Run 2	278.707 ppb	94.294 %	95.382 %	12.696 ppb	54.949 ppb	85.202 %
Concentration per Run 3	283.629 ppb	96.061 %	96.655 %	12.532 ppb	54.087 ppb	88.368 %
Concentration RSD	1.1 %	2.4 %	3.1 %	0.9 %	0.9 %	2.6 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 31 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: WG1810773-4D10 6020TL Rack: 1
 Analysis started at: 8/13/2023 3:39:15 PM Vial: 40

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.394 %	101.987 %	5.136 ppb	46,064.735 ppb	5,125.768 ppb	214.108 ppb	2,373.473 ppb	13,038.591 ppb	97.734 %
Concentration per Run 1	93.609 %	98.916 %	5.158 ppb	46,580.335 ppb	5,198.605 ppb	217.213 ppb	2,402.389 ppb	13,217.114 ppb	97.416 %
Concentration per Run 2	94.793 %	101.355 %	5.190 ppb	46,865.709 ppb	5,123.174 ppb	211.901 ppb	2,323.049 ppb	13,006.871 ppb	98.336 %
Concentration per Run 3	94.780 %	105.691 %	5.061 ppb	44,748.161 ppb	5,055.525 ppb	213.210 ppb	2,394.983 ppb	12,891.789 ppb	97.449 %
Concentration RSD	0.7 %	3.4 %	1.3 %	2.5 %	1.4 %	1.3 %	1.8 %	1.3 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.493 ppb	19.775 ppb	750.124 ppb	2,051.567 ppb	48.757 ppb	48.194 ppb	24.861 ppb	49.328 ppb	100.770 %
Concentration per Run 1	48.761 ppb	19.947 ppb	740.164 ppb	2,028.193 ppb	47.941 ppb	47.643 ppb	24.878 ppb	50.055 ppb	98.124 %
Concentration per Run 2	50.761 ppb	20.228 ppb	766.589 ppb	2,101.718 ppb	50.377 ppb	48.474 ppb	25.098 ppb	49.151 ppb	100.816 %
Concentration per Run 3	48.956 ppb	19.149 ppb	743.617 ppb	2,024.789 ppb	47.953 ppb	48.466 ppb	24.608 ppb	48.777 ppb	103.369 %
Concentration RSD	2.2 %	2.8 %	1.9 %	2.1 %	2.9 %	1.0 %	1.0 %	1.3 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.759 ppb	12.767 ppb	182.879 ppb	108.456 ppb	91.368 %	5.089 ppb	5.366 ppb	95.335 %	46.195 ppb
Concentration per Run 1	13.698 ppb	12.241 ppb	182.548 ppb	105.574 ppb	88.768 %	4.950 ppb	5.450 ppb	92.917 %	46.144 ppb
Concentration per Run 2	13.970 ppb	12.923 ppb	183.629 ppb	108.564 ppb	91.572 %	5.180 ppb	5.175 ppb	94.737 %	46.306 ppb
Concentration per Run 3	13.610 ppb	13.138 ppb	182.461 ppb	111.231 ppb	93.764 %	5.135 ppb	5.473 ppb	98.351 %	46.136 ppb
Concentration RSD	1.4 %	3.7 %	0.4 %	2.6 %	2.7 %	2.4 %	3.1 %	2.9 %	0.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	278.814 ppb	96.894 %	97.139 %	12.846 ppb	55.289 ppb	88.024 %
Concentration per Run 1	281.628 ppb	94.676 %	95.241 %	12.792 ppb	54.700 ppb	86.104 %
Concentration per Run 2	278.618 ppb	96.568 %	96.542 %	12.871 ppb	55.709 ppb	88.187 %
Concentration per Run 3	276.195 ppb	99.437 %	99.635 %	12.876 ppb	55.459 ppb	89.781 %
Concentration RSD	1.0 %	2.5 %	2.3 %	0.4 %	1.0 %	2.1 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 32 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1810773-5D10 6020TL Rack: 1
 Analysis started at: 8/13/2023 3:43:43 PM Vial: 41

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.360 %	102.168 %	48.707 ppb	48,907.158 ppb	9,079.248 ppb	50.200 ppb	6,253.641 ppb	16,671.201 ppb	101.619 %
Concentration per Run 1	95.439 %	104.607 %	49.070 ppb	47,452.827 ppb	8,853.255 ppb	45.855 ppb	5,960.659 ppb	15,929.147 ppb	100.794 %
Concentration per Run 2	96.767 %	100.542 %	48.643 ppb	49,845.315 ppb	9,288.748 ppb	52.580 ppb	6,511.906 ppb	17,344.514 ppb	102.961 %
Concentration per Run 3	96.875 %	101.355 %	48.407 ppb	49,423.332 ppb	9,095.742 ppb	52.165 ppb	6,288.358 ppb	16,739.943 ppb	101.101 %
Concentration RSD	0.8 %	2.1 %	0.7 %	2.6 %	2.4 %	7.5 %	4.4 %	4.3 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.109 ppb	47.107 ppb	736.257 ppb	6,735.064 ppb	47.329 ppb	47.363 ppb	46.466 ppb	47.585 ppb	102.030 %
Concentration per Run 1	46.413 ppb	45.593 ppb	719.630 ppb	6,615.596 ppb	46.650 ppb	47.182 ppb	45.378 ppb	47.081 ppb	102.339 %
Concentration per Run 2	49.800 ppb	48.279 ppb	759.405 ppb	6,868.667 ppb	48.019 ppb	48.474 ppb	46.927 ppb	48.088 ppb	99.466 %
Concentration per Run 3	48.114 ppb	47.450 ppb	729.736 ppb	6,720.928 ppb	47.317 ppb	46.434 ppb	47.092 ppb	47.587 ppb	104.283 %
Concentration RSD	3.5 %	2.9 %	2.8 %	1.9 %	1.4 %	2.2 %	2.0 %	1.1 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	49.332 ppb	49.024 ppb	128.470 ppb	55.092 ppb	91.115 %	1.708 ppb	48.491 ppb	96.494 %	49.773 ppb
Concentration per Run 1	48.486 ppb	46.752 ppb	127.001 ppb	53.146 ppb	88.947 %	1.758 ppb	48.698 ppb	93.330 %	49.638 ppb
Concentration per Run 2	50.812 ppb	50.810 ppb	130.185 ppb	55.601 ppb	91.159 %	1.674 ppb	47.778 ppb	97.919 %	49.263 ppb
Concentration per Run 3	48.697 ppb	49.510 ppb	128.223 ppb	56.529 ppb	93.239 %	1.690 ppb	48.998 ppb	98.234 %	50.417 ppb
Concentration RSD	2.6 %	4.2 %	1.3 %	3.2 %	2.4 %	2.6 %	1.3 %	2.8 %	1.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	121.080 ppb	97.310 %	97.854 %	50.715 ppb	50.327 ppb	88.438 %
Concentration per Run 1	120.046 ppb	94.697 %	95.384 %	50.270 ppb	50.250 ppb	86.135 %
Concentration per Run 2	120.900 ppb	96.911 %	96.764 %	50.844 ppb	50.234 ppb	88.658 %
Concentration per Run 3	122.294 ppb	100.322 %	101.416 %	51.031 ppb	50.496 ppb	90.522 %
Concentration RSD	0.9 %	2.9 %	3.2 %	0.8 %	0.3 %	2.5 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 33 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1810773-6D5 6020TL Rack: 1
 Analysis started at: 8/13/2023 3:48:11 PM Vial: 42

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.748 %	97.651 %	0.004 ppb	92,484.209 ppb	8,357.991 ppb	2.286 ppb	2,707.009 ppb	24,503.274 ppb	101.052 %
Concentration per Run 1	95.144 %	96.748 %	0.000 ppb	91,753.270 ppb	8,370.557 ppb	2.357 ppb	2,707.191 ppb	24,837.195 ppb	100.355 %
Concentration per Run 2	94.123 %	89.973 %	0.004 ppb	97,029.815 ppb	8,791.895 ppb	2.733 ppb	2,811.500 ppb	25,332.213 ppb	102.787 %
Concentration per Run 3	94.978 %	106.233 %	0.007 ppb	88,669.543 ppb	7,911.521 ppb	1.769 ppb	2,602.335 ppb	23,340.414 ppb	100.015 %
Concentration RSD	0.6 %	8.4 %	95.6 %	4.6 %	5.3 %	21.3 %	3.9 %	4.2 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.090 ppb	0.078 ppb	1,431.374 ppb	3,983.911 ppb	0.029 ppb	0.110 ppb	0.045 ppb	-0.369 ppb	98.882 %
Concentration per Run 1	0.104 ppb	0.090 ppb	1,442.449 ppb	4,017.570 ppb	0.042 ppb	0.103 ppb	0.020 ppb	-0.337 ppb	94.753 %
Concentration per Run 2	0.017 ppb	0.062 ppb	1,447.168 ppb	4,008.093 ppb	0.024 ppb	0.154 ppb	0.067 ppb	-0.412 ppb	100.634 %
Concentration per Run 3	0.150 ppb	0.081 ppb	1,404.504 ppb	3,926.071 ppb	0.020 ppb	0.074 ppb	0.047 ppb	-0.357 ppb	101.258 %
Concentration RSD	74.7 %	18.4 %	1.6 %	1.3 %	40.6 %	36.7 %	53.4 %	10.6 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.253 ppb	1.540 ppb	151.808 ppb	1.662 ppb	90.354 %	0.000 ppb	0.001 ppb	95.607 %	0.515 ppb
Concentration per Run 1	2.395 ppb	1.584 ppb	152.940 ppb	1.286 ppb	87.075 %	0.000 ppb	-0.001 ppb	93.190 %	0.451 ppb
Concentration per Run 2	2.288 ppb	1.491 ppb	150.801 ppb	1.798 ppb	91.520 %	-0.001 ppb	0.005 ppb	96.017 %	0.557 ppb
Concentration per Run 3	2.076 ppb	1.546 ppb	151.685 ppb	1.903 ppb	92.469 %	0.001 ppb	-0.001 ppb	97.614 %	0.537 ppb
Concentration RSD	7.2 %	3.0 %	0.7 %	19.9 %	3.2 %	1,343.2 %	386.6 %	2.3 %	10.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	145.705 ppb	99.463 %	100.360 %	0.313 ppb	0.044 ppb	86.837 %
Concentration per Run 1	145.384 ppb	96.379 %	97.765 %	0.320 ppb	0.042 ppb	84.479 %
Concentration per Run 2	145.299 ppb	100.402 %	99.995 %	0.353 ppb	0.047 ppb	86.786 %
Concentration per Run 3	146.433 ppb	101.609 %	103.321 %	0.267 ppb	0.044 ppb	89.246 %
Concentration RSD	0.4 %	2.8 %	2.8 %	13.9 %	5.5 %	2.7 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 34 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/13/2023 3:52:39 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.964 %	109.666 %	57.511 ppb	5,521.866 ppb	5,632.158 ppb	57.777 ppb	5,819.644 ppb	5,721.343 ppb	104.654 %
Concentration per Run 1	101.033 %	98.374 %	56.929 ppb	5,922.520 ppb	6,013.070 ppb	61.686 ppb	6,139.636 ppb	5,972.493 ppb	106.402 %
Concentration per Run 2	101.307 %	115.989 %	57.717 ppb	5,343.627 ppb	5,468.237 ppb	55.443 ppb	5,555.869 ppb	5,569.738 ppb	104.721 %
Concentration per Run 3	100.553 %	114.634 %	57.888 ppb	5,299.452 ppb	5,415.168 ppb	56.203 ppb	5,763.428 ppb	5,621.797 ppb	102.839 %
Recovery Percentage 1			95.852 %	92.031 %	93.869 %	96.296 %	96.994 %	95.356 %	
Concentration RSD	0.4 %	8.9 %	0.9 %	6.3 %	5.9 %	5.9 %	5.1 %	3.8 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	54.027 ppb	55.475 ppb	57.734 ppb	5,624.815 ppb	55.894 ppb	55.321 ppb	56.580 ppb	57.960 ppb	106.877 %
Concentration per Run 1	55.712 ppb	56.129 ppb	57.783 ppb	5,642.967 ppb	56.073 ppb	55.397 ppb	57.184 ppb	58.224 ppb	105.628 %
Concentration per Run 2	51.919 ppb	55.374 ppb	57.719 ppb	5,607.863 ppb	56.529 ppb	55.585 ppb	56.181 ppb	58.052 ppb	107.369 %
Concentration per Run 3	54.450 ppb	54.921 ppb	57.702 ppb	5,623.616 ppb	55.079 ppb	54.980 ppb	56.376 ppb	57.603 ppb	107.635 %
Recovery Percentage 1	90.045 %	92.458 %	96.224 %	93.747 %	93.156 %	92.201 %	94.301 %	96.600 %	
Concentration RSD	3.6 %	1.1 %	0.1 %	0.3 %	1.3 %	0.6 %	0.9 %	0.6 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	57.814 ppb	61.180 ppb	56.202 ppb	60.189 ppb	99.609 %	57.249 ppb	56.945 ppb	103.161 %	57.168 ppb
Concentration per Run 1	57.696 ppb	59.163 ppb	56.362 ppb	59.701 ppb	96.495 %	57.304 ppb	56.443 ppb	99.722 %	57.596 ppb
Concentration per Run 2	57.927 ppb	60.585 ppb	56.105 ppb	58.941 ppb	100.520 %	57.217 ppb	57.341 ppb	104.227 %	57.364 ppb
Concentration per Run 3	57.820 ppb	63.790 ppb	56.139 ppb	61.924 ppb	101.813 %	57.227 ppb	57.051 ppb	105.534 %	56.543 ppb
Recovery Percentage 1	96.357 %	101.966 %	93.670 %	100.314 %		95.416 %	94.908 %		95.279 %
Concentration RSD	0.2 %	3.9 %	0.2 %	2.6 %	2.8 %	0.1 %	0.8 %	3.0 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	57.453 ppb	102.209 %	102.385 %	56.931 ppb	56.131 ppb	97.487 %
Concentration per Run 1	58.018 ppb	100.358 %	101.260 %	55.845 ppb	55.705 ppb	96.234 %
Concentration per Run 2	57.498 ppb	102.971 %	102.552 %	57.314 ppb	56.469 ppb	97.254 %
Concentration per Run 3	56.843 ppb	103.297 %	103.342 %	57.635 ppb	56.220 ppb	98.973 %
Recovery Percentage 1	95.755 %			94.886 %	93.552 %	
Concentration RSD	1.0 %	1.6 %	1.0 %	1.7 %	0.7 %	1.4 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 35 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/13/2023 3:57:11 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.606 %	105.872 %	0.004 ppb	-0.060 ppb	-1.528 ppb	-0.691 ppb	-11.034 ppb	-7.889 ppb	104.377 %
Concentration per Run 1	100.741 %	108.943 %	0.000 ppb	-2.629 ppb	-2.761 ppb	-0.892 ppb	-11.611 ppb	-6.481 ppb	103.901 %
Concentration per Run 2	102.762 %	107.046 %	0.005 ppb	0.529 ppb	-1.837 ppb	-0.892 ppb	-11.978 ppb	-9.606 ppb	104.977 %
Concentration per Run 3	101.316 %	101.626 %	0.006 ppb	1.920 ppb	0.013 ppb	-0.288 ppb	-9.512 ppb	-7.581 ppb	104.254 %
Recovery Percentage 1			0.700 %	-0.060 %	-2.183 %	-6.906 %	-11.034 %	-7.889 %	
Concentration RSD	1.0 %	3.6 %	84.2 %	3,879.5 %	92.4 %	50.5 %	12.1 %	20.1 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.001 ppb	-0.028 ppb	-0.100 ppb	-0.239 ppb	-0.002 ppb	-0.062 ppb	-0.034 ppb	-0.744 ppb	106.953 %
Concentration per Run 1	0.011 ppb	-0.030 ppb	-0.176 ppb	-3.072 ppb	0.008 ppb	-0.046 ppb	-0.049 ppb	-0.747 ppb	103.493 %
Concentration per Run 2	0.003 ppb	-0.024 ppb	-0.084 ppb	0.056 ppb	-0.007 ppb	-0.042 ppb	-0.028 ppb	-0.770 ppb	107.835 %
Concentration per Run 3	-0.011 ppb	-0.028 ppb	-0.040 ppb	2.299 ppb	-0.007 ppb	-0.098 ppb	-0.024 ppb	-0.715 ppb	109.533 %
Recovery Percentage 1	0.018 %	-2.763 %	-9.976 %	-0.478 %	-0.381 %	-3.123 %	-3.359 %	-14.880 %	
Concentration RSD	1,250.3 %	10.2 %	69.9 %	1,129.0 %	472.0 %	50.0 %	39.7 %	3.7 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.225 ppb	1.686 ppb	0.010 ppb	1.152 ppb	103.932 %	0.003 ppb	0.000 ppb	106.673 %	0.239 ppb
Concentration per Run 1	0.198 ppb	1.729 ppb	0.007 ppb	0.955 ppb	101.098 %	0.004 ppb	0.003 ppb	104.881 %	0.246 ppb
Concentration per Run 2	0.202 ppb	1.784 ppb	0.015 ppb	1.338 ppb	105.910 %	0.004 ppb	-0.005 ppb	107.399 %	0.239 ppb
Concentration per Run 3	0.276 ppb	1.544 ppb	0.009 ppb	1.164 ppb	104.786 %	0.001 ppb	0.001 ppb	107.740 %	0.232 ppb
Recovery Percentage 1	45.035 %	33.710 %	0.104 %	57.604 %		0.735 %	-0.036 %		5.979 %
Concentration RSD	19.5 %	7.5 %	35.9 %	16.6 %	2.4 %	62.1 %	5,670.5 %	1.5 %	3.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.018 ppb	102.766 %	102.845 %	0.376 ppb	0.000 ppb	101.306 %
Concentration per Run 1	-0.018 ppb	100.837 %	100.935 %	0.364 ppb	0.000 ppb	100.115 %
Concentration per Run 2	-0.036 ppb	102.756 %	102.959 %	0.446 ppb	0.001 ppb	101.596 %
Concentration per Run 3	-0.001 ppb	104.705 %	104.640 %	0.318 ppb	-0.001 ppb	102.208 %
Recovery Percentage 1	-3.680 %			37.609 %	-0.001 %	
Concentration RSD	95.8 %	1.9 %	1.8 %	17.3 %	11,590.9 %	1.1 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 36 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1805093-1D10 A2-6020T Rack 1
 Analysis started at: 8/13/2023 4:06:13 PM Vial 57

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.677 %	97.380 %	0.003 ppb	0.232 ppb	1.755 ppb	0.618 ppb	-7.250 ppb	-2.443 ppb	104.411 %
Concentration per Run 1	99.564 %	102.168 %	0.008 ppb	-0.447 ppb	0.057 ppb	0.618 ppb	-8.451 ppb	-5.613 ppb	103.034 %
Concentration per Run 2	101.470 %	95.393 %	-0.002 ppb	-0.247 ppb	3.410 ppb	0.462 ppb	-4.917 ppb	-5.043 ppb	103.742 %
Concentration per Run 3	103.998 %	94.580 %	0.002 ppb	1.389 ppb	1.800 ppb	0.775 ppb	-8.380 ppb	3.328 ppb	106.457 %
Concentration RSD	2.2 %	4.3 %	192.6 %	434.5 %	95.5 %	25.2 %	27.9 %	204.9 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.001 ppb	0.008 ppb	-0.049 ppb	-3.195 ppb	0.010 ppb	-0.040 ppb	-0.025 ppb	-0.342 ppb	105.108 %
Concentration per Run 1	0.005 ppb	-0.002 ppb	-0.031 ppb	-4.938 ppb	0.006 ppb	-0.005 ppb	-0.022 ppb	-0.359 ppb	105.213 %
Concentration per Run 2	-0.015 ppb	0.022 ppb	-0.102 ppb	-2.284 ppb	0.020 ppb	-0.052 ppb	-0.026 ppb	-0.376 ppb	103.950 %
Concentration per Run 3	0.013 ppb	0.004 ppb	-0.015 ppb	-2.362 ppb	0.002 ppb	-0.062 ppb	-0.027 ppb	-0.291 ppb	106.161 %
Concentration RSD	1,960.2 %	157.9 %	94.1 %	47.3 %	100.9 %	76.0 %	11.5 %	13.1 %	1.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.051 ppb	0.348 ppb	0.027 ppb	0.261 ppb	102.460 %	0.001 ppb	-0.003 ppb	104.112 %	0.166 ppb
Concentration per Run 1	0.023 ppb	0.461 ppb	0.031 ppb	0.140 ppb	99.245 %	0.001 ppb	0.000 ppb	102.762 %	0.131 ppb
Concentration per Run 2	0.043 ppb	0.187 ppb	0.033 ppb	0.279 ppb	102.036 %	0.001 ppb	0.000 ppb	102.836 %	0.200 ppb
Concentration per Run 3	0.088 ppb	0.395 ppb	0.017 ppb	0.363 ppb	106.100 %	0.002 ppb	-0.008 ppb	106.738 %	0.168 ppb
Concentration RSD	64.7 %	41.2 %	32.6 %	43.1 %	3.4 %	52.3 %	157.9 %	2.2 %	20.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.029 ppb	100.818 %	101.619 %	0.087 ppb	0.020 ppb	100.063 %
Concentration per Run 1	0.010 ppb	98.070 %	98.456 %	0.098 ppb	0.020 ppb	98.193 %
Concentration per Run 2	0.083 ppb	101.380 %	101.098 %	0.094 ppb	0.021 ppb	99.305 %
Concentration per Run 3	-0.006 ppb	103.003 %	105.304 %	0.069 ppb	0.018 ppb	102.692 %
Concentration RSD	164.1 %	2.5 %	3.4 %	17.6 %	6.6 %	2.3 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 37 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1805093-2D10 A2-6020T Rack 1
 Analysis started at: 8/13/2023 4:10:41 PM Vial 58

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.516 %	100.452 %	59.679 ppb	1,337.717 ppb	1,786.451 ppb	5,043.593 ppb	1,441.069 ppb	3,551.159 ppb	110.135 %
Concentration per Run 1	102.813 %	99.458 %	59.583 ppb	1,343.561 ppb	1,782.062 ppb	5,058.330 ppb	1,421.227 ppb	3,587.277 ppb	109.640 %
Concentration per Run 2	101.565 %	99.729 %	60.108 ppb	1,352.568 ppb	1,787.881 ppb	5,032.056 ppb	1,449.769 ppb	3,608.697 ppb	110.605 %
Concentration per Run 3	103.171 %	102.168 %	59.346 ppb	1,317.024 ppb	1,789.411 ppb	5,040.392 ppb	1,452.211 ppb	3,457.502 ppb	110.160 %
Concentration RSD	0.8 %	1.5 %	0.7 %	1.4 %	0.2 %	0.3 %	1.2 %	2.3 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	156.528 ppb	154.219 ppb	310.110 ppb	11,247.610 ppb	75.545 ppb	131.094 ppb	107.022 ppb	187.419 ppb	106.098 %
Concentration per Run 1	153.360 ppb	153.413 ppb	316.259 ppb	11,325.640 ppb	76.687 ppb	128.052 ppb	106.608 ppb	188.610 ppb	103.508 %
Concentration per Run 2	159.904 ppb	155.980 ppb	306.831 ppb	11,309.391 ppb	75.466 ppb	134.697 ppb	109.027 ppb	188.683 ppb	105.977 %
Concentration per Run 3	156.319 ppb	153.264 ppb	307.241 ppb	11,107.799 ppb	74.481 ppb	130.532 ppb	105.432 ppb	184.964 ppb	108.810 %
Concentration RSD	2.1 %	1.0 %	1.7 %	1.1 %	1.5 %	2.6 %	1.7 %	1.1 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	151.378 ppb	192.475 ppb	95.756 ppb	145.833 ppb	101.661 %	55.241 ppb	170.920 ppb	105.453 %	90.764 ppb
Concentration per Run 1	153.099 ppb	190.657 ppb	95.586 ppb	140.133 ppb	98.740 %	54.899 ppb	169.168 ppb	104.513 %	89.253 ppb
Concentration per Run 2	151.050 ppb	191.745 ppb	96.202 ppb	147.343 ppb	101.795 %	55.197 ppb	171.438 ppb	105.511 %	90.215 ppb
Concentration per Run 3	149.984 ppb	195.022 ppb	95.479 ppb	150.024 ppb	104.449 %	55.627 ppb	172.154 ppb	106.337 %	92.826 ppb
Concentration RSD	1.0 %	1.2 %	0.4 %	3.5 %	2.8 %	0.7 %	0.9 %	0.9 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	234.462 ppb	100.505 %	99.948 %	64.150 ppb	204.394 ppb	101.651 %
Concentration per Run 1	233.593 ppb	97.892 %	98.882 %	62.329 ppb	202.105 ppb	100.246 %
Concentration per Run 2	236.423 ppb	100.349 %	99.726 %	64.191 ppb	204.623 ppb	102.309 %
Concentration per Run 3	233.369 ppb	103.273 %	101.236 %	65.930 ppb	206.454 ppb	102.397 %
Concentration RSD	0.7 %	2.7 %	1.2 %	2.8 %	1.1 %	1.2 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 38 User name ALPHALAB\la2-icpmsq Comment <Comment>
 Analysis label: L2344357-07 6020TL Rack 1
 Analysis started at: 8/13/2023 4:15:11 PM Vial 53

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.799 %	103.071 %	0.453 ppb	49,830.522 ppb	4,047.400 ppb	5,816.055 ppb	2,413.747 ppb	9,529.110 ppb	108.816 %
Concentration per Run 1	99.123 %	104.878 %	0.438 ppb	48,956.221 ppb	3,917.417 ppb	5,748.697 ppb	2,376.972 ppb	9,297.192 ppb	108.472 %
Concentration per Run 2	98.174 %	98.645 %	0.479 ppb	51,913.888 ppb	4,258.434 ppb	5,969.648 ppb	2,457.124 ppb	9,693.962 ppb	108.281 %
Concentration per Run 3	99.101 %	105.691 %	0.443 ppb	48,621.458 ppb	3,966.348 ppb	5,729.819 ppb	2,407.144 ppb	9,596.177 ppb	109.695 %
Concentration RSD	0.5 %	3.7 %	5.0 %	3.6 %	4.6 %	2.3 %	1.7 %	2.2 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	10.542 ppb	66.918 ppb	1,307.139 ppb	7,162.735 ppb	6.528 ppb	44.042 ppb	45.359 ppb	85.588 ppb	102.146 %
Concentration per Run 1	10.228 ppb	65.892 ppb	1,296.867 ppb	7,097.675 ppb	6.187 ppb	44.238 ppb	45.170 ppb	85.448 ppb	100.524 %
Concentration per Run 2	10.707 ppb	67.849 ppb	1,337.480 ppb	7,320.027 ppb	6.651 ppb	44.404 ppb	46.237 ppb	86.931 ppb	102.079 %
Concentration per Run 3	10.691 ppb	67.014 ppb	1,287.071 ppb	7,070.502 ppb	6.745 ppb	43.483 ppb	44.671 ppb	84.384 ppb	103.836 %
Concentration RSD	2.6 %	1.5 %	2.0 %	1.9 %	4.6 %	1.1 %	1.8 %	1.5 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	9.922 ppb	8.282 ppb	60.837 ppb	4.009 ppb	94.618 %	0.149 ppb	0.264 ppb	99.204 %	0.411 ppb
Concentration per Run 1	9.904 ppb	8.164 ppb	60.078 ppb	3.755 ppb	94.381 %	0.148 ppb	0.245 ppb	98.869 %	0.405 ppb
Concentration per Run 2	10.310 ppb	8.712 ppb	61.264 ppb	4.123 ppb	94.602 %	0.147 ppb	0.239 ppb	97.956 %	0.393 ppb
Concentration per Run 3	9.552 ppb	7.971 ppb	61.170 ppb	4.150 ppb	94.872 %	0.151 ppb	0.308 ppb	100.787 %	0.434 ppb
Concentration RSD	3.8 %	4.6 %	1.1 %	5.5 %	0.3 %	1.3 %	14.4 %	1.5 %	5.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	103.618 ppb	99.408 %	98.310 %	0.486 ppb	10.460 ppb	91.403 %
Concentration per Run 1	100.987 ppb	97.745 %	96.499 %	0.510 ppb	10.448 ppb	89.124 %
Concentration per Run 2	105.108 ppb	99.098 %	98.118 %	0.527 ppb	10.486 ppb	91.808 %
Concentration per Run 3	104.758 ppb	101.380 %	100.313 %	0.421 ppb	10.446 ppb	93.276 %
Concentration RSD	2.2 %	1.8 %	1.9 %	11.7 %	0.2 %	2.3 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 39 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2344357-08 6020TL Rack 1
 Analysis started at: 8/13/2023 4:19:39 PM Vial 54

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.842 %	86.359 %	0.028 ppb	198,186.668 ppb	11,834.602 ppb	3.993 ppb	2,759.607 ppb	30,890.687 ppb	98.864 %
Concentration per Run 1	87.140 %	85.637 %	0.028 ppb	194,916.391 ppb	11,803.049 ppb	4.085 ppb	2,737.956 ppb	30,628.947 ppb	99.192 %
Concentration per Run 2	87.416 %	88.076 %	0.032 ppb	194,406.095 ppb	11,499.632 ppb	3.509 ppb	2,687.761 ppb	30,778.956 ppb	99.262 %
Concentration per Run 3	85.970 %	85.366 %	0.024 ppb	205,237.516 ppb	12,201.124 ppb	4.387 ppb	2,853.106 ppb	31,264.158 ppb	98.139 %
Concentration RSD	0.9 %	1.7 %	14.7 %	3.1 %	3.0 %	11.2 %	3.1 %	1.1 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.102 ppb	0.101 ppb	25,938.413 ppb	45,938.414 ppb	2.602 ppb	22.283 ppb	1.072 ppb	2,715.232 ppb	89.498 %
Concentration per Run 1	1.152 ppb	0.110 ppb	25,836.495 ppb	46,144.073 ppb	2.532 ppb	23.586 ppb	0.989 ppb	2,724.248 ppb	86.164 %
Concentration per Run 2	1.139 ppb	0.084 ppb	26,021.101 ppb	46,168.159 ppb	2.697 ppb	21.859 ppb	1.159 ppb	2,730.769 ppb	89.156 %
Concentration per Run 3	1.017 ppb	0.108 ppb	25,957.644 ppb	45,503.012 ppb	2.577 ppb	21.404 ppb	1.068 ppb	2,690.678 ppb	93.174 %
Concentration RSD	6.7 %	14.2 %	0.4 %	0.8 %	3.3 %	5.2 %	7.9 %	0.8 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.245 ppb	1.269 ppb	192.949 ppb	0.960 ppb	82.051 %	0.017 ppb	0.069 ppb	91.521 %	0.103 ppb
Concentration per Run 1	1.163 ppb	0.912 ppb	191.787 ppb	0.792 ppb	80.372 %	0.018 ppb	0.076 ppb	88.908 %	0.076 ppb
Concentration per Run 2	1.190 ppb	1.642 ppb	193.067 ppb	1.032 ppb	82.752 %	0.018 ppb	0.046 ppb	91.321 %	0.122 ppb
Concentration per Run 3	1.380 ppb	1.251 ppb	193.995 ppb	1.057 ppb	83.029 %	0.015 ppb	0.084 ppb	94.334 %	0.112 ppb
Concentration RSD	9.5 %	28.8 %	0.6 %	15.2 %	1.8 %	9.9 %	28.8 %	3.0 %	23.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	237.320 ppb	93.455 %	95.753 %	0.127 ppb	0.700 ppb	79.614 %
Concentration per Run 1	232.076 ppb	89.374 %	92.473 %	0.094 ppb	0.700 ppb	77.662 %
Concentration per Run 2	241.549 ppb	93.173 %	95.475 %	0.149 ppb	0.711 ppb	79.634 %
Concentration per Run 3	238.334 ppb	97.818 %	99.313 %	0.137 ppb	0.689 ppb	81.546 %
Concentration RSD	2.0 %	4.5 %	3.6 %	22.8 %	1.5 %	2.4 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 40 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: I2341121-02D10 A2-6020T Rack: 1
 Analysis started at: 8/13/2023 4:24:08 PM Vial: 59

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.435 %	111.021 %	0.717 ppb	11,506.439 ppb	6,210.819 ppb	10,653.270 ppb	2,430.274 ppb	3,890.409 ppb	109.233 %
Concentration per Run 1	100.611 %	112.737 %	0.741 ppb	11,308.651 ppb	6,107.048 ppb	10,422.222 ppb	2,391.711 ppb	3,717.294 ppb	109.246 %
Concentration per Run 2	102.602 %	114.363 %	0.757 ppb	11,347.581 ppb	6,051.341 ppb	10,503.636 ppb	2,395.751 ppb	3,778.192 ppb	109.369 %
Concentration per Run 3	101.092 %	105.962 %	0.654 ppb	11,863.085 ppb	6,474.068 ppb	11,033.952 ppb	2,503.360 ppb	4,175.740 ppb	109.083 %
Concentration RSD	1.0 %	4.0 %	7.7 %	2.7 %	3.7 %	3.1 %	2.6 %	6.4 %	0.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	31.421 ppb	54.000 ppb	261.133 ppb	26,208.619 ppb	7.661 ppb	24.973 ppb	193.637 ppb	239.471 ppb	106.741 %
Concentration per Run 1	30.534 ppb	53.583 ppb	258.109 ppb	26,215.333 ppb	7.734 ppb	24.533 ppb	190.160 ppb	240.084 ppb	105.383 %
Concentration per Run 2	31.160 ppb	53.332 ppb	258.016 ppb	26,326.100 ppb	7.569 ppb	25.337 ppb	196.923 ppb	239.071 ppb	106.410 %
Concentration per Run 3	32.568 ppb	55.083 ppb	267.274 ppb	26,084.426 ppb	7.679 ppb	25.048 ppb	193.826 ppb	239.258 ppb	108.430 %
Concentration RSD	3.3 %	1.8 %	2.0 %	0.5 %	1.1 %	1.6 %	1.7 %	0.2 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	20.050 ppb	8.933 ppb	46.587 ppb	3.776 ppb	97.442 %	1.297 ppb	0.944 ppb	103.317 %	1.200 ppb
Concentration per Run 1	19.634 ppb	9.142 ppb	46.492 ppb	3.614 ppb	95.733 %	1.274 ppb	0.971 ppb	101.777 %	1.196 ppb
Concentration per Run 2	20.578 ppb	9.365 ppb	46.588 ppb	3.787 ppb	97.942 %	1.319 ppb	0.893 ppb	103.045 %	1.178 ppb
Concentration per Run 3	19.938 ppb	8.292 ppb	46.682 ppb	3.927 ppb	98.652 %	1.298 ppb	0.967 ppb	105.130 %	1.226 ppb
Concentration RSD	2.4 %	6.3 %	0.2 %	4.2 %	1.6 %	1.8 %	4.6 %	1.6 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	78.165 ppb	98.588 %	98.381 %	0.189 ppb	122.809 ppb	99.676 %
Concentration per Run 1	80.193 ppb	97.654 %	96.987 %	0.159 ppb	123.254 ppb	98.140 %
Concentration per Run 2	78.375 ppb	97.473 %	97.229 %	0.203 ppb	122.613 ppb	99.981 %
Concentration per Run 3	75.927 ppb	100.639 %	100.927 %	0.205 ppb	122.559 ppb	100.906 %
Concentration RSD	2.7 %	1.8 %	2.2 %	13.7 %	0.3 %	1.4 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 41 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1805093-3D10 A2-6020T Rack 1
 Analysis started at: 8/13/2023 4:28:38 PM Vial 60

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.267 %	105.059 %	9.747 ppb	13,674.426 ppb	8,958.351 ppb	13,240.351 ppb	4,985.548 ppb	6,298.409 ppb	103.501 %
Concentration per Run 1	97.121 %	111.924 %	9.868 ppb	12,949.925 ppb	8,463.631 ppb	12,419.334 ppb	4,765.380 ppb	6,032.349 ppb	102.846 %
Concentration per Run 2	96.377 %	101.355 %	9.818 ppb	14,091.337 ppb	9,247.313 ppb	13,611.322 ppb	5,054.378 ppb	6,389.969 ppb	103.749 %
Concentration per Run 3	98.303 %	101.897 %	9.553 ppb	13,982.017 ppb	9,164.107 ppb	13,690.398 ppb	5,136.885 ppb	6,472.909 ppb	103.908 %
Concentration RSD	1.0 %	5.7 %	1.7 %	4.6 %	4.8 %	5.4 %	3.9 %	3.7 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	124.059 ppb	93.403 ppb	369.729 ppb	28,849.197 ppb	97.134 ppb	113.702 ppb	289.322 ppb	301.559 ppb	101.983 %
Concentration per Run 1	121.472 ppb	89.714 ppb	356.919 ppb	27,998.137 ppb	95.742 ppb	108.943 ppb	284.848 ppb	298.293 ppb	101.418 %
Concentration per Run 2	127.034 ppb	94.863 ppb	374.142 ppb	29,168.547 ppb	97.217 ppb	116.943 ppb	291.146 ppb	299.872 ppb	102.784 %
Concentration per Run 3	123.671 ppb	95.633 ppb	378.125 ppb	29,380.908 ppb	98.443 ppb	115.218 ppb	291.974 ppb	306.514 ppb	101.749 %
Concentration RSD	2.3 %	3.4 %	3.0 %	2.6 %	1.4 %	3.7 %	1.3 %	1.4 %	0.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	48.289 ppb	43.302 ppb	305.993 ppb	243.543 ppb	92.448 %	10.960 ppb	11.229 ppb	98.459 %	58.567 ppb
Concentration per Run 1	48.486 ppb	42.200 ppb	304.776 ppb	237.574 ppb	91.197 %	10.792 ppb	11.032 ppb	97.394 %	58.359 ppb
Concentration per Run 2	48.007 ppb	41.860 ppb	305.824 ppb	245.490 ppb	92.689 %	11.166 ppb	11.217 ppb	98.616 %	58.406 ppb
Concentration per Run 3	48.374 ppb	45.845 ppb	307.380 ppb	247.567 ppb	93.459 %	10.921 ppb	11.438 ppb	99.366 %	58.935 ppb
Concentration RSD	0.5 %	5.1 %	0.4 %	2.2 %	1.2 %	1.7 %	1.8 %	1.0 %	0.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	444.282 ppb	94.713 %	94.296 %	26.574 ppb	273.816 ppb	95.460 %
Concentration per Run 1	441.164 ppb	92.925 %	92.339 %	25.791 ppb	269.513 ppb	95.691 %
Concentration per Run 2	446.337 ppb	94.129 %	93.649 %	26.582 ppb	275.629 ppb	94.892 %
Concentration per Run 3	445.344 ppb	97.083 %	96.901 %	27.349 ppb	276.307 ppb	95.797 %
Concentration RSD	0.6 %	2.3 %	2.5 %	2.9 %	1.4 %	0.5 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 42 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1805093-4D10 A2-6020T Rack 2
 Analysis started at: 8/13/2023 4:33:09 PM Vial 1

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.892 %	98.916 %	9.681 ppb	13,991.060 ppb	9,224.447 ppb	13,389.818 ppb	5,134.059 ppb	6,486.906 ppb	101.089 %
Concentration per Run 1	96.007 %	91.870 %	9.771 ppb	14,729.431 ppb	9,702.018 ppb	14,050.011 ppb	5,480.797 ppb	6,852.926 ppb	100.830 %
Concentration per Run 2	96.251 %	100.542 %	9.740 ppb	13,883.021 ppb	9,073.715 ppb	13,200.984 ppb	5,016.346 ppb	6,357.066 ppb	100.837 %
Concentration per Run 3	95.418 %	104.336 %	9.532 ppb	13,360.728 ppb	8,897.607 ppb	12,918.459 ppb	4,905.034 ppb	6,250.726 ppb	101.601 %
Concentration RSD	0.4 %	6.5 %	1.3 %	4.9 %	4.6 %	4.4 %	5.9 %	5.0 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	126.553 ppb	94.009 ppb	385.030 ppb	29,703.459 ppb	98.212 ppb	114.868 ppb	248.511 ppb	302.810 ppb	99.366 %
Concentration per Run 1	128.630 ppb	97.128 ppb	390.990 ppb	30,426.944 ppb	101.018 ppb	117.018 ppb	253.912 ppb	309.614 ppb	95.348 %
Concentration per Run 2	125.147 ppb	92.181 ppb	378.139 ppb	29,287.331 ppb	97.134 ppb	114.877 ppb	249.940 ppb	301.684 ppb	101.052 %
Concentration per Run 3	125.884 ppb	92.719 ppb	385.963 ppb	29,396.100 ppb	96.482 ppb	112.709 ppb	241.680 ppb	297.133 ppb	101.697 %
Concentration RSD	1.5 %	2.9 %	1.7 %	2.1 %	2.5 %	1.9 %	2.5 %	2.1 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	48.740 ppb	36.828 ppb	305.244 ppb	248.114 ppb	90.696 %	10.726 ppb	11.168 ppb	96.625 %	58.608 ppb
Concentration per Run 1	50.051 ppb	37.813 ppb	307.641 ppb	244.730 ppb	89.843 %	10.634 ppb	11.165 ppb	93.749 %	58.551 ppb
Concentration per Run 2	48.019 ppb	35.559 ppb	305.359 ppb	249.223 ppb	90.179 %	10.666 ppb	11.161 ppb	96.755 %	58.788 ppb
Concentration per Run 3	48.150 ppb	37.112 ppb	302.733 ppb	250.390 ppb	92.067 %	10.878 ppb	11.179 ppb	99.370 %	58.485 ppb
Concentration RSD	2.3 %	3.1 %	0.8 %	1.2 %	1.3 %	1.2 %	0.1 %	2.9 %	0.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	444.985 ppb	92.554 %	91.595 %	26.835 ppb	267.711 ppb	92.521 %
Concentration per Run 1	441.989 ppb	90.313 %	90.581 %	26.745 ppb	266.756 ppb	90.599 %
Concentration per Run 2	447.574 ppb	92.865 %	90.938 %	26.437 ppb	266.590 ppb	93.407 %
Concentration per Run 3	445.394 ppb	94.486 %	93.266 %	27.322 ppb	269.788 ppb	93.557 %
Concentration RSD	0.6 %	2.3 %	1.6 %	1.7 %	0.7 %	1.8 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 43 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1805093-5D10 A2-6020T Rack 2
 Analysis started at: 8/13/2023 4:37:37 PM Vial 2

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.316 %	102.349 %	45.533 ppb	15,925.402 ppb	10,836.417 ppb	10,721.122 ppb	7,034.810 ppb	8,615.733 ppb	103.009 %
Concentration per Run 1	94.345 %	100.542 %	46.099 ppb	15,792.610 ppb	10,784.292 ppb	10,514.959 ppb	7,024.672 ppb	8,459.482 ppb	102.041 %
Concentration per Run 2	95.175 %	105.149 %	45.394 ppb	15,734.821 ppb	10,726.576 ppb	10,672.421 ppb	6,984.306 ppb	8,749.816 ppb	103.762 %
Concentration per Run 3	96.429 %	101.355 %	45.105 ppb	16,248.775 ppb	10,998.384 ppb	10,975.985 ppb	7,095.451 ppb	8,637.902 ppb	103.225 %
Concentration RSD	1.1 %	2.4 %	1.1 %	1.8 %	1.3 %	2.2 %	0.8 %	1.7 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	77.104 ppb	99.495 ppb	311.482 ppb	31,452.137 ppb	52.863 ppb	70.846 ppb	238.097 ppb	284.519 ppb	98.049 %
Concentration per Run 1	76.706 ppb	97.590 ppb	305.505 ppb	31,411.907 ppb	51.820 ppb	69.721 ppb	235.372 ppb	282.662 ppb	98.210 %
Concentration per Run 2	78.355 ppb	100.214 ppb	315.235 ppb	31,776.304 ppb	54.126 ppb	71.330 ppb	239.736 ppb	285.109 ppb	97.135 %
Concentration per Run 3	76.253 ppb	100.682 ppb	313.707 ppb	31,168.199 ppb	52.642 ppb	71.488 ppb	239.183 ppb	285.787 ppb	98.801 %
Concentration RSD	1.4 %	1.7 %	1.7 %	1.0 %	2.2 %	1.4 %	1.0 %	0.6 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	67.120 ppb	59.732 ppb	99.389 ppb	57.940 ppb	90.553 %	2.904 ppb	47.735 ppb	96.155 %	48.661 ppb
Concentration per Run 1	64.967 ppb	57.724 ppb	98.765 ppb	57.093 ppb	87.517 %	2.920 ppb	47.888 ppb	92.705 %	49.076 ppb
Concentration per Run 2	69.104 ppb	60.221 ppb	100.585 ppb	58.070 ppb	91.045 %	2.943 ppb	47.746 ppb	98.158 %	47.864 ppb
Concentration per Run 3	67.288 ppb	61.251 ppb	98.818 ppb	58.657 ppb	93.099 %	2.849 ppb	47.570 ppb	97.602 %	49.042 ppb
Concentration RSD	3.1 %	3.0 %	1.0 %	1.4 %	3.1 %	1.7 %	0.3 %	3.1 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	128.824 ppb	93.291 %	93.161 %	47.717 ppb	173.669 ppb	91.614 %
Concentration per Run 1	128.968 ppb	91.162 %	91.418 %	47.258 ppb	173.930 ppb	89.381 %
Concentration per Run 2	126.937 ppb	93.851 %	93.869 %	47.361 ppb	171.726 ppb	93.117 %
Concentration per Run 3	130.566 ppb	94.861 %	94.195 %	48.533 ppb	175.350 ppb	92.344 %
Concentration RSD	1.4 %	2.0 %	1.6 %	1.5 %	1.1 %	2.2 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 44 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1805093-6D50 A2-6020T Rack 2
 Analysis started at: 8/13/2023 4:42:06 PM Vial 3

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.776 %	101.897 %	0.154 ppb	2,377.098 ppb	1,312.492 ppb	2,213.542 ppb	483.002 ppb	806.286 ppb	100.338 %
Concentration per Run 1	95.697 %	94.851 %	0.163 ppb	2,459.786 ppb	1,361.304 ppb	2,254.144 ppb	496.239 ppb	838.452 ppb	98.954 %
Concentration per Run 2	95.254 %	106.504 %	0.148 ppb	2,311.350 ppb	1,291.346 ppb	2,177.811 ppb	466.983 ppb	717.137 ppb	100.485 %
Concentration per Run 3	96.377 %	104.336 %	0.151 ppb	2,360.159 ppb	1,284.824 ppb	2,208.669 ppb	485.783 ppb	863.268 ppb	101.574 %
Concentration RSD	0.6 %	6.1 %	5.3 %	3.2 %	3.2 %	1.7 %	3.1 %	9.7 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	6.575 ppb	11.352 ppb	53.398 ppb	5,413.729 ppb	1.544 ppb	5.018 ppb	41.166 ppb	50.473 ppb	101.817 %
Concentration per Run 1	7.021 ppb	11.571 ppb	55.810 ppb	5,541.889 ppb	1.569 ppb	5.228 ppb	40.786 ppb	50.724 ppb	99.839 %
Concentration per Run 2	6.350 ppb	11.114 ppb	51.230 ppb	5,350.703 ppb	1.589 ppb	4.710 ppb	40.565 ppb	50.590 ppb	102.917 %
Concentration per Run 3	6.354 ppb	11.370 ppb	53.156 ppb	5,348.595 ppb	1.475 ppb	5.115 ppb	42.149 ppb	50.106 ppb	102.696 %
Concentration RSD	5.9 %	2.0 %	4.3 %	2.1 %	3.9 %	5.4 %	2.1 %	0.6 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.216 ppb	3.155 ppb	9.065 ppb	1.941 ppb	97.840 %	0.248 ppb	0.189 ppb	100.084 %	0.283 ppb
Concentration per Run 1	4.154 ppb	2.893 ppb	9.079 ppb	1.521 ppb	95.187 %	0.237 ppb	0.184 ppb	97.405 %	0.269 ppb
Concentration per Run 2	4.135 ppb	3.441 ppb	9.027 ppb	1.929 ppb	98.380 %	0.258 ppb	0.179 ppb	102.579 %	0.279 ppb
Concentration per Run 3	4.360 ppb	3.132 ppb	9.090 ppb	2.374 ppb	99.953 %	0.251 ppb	0.205 ppb	100.269 %	0.300 ppb
Concentration RSD	3.0 %	8.7 %	0.4 %	22.0 %	2.5 %	4.2 %	7.2 %	2.6 %	5.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	15.513 ppb	96.927 %	98.002 %	0.338 ppb	24.898 ppb	97.371 %
Concentration per Run 1	15.622 ppb	94.308 %	95.919 %	0.317 ppb	25.002 ppb	95.301 %
Concentration per Run 2	15.800 ppb	98.585 %	98.823 %	0.384 ppb	24.918 ppb	98.414 %
Concentration per Run 3	15.116 ppb	97.888 %	99.264 %	0.311 ppb	24.773 ppb	98.397 %
Concentration RSD	2.3 %	2.4 %	1.9 %	12.1 %	0.5 %	1.8 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 45 User name ALPHALABla2-icpmsq2 Comment <Comment>
 Analysis label: L2344357-05D5 6020TL Rack 2
 Analysis started at: 8/13/2023 4:46:34 PM Vial 30

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.506 %	90.786 %	0.066 ppb	103,064.723 ppb	3,887.534 ppb	17.248 ppb	761.363 ppb	15,027.543 ppb	92.333 %
Concentration per Run 1	88.518 %	86.450 %	0.069 ppb	105,442.777 ppb	3,988.007 ppb	16.038 ppb	789.742 ppb	15,065.575 ppb	92.693 %
Concentration per Run 2	89.494 %	99.187 %	0.066 ppb	97,564.491 ppb	3,647.619 ppb	16.137 ppb	739.398 ppb	14,675.107 ppb	92.324 %
Concentration per Run 3	87.507 %	86.721 %	0.064 ppb	106,186.902 ppb	4,026.975 ppb	19.570 ppb	754.950 ppb	15,341.946 ppb	91.980 %
Concentration RSD	1.1 %	8.0 %	4.2 %	4.6 %	5.4 %	11.7 %	3.4 %	2.2 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.231 ppb	0.804 ppb	5,873.665 ppb	1,524.701 ppb	3.974 ppb	65.923 ppb	0.222 ppb	1.938 ppb	90.727 %
Concentration per Run 1	0.276 ppb	0.782 ppb	5,924.063 ppb	1,552.379 ppb	4.126 ppb	68.592 ppb	0.254 ppb	1.871 ppb	86.416 %
Concentration per Run 2	0.210 ppb	0.808 ppb	5,787.874 ppb	1,495.252 ppb	3.842 ppb	63.544 ppb	0.240 ppb	2.060 ppb	90.813 %
Concentration per Run 3	0.207 ppb	0.822 ppb	5,909.057 ppb	1,526.471 ppb	3.955 ppb	65.633 ppb	0.173 ppb	1.882 ppb	94.950 %
Concentration RSD	16.9 %	2.6 %	1.3 %	1.9 %	3.6 %	3.8 %	19.5 %	5.5 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.370 ppb	0.744 ppb	47.994 ppb	0.713 ppb	83.494 %	0.006 ppb	0.068 ppb	89.276 %	0.018 ppb
Concentration per Run 1	0.315 ppb	0.322 ppb	48.516 ppb	0.407 ppb	81.350 %	0.003 ppb	0.081 ppb	86.712 %	-0.010 ppb
Concentration per Run 2	0.337 ppb	0.832 ppb	48.156 ppb	0.866 ppb	83.765 %	0.005 ppb	0.061 ppb	89.352 %	0.013 ppb
Concentration per Run 3	0.457 ppb	1.078 ppb	47.312 ppb	0.868 ppb	85.367 %	0.009 ppb	0.061 ppb	91.764 %	0.050 ppb
Concentration RSD	20.7 %	51.8 %	1.3 %	37.2 %	2.4 %	59.7 %	17.6 %	2.8 %	169.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	4.567 ppb	91.800 %	92.678 %	0.107 ppb	0.049 ppb	81.511 %
Concentration per Run 1	4.605 ppb	88.584 %	89.965 %	0.073 ppb	0.049 ppb	79.869 %
Concentration per Run 2	4.748 ppb	91.970 %	92.907 %	0.128 ppb	0.049 ppb	81.521 %
Concentration per Run 3	4.347 ppb	94.844 %	95.163 %	0.120 ppb	0.048 ppb	83.144 %
Concentration RSD	4.4 %	3.4 %	2.8 %	27.7 %	0.7 %	2.0 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 46 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/13/2023 4:51:04 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.682 %	100.452 %	56.979 ppb	5,381.964 ppb	5,534.954 ppb	60.565 ppb	5,621.374 ppb	5,578.596 ppb	96.021 %
Concentration per Run 1	92.093 %	96.748 %	56.609 ppb	5,573.051 ppb	5,892.205 ppb	65.263 ppb	5,888.854 ppb	5,729.069 ppb	95.628 %
Concentration per Run 2	91.775 %	99.458 %	56.982 ppb	5,355.247 ppb	5,508.256 ppb	57.857 ppb	5,527.434 ppb	5,580.144 ppb	96.394 %
Concentration per Run 3	91.178 %	105.149 %	57.345 ppb	5,217.593 ppb	5,204.402 ppb	58.575 ppb	5,447.834 ppb	5,426.576 ppb	96.041 %
Recovery Percentage 1			94.965 %	89.699 %	92.249 %	100.942 %	93.690 %	92.977 %	
Concentration RSD	0.5 %	4.3 %	0.6 %	3.3 %	6.2 %	6.7 %	4.2 %	2.7 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	55.446 ppb	54.484 ppb	56.402 ppb	5,548.867 ppb	55.522 ppb	55.757 ppb	55.455 ppb	57.581 ppb	97.877 %
Concentration per Run 1	55.794 ppb	55.025 ppb	56.372 ppb	5,694.980 ppb	56.218 ppb	57.715 ppb	56.857 ppb	59.012 ppb	95.646 %
Concentration per Run 2	55.258 ppb	54.655 ppb	55.726 ppb	5,510.713 ppb	56.232 ppb	56.409 ppb	54.055 ppb	57.526 ppb	97.594 %
Concentration per Run 3	55.286 ppb	53.772 ppb	57.108 ppb	5,440.908 ppb	54.115 ppb	53.147 ppb	55.452 ppb	56.204 ppb	100.392 %
Recovery Percentage 1	92.410 %	90.807 %	94.004 %	92.481 %	92.536 %	92.928 %	92.424 %	95.968 %	
Concentration RSD	0.5 %	1.2 %	1.2 %	2.4 %	2.2 %	4.2 %	2.5 %	2.4 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	57.942 ppb	61.283 ppb	55.095 ppb	58.677 ppb	92.861 %	56.686 ppb	56.912 ppb	94.924 %	57.409 ppb
Concentration per Run 1	58.367 ppb	62.932 ppb	55.514 ppb	57.727 ppb	92.446 %	56.361 ppb	56.219 ppb	94.880 %	57.252 ppb
Concentration per Run 2	58.161 ppb	60.015 ppb	55.210 ppb	59.833 ppb	91.448 %	57.047 ppb	57.258 ppb	94.498 %	57.815 ppb
Concentration per Run 3	57.299 ppb	60.903 ppb	54.561 ppb	58.470 ppb	94.690 %	56.651 ppb	57.259 ppb	95.394 %	57.160 ppb
Recovery Percentage 1	96.570 %	102.139 %	91.825 %	97.795 %		94.477 %	94.853 %		95.681 %
Concentration RSD	1.0 %	2.4 %	0.9 %	1.8 %	1.8 %	0.6 %	1.1 %	0.5 %	0.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	56.534 ppb	94.002 %	94.891 %	56.933 ppb	55.624 ppb	91.221 %
Concentration per Run 1	56.240 ppb	93.452 %	94.896 %	55.297 ppb	54.879 ppb	91.631 %
Concentration per Run 2	56.579 ppb	92.904 %	93.824 %	56.439 ppb	55.535 ppb	90.736 %
Concentration per Run 3	56.781 ppb	95.650 %	95.952 %	59.062 ppb	56.458 ppb	91.295 %
Recovery Percentage 1	94.223 %			94.888 %	92.707 %	
Concentration RSD	0.5 %	1.5 %	1.1 %	3.4 %	1.4 %	0.5 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 47 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/13/2023 4:55:36 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.142 %	97.380 %	0.010 ppb	-2.424 ppb	-2.752 ppb	-0.548 ppb	-10.175 ppb	-6.871 ppb	96.334 %
Concentration per Run 1	94.775 %	89.702 %	0.011 ppb	-2.145 ppb	-3.910 ppb	-0.701 ppb	-10.536 ppb	-1.241 ppb	94.880 %
Concentration per Run 2	96.221 %	101.355 %	0.007 ppb	-3.088 ppb	-0.642 ppb	-0.752 ppb	-9.183 ppb	-9.077 ppb	97.958 %
Concentration per Run 3	94.432 %	101.084 %	0.012 ppb	-2.040 ppb	-3.704 ppb	-0.192 ppb	-10.806 ppb	-10.294 ppb	96.165 %
Recovery Percentage 1			2.027 %	-2.424 %	-3.932 %	-5.481 %	-10.175 %	-6.871 %	
Concentration RSD	1.0 %	6.8 %	28.6 %	23.8 %	66.5 %	56.5 %	8.5 %	71.5 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.008 ppb	-0.031 ppb	-0.091 ppb	0.787 ppb	0.000 ppb	-0.065 ppb	-0.045 ppb	-0.745 ppb	99.614 %
Concentration per Run 1	0.035 ppb	-0.022 ppb	-0.085 ppb	3.590 ppb	0.003 ppb	-0.060 ppb	-0.035 ppb	-0.729 ppb	97.359 %
Concentration per Run 2	-0.045 ppb	-0.036 ppb	-0.138 ppb	0.031 ppb	0.002 ppb	-0.060 ppb	-0.043 ppb	-0.770 ppb	102.806 %
Concentration per Run 3	-0.015 ppb	-0.037 ppb	-0.049 ppb	-1.260 ppb	-0.005 ppb	-0.073 ppb	-0.059 ppb	-0.735 ppb	98.676 %
Recovery Percentage 1	-0.169 %	-3.136 %	-9.071 %	1.574 %	0.025 %	-3.238 %	-4.542 %	-14.896 %	
Concentration RSD	475.9 %	27.1 %	49.0 %	319.2 %	3,304.5 %	11.6 %	27.0 %	3.0 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.282 ppb	1.593 ppb	0.004 ppb	1.067 ppb	96.479 %	0.003 ppb	-0.004 ppb	98.163 %	0.013 ppb
Concentration per Run 1	0.208 ppb	1.485 ppb	0.010 ppb	0.862 ppb	95.358 %	0.008 ppb	-0.003 ppb	94.475 %	-0.013 ppb
Concentration per Run 2	0.268 ppb	1.550 ppb	-0.020 ppb	1.162 ppb	96.450 %	0.001 ppb	-0.008 ppb	98.396 %	0.014 ppb
Concentration per Run 3	0.371 ppb	1.745 ppb	0.023 ppb	1.178 ppb	97.630 %	0.000 ppb	-0.002 ppb	101.616 %	0.039 ppb
Recovery Percentage 1	56.453 %	31.866 %	0.043 %	53.373 %		0.776 %	-2.182 %		0.331 %
Concentration RSD	29.3 %	8.5 %	514.2 %	16.7 %	1.2 %	134.1 %	68.7 %	3.6 %	196.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.054 ppb	95.831 %	95.718 %	0.357 ppb	0.003 ppb	95.622 %
Concentration per Run 1	0.007 ppb	93.614 %	93.279 %	0.346 ppb	0.002 ppb	93.341 %
Concentration per Run 2	0.105 ppb	95.999 %	96.098 %	0.413 ppb	0.003 ppb	95.879 %
Concentration per Run 3	0.051 ppb	97.879 %	97.777 %	0.312 ppb	0.002 ppb	97.647 %
Recovery Percentage 1	10.881 %			35.704 %	0.254 %	
Concentration RSD	90.7 %	2.2 %	2.4 %	14.5 %	18.0 %	2.3 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 48 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: L2344357-10 6020TL Rack 1
 Analysis started at: 8/13/2023 5:02:13 PM Vial 55

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.197 %	90.695 %	6.771 ppb	93,447.784 ppb	9,418.841 ppb	17,529.827 ppb	3,192.046 ppb	11,857.538 ppb	104.089 %
Concentration per Run 1	88.657 %	93.225 %	6.777 ppb	89,610.161 ppb	9,020.220 ppb	17,121.311 ppb	3,228.970 ppb	11,500.874 ppb	104.282 %
Concentration per Run 2	90.026 %	83.469 %	6.732 ppb	101,996.515 ppb	10,184.105 ppb	18,757.545 ppb	3,299.209 ppb	12,259.790 ppb	104.829 %
Concentration per Run 3	88.908 %	95.393 %	6.803 ppb	88,736.675 ppb	9,052.197 ppb	16,710.624 ppb	3,047.960 ppb	11,811.951 ppb	103.155 %
Concentration RSD	0.8 %	7.0 %	0.5 %	7.9 %	7.0 %	6.2 %	4.1 %	3.2 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	64.181 ppb	1,434.635 ppb	1,571.712 ppb	44,785.988 ppb	27.556 ppb	760.087 ppb	1,063.138 ppb	842.168 ppb	102.500 %
Concentration per Run 1	63.486 ppb	1,403.641 ppb	1,531.397 ppb	44,000.841 ppb	27.254 ppb	757.476 ppb	1,078.213 ppb	845.876 ppb	96.541 %
Concentration per Run 2	66.226 ppb	1,491.908 ppb	1,639.354 ppb	46,779.629 ppb	28.646 ppb	788.509 ppb	1,092.851 ppb	865.546 ppb	102.658 %
Concentration per Run 3	62.832 ppb	1,408.356 ppb	1,544.384 ppb	43,577.494 ppb	26.769 ppb	734.277 ppb	1,018.351 ppb	815.082 ppb	108.301 %
Concentration RSD	2.8 %	3.5 %	3.7 %	3.9 %	3.5 %	3.6 %	3.7 %	3.0 %	5.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	111.596 ppb	49.066 ppb	75.933 ppb	19.854 ppb	81.176 %	2.217 ppb	6.873 ppb	87.570 %	0.644 ppb
Concentration per Run 1	113.122 ppb	48.014 ppb	76.028 ppb	19.376 ppb	78.852 %	2.254 ppb	6.849 ppb	82.432 %	0.665 ppb
Concentration per Run 2	112.225 ppb	51.232 ppb	76.463 ppb	19.657 ppb	81.500 %	2.191 ppb	6.922 ppb	88.143 %	0.636 ppb
Concentration per Run 3	109.442 ppb	47.953 ppb	75.307 ppb	20.529 ppb	83.176 %	2.204 ppb	6.848 ppb	92.137 %	0.631 ppb
Concentration RSD	1.7 %	3.8 %	0.8 %	3.0 %	2.7 %	1.5 %	0.6 %	5.6 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	687.097 ppb	97.238 %	87.818 %	0.378 ppb	526.737 ppb	79.603 %
Concentration per Run 1	698.020 ppb	93.317 %	84.997 %	0.369 ppb	525.971 ppb	76.375 %
Concentration per Run 2	686.525 ppb	97.481 %	87.798 %	0.394 ppb	525.329 ppb	80.551 %
Concentration per Run 3	676.748 ppb	100.915 %	90.660 %	0.372 ppb	528.911 ppb	81.882 %
Concentration RSD	1.5 %	3.9 %	3.2 %	3.6 %	0.4 %	3.6 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 49 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2341121-05D10 A2-6020T Rack 2
 Analysis started at: 8/13/2023 5:06:41 PM Vial 14

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.226 %	96.838 %	1.135 ppb	8,633.841 ppb	9,037.496 ppb	17,685.668 ppb	3,863.167 ppb	3,077.843 ppb	112.439 %
Concentration per Run 1	97.006 %	97.019 %	1.139 ppb	8,606.457 ppb	9,096.659 ppb	17,327.625 ppb	3,742.564 ppb	2,974.948 ppb	112.495 %
Concentration per Run 2	97.382 %	97.290 %	1.124 ppb	8,445.226 ppb	8,896.318 ppb	17,742.704 ppb	3,936.921 ppb	3,174.566 ppb	112.570 %
Concentration per Run 3	97.289 %	96.206 %	1.141 ppb	8,849.840 ppb	9,119.510 ppb	17,986.675 ppb	3,910.015 ppb	3,084.016 ppb	112.251 %
Concentration RSD	0.2 %	0.6 %	0.8 %	2.4 %	1.4 %	1.9 %	2.7 %	3.2 %	0.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	45.388 ppb	41.376 ppb	443.691 ppb	47,891.667 ppb	11.650 ppb	30.095 ppb	17.030 ppb	90.553 ppb	101.557 %
Concentration per Run 1	45.541 ppb	41.546 ppb	449.566 ppb	48,566.462 ppb	11.824 ppb	30.692 ppb	17.249 ppb	90.215 ppb	97.870 %
Concentration per Run 2	45.355 ppb	40.482 ppb	437.698 ppb	46,682.941 ppb	11.433 ppb	29.863 ppb	16.695 ppb	89.580 ppb	103.824 %
Concentration per Run 3	45.270 ppb	42.100 ppb	443.808 ppb	48,425.597 ppb	11.695 ppb	29.731 ppb	17.147 ppb	91.863 ppb	102.975 %
Concentration RSD	0.3 %	2.0 %	1.3 %	2.2 %	1.7 %	1.7 %	1.7 %	1.3 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	17.941 ppb	10.969 ppb	39.208 ppb	1.984 ppb	90.952 %	0.078 ppb	0.142 ppb	96.635 %	0.056 ppb
Concentration per Run 1	17.931 ppb	10.805 ppb	39.239 ppb	1.800 ppb	89.416 %	0.084 ppb	0.142 ppb	95.604 %	0.078 ppb
Concentration per Run 2	17.495 ppb	10.700 ppb	39.077 ppb	2.089 ppb	91.132 %	0.079 ppb	0.145 ppb	96.107 %	0.036 ppb
Concentration per Run 3	18.396 ppb	11.401 ppb	39.307 ppb	2.062 ppb	92.306 %	0.070 ppb	0.138 ppb	98.194 %	0.053 ppb
Concentration RSD	2.5 %	3.4 %	0.3 %	8.1 %	1.6 %	9.1 %	2.5 %	1.4 %	37.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	31.133 ppb	92.683 %	91.734 %	0.224 ppb	17.566 ppb	90.543 %
Concentration per Run 1	31.814 ppb	91.153 %	90.414 %	0.196 ppb	17.403 ppb	89.455 %
Concentration per Run 2	31.176 ppb	92.849 %	91.457 %	0.230 ppb	17.570 ppb	90.770 %
Concentration per Run 3	30.411 ppb	94.048 %	93.332 %	0.246 ppb	17.723 ppb	91.405 %
Concentration RSD	2.3 %	1.6 %	1.6 %	11.4 %	0.9 %	1.1 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 50 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: I2341121-06D10 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 5:11:10 PM Vial: 15

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.387 %	100.632 %	1.129 ppb	10,205.477 ppb	9,431.466 ppb	17,908.718 ppb	3,999.787 ppb	4,136.942 ppb	109.429 %
Concentration per Run 1	96.921 %	97.832 %	1.108 ppb	10,369.978 ppb	9,634.229 ppb	18,211.164 ppb	4,076.703 ppb	4,239.524 ppb	108.663 %
Concentration per Run 2	98.618 %	97.290 %	1.146 ppb	10,521.159 ppb	9,556.281 ppb	18,221.373 ppb	4,097.005 ppb	4,188.340 ppb	110.555 %
Concentration per Run 3	96.621 %	106.775 %	1.133 ppb	9,725.294 ppb	9,103.889 ppb	17,293.618 ppb	3,825.652 ppb	3,982.962 ppb	109.068 %
Concentration RSD	1.1 %	5.3 %	1.7 %	4.1 %	3.0 %	3.0 %	3.8 %	3.3 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	50.937 ppb	43.497 ppb	503.469 ppb	50,358.235 ppb	11.857 ppb	30.904 ppb	16.541 ppb	92.745 ppb	98.981 %
Concentration per Run 1	52.001 ppb	44.374 ppb	511.215 ppb	50,840.026 ppb	11.822 ppb	30.938 ppb	17.372 ppb	94.409 ppb	95.362 %
Concentration per Run 2	51.778 ppb	43.653 ppb	507.069 ppb	50,534.321 ppb	12.132 ppb	31.248 ppb	16.311 ppb	92.416 ppb	100.138 %
Concentration per Run 3	49.033 ppb	42.465 ppb	492.125 ppb	49,700.357 ppb	11.617 ppb	30.525 ppb	15.940 ppb	91.411 ppb	101.442 %
Concentration RSD	3.2 %	2.2 %	2.0 %	1.2 %	2.2 %	1.2 %	4.5 %	1.6 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	20.559 ppb	10.932 ppb	46.955 ppb	2.586 ppb	89.424 %	0.068 ppb	0.142 ppb	94.457 %	0.071 ppb
Concentration per Run 1	20.849 ppb	11.345 ppb	47.594 ppb	2.529 ppb	87.679 %	0.063 ppb	0.157 ppb	93.192 %	0.057 ppb
Concentration per Run 2	20.293 ppb	11.194 ppb	46.976 ppb	2.555 ppb	89.064 %	0.069 ppb	0.144 ppb	92.369 %	0.060 ppb
Concentration per Run 3	20.536 ppb	10.257 ppb	46.296 ppb	2.675 ppb	91.529 %	0.073 ppb	0.124 ppb	97.810 %	0.096 ppb
Concentration RSD	1.4 %	5.4 %	1.4 %	3.0 %	2.2 %	7.4 %	11.6 %	3.1 %	30.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	34.018 ppb	90.799 %	89.733 %	0.206 ppb	16.934 ppb	89.766 %
Concentration per Run 1	33.620 ppb	89.444 %	88.183 %	0.190 ppb	16.855 ppb	89.080 %
Concentration per Run 2	34.962 ppb	90.935 %	88.926 %	0.219 ppb	16.954 ppb	89.858 %
Concentration per Run 3	33.472 ppb	92.017 %	92.089 %	0.210 ppb	16.992 ppb	90.359 %
Concentration RSD	2.4 %	1.4 %	2.3 %	7.1 %	0.4 %	0.7 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 51 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: I2341121-07D10 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 5:15:39 PM Vial: 16

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.731 %	103.975 %	1.112 ppb	9,414.047 ppb	8,693.300 ppb	16,134.784 ppb	3,777.411 ppb	3,093.312 ppb	105.004 %
Concentration per Run 1	96.251 %	98.645 %	1.102 ppb	9,834.757 ppb	9,030.340 ppb	16,751.086 ppb	3,835.921 ppb	3,081.482 ppb	105.294 %
Concentration per Run 2	96.072 %	109.214 %	1.099 ppb	9,074.031 ppb	8,433.618 ppb	15,397.010 ppb	3,713.299 ppb	3,062.550 ppb	104.639 %
Concentration per Run 3	94.869 %	104.065 %	1.134 ppb	9,333.353 ppb	8,615.941 ppb	16,256.255 ppb	3,783.013 ppb	3,135.903 ppb	105.080 %
Concentration RSD	0.8 %	5.1 %	1.7 %	4.1 %	3.5 %	4.2 %	1.6 %	1.2 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	45.035 ppb	40.512 ppb	383.914 ppb	44,262.700 ppb	11.164 ppb	28.487 ppb	14.751 ppb	84.532 ppb	98.396 %
Concentration per Run 1	45.674 ppb	40.694 ppb	386.327 ppb	44,666.915 ppb	11.637 ppb	28.932 ppb	14.877 ppb	85.096 ppb	96.139 %
Concentration per Run 2	43.841 ppb	39.366 ppb	375.947 ppb	43,515.282 ppb	10.711 ppb	28.002 ppb	14.705 ppb	82.871 ppb	100.222 %
Concentration per Run 3	45.590 ppb	41.477 ppb	389.466 ppb	44,605.904 ppb	11.145 ppb	28.528 ppb	14.671 ppb	85.628 ppb	98.827 %
Concentration RSD	2.3 %	2.6 %	1.8 %	1.5 %	4.2 %	1.6 %	0.7 %	1.7 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	16.615 ppb	10.931 ppb	39.418 ppb	1.133 ppb	87.579 %	0.064 ppb	0.141 ppb	91.901 %	0.080 ppb
Concentration per Run 1	16.242 ppb	11.022 ppb	39.558 ppb	1.032 ppb	85.845 %	0.063 ppb	0.131 ppb	90.352 %	0.053 ppb
Concentration per Run 2	16.155 ppb	10.570 ppb	39.314 ppb	1.150 ppb	88.157 %	0.066 ppb	0.164 ppb	92.590 %	0.071 ppb
Concentration per Run 3	17.447 ppb	11.203 ppb	39.382 ppb	1.217 ppb	88.737 %	0.062 ppb	0.129 ppb	92.762 %	0.116 ppb
Concentration RSD	4.3 %	3.0 %	0.3 %	8.2 %	1.7 %	3.6 %	14.0 %	1.5 %	40.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	33.503 ppb	88.553 %	87.015 %	0.185 ppb	16.162 ppb	87.447 %
Concentration per Run 1	33.231 ppb	86.186 %	85.348 %	0.168 ppb	16.163 ppb	85.912 %
Concentration per Run 2	33.494 ppb	89.096 %	87.121 %	0.191 ppb	16.116 ppb	87.953 %
Concentration per Run 3	33.784 ppb	90.376 %	88.577 %	0.195 ppb	16.208 ppb	88.474 %
Concentration RSD	0.8 %	2.4 %	1.9 %	7.7 %	0.3 %	1.5 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 52 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: I2341121-03D10 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 5:20:08 PM Vial: 4

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.142 %	96.477 %	0.755 ppb	11,754.848 ppb	5,950.445 ppb	12,304.772 ppb	2,716.804 ppb	1,837.298 ppb	104.231 %
Concentration per Run 1	94.123 %	92.683 %	0.757 ppb	11,855.424 ppb	6,067.291 ppb	12,330.734 ppb	2,740.123 ppb	1,785.040 ppb	104.045 %
Concentration per Run 2	95.779 %	101.084 %	0.747 ppb	11,544.381 ppb	5,694.958 ppb	12,035.529 ppb	2,672.157 ppb	1,887.208 ppb	104.892 %
Concentration per Run 3	95.525 %	95.664 %	0.762 ppb	11,864.739 ppb	6,089.086 ppb	12,548.053 ppb	2,738.132 ppb	1,839.646 ppb	103.755 %
Concentration RSD	0.9 %	4.4 %	1.0 %	1.6 %	3.7 %	2.1 %	1.4 %	2.8 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	35.778 ppb	27.045 ppb	275.631 ppb	28,425.991 ppb	7.331 ppb	20.755 ppb	11.594 ppb	56.542 ppb	96.192 %
Concentration per Run 1	35.896 ppb	26.607 ppb	273.188 ppb	27,794.655 ppb	7.207 ppb	20.660 ppb	11.877 ppb	55.933 ppb	95.027 %
Concentration per Run 2	35.677 ppb	26.971 ppb	277.591 ppb	28,927.478 ppb	7.496 ppb	20.977 ppb	11.209 ppb	56.081 ppb	95.671 %
Concentration per Run 3	35.761 ppb	27.556 ppb	276.112 ppb	28,555.839 ppb	7.289 ppb	20.627 ppb	11.696 ppb	57.612 ppb	97.879 %
Concentration RSD	0.3 %	1.8 %	0.8 %	2.0 %	2.0 %	0.9 %	3.0 %	1.6 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	9.248 ppb	7.012 ppb	32.555 ppb	4.558 ppb	87.692 %	0.041 ppb	0.110 ppb	91.757 %	0.059 ppb
Concentration per Run 1	8.989 ppb	6.896 ppb	32.392 ppb	4.437 ppb	84.990 %	0.038 ppb	0.087 ppb	89.318 %	0.062 ppb
Concentration per Run 2	9.246 ppb	7.004 ppb	32.695 ppb	4.766 ppb	89.016 %	0.045 ppb	0.146 ppb	92.463 %	0.053 ppb
Concentration per Run 3	9.508 ppb	7.136 ppb	32.576 ppb	4.470 ppb	89.070 %	0.040 ppb	0.098 ppb	93.488 %	0.061 ppb
Concentration RSD	2.8 %	1.7 %	0.5 %	4.0 %	2.7 %	8.9 %	28.5 %	2.4 %	8.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	18.673 ppb	88.721 %	87.856 %	0.137 ppb	12.393 ppb	86.894 %
Concentration per Run 1	18.724 ppb	85.808 %	84.904 %	0.128 ppb	12.359 ppb	85.377 %
Concentration per Run 2	18.125 ppb	89.684 %	88.263 %	0.144 ppb	12.438 ppb	86.970 %
Concentration per Run 3	19.169 ppb	90.670 %	90.403 %	0.138 ppb	12.381 ppb	88.334 %
Concentration RSD	2.8 %	2.9 %	3.2 %	5.7 %	0.3 %	1.7 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 53 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: I2341121-08D10 A2-6020T Rack 2
 Analysis started at: 8/13/2023 5:24:36 PM Vial 17

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.317 %	97.109 %	1.105 ppb	9,745.825 ppb	8,947.131 ppb	16,299.225 ppb	3,751.595 ppb	4,588.542 ppb	105.927 %
Concentration per Run 1	93.893 %	95.664 %	1.077 ppb	9,510.357 ppb	8,850.387 ppb	16,023.932 ppb	3,718.036 ppb	4,637.921 ppb	105.894 %
Concentration per Run 2	93.006 %	97.019 %	1.136 ppb	9,814.066 ppb	8,890.544 ppb	16,504.284 ppb	3,871.912 ppb	4,601.062 ppb	105.363 %
Concentration per Run 3	93.053 %	98.645 %	1.101 ppb	9,913.051 ppb	9,100.462 ppb	16,369.458 ppb	3,664.837 ppb	4,526.642 ppb	106.523 %
Concentration RSD	0.5 %	1.5 %	2.7 %	2.2 %	1.5 %	1.5 %	2.9 %	1.2 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	46.348 ppb	40.094 ppb	451.486 ppb	46,890.273 ppb	10.699 ppb	28.255 ppb	15.638 ppb	85.892 ppb	96.304 %
Concentration per Run 1	46.785 ppb	40.080 ppb	450.126 ppb	46,278.583 ppb	10.592 ppb	28.446 ppb	15.687 ppb	85.749 ppb	95.007 %
Concentration per Run 2	45.759 ppb	39.672 ppb	444.345 ppb	47,373.981 ppb	10.649 ppb	27.841 ppb	15.458 ppb	86.432 ppb	96.973 %
Concentration per Run 3	46.500 ppb	40.529 ppb	459.986 ppb	47,018.255 ppb	10.857 ppb	28.479 ppb	15.769 ppb	85.495 ppb	96.932 %
Concentration RSD	1.1 %	1.1 %	1.8 %	1.2 %	1.3 %	1.3 %	1.0 %	0.6 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	19.495 ppb	10.656 ppb	47.416 ppb	1.619 ppb	86.386 %	0.074 ppb	0.129 ppb	92.071 %	0.073 ppb
Concentration per Run 1	19.081 ppb	10.626 ppb	47.269 ppb	1.464 ppb	84.855 %	0.074 ppb	0.093 ppb	90.667 %	0.079 ppb
Concentration per Run 2	19.524 ppb	10.806 ppb	47.106 ppb	1.602 ppb	86.645 %	0.078 ppb	0.140 ppb	91.358 %	0.072 ppb
Concentration per Run 3	19.881 ppb	10.537 ppb	47.872 ppb	1.792 ppb	87.657 %	0.071 ppb	0.156 ppb	94.188 %	0.068 ppb
Concentration RSD	2.1 %	1.3 %	0.9 %	10.1 %	1.6 %	4.3 %	25.2 %	2.0 %	8.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	33.685 ppb	88.899 %	87.327 %	0.184 ppb	16.004 ppb	86.422 %
Concentration per Run 1	33.210 ppb	86.356 %	85.166 %	0.179 ppb	16.098 ppb	84.189 %
Concentration per Run 2	34.626 ppb	88.615 %	87.636 %	0.189 ppb	16.150 ppb	86.592 %
Concentration per Run 3	33.218 ppb	91.724 %	89.179 %	0.186 ppb	15.765 ppb	88.485 %
Concentration RSD	2.4 %	3.0 %	2.3 %	2.8 %	1.3 %	2.5 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 54 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1805093-7D10 A2-6020T Rack 2
 Analysis started at: 8/13/2023 5:29:05 PM Vial 5

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.154 %	93.135 %	8.976 ppb	13,409.680 ppb	8,087.922 ppb	13,588.084 ppb	5,002.605 ppb	3,722.231 ppb	99.480 %
Concentration per Run 1	91.499 %	86.179 %	9.165 ppb	14,145.060 ppb	8,541.974 ppb	14,288.200 ppb	5,269.907 ppb	3,852.993 ppb	99.233 %
Concentration per Run 2	91.621 %	94.580 %	8.940 ppb	13,002.861 ppb	7,825.792 ppb	13,360.228 ppb	4,838.836 ppb	3,812.924 ppb	99.012 %
Concentration per Run 3	93.341 %	98.645 %	8.823 ppb	13,081.118 ppb	7,895.999 ppb	13,115.825 ppb	4,899.074 ppb	3,500.777 ppb	100.197 %
Concentration RSD	1.1 %	6.8 %	1.9 %	4.8 %	4.9 %	4.6 %	4.7 %	5.2 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	124.294 ppb	62.578 ppb	348.613 ppb	27,414.612 ppb	93.390 ppb	105.918 ppb	55.308 ppb	142.191 ppb	91.732 %
Concentration per Run 1	127.613 ppb	65.180 ppb	360.884 ppb	28,218.323 ppb	95.499 ppb	107.227 ppb	57.000 ppb	145.365 ppb	88.044 %
Concentration per Run 2	124.125 ppb	61.715 ppb	348.479 ppb	27,440.246 ppb	94.093 ppb	105.255 ppb	54.933 ppb	141.208 ppb	93.036 %
Concentration per Run 3	121.143 ppb	60.840 ppb	336.477 ppb	26,585.268 ppb	90.580 ppb	105.273 ppb	53.991 ppb	140.001 ppb	94.116 %
Concentration RSD	2.6 %	3.7 %	3.5 %	3.0 %	2.7 %	1.1 %	2.8 %	2.0 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	35.738 ppb	33.596 ppb	263.498 ppb	231.924 ppb	85.077 %	9.226 ppb	10.012 ppb	87.257 %	52.076 ppb
Concentration per Run 1	36.429 ppb	32.171 ppb	266.833 ppb	227.786 ppb	82.654 %	9.238 ppb	10.149 ppb	85.547 %	51.551 ppb
Concentration per Run 2	35.357 ppb	33.368 ppb	263.491 ppb	230.911 ppb	85.788 %	9.200 ppb	10.048 ppb	88.046 %	51.588 ppb
Concentration per Run 3	35.429 ppb	35.250 ppb	260.170 ppb	237.074 ppb	86.788 %	9.239 ppb	9.840 ppb	88.179 %	53.089 ppb
Concentration RSD	1.7 %	4.6 %	1.3 %	2.0 %	2.5 %	0.2 %	1.6 %	1.7 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	387.170 ppb	85.916 %	84.700 %	26.468 ppb	130.814 ppb	84.506 %
Concentration per Run 1	389.441 ppb	83.272 %	82.978 %	26.331 ppb	130.914 ppb	82.811 %
Concentration per Run 2	380.424 ppb	86.103 %	83.906 %	26.340 ppb	131.232 ppb	84.621 %
Concentration per Run 3	391.645 ppb	88.374 %	87.217 %	26.732 ppb	130.295 ppb	86.087 %
Concentration RSD	1.5 %	3.0 %	2.6 %	0.9 %	0.4 %	1.9 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 55 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1805093-8D10 A2-6020T Rack 2
 Analysis started at: 8/13/2023 5:33:34 PM Vial 6

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.419 %	94.490 %	9.648 ppb	14,170.021 ppb	8,968.753 ppb	15,195.620 ppb	5,461.760 ppb	3,951.099 ppb	98.728 %
Concentration per Run 1	93.788 %	90.515 %	9.459 ppb	14,769.729 ppb	9,156.643 ppb	15,375.123 ppb	5,612.353 ppb	3,821.817 ppb	99.281 %
Concentration per Run 2	93.460 %	94.580 %	9.831 ppb	14,124.292 ppb	8,975.118 ppb	15,271.952 ppb	5,481.096 ppb	4,113.986 ppb	98.494 %
Concentration per Run 3	93.009 %	98.374 %	9.655 ppb	13,616.041 ppb	8,774.499 ppb	14,939.785 ppb	5,291.831 ppb	3,917.494 ppb	98.408 %
Concentration RSD	0.4 %	4.2 %	1.9 %	4.1 %	2.1 %	1.5 %	3.0 %	3.8 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	129.479 ppb	66.578 ppb	433.989 ppb	32,379.188 ppb	95.922 ppb	110.258 ppb	57.394 ppb	151.612 ppb	91.558 %
Concentration per Run 1	130.457 ppb	66.501 ppb	441.013 ppb	32,510.519 ppb	94.727 ppb	111.085 ppb	58.082 ppb	152.219 ppb	89.992 %
Concentration per Run 2	132.350 ppb	67.148 ppb	435.881 ppb	32,560.628 ppb	99.123 ppb	111.073 ppb	57.154 ppb	153.913 ppb	91.113 %
Concentration per Run 3	125.631 ppb	66.086 ppb	425.071 ppb	32,066.418 ppb	93.916 ppb	108.618 ppb	56.947 ppb	148.704 ppb	93.568 %
Concentration RSD	2.7 %	0.8 %	1.9 %	0.8 %	2.9 %	1.3 %	1.1 %	1.8 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	39.207 ppb	36.361 ppb	279.655 ppb	248.143 ppb	84.508 %	9.449 ppb	10.481 ppb	86.156 %	58.244 ppb
Concentration per Run 1	38.850 ppb	36.348 ppb	279.495 ppb	246.596 ppb	82.218 %	9.340 ppb	10.505 ppb	84.872 %	57.816 ppb
Concentration per Run 2	40.165 ppb	34.781 ppb	280.767 ppb	248.491 ppb	85.265 %	9.506 ppb	10.695 ppb	87.203 %	57.581 ppb
Concentration per Run 3	38.607 ppb	37.955 ppb	278.704 ppb	249.343 ppb	86.040 %	9.501 ppb	10.245 ppb	86.393 %	59.336 ppb
Concentration RSD	2.1 %	4.4 %	0.4 %	0.6 %	2.4 %	1.0 %	2.2 %	1.4 %	1.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	401.137 ppb	85.175 %	84.549 %	28.359 ppb	139.408 ppb	83.731 %
Concentration per Run 1	402.973 ppb	82.981 %	82.766 %	27.966 ppb	138.592 ppb	82.031 %
Concentration per Run 2	400.002 ppb	84.757 %	84.393 %	28.306 ppb	139.631 ppb	84.383 %
Concentration per Run 3	400.438 ppb	87.786 %	86.489 %	28.806 ppb	140.001 ppb	84.781 %
Concentration RSD	0.4 %	2.9 %	2.2 %	1.5 %	0.5 %	1.8 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 56 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: WG1805093-9D10 A2-6020T Rack 2
 Analysis started at: 8/13/2023 5:38:03 PM Vial 7

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.750 %	89.521 %	43.967 ppb	16,782.796 ppb	10,776.920 ppb	12,729.757 ppb	7,451.920 ppb	6,415.620 ppb	97.861 %
Concentration per Run 1	90.866 %	82.927 %	44.276 ppb	17,619.723 ppb	11,336.585 ppb	13,176.262 ppb	7,918.873 ppb	7,004.474 ppb	96.804 %
Concentration per Run 2	90.735 %	92.141 %	43.720 ppb	16,533.547 ppb	10,850.524 ppb	12,648.991 ppb	7,269.299 ppb	6,297.032 ppb	97.520 %
Concentration per Run 3	90.649 %	93.496 %	43.904 ppb	16,195.117 ppb	10,143.650 ppb	12,364.018 ppb	7,167.587 ppb	5,945.356 ppb	99.260 %
Concentration RSD	0.1 %	6.4 %	0.6 %	4.4 %	5.6 %	3.2 %	5.5 %	8.4 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	81.405 ppb	71.943 ppb	322.212 ppb	33,037.632 ppb	52.540 ppb	65.318 ppb	57.362 ppb	101.916 ppb	92.179 %
Concentration per Run 1	85.036 ppb	76.692 ppb	328.407 ppb	33,963.990 ppb	56.108 ppb	68.362 ppb	60.361 ppb	104.723 ppb	90.087 %
Concentration per Run 2	80.270 ppb	70.860 ppb	319.627 ppb	33,017.543 ppb	52.366 ppb	66.282 ppb	57.548 ppb	101.228 ppb	92.448 %
Concentration per Run 3	78.909 ppb	68.277 ppb	318.601 ppb	32,131.365 ppb	49.146 ppb	61.310 ppb	54.178 ppb	99.797 ppb	94.003 %
Concentration RSD	4.0 %	6.0 %	1.7 %	2.8 %	6.6 %	5.5 %	5.4 %	2.5 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	55.843 ppb	57.031 ppb	84.225 ppb	60.284 ppb	83.689 %	1.803 ppb	48.534 ppb	86.170 %	49.242 ppb
Concentration per Run 1	59.040 ppb	59.360 ppb	86.909 ppb	63.125 ppb	82.075 %	1.897 ppb	51.090 ppb	83.085 %	52.236 ppb
Concentration per Run 2	55.253 ppb	55.882 ppb	83.670 ppb	59.924 ppb	83.612 %	1.754 ppb	47.820 ppb	86.310 %	48.715 ppb
Concentration per Run 3	53.235 ppb	55.850 ppb	82.096 ppb	57.803 ppb	85.380 %	1.758 ppb	46.692 ppb	89.115 %	46.776 ppb
Concentration RSD	5.3 %	3.5 %	2.9 %	4.4 %	2.0 %	4.5 %	4.7 %	3.5 %	5.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	68.893 ppb	84.995 %	84.045 %	50.776 ppb	61.644 ppb	82.847 %
Concentration per Run 1	70.206 ppb	83.115 %	82.375 %	53.361 ppb	64.391 ppb	81.609 %
Concentration per Run 2	69.243 ppb	85.003 %	84.305 %	50.265 ppb	61.077 ppb	82.610 %
Concentration per Run 3	67.230 ppb	86.868 %	85.455 %	48.700 ppb	59.464 ppb	84.322 %
Concentration RSD	2.2 %	2.2 %	1.9 %	4.7 %	4.1 %	1.7 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 57 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: WG1805093-10D50 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 5:42:32 PM Vial: 8

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.507 %	96.838 %	0.169 ppb	2,380.543 ppb	1,209.113 ppb	2,503.382 ppb	558.690 ppb	373.890 ppb	94.409 %
Concentration per Run 1	90.596 %	102.710 %	0.178 ppb	2,240.517 ppb	1,117.033 ppb	2,346.242 ppb	548.188 ppb	333.876 ppb	92.742 %
Concentration per Run 2	92.423 %	93.496 %	0.182 ppb	2,457.907 ppb	1,249.790 ppb	2,603.241 ppb	585.402 ppb	419.320 ppb	94.144 %
Concentration per Run 3	91.502 %	94.309 %	0.146 ppb	2,443.206 ppb	1,260.514 ppb	2,560.662 ppb	542.481 ppb	368.474 ppb	96.342 %
Concentration RSD	1.0 %	5.3 %	11.7 %	5.1 %	6.6 %	5.5 %	4.2 %	11.5 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	7.235 ppb	5.429 ppb	56.993 ppb	5,857.260 ppb	1.582 ppb	4.504 ppb	2.454 ppb	12.003 ppb	92.420 %
Concentration per Run 1	6.906 ppb	5.317 ppb	55.283 ppb	5,730.392 ppb	1.488 ppb	4.489 ppb	2.250 ppb	11.550 ppb	91.329 %
Concentration per Run 2	7.426 ppb	5.503 ppb	58.693 ppb	5,967.760 ppb	1.645 ppb	4.814 ppb	2.658 ppb	12.502 ppb	89.513 %
Concentration per Run 3	7.373 ppb	5.467 ppb	57.003 ppb	5,873.627 ppb	1.612 ppb	4.207 ppb	2.455 ppb	11.956 ppb	96.419 %
Concentration RSD	4.0 %	1.8 %	3.0 %	2.0 %	5.2 %	6.8 %	8.3 %	4.0 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.153 ppb	2.705 ppb	6.479 ppb	2.245 ppb	90.506 %	0.012 ppb	0.019 ppb	92.167 %	0.029 ppb
Concentration per Run 1	2.007 ppb	2.284 ppb	6.394 ppb	2.062 ppb	87.925 %	0.012 ppb	0.011 ppb	89.969 %	0.016 ppb
Concentration per Run 2	2.439 ppb	2.590 ppb	6.629 ppb	2.423 ppb	91.740 %	0.012 ppb	0.031 ppb	92.267 %	0.047 ppb
Concentration per Run 3	2.013 ppb	3.243 ppb	6.415 ppb	2.250 ppb	91.854 %	0.012 ppb	0.016 ppb	94.266 %	0.024 ppb
Concentration RSD	11.5 %	18.1 %	2.0 %	8.1 %	2.5 %	1.1 %	56.1 %	2.3 %	56.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3.665 ppb	90.148 %	89.006 %	0.297 ppb	2.485 ppb	89.748 %
Concentration per Run 1	3.599 ppb	87.114 %	85.597 %	0.302 ppb	2.457 ppb	89.040 %
Concentration per Run 2	3.365 ppb	90.738 %	89.724 %	0.338 ppb	2.515 ppb	89.746 %
Concentration per Run 3	4.031 ppb	92.591 %	91.697 %	0.251 ppb	2.483 ppb	90.459 %
Concentration RSD	9.2 %	3.1 %	3.5 %	14.6 %	1.2 %	0.8 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 58 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/13/2023 5:47:01 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.551 %	87.172 %	55.936 ppb	5,480.888 ppb	5,625.404 ppb	58.622 ppb	5,546.596 ppb	5,508.302 ppb	89.748 %
Concentration per Run 1	87.793 %	89.702 %	56.206 ppb	5,270.536 ppb	5,391.744 ppb	53.253 ppb	5,381.462 ppb	5,111.620 ppb	90.533 %
Concentration per Run 2	89.234 %	89.973 %	55.664 ppb	5,441.442 ppb	5,598.710 ppb	56.905 ppb	5,493.745 ppb	5,483.900 ppb	88.776 %
Concentration per Run 3	88.625 %	81.843 %	55.939 ppb	5,730.687 ppb	5,885.760 ppb	65.707 ppb	5,764.581 ppb	5,929.386 ppb	89.935 %
Recovery Percentage 1			93.227 %	91.348 %	93.757 %	97.703 %	92.443 %	91.805 %	
Concentration RSD	0.8 %	5.3 %	0.5 %	4.2 %	4.4 %	10.9 %	3.6 %	7.4 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	54.749 ppb	55.245 ppb	55.822 ppb	5,629.120 ppb	55.927 ppb	55.930 ppb	56.152 ppb	57.355 ppb	90.187 %
Concentration per Run 1	52.000 ppb	52.547 ppb	52.902 ppb	5,466.624 ppb	54.377 ppb	53.877 ppb	54.492 ppb	55.327 ppb	92.218 %
Concentration per Run 2	55.940 ppb	55.056 ppb	57.266 ppb	5,724.241 ppb	55.828 ppb	56.322 ppb	56.865 ppb	58.768 ppb	89.014 %
Concentration per Run 3	56.308 ppb	58.132 ppb	57.299 ppb	5,696.496 ppb	57.577 ppb	57.592 ppb	57.098 ppb	57.970 ppb	89.328 %
Recovery Percentage 1	91.248 %	92.075 %	93.037 %	93.819 %	93.212 %	93.217 %	93.586 %	95.591 %	
Concentration RSD	4.4 %	5.1 %	4.5 %	2.5 %	2.9 %	3.4 %	2.6 %	3.1 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	57.416 ppb	61.632 ppb	53.391 ppb	60.202 ppb	86.159 %	56.626 ppb	56.879 ppb	88.241 %	57.149 ppb
Concentration per Run 1	56.251 ppb	58.110 ppb	52.521 ppb	58.192 ppb	84.567 %	56.459 ppb	56.754 ppb	85.982 %	57.417 ppb
Concentration per Run 2	57.312 ppb	62.588 ppb	54.023 ppb	60.508 ppb	86.852 %	56.409 ppb	57.060 ppb	87.530 %	57.198 ppb
Concentration per Run 3	58.684 ppb	64.199 ppb	53.630 ppb	61.906 ppb	87.059 %	57.012 ppb	56.823 ppb	91.210 %	56.830 ppb
Recovery Percentage 1	95.693 %	102.720 %	88.985 %	100.337 %		94.377 %	94.798 %		95.248 %
Concentration RSD	2.1 %	5.1 %	1.5 %	3.1 %	1.6 %	0.6 %	0.3 %	3.0 %	0.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	56.632 ppb	88.447 %	88.956 %	56.822 ppb	55.667 ppb	86.010 %
Concentration per Run 1	56.782 ppb	87.927 %	89.352 %	55.940 ppb	54.923 ppb	85.412 %
Concentration per Run 2	56.955 ppb	88.300 %	88.392 %	57.053 ppb	56.017 ppb	85.910 %
Concentration per Run 3	56.158 ppb	89.115 %	89.124 %	57.472 ppb	56.062 ppb	86.706 %
Recovery Percentage 1	94.386 %			94.703 %	92.779 %	
Concentration RSD	0.7 %	0.7 %	0.6 %	1.4 %	1.2 %	0.8 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 59 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/13/2023 5:51:33 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.138 %	88.256 %	0.007 ppb	-3.603 ppb	-1.253 ppb	-0.405 ppb	-9.718 ppb	-8.715 ppb	89.233 %
Concentration per Run 1	90.005 %	85.637 %	0.004 ppb	-4.553 ppb	-0.404 ppb	-0.317 ppb	-12.792 ppb	-9.074 ppb	87.688 %
Concentration per Run 2	90.855 %	90.515 %	0.007 ppb	-3.289 ppb	-2.349 ppb	-0.416 ppb	-7.815 ppb	-8.447 ppb	89.652 %
Concentration per Run 3	89.553 %	88.618 %	0.009 ppb	-2.967 ppb	-1.006 ppb	-0.481 ppb	-8.546 ppb	-8.625 ppb	90.360 %
Recovery Percentage 1			1.376 %	-3.603 %	-1.790 %	-4.048 %	-9.718 %	-8.715 %	
Concentration RSD	0.7 %	2.8 %	39.4 %	23.3 %	79.5 %	20.3 %	27.7 %	3.7 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.004 ppb	-0.042 ppb	-0.186 ppb	2.635 ppb	0.000 ppb	-0.021 ppb	-0.034 ppb	-0.747 ppb	90.890 %
Concentration per Run 1	-0.001 ppb	-0.041 ppb	-0.262 ppb	0.437 ppb	-0.001 ppb	-0.062 ppb	-0.044 ppb	-0.736 ppb	90.837 %
Concentration per Run 2	-0.010 ppb	-0.034 ppb	-0.120 ppb	5.049 ppb	0.004 ppb	0.063 ppb	-0.025 ppb	-0.753 ppb	89.487 %
Concentration per Run 3	0.022 ppb	-0.052 ppb	-0.175 ppb	2.420 ppb	-0.002 ppb	-0.064 ppb	-0.033 ppb	-0.753 ppb	92.346 %
Recovery Percentage 1	0.072 %	-4.235 %	-18.581 %	5.270 %	0.036 %	-1.047 %	-3.412 %	-14.949 %	
Concentration RSD	456.1 %	20.8 %	38.4 %	87.8 %	1,668.3 %	346.7 %	28.5 %	1.3 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.278 ppb	1.662 ppb	0.008 ppb	1.121 ppb	90.055 %	0.003 ppb	-0.003 ppb	91.010 %	-0.003 ppb
Concentration per Run 1	0.160 ppb	1.382 ppb	-0.001 ppb	0.853 ppb	88.725 %	0.003 ppb	-0.005 ppb	89.876 %	-0.014 ppb
Concentration per Run 2	0.302 ppb	1.846 ppb	0.013 ppb	1.285 ppb	90.355 %	0.000 ppb	-0.003 ppb	89.875 %	-0.002 ppb
Concentration per Run 3	0.373 ppb	1.758 ppb	0.012 ppb	1.225 ppb	91.086 %	0.006 ppb	-0.001 ppb	93.279 %	0.006 ppb
Recovery Percentage 1	55.643 %	33.238 %	0.082 %	56.048 %		0.696 %	-1.466 %		-0.080 %
Concentration RSD	38.9 %	14.8 %	92.2 %	20.9 %	1.3 %	106.6 %	67.8 %	2.2 %	311.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.014 ppb	90.014 %	89.403 %	0.353 ppb	0.003 ppb	89.733 %
Concentration per Run 1	-0.069 ppb	87.254 %	86.836 %	0.347 ppb	0.003 ppb	87.546 %
Concentration per Run 2	0.024 ppb	90.591 %	89.612 %	0.407 ppb	0.005 ppb	89.660 %
Concentration per Run 3	0.001 ppb	92.197 %	91.761 %	0.304 ppb	0.001 ppb	91.993 %
Recovery Percentage 1	-2.899 %			35.262 %	0.336 %	
Concentration RSD	335.7 %	2.8 %	2.8 %	14.6 %	61.1 %	2.5 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 60 User name ALPHALAB\la2-icpmsq Comment FB
 Analysis label: L2344357-11 6020TL Rack 1
 Analysis started at: 8/13/2023 5:56:06 PM Vial 56

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.466 %	94.399 %	0.001 ppb	-1.209 ppb	-0.198 ppb	2.131 ppb	-10.649 ppb	-4.195 ppb	91.367 %
Concentration per Run 1	90.354 %	89.160 %	-0.001 ppb	-0.073 ppb	-1.429 ppb	2.149 ppb	-12.195 ppb	-3.038 ppb	91.286 %
Concentration per Run 2	91.825 %	101.084 %	-0.003 ppb	-3.057 ppb	-0.066 ppb	1.845 ppb	-9.853 ppb	-6.553 ppb	91.376 %
Concentration per Run 3	92.220 %	92.954 %	0.008 ppb	-0.495 ppb	0.900 ppb	2.398 ppb	-9.900 ppb	-2.995 ppb	91.438 %
Concentration RSD	1.1 %	6.5 %	442.0 %	133.6 %	590.4 %	13.0 %	12.6 %	48.7 %	0.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.017 ppb	0.023 ppb	-0.061 ppb	-1.023 ppb	0.006 ppb	-0.032 ppb	0.079 ppb	-0.695 ppb	91.771 %
Concentration per Run 1	-0.010 ppb	-0.009 ppb	-0.081 ppb	-2.004 ppb	0.009 ppb	-0.109 ppb	0.108 ppb	-0.584 ppb	89.613 %
Concentration per Run 2	0.066 ppb	0.038 ppb	-0.033 ppb	-1.108 ppb	0.001 ppb	0.025 ppb	0.035 ppb	-0.776 ppb	91.382 %
Concentration per Run 3	-0.004 ppb	0.041 ppb	-0.069 ppb	0.044 ppb	0.008 ppb	-0.013 ppb	0.093 ppb	-0.724 ppb	94.318 %
Concentration RSD	243.1 %	120.9 %	41.4 %	100.4 %	77.0 %	216.5 %	49.5 %	14.3 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.122 ppb	0.522 ppb	0.011 ppb	0.404 ppb	92.362 %	0.001 ppb	-0.002 ppb	92.477 %	-0.032 ppb
Concentration per Run 1	0.062 ppb	0.222 ppb	0.009 ppb	0.173 ppb	90.410 %	0.001 ppb	-0.001 ppb	91.702 %	-0.052 ppb
Concentration per Run 2	0.137 ppb	0.668 ppb	0.021 ppb	0.400 ppb	93.541 %	0.002 ppb	-0.005 ppb	93.430 %	-0.019 ppb
Concentration per Run 3	0.168 ppb	0.674 ppb	0.004 ppb	0.639 ppb	93.135 %	-0.001 ppb	-0.001 ppb	92.301 %	-0.025 ppb
Concentration RSD	44.4 %	49.7 %	79.8 %	57.8 %	1.8 %	268.7 %	107.3 %	0.9 %	55.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.047 ppb	90.068 %	90.586 %	0.104 ppb	0.023 ppb	90.880 %
Concentration per Run 1	0.033 ppb	88.887 %	88.644 %	0.071 ppb	0.021 ppb	89.550 %
Concentration per Run 2	0.072 ppb	90.299 %	91.162 %	0.122 ppb	0.021 ppb	91.760 %
Concentration per Run 3	0.038 ppb	91.018 %	91.952 %	0.119 ppb	0.026 ppb	91.330 %
Concentration RSD	44.5 %	1.2 %	1.9 %	27.3 %	12.3 %	1.3 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 61 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: I2341121-09D10 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 6:00:36 PM Vial: 18

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.422 %	94.219 %	0.980 ppb	9,310.785 ppb	8,604.432 ppb	15,307.851 ppb	3,599.038 ppb	4,976.145 ppb	104.947 %
Concentration per Run 1	93.778 %	87.263 %	1.027 ppb	9,803.308 ppb	8,977.837 ppb	15,790.853 ppb	3,667.454 ppb	5,130.909 ppb	103.470 %
Concentration per Run 2	94.680 %	95.664 %	0.974 ppb	9,011.273 ppb	8,555.337 ppb	15,297.743 ppb	3,582.370 ppb	4,893.124 ppb	106.180 %
Concentration per Run 3	94.806 %	99.729 %	0.939 ppb	9,117.774 ppb	8,280.123 ppb	14,834.957 ppb	3,547.291 ppb	4,904.402 ppb	105.191 %
Concentration RSD	0.6 %	6.7 %	4.5 %	4.6 %	4.1 %	3.1 %	1.7 %	2.7 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	42.803 ppb	38.526 ppb	385.739 ppb	42,440.650 ppb	10.487 ppb	27.444 ppb	13.829 ppb	79.970 ppb	93.343 %
Concentration per Run 1	43.922 ppb	39.159 ppb	390.131 ppb	43,404.529 ppb	10.530 ppb	27.370 ppb	14.050 ppb	80.536 ppb	90.468 %
Concentration per Run 2	42.026 ppb	38.033 ppb	382.998 ppb	41,857.954 ppb	10.275 ppb	26.778 ppb	13.552 ppb	79.445 ppb	95.149 %
Concentration per Run 3	42.460 ppb	38.388 ppb	384.086 ppb	42,059.467 ppb	10.654 ppb	28.184 ppb	13.884 ppb	79.927 ppb	94.412 %
Concentration RSD	2.3 %	1.5 %	1.0 %	2.0 %	1.8 %	2.6 %	1.8 %	0.7 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	16.146 ppb	10.249 ppb	46.157 ppb	1.431 ppb	84.749 %	0.060 ppb	0.091 ppb	89.714 %	0.068 ppb
Concentration per Run 1	15.869 ppb	9.706 ppb	46.309 ppb	1.375 ppb	82.538 %	0.054 ppb	0.085 ppb	87.906 %	0.052 ppb
Concentration per Run 2	16.083 ppb	11.096 ppb	46.048 ppb	1.429 ppb	85.413 %	0.062 ppb	0.101 ppb	90.844 %	0.072 ppb
Concentration per Run 3	16.485 ppb	9.945 ppb	46.114 ppb	1.490 ppb	86.296 %	0.065 ppb	0.086 ppb	90.391 %	0.079 ppb
Concentration RSD	1.9 %	7.2 %	0.3 %	4.0 %	2.3 %	10.1 %	10.3 %	1.8 %	21.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	32.521 ppb	86.209 %	84.218 %	0.209 ppb	14.387 ppb	85.576 %
Concentration per Run 1	31.695 ppb	83.195 %	81.692 %	0.184 ppb	14.328 ppb	84.415 %
Concentration per Run 2	32.475 ppb	87.520 %	84.605 %	0.219 ppb	14.284 ppb	86.058 %
Concentration per Run 3	33.394 ppb	87.911 %	86.356 %	0.226 ppb	14.549 ppb	86.255 %
Concentration RSD	2.6 %	3.0 %	2.8 %	10.5 %	1.0 %	1.2 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 62 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: I2341121-10D10 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 6:05:05 PM Vial: 19

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.070 %	96.025 %	1.088 ppb	8,843.872 ppb	8,743.161 ppb	15,239.591 ppb	3,665.240 ppb	11,865.230 ppb	102.151 %
Concentration per Run 1	93.184 %	104.065 %	1.106 ppb	8,134.399 ppb	7,965.858 ppb	14,148.481 ppb	3,486.015 ppb	11,379.014 ppb	101.298 %
Concentration per Run 2	92.857 %	88.347 %	1.032 ppb	9,548.381 ppb	9,625.467 ppb	16,409.999 ppb	3,950.237 ppb	12,490.400 ppb	101.430 %
Concentration per Run 3	93.168 %	95.664 %	1.127 ppb	8,848.837 ppb	8,638.159 ppb	15,160.292 ppb	3,559.470 ppb	11,726.276 ppb	103.726 %
Concentration RSD	0.2 %	8.2 %	4.6 %	8.0 %	9.5 %	7.4 %	6.8 %	4.8 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	46.916 ppb	40.938 ppb	407.225 ppb	45,695.907 ppb	10.537 ppb	28.297 ppb	14.147 ppb	87.884 ppb	92.122 %
Concentration per Run 1	44.195 ppb	39.166 ppb	392.995 ppb	44,292.606 ppb	10.350 ppb	27.296 ppb	13.792 ppb	85.931 ppb	90.827 %
Concentration per Run 2	50.256 ppb	43.788 ppb	427.342 ppb	47,870.673 ppb	11.096 ppb	30.692 ppb	14.537 ppb	92.782 ppb	88.507 %
Concentration per Run 3	46.297 ppb	39.861 ppb	401.338 ppb	44,924.442 ppb	10.165 ppb	26.904 ppb	14.111 ppb	84.939 ppb	97.032 %
Concentration RSD	6.6 %	6.1 %	4.4 %	4.2 %	4.7 %	7.4 %	2.6 %	4.9 %	4.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	19.214 ppb	9.716 ppb	84.875 ppb	1.799 ppb	83.858 %	0.069 ppb	0.098 ppb	88.181 %	0.049 ppb
Concentration per Run 1	19.066 ppb	8.316 ppb	84.501 ppb	1.590 ppb	82.986 %	0.071 ppb	0.088 ppb	86.917 %	0.035 ppb
Concentration per Run 2	19.890 ppb	10.224 ppb	86.594 ppb	1.904 ppb	84.383 %	0.071 ppb	0.097 ppb	88.185 %	0.059 ppb
Concentration per Run 3	18.688 ppb	10.606 ppb	83.530 ppb	1.902 ppb	84.206 %	0.065 ppb	0.108 ppb	89.442 %	0.053 ppb
Concentration RSD	3.2 %	12.6 %	1.8 %	10.0 %	0.9 %	4.4 %	10.3 %	1.4 %	25.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	35.400 ppb	84.711 %	82.930 %	0.208 ppb	15.361 ppb	83.990 %
Concentration per Run 1	34.326 ppb	83.339 %	80.908 %	0.180 ppb	15.096 ppb	83.859 %
Concentration per Run 2	36.089 ppb	85.400 %	83.767 %	0.221 ppb	15.378 ppb	83.757 %
Concentration per Run 3	35.784 ppb	85.394 %	84.115 %	0.223 ppb	15.610 ppb	84.354 %
Concentration RSD	2.7 %	1.4 %	2.1 %	11.7 %	1.7 %	0.4 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 63 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: I2341121-11D10 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 6:09:34 PM Vial: 20

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.930 %	93.044 %	0.941 ppb	9,970.246 ppb	6,815.467 ppb	10,695.114 ppb	2,317.360 ppb	5,214.188 ppb	97.867 %
Concentration per Run 1	92.666 %	85.095 %	0.976 ppb	10,351.820 ppb	7,124.114 ppb	11,141.908 ppb	2,395.490 ppb	5,335.074 ppb	98.295 %
Concentration per Run 2	92.194 %	93.496 %	0.896 ppb	10,078.200 ppb	6,867.907 ppb	10,767.325 ppb	2,408.553 ppb	5,295.070 ppb	98.344 %
Concentration per Run 3	90.931 %	100.542 %	0.952 ppb	9,480.718 ppb	6,454.381 ppb	10,176.108 ppb	2,148.036 ppb	5,012.418 ppb	96.961 %
Concentration RSD	1.0 %	8.3 %	4.4 %	4.5 %	5.0 %	4.6 %	6.3 %	3.4 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	38.963 ppb	89.663 ppb	338.740 ppb	34,096.517 ppb	10.928 ppb	43.005 ppb	532.737 ppb	621.263 ppb	93.751 %
Concentration per Run 1	38.754 ppb	89.396 ppb	339.669 ppb	34,133.002 ppb	10.957 ppb	43.140 ppb	530.148 ppb	615.527 ppb	93.153 %
Concentration per Run 2	39.804 ppb	91.538 ppb	341.358 ppb	34,753.518 ppb	10.944 ppb	44.656 ppb	546.120 ppb	635.585 ppb	92.298 %
Concentration per Run 3	38.331 ppb	88.053 ppb	335.195 ppb	33,403.032 ppb	10.882 ppb	41.218 ppb	521.944 ppb	612.678 ppb	95.803 %
Concentration RSD	1.9 %	2.0 %	0.9 %	2.0 %	0.4 %	4.0 %	2.3 %	2.0 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	45.308 ppb	12.061 ppb	53.509 ppb	3.102 ppb	85.409 %	4.427 ppb	3.266 ppb	90.341 %	2.667 ppb
Concentration per Run 1	44.774 ppb	11.786 ppb	52.620 ppb	2.819 ppb	84.636 %	4.348 ppb	3.399 ppb	88.092 %	2.704 ppb
Concentration per Run 2	46.257 ppb	11.980 ppb	54.606 ppb	3.194 ppb	85.112 %	4.492 ppb	3.179 ppb	90.601 %	2.567 ppb
Concentration per Run 3	44.891 ppb	12.416 ppb	53.300 ppb	3.293 ppb	86.478 %	4.439 ppb	3.221 ppb	92.329 %	2.730 ppb
Concentration RSD	1.8 %	2.7 %	1.9 %	8.1 %	1.1 %	1.6 %	3.6 %	2.4 %	3.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	78.078 ppb	85.612 %	84.577 %	0.209 ppb	297.718 ppb	92.786 %
Concentration per Run 1	77.955 ppb	83.596 %	82.620 %	0.198 ppb	296.498 ppb	91.741 %
Concentration per Run 2	77.794 ppb	86.526 %	85.626 %	0.217 ppb	298.679 ppb	92.605 %
Concentration per Run 3	78.486 ppb	86.715 %	85.485 %	0.211 ppb	297.977 ppb	94.012 %
Concentration RSD	0.5 %	2.0 %	2.0 %	4.6 %	0.4 %	1.2 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 64 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: I2341121-12D10 A2-6020T Rack 2
 Analysis started at: 8/13/2023 6:14:03 PM Vial 21

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.478 %	91.509 %	0.927 ppb	10,260.056 ppb	7,052.013 ppb	11,417.102 ppb	2,468.785 ppb	4,272.660 ppb	98.839 %
Concentration per Run 1	91.969 %	89.160 %	0.897 ppb	10,272.566 ppb	6,964.362 ppb	11,438.612 ppb	2,465.081 ppb	4,234.576 ppb	99.502 %
Concentration per Run 2	91.129 %	92.683 %	0.926 ppb	10,209.808 ppb	7,046.281 ppb	11,259.243 ppb	2,419.574 ppb	4,181.232 ppb	97.875 %
Concentration per Run 3	91.337 %	92.683 %	0.957 ppb	10,297.793 ppb	7,145.396 ppb	11,553.451 ppb	2,521.700 ppb	4,402.173 ppb	99.141 %
Concentration RSD	0.5 %	2.2 %	3.3 %	0.4 %	1.3 %	1.3 %	2.1 %	2.7 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	40.798 ppb	95.309 ppb	352.349 ppb	35,555.881 ppb	11.495 ppb	43.322 ppb	552.436 ppb	625.198 ppb	91.241 %
Concentration per Run 1	39.982 ppb	94.244 ppb	342.871 ppb	35,249.768 ppb	11.513 ppb	43.242 ppb	546.814 ppb	621.017 ppb	89.781 %
Concentration per Run 2	40.902 ppb	94.490 ppb	351.343 ppb	35,278.789 ppb	11.312 ppb	42.883 ppb	543.260 ppb	613.682 ppb	93.910 %
Concentration per Run 3	41.509 ppb	97.193 ppb	362.833 ppb	36,139.086 ppb	11.659 ppb	43.843 ppb	567.234 ppb	640.894 ppb	90.032 %
Concentration RSD	1.9 %	1.7 %	2.8 %	1.4 %	1.5 %	1.1 %	2.3 %	2.3 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	45.474 ppb	12.095 ppb	49.962 ppb	3.439 ppb	85.206 %	4.234 ppb	3.198 ppb	90.515 %	2.279 ppb
Concentration per Run 1	45.149 ppb	11.870 ppb	49.875 ppb	3.082 ppb	83.718 %	4.175 ppb	3.273 ppb	89.684 %	2.256 ppb
Concentration per Run 2	45.047 ppb	12.062 ppb	49.511 ppb	3.471 ppb	85.329 %	4.227 ppb	3.069 ppb	90.667 %	2.261 ppb
Concentration per Run 3	46.226 ppb	12.352 ppb	50.499 ppb	3.764 ppb	86.570 %	4.300 ppb	3.251 ppb	91.194 %	2.319 ppb
Concentration RSD	1.4 %	2.0 %	1.0 %	10.0 %	1.7 %	1.5 %	3.5 %	0.8 %	1.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	77.876 ppb	85.333 %	84.703 %	0.219 ppb	304.375 ppb	92.298 %
Concentration per Run 1	76.853 ppb	83.194 %	82.569 %	0.209 ppb	303.365 ppb	91.078 %
Concentration per Run 2	77.651 ppb	85.126 %	85.043 %	0.222 ppb	306.850 ppb	92.012 %
Concentration per Run 3	79.125 ppb	87.679 %	86.496 %	0.224 ppb	302.909 ppb	93.803 %
Concentration RSD	1.5 %	2.6 %	2.3 %	3.7 %	0.7 %	1.5 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 65 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: I2341121-04D10 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 6:18:33 PM Vial: 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.258 %	95.303 %	1.073 ppb	11,007.364 ppb	8,611.194 ppb	16,669.634 ppb	3,678.963 ppb	2,144.043 ppb	101.951 %
Concentration per Run 1	91.844 %	97.832 %	1.095 ppb	10,550.169 ppb	8,166.478 ppb	15,866.832 ppb	3,577.105 ppb	2,033.354 ppb	101.095 %
Concentration per Run 2	91.389 %	94.038 %	1.089 ppb	11,189.736 ppb	8,661.688 ppb	16,945.636 ppb	3,702.877 ppb	2,208.107 ppb	101.258 %
Concentration per Run 3	93.540 %	94.038 %	1.035 ppb	11,282.185 ppb	9,005.415 ppb	17,196.436 ppb	3,756.907 ppb	2,190.669 ppb	103.501 %
Concentration RSD	1.2 %	2.3 %	3.1 %	3.6 %	4.9 %	4.2 %	2.5 %	4.5 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	44.428 ppb	39.086 ppb	528.872 ppb	42,565.810 ppb	11.370 ppb	29.097 ppb	17.731 ppb	89.667 ppb	92.123 %
Concentration per Run 1	42.478 ppb	38.357 ppb	514.126 ppb	41,929.354 ppb	11.153 ppb	28.279 ppb	17.987 ppb	87.401 ppb	92.484 %
Concentration per Run 2	46.276 ppb	39.662 ppb	542.176 ppb	43,239.537 ppb	11.780 ppb	29.069 ppb	17.768 ppb	90.396 ppb	91.211 %
Concentration per Run 3	44.529 ppb	39.241 ppb	530.314 ppb	42,528.538 ppb	11.178 ppb	29.944 ppb	17.438 ppb	91.202 ppb	92.673 %
Concentration RSD	4.3 %	1.7 %	2.7 %	1.5 %	3.1 %	2.9 %	1.6 %	2.2 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	16.645 ppb	11.069 ppb	35.582 ppb	1.891 ppb	84.756 %	0.085 ppb	0.135 ppb	88.664 %	0.054 ppb
Concentration per Run 1	15.972 ppb	10.410 ppb	35.105 ppb	1.853 ppb	83.363 %	0.100 ppb	0.136 ppb	86.721 %	0.064 ppb
Concentration per Run 2	16.891 ppb	11.118 ppb	35.868 ppb	1.835 ppb	84.948 %	0.073 ppb	0.142 ppb	88.557 %	0.043 ppb
Concentration per Run 3	17.074 ppb	11.678 ppb	35.775 ppb	1.984 ppb	85.959 %	0.082 ppb	0.128 ppb	90.713 %	0.054 ppb
Concentration RSD	3.5 %	5.7 %	1.2 %	4.3 %	1.5 %	15.9 %	5.3 %	2.3 %	19.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	29.748 ppb	84.078 %	82.593 %	0.171 ppb	17.605 ppb	83.403 %
Concentration per Run 1	30.174 ppb	82.403 %	81.867 %	0.169 ppb	17.689 ppb	81.194 %
Concentration per Run 2	28.921 ppb	84.449 %	82.458 %	0.178 ppb	17.555 ppb	84.577 %
Concentration per Run 3	30.149 ppb	85.381 %	83.456 %	0.167 ppb	17.571 ppb	84.438 %
Concentration RSD	2.4 %	1.8 %	1.0 %	3.5 %	0.4 %	2.3 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 66 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: WG1805093-11D10 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 6:23:03 PM Vial: 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.571 %	92.683 %	9.709 ppb	13,159.909 ppb	10,815.255 ppb	18,124.481 ppb	6,183.096 ppb	3,952.345 ppb	98.726 %
Concentration per Run 1	91.745 %	88.347 %	9.678 ppb	13,168.431 ppb	10,982.288 ppb	18,280.429 ppb	6,212.876 ppb	3,862.568 ppb	97.963 %
Concentration per Run 2	92.548 %	95.122 %	9.523 ppb	13,055.045 ppb	10,766.340 ppb	18,066.107 ppb	6,217.402 ppb	4,059.510 ppb	99.189 %
Concentration per Run 3	90.421 %	94.580 %	9.925 ppb	13,256.251 ppb	10,697.137 ppb	18,026.909 ppb	6,119.008 ppb	3,934.957 ppb	99.027 %
Concentration RSD	1.2 %	4.1 %	2.1 %	0.8 %	1.4 %	0.8 %	0.9 %	2.5 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	134.468 ppb	75.220 ppb	629.847 ppb	43,638.493 ppb	99.527 ppb	114.487 ppb	62.564 ppb	175.276 ppb	89.697 %
Concentration per Run 1	132.899 ppb	74.555 ppb	633.630 ppb	42,820.428 ppb	98.484 ppb	113.113 ppb	62.757 ppb	174.120 ppb	89.091 %
Concentration per Run 2	135.711 ppb	73.952 ppb	622.042 ppb	43,724.072 ppb	98.068 ppb	113.518 ppb	62.008 ppb	173.944 ppb	90.189 %
Concentration per Run 3	134.793 ppb	77.154 ppb	633.870 ppb	44,370.979 ppb	102.030 ppb	116.830 ppb	62.927 ppb	177.765 ppb	89.812 %
Concentration RSD	1.1 %	2.3 %	1.1 %	1.8 %	2.2 %	1.8 %	0.8 %	1.2 %	0.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	45.421 ppb	37.943 ppb	280.393 ppb	239.630 ppb	81.018 %	9.553 ppb	10.446 ppb	85.127 %	53.725 ppb
Concentration per Run 1	45.189 ppb	35.835 ppb	277.720 ppb	235.866 ppb	79.592 %	9.685 ppb	10.359 ppb	83.253 %	53.352 ppb
Concentration per Run 2	44.671 ppb	39.739 ppb	282.985 ppb	240.271 ppb	80.963 %	9.500 ppb	10.603 ppb	85.037 %	53.710 ppb
Concentration per Run 3	46.403 ppb	38.254 ppb	280.473 ppb	242.753 ppb	82.498 %	9.473 ppb	10.377 ppb	87.089 %	54.114 ppb
Concentration RSD	2.0 %	5.2 %	0.9 %	1.5 %	1.8 %	1.2 %	1.3 %	2.3 %	0.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	318.042 ppb	82.299 %	80.559 %	27.605 ppb	143.363 ppb	81.575 %
Concentration per Run 1	315.395 ppb	80.390 %	79.487 %	27.585 ppb	142.827 ppb	79.975 %
Concentration per Run 2	320.370 ppb	82.581 %	80.460 %	27.416 ppb	143.737 ppb	81.589 %
Concentration per Run 3	318.361 ppb	83.927 %	81.730 %	27.813 ppb	143.526 ppb	83.161 %
Concentration RSD	0.8 %	2.2 %	1.4 %	0.7 %	0.3 %	2.0 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 67 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: WG1805093-12D10 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 6:27:33 PM Vial: 11

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.923 %	96.116 %	9.383 ppb	12,415.992 ppb	10,089.171 ppb	16,766.616 ppb	5,733.043 ppb	3,939.454 ppb	98.190 %
Concentration per Run 1	88.342 %	93.496 %	9.410 ppb	12,660.485 ppb	10,179.629 ppb	16,919.367 ppb	5,781.313 ppb	3,927.196 ppb	98.028 %
Concentration per Run 2	87.806 %	100.000 %	9.423 ppb	12,067.808 ppb	9,724.410 ppb	16,125.559 ppb	5,572.739 ppb	3,879.524 ppb	97.789 %
Concentration per Run 3	90.621 %	94.851 %	9.315 ppb	12,519.682 ppb	10,363.475 ppb	17,254.923 ppb	5,845.078 ppb	4,011.641 ppb	98.752 %
Concentration RSD	1.7 %	3.6 %	0.6 %	2.5 %	3.3 %	3.5 %	2.5 %	1.7 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	130.842 ppb	71.380 ppb	665.058 ppb	46,654.140 ppb	94.700 ppb	110.680 ppb	61.757 ppb	169.404 ppb	89.970 %
Concentration per Run 1	132.134 ppb	71.596 ppb	679.780 ppb	47,358.507 ppb	97.010 ppb	112.877 ppb	62.509 ppb	172.274 ppb	87.056 %
Concentration per Run 2	129.008 ppb	72.119 ppb	656.845 ppb	46,449.606 ppb	92.736 ppb	107.903 ppb	61.945 ppb	168.151 ppb	89.976 %
Concentration per Run 3	131.385 ppb	70.426 ppb	658.550 ppb	46,154.305 ppb	94.356 ppb	111.261 ppb	60.816 ppb	167.787 ppb	92.878 %
Concentration RSD	1.2 %	1.2 %	1.9 %	1.3 %	2.3 %	2.3 %	1.4 %	1.5 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	45.634 ppb	37.067 ppb	269.315 ppb	236.466 ppb	81.789 %	9.310 ppb	10.345 ppb	85.536 %	47.105 ppb
Concentration per Run 1	45.627 ppb	38.235 ppb	270.475 ppb	235.392 ppb	79.304 %	9.323 ppb	10.325 ppb	84.892 %	46.850 ppb
Concentration per Run 2	46.343 ppb	35.796 ppb	269.271 ppb	235.987 ppb	82.835 %	9.199 ppb	10.205 ppb	86.474 %	46.696 ppb
Concentration per Run 3	44.932 ppb	37.171 ppb	268.200 ppb	238.019 ppb	83.229 %	9.407 ppb	10.505 ppb	85.241 %	47.770 ppb
Concentration RSD	1.5 %	3.3 %	0.4 %	0.6 %	2.6 %	1.1 %	1.5 %	1.0 %	1.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	230.921 ppb	83.095 %	82.246 %	27.638 ppb	137.054 ppb	80.866 %
Concentration per Run 1	227.372 ppb	80.990 %	80.374 %	26.837 ppb	135.018 ppb	80.254 %
Concentration per Run 2	230.131 ppb	83.470 %	82.606 %	27.696 ppb	136.616 ppb	81.490 %
Concentration per Run 3	235.261 ppb	84.824 %	83.757 %	28.382 ppb	139.529 ppb	80.854 %
Concentration RSD	1.7 %	2.3 %	2.1 %	2.8 %	1.7 %	0.8 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 68 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: WG1805093-13D10 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 6:32:03 PM Vial: 12

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.203 %	89.702 %	45.258 ppb	15,519.334 ppb	13,315.631 ppb	16,714.629 ppb	8,356.411 ppb	6,769.941 ppb	98.222 %
Concentration per Run 1	87.193 %	89.702 %	45.760 ppb	15,448.509 ppb	13,159.725 ppb	16,349.337 ppb	8,107.983 ppb	6,480.352 ppb	98.132 %
Concentration per Run 2	88.703 %	86.721 %	45.021 ppb	15,974.364 ppb	13,612.481 ppb	17,135.590 ppb	8,540.866 ppb	7,063.060 ppb	98.095 %
Concentration per Run 3	88.713 %	92.683 %	44.991 ppb	15,135.128 ppb	13,174.687 ppb	16,658.959 ppb	8,420.385 ppb	6,766.412 ppb	98.441 %
Concentration RSD	1.0 %	3.3 %	1.0 %	2.7 %	1.9 %	2.4 %	2.7 %	4.3 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	91.433 ppb	84.697 ppb	579.081 ppb	47,260.865 ppb	57.270 ppb	75.670 ppb	62.569 ppb	134.596 ppb	88.404 %
Concentration per Run 1	89.617 ppb	84.180 ppb	576.961 ppb	46,480.538 ppb	56.331 ppb	73.996 ppb	63.321 ppb	134.393 ppb	87.494 %
Concentration per Run 2	92.164 ppb	86.594 ppb	589.108 ppb	48,418.540 ppb	57.746 ppb	75.525 ppb	62.369 ppb	136.603 ppb	88.181 %
Concentration per Run 3	92.518 ppb	83.318 ppb	571.175 ppb	46,883.517 ppb	57.734 ppb	77.491 ppb	62.016 ppb	132.792 ppb	89.537 %
Concentration RSD	1.7 %	2.0 %	1.6 %	2.2 %	1.4 %	2.3 %	1.1 %	1.4 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	63.686 ppb	59.846 ppb	87.839 ppb	58.259 ppb	79.958 %	2.065 ppb	48.732 ppb	83.599 %	50.047 ppb
Concentration per Run 1	63.351 ppb	58.540 ppb	87.723 ppb	55.434 ppb	77.988 %	2.058 ppb	48.695 ppb	82.582 %	49.767 ppb
Concentration per Run 2	64.225 ppb	59.779 ppb	88.611 ppb	59.081 ppb	80.429 %	2.048 ppb	48.747 ppb	84.134 %	49.907 ppb
Concentration per Run 3	63.481 ppb	61.218 ppb	87.185 ppb	60.264 ppb	81.455 %	2.089 ppb	48.754 ppb	84.082 %	50.467 ppb
Concentration RSD	0.7 %	2.2 %	0.8 %	4.3 %	2.2 %	1.0 %	0.1 %	1.1 %	0.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	80.645 ppb	82.633 %	81.358 %	51.384 ppb	67.794 ppb	79.833 %
Concentration per Run 1	81.378 ppb	80.804 %	79.485 %	50.943 ppb	67.697 ppb	78.555 %
Concentration per Run 2	78.805 ppb	83.221 %	82.062 %	51.357 ppb	68.121 ppb	79.978 %
Concentration per Run 3	81.753 ppb	83.873 %	82.529 %	51.852 ppb	67.564 ppb	80.966 %
Concentration RSD	2.0 %	2.0 %	2.0 %	0.9 %	0.4 %	1.5 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 69 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1805093-14D50 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 6:36:34 PM Vial: 13

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.273 %	87.714 %	0.239 ppb	2,233.415 ppb	1,802.086 ppb	3,450.555 ppb	754.138 ppb	407.891 ppb	90.433 %
Concentration per Run 1	89.016 %	84.282 %	0.258 ppb	2,249.260 ppb	1,817.118 ppb	3,481.393 ppb	759.709 ppb	415.855 ppb	90.128 %
Concentration per Run 2	87.594 %	87.534 %	0.239 ppb	2,266.278 ppb	1,857.463 ppb	3,462.490 ppb	762.450 ppb	383.392 ppb	90.000 %
Concentration per Run 3	88.209 %	91.328 %	0.221 ppb	2,184.706 ppb	1,731.676 ppb	3,407.782 ppb	740.254 ppb	424.424 ppb	91.170 %
Concentration RSD	0.8 %	4.0 %	7.8 %	1.9 %	3.6 %	1.1 %	1.6 %	5.3 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	8.693 ppb	7.648 ppb	108.411 ppb	8,683.191 ppb	2.275 ppb	5.730 ppb	3.702 ppb	18.500 ppb	91.750 %
Concentration per Run 1	9.226 ppb	7.710 ppb	110.017 ppb	8,749.747 ppb	2.294 ppb	5.955 ppb	3.970 ppb	18.426 ppb	88.920 %
Concentration per Run 2	8.240 ppb	7.492 ppb	106.978 ppb	8,578.850 ppb	2.232 ppb	5.688 ppb	3.606 ppb	18.391 ppb	94.400 %
Concentration per Run 3	8.613 ppb	7.740 ppb	108.237 ppb	8,720.977 ppb	2.299 ppb	5.548 ppb	3.529 ppb	18.685 ppb	91.929 %
Concentration RSD	5.7 %	1.8 %	1.4 %	1.1 %	1.6 %	3.6 %	6.4 %	0.9 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.516 ppb	3.304 ppb	6.817 ppb	1.605 ppb	86.967 %	0.017 ppb	0.016 ppb	88.379 %	0.013 ppb
Concentration per Run 1	3.583 ppb	2.564 ppb	6.767 ppb	1.564 ppb	86.520 %	0.012 ppb	0.032 ppb	87.335 %	-0.010 ppb
Concentration per Run 2	3.385 ppb	3.863 ppb	6.814 ppb	1.571 ppb	85.918 %	0.024 ppb	0.009 ppb	88.294 %	0.012 ppb
Concentration per Run 3	3.579 ppb	3.484 ppb	6.872 ppb	1.679 ppb	88.464 %	0.016 ppb	0.008 ppb	89.506 %	0.035 ppb
Concentration RSD	3.2 %	20.2 %	0.8 %	4.0 %	1.5 %	35.9 %	81.9 %	1.2 %	178.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	5.579 ppb	86.435 %	85.861 %	0.332 ppb	3.329 ppb	87.820 %
Concentration per Run 1	5.717 ppb	85.224 %	84.663 %	0.323 ppb	3.289 ppb	86.820 %
Concentration per Run 2	5.424 ppb	87.134 %	86.116 %	0.384 ppb	3.297 ppb	87.772 %
Concentration per Run 3	5.596 ppb	86.946 %	86.804 %	0.290 ppb	3.401 ppb	88.867 %
Concentration RSD	2.6 %	1.2 %	1.3 %	14.3 %	1.9 %	1.2 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 70 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/13/2023 6:41:03 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.179 %	81.120 %	55.691 ppb	5,565.613 ppb	5,697.583 ppb	61.973 ppb	5,614.538 ppb	5,557.404 ppb	84.919 %
Concentration per Run 1	81.854 %	82.656 %	56.910 ppb	5,529.270 ppb	5,582.646 ppb	61.218 ppb	5,501.264 ppb	5,555.399 ppb	84.917 %
Concentration per Run 2	83.289 %	83.198 %	55.205 ppb	5,440.299 ppb	5,544.950 ppb	59.740 ppb	5,554.995 ppb	5,518.133 ppb	85.449 %
Concentration per Run 3	84.393 %	77.507 %	54.958 ppb	5,727.269 ppb	5,965.152 ppb	64.960 ppb	5,787.355 ppb	5,598.680 ppb	84.390 %
Recovery Percentage 1			92.818 %	92.760 %	94.960 %	103.288 %	93.576 %	92.623 %	
Concentration RSD	1.5 %	3.9 %	1.9 %	2.6 %	4.1 %	4.3 %	2.7 %	0.7 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	56.577 ppb	56.052 ppb	57.152 ppb	5,701.248 ppb	56.657 ppb	56.607 ppb	57.080 ppb	57.852 ppb	86.136 %
Concentration per Run 1	55.257 ppb	54.252 ppb	56.353 ppb	5,593.206 ppb	55.483 ppb	55.392 ppb	55.470 ppb	57.378 ppb	86.938 %
Concentration per Run 2	57.684 ppb	57.267 ppb	58.536 ppb	5,816.951 ppb	57.082 ppb	56.877 ppb	58.929 ppb	58.517 ppb	84.452 %
Concentration per Run 3	56.791 ppb	56.638 ppb	56.566 ppb	5,693.586 ppb	57.407 ppb	57.552 ppb	56.842 ppb	57.662 ppb	87.018 %
Recovery Percentage 1	94.295 %	93.421 %	95.253 %	95.021 %	94.429 %	94.345 %	95.134 %	96.421 %	
Concentration RSD	2.2 %	2.8 %	2.1 %	2.0 %	1.8 %	2.0 %	3.1 %	1.0 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	56.728 ppb	61.958 ppb	53.201 ppb	59.652 ppb	83.173 %	56.581 ppb	57.583 ppb	84.424 %	57.472 ppb
Concentration per Run 1	55.557 ppb	59.852 ppb	52.633 ppb	58.970 ppb	82.008 %	56.451 ppb	56.872 ppb	82.668 %	57.538 ppb
Concentration per Run 2	58.132 ppb	61.937 ppb	53.828 ppb	59.568 ppb	83.222 %	56.703 ppb	57.605 ppb	85.666 %	57.452 ppb
Concentration per Run 3	56.496 ppb	64.083 ppb	53.141 ppb	60.419 ppb	84.290 %	56.588 ppb	58.273 ppb	84.940 %	57.428 ppb
Recovery Percentage 1	94.547 %	103.263 %	88.668 %	99.420 %		94.302 %	95.972 %		95.787 %
Concentration RSD	2.3 %	3.4 %	1.1 %	1.2 %	1.4 %	0.2 %	1.2 %	1.9 %	0.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	55.847 ppb	85.116 %	84.916 %	57.643 ppb	56.261 ppb	82.218 %
Concentration per Run 1	55.002 ppb	83.610 %	83.926 %	57.053 ppb	56.346 ppb	80.586 %
Concentration per Run 2	56.312 ppb	85.157 %	84.148 %	56.755 ppb	56.148 ppb	82.841 %
Concentration per Run 3	56.228 ppb	86.581 %	86.674 %	59.120 ppb	56.290 ppb	83.227 %
Recovery Percentage 1	93.079 %			96.071 %	93.769 %	
Concentration RSD	1.3 %	1.7 %	1.8 %	2.2 %	0.2 %	1.7 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 71 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/13/2023 6:45:35 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.038 %	87.082 %	0.008 ppb	-4.275 ppb	-1.584 ppb	-0.571 ppb	-11.526 ppb	-9.563 ppb	86.654 %
Concentration per Run 1	84.817 %	84.282 %	0.004 ppb	-3.985 ppb	-1.411 ppb	-0.291 ppb	-11.829 ppb	-4.379 ppb	86.701 %
Concentration per Run 2	85.407 %	91.870 %	0.014 ppb	-4.938 ppb	-3.021 ppb	-0.760 ppb	-12.233 ppb	-14.443 ppb	87.225 %
Concentration per Run 3	84.890 %	85.095 %	0.006 ppb	-3.904 ppb	-0.321 ppb	-0.662 ppb	-10.517 ppb	-9.867 ppb	86.035 %
Recovery Percentage 1			1.615 %	-4.275 %	-2.263 %	-5.710 %	-11.526 %	-9.563 %	
Concentration RSD	0.4 %	4.8 %	64.9 %	13.4 %	85.7 %	43.4 %	7.8 %	52.7 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.008 ppb	-0.020 ppb	-0.166 ppb	2.754 ppb	0.009 ppb	-0.064 ppb	-0.043 ppb	-0.750 ppb	87.061 %
Concentration per Run 1	-0.016 ppb	-0.017 ppb	-0.149 ppb	0.063 ppb	0.018 ppb	-0.056 ppb	-0.023 ppb	-0.722 ppb	85.880 %
Concentration per Run 2	-0.001 ppb	-0.011 ppb	-0.196 ppb	2.236 ppb	0.006 ppb	-0.079 ppb	-0.050 ppb	-0.796 ppb	87.711 %
Concentration per Run 3	-0.008 ppb	-0.033 ppb	-0.153 ppb	5.964 ppb	0.001 ppb	-0.058 ppb	-0.056 ppb	-0.732 ppb	87.592 %
Recovery Percentage 1	-0.170 %	-2.040 %	-16.608 %	5.509 %	1.715 %	-3.211 %	-4.321 %	-15.000 %	
Concentration RSD	87.5 %	55.3 %	15.8 %	108.4 %	98.3 %	20.5 %	41.4 %	5.4 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.287 ppb	1.710 ppb	0.012 ppb	1.136 ppb	87.394 %	0.003 ppb	0.002 ppb	87.630 %	-0.024 ppb
Concentration per Run 1	0.230 ppb	1.502 ppb	0.028 ppb	1.077 ppb	85.187 %	0.005 ppb	0.011 ppb	86.670 %	-0.034 ppb
Concentration per Run 2	0.264 ppb	2.007 ppb	0.002 ppb	1.140 ppb	88.015 %	0.009 ppb	-0.007 ppb	88.195 %	-0.021 ppb
Concentration per Run 3	0.366 ppb	1.623 ppb	0.005 ppb	1.192 ppb	88.978 %	-0.003 ppb	0.002 ppb	88.027 %	-0.018 ppb
Recovery Percentage 1	57.308 %	34.209 %	0.116 %	56.821 %		0.865 %	1.028 %		-0.611 %
Concentration RSD	24.8 %	15.4 %	122.4 %	5.1 %	2.3 %	166.6 %	449.2 %	1.0 %	35.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.022 ppb	86.595 %	86.333 %	0.360 ppb	0.004 ppb	86.557 %
Concentration per Run 1	-0.065 ppb	84.892 %	84.596 %	0.343 ppb	0.006 ppb	85.689 %
Concentration per Run 2	0.059 ppb	86.345 %	86.682 %	0.416 ppb	0.004 ppb	86.117 %
Concentration per Run 3	-0.060 ppb	88.550 %	87.722 %	0.321 ppb	0.003 ppb	87.865 %
Recovery Percentage 1	-4.426 %			35.976 %		0.426 %
Concentration RSD	316.0 %	2.1 %	1.8 %	13.8 %	28.0 %	1.3 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 72 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: I2341121-13D10 A2-6020T Rack 2
 Analysis started at: 8/13/2023 6:50:08 PM Vial 22

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.719 %	99.548 %	1.141 ppb	8,365.027 ppb	8,795.683 ppb	18,698.816 ppb	3,667.102 ppb	2,061.541 ppb	101.716 %
Concentration per Run 1	94.526 %	99.458 %	1.140 ppb	8,174.069 ppb	8,623.186 ppb	18,548.242 ppb	3,587.012 ppb	1,967.980 ppb	100.781 %
Concentration per Run 2	95.362 %	95.122 %	1.139 ppb	8,784.576 ppb	9,183.548 ppb	19,323.768 ppb	3,740.156 ppb	2,141.803 ppb	103.172 %
Concentration per Run 3	94.268 %	104.065 %	1.145 ppb	8,136.435 ppb	8,580.317 ppb	18,224.438 ppb	3,674.137 ppb	2,074.840 ppb	101.194 %
Concentration RSD	0.6 %	4.5 %	0.3 %	4.3 %	3.8 %	3.0 %	2.1 %	4.3 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	51.181 ppb	40.986 ppb	690.894 ppb	41,280.676 ppb	13.866 ppb	33.033 ppb	19.641 ppb	96.218 ppb	91.304 %
Concentration per Run 1	48.958 ppb	39.050 ppb	661.323 ppb	39,969.941 ppb	13.553 ppb	32.395 ppb	18.671 ppb	93.236 ppb	91.933 %
Concentration per Run 2	52.803 ppb	42.726 ppb	719.257 ppb	42,532.897 ppb	14.463 ppb	34.465 ppb	20.767 ppb	99.437 ppb	89.996 %
Concentration per Run 3	51.783 ppb	41.183 ppb	692.103 ppb	41,339.190 ppb	13.583 ppb	32.237 ppb	19.485 ppb	95.981 ppb	91.982 %
Concentration RSD	3.9 %	4.5 %	4.2 %	3.1 %	3.7 %	3.8 %	5.4 %	3.2 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	15.226 ppb	10.166 ppb	37.436 ppb	2.442 ppb	83.799 %	0.094 ppb	0.130 ppb	87.187 %	0.040 ppb
Concentration per Run 1	14.862 ppb	8.840 ppb	36.578 ppb	2.063 ppb	82.260 %	0.088 ppb	0.130 ppb	86.034 %	0.025 ppb
Concentration per Run 2	15.587 ppb	10.313 ppb	37.905 ppb	2.585 ppb	83.765 %	0.098 ppb	0.123 ppb	86.070 %	0.056 ppb
Concentration per Run 3	15.229 ppb	11.347 ppb	37.826 ppb	2.679 ppb	85.372 %	0.096 ppb	0.136 ppb	89.457 %	0.039 ppb
Concentration RSD	2.4 %	12.4 %	2.0 %	13.6 %	1.9 %	5.4 %	5.3 %	2.3 %	38.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	37.797 ppb	82.869 %	80.067 %	0.263 ppb	21.091 ppb	83.137 %
Concentration per Run 1	36.431 ppb	80.654 %	78.224 %	0.225 ppb	20.970 ppb	81.766 %
Concentration per Run 2	38.311 ppb	83.738 %	80.144 %	0.284 ppb	21.106 ppb	83.105 %
Concentration per Run 3	38.648 ppb	84.215 %	81.834 %	0.280 ppb	21.198 ppb	84.539 %
Concentration RSD	3.2 %	2.3 %	2.3 %	12.6 %	0.5 %	1.7 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 73 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: I2341121-14D10 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 6:54:39 PM Vial: 23

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.008 %	95.393 %	0.925 ppb	8,805.428 ppb	7,482.720 ppb	14,735.945 ppb	3,232.274 ppb	2,452.896 ppb	100.307 %
Concentration per Run 1	93.316 %	95.935 %	0.956 ppb	8,523.063 ppb	7,487.808 ppb	14,434.953 ppb	3,203.032 ppb	2,407.414 ppb	101.211 %
Concentration per Run 2	93.291 %	92.412 %	0.919 ppb	9,225.587 ppb	7,664.508 ppb	15,120.234 ppb	3,300.758 ppb	2,562.687 ppb	100.464 %
Concentration per Run 3	92.418 %	97.832 %	0.900 ppb	8,667.633 ppb	7,295.842 ppb	14,652.646 ppb	3,193.033 ppb	2,388.587 ppb	99.247 %
Concentration RSD	0.5 %	2.9 %	3.1 %	4.2 %	2.5 %	2.4 %	1.8 %	3.9 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	46.672 ppb	37.441 ppb	536.392 ppb	35,606.504 ppb	10.342 ppb	25.438 ppb	16.889 ppb	71.598 ppb	90.660 %
Concentration per Run 1	45.601 ppb	36.296 ppb	527.396 ppb	34,924.156 ppb	10.352 ppb	24.795 ppb	17.146 ppb	71.714 ppb	89.733 %
Concentration per Run 2	47.611 ppb	39.010 ppb	552.200 ppb	37,108.272 ppb	10.511 ppb	26.441 ppb	17.223 ppb	72.893 ppb	89.539 %
Concentration per Run 3	46.804 ppb	37.017 ppb	529.579 ppb	34,787.084 ppb	10.164 ppb	25.079 ppb	16.300 ppb	70.188 ppb	92.707 %
Concentration RSD	2.2 %	3.8 %	2.6 %	3.7 %	1.7 %	3.5 %	3.0 %	1.9 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.343 ppb	8.862 ppb	40.348 ppb	2.941 ppb	84.379 %	0.060 ppb	0.103 ppb	87.595 %	0.007 ppb
Concentration per Run 1	12.179 ppb	8.708 ppb	40.083 ppb	2.734 ppb	83.304 %	0.058 ppb	0.111 ppb	84.135 %	-0.002 ppb
Concentration per Run 2	12.921 ppb	8.932 ppb	40.954 ppb	2.652 ppb	84.129 %	0.060 ppb	0.093 ppb	88.473 %	0.023 ppb
Concentration per Run 3	11.929 ppb	8.946 ppb	40.007 ppb	3.439 ppb	85.703 %	0.064 ppb	0.104 ppb	90.177 %	0.000 ppb
Concentration RSD	4.2 %	1.5 %	1.3 %	14.7 %	1.4 %	4.8 %	8.9 %	3.6 %	189.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	28.640 ppb	84.753 %	82.710 %	0.169 ppb	15.388 ppb	83.762 %
Concentration per Run 1	29.881 ppb	82.776 %	81.108 %	0.153 ppb	15.471 ppb	82.012 %
Concentration per Run 2	28.762 ppb	84.996 %	82.974 %	0.170 ppb	15.230 ppb	84.394 %
Concentration per Run 3	27.278 ppb	86.486 %	84.047 %	0.183 ppb	15.463 ppb	84.880 %
Concentration RSD	4.6 %	2.2 %	1.8 %	8.8 %	0.9 %	1.8 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 74 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: I2341121-15D10 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 6:59:09 PM Vial: 24

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.839 %	94.670 %	0.492 ppb	9,086.564 ppb	5,542.848 ppb	11,920.708 ppb	2,641.943 ppb	1,657.457 ppb	96.485 %
Concentration per Run 1	91.600 %	91.599 %	0.512 ppb	9,393.099 ppb	5,643.655 ppb	12,026.352 ppb	2,617.022 ppb	1,637.930 ppb	96.270 %
Concentration per Run 2	92.420 %	98.645 %	0.457 ppb	8,945.674 ppb	5,510.132 ppb	11,825.173 ppb	2,658.463 ppb	1,646.921 ppb	96.645 %
Concentration per Run 3	91.498 %	93.767 %	0.507 ppb	8,920.920 ppb	5,474.757 ppb	11,910.600 ppb	2,650.345 ppb	1,687.519 ppb	96.539 %
Concentration RSD	0.6 %	3.8 %	6.2 %	2.9 %	1.6 %	0.8 %	0.8 %	1.6 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	38.665 ppb	29.313 ppb	133.433 ppb	19,243.467 ppb	6.769 ppb	19.778 ppb	10.433 ppb	52.797 ppb	87.933 %
Concentration per Run 1	37.910 ppb	29.135 ppb	136.480 ppb	19,445.392 ppb	6.821 ppb	19.705 ppb	10.449 ppb	53.400 ppb	86.275 %
Concentration per Run 2	38.777 ppb	29.741 ppb	133.952 ppb	19,352.446 ppb	6.824 ppb	19.861 ppb	10.560 ppb	54.711 ppb	84.401 %
Concentration per Run 3	39.308 ppb	29.063 ppb	129.867 ppb	18,932.564 ppb	6.664 ppb	19.768 ppb	10.290 ppb	50.281 ppb	93.123 %
Concentration RSD	1.8 %	1.3 %	2.5 %	1.4 %	1.4 %	0.4 %	1.3 %	4.3 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.008 ppb	6.083 ppb	31.207 ppb	11.697 ppb	84.682 %	0.030 ppb	0.060 ppb	86.615 %	-0.032 ppb
Concentration per Run 1	4.002 ppb	5.579 ppb	31.380 ppb	11.398 ppb	82.752 %	0.028 ppb	0.073 ppb	85.130 %	-0.039 ppb
Concentration per Run 2	4.109 ppb	6.845 ppb	31.930 ppb	11.917 ppb	84.936 %	0.026 ppb	0.059 ppb	86.737 %	-0.034 ppb
Concentration per Run 3	3.913 ppb	5.825 ppb	30.310 ppb	11.774 ppb	86.358 %	0.036 ppb	0.047 ppb	87.979 %	-0.022 ppb
Concentration RSD	2.4 %	11.0 %	2.6 %	2.3 %	2.1 %	17.8 %	21.4 %	1.6 %	27.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	18.939 ppb	84.185 %	82.361 %	0.149 ppb	9.692 ppb	83.388 %
Concentration per Run 1	18.806 ppb	81.639 %	80.161 %	0.133 ppb	9.591 ppb	81.627 %
Concentration per Run 2	18.990 ppb	84.904 %	82.575 %	0.157 ppb	9.710 ppb	84.136 %
Concentration per Run 3	19.019 ppb	86.012 %	84.345 %	0.158 ppb	9.774 ppb	84.400 %
Concentration RSD	0.6 %	2.7 %	2.5 %	9.7 %	1.0 %	1.8 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 75 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: I2341121-16D10 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 7:03:40 PM Vial: 25

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.613 %	86.992 %	0.446 ppb	11,964.755 ppb	5,770.332 ppb	11,272.633 ppb	2,510.689 ppb	1,787.095 ppb	95.187 %
Concentration per Run 1	90.436 %	81.301 %	0.422 ppb	12,304.528 ppb	5,976.429 ppb	11,597.885 ppb	2,571.904 ppb	1,830.580 ppb	95.443 %
Concentration per Run 2	90.468 %	88.076 %	0.438 ppb	12,021.833 ppb	5,791.678 ppb	11,306.716 ppb	2,482.398 ppb	1,707.330 ppb	95.105 %
Concentration per Run 3	90.934 %	91.599 %	0.478 ppb	11,567.903 ppb	5,542.890 ppb	10,913.297 ppb	2,477.765 ppb	1,823.375 ppb	95.014 %
Concentration RSD	0.3 %	6.0 %	6.5 %	3.1 %	3.8 %	3.0 %	2.1 %	3.9 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	35.303 ppb	26.695 ppb	128.404 ppb	21,719.261 ppb	7.061 ppb	19.077 ppb	11.269 ppb	59.217 ppb	89.404 %
Concentration per Run 1	35.331 ppb	26.696 ppb	128.988 ppb	21,857.761 ppb	6.946 ppb	18.725 ppb	11.053 ppb	59.811 ppb	87.898 %
Concentration per Run 2	36.443 ppb	26.952 ppb	130.464 ppb	21,643.895 ppb	7.095 ppb	19.691 ppb	11.367 ppb	59.341 ppb	89.226 %
Concentration per Run 3	34.134 ppb	26.435 ppb	125.759 ppb	21,656.128 ppb	7.143 ppb	18.815 ppb	11.387 ppb	58.501 ppb	91.089 %
Concentration RSD	3.3 %	1.0 %	1.9 %	0.6 %	1.5 %	2.8 %	1.7 %	1.1 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.916 ppb	5.461 ppb	31.926 ppb	14.358 ppb	84.491 %	0.032 ppb	0.100 ppb	85.490 %	-0.020 ppb
Concentration per Run 1	3.817 ppb	5.934 ppb	31.467 ppb	13.928 ppb	82.665 %	0.028 ppb	0.089 ppb	81.886 %	-0.027 ppb
Concentration per Run 2	4.032 ppb	4.943 ppb	32.407 ppb	14.611 ppb	85.030 %	0.032 ppb	0.112 ppb	86.930 %	-0.006 ppb
Concentration per Run 3	3.901 ppb	5.507 ppb	31.905 ppb	14.537 ppb	85.778 %	0.035 ppb	0.097 ppb	87.656 %	-0.026 ppb
Concentration RSD	2.8 %	9.1 %	1.5 %	2.6 %	1.9 %	11.1 %	11.5 %	3.7 %	59.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	16.410 ppb	83.517 %	81.897 %	0.183 ppb	15.711 ppb	82.572 %
Concentration per Run 1	16.633 ppb	81.611 %	80.734 %	0.170 ppb	15.717 ppb	80.499 %
Concentration per Run 2	16.064 ppb	84.610 %	82.218 %	0.183 ppb	15.786 ppb	82.702 %
Concentration per Run 3	16.533 ppb	84.330 %	82.739 %	0.195 ppb	15.630 ppb	84.515 %
Concentration RSD	1.9 %	2.0 %	1.3 %	7.1 %	0.5 %	2.4 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 76 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: I2341121-17D10 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 7:08:09 PM Vial: 26

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.146 %	93.948 %	1.230 ppb	9,273.819 ppb	8,160.882 ppb	18,288.210 ppb	3,881.651 ppb	2,028.778 ppb	97.506 %
Concentration per Run 1	89.476 %	89.431 %	1.178 ppb	9,452.958 ppb	8,307.343 ppb	18,798.075 ppb	3,929.217 ppb	2,003.639 ppb	98.304 %
Concentration per Run 2	88.822 %	99.187 %	1.243 ppb	9,098.099 ppb	7,955.596 ppb	17,786.391 ppb	3,794.067 ppb	1,992.900 ppb	97.461 %
Concentration per Run 3	89.139 %	93.225 %	1.268 ppb	9,270.399 ppb	8,219.709 ppb	18,280.165 ppb	3,921.669 ppb	2,089.796 ppb	96.754 %
Concentration RSD	0.4 %	5.2 %	3.8 %	1.9 %	2.2 %	2.8 %	2.0 %	2.6 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.694 ppb	38.781 ppb	326.967 ppb	68,328.534 ppb	12.340 ppb	33.425 ppb	15.661 ppb	108.487 ppb	88.810 %
Concentration per Run 1	47.814 ppb	39.109 ppb	328.551 ppb	68,602.933 ppb	12.554 ppb	34.198 ppb	15.643 ppb	108.709 ppb	87.985 %
Concentration per Run 2	47.274 ppb	38.649 ppb	325.511 ppb	68,626.914 ppb	12.293 ppb	33.485 ppb	15.284 ppb	109.048 ppb	88.741 %
Concentration per Run 3	47.993 ppb	38.586 ppb	326.839 ppb	67,755.754 ppb	12.172 ppb	32.592 ppb	16.055 ppb	107.704 ppb	89.703 %
Concentration RSD	0.8 %	0.7 %	0.5 %	0.7 %	1.6 %	2.4 %	2.5 %	0.6 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	25.916 ppb	10.694 ppb	37.572 ppb	8.455 ppb	80.582 %	0.051 ppb	0.122 ppb	85.401 %	0.072 ppb
Concentration per Run 1	25.823 ppb	9.910 ppb	37.479 ppb	8.291 ppb	79.327 %	0.062 ppb	0.127 ppb	83.924 %	0.078 ppb
Concentration per Run 2	25.727 ppb	11.230 ppb	37.787 ppb	8.616 ppb	81.123 %	0.046 ppb	0.099 ppb	85.642 %	0.058 ppb
Concentration per Run 3	26.199 ppb	10.943 ppb	37.450 ppb	8.458 ppb	81.296 %	0.046 ppb	0.140 ppb	86.638 %	0.081 ppb
Concentration RSD	1.0 %	6.5 %	0.5 %	1.9 %	1.4 %	17.6 %	17.2 %	1.6 %	17.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	29.727 ppb	84.325 %	82.775 %	0.173 ppb	18.600 ppb	80.453 %
Concentration per Run 1	29.182 ppb	82.998 %	81.793 %	0.168 ppb	18.725 ppb	78.599 %
Concentration per Run 2	30.310 ppb	84.889 %	83.011 %	0.176 ppb	18.340 ppb	81.883 %
Concentration per Run 3	29.687 ppb	85.088 %	83.520 %	0.176 ppb	18.735 ppb	80.879 %
Concentration RSD	1.9 %	1.4 %	1.1 %	2.7 %	1.2 %	2.1 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 77 User name ALPHALAB\la2-icpmsq Comment <Comment>
 Analysis label: L2344357-01 6020TL Rack 1
 Analysis started at: 8/13/2023 7:12:39 PM Vial 43

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.057 %	74.074 %	0.337 ppb	42,055.082 ppb	6,557.211 ppb	3,838.765 ppb	2,867.757 ppb	70,534.688 ppb	81.896 %
Concentration per Run 1	73.869 %	78.591 %	0.340 ppb	39,342.585 ppb	6,079.409 ppb	3,605.295 ppb	2,735.767 ppb	67,530.100 ppb	80.937 %
Concentration per Run 2	75.380 %	69.647 %	0.338 ppb	43,519.693 ppb	6,857.712 ppb	4,007.081 ppb	3,000.853 ppb	74,171.739 ppb	82.489 %
Concentration per Run 3	75.922 %	73.984 %	0.333 ppb	43,302.969 ppb	6,734.513 ppb	3,903.918 ppb	2,866.652 ppb	69,902.224 ppb	82.261 %
Concentration RSD	1.4 %	6.0 %	1.0 %	5.6 %	6.4 %	5.4 %	4.6 %	4.8 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	20.712 ppb	275.991 ppb	3,266.906 ppb	13,735.356 ppb	8.031 ppb	254.858 ppb	55.691 ppb	149.643 ppb	77.947 %
Concentration per Run 1	20.295 ppb	269.056 ppb	3,179.261 ppb	13,321.205 ppb	7.896 ppb	250.788 ppb	54.656 ppb	149.297 ppb	76.314 %
Concentration per Run 2	21.583 ppb	285.047 ppb	3,339.251 ppb	13,981.997 ppb	8.091 ppb	256.901 ppb	56.339 ppb	151.026 ppb	77.651 %
Concentration per Run 3	20.259 ppb	273.869 ppb	3,282.206 ppb	13,902.866 ppb	8.106 ppb	256.885 ppb	56.079 ppb	148.608 ppb	79.876 %
Concentration RSD	3.6 %	3.0 %	2.5 %	2.6 %	1.5 %	1.4 %	1.6 %	0.8 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	33.343 ppb	5.011 ppb	404.759 ppb	7.630 ppb	72.004 %	0.190 ppb	3.398 ppb	76.817 %	0.397 ppb
Concentration per Run 1	33.758 ppb	5.186 ppb	404.336 ppb	7.430 ppb	70.607 %	0.178 ppb	3.353 ppb	74.203 %	0.435 ppb
Concentration per Run 2	33.411 ppb	5.372 ppb	408.695 ppb	7.752 ppb	72.029 %	0.209 ppb	3.265 ppb	78.599 %	0.379 ppb
Concentration per Run 3	32.859 ppb	4.477 ppb	401.245 ppb	7.707 ppb	73.377 %	0.182 ppb	3.576 ppb	77.648 %	0.376 ppb
Concentration RSD	1.4 %	9.4 %	0.9 %	2.3 %	1.9 %	8.8 %	4.7 %	3.0 %	8.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	361.360 ppb	75.461 %	73.280 %	0.065 ppb	11.550 ppb	72.124 %
Concentration per Run 1	359.248 ppb	72.720 %	71.916 %	0.050 ppb	11.600 ppb	70.546 %
Concentration per Run 2	358.472 ppb	76.034 %	73.432 %	0.077 ppb	11.515 ppb	72.200 %
Concentration per Run 3	366.358 ppb	77.629 %	74.491 %	0.070 ppb	11.536 ppb	73.625 %
Concentration RSD	1.2 %	3.3 %	1.8 %	21.3 %	0.4 %	2.1 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 78 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1810773-7D10 6020TL Rack: 1
 Analysis started at: 8/13/2023 7:17:08 PM Vial: 44

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.987 %	74.706 %	5.117 ppb	5,384.500 ppb	1,717.257 ppb	637.057 ppb	1,311.701 ppb	8,279.322 ppb	81.031 %
Concentration per Run 1	77.334 %	70.461 %	5.054 ppb	5,465.591 ppb	1,744.780 ppb	650.901 ppb	1,287.042 ppb	8,267.850 ppb	80.820 %
Concentration per Run 2	77.760 %	79.404 %	5.204 ppb	5,102.144 ppb	1,635.210 ppb	614.934 ppb	1,292.270 ppb	8,013.904 ppb	80.948 %
Concentration per Run 3	78.865 %	74.255 %	5.092 ppb	5,585.766 ppb	1,771.782 ppb	645.337 ppb	1,355.792 ppb	8,556.210 ppb	81.324 %
Concentration RSD	1.0 %	6.0 %	1.5 %	4.7 %	4.2 %	3.0 %	2.9 %	3.3 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	52.104 ppb	47.886 ppb	373.656 ppb	1,357.298 ppb	50.425 ppb	75.920 ppb	31.442 ppb	67.776 ppb	82.870 %
Concentration per Run 1	53.554 ppb	48.533 ppb	375.859 ppb	1,364.967 ppb	50.440 ppb	76.403 ppb	30.742 ppb	67.499 ppb	82.739 %
Concentration per Run 2	50.230 ppb	46.165 ppb	360.971 ppb	1,312.773 ppb	49.652 ppb	74.242 ppb	30.407 ppb	65.804 ppb	84.022 %
Concentration per Run 3	52.529 ppb	48.961 ppb	384.138 ppb	1,394.153 ppb	51.184 ppb	77.115 ppb	33.176 ppb	70.025 ppb	81.849 %
Concentration RSD	3.3 %	3.1 %	3.1 %	3.0 %	1.5 %	2.0 %	4.8 %	3.1 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	15.795 ppb	11.608 ppb	141.627 ppb	99.691 ppb	80.796 %	5.181 ppb	5.971 ppb	81.611 %	45.186 ppb
Concentration per Run 1	15.294 ppb	12.006 ppb	141.267 ppb	98.736 ppb	78.264 %	5.223 ppb	6.016 ppb	79.868 %	45.119 ppb
Concentration per Run 2	16.187 ppb	11.223 ppb	140.991 ppb	98.182 ppb	81.627 %	5.111 ppb	5.873 ppb	82.684 %	44.647 ppb
Concentration per Run 3	15.903 ppb	11.594 ppb	142.624 ppb	102.154 ppb	82.498 %	5.207 ppb	6.025 ppb	82.280 %	45.792 ppb
Concentration RSD	2.9 %	3.4 %	0.6 %	2.2 %	2.8 %	1.2 %	1.4 %	1.9 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	237.079 ppb	81.698 %	80.776 %	12.229 ppb	54.916 ppb	81.381 %
Concentration per Run 1	237.442 ppb	79.685 %	79.326 %	12.002 ppb	54.527 ppb	81.156 %
Concentration per Run 2	235.511 ppb	81.659 %	80.505 %	12.343 ppb	55.263 ppb	80.780 %
Concentration per Run 3	238.284 ppb	83.750 %	82.498 %	12.343 ppb	54.958 ppb	82.206 %
Concentration RSD	0.6 %	2.5 %	2.0 %	1.6 %	0.7 %	0.9 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 79 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1810773-8D10 6020TL Rack: 1
 Analysis started at: 8/13/2023 7:21:37 PM Vial: 45

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.413 %	83.378 %	5.124 ppb	5,072.211 ppb	1,636.231 ppb	602.904 ppb	1,220.907 ppb	8,017.590 ppb	81.440 %
Concentration per Run 1	77.815 %	88.618 %	5.176 ppb	4,854.269 ppb	1,561.244 ppb	573.008 ppb	1,207.662 ppb	7,821.524 ppb	80.238 %
Concentration per Run 2	79.327 %	81.301 %	5.128 ppb	5,106.313 ppb	1,658.670 ppb	621.503 ppb	1,248.895 ppb	8,137.786 ppb	81.036 %
Concentration per Run 3	81.097 %	80.217 %	5.067 ppb	5,256.052 ppb	1,688.780 ppb	614.200 ppb	1,206.165 ppb	8,093.460 ppb	83.045 %
Concentration RSD	2.1 %	5.5 %	1.1 %	4.0 %	4.1 %	4.3 %	2.0 %	2.1 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	50.653 ppb	47.159 ppb	366.661 ppb	1,298.284 ppb	49.890 ppb	75.696 ppb	31.433 ppb	68.161 ppb	83.006 %
Concentration per Run 1	50.228 ppb	47.085 ppb	362.112 ppb	1,279.162 ppb	50.329 ppb	76.629 ppb	31.638 ppb	69.133 ppb	79.652 %
Concentration per Run 2	51.556 ppb	47.733 ppb	371.652 ppb	1,326.258 ppb	51.086 ppb	76.277 ppb	30.649 ppb	67.504 ppb	83.017 %
Concentration per Run 3	50.175 ppb	46.658 ppb	366.219 ppb	1,289.432 ppb	48.255 ppb	74.183 ppb	32.013 ppb	67.845 ppb	86.348 %
Concentration RSD	1.5 %	1.1 %	1.3 %	1.9 %	2.9 %	1.7 %	2.2 %	1.3 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	16.028 ppb	13.018 ppb	144.753 ppb	102.836 ppb	79.661 %	5.262 ppb	5.913 ppb	81.989 %	44.884 ppb
Concentration per Run 1	16.496 ppb	13.209 ppb	147.341 ppb	103.177 ppb	78.068 %	5.079 ppb	5.933 ppb	81.377 %	44.381 ppb
Concentration per Run 2	16.075 ppb	12.668 ppb	144.927 ppb	102.844 ppb	80.019 %	5.334 ppb	5.839 ppb	83.248 %	44.473 ppb
Concentration per Run 3	15.514 ppb	13.178 ppb	141.991 ppb	102.486 ppb	80.895 %	5.373 ppb	5.968 ppb	81.343 %	45.796 ppb
Concentration RSD	3.1 %	2.3 %	1.9 %	0.3 %	1.8 %	3.0 %	1.1 %	1.3 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	237.997 ppb	82.496 %	81.641 %	12.663 ppb	56.178 ppb	80.215 %
Concentration per Run 1	237.652 ppb	81.533 %	80.202 %	12.400 ppb	56.031 ppb	79.793 %
Concentration per Run 2	234.550 ppb	82.394 %	80.889 %	12.865 ppb	56.179 ppb	79.790 %
Concentration per Run 3	241.791 ppb	83.560 %	83.831 %	12.724 ppb	56.324 ppb	81.062 %
Concentration RSD	1.5 %	1.2 %	2.4 %	1.9 %	0.3 %	0.9 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 80 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: WG1810773-9D10 6020TL Rack: 1
 Analysis started at: 8/13/2023 7:26:07 PM Vial: 46

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.218 %	82.294 %	39.069 ppb	7,556.417 ppb	4,450.884 ppb	414.140 ppb	4,023.791 ppb	10,558.709 ppb	84.837 %
Concentration per Run 1	80.240 %	79.133 %	39.570 ppb	7,687.017 ppb	4,546.918 ppb	412.345 ppb	4,036.424 ppb	10,507.180 ppb	84.747 %
Concentration per Run 2	81.856 %	81.843 %	38.952 ppb	7,611.726 ppb	4,419.496 ppb	417.827 ppb	4,039.260 ppb	10,519.049 ppb	84.749 %
Concentration per Run 3	81.558 %	85.908 %	38.684 ppb	7,370.508 ppb	4,386.236 ppb	412.247 ppb	3,995.690 ppb	10,649.899 ppb	85.015 %
Concentration RSD	1.1 %	4.1 %	1.2 %	2.2 %	1.9 %	0.8 %	0.6 %	0.8 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	40.456 ppb	65.147 ppb	359.006 ppb	5,307.484 ppb	39.083 ppb	64.869 ppb	43.922 ppb	56.196 ppb	84.040 %
Concentration per Run 1	39.620 ppb	64.218 ppb	355.255 ppb	5,303.750 ppb	38.614 ppb	63.623 ppb	44.143 ppb	54.615 ppb	83.901 %
Concentration per Run 2	40.873 ppb	65.448 ppb	360.497 ppb	5,358.003 ppb	39.063 ppb	66.868 ppb	43.415 ppb	56.518 ppb	84.245 %
Concentration per Run 3	40.875 ppb	65.774 ppb	361.267 ppb	5,260.700 ppb	39.572 ppb	64.116 ppb	44.208 ppb	57.454 ppb	83.975 %
Concentration RSD	1.8 %	1.3 %	0.9 %	0.9 %	1.2 %	2.7 %	1.0 %	2.6 %	0.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	42.304 ppb	41.612 ppb	80.038 ppb	45.410 ppb	80.116 %	1.452 ppb	40.513 ppb	82.016 %	40.301 ppb
Concentration per Run 1	40.962 ppb	40.359 ppb	79.610 ppb	43.629 ppb	77.900 %	1.457 ppb	40.712 ppb	80.078 %	40.197 ppb
Concentration per Run 2	42.374 ppb	40.708 ppb	80.634 ppb	46.168 ppb	80.228 %	1.501 ppb	40.616 ppb	82.719 %	40.277 ppb
Concentration per Run 3	43.576 ppb	43.769 ppb	79.869 ppb	46.433 ppb	82.221 %	1.399 ppb	40.210 ppb	83.250 %	40.428 ppb
Concentration RSD	3.1 %	4.5 %	0.7 %	3.4 %	2.7 %	3.5 %	0.7 %	2.1 %	0.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	74.373 ppb	82.455 %	81.992 %	40.913 ppb	41.359 ppb	80.056 %
Concentration per Run 1	74.343 ppb	79.302 %	79.381 %	39.999 ppb	40.821 ppb	79.540 %
Concentration per Run 2	72.949 ppb	82.859 %	82.714 %	41.148 ppb	41.476 ppb	80.873 %
Concentration per Run 3	75.827 ppb	85.202 %	83.882 %	41.593 ppb	41.782 ppb	79.754 %
Concentration RSD	1.9 %	3.6 %	2.8 %	2.0 %	1.2 %	0.9 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 81 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: WG1810773-10D5 6020TL Rack: 1
 Analysis started at: 8/13/2023 7:30:37 PM Vial: 47

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.210 %	78.591 %	0.086 ppb	8,285.600 ppb	1,367.632 ppb	798.540 ppb	569.737 ppb	14,215.372 ppb	83.564 %
Concentration per Run 1	80.994 %	81.843 %	0.100 ppb	8,071.945 ppb	1,341.777 ppb	773.194 ppb	543.635 ppb	13,773.715 ppb	81.831 %
Concentration per Run 2	82.048 %	74.255 %	0.086 ppb	8,692.358 ppb	1,406.741 ppb	817.614 ppb	596.650 ppb	14,599.677 ppb	83.932 %
Concentration per Run 3	83.589 %	79.675 %	0.073 ppb	8,092.498 ppb	1,354.378 ppb	804.814 ppb	568.925 ppb	14,272.723 ppb	84.929 %
Concentration RSD	1.6 %	5.0 %	15.4 %	4.3 %	2.5 %	2.9 %	4.7 %	2.9 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.942 ppb	55.887 ppb	661.217 ppb	2,801.891 ppb	1.769 ppb	54.415 ppb	11.685 ppb	37.451 ppb	83.596 %
Concentration per Run 1	3.653 ppb	55.681 ppb	660.101 ppb	2,788.314 ppb	1.724 ppb	53.980 ppb	12.066 ppb	38.276 ppb	80.804 %
Concentration per Run 2	4.116 ppb	55.016 ppb	663.540 ppb	2,812.648 ppb	1.809 ppb	53.717 ppb	11.408 ppb	36.988 ppb	86.448 %
Concentration per Run 3	4.057 ppb	56.963 ppb	660.011 ppb	2,804.710 ppb	1.774 ppb	55.548 ppb	11.582 ppb	37.090 ppb	83.536 %
Concentration RSD	6.4 %	1.8 %	0.3 %	0.4 %	2.4 %	1.8 %	2.9 %	1.9 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	7.368 ppb	2.440 ppb	79.090 ppb	2.632 ppb	80.305 %	0.044 ppb	0.692 ppb	84.534 %	0.087 ppb
Concentration per Run 1	7.197 ppb	2.309 ppb	80.192 ppb	2.375 ppb	78.265 %	0.030 ppb	0.659 ppb	82.772 %	0.088 ppb
Concentration per Run 2	7.459 ppb	2.508 ppb	77.439 ppb	2.584 ppb	81.429 %	0.062 ppb	0.708 ppb	86.299 %	0.085 ppb
Concentration per Run 3	7.449 ppb	2.502 ppb	79.639 ppb	2.936 ppb	81.219 %	0.040 ppb	0.710 ppb	84.532 %	0.087 ppb
Concentration RSD	2.0 %	4.6 %	1.8 %	10.8 %	2.2 %	37.4 %	4.2 %	2.1 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	69.475 ppb	83.441 %	82.097 %	0.271 ppb	2.252 ppb	81.998 %
Concentration per Run 1	69.500 ppb	81.818 %	80.764 %	0.254 ppb	2.224 ppb	80.670 %
Concentration per Run 2	69.597 ppb	83.559 %	82.381 %	0.315 ppb	2.263 ppb	82.209 %
Concentration per Run 3	69.327 ppb	84.945 %	83.146 %	0.243 ppb	2.269 ppb	83.115 %
Concentration RSD	0.2 %	1.9 %	1.5 %	14.2 %	1.1 %	1.5 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 82 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/13/2023 7:35:08 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.264 %	78.410 %	55.786 ppb	5,479.073 ppb	5,644.380 ppb	60.835 ppb	5,550.983 ppb	5,437.141 ppb	84.196 %
Concentration per Run 1	82.710 %	77.236 %	54.851 ppb	5,488.338 ppb	5,612.963 ppb	61.121 ppb	5,424.545 ppb	5,366.802 ppb	84.447 %
Concentration per Run 2	81.630 %	78.320 %	56.331 ppb	5,466.938 ppb	5,767.071 ppb	62.606 ppb	5,592.840 ppb	5,540.238 ppb	84.594 %
Concentration per Run 3	82.453 %	79.675 %	56.177 ppb	5,481.943 ppb	5,553.106 ppb	58.778 ppb	5,635.564 ppb	5,404.384 ppb	83.548 %
Recovery Percentage 1			92.977 %	91.318 %	94.073 %	101.391 %	92.516 %	90.619 %	
Concentration RSD	0.7 %	1.6 %	1.5 %	0.2 %	2.0 %	3.2 %	2.0 %	1.7 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	55.264 ppb	56.029 ppb	56.804 ppb	5,640.172 ppb	56.628 ppb	55.763 ppb	55.937 ppb	59.014 ppb	83.785 %
Concentration per Run 1	52.980 ppb	54.480 ppb	56.205 ppb	5,535.365 ppb	55.083 ppb	53.618 ppb	54.977 ppb	57.972 ppb	83.793 %
Concentration per Run 2	56.230 ppb	56.626 ppb	56.464 ppb	5,662.252 ppb	57.112 ppb	56.572 ppb	56.038 ppb	59.112 ppb	83.535 %
Concentration per Run 3	56.581 ppb	56.980 ppb	57.743 ppb	5,722.899 ppb	57.689 ppb	57.099 ppb	56.797 ppb	59.957 ppb	84.027 %
Recovery Percentage 1	92.106 %	93.381 %	94.673 %	94.003 %	94.380 %	92.938 %	93.229 %	98.356 %	
Concentration RSD	3.6 %	2.4 %	1.4 %	1.7 %	2.4 %	3.4 %	1.6 %	1.7 %	0.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	57.985 ppb	59.065 ppb	52.780 ppb	60.671 ppb	81.774 %	56.900 ppb	57.632 ppb	82.913 %	57.350 ppb
Concentration per Run 1	57.582 ppb	57.499 ppb	52.206 ppb	59.346 ppb	79.870 %	56.541 ppb	56.748 ppb	81.069 %	57.231 ppb
Concentration per Run 2	58.285 ppb	58.796 ppb	52.960 ppb	60.363 ppb	82.390 %	57.269 ppb	57.940 ppb	83.438 %	57.473 ppb
Concentration per Run 3	58.088 ppb	60.899 ppb	53.173 ppb	62.305 ppb	83.063 %	56.890 ppb	58.209 ppb	84.231 %	57.347 ppb
Recovery Percentage 1	96.641 %	98.441 %	87.966 %	101.119 %		94.833 %	96.054 %		95.583 %
Concentration RSD	0.6 %	2.9 %	1.0 %	2.5 %	2.1 %	0.6 %	1.3 %	2.0 %	0.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	55.446 ppb	83.789 %	82.769 %	57.713 ppb	55.819 ppb	82.154 %
Concentration per Run 1	55.710 ppb	81.416 %	81.481 %	56.867 ppb	55.540 ppb	80.808 %
Concentration per Run 2	55.307 ppb	83.626 %	83.389 %	57.181 ppb	55.700 ppb	82.502 %
Concentration per Run 3	55.322 ppb	86.325 %	83.436 %	59.090 ppb	56.217 ppb	83.153 %
Recovery Percentage 1	92.410 %			96.188 %	93.032 %	
Concentration RSD	0.4 %	2.9 %	1.3 %	2.1 %	0.6 %	1.5 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 83 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/13/2023 7:39:40 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.335 %	82.114 %	0.006 ppb	-4.246 ppb	-0.205 ppb	-0.746 ppb	-9.664 ppb	-8.905 ppb	83.655 %
Concentration per Run 1	84.994 %	85.366 %	0.004 ppb	-5.365 ppb	-1.186 ppb	-0.509 ppb	-8.133 ppb	-10.234 ppb	83.724 %
Concentration per Run 2	85.870 %	78.862 %	0.003 ppb	-3.499 ppb	0.519 ppb	-0.933 ppb	-10.838 ppb	-9.094 ppb	83.674 %
Concentration per Run 3	85.140 %	82.114 %	0.011 ppb	-3.874 ppb	0.054 ppb	-0.796 ppb	-10.023 ppb	-7.386 ppb	83.567 %
Recovery Percentage 1			1.166 %	-4.246 %	-0.292 %	-7.458 %	-9.664 %	-8.905 %	
Concentration RSD	0.5 %	4.0 %	74.2 %	23.2 %	430.9 %	29.0 %	14.4 %	16.1 %	0.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.008 ppb	-0.028 ppb	-0.193 ppb	2.619 ppb	0.005 ppb	-0.098 ppb	-0.050 ppb	-0.751 ppb	85.864 %
Concentration per Run 1	0.064 ppb	-0.035 ppb	-0.201 ppb	3.608 ppb	0.007 ppb	-0.104 ppb	-0.056 ppb	-0.780 ppb	83.354 %
Concentration per Run 2	-0.024 ppb	-0.024 ppb	-0.174 ppb	3.029 ppb	0.002 ppb	-0.064 ppb	-0.056 ppb	-0.703 ppb	86.108 %
Concentration per Run 3	-0.016 ppb	-0.025 ppb	-0.205 ppb	1.221 ppb	0.007 ppb	-0.127 ppb	-0.037 ppb	-0.768 ppb	88.129 %
Recovery Percentage 1	0.158 %	-2.789 %	-19.324 %	5.239 %	1.058 %	-4.915 %	-4.953 %	-15.011 %	
Concentration RSD	618.1 %	21.1 %	8.9 %	47.5 %	58.5 %	32.2 %	22.0 %	5.6 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.210 ppb	1.646 ppb	-0.005 ppb	0.970 ppb	85.939 %	0.001 ppb	-0.009 ppb	85.739 %	-0.032 ppb
Concentration per Run 1	0.160 ppb	1.505 ppb	-0.011 ppb	0.850 ppb	85.073 %	0.002 ppb	-0.004 ppb	83.609 %	-0.030 ppb
Concentration per Run 2	0.252 ppb	1.812 ppb	-0.003 ppb	1.108 ppb	86.283 %	0.003 ppb	-0.012 ppb	86.401 %	-0.033 ppb
Concentration per Run 3	0.217 ppb	1.620 ppb	-0.001 ppb	0.951 ppb	86.461 %	-0.001 ppb	-0.012 ppb	87.206 %	-0.032 ppb
Recovery Percentage 1	41.937 %	32.919 %	-0.049 %	48.477 %		0.316 %	-4.570 %		-0.788 %
Concentration RSD	22.2 %	9.4 %	107.9 %	13.4 %	0.9 %	177.9 %	44.9 %	2.2 %	4.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.018 ppb	84.926 %	84.413 %	0.364 ppb	0.001 ppb	85.611 %
Concentration per Run 1	0.014 ppb	83.394 %	82.329 %	0.362 ppb	0.002 ppb	84.610 %
Concentration per Run 2	-0.002 ppb	85.801 %	84.863 %	0.415 ppb	0.001 ppb	85.848 %
Concentration per Run 3	0.043 ppb	85.583 %	86.046 %	0.314 ppb	0.001 ppb	86.375 %
Recovery Percentage 1	3.647 %			36.398 %	0.103 %	
Concentration RSD	124.7 %	1.6 %	2.3 %	13.9 %	66.7 %	1.1 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 84 User name: ALPHALAB\2-icpmsq2 Comment: <Comment>
 Analysis label: I2341121-18D10 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 7:44:13 PM Vial: 27

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.831 %	88.889 %	1.204 ppb	9,458.293 ppb	9,012.258 ppb	18,165.279 ppb	3,918.974 ppb	1,888.715 ppb	103.182 %
Concentration per Run 1	90.991 %	91.057 %	1.205 ppb	9,210.355 ppb	8,840.081 ppb	17,690.306 ppb	3,767.466 ppb	1,927.063 ppb	102.727 %
Concentration per Run 2	92.198 %	92.141 %	1.235 ppb	9,266.871 ppb	8,893.339 ppb	17,782.583 ppb	3,901.354 ppb	1,802.818 ppb	103.689 %
Concentration per Run 3	92.304 %	83.469 %	1.172 ppb	9,897.654 ppb	9,303.353 ppb	19,022.947 ppb	4,088.101 ppb	1,936.264 ppb	103.131 %
Concentration RSD	0.8 %	5.3 %	2.6 %	4.0 %	2.8 %	4.1 %	4.1 %	3.9 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.649 ppb	42.935 ppb	458.875 ppb	53,213.711 ppb	12.911 ppb	32.738 ppb	22.783 ppb	105.627 ppb	88.210 %
Concentration per Run 1	46.958 ppb	41.759 ppb	437.330 ppb	51,721.342 ppb	12.926 ppb	32.901 ppb	22.222 ppb	105.650 ppb	86.159 %
Concentration per Run 2	49.321 ppb	42.401 ppb	461.871 ppb	52,896.859 ppb	13.145 ppb	32.744 ppb	22.618 ppb	105.448 ppb	88.275 %
Concentration per Run 3	49.669 ppb	44.646 ppb	477.424 ppb	55,022.933 ppb	12.661 ppb	32.570 ppb	23.509 ppb	105.784 ppb	90.197 %
Concentration RSD	3.0 %	3.5 %	4.4 %	3.1 %	1.9 %	0.5 %	2.9 %	0.2 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	22.513 ppb	10.631 ppb	34.351 ppb	5.523 ppb	81.535 %	0.090 ppb	0.196 ppb	85.967 %	0.063 ppb
Concentration per Run 1	22.640 ppb	11.140 ppb	34.180 ppb	4.955 ppb	79.837 %	0.085 ppb	0.229 ppb	83.301 %	0.034 ppb
Concentration per Run 2	22.334 ppb	10.423 ppb	34.828 ppb	5.461 ppb	81.077 %	0.094 ppb	0.193 ppb	86.877 %	0.088 ppb
Concentration per Run 3	22.566 ppb	10.331 ppb	34.044 ppb	6.153 ppb	83.692 %	0.090 ppb	0.167 ppb	87.722 %	0.066 ppb
Concentration RSD	0.7 %	4.2 %	1.2 %	10.9 %	2.4 %	5.4 %	15.9 %	2.7 %	44.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	32.298 ppb	84.005 %	81.782 %	0.262 ppb	19.911 ppb	81.845 %
Concentration per Run 1	31.544 ppb	81.445 %	79.963 %	0.237 ppb	19.897 ppb	80.149 %
Concentration per Run 2	33.757 ppb	84.475 %	82.258 %	0.281 ppb	19.945 ppb	82.397 %
Concentration per Run 3	31.595 ppb	86.095 %	83.124 %	0.269 ppb	19.891 ppb	82.991 %
Concentration RSD	3.9 %	2.8 %	2.0 %	8.5 %	0.2 %	1.8 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 85 User name ALPHALAB\2-icpmsq2 Comment <Comment>
 Analysis label: I2341121-19D10 A2-6020T Rack 2
 Analysis started at: 8/13/2023 7:48:43 PM Vial 28

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.176 %	88.437 %	1.218 ppb	10,023.721 ppb	9,856.932 ppb	19,835.383 ppb	4,234.728 ppb	2,170.367 ppb	102.926 %
Concentration per Run 1	92.336 %	92.954 %	1.148 ppb	9,447.826 ppb	9,146.301 ppb	18,774.417 ppb	4,018.486 ppb	2,125.570 ppb	101.297 %
Concentration per Run 2	91.737 %	80.759 %	1.221 ppb	10,717.733 ppb	10,559.731 ppb	20,947.609 ppb	4,300.635 ppb	2,196.899 ppb	103.476 %
Concentration per Run 3	92.455 %	91.599 %	1.286 ppb	9,905.603 ppb	9,864.764 ppb	19,784.124 ppb	4,385.063 ppb	2,188.632 ppb	104.005 %
Concentration RSD	0.4 %	7.6 %	5.7 %	6.4 %	7.2 %	5.5 %	4.5 %	1.8 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	50.549 ppb	45.683 ppb	671.555 ppb	52,888.026 ppb	13.027 ppb	35.804 ppb	18.248 ppb	102.329 ppb	87.421 %
Concentration per Run 1	49.806 ppb	44.583 ppb	645.489 ppb	51,662.414 ppb	12.733 ppb	35.548 ppb	18.400 ppb	100.427 ppb	87.266 %
Concentration per Run 2	51.058 ppb	45.836 ppb	676.716 ppb	52,760.250 ppb	12.780 ppb	35.852 ppb	18.160 ppb	101.973 ppb	89.671 %
Concentration per Run 3	50.782 ppb	46.630 ppb	692.459 ppb	54,241.413 ppb	13.568 ppb	36.011 ppb	18.184 ppb	104.586 ppb	85.327 %
Concentration RSD	1.3 %	2.3 %	3.6 %	2.4 %	3.6 %	0.7 %	0.7 %	2.1 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	19.522 ppb	11.110 ppb	36.078 ppb	2.387 ppb	82.600 %	0.065 ppb	0.106 ppb	85.879 %	0.030 ppb
Concentration per Run 1	19.001 ppb	11.522 ppb	36.017 ppb	2.400 ppb	80.740 %	0.067 ppb	0.110 ppb	82.009 %	0.015 ppb
Concentration per Run 2	19.405 ppb	11.110 ppb	35.494 ppb	2.404 ppb	83.630 %	0.059 ppb	0.106 ppb	87.101 %	0.039 ppb
Concentration per Run 3	20.159 ppb	10.699 ppb	36.722 ppb	2.358 ppb	83.429 %	0.069 ppb	0.102 ppb	88.526 %	0.036 ppb
Concentration RSD	3.0 %	3.7 %	1.7 %	1.1 %	2.0 %	8.0 %	3.5 %	4.0 %	43.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	35.172 ppb	83.428 %	81.325 %	0.228 ppb	18.284 ppb	83.170 %
Concentration per Run 1	34.545 ppb	80.843 %	79.260 %	0.208 ppb	18.575 ppb	80.846 %
Concentration per Run 2	36.043 ppb	84.317 %	82.057 %	0.234 ppb	18.224 ppb	83.063 %
Concentration per Run 3	34.926 ppb	85.125 %	82.659 %	0.242 ppb	18.052 ppb	85.602 %
Concentration RSD	2.2 %	2.7 %	2.2 %	7.7 %	1.5 %	2.9 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 86 User name: ALPHALAB\la2-icpmsq2 Comment: <Comment>
 Analysis label: I2341121-20D10 A2-6020T Rack: 2
 Analysis started at: 8/13/2023 7:53:12 PM Vial: 29

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.598 %	95.845 %	1.189 ppb	8,594.374 ppb	8,629.443 ppb	17,392.949 ppb	3,794.406 ppb	2,186.236 ppb	100.003 %
Concentration per Run 1	89.536 %	94.580 %	1.175 ppb	8,498.747 ppb	8,558.929 ppb	17,009.517 ppb	3,805.152 ppb	2,153.735 ppb	99.778 %
Concentration per Run 2	87.657 %	98.916 %	1.225 ppb	8,334.551 ppb	8,370.629 ppb	17,077.122 ppb	3,729.657 ppb	2,158.872 ppb	100.999 %
Concentration per Run 3	88.600 %	94.038 %	1.168 ppb	8,949.823 ppb	8,958.773 ppb	18,092.210 ppb	3,848.409 ppb	2,246.101 ppb	99.231 %
Concentration RSD	1.1 %	2.8 %	2.6 %	3.7 %	3.5 %	3.5 %	1.6 %	2.4 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.600 ppb	41.463 ppb	644.320 ppb	49,244.565 ppb	12.034 ppb	31.154 ppb	15.956 ppb	95.542 ppb	86.995 %
Concentration per Run 1	48.267 ppb	41.028 ppb	643.349 ppb	49,118.958 ppb	12.174 ppb	31.139 ppb	16.579 ppb	95.421 ppb	84.331 %
Concentration per Run 2	48.364 ppb	40.606 ppb	633.570 ppb	47,816.295 ppb	11.435 ppb	31.001 ppb	15.174 ppb	94.267 ppb	88.930 %
Concentration per Run 3	49.168 ppb	42.755 ppb	656.041 ppb	50,798.440 ppb	12.494 ppb	31.322 ppb	16.116 ppb	96.937 ppb	87.725 %
Concentration RSD	1.0 %	2.7 %	1.7 %	3.0 %	4.5 %	0.5 %	4.5 %	1.4 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	17.985 ppb	10.549 ppb	35.786 ppb	2.325 ppb	80.350 %	0.061 ppb	0.112 ppb	84.849 %	0.010 ppb
Concentration per Run 1	17.667 ppb	10.503 ppb	35.982 ppb	2.155 ppb	78.567 %	0.064 ppb	0.126 ppb	83.328 %	0.003 ppb
Concentration per Run 2	17.358 ppb	10.749 ppb	35.317 ppb	2.265 ppb	81.228 %	0.065 ppb	0.086 ppb	83.418 %	0.029 ppb
Concentration per Run 3	18.929 ppb	10.397 ppb	36.058 ppb	2.554 ppb	81.256 %	0.053 ppb	0.124 ppb	87.801 %	-0.001 ppb
Concentration RSD	4.6 %	1.7 %	1.1 %	8.9 %	1.9 %	11.3 %	20.0 %	3.0 %	160.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	32.806 ppb	82.151 %	79.814 %	0.200 ppb	17.383 ppb	81.467 %
Concentration per Run 1	32.061 ppb	79.554 %	78.244 %	0.184 ppb	17.493 ppb	80.225 %
Concentration per Run 2	33.066 ppb	82.146 %	79.564 %	0.215 ppb	17.361 ppb	81.144 %
Concentration per Run 3	33.293 ppb	84.755 %	81.633 %	0.201 ppb	17.294 ppb	83.032 %
Concentration RSD	2.0 %	3.2 %	2.1 %	7.9 %	0.6 %	1.8 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 87 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCV Rack 0
 Analysis started at: 8/13/2023 7:57:42 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.624 %	82.294 %	56.361 ppb	5,118.542 ppb	5,226.313 ppb	56.751 ppb	5,027.692 ppb	5,473.714 ppb	80.474 %
Concentration per Run 1	78.895 %	87.805 %	55.612 ppb	4,786.201 ppb	4,808.309 ppb	50.068 ppb	4,709.729 ppb	5,391.689 ppb	78.992 %
Concentration per Run 2	79.378 %	79.675 %	56.465 ppb	5,262.231 ppb	5,391.799 ppb	61.806 ppb	5,174.200 ppb	5,676.820 ppb	81.624 %
Concentration per Run 3	77.600 %	79.404 %	57.006 ppb	5,307.194 ppb	5,478.830 ppb	58.378 ppb	5,199.147 ppb	5,352.634 ppb	80.806 %
Recovery Percentage 1			93.935 %	85.309 %	87.105 %	94.585 %	83.795 %	91.229 %	
Concentration RSD	1.2 %	5.8 %	1.2 %	5.6 %	7.0 %	10.6 %	5.5 %	3.2 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	54.630 ppb	54.161 ppb	55.476 ppb	5,484.612 ppb	54.770 ppb	55.406 ppb	56.004 ppb	57.414 ppb	82.804 %
Concentration per Run 1	52.302 ppb	51.693 ppb	54.321 ppb	5,297.082 ppb	53.004 ppb	54.098 ppb	54.378 ppb	55.723 ppb	83.171 %
Concentration per Run 2	56.297 ppb	56.289 ppb	56.097 ppb	5,711.387 ppb	56.765 ppb	57.259 ppb	57.850 ppb	59.471 ppb	80.752 %
Concentration per Run 3	55.289 ppb	54.500 ppb	56.011 ppb	5,445.367 ppb	54.541 ppb	54.862 ppb	55.784 ppb	57.049 ppb	84.490 %
Recovery Percentage 1	91.049 %	90.268 %	92.460 %	91.410 %	91.283 %	92.344 %	93.340 %	95.690 %	
Concentration RSD	3.8 %	4.3 %	1.8 %	3.8 %	3.5 %	3.0 %	3.1 %	3.3 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	56.686 ppb	59.981 ppb	51.836 ppb	60.085 ppb	80.002 %	56.683 ppb	57.769 ppb	80.606 %	57.512 ppb
Concentration per Run 1	56.016 ppb	57.710 ppb	50.803 ppb	58.708 ppb	79.878 %	56.395 ppb	56.981 ppb	79.509 %	57.407 ppb
Concentration per Run 2	58.988 ppb	60.523 ppb	53.164 ppb	61.190 ppb	79.269 %	56.843 ppb	58.033 ppb	80.459 %	57.819 ppb
Concentration per Run 3	55.053 ppb	61.710 ppb	51.542 ppb	60.358 ppb	80.859 %	56.811 ppb	58.293 ppb	81.850 %	57.309 ppb
Recovery Percentage 1	94.476 %	99.968 %	86.394 %	100.142 %		94.472 %	96.282 %		95.853 %
Concentration RSD	3.6 %	3.4 %	2.3 %	2.1 %	1.0 %	0.4 %	1.2 %	1.5 %	0.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	55.468 ppb	81.898 %	81.221 %	57.085 ppb	55.763 ppb	79.694 %
Concentration per Run 1	54.823 ppb	81.053 %	80.520 %	56.468 ppb	55.847 ppb	78.932 %
Concentration per Run 2	55.951 ppb	82.533 %	82.623 %	56.854 ppb	55.541 ppb	79.660 %
Concentration per Run 3	55.630 ppb	82.107 %	80.522 %	57.933 ppb	55.901 ppb	80.492 %
Recovery Percentage 1	92.447 %			95.142 %	92.938 %	
Concentration RSD	1.0 %	0.9 %	1.5 %	1.3 %	0.3 %	1.0 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 88 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: CCB Rack 0
 Analysis started at: 8/13/2023 8:02:14 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.572 %	84.643 %	0.006 ppb	-4.509 ppb	-1.060 ppb	-0.477 ppb	-11.700 ppb	-10.193 ppb	81.218 %
Concentration per Run 1	81.913 %	82.114 %	-0.002 ppb	-4.621 ppb	-0.733 ppb	-0.401 ppb	-11.412 ppb	-11.878 ppb	82.315 %
Concentration per Run 2	81.733 %	86.721 %	0.008 ppb	-4.307 ppb	-1.003 ppb	-0.587 ppb	-13.612 ppb	-7.059 ppb	80.988 %
Concentration per Run 3	81.069 %	85.095 %	0.013 ppb	-4.597 ppb	-1.444 ppb	-0.442 ppb	-10.075 ppb	-11.642 ppb	80.352 %
Recovery Percentage 1			1.270 %	-4.509 %	-1.514 %	-4.765 %	-11.700 %	-10.193 %	
Concentration RSD	0.5 %	2.8 %	125.2 %	3.9 %	33.9 %	20.6 %	15.3 %	26.7 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.023 ppb	-0.034 ppb	-0.205 ppb	1.480 ppb	0.001 ppb	-0.099 ppb	-0.044 ppb	-0.758 ppb	82.548 %
Concentration per Run 1	-0.013 ppb	-0.044 ppb	-0.222 ppb	3.642 ppb	0.002 ppb	-0.078 ppb	-0.047 ppb	-0.787 ppb	79.035 %
Concentration per Run 2	0.038 ppb	-0.032 ppb	-0.228 ppb	0.757 ppb	0.007 ppb	-0.104 ppb	-0.035 ppb	-0.748 ppb	82.666 %
Concentration per Run 3	0.045 ppb	-0.025 ppb	-0.163 ppb	0.040 ppb	-0.007 ppb	-0.116 ppb	-0.050 ppb	-0.739 ppb	85.943 %
Recovery Percentage 1	0.461 %	-3.373 %	-20.465 %	2.959 %	0.217 %	-4.964 %	-4.397 %	-15.163 %	
Concentration RSD	137.0 %	29.3 %	17.5 %	128.9 %	651.3 %	19.4 %	17.8 %	3.3 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.222 ppb	1.522 ppb	-0.004 ppb	0.863 ppb	83.492 %	0.002 ppb	0.000 ppb	83.544 %	-0.041 ppb
Concentration per Run 1	0.108 ppb	1.292 ppb	-0.009 ppb	0.728 ppb	82.681 %	0.006 ppb	0.001 ppb	81.524 %	-0.053 ppb
Concentration per Run 2	0.270 ppb	1.851 ppb	0.003 ppb	0.942 ppb	82.450 %	-0.002 ppb	0.003 ppb	84.698 %	-0.034 ppb
Concentration per Run 3	0.287 ppb	1.424 ppb	-0.007 ppb	0.918 ppb	85.345 %	0.002 ppb	-0.004 ppb	84.409 %	-0.035 ppb
Recovery Percentage 1	44.380 %	30.449 %	-0.042 %	43.138 %		0.515 %	-0.191 %		-1.023 %
Concentration RSD	44.7 %	19.2 %	145.4 %	13.6 %	1.9 %	185.5 %	964.3 %	2.1 %	26.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.049 ppb	82.941 %	81.846 %	0.327 ppb	0.002 ppb	83.608 %
Concentration per Run 1	0.058 ppb	81.221 %	81.137 %	0.315 ppb	0.003 ppb	82.901 %
Concentration per Run 2	0.011 ppb	84.787 %	81.963 %	0.371 ppb	0.002 ppb	83.904 %
Concentration per Run 3	0.079 ppb	82.814 %	82.440 %	0.296 ppb	-0.001 ppb	84.020 %
Recovery Percentage 1	9.800 %			32.746 %	0.156 %	
Concentration RSD	71.4 %	2.2 %	0.8 %	11.9 %	127.7 %	0.7 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 89 User name ALPHALAB\la2-icpmsq2 Comment CCV/MCCV
 Analysis label: CCV Rack 0
 Analysis started at: 8/13/2023 8:06:47 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.068 %	83.469 %	55.387 ppb	4,967.713 ppb	5,598.352 ppb	56.976 ppb	5,508.457 ppb	5,390.178 ppb	82.014 %
Concentration per Run 1	79.375 %	79.675 %	55.413 ppb	5,169.137 ppb	5,554.004 ppb	57.377 ppb	5,187.553 ppb	5,061.089 ppb	81.546 %
Concentration per Run 2	80.140 %	88.889 %	55.347 ppb	4,619.385 ppb	5,593.363 ppb	55.090 ppb	5,686.016 ppb	5,526.010 ppb	82.188 %
Concentration per Run 3	80.690 %	81.843 %	55.400 ppb	5,114.617 ppb	5,647.689 ppb	58.460 ppb	5,651.803 ppb	5,583.436 ppb	82.307 %
Recovery Percentage 1			92.311 %	82.795 %	93.306 %	94.960 %	91.808 %	89.836 %	
Concentration RSD	0.8 %	5.8 %	0.1 %	6.1 %	0.8 %	3.0 %	5.1 %	5.3 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	54.895 ppb	54.064 ppb	54.033 ppb	5,459.371 ppb	55.510 ppb	54.483 ppb	56.252 ppb	57.323 ppb	81.699 %
Concentration per Run 1	53.911 ppb	53.608 ppb	53.149 ppb	5,428.344 ppb	55.320 ppb	53.335 ppb	54.788 ppb	55.730 ppb	82.656 %
Concentration per Run 2	55.022 ppb	53.011 ppb	54.937 ppb	5,340.989 ppb	55.761 ppb	52.768 ppb	57.628 ppb	58.339 ppb	81.064 %
Concentration per Run 3	55.752 ppb	55.573 ppb	54.012 ppb	5,608.779 ppb	55.449 ppb	57.345 ppb	56.340 ppb	57.899 ppb	81.376 %
Recovery Percentage 1	91.491 %	90.107 %	90.054 %	90.990 %	92.516 %	90.805 %	93.753 %	95.538 %	
Concentration RSD	1.7 %	2.5 %	1.7 %	2.5 %	0.4 %	4.6 %	2.5 %	2.4 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	57.399 ppb	61.076 ppb	51.773 ppb	60.536 ppb	79.498 %	56.810 ppb	57.607 ppb	79.884 %	57.512 ppb
Concentration per Run 1	55.019 ppb	57.345 ppb	51.090 ppb	59.309 ppb	77.464 %	57.270 ppb	57.826 ppb	77.766 %	57.685 ppb
Concentration per Run 2	58.880 ppb	62.721 ppb	52.181 ppb	60.234 ppb	79.237 %	56.477 ppb	57.244 ppb	81.104 %	57.204 ppb
Concentration per Run 3	58.298 ppb	63.160 ppb	52.049 ppb	62.064 ppb	81.793 %	56.684 ppb	57.750 ppb	80.782 %	57.647 ppb
Recovery Percentage 1	95.665 %	101.793 %	86.289 %	100.893 %		94.683 %	96.011 %		95.853 %
Concentration RSD	3.6 %	5.3 %	1.1 %	2.3 %	2.7 %	0.7 %	0.5 %	2.3 %	0.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	56.084 ppb	81.779 %	80.787 %	56.689 ppb	55.689 ppb	79.396 %
Concentration per Run 1	56.062 ppb	80.268 %	80.222 %	56.137 ppb	55.837 ppb	78.078 %
Concentration per Run 2	55.065 ppb	81.458 %	79.840 %	56.627 ppb	55.975 ppb	79.218 %
Concentration per Run 3	57.126 ppb	83.611 %	82.297 %	57.302 ppb	55.254 ppb	80.891 %
Recovery Percentage 1	93.474 %			94.481 %	92.814 %	
Concentration RSD	1.8 %	2.1 %	1.6 %	1.0 %	0.7 %	1.8 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 90 User name ALPHALAB\la2-icpmsq2 Comment CCB
 Analysis label: CCB Rack 0
 Analysis started at: 8/13/2023 8:11:20 PM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.800 %	81.662 %	0.009 ppb	-4.224 ppb	-1.177 ppb	-0.725 ppb	-10.859 ppb	-8.311 ppb	83.372 %
Concentration per Run 1	81.562 %	81.572 %	0.013 ppb	-5.571 ppb	-0.995 ppb	-0.708 ppb	-11.515 ppb	-4.978 ppb	83.003 %
Concentration per Run 2	82.081 %	90.515 %	0.012 ppb	-4.420 ppb	-1.632 ppb	-0.471 ppb	-7.848 ppb	-4.263 ppb	82.986 %
Concentration per Run 3	81.758 %	72.900 %	0.002 ppb	-2.681 ppb	-0.905 ppb	-0.996 ppb	-13.213 ppb	-15.692 ppb	84.129 %
Recovery Percentage 1			1.794 %	-4.224 %	-1.682 %	-7.252 %	-10.859 %	-8.311 %	
Concentration RSD	0.3 %	10.8 %	64.7 %	34.5 %	33.6 %	36.3 %	25.3 %	77.0 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.009 ppb	-0.029 ppb	-0.214 ppb	3.132 ppb	0.008 ppb	-0.064 ppb	-0.042 ppb	-0.779 ppb	84.130 %
Concentration per Run 1	-0.014 ppb	-0.028 ppb	-0.268 ppb	3.105 ppb	0.002 ppb	-0.112 ppb	-0.034 ppb	-0.766 ppb	81.775 %
Concentration per Run 2	-0.008 ppb	-0.030 ppb	-0.205 ppb	3.063 ppb	0.018 ppb	-0.016 ppb	-0.063 ppb	-0.789 ppb	84.539 %
Concentration per Run 3	-0.005 ppb	-0.028 ppb	-0.170 ppb	3.229 ppb	0.005 ppb	-0.062 ppb	-0.029 ppb	-0.781 ppb	86.077 %
Recovery Percentage 1	-0.181 %	-2.906 %	-21.415 %	6.264 %	1.637 %	-3.177 %	-4.192 %	-15.574 %	
Concentration RSD	51.4 %	3.8 %	23.1 %	2.7 %	102.5 %	76.1 %	43.5 %	1.5 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.241 ppb	1.186 ppb	-0.010 ppb	0.903 ppb	84.129 %	0.002 ppb	-0.005 ppb	83.787 %	-0.036 ppb
Concentration per Run 1	0.127 ppb	1.046 ppb	-0.021 ppb	0.780 ppb	81.711 %	0.003 ppb	0.001 ppb	82.156 %	-0.041 ppb
Concentration per Run 2	0.240 ppb	1.368 ppb	-0.005 ppb	0.991 ppb	84.251 %	0.001 ppb	-0.002 ppb	83.654 %	-0.042 ppb
Concentration per Run 3	0.356 ppb	1.144 ppb	-0.003 ppb	0.937 ppb	86.425 %	0.002 ppb	-0.014 ppb	85.552 %	-0.024 ppb
Recovery Percentage 1	48.240 %	23.715 %	-0.098 %	45.128 %		0.557 %	-2.527 %		-0.901 %
Concentration RSD	47.5 %	13.9 %	101.7 %	12.1 %	2.8 %	41.0 %	151.9 %	2.0 %	27.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.021 ppb	83.473 %	82.285 %	0.367 ppb	0.002 ppb	84.071 %
Concentration per Run 1	0.008 ppb	81.358 %	81.099 %	0.354 ppb	0.001 ppb	84.101 %
Concentration per Run 2	-0.052 ppb	83.608 %	81.981 %	0.429 ppb	0.003 ppb	84.092 %
Concentration per Run 3	-0.019 ppb	85.452 %	83.775 %	0.319 ppb	0.002 ppb	84.020 %
Recovery Percentage 1	-4.192 %			36.750 %	0.199 %	
Concentration RSD	145.3 %	2.5 %	1.7 %	15.3 %	48.8 %	0.1 %

Alpha ICPMSQ2 Data

8/14/2023 8:20:08 AM



Analysis index: 91 User name ALPHALAB\la2-icpmsq2 Comment <Comment>
 Analysis label: LLCCV Rack 4
 Analysis started at: 8/13/2023 8:15:53 PM Vial 51

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.506 %	82.746 %	0.307 ppb	90.585 ppb	68.833 ppb	11.072 ppb	86.175 ppb	184.351 ppb	84.338 %
Concentration per Run 1	83.465 %	77.778 %	0.313 ppb	91.104 ppb	72.705 ppb	11.650 ppb	82.244 ppb	181.954 ppb	84.617 %
Concentration per Run 2	83.755 %	79.675 %	0.329 ppb	94.965 ppb	68.816 ppb	10.646 ppb	90.528 ppb	206.417 ppb	84.299 %
Concentration per Run 3	83.298 %	90.786 %	0.279 ppb	85.687 ppb	64.979 ppb	10.920 ppb	85.754 ppb	164.683 ppb	84.098 %
Recovery Percentage 1			61.365 %	90.585 %	98.333 %	110.723 %	86.175 %	184.351 %	
Concentration RSD	0.3 %	8.5 %	8.3 %	5.1 %	5.6 %	4.7 %	4.8 %	11.4 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	4.944 ppb	0.711 ppb	0.972 ppb	20.655 ppb	0.478 ppb	2.071 ppb	1.186 ppb	11.300 ppb	84.946 %
Concentration per Run 1	5.147 ppb	0.692 ppb	0.850 ppb	16.620 ppb	0.458 ppb	1.966 ppb	1.228 ppb	11.382 ppb	84.838 %
Concentration per Run 2	5.168 ppb	0.746 ppb	1.267 ppb	24.285 ppb	0.535 ppb	2.188 ppb	1.196 ppb	11.642 ppb	82.297 %
Concentration per Run 3	4.518 ppb	0.695 ppb	0.799 ppb	21.059 ppb	0.439 ppb	2.059 ppb	1.133 ppb	10.876 ppb	87.704 %
Recovery Percentage 1	98.888 %	71.082 %	97.214 %	41.309 %	95.534 %	103.555 %	118.582 %	113.000 %	
Concentration RSD	7.5 %	4.3 %	26.4 %	18.6 %	10.7 %	5.4 %	4.1 %	3.4 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.569 ppb	5.110 ppb	0.551 ppb	2.276 ppb	84.224 %	0.286 ppb	0.220 ppb	84.409 %	3.712 ppb
Concentration per Run 1	0.568 ppb	4.885 ppb	0.543 ppb	1.878 ppb	83.118 %	0.272 ppb	0.237 ppb	83.581 %	3.755 ppb
Concentration per Run 2	0.544 ppb	5.079 ppb	0.560 ppb	2.419 ppb	85.106 %	0.279 ppb	0.227 ppb	85.411 %	3.653 ppb
Concentration per Run 3	0.594 ppb	5.365 ppb	0.551 ppb	2.532 ppb	84.450 %	0.306 ppb	0.197 ppb	84.234 %	3.728 ppb
Recovery Percentage 1	113.756 %	102.190 %	110.265 %	113.815 %		71.483 %	110.048 %		92.807 %
Concentration RSD	4.4 %	4.7 %	1.5 %	15.3 %	1.2 %	6.3 %	9.5 %	1.1 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.473 ppb	84.306 %	83.078 %	0.611 ppb	0.510 ppb	84.311 %
Concentration per Run 1	0.390 ppb	83.244 %	82.797 %	0.567 ppb	0.509 ppb	82.973 %
Concentration per Run 2	0.557 ppb	84.010 %	82.189 %	0.628 ppb	0.511 ppb	84.354 %
Concentration per Run 3	0.472 ppb	85.666 %	84.248 %	0.639 ppb	0.509 ppb	85.604 %
Recovery Percentage 1	94.581 %			122.273 %	101.930 %	
Concentration RSD	17.7 %	1.5 %	1.3 %	6.4 %	0.2 %	1.6 %



**Interference Check Solutions
(ICP-MS)**

Solution Component	Solution A Concentration (ug/L)	Solution AB Concentration (ug/L)
Al	20,000	20,000
Ca	60,000	60,000
Fe	50,000	50,000
Mg	20,000	20,000
Na	50,000	50,000
K	20,000	20,000
Mo	400	400
As	0.0	20
Cd	0.0	20
Cr	0.0	40
Co	0.0	40
Cu	0.0	40
Mn	0.0	40
Ni	0.0	40
Se	0.0	20
Ag	0.0	10
V	0.0	40
Zn	0.0	20

**LCS & MS Concentrations
(ICP-MS)**

Element	Liquid Concentration (mg/L)
Aluminum	2.00
Antimony	0.5
Arsenic	0.12
Barium	2.00
Beryllium	0.05
Cadmium	0.051
Calcium	10.0
Chromium	0.20
Cobalt	0.50
Copper	0.25
Iron	1.00
Lead	0.51
Magnesium	10.0
Manganese	0.50
Molybdenum	1.00
Nickel	0.50
Potassium	10.0
Selenium	0.12
Silver	0.05
Sodium	10.0
Thallium	0.12
Vanadium	0.50
Zinc	0.50

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No.: D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.

Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck




ISO/IEC GUIDE 34:2009

ISO/IEC 17025:2005





A Waters Company

Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No.: D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
		mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.

Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck




ISO/IEC 17025:2005

ISO/IEC 17025:2005


 REFERENCE MATERIALS DIVISION
 CERTIFICATE NO. 153923

 CHEMICAL TESTING LABORATORY
 CERTIFICATE NO. 153922

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No.: D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value ⁷	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

Certified Reference Material

▪ **Certificate of Analysis** ▪

Parameter	Certified Value ¹	Reference Value ⁷	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

▪ Certificate of Analysis ▪

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number ⁶	Recovery
		mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.
2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:

$$U_{\text{expanded}} = k * \text{SQRT}((U_{\text{char}})^2 + (U_{\text{homogen}})^2 + (U_{\text{LTS}})^2 + (U_{\text{STS}})^2 + (U_{\text{RSS}})^2)$$

Where:

 - U_{expanded} = Expanded uncertainty.
 - k = Coverage factor.
 - U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
 - U_{homogen} = Standard uncertainty of the homogeneity assessment.
 - U_{LTS} = Standard uncertainty associated with long-term stability.
 - U_{STS} = Standard uncertainty associated with short-term (transport) stability.
 - U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).
3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.
4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.
5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.
6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%) = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100**
 The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.
7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.
8. **Metrological Traceability.** This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.
9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck







A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION



Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

Certified Reference Material

▪ **Certificate of Analysis** ▪

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

Calculation of Method 6020 Metals

Aqueous Samples

The instrument will calculate the concentration ($\mu\text{g/L}$). This value is divided by 1000 to convert the units to mg/L . If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})$$

Where:

C_s = Concentration of sample ($\mu\text{g/L}$)

DF = Dilution Factor

Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	8/1/2023 8:22:03 AM
2	CAL LOT #M22-1194	0	1	3	1	8/1/2023 8:26:29 AM
3	Blank SMV ICPMSQ2	4	49	3	1	8/1/2023 8:30:56 AM
4	0.2/20 Cal	0	2	3	1	8/1/2023 8:35:28 AM
5	1/100 Cal	0	3	3	1	8/1/2023 8:39:56 AM
6	10/1000 Cal	0	4	3	1	8/1/2023 8:44:25 AM
7	60/6000 Cal	0	5	3	1	8/1/2023 8:48:54 AM
8	120/12000 Cal	0	6	3	1	8/1/2023 8:53:24 AM
9	Sr 200ppb	4	55	3	1	8/1/2023 8:57:54 AM
10	ICV	0	7	3	1	8/1/2023 9:02:27 AM
11	ICB	0	10	3	1	8/1/2023 9:06:57 AM
12	LLCCV	4	51	3	1	8/1/2023 9:13:05 AM
13	ICSA	4	53	3	1	8/1/2023 9:17:37 AM
14	Rinse	0	1	3	1	8/1/2023 9:22:09 AM
15	CCV	0	9	3	1	8/1/2023 9:26:37 AM
16	CCB	0	10	3	1	8/1/2023 9:31:09 AM
17	WG1809695-1D10 SPLP-6020T	1	1	3	1	8/1/2023 9:39:55 AM
18	WG1809695-2D10 SPLP-6020T	1	2	3	1	8/1/2023 9:44:23 AM
19	WG1809695-3D10 SPLP-6020T	1	4	3	1	8/1/2023 9:48:51 AM
20	WG1809695-5D10 SPLP-6020T	1	6	3	1	8/1/2023 9:53:20 AM
21	WG1809695-4D10 SPLP-6020T	1	5	3	1	8/1/2023 9:57:49 AM
22	L2343561-01D10 SPLP-6020T	1	3	3	1	8/1/2023 10:02:18 AM
23	L2343561-02D10 SPLP-6020T	1	8	3	1	8/1/2023 10:06:47 AM
24	xL2342678-01 6020TL	1	9	3	1	8/1/2023 10:11:17 AM
25	xL2342678-03 6020TL	1	10	3	1	8/1/2023 10:15:47 AM
26	WG1809695-6D50 SPLP-6020T	1	7	3	1	8/1/2023 10:20:18 AM
27	CCV	0	9	3	1	8/1/2023 10:24:47 AM
28	CCB	0	10	3	1	8/1/2023 10:29:20 AM
29	CCV	0	9	3	1	8/1/2023 11:17:43 AM
30	CCB	0	10	3	1	8/1/2023 11:22:15 AM

Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	8/1/2023 11:27:46 AM
2	CAL LOT #M22-1194	0	1	3	1	8/1/2023 11:32:12 AM
3	Blank WKP ICPMSQ2	4	49	3	1	8/1/2023 11:36:39 AM
4	0.2/20 Cal	0	2	3	1	8/1/2023 11:41:11 AM
5	1/100 Cal	0	3	3	1	8/1/2023 11:45:39 AM
6	10/1000 Cal	0	4	3	1	8/1/2023 11:50:08 AM
7	60/6000 Cal	0	5	3	1	8/1/2023 11:54:37 AM
8	120/12000 Cal	0	6	3	1	8/1/2023 11:59:06 AM
9	Sr 200ppb	4	55	3	1	8/1/2023 12:03:37 PM
10	ICV	0	7	3	1	8/1/2023 12:08:09 PM
11	ICB	0	10	3	1	8/1/2023 12:12:40 PM
12	L2342678-01 6020TL	1	9	3	1	8/1/2023 12:19:25 PM
13	L2342678-03 6020TL	1	10	3	1	8/1/2023 12:23:54 PM
14	L2337211-05 6020SL	1	11	3	1	8/1/2023 12:28:25 PM
15	L2337659-12 6020SL	1	12	3	1	8/1/2023 12:32:56 PM
16	L2337659-13 6020SL	1	13	3	1	8/1/2023 12:37:27 PM
17	L2337659-14 6020SL	1	14	3	1	8/1/2023 12:41:54 PM
18	L2341182-01 6020TL	1	15	3	1	8/1/2023 12:46:21 PM
19	L2341182-02 6020TL	1	16	3	1	8/1/2023 12:50:48 PM
20	CCV	0	9	3	1	8/1/2023 12:58:26 PM
21	CCB	0	10	3	1	8/1/2023 1:02:58 PM
22	WG1805054-1 6020TL	1	17	3	1	8/1/2023 1:08:10 PM
23	WG1805054-2D5 6020TL	1	18	3	1	8/1/2023 1:12:38 PM
24	L2340896-01D10 6020TL	1	19	3	1	8/1/2023 1:17:07 PM
25	L2341024-01 6020TL	1	20	3	1	8/1/2023 1:21:36 PM
26	I2339069-01D10 2008TL	1	21	3	1	8/1/2023 1:26:05 PM
27	L2340590-03D10 6020TL	1	22	3	1	8/1/2023 1:30:34 PM
28	L2340590-04D10 6020TL	1	23	3	1	8/1/2023 1:35:04 PM
29	L2340590-05D10 6020TL	1	24	3	1	8/1/2023 1:39:34 PM
30	I2338653-02D20 6020TL	1	25	3	1	8/1/2023 1:44:04 PM
31	CCV	0	9	3	1	8/1/2023 1:50:37 PM
32	CCB	0	10	3	1	8/1/2023 1:55:09 PM
33	WG1809786-1 6020TL	1	26	3	1	8/1/2023 2:17:40 PM
34	L2343822-04 6020TL	1	33	3	1	8/1/2023 2:22:07 PM
35	WG1809786-2D5 6020TL	1	27	3	1	8/1/2023 2:26:37 PM
36	WG1809786-3D10 6020TL	1	29	3	1	8/1/2023 2:31:04 PM
37	WG1809786-5D10 6020TL	1	31	3	1	8/1/2023 2:35:32 PM
38	WG1809786-4D10 6020TL	1	30	3	1	8/1/2023 2:40:01 PM
39	WG1809786-6D5 6020TL	1	32	3	1	8/1/2023 2:44:29 PM
40	L2343170-01 6020TL	1	28	3	1	8/1/2023 2:48:58 PM
41	CCV	0	9	3	1	8/1/2023 2:55:03 PM
42	CCB	0	10	3	1	8/1/2023 2:59:35 PM
43	WG1809732-1 6020TL	1	34	3	1	8/1/2023 3:10:05 PM
44	WG1809732-2D5 6020TL	1	35	3	1	8/1/2023 3:14:35 PM
45	WG1809732-3D10 6020TL	1	37	3	1	8/1/2023 3:19:05 PM
46	WG1809732-5D10 6020TL	1	39	3	1	8/1/2023 3:23:33 PM
47	WG1809732-4 6020TL	1	38	3	1	8/1/2023 3:28:00 PM
48	L2343182-01 6020TL	1	36	3	1	8/1/2023 3:32:28 PM
49	L2343631-01 6020TL	1	41	3	1	8/1/2023 3:36:58 PM
50	L2343657-01 6020TL	1	42	3	1	8/1/2023 3:41:27 PM
51	L2343657-02 6020TL	1	43	3	1	8/1/2023 3:45:55 PM

Alpha ICPMSQ2 Seq

8/2/2023 6:33:23 AM



Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
52	WG1809732-6D5 6020TL	1	40	3	1	8/1/2023 3:50:24 PM
53	CCV	0	9	3	1	8/1/2023 3:54:52 PM
54	CCB	0	10	3	1	8/1/2023 3:59:25 PM
55	L2343657-03 6020TL	1	44	3	1	8/1/2023 4:05:10 PM
56	L2338021-04D5 6020TL	1	45	3	1	8/1/2023 4:09:39 PM
57	L2338021-06D5 6020TL	1	46	3	1	8/1/2023 4:14:09 PM
58	WG1808318-1D2 A2-6020T	1	47	3	1	8/1/2023 4:23:57 PM
59	WG1808318-2D10 A2-6020T	1	48	3	1	8/1/2023 4:28:27 PM
60	WG1808318-3d10 A2-6020T	1	50	3	1	8/1/2023 4:32:58 PM
61	WG1808318-5D10 A2-6020T	1	52	3	1	8/1/2023 4:37:26 PM
62	WG1808318-4D2 A2-6020T	1	51	3	1	8/1/2023 4:41:54 PM
63	L2343121-01D2 A2-6020T	1	49	3	1	8/1/2023 4:46:23 PM
64	WG1808318-6D10 A2-6020T	1	53	3	1	8/1/2023 4:50:51 PM
65	CCV	0	9	3	1	8/1/2023 4:55:20 PM
66	CCB	0	10	3	1	8/1/2023 4:59:52 PM
67	L2343121-02D2 A2-6020T	1	54	3	1	8/1/2023 5:06:09 PM
68	L2343125-01D2 A2-6020T	1	55	3	1	8/1/2023 5:10:38 PM
69	L2343125-02D2 A2-6020T	1	56	3	1	8/1/2023 5:15:07 PM
70	L2343130-01D2 A2-6020T	1	57	3	1	8/1/2023 5:19:36 PM
71	L2343130-02D2 A2-6020T	1	58	3	1	8/1/2023 5:24:06 PM
72	CCV	0	9	3	1	8/1/2023 5:29:28 PM
73	CCB	0	10	3	1	8/1/2023 5:34:00 PM
74	I2340535-06 6020TL	1	59	3	1	8/1/2023 5:48:23 PM
75	I2340535-07 6020TL	1	60	3	1	8/1/2023 5:52:53 PM
76	I2340535-08 6020TL	2	1	3	1	8/1/2023 5:57:24 PM
77	I2340535-09 6020TL	2	2	3	1	8/1/2023 6:01:52 PM
78	I2340857-01 6020TL	2	3	3	1	8/1/2023 6:06:21 PM
79	I2340857-02 6020TL	2	4	3	1	8/1/2023 6:10:50 PM
80	I2340857-03 6020TL	2	5	3	1	8/1/2023 6:15:19 PM
81	I2340857-06 6020TL	2	6	3	1	8/1/2023 6:19:48 PM
82	I2340857-07 6020TL	2	7	3	1	8/1/2023 6:24:17 PM
83	I2340857-08 6020TL	2	8	3	1	8/1/2023 6:28:46 PM
84	CCV	0	9	3	1	8/1/2023 6:33:16 PM
85	CCB	0	10	3	1	8/1/2023 6:37:48 PM
86	CCV	0	9	3	1	8/1/2023 6:43:33 PM
87	CCB	0	10	3	1	8/1/2023 6:48:04 PM
88	WG1808316-1D2 A2-6020T	2	12	3	1	8/1/2023 6:54:58 PM
89	WG1808316-2D10 A2-6020T	2	13	3	1	8/1/2023 6:59:28 PM
90	WG1808316-3D10 A2-6020T	2	15	3	1	8/1/2023 7:03:58 PM
91	WG1808316-5D10 A2-6020T	2	17	3	1	8/1/2023 7:08:27 PM
92	WG1808316-4D2 A2-6020T	2	16	3	1	8/1/2023 7:12:56 PM
93	L2343065-01D2 A2-6020T	2	14	3	1	8/1/2023 7:17:25 PM
94	I2340857-11 6020TL	2	9	3	1	8/1/2023 7:21:55 PM
95	I2339906-05 CT-6020TL	2	10	3	1	8/1/2023 7:26:25 PM
96	I2339906-06 CT-6020TL	2	11	3	1	8/1/2023 7:30:55 PM
97	WG1808316-6D10 A2-6020T	2	18	3	1	8/1/2023 7:35:25 PM
98	CCV	0	9	3	1	8/1/2023 7:39:54 PM
99	CCB	0	10	3	1	8/1/2023 7:44:27 PM
100	L2343065-02D2 A2-6020T	2	19	3	1	8/1/2023 7:49:00 PM
101	L2343073-01D2 A2-6020T	2	20	3	1	8/1/2023 7:53:29 PM
102	L2343073-02D2 A2-6020T	2	21	3	1	8/1/2023 7:57:59 PM
103	L2343084-01D2 A2-6020T	2	22	3	1	8/1/2023 8:02:29 PM
104	L2343084-02D2 A2-6020T	2	23	3	1	8/1/2023 8:06:59 PM
105	L2343088-01D2 A2-6020T	2	24	3	1	8/1/2023 8:11:30 PM
106	L2343088-02D2 A2-6020T	2	25	3	1	8/1/2023 8:16:01 PM
107	L2343096-01D2 A2-6020T	2	26	3	1	8/1/2023 8:20:30 PM

Alpha ICPMSQ2 Seq

8/2/2023 6:33:23 AM



Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
108	L2343096-02D2 A2-6020T	2	27	3	1	8/1/2023 8:25:00 PM
109	L2343100-01D2 A2-6020T	2	28	3	1	8/1/2023 8:29:30 PM
110	CCV	0	9	3	1	8/1/2023 8:33:59 PM
111	CCB	0	10	3	1	8/1/2023 8:38:32 PM
112	L2343100-02D2 A2-6020T	2	29	3	1	8/1/2023 8:43:05 PM
113	L2343104-01D2 A2-6020T	2	30	3	1	8/1/2023 8:47:35 PM
114	L2343104-02D2 A2-6020T	2	31	3	1	8/1/2023 8:52:04 PM
115	L2343110-01D2 A2-6020T	2	32	3	1	8/1/2023 8:56:34 PM
116	L2343110-02D2 A2-6020T	2	33	3	1	8/1/2023 9:01:04 PM
117	L2343116-01D2 A2-6020T	2	34	3	1	8/1/2023 9:05:34 PM
118	L2343116-02D2 A2-6020T	2	35	3	1	8/1/2023 9:10:04 PM
119	L2343118-01D2 A2-6020T	2	36	3	1	8/1/2023 9:14:35 PM
120	L2343118-02D2 A2-6020T	2	37	3	1	8/1/2023 9:19:06 PM
121	CCV	0	9	3	1	8/1/2023 9:23:36 PM
122	CCB	0	10	3	1	8/1/2023 9:28:09 PM
123	CCV	0	9	3	1	8/1/2023 9:32:42 PM
124	CCB	0	10	3	1	8/1/2023 9:37:15 PM
125	LLCCV	4	51	3	1	8/1/2023 9:41:48 PM
126	CCB	0	10	3	1	

Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	8/9/2023 5:52:37 AM
2	CAL LOT #M22-1194	0	1	3	1	8/9/2023 5:57:04 AM
3	Blank SMV ICPMSQ2	4	49	3	1	8/9/2023 6:01:31 AM
4	0.2/20 Cal	0	2	3	1	8/9/2023 6:06:03 AM
5	1/100 Cal	0	3	3	1	8/9/2023 6:10:31 AM
6	10/1000 Cal	0	4	3	1	8/9/2023 6:15:00 AM
7	60/6000 Cal	0	5	3	1	8/9/2023 6:19:29 AM
8	120/12000 Cal	0	6	3	1	8/9/2023 6:23:59 AM
9	Sr 200ppb	4	55	3	1	8/9/2023 6:28:29 AM
10	ICV	0	7	3	1	8/9/2023 6:33:02 AM
11	ICB	0	10	3	1	8/9/2023 6:37:32 AM
12	LLCCV	4	51	3	1	8/9/2023 6:46:28 AM
13	ICSA	4	53	3	1	8/9/2023 6:51:00 AM
14	Rinse	0	1	3	1	8/9/2023 6:55:32 AM
15	CCV	0	9	3	1	8/9/2023 6:59:59 AM
16	CCB	0	10	3	1	8/9/2023 7:04:31 AM
17	L2343170-02 6020TL	1	1	3	1	8/9/2023 7:09:38 AM
18	L2343170-03 6020TL	1	2	3	1	8/9/2023 7:14:06 AM
19	L2343145-02 6020TL	1	13	3	1	8/9/2023 7:18:34 AM
20	L2343145-06 6020TL	1	14	3	1	8/9/2023 7:23:01 AM
21	L2343145-07 6020TL	1	15	3	1	8/9/2023 7:27:28 AM
22	L2343145-08 6020TL	1	16	3	1	8/9/2023 7:31:56 AM
23	L2343024-01 6020TL	1	3	3	1	8/9/2023 7:36:24 AM
24	L2343024-02 6020TL	1	4	3	1	8/9/2023 7:40:52 AM
25	L2343024-03 6020TL	1	5	3	1	8/9/2023 7:45:21 AM
26	L2343024-04 6020TL	1	6	3	1	8/9/2023 7:49:50 AM
27	CCV	0	9	3	1	8/9/2023 7:54:20 AM
28	CCB	0	10	3	1	8/9/2023 7:58:52 AM
29	WG1809013-1 6020SL	1	17	3	1	8/9/2023 8:05:29 AM
30	WG1809013-2D10 6020SL	1	18	3	1	8/9/2023 8:09:56 AM
31	zL2343081-01 6020TL	1	7	3	1	8/9/2023 8:14:25 AM
32	zL2343081-02 6020TL	1	8	3	1	8/9/2023 8:18:55 AM
33	zL2343081-03 6020TL	1	9	3	1	8/9/2023 8:23:25 AM
34	xL2343081-04 6020TL	1	10	3	1	8/9/2023 8:27:55 AM
35	zL2343081-05D10 6020TL	1	11	3	1	8/9/2023 8:39:26 AM
36	zL2343081-06D10 6020TL	1	12	3	1	8/9/2023 8:43:56 AM
37	L2343081-01D20 6020TL	1	35	3	1	8/9/2023 8:48:27 AM
38	L2343081-02D10 6020TL	1	36	3	1	8/9/2023 8:52:57 AM
39	CCV	0	9	3	1	8/9/2023 8:57:27 AM
40	CCB	0	10	3	1	8/9/2023 9:01:59 AM
41	CCV	0	9	3	1	8/9/2023 9:14:27 AM
42	CCB	0	10	3	1	8/9/2023 9:18:58 AM
43	L2343081-03D10 6020TL	1	37	3	1	8/9/2023 9:23:53 AM
44	zL2343081-04D10 6020TL	1	38	3	1	8/9/2023 9:28:21 AM
45	L2343081-05D100 6020TL	1	39	3	1	8/9/2023 9:32:49 AM
46	L2343081-06D50 6020TL	1	40	3	1	8/9/2023 9:37:16 AM
47	L2343081-04D50 6020TL	1	41	3	1	8/9/2023 9:41:44 AM
48	WG1809013-3D10 6020SL	1	20	3	1	8/9/2023 9:46:13 AM
49	WG1809013-5D10 6020SL	1	22	3	1	8/9/2023 9:50:42 AM
50	WG1809013-4 6020SL	1	21	3	1	8/9/2023 9:55:11 AM
51	L2342975-02 6020SL	1	19	3	1	8/9/2023 9:59:41 AM

Alpha ICPMSQ2 Seq

8/9/2023 3:53:21 PM



Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
52	WG1809013-6D5 6020SL	1	23	3	1	8/9/2023 10:04:10 AM
53	CCV	0	9	3	1	8/9/2023 10:08:40 AM
54	CCB	0	10	3	1	8/9/2023 10:13:12 AM
55	L2342975-04 6020SL	1	24	3	1	8/9/2023 10:18:54 AM
56	L2342975-06 6020SL	1	25	3	1	8/9/2023 10:23:24 AM
57	L2342975-08 6020SL	1	26	3	1	8/9/2023 10:27:51 AM
58	L2343024-01 6020SL	1	27	3	1	8/9/2023 10:32:18 AM
59	L2343024-02 6020SL	1	28	3	1	8/9/2023 10:36:46 AM
60	L2343024-03 6020SL	1	29	3	1	8/9/2023 10:41:14 AM
61	L2343024-04 6020SL	1	30	3	1	8/9/2023 10:45:43 AM
62	L2343182-01 6020SL	1	31	3	1	8/9/2023 10:50:11 AM
63	L2343182-02 6020SL	1	32	3	1	8/9/2023 10:54:40 AM
64	L2343182-03 6020SL	1	33	3	1	8/9/2023 10:59:09 AM
65	CCV	0	9	3	1	8/9/2023 11:03:39 AM
66	CCB	0	10	3	1	8/9/2023 11:08:11 AM
67	WG1813615-1D10 6020TS	1	42	3	1	8/9/2023 11:14:02 AM
68	WG1813615-2D10 6020TS	1	43	3	1	8/9/2023 11:18:30 AM
69	L2343182-04 6020SL	1	34	3	1	8/9/2023 11:22:59 AM
70	WG1813615-3D10 6020TS	1	45	3	1	8/9/2023 11:27:29 AM
71	WG1813615-5D10 6020TS	1	47	3	1	8/9/2023 11:31:59 AM
72	WG1813615-4D10 6020TS	1	46	3	1	8/9/2023 11:36:29 AM
73	I2345740-21D10 6020TS	1	44	3	1	8/9/2023 11:40:59 AM
74	I2345740-22D10 6020TS	1	49	3	1	8/9/2023 11:45:28 AM
75	I2345740-23D10 6020TS	1	50	3	1	8/9/2023 11:49:56 AM
76	WG1813615-6D50 6020TS	1	48	3	1	8/9/2023 11:54:25 AM
77	CCV	0	9	3	1	8/9/2023 11:58:55 AM
78	CCB	0	10	3	1	8/9/2023 12:03:28 PM
79	WG1813612-1D10 6020TS	1	57	3	1	8/9/2023 12:13:09 PM
80	WG1813612-2D10 6020TS	1	58	3	1	8/9/2023 12:17:38 PM
81	I2345740-24D10 6020TS	1	51	3	1	8/9/2023 12:22:08 PM
82	I2345740-25D10 6020TS	1	52	3	1	8/9/2023 12:26:37 PM
83	I2345740-26D10 6020TS	1	53	3	1	8/9/2023 12:31:05 PM
84	I2345740-27D10 6020TS	1	54	3	1	8/9/2023 12:35:34 PM
85	I2345740-28D10 6020TS	1	55	3	1	8/9/2023 12:40:03 PM
86	I2345740-29D10 6020TS	1	56	3	1	8/9/2023 12:44:32 PM
87	I2345740-02D10 6020TS	2	4	3	1	8/9/2023 12:49:01 PM
88	I2345740-03D10 6020TS	2	5	3	1	8/9/2023 12:53:30 PM
89	CCV	0	9	3	1	8/9/2023 12:57:59 PM
90	CCB	0	10	3	1	8/9/2023 1:02:32 PM
91	CCV	0	9	3	1	8/9/2023 1:10:36 PM
92	CCB	0	10	3	1	8/9/2023 1:15:09 PM
93	WG1813612-3D10 6020TS	1	60	3	1	8/9/2023 1:19:42 PM
94	WG1813612-5D10 6020TS	2	2	3	1	8/9/2023 1:24:13 PM
95	WG1813612-4D10 6020TS	2	1	3	1	8/9/2023 1:28:42 PM
96	I2345740-01D10 6020TS	1	59	3	1	8/9/2023 1:33:11 PM
97	I2345740-04D10 6020TS	2	6	3	1	8/9/2023 1:37:41 PM
98	I2345740-05D10 6020TS	2	7	3	1	8/9/2023 1:42:11 PM
99	I2345740-06D10 6020TS	2	8	3	1	8/9/2023 1:46:40 PM
100	I2345740-07D10 6020TS	2	9	3	1	8/9/2023 1:51:10 PM
101	I2345740-08D10 6020TS	2	10	3	1	8/9/2023 1:55:39 PM
102	WG1813612-6D50 6020TS	2	3	3	1	8/9/2023 2:00:10 PM
103	CCV	0	9	3	1	8/9/2023 2:04:39 PM
104	CCB	0	10	3	1	8/9/2023 2:09:12 PM
105	CCV	0	9	3	1	8/9/2023 2:15:47 PM
106	CCB	0	10	3	1	8/9/2023 2:20:20 PM
107	I2345740-09D10 6020TS	2	11	3	1	8/9/2023 2:25:17 PM

Alpha ICPMSQ2 Seq

8/9/2023 3:53:21 PM



Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
108	I2345740-10D10 6020TS	2	12	3	1	8/9/2023 2:29:47 PM
109	I2345740-11D10 6020TS	2	13	3	1	8/9/2023 2:34:18 PM
110	I2345740-12D10 6020TS	2	14	3	1	8/9/2023 2:38:47 PM
111	I2345740-13D10 6020TS	2	15	3	1	8/9/2023 2:43:16 PM
112	I2345740-14D10 6020TS	2	16	3	1	8/9/2023 2:47:46 PM
113	I2345740-15D10 6020TS	2	17	3	1	8/9/2023 2:52:15 PM
114	I2345740-16D10 6020TS	2	18	3	1	8/9/2023 2:56:45 PM
115	I2345740-17D10 6020TS	2	19	3	1	8/9/2023 3:01:14 PM
116	I2345740-18D10 6020TS	2	20	3	1	8/9/2023 3:05:44 PM
117	CCV	0	9	3	1	8/9/2023 3:10:13 PM
118	CCB	0	10	3	1	8/9/2023 3:14:46 PM
119	xl2345740-19D10 6020TS	2	21	3	1	8/9/2023 3:20:16 PM
120	xl2345740-20D20 6020TS	2	22	3	1	8/9/2023 3:24:46 PM
121	CCV	0	9	3	1	8/9/2023 3:30:17 PM
122	CCB	0	10	3	1	8/9/2023 3:34:50 PM
123	CCV	0	9	3	1	8/9/2023 3:40:12 PM
124	CCB	0	10	3	1	8/9/2023 3:44:44 PM

Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	8/9/2023 3:50:01 PM
2	CAL LOT #M22-1194	0	1	3	1	8/9/2023 3:54:27 PM
3	Blank WKP ICPMSQ2	4	49	3	1	8/9/2023 3:58:54 PM
4	0.2/20 Cal	0	2	3	1	8/9/2023 4:03:26 PM
5	1/100 Cal	0	3	3	1	8/9/2023 4:07:54 PM
6	10/1000 Cal	0	4	3	1	8/9/2023 4:12:22 PM
7	60/6000 Cal	0	5	3	1	8/9/2023 4:16:51 PM
8	120/12000 Cal	0	6	3	1	8/9/2023 4:21:21 PM
9	Sr 200ppb	4	55	3	1	8/9/2023 4:25:51 PM
10	ICV	0	7	3	1	8/9/2023 4:30:24 PM
11	ICB	0	10	3	1	8/9/2023 4:34:55 PM
12	WG1813012-1 2008TL	2	21	3	1	8/9/2023 4:40:29 PM
13	WG1813012-2D10 2008TL	2	22	3	1	8/9/2023 4:44:58 PM
14	WG1813012-3D10 2008TL	2	24	3	1	8/9/2023 4:49:28 PM
15	WG1813012-4 2008TL	2	25	3	1	8/9/2023 4:53:58 PM
16	L2343641-01 2008TL	2	23	3	1	8/9/2023 4:58:27 PM
17	L2345268-01 2008TL	2	26	3	1	8/9/2023 5:02:57 PM
18	L2345503-01 2008TL	2	27	3	1	8/9/2023 5:07:25 PM
19	L2345505-01 2008TL	2	28	3	1	8/9/2023 5:11:54 PM
20	L2345533-01 2008TL	2	29	3	1	8/9/2023 5:16:24 PM
21	L2345533-02 2008TL	2	30	3	1	8/9/2023 5:20:52 PM
22	CCV	0	9	3	1	8/9/2023 5:25:22 PM
23	CCB	0	10	3	1	8/9/2023 5:29:54 PM
24	CCV	0	9	3	1	8/9/2023 5:40:41 PM
25	CCB	0	10	3	1	8/9/2023 5:45:13 PM
26	wg1813496-1 2008TL	2	31	3	1	8/9/2023 5:50:13 PM
27	WG1811915-1 2008TL	2	37	3	1	8/9/2023 5:54:42 PM
28	wg1813496-2D10 2008TL	2	32	3	1	8/9/2023 5:59:12 PM
29	WG1811915-2D10 2008TL	2	38	3	1	8/9/2023 6:03:41 PM
30	wg1813496-3D10 2008TL	2	34	3	1	8/9/2023 6:08:10 PM
31	wg1813496-4 2008TL	2	35	3	1	8/9/2023 6:12:40 PM
32	L2345788-01 2008TL	2	33	3	1	8/9/2023 6:17:10 PM
33	L2345788-02 2008TL	2	36	3	1	8/9/2023 6:21:39 PM
34	WG1811915-4 2008TL	2	41	3	1	8/9/2023 6:26:09 PM
35	L2345014-01 2008TL	2	39	3	1	8/9/2023 6:30:39 PM
36	CCV	0	9	3	1	8/9/2023 6:35:08 PM
37	CCB	0	10	3	1	8/9/2023 6:39:40 PM
38	WG1811915-3D10 2008TL	2	40	3	1	8/9/2023 6:45:09 PM
39	WG1811915-5D10 2008TL	2	43	3	1	8/9/2023 6:49:37 PM
40	WG1811915-6 2008TL	2	44	3	1	8/9/2023 6:54:07 PM
41	L2345014-02 2008TL	2	42	3	1	8/9/2023 6:58:36 PM
42	L2344731-01 2008TL	2	45	3	1	8/9/2023 7:03:06 PM
43	L2344736-01 2008TL	2	46	3	1	8/9/2023 7:07:35 PM
44	L2344988-01 2008TL	2	47	3	1	8/9/2023 7:12:05 PM
45	L2344988-02 2008TL	2	48	3	1	8/9/2023 7:16:35 PM
46	I2342659-01D20 2008TL	2	49	3	1	8/9/2023 7:21:06 PM
47	I2343306-01D5 2008TL	2	50	3	1	8/9/2023 7:25:35 PM
48	CCV	0	9	3	1	8/9/2023 7:30:05 PM
49	CCB	0	10	3	1	8/9/2023 7:34:37 PM
50	I2343448-01 2008TL	2	51	3	1	8/9/2023 7:40:42 PM
51	I2343762-01 2008TL	2	52	3	1	8/9/2023 7:45:12 PM

Alpha ICPMSQ2 Seq

8/10/2023 7:16:22 AM



Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
52	L2345009-01 2008TL	2	53	3	1	8/9/2023 7:49:42 PM
53	L2345009-02 2008TL	2	54	3	1	8/9/2023 7:54:11 PM
54	CCV	0	9	3	1	8/9/2023 8:09:55 PM
55	CCB	0	10	3	1	8/9/2023 8:14:27 PM
56	CCV	0	9	3	1	8/9/2023 9:35:31 PM
57	CCB	0	10	3	1	8/9/2023 9:40:36 PM
58	wg1809144-1 6020TL	2	55	3	1	8/9/2023 9:50:11 PM
59	wg1809144-2D10 6020TL	2	56	3	1	8/9/2023 9:54:41 PM
60	wg1809144-3D10 6020TL	2	58	3	1	8/9/2023 9:59:11 PM
61	xwg1809144-5D10 6020TL	2	60	3	1	8/9/2023 10:03:41 PM
62	xwg1809144-4 6020TL	2	59	3	1	8/9/2023 10:08:12 PM
63	xL2343188-01 6020TL	2	57	3	1	8/9/2023 10:12:42 PM
64	wg1809144-5D10 6020TL	2	60	3	1	8/9/2023 10:20:22 PM
65	wg1809144-4 6020TL	2	59	3	1	8/9/2023 10:24:52 PM
66	L2343188-01 6020TL	2	57	3	1	8/9/2023 10:29:22 PM
67	wg1809144-6D5 6020TL	3	1	3	1	8/9/2023 10:33:52 PM
68	CCV	0	9	3	1	8/9/2023 10:38:22 PM
69	CCB	0	10	3	1	8/9/2023 10:42:55 PM
70	L2343188-02 6020TL	3	2	3	1	8/9/2023 10:47:28 PM
71	L2343188-03 6020TL	3	3	3	1	8/9/2023 10:51:58 PM
72	L2343188-04 6020TL	3	4	3	1	8/9/2023 10:56:29 PM
73	L2343527-01 6020TL	3	5	3	1	8/9/2023 11:00:59 PM
74	L2343527-02 6020TL	3	6	3	1	8/9/2023 11:05:29 PM
75	L2343527-03 6020TL	3	7	3	1	8/9/2023 11:10:00 PM
76	L2343527-04 6020TL	3	8	3	1	8/9/2023 11:14:30 PM
77	L2343527-05 6020TL	3	9	3	1	8/9/2023 11:19:00 PM
78	L2343527-06 6020TL	3	10	3	1	8/9/2023 11:23:31 PM
79	L2343527-07 6020TL	3	11	3	1	8/9/2023 11:28:01 PM
80	CCV	0	9	3	1	8/9/2023 11:32:32 PM
81	CCB	0	10	3	1	8/9/2023 11:37:04 PM
82	L2343527-08 6020TL	3	12	3	1	8/9/2023 11:41:37 PM
83	L2343527-09 6020TL	3	13	3	1	8/9/2023 11:46:08 PM
84	L2343527-10 6020TL	3	14	3	1	8/9/2023 11:50:39 PM
85	CCV	0	9	3	1	8/9/2023 11:55:09 PM
86	CCB	0	10	3	1	8/9/2023 11:59:42 PM
87	CCV	0	9	3	1	8/10/2023 12:04:15 AM
88	CCB	0	10	3	1	8/10/2023 12:08:47 AM
89	LLCCV	4	51	3	1	8/10/2023 12:13:21 AM
90	CCB	0	10	3	1	

Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	8/13/2023 8:30:35 AM
2	CAL LOT #M22-1194	0	1	3	1	8/13/2023 8:35:02 AM
3	Blank SMV ICPMSQ2	4	49	3	1	8/13/2023 8:39:30 AM
4	0.2/20 Cal	0	2	3	1	8/13/2023 8:44:02 AM
5	1/100 Cal	0	3	3	1	8/13/2023 8:48:30 AM
6	10/1000 Cal	0	4	3	1	8/13/2023 8:52:58 AM
7	60/6000 Cal	0	5	3	1	8/13/2023 8:57:27 AM
8	120/12000 Cal	0	6	3	1	8/13/2023 9:01:57 AM
9	Sr 200ppb	4	55	3	1	8/13/2023 9:06:27 AM
10	ICV	0	7	3	1	8/13/2023 9:11:00 AM
11	ICB	0	10	3	1	8/13/2023 9:15:31 AM
12	LLCCV	4	51	3	1	8/13/2023 9:21:07 AM
13	ICSA	4	53	3	1	8/13/2023 9:25:39 AM
14	Rinse	0	1	3	1	8/13/2023 9:30:11 AM
15	CCV	0	9	3	1	8/13/2023 9:34:38 AM
16	CCB	0	10	3	1	8/13/2023 9:39:10 AM
17	wg1814674-1 2008TL	1	1	3	1	8/13/2023 9:44:09 AM
18	WG1814779-1 2008TL	1	6	3	1	8/13/2023 9:48:36 AM
19	WG1814779-2D10 2008TL	1	7	3	1	8/13/2023 9:53:05 AM
20	xwg1814674-2D10 2008TL	1	2	3	1	8/13/2023 9:57:35 AM
21	L2345656-01 2008TL	1	3	3	1	8/13/2023 10:02:03 AM
22	wg1814674-2D10 2008TL	1	14	3	1	8/13/2023 10:06:32 AM
23	wg1814674-5D10 2008TL	1	4	3	1	8/13/2023 10:10:59 AM
24	wg1814674-6 2008TL	1	5	3	1	8/13/2023 10:15:28 AM
25	WG1814779-4 2008TL	1	10	3	1	8/13/2023 10:19:57 AM
26	I2344496-07 2008TL	1	8	3	1	8/13/2023 10:24:27 AM
27	CCV	0	9	3	1	8/13/2023 10:28:57 AM
28	CCB	0	10	3	1	8/13/2023 10:33:29 AM
29	WG1814779-3D10 2008TL	1	9	3	1	8/13/2023 10:39:33 AM
30	I2344496-06 2008TL	1	11	3	1	8/13/2023 10:44:02 AM
31	I2344503-01 2008TL	1	12	3	1	8/13/2023 10:50:44 AM
32	I2344503-02 2008TL	1	13	3	1	8/13/2023 10:55:14 AM
33	I2344308-05D10 CT-6020TL	1	15	3	1	8/13/2023 10:59:41 AM
34	I2344308-02D5 CT-6020SL	1	16	3	1	8/13/2023 11:04:09 AM
35	I2344308-05D10 CT-6020SL	1	17	3	1	8/13/2023 11:08:37 AM
36	WG1812058-1D10 6020TS	1	18	3	1	8/13/2023 11:16:25 AM
37	WG1812058-2D10 6020TS	1	19	3	1	8/13/2023 11:20:54 AM
38	I2344633-02D10 6020TS	1	20	3	1	8/13/2023 11:25:23 AM
39	CCV	0	9	3	1	8/13/2023 11:29:52 AM
40	CCB	0	10	3	1	8/13/2023 11:34:24 AM
41	WG1809786-7D10 6020TL	1	22	3	1	8/13/2023 11:45:39 AM
42	WG1809786-8D10 6020TL	1	23	3	1	8/13/2023 11:50:08 AM
43	WG1809786-9D10 6020TL	1	24	3	1	8/13/2023 11:54:38 AM
44	WG1809786-10D5 6020TL	1	25	3	1	8/13/2023 11:59:08 AM
45	L2343197-01 6020TL	1	21	3	1	8/13/2023 12:03:35 PM
46	L2343197-03 6020TL	1	26	3	1	8/13/2023 12:08:05 PM
47	L2345481-02 6020SL	1	27	3	1	8/13/2023 12:12:32 PM
48	CCV	0	9	3	1	8/13/2023 12:23:28 PM
49	CCB	0	10	3	1	8/13/2023 12:28:00 PM
50	CCV	0	9	3	1	8/13/2023 12:33:40 PM
51	CCB	0	10	3	1	8/13/2023 12:38:12 PM



Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	8/13/2023 1:13:39 PM
2	CAL LOT #M22-1194	0	1	3	1	8/13/2023 1:18:05 PM
3	Blank SMV ICPMSQ2	4	49	3	1	8/13/2023 1:22:32 PM
4	0.2/20 Cal	0	2	3	1	8/13/2023 1:27:04 PM
5	1/100 Cal	0	3	3	1	8/13/2023 1:31:32 PM
6	10/1000 Cal	0	4	3	1	8/13/2023 1:36:00 PM
7	60/6000 Cal	0	5	3	1	8/13/2023 1:40:30 PM
8	120/12000 Cal	0	6	3	1	8/13/2023 1:44:59 PM
9	Sr 200ppb	4	55	3	1	8/13/2023 1:49:30 PM
10	ICV	0	7	3	1	8/13/2023 1:54:02 PM
11	ICB	0	10	3	1	8/13/2023 1:58:33 PM
12	WG1814150-1 6020TL	1	28	3	1	8/13/2023 2:07:06 PM
13	WG1810773-1 6020TL	1	36	3	1	8/13/2023 2:11:33 PM
14	WG1810773-2D10 6020TL	1	37	3	1	8/13/2023 2:16:03 PM
15	WG1814150-2D10 6020TL	1	29	3	1	8/13/2023 2:20:31 PM
16	WG1814150-3D10 6020TL	1	31	3	1	8/13/2023 2:24:59 PM
17	WG1814150-5D10 6020TL	1	33	3	1	8/13/2023 2:29:28 PM
18	WG1814150-4 6020TL	1	32	3	1	8/13/2023 2:33:57 PM
19	L2346014-02 6020TL	1	30	3	1	8/13/2023 2:38:26 PM
20	L2345809-07 6020TL	1	35	3	1	8/13/2023 2:42:54 PM
21	WG1814150-6D5 6020TL	1	34	3	1	8/13/2023 2:47:24 PM
22	CCV	0	9	3	1	8/13/2023 2:51:54 PM
23	CCB	0	10	3	1	8/13/2023 2:56:26 PM
24	L2344357-02 6020TL	1	48	3	1	8/13/2023 3:06:54 PM
25	L2344357-03 6020TL	1	49	3	1	8/13/2023 3:11:24 PM
26	L2344357-04 6020TL	1	50	3	1	8/13/2023 3:16:56 PM
27	L2344357-05 6020TL	1	51	3	1	8/13/2023 3:21:23 PM
28	L2344357-06 6020TL	1	52	3	1	8/13/2023 3:25:51 PM
29	L2343980-03 6020TL	1	38	3	1	8/13/2023 3:30:19 PM
30	WG1810773-3D10 6020TL	1	39	3	1	8/13/2023 3:34:47 PM
31	WG1810773-4D10 6020TL	1	40	3	1	8/13/2023 3:39:15 PM
32	WG1810773-5D10 6020TL	1	41	3	1	8/13/2023 3:43:43 PM
33	WG1810773-6D5 6020TL	1	42	3	1	8/13/2023 3:48:11 PM
34	CCV	0	9	3	1	8/13/2023 3:52:39 PM
35	CCB	0	10	3	1	8/13/2023 3:57:11 PM
36	WG1805093-1D10 A2-6020T	1	57	3	1	8/13/2023 4:06:13 PM
37	WG1805093-2D10 A2-6020T	1	58	3	1	8/13/2023 4:10:41 PM
38	L2344357-07 6020TL	1	53	3	1	8/13/2023 4:15:11 PM
39	L2344357-08 6020TL	1	54	3	1	8/13/2023 4:19:39 PM
40	I2341121-02D10 A2-6020T	1	59	3	1	8/13/2023 4:24:08 PM
41	WG1805093-3D10 A2-6020T	1	60	3	1	8/13/2023 4:28:38 PM
42	WG1805093-4D10 A2-6020T	2	1	3	1	8/13/2023 4:33:09 PM
43	WG1805093-5D10 A2-6020T	2	2	3	1	8/13/2023 4:37:37 PM
44	WG1805093-6D50 A2-6020T	2	3	3	1	8/13/2023 4:42:06 PM
45	L2344357-05D5 6020TL	2	30	3	1	8/13/2023 4:46:34 PM
46	CCV	0	9	3	1	8/13/2023 4:51:04 PM
47	CCB	0	10	3	1	8/13/2023 4:55:36 PM
48	L2344357-10 6020TL	1	55	3	1	8/13/2023 5:02:13 PM
49	I2341121-05D10 A2-6020T	2	14	3	1	8/13/2023 5:06:41 PM
50	I2341121-06D10 A2-6020T	2	15	3	1	8/13/2023 5:11:10 PM
51	I2341121-07D10 A2-6020T	2	16	3	1	8/13/2023 5:15:39 PM

Alpha ICPMSQ2 Seq

8/14/2023 8:22:23 AM



Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
52	I2341121-03D10 A2-6020T	2	4	3	1	8/13/2023 5:20:08 PM
53	I2341121-08D10 A2-6020T	2	17	3	1	8/13/2023 5:24:36 PM
54	WG1805093-7D10 A2-6020T	2	5	3	1	8/13/2023 5:29:05 PM
55	WG1805093-8D10 A2-6020T	2	6	3	1	8/13/2023 5:33:34 PM
56	WG1805093-9D10 A2-6020T	2	7	3	1	8/13/2023 5:38:03 PM
57	WG1805093-10D50 A2-6020T	2	8	3	1	8/13/2023 5:42:32 PM
58	CCV	0	9	3	1	8/13/2023 5:47:01 PM
59	CCB	0	10	3	1	8/13/2023 5:51:33 PM
60	L2344357-11 6020TL	1	56	3	1	8/13/2023 5:56:06 PM
61	I2341121-09D10 A2-6020T	2	18	3	1	8/13/2023 6:00:36 PM
62	I2341121-10D10 A2-6020T	2	19	3	1	8/13/2023 6:05:05 PM
63	I2341121-11D10 A2-6020T	2	20	3	1	8/13/2023 6:09:34 PM
64	I2341121-12D10 A2-6020T	2	21	3	1	8/13/2023 6:14:03 PM
65	I2341121-04D10 A2-6020T	2	9	3	1	8/13/2023 6:18:33 PM
66	WG1805093-11D10 A2-6020T	2	10	3	1	8/13/2023 6:23:03 PM
67	WG1805093-12D10 A2-6020T	2	11	3	1	8/13/2023 6:27:33 PM
68	WG1805093-13D10 A2-6020T	2	12	3	1	8/13/2023 6:32:03 PM
69	WG1805093-14D50 A2-6020T	2	13	3	1	8/13/2023 6:36:34 PM
70	CCV	0	9	3	1	8/13/2023 6:41:03 PM
71	CCB	0	10	3	1	8/13/2023 6:45:35 PM
72	I2341121-13D10 A2-6020T	2	22	3	1	8/13/2023 6:50:08 PM
73	I2341121-14D10 A2-6020T	2	23	3	1	8/13/2023 6:54:39 PM
74	I2341121-15D10 A2-6020T	2	24	3	1	8/13/2023 6:59:09 PM
75	I2341121-16D10 A2-6020T	2	25	3	1	8/13/2023 7:03:40 PM
76	I2341121-17D10 A2-6020T	2	26	3	1	8/13/2023 7:08:09 PM
77	L2344357-01 6020TL	1	43	3	1	8/13/2023 7:12:39 PM
78	WG1810773-7D10 6020TL	1	44	3	1	8/13/2023 7:17:08 PM
79	WG1810773-8D10 6020TL	1	45	3	1	8/13/2023 7:21:37 PM
80	WG1810773-9D10 6020TL	1	46	3	1	8/13/2023 7:26:07 PM
81	WG1810773-10D5 6020TL	1	47	3	1	8/13/2023 7:30:37 PM
82	CCV	0	9	3	1	8/13/2023 7:35:08 PM
83	CCB	0	10	3	1	8/13/2023 7:39:40 PM
84	I2341121-18D10 A2-6020T	2	27	3	1	8/13/2023 7:44:13 PM
85	I2341121-19D10 A2-6020T	2	28	3	1	8/13/2023 7:48:43 PM
86	I2341121-20D10 A2-6020T	2	29	3	1	8/13/2023 7:53:12 PM
87	CCV	0	9	3	1	8/13/2023 7:57:42 PM
88	CCB	0	10	3	1	8/13/2023 8:02:14 PM
89	CCV	0	9	3	1	8/13/2023 8:06:47 PM
90	CCB	0	10	3	1	8/13/2023 8:11:20 PM
91	LLCCV	4	51	3	1	8/13/2023 8:15:53 PM
92	CCB	0	10	3	1	



METALS ELN REPORT

Workgroup: WG1809786

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO32330241958CLH	1:1 HCl	tHCL2330241953CLH	METALS	METSPIKE2	IPS, FPS, MIX	METPSMS	IPS, FPS, MIX	326,140

Additional Reagent/Std

Sample/Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2200085-03 WATER	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	Boron QC Dummy
L2343170-01 WATER	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	
L2343170-02 WATER	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	
L2343170-03 WATER	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	
L2343197-01 WATER	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	
L2343197-03 WATER	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	
L2343325-01 WATER	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	
L2343339-01 WATER	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	
L2343339-02 WATER	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	
L2343339-03 WATER	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	
L2343822-04 WATER	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	
L2343831-07 SAMP	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	
WG1809786-1 BLANK	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	FM2329201913 CLH



METALS ELN REPORT

Workgroup: WG1809786

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1809786- 2 LCS	07/31/23 21:47	Harry Brown	50	<2	.5	07/31/23 21:47	9	95.0	08/01/23 00:47	50	
WG1809786- 3 MS	07/31/23 21:47	Harry Brown	50	<2	.5	07/31/23 21:47	9	95.0	08/01/23 00:47	50	ELN: CLH
WG1809786- 4 MSD	07/31/23 21:47	Harry Brown	50	<2	.5	07/31/23 21:47	9	95.0	08/01/23 00:47	50	
WG1809786- 5 PS	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	
WG1809786- 6 SERDIL	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	
WG1809786- 7 MS	07/31/23 21:47	Harry Brown	50	<2	.5	07/31/23 21:47	9	95.0	08/01/23 00:47	50	
WG1809786- 8 MSD	07/31/23 21:47	Harry Brown	50	<2	.5	07/31/23 21:47	9	95.0	08/01/23 00:47	50	
WG1809786- 9 PS	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	
WG1809786- 10 SERDIL	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	IPS232629005 1CLH
WG1809786- 11 BLANK	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	
WG1809786- 12 LCS	07/31/23 21:47	Harry Brown	50	<2	.5	07/31/23 21:47	9	95.0	08/01/23 00:47	50	
WG1809786- 13 MS	07/31/23 21:47	Harry Brown	50	<2	.5	07/31/23 21:47	9	95.0	08/01/23 00:47	50	
WG1809786- 14 MSD	07/31/23 21:47	Harry Brown	50	<2	.5	07/31/23 21:47	9	95.0	08/01/23 00:47	50	



METALS ELN REPORT

Workgroup: WG1809786

Sample/ Type	Digestion Date	Analyst	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1809786- 15 PS	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	
WG1809786- 16 SERDIL	07/31/23 21:47	Harry Brown	50	<2		07/31/23 21:47	9	95.0	08/01/23 00:47	50	

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Inorganic Data (Mercury Analysis)

Form 1 METALS

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Lab ID : L2343170-01
Client ID : YS-MW-2023-01 072623
Sample Location : ROCHESTER, NY
Sample Matrix : WATER
Analytical Method : 1,7470A
Lab File ID : WG1810814.pdf
Sample Amount : 25ml
Digestion Method : EPA 7470A

Lab Number : L2343170
Project Number : 2230119
Date Collected : 07/26/23 10:45
Date Received : 07/26/23
Date Analyzed : 08/02/23 12:54
Dilution Factor : 1
Analyst : MJR
Instrument ID : NIC3
%Solids : N/A
Date Digested : 07/31/23

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U



Form 1 METALS

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Lab ID : WG1809790-1
Client ID : WG1809790-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 1,7470A
Lab File ID : WG1810814.pdf
Sample Amount : 25ml
Digestion Method : EPA 7470A

Lab Number : L2343170
Project Number : 2230119
Date Collected : NA
Date Received : NA
Date Analyzed : 08/02/23 12:47
Dilution Factor : 1
Analyst : MJR
Instrument ID : NIC3
%Solids : N/A
Date Digested : 07/31/23

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U



Form 1 METALS

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Lab ID : L2343170-02
Client ID : MW-01 072623
Sample Location : ROCHESTER, NY
Sample Matrix : WATER
Analytical Method : 1,7470A
Lab File ID : WG1815348.pdf
Sample Amount : 25ml
Digestion Method : EPA 7470A

Lab Number : L2343170
Project Number : 2230119
Date Collected : 07/26/23 13:10
Date Received : 07/26/23
Date Analyzed : 08/13/23 22:48
Dilution Factor : 1
Analyst : TAA
Instrument ID : NIC1
%Solids : N/A
Date Digested : 07/31/23

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U



Form 1 METALS

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Lab ID : L2343170-03
Client ID : YS-MW-BD- 072623
Sample Location : ROCHESTER, NY
Sample Matrix : WATER
Analytical Method : 1,7470A
Lab File ID : WG1815348.pdf
Sample Amount : 25ml
Digestion Method : EPA 7470A

Lab Number : L2343170
Project Number : 2230119
Date Collected : 07/26/23 00:00
Date Received : 07/26/23
Date Analyzed : 08/13/23 22:52
Dilution Factor : 1
Analyst : TAA
Instrument ID : NIC1
%Solids : N/A
Date Digested : 07/31/23

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : NIC3

Lab Number : L2343170
 Project Number : 2230119
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Mercury	0.00300	0.0029	98	0.0050	0.00510	101	0.00500	101		

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : NIC1

Lab Number : L2343170
 Project Number : 2230119
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)							
	True	Found	%R	True	Found	%R	Found	%R	Found	%R	
Mercury	0.00300	0.0031	105	0.0050	0.00510	101	0.00520	103	0.00520	103	

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : NIC1

Lab Number : L2343170
 Project Number : 2230119
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Mercury				0.0050	0.00510	102	0.00520	103	0.00510	102

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 2A Initial and Continuing Calibration Verification

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : NIC1

Lab Number : L2343170
 Project Number : 2230119
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Mercury				0.0050	0.00520	103	0.00520	103		

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 85-115% (Method 1631)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Methods 200.8, 1631)
 80-120% (Methods 7470, 7471)



Form 3 Blanks

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : NIC3

Lab Number : L2343170
 Project Number : 2230119

Parameter	Initial Calibration		Continuing Calibration				Preparation	
	Blank		Blank(s)				Blank	
Lab ID :	R1725209-2		R1725209-4		R1725209-6		WG1809790-1	
Date Analyzed:	08/02/23 09:58		08/02/23 11:50		08/02/23 13:11		08/02/23 12:47	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000915	U	0.0000915	U	0.0000915	U	0.00009	U



Form 3 Blanks

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : NIC1

Lab Number : L2343170
Project Number : 2230119

Parameter	Initial Calibration		Continuing Calibration				Preparation
	Blank		Blank(s)				Blank
Lab ID	R1729427-2		R1729427-4	R1729427-6	R1729427-8		
Date Analyzed:	08/13/23 14:54		08/13/23 16:06	08/13/23 17:47	08/13/23 18:50		
	mg/l	Q	mg/l	Q	mg/l	Q	Q
Mercury	0.0000915	U	0.0000915	U	0.0000915	U	



Form 3 Blanks

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Instrument ID : NIC1

Lab Number : L2343170
Project Number : 2230119

Parameter	Initial Calibration		Continuing Calibration				Preparation
	Blank		Blank(s)				Blank
Lab ID :			R1729427-10	R1729427-12	R1729427-14		
Date Analyzed:			08/13/23 19:43	08/13/23 20:23	08/13/23 21:29		
	mg/l	Q	mg/l	Q	mg/l	Q	Q
Mercury			0.0000915 U	0.0000915 U	0.0000915 U		



Form 3 Blanks

Client : LaBella Associates, P.C.
 Project Name : 42 YORK STREET
 Instrument ID : NIC1

Lab Number : L2343170
 Project Number : 2230119

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank
	mg/l	Q	mg/l	Q	mg/l	Q	Q
Lab ID :			R1729427-16		R1729427-18		
Date Analyzed:			08/13/23 22:23		08/13/23 23:08		
Mercury			0.0000915 U		0.0000915 U		



Form 5a Matrix Spike

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Client Sample ID : YS-MW-2023-01 072623
Lab Sample ID : L2343170-01
Matrix Spike : WG1809790-3
Matrix Spike Dup : WG1809790-4

Lab Number : L2343170
Project Number : 2230119
Matrix : WATER
MS Analysis Date : 08/02/23 12:57
MSD Analysis Date : 08/02/23 13:00

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Mercury, Total	ND	0.005	0.00469	94	0.005	0.00486	97	4	75-125	20



Form 5a Matrix Spike

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Client Sample ID : NA
Lab Sample ID : L2343197-01
Matrix Spike : WG1809790-5
Matrix Spike Dup : WG1809790-6

Lab Number : L2343170
Project Number : 2230119
Matrix : WATER
MS Analysis Date : 08/13/23 22:42
MSD Analysis Date : 08/13/23 22:45

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Mercury, Total	ND	0.005	0.00520	104	0.005	0.00500	100	4	75-125	20



Form 7

Laboratory Control Sample

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Client Sample ID : NA
Lab Sample ID : WG1809790-2
Dup Sample ID :

Lab Number : L2343170
Project Number : 2230119
Matrix : WATER
LCS Analysis Date : 08/02/23 12:50
LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Mercury, Total	0.00100	0.000950	96.					80-120	20



Form 12 Preparation Log

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Matrix : WATER

Lab Number : L2343170
Project Number : 2230119
Prep Method : EPA 7470A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2343170-01	07/31/23 18:10	-	25
WG1809790-1	07/31/23 18:10	-	25
WG1809790-2	07/31/23 18:10	-	25
WG1809790-3	07/31/23 18:10	-	25
WG1809790-4	07/31/23 18:10	-	25



Form 12 Preparation Log

Client : LaBella Associates, P.C.
Project Name : 42 YORK STREET
Matrix : WATER

Lab Number : L2343170
Project Number : 2230119
Prep Method : EPA 7470A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2343170-02	07/31/23 18:10	-	25
L2343170-03	07/31/23 18:10	-	25
WG1809790-5	07/31/23 18:10	-	25
WG1809790-6	07/31/23 18:10	-	25





Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

*Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.*



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 File: PM9836-1
 Page: 1

METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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 Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserv

*Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.*



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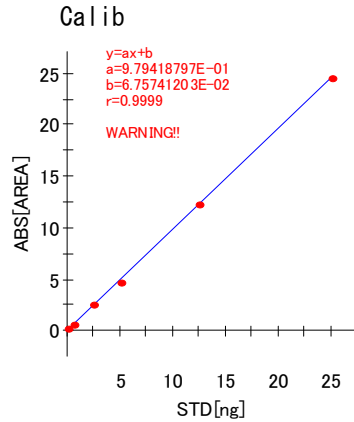
Title :
 Date : 08/02/2023
 Name :

Method

STD
 HONH3C1 : 0.0mL
 (1+1) H2SO4 : 0.0mL
 10w/v% SnCl2 : 0.3mL

SMP
 HONH3C1 : 0.0mL
 (1+1) H2SO4 : 0.0mL
 10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.1755	0.1102	-	08/02/2023 09:20	MJR,NIC3
2	0.200	2.500	2.500	2.500	0.500	0.6165	0.5605	12.1	08/02/2023 09:24	MJR,NIC3
3	1.000	2.500	2.500	2.500	2.500	2.5026	2.4862	0.6	08/02/2023 09:27	MJR,NIC3
4	2.000	2.500	2.500	2.500	5.000	4.8220	4.8543	2.9	08/02/2023 09:30	MJR,NIC3
5	5.000	2.500	2.500	2.500	12.500	12.2310	12.4190	0.6	08/02/2023 09:34	MJR,NIC3
6	10.000	2.500	2.500	2.500	25.000	24.6214	25.0698	0.3	08/02/2023 09:37	MJR,NIC3

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	XICV	2.500	2.500	2.500	6.6322	6.7026	2.681	-	08/02/2023 09:47	MJR,NIC3
2	ICV	2.500	2.500	2.500	7.2390	7.3221	2.929	-	08/02/2023 09:54	MJR,NIC3
3	ICB	2.500	2.500	2.500	0.1316	0.0654	0.026	-	08/02/2023 09:58	MJR,NIC3
4	0.2PPB	2.500	2.500	2.500	0.5858	0.5291	0.212	-	08/02/2023 10:01	MJR,NIC3
5	WG1808022-1 WG1808022	2.500	2.500	2.500	0.1808	0.1156	0.046	-	08/02/2023 11:15	MJR,NIC3
6	WG1808022-2 WG1808022	2.500	2.500	2.500	2.8588	2.8499	1.140	-	08/02/2023 11:18	MJR,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	I2342657-01 WG1808022	2.500	2.500	2.500	0.1808	0.1156	0.046	-	08/02/2023 11:22	MJR,NIC3
8	WG1808022-3 WG1808022	2.500	2.500	2.500	13.0471	13.2523	5.301	-	08/02/2023 11:25	MJR,NIC3
9	WG1808022-4 WG1808022	2.500	2.500	2.500	0.1451	0.0792	0.032	-	08/02/2023 11:28	MJR,NIC3
10	I2342827-01 WG1808022	2.500	2.500	2.500	0.1870	0.1219	0.049	-	08/02/2023 11:32	MJR,NIC3
11	I2342827-02 WG1808022	2.500	2.500	2.500	0.1744	0.1091	0.044	-	08/02/2023 11:35	MJR,NIC3
12	I2342827-03 WG1808022	2.500	2.500	2.500	0.1901	0.1251	0.050	-	08/02/2023 11:38	MJR,NIC3
13	I2342827-04 WG1808022	2.500	2.500	2.500	0.3613	0.2999	0.120	-	08/02/2023 11:42	MJR,NIC3
14	Check STD(5ug/L)	2.500	2.500	2.500	12.4871	12.6805	5.072	101.4	08/02/2023 11:45	MJR,NIC3
15	Check Blank	2.500	2.500	2.500	0.1256	0.0592	0.024	-	08/02/2023 11:50	MJR,NIC3
16	I2342827-05 WG1808022	2.500	2.500	2.500	0.3357	0.2738	0.110	-	08/02/2023 11:53	MJR,NIC3
17	I2342827-06 WG1808022	2.500	2.500	2.500	0.2450	0.1812	0.072	-	08/02/2023 11:56	MJR,NIC3
18	I2342827-07 WG1808022	2.500	2.500	2.500	0.2695	0.2062	0.082	-	08/02/2023 12:00	MJR,NIC3
19	I2342827-08 WG1808022	2.500	2.500	2.500	0.1889	0.1239	0.050	-	08/02/2023 12:03	MJR,NIC3
20	wg1809790-1 wg1809790	2.500	2.500	2.500	0.1624	0.0968	0.039	-	08/02/2023 12:47	MJR,NIC3
21	wg1809790-2 wg1809790	2.500	2.500	2.500	2.4115	2.3932	0.957	-	08/02/2023 12:50	MJR,NIC3
22	L2343170-01 wg1809790	2.500	2.500	2.500	0.1686	0.1031	0.041	-	08/02/2023 12:54	MJR,NIC3
23	wg1809790-3 wg1809790	2.500	2.500	2.500	11.5659	11.7399	4.696	-	08/02/2023 12:57	MJR,NIC3
24	wg1809790-4 wg1809790	2.500	2.500	2.500	11.9870	12.1699	4.868	-	08/02/2023 13:00	MJR,NIC3
25	L2343822-04 wg1809790	2.500	2.500	2.500	0.1963	0.1314	0.053	-	08/02/2023 13:03	MJR,NIC3
26	Check STD(5ug/L)	2.500	2.500	2.500	12.3820	12.5732	5.029	100.6	08/02/2023 13:07	MJR,NIC3
27	Check Blank	2.500	2.500	2.500	0.1292	0.0629	0.025	-	08/02/2023 13:11	MJR,NIC3
28	WG1809819-1 WG1809819	2.500	2.500	2.500	0.0248	-0.0437	-0.017	-	08/02/2023 13:14	MJR,NIC3
29	WG1809819-2 WG1809819	2.500	2.500	2.500	2.4375	2.4197	0.968	-	08/02/2023 13:17	MJR,NIC3
30	I2343139-01 WG1809819	2.500	2.500	2.500	0.0424	-0.0257	-0.010	-	08/02/2023 13:21	MJR,NIC3
31	WG1809819-3 WG1809819	2.500	2.500	2.500	12.6516	12.8485	5.139	-	08/02/2023 13:24	MJR,NIC3
32	WG1809819-4 WG1809819	2.500	2.500	2.500	0.0123	-0.0564	-0.023	-	08/02/2023 13:27	MJR,NIC3
33	I2343139-02 WG1809819	2.500	2.500	2.500	0.0194	-0.0492	-0.020	-	08/02/2023 13:31	MJR,NIC3
34	I2343140-21 WG1809819	2.500	2.500	2.500	0.0225	-0.0460	-0.018	-	08/02/2023 13:34	MJR,NIC3
35	I2343140-22 WG1809819	2.500	2.500	2.500	0.0317	-0.0366	-0.015	-	08/02/2023 13:37	MJR,NIC3
36	I2343140-23 WG1809819	2.500	2.500	2.500	0.0165	-0.0521	-0.021	-	08/02/2023 13:41	MJR,NIC3
37	I2343140-24 WG1809819	2.500	2.500	2.500	0.0156	-0.0531	-0.021	-	08/02/2023 13:44	MJR,NIC3
38	Check STD(5ug/L)	2.500	2.500	2.500	12.1127	12.2982	4.919	98.4	08/02/2023 13:47	MJR,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	Check Blank	2.500	2.500	2.500	0.1325	0.0663	0.027	-	08/02/2023 13:51	MJR,NIC3
40	WG1810822-1 WG1810822	2.500	2.500	2.500	0.0572	-0.0106	-0.004	-	08/02/2023 14:10	MJR,NIC3
41	WG1810822-2 WG1810822	2.500	2.500	2.500	2.4872	2.4705	0.988	-	08/02/2023 14:13	MJR,NIC3
42	L2343806-01 WG1810822	2.500	2.500	2.500	0.1214	0.0550	0.022	-	08/02/2023 14:16	MJR,NIC3
43	WG1810822-3 WG1810822	2.500	2.500	2.500	12.4371	12.6295	5.052	-	08/02/2023 14:20	MJR,NIC3
44	WG1810822-4 WG1810822	2.500	2.500	2.500	0.1488	0.0829	0.033	-	08/02/2023 14:23	MJR,NIC3
45	WG1810828-1 WG1810828	2.500	2.500	2.500	0.1443	0.0783	0.031	-	08/02/2023 14:26	MJR,NIC3
46	WG1810828-2 WG1810828	2.500	2.500	2.500	2.3517	2.3321	0.933	-	08/02/2023 14:29	MJR,NIC3
47	L2340013-02 WG1810828	2.500	2.500	2.500	18.1292	18.4412	7.376	-	08/02/2023 14:33	MJR,NIC3
48	XWG1810828-3 WG1810828	2.500	2.500	2.500	29.5285	30.0800	12.032	-	08/02/2023 14:36	MJR,NIC3
49	WG1810828-4 WG1810828	2.500	2.500	2.500	18.1392	18.4514	7.381	-	08/02/2023 14:39	MJR,NIC3
50	Check STD(5ug/L)	2.500	2.500	2.500	12.5303	12.7246	5.090	101.8	08/02/2023 14:43	MJR,NIC3
51	Check Blank	2.500	2.500	2.500	0.1288	0.0625	0.025	-	08/02/2023 14:46	MJR,NIC3
52	XL2343000-02 WG1808536	2.500	2.500	2.500	H.CONC	H.CONC	H.CONC	-	08/02/2023 14:50	MJR,NIC3
53	XL2343000-03 WG1808536	2.500	2.500	2.500	H.CONC	H.CONC	H.CONC	-	08/02/2023 14:56	MJR,NIC3
54	XL2343000-02D10 WG1808536	2.500	2.500	2.500	55.8825	56.9878	22.795	-	08/02/2023 15:19	TAA,NIC3
55	XL2343000-03D10 WG1808536	2.500	2.500	2.500	H.CONC	H.CONC	H.CONC	-	08/02/2023 15:23	TAA,NIC3
56	L2343000-03D100 WG1808536	2.500	2.500	2.500	15.8797	16.1444	6.458	-	08/02/2023 15:33	TAA,NIC3
57	L2343000-02D100 WG1808536	2.500	2.500	2.500	7.5511	7.6408	3.056	-	08/02/2023 15:36	TAA,NIC3
58	WG1810402-1 WG1810402	2.500	2.500	2.500	0.1577	0.0920	0.037	-	08/02/2023 15:44	TAA,NIC3
59	WG1810402-2 WG1810402	2.500	2.500	2.500	2.2160	2.1936	0.877	-	08/02/2023 15:47	TAA,NIC3
60	L2342308-17 WG1810402	2.500	2.500	2.500	0.1328	0.0666	0.027	-	08/02/2023 15:50	TAA,NIC3
61	WG1810402-3 WG1810402	2.500	2.500	2.500	11.5704	11.7445	4.698	-	08/02/2023 15:54	TAA,NIC3
62	Check STD(5ug/L)	2.500	2.500	2.500	12.2519	12.4404	4.976	99.5	08/02/2023 15:57	TAA,NIC3
63	Check Blank	2.500	2.500	2.500	0.1359	0.0698	0.028	-	08/02/2023 16:01	TAA,NIC3
64	WG1810402-4 WG1810402	2.500	2.500	2.500	0.0990	0.0321	0.013	-	08/02/2023 16:04	TAA,NIC3
65	L2342308-18 WG1810402	2.500	2.500	2.500	0.0635	-0.0042	-0.002	-	08/02/2023 16:08	TAA,NIC3
66	L2342308-19 WG1810402	2.500	2.500	2.500	0.0201	-0.0485	-0.019	-	08/02/2023 16:11	TAA,NIC3
67	L2342308-20 WG1810402	2.500	2.500	2.500	0.0585	-0.0093	-0.004	-	08/02/2023 16:14	TAA,NIC3
68	L2342308-21 WG1810402	2.500	2.500	2.500	0.1732	0.1078	0.043	-	08/02/2023 16:17	TAA,NIC3
69	WG1810828-3D2 WG1810828	2.500	2.500	2.500	14.6054	14.8433	5.937	-	08/02/2023 16:57	TAA,NIC3
70	Check STD(5ug/L)	2.500	2.500	2.500	12.1932	12.3804	4.952	99.0	08/02/2023 17:01	TAA,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	Check Blank	2.500	2.500	2.500	0.1234	0.0570	0.023	-	08/02/2023 17:04	TAA,NIC3
72	WG1810671-1 WG1810671	2.500	2.500	2.500	0.2112	0.1466	0.059	-	08/02/2023 17:30	TAA,NIC3
73	WG1810671-2 WG1810671	2.500	2.500	2.500	2.4688	2.4517	0.981	-	08/02/2023 17:33	TAA,NIC3
74	Check STD(5ug/L)	2.500	2.500	2.500	12.3399	12.5302	5.012	100.2	08/02/2023 17:36	TAA,NIC3
75	Check Blank	2.500	2.500	2.500	0.1230	0.0566	0.023	-	08/02/2023 17:48	TAA,NIC3
76	I2344049-01 WG1810671	2.500	2.500	2.500	0.1846	0.1195	0.048	-	08/02/2023 17:51	TAA,NIC3
77	WG1810671-3 WG1810671	2.500	2.500	2.500	11.8611	12.0414	4.817	-	08/02/2023 17:55	TAA,NIC3
78	WG1810671-4 WG1810671	2.500	2.500	2.500	0.1932	0.1283	0.051	-	08/02/2023 17:58	TAA,NIC3
79	L2338092-01 WG1810671	2.500	2.500	2.500	11.4493	11.6209	4.648	-	08/02/2023 18:01	TAA,NIC3
80	I2343865-01 WG1810671	2.500	2.500	2.500	0.3436	0.2818	0.113	-	08/02/2023 18:05	TAA,NIC3
81	Check STD(5ug/L)	2.500	2.500	2.500	11.0998	11.2641	4.506	90.1	08/02/2023 18:57	TAA,NIC3
82	Check Blank	2.500	2.500	2.500	0.1213	0.0549	0.022	-	08/02/2023 19:01	TAA,NIC3
83	WG1804248-1 WG1804248	2.500	2.500	2.500	0.0040	-0.0649	-0.026	-	08/02/2023 19:05	TAA,NIC3
84	WG1804248-2 WG1804248	2.500	2.500	2.500	2.3482	2.3286	0.931	-	08/02/2023 19:08	TAA,NIC3
85	L2339423-05 WG1804248	2.500	2.500	2.500	0.0111	-0.0577	-0.023	-	08/02/2023 19:11	TAA,NIC3
86	Check STD(5ug/L)	2.500	2.500	2.500	12.2542	12.4427	4.977	99.5	08/02/2023 19:15	TAA,NIC3
87	Check Blank	2.500	2.500	2.500	0.1237	0.0573	0.023	-	08/02/2023 19:18	TAA,NIC3
88	WG1804248-3 WG1804248	2.500	2.500	2.500	11.4415	11.6129	4.645	-	08/02/2023 19:22	TAA,NIC3
89	WG1804248-4 WG1804248	2.500	2.500	2.500	0.0218	-0.0467	-0.019	-	08/02/2023 19:25	TAA,NIC3
90	L2339994-01 WG1804248	2.500	2.500	2.500	0.6449	0.5895	0.236	-	08/02/2023 19:28	TAA,NIC3
91	L2339996-01 WG1804248	2.500	2.500	2.500	2.6860	2.6734	1.069	-	08/02/2023 19:32	TAA,NIC3
92	L2339998-01 WG1804248	2.500	2.500	2.500	1.0333	0.9860	0.394	-	08/02/2023 19:35	TAA,NIC3
93	L2340027-01 WG1804248	2.500	2.500	2.500	5.6013	5.6500	2.260	-	08/02/2023 19:39	TAA,NIC3
94	L2338988-23 WG1801403	2.500	2.500	2.500	0.0112	-0.0576	-0.023	-	08/02/2023 19:42	TAA,NIC3
95	L2338988-24 WG1801403	2.500	2.500	2.500	0.0047	-0.0642	-0.026	-	08/02/2023 19:46	TAA,NIC3
96	L2338988-26 WG1801403	2.500	2.500	2.500	0.0035	-0.0654	-0.026	-	08/02/2023 19:49	TAA,NIC3
97	L2338988-27 WG1801403	2.500	2.500	2.500	0.0077	-0.0611	-0.024	-	08/02/2023 19:52	TAA,NIC3
98	Check STD(5ug/L)	2.500	2.500	2.500	11.7811	11.9597	4.784	95.7	08/02/2023 19:56	TAA,NIC3
99	Check Blank	2.500	2.500	2.500	0.1672	0.1017	0.041	-	08/02/2023 20:00	TAA,NIC3
100	L2338988-28 WG1801403	2.500	2.500	2.500	0.0078	-0.0610	-0.024	-	08/02/2023 20:03	TAA,NIC3
101	L2338988-29 WG1801403	2.500	2.500	2.500	0.0071	-0.0617	-0.025	-	08/02/2023 20:06	TAA,NIC3
102	L2338988-30 WG1801403	2.500	2.500	2.500	0.0089	-0.0599	-0.024	-	08/02/2023 20:10	TAA,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	L2338988-31 WG1801403	2.500	2.500	2.500	0.0095	-0.0593	-0.024	-	08/02/2023 20:13	TAA,NIC3
104	wg1801388-1 wg1801388	2.500	2.500	2.500	0.0056	-0.0633	-0.025	-	08/02/2023 20:28	TAA,NIC3
105	wg1801388-2 wg1801388	2.500	2.500	2.500	2.4491	2.4316	0.973	-	08/02/2023 20:32	TAA,NIC3
106	wg1801388-3 wg1801388	2.500	2.500	2.500	2.5044	2.4880	0.995	-	08/02/2023 20:35	TAA,NIC3
107	L2338253-11 wg1801388	2.500	2.500	2.500	0.0136	-0.0551	-0.022	-	08/02/2023 20:38	TAA,NIC3
108	L2338253-12 wg1801388	2.500	2.500	2.500	0.0171	-0.0515	-0.021	-	08/02/2023 20:42	TAA,NIC3
109	L2338253-13 wg1801388	2.500	2.500	2.500	0.0171	-0.0515	-0.021	-	08/02/2023 20:45	TAA,NIC3
110	Check STD(5ug/L)	2.500	2.500	2.500	12.1634	12.3500	4.940	98.8	08/02/2023 20:48	TAA,NIC3
111	Check Blank	2.500	2.500	2.500	0.1711	0.1057	0.042	-	08/02/2023 20:57	TAA,NIC3
112	L2338253-14 wg1801388	2.500	2.500	2.500	0.0219	-0.0466	-0.019	-	08/02/2023 21:00	TAA,NIC3
113	WG1806771-1 WG1806771	2.500	2.500	2.500	0.0181	-0.0505	-0.020	-	08/02/2023 21:04	TAA,NIC3
114	WG1806771-2 WG1806771	2.500	2.500	2.500	2.3300	2.3100	0.924	-	08/02/2023 21:07	TAA,NIC3
115	I2338629-01 WG1806771	2.500	2.500	2.500	0.0297	-0.0387	-0.015	-	08/02/2023 21:10	TAA,NIC3
116	WG1806771-3 WG1806771	2.500	2.500	2.500	12.2060	12.3935	4.957	-	08/02/2023 21:14	TAA,NIC3
117	WG1806771-4 WG1806771	2.500	2.500	2.500	0.0311	-0.0372	-0.015	-	08/02/2023 21:17	TAA,NIC3
118	I2343361-01 WG1809022	2.500	2.500	2.500	0.0384	-0.0298	-0.012	-	08/02/2023 22:18	TAA,NIC3
119	I2343361-02 WG1809022	2.500	2.500	2.500	0.0352	-0.0331	-0.013	-	08/02/2023 22:21	TAA,NIC3
120	I2343480-01 WG1809022	2.500	2.500	2.500	0.5263	0.4684	0.187	-	08/02/2023 22:25	TAA,NIC3
121	WG1809857-1 WG1809857	2.500	2.500	2.500	0.0486	-0.0194	-0.008	-	08/02/2023 22:28	TAA,NIC3
122	XCheck STD(5ug/L)	2.500	2.500	2.500	10.3482	10.4967	4.199	-	08/02/2023 22:31	TAA,NIC3
123	Check STD(5ug/L)	2.500	2.500	2.500	12.0439	12.2280	4.891	97.8	08/02/2023 22:46	TAA,NIC3
124	Check Blank	2.500	2.500	2.500	0.1780	0.1127	0.045	-	08/02/2023 22:49	TAA,NIC3
125	WG1809857-2 WG1809857	2.500	2.500	2.500	2.1214	2.0970	0.839	-	08/02/2023 22:52	TAA,NIC3
126	L2342679-01 WG1809857	2.500	2.500	2.500	0.0516	-0.0163	-0.007	-	08/02/2023 22:56	TAA,NIC3
127	WG1809857-3 WG1809857	2.500	2.500	2.500	10.9641	11.1255	4.450	-	08/02/2023 22:59	TAA,NIC3
128	WG1809857-4 WG1809857	2.500	2.500	2.500	0.0272	-0.0412	-0.016	-	08/02/2023 23:02	TAA,NIC3
129	L2342679-02 WG1809857	2.500	2.500	2.500	0.0246	-0.0439	-0.018	-	08/02/2023 23:06	TAA,NIC3
130	Check STD(5ug/L)	2.500	2.500	2.500	12.0629	12.2474	4.899	98.0	08/02/2023 23:34	TAA,NIC3
131	Check Blank	2.500	2.500	2.500	0.1801	0.1149	0.046	-	08/02/2023 23:37	TAA,NIC3

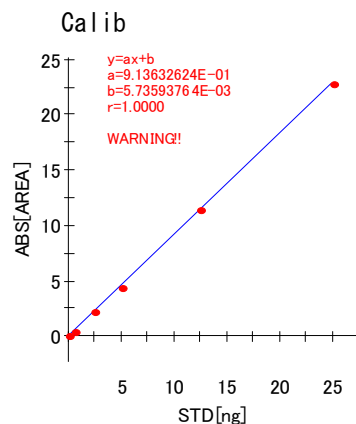
Title :
 Date : 8/13/2023
 Name :

Method

STD
 HONH3Cl : 0.0mL
 (1+1) H2SO4 : 0.0mL
 10w/v% SnCl2 : 0.3mL

SMP
 HONH3Cl : 0.0mL
 (1+1) H2SO4 : 0.0mL
 10w/v% SnCl2 : 0.3mL

Measurement Time (sec) : 120sec



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.0483	0.0466	-	08/13/2023 14:23	TAA,NIC1
2	0.200	2.500	2.500	2.500	0.500	0.4793	0.5183	3.7	08/13/2023 14:26	TAA,NIC1
3	1.000	2.500	2.500	2.500	2.500	2.3088	2.5208	0.8	08/13/2023 14:29	TAA,NIC1
4	2.000	2.500	2.500	2.500	5.000	4.4286	4.8410	3.2	08/13/2023 14:33	TAA,NIC1
5	5.000	2.500	2.500	2.500	12.500	11.5065	12.5880	0.7	08/13/2023 14:36	TAA,NIC1
6	10.000	2.500	2.500	2.500	25.000	22.8332	24.9854	0.1	08/13/2023 14:39	TAA,NIC1

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	7.1948	7.8687	3.147	-	08/13/2023 14:44	TAA,NIC1
2	ICB	2.500	2.500	2.500	0.0471	0.0453	0.018	-	08/13/2023 14:54	TAA,NIC1
3	0.2 PPB	2.500	2.500	2.500	0.4837	0.5231	0.209	-	08/13/2023 14:58	TAA,NIC1
4	wg1814941-1 wg1814941	2.500	2.500	2.500	0.0141	0.0092	0.004	-	08/13/2023 15:31	TAA,NIC1
5	wg1814941-2 wg1814941	2.500	2.500	2.500	2.2654	2.4733	0.989	-	08/13/2023 15:35	TAA,NIC1
6	L2342012-10 wg1814941	2.500	2.500	2.500	0.0147	0.0098	0.004	-	08/13/2023 15:38	TAA,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	wg1814941-3 wg1814941	2.500	2.500	2.500	11.1094	12.1533	4.861	-	08/13/2023 15:41	TAA,NIC1
8	wg1814941-4 wg1814941	2.500	2.500	2.500	0.0186	0.0141	0.006	-	08/13/2023 15:45	TAA,NIC1
9	I2342674-01 WG1808299	2.500	2.500	2.500	0.0728	0.0734	0.029	-	08/13/2023 15:49	TAA,NIC1
10	I2342674-03 WG1808299	2.500	2.500	2.500	0.0666	0.0666	0.027	-	08/13/2023 15:52	TAA,NIC1
11	I2342674-04 WG1808299	2.500	2.500	2.500	0.0684	0.0686	0.027	-	08/13/2023 15:56	TAA,NIC1
12	I2342674-05 WG1808299	2.500	2.500	2.500	0.0750	0.0758	0.030	-	08/13/2023 15:59	TAA,NIC1
13	Check STD(5ug/L)	2.500	2.500	2.500	11.5528	12.6386	5.055	101.1	08/13/2023 16:02	TAA,NIC1
14	Check Blank	2.500	2.500	2.500	0.0432	0.0410	0.016	-	08/13/2023 16:06	TAA,NIC1
15	I2342674-06 WG1808299	2.500	2.500	2.500	0.1040	0.1076	0.043	-	08/13/2023 16:10	TAA,NIC1
16	I2342674-07 WG1808299	2.500	2.500	2.500	0.0794	0.0806	0.032	-	08/13/2023 16:13	TAA,NIC1
17	L2342864-03 WG1807995	2.500	2.500	2.500	0.0258	0.0220	0.009	-	08/13/2023 16:33	TAA,NIC1
18	L2342864-04 WG1807995	2.500	2.500	2.500	0.1269	0.1326	0.053	-	08/13/2023 16:36	TAA,NIC1
19	L2342864-05 WG1807995	2.500	2.500	2.500	0.0174	0.0128	0.005	-	08/13/2023 16:39	TAA,NIC1
20	L2342864-06 WG1807995	2.500	2.500	2.500	0.0247	0.0208	0.008	-	08/13/2023 16:42	TAA,NIC1
21	L2342864-07 WG1807995	2.500	2.500	2.500	0.0246	0.0206	0.008	-	08/13/2023 16:46	TAA,NIC1
22	L2342864-08 WG1807995	2.500	2.500	2.500	0.0270	0.0233	0.009	-	08/13/2023 16:49	TAA,NIC1
23	L2342864-09 WG1807995	2.500	2.500	2.500	0.0213	0.0170	0.007	-	08/13/2023 16:52	TAA,NIC1
24	L2342839-01 WG1808536	2.500	2.500	2.500	0.0274	0.0237	0.009	-	08/13/2023 17:35	TAA,NIC1
25	XCheck STD(5ug/L)	2.500	2.500	2.500	9.2934	10.1656	4.066	-	08/13/2023 17:38	TAA,NIC1
26	Check STD(5ug/L)	2.500	2.500	2.500	11.7809	12.8883	5.155	103.1	08/13/2023 17:43	TAA,NIC1
27	Check Blank	2.500	2.500	2.500	0.0611	0.0606	0.024	-	08/13/2023 17:47	TAA,NIC1
28	L2342839-02 WG1808536	2.500	2.500	2.500	0.0264	0.0226	0.009	-	08/13/2023 17:50	TAA,NIC1
29	L2342839-03 WG1808536	2.500	2.500	2.500	0.1213	0.1265	0.051	-	08/13/2023 17:53	TAA,NIC1
30	L2342839-04 WG1808536	2.500	2.500	2.500	0.0302	0.0268	0.011	-	08/13/2023 17:57	TAA,NIC1
31	L2342839-05 WG1808536	2.500	2.500	2.500	0.0758	0.0767	0.031	-	08/13/2023 18:00	TAA,NIC1
32	L2342839-06 WG1808536	2.500	2.500	2.500	0.0279	0.0243	0.010	-	08/13/2023 18:03	TAA,NIC1
33	WG1808458-1 WG1808458	2.500	2.500	2.500	0.1018	0.1051	0.042	-	08/13/2023 18:28	TAA,NIC1
34	WG1808458-2 WG1808458	2.500	2.500	2.500	2.4682	2.6952	1.078	-	08/13/2023 18:31	TAA,NIC1
35	WG1808458-3 WG1808458	2.500	2.500	2.500	2.6369	2.8799	1.152	-	08/13/2023 18:35	TAA,NIC1
36	L2342665-01 WG1808458	2.500	2.500	2.500	0.2486	0.2658	0.106	-	08/13/2023 18:38	TAA,NIC1
37	L2342665-02 WG1808458	2.500	2.500	2.500	0.2313	0.2469	0.099	-	08/13/2023 18:41	TAA,NIC1
38	Check STD(5ug/L)	2.500	2.500	2.500	11.7881	12.8962	5.158	103.2	08/13/2023 18:45	TAA,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	Check Blank	2.500	2.500	2.500	0.0502	0.0487	0.019	-	08/13/2023 18:50	TAA,NIC1
40	L2343114-02 WG1808458	2.500	2.500	2.500	0.1894	0.2010	0.080	-	08/13/2023 18:53	TAA,NIC1
41	L2343114-03 WG1808458	2.500	2.500	2.500	0.1982	0.2107	0.084	-	08/13/2023 18:57	TAA,NIC1
42	L2343114-04 WG1808458	2.500	2.500	2.500	0.1952	0.2074	0.083	-	08/13/2023 19:00	TAA,NIC1
43	WG1808989-1 WG1808989	2.500	2.500	2.500	0.0267	0.0229	0.009	-	08/13/2023 19:17	TAA,NIC1
44	WG1808989-2 WG1808989	2.500	2.500	2.500	2.4162	2.6383	1.055	-	08/13/2023 19:20	TAA,NIC1
45	L2343024-02 WG1808989	2.500	2.500	2.500	0.0288	0.0252	0.010	-	08/13/2023 19:23	TAA,NIC1
46	WG1808989-3 WG1808989	2.500	2.500	2.500	12.8724	14.0830	5.633	-	08/13/2023 19:27	TAA,NIC1
47	WG1808989-4 WG1808989	2.500	2.500	2.500	0.0286	0.0250	0.010	-	08/13/2023 19:30	TAA,NIC1
48	L2343024-01 WG1808989	2.500	2.500	2.500	0.0921	0.0945	0.038	-	08/13/2023 19:33	TAA,NIC1
49	L2343024-03 WG1808989	2.500	2.500	2.500	0.1416	0.1487	0.059	-	08/13/2023 19:36	TAA,NIC1
50	Check STD(5ug/L)	2.500	2.500	2.500	11.6650	12.7614	5.105	102.1	08/13/2023 19:40	TAA,NIC1
51	Check Blank	2.500	2.500	2.500	0.0546	0.0535	0.021	-	08/13/2023 19:43	TAA,NIC1
52	L2343024-04 WG1808989	2.500	2.500	2.500	0.0311	0.0278	0.011	-	08/13/2023 19:47	TAA,NIC1
53	L2343145-02 WG1808989	2.500	2.500	2.500	0.0316	0.0283	0.011	-	08/13/2023 19:50	TAA,NIC1
54	L2343145-06 WG1808989	2.500	2.500	2.500	0.0277	0.0240	0.010	-	08/13/2023 19:53	TAA,NIC1
55	L2343145-07 WG1808989	2.500	2.500	2.500	0.0272	0.0235	0.009	-	08/13/2023 19:57	TAA,NIC1
56	L2343145-08 WG1808989	2.500	2.500	2.500	0.0353	0.0324	0.013	-	08/13/2023 20:00	TAA,NIC1
57	WG1809080-1 WG1809080	2.500	2.500	2.500	0.0996	0.1027	0.041	-	08/13/2023 20:03	TAA,NIC1
58	WG1809080-2 WG1809080	2.500	2.500	2.500	2.0709	2.2604	0.904	-	08/13/2023 20:06	TAA,NIC1
59	L2343106-02 WG1809080	2.500	2.500	2.500	0.0786	0.0798	0.032	-	08/13/2023 20:10	TAA,NIC1
60	L2343106-04 WG1809080	2.500	2.500	2.500	0.0997	0.1028	0.041	-	08/13/2023 20:13	TAA,NIC1
61	L2343106-06 WG1809080	2.500	2.500	2.500	0.0731	0.0737	0.029	-	08/13/2023 20:16	TAA,NIC1
62	Check STD(5ug/L)	2.500	2.500	2.500	11.8025	12.9119	5.165	103.3	08/13/2023 20:20	TAA,NIC1
63	Check Blank	2.500	2.500	2.500	0.0574	0.0565	0.023	-	08/13/2023 20:23	TAA,NIC1
64	L2343106-08 WG1809080	2.500	2.500	2.500	0.0499	0.0483	0.019	-	08/13/2023 20:26	TAA,NIC1
65	L2343411-02 WG1809080	2.500	2.500	2.500	0.0365	0.0337	0.013	-	08/13/2023 20:29	TAA,NIC1
66	L2343411-04 WG1809080	2.500	2.500	2.500	0.0299	0.0264	0.011	-	08/13/2023 20:33	TAA,NIC1
67	L2343411-06 WG1809080	2.500	2.500	2.500	0.0326	0.0294	0.012	-	08/13/2023 20:36	TAA,NIC1
68	L2343411-11 WG1809080	2.500	2.500	2.500	0.0398	0.0373	0.015	-	08/13/2023 20:39	TAA,NIC1
69	WG1809015-1 WG1809015	2.500	2.500	2.500	0.0873	0.0893	0.036	-	08/13/2023 21:09	TAA,NIC1
70	WG1809015-2 WG1809015	2.500	2.500	2.500	1.8821	2.0537	0.821	-	08/13/2023 21:12	TAA,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	L2343024-01 WG1809015	2.500	2.500	2.500	0.1434	0.1507	0.060	-	08/13/2023 21:15	TAA,NIC1
72	WG1809015-3 WG1809015	2.500	2.500	2.500	10.5405	11.5306	4.612	-	08/13/2023 21:19	TAA,NIC1
73	WG1809015-4 WG1809015	2.500	2.500	2.500	0.1273	0.1331	0.053	-	08/13/2023 21:22	TAA,NIC1
74	Check STD(5ug/L)	2.500	2.500	2.500	11.5977	12.6878	5.075	101.5	08/13/2023 21:25	TAA,NIC1
75	Check Blank	2.500	2.500	2.500	0.0592	0.0585	0.023	-	08/13/2023 21:29	TAA,NIC1
76	L2343024-02 WG1809015	2.500	2.500	2.500	0.1115	0.1158	0.046	-	08/13/2023 21:32	TAA,NIC1
77	L2343024-03 WG1809015	2.500	2.500	2.500	0.1729	0.1830	0.073	-	08/13/2023 21:35	TAA,NIC1
78	L2343024-04 WG1809015	2.500	2.500	2.500	0.0961	0.0989	0.040	-	08/13/2023 21:39	TAA,NIC1
79	WG1811436-1 WG1811436	2.500	2.500	2.500	0.3177	0.3415	0.137	-	08/13/2023 21:57	TAA,NIC1
80	WG1811436-2 WG1811436	2.500	2.500	2.500	2.6124	2.8531	1.141	-	08/13/2023 22:00	TAA,NIC1
81	I2344543-02 WG1811436	2.500	2.500	2.500	0.3808	0.4105	0.164	-	08/13/2023 22:03	TAA,NIC1
82	WG1811436-3 WG1811436	2.500	2.500	2.500	11.7789	12.8861	5.154	-	08/13/2023 22:06	TAA,NIC1
83	WG1811436-4 WG1811436	2.500	2.500	2.500	0.3179	0.3417	0.137	-	08/13/2023 22:10	TAA,NIC1
84	I2344627-52 WG1811436	2.500	2.500	2.500	0.0181	0.0135	0.005	-	08/13/2023 22:13	TAA,NIC1
85	I2344627-53 WG1811436	2.500	2.500	2.500	0.0234	0.0193	0.008	-	08/13/2023 22:16	TAA,NIC1
86	Check STD(5ug/L)	2.500	2.500	2.500	11.7740	12.8807	5.152	103.0	08/13/2023 22:20	TAA,NIC1
87	Check Blank	2.500	2.500	2.500	0.0581	0.0573	0.023	-	08/13/2023 22:23	TAA,NIC1
88	L2342939-02 WG1808669	2.500	2.500	2.500	0.4013	0.4330	0.173	-	08/13/2023 22:32	TAA,NIC1
89	L2343302-01 WG1808669	2.500	2.500	2.500	0.2096	0.2231	0.089	-	08/13/2023 22:35	TAA,NIC1
90	L2343197-01 wg1809790	2.500	2.500	2.500	0.1852	0.1964	0.079	-	08/13/2023 22:38	TAA,NIC1
91	wg1809790-5 wg1809790	2.500	2.500	2.500	11.8827	12.9997	5.200	-	08/13/2023 22:42	TAA,NIC1
92	wg1809790-6 wg1809790	2.500	2.500	2.500	11.4328	12.5073	5.003	-	08/13/2023 22:45	TAA,NIC1
93	L2343170-02 wg1809790	2.500	2.500	2.500	0.1872	0.1986	0.079	-	08/13/2023 22:48	TAA,NIC1
94	L2343170-03 wg1809790	2.500	2.500	2.500	0.2021	0.2149	0.086	-	08/13/2023 22:52	TAA,NIC1
95	L2343197-03 wg1809790	2.500	2.500	2.500	0.1967	0.2090	0.084	-	08/13/2023 22:55	TAA,NIC1
96	L2343325-01 wg1809790	2.500	2.500	2.500	0.1858	0.1971	0.079	-	08/13/2023 22:58	TAA,NIC1
97	L2343339-01 wg1809790	2.500	2.500	2.500	0.1433	0.1506	0.060	-	08/13/2023 23:01	TAA,NIC1
98	Check STD(5ug/L)	2.500	2.500	2.500	11.7875	12.8955	5.158	103.2	08/13/2023 23:05	TAA,NIC1
99	Check Blank	2.500	2.500	2.500	0.0597	0.0591	0.024	-	08/13/2023 23:08	TAA,NIC1
100	L2343339-02 wg1809790	2.500	2.500	2.500	0.2185	0.2329	0.093	-	08/13/2023 23:11	TAA,NIC1
101	L2343339-03 wg1809790	2.500	2.500	2.500	0.1762	0.1866	0.075	-	08/13/2023 23:15	TAA,NIC1
102	Check STD(5ug/L)	2.500	2.500	2.500	11.8025	12.9119	5.165	103.3	08/13/2023 23:18	TAA,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	Check Blank	2.500	2.500	2.500	0.0599	0.0593	0.024	-	08/13/2023 23:21	TAA,NIC1

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No.: D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.

Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck




ISO/IEC GUIDE 34:2009

ISO/IEC 17025:2005





A Waters Company

Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No.: D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
		mg/kg	mg/kg	%		%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.

Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck





A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No.: D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value ⁷	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

Certified Reference Material

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Reference Value ⁷	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

▪ Certificate of Analysis ▪

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number ⁶	Recovery
		mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.
2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:

$$U_{\text{expanded}} = k * \text{SQRT}((U_{\text{char}})^2 + (U_{\text{homogen}})^2 + (U_{\text{LTS}})^2 + (U_{\text{STS}})^2 + (U_{\text{RSS}})^2)$$

Where:

 - U_{expanded} = Expanded uncertainty.
 - k = Coverage factor.
 - U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
 - U_{homogen} = Standard uncertainty of the homogeneity assessment.
 - U_{LTS} = Standard uncertainty associated with long-term stability.
 - U_{STS} = Standard uncertainty associated with short-term (transport) stability.
 - U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).
3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.
4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.
5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.
6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%) = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100**
 The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.
7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.
8. **Metrological Traceability.** This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.
9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck







A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION



Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

Certified Reference Material

▪ Certificate of Analysis ▪

Parameter	Certified Value¹	Reference Value	Uncertainty²	QC Performance Acceptance Limits³	PT Performance Acceptance Limits⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384



Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations

C = Sample/Standard Concentration, $\mu\text{g/L}$

k1 = y-intercept

k2 = slope

The instrument will plot peak height against concentration ($\mu\text{g/L}$). The result is generated in $\mu\text{g/L}$. This value is divided by 1000 to convert the units to mg/L . If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = (\text{concentration, } \mu\text{g/L}) \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})$$





Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations

C = Sample/Standard Concentration, $\mu\text{g/L}$

k1 = y-intercept

k2 = slope

The instrument will plot peak height against concentration ($\mu\text{g/L}$). The result is generated in $\mu\text{g/L}$. This value is divided by 1000 to convert the units to mg/L . If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = (\text{concentration, } \mu\text{g/L}) \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})$$

The result in mg/kg is calculated on a dry weight basis using the sample weight digested (Wt), the final volume of the digestate (FV), and the percent total solids (%TS).

$$\text{Result, mg/kg, wet} = ((\text{result, mg/L}) \times (\text{FV})) / \text{Wt}$$

$$\text{Result, mg/kg, dry wt} = (\text{Result, mg/kg wet}) / (\% \text{TS})$$

No.	Sample No	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	XICV
2	7	ICV
3	8	ICB
4	9	0.2PPB
5	10	WG1808022-1 WG1808022
6	11	WG1808022-2 WG1808022
7	12	I2342657-01 WG1808022
8	13	WG1808022-3 WG1808022
9	14	WG1808022-4 WG1808022
10	15	I2342827-01 WG1808022
11	16	I2342827-02 WG1808022
12	17	I2342827-03 WG1808022
13	18	I2342827-04 WG1808022
14	19	Check STD(5ug/L)
15	20	Check Blank
16	21	I2342827-05 WG1808022
17	22	I2342827-06 WG1808022
18	23	I2342827-07 WG1808022
19	24	I2342827-08 WG1808022
20	25	wg1809790-1 wg1809790
21	26	wg1809790-2 wg1809790
22	27	L2343170-01 wg1809790
23	28	wg1809790-3 wg1809790
24	29	wg1809790-4 wg1809790
25	30	L2343822-04 wg1809790
26	31	Check STD(5ug/L)
27	32	Check Blank
28	33	WG1809819-1 WG1809819
29	34	WG1809819-2 WG1809819
30	35	I2343139-01 WG1809819
31	36	WG1809819-3 WG1809819
32	37	WG1809819-4 WG1809819
33	38	I2343139-02 WG1809819
34	39	I2343140-21 WG1809819
35	40	I2343140-22 WG1809819
36	41	I2343140-23 WG1809819
37	42	I2343140-24 WG1809819
38	43	Check STD(5ug/L)
39	44	Check Blank
40	45	WG1810822-1 WG1810822

41 46 WG1810822-2 WG1810822
42 47 L2343806-01 WG1810822
43 48 WG1810822-3 WG1810822
44 49 WG1810822-4 WG1810822
45 50 WG1810828-1 WG1810828
46 51 WG1810828-2 WG1810828
47 52 L2340013-02 WG1810828
48 53 XWG1810828-3 WG1810828
49 54 WG1810828-4 WG1810828
50 55 Check STD(5ug/L)
51 56 Check Blank
52 57 XL2343000-02 WG1808536
53 58 XL2343000-03 WG1808536
54 59 XL2343000-02D10 WG1808536
55 60 XL2343000-03D10 WG1808536
56 61 L2343000-03D100 WG1808536
57 62 L2343000-02D100 WG1808536
58 63 WG1810402-1 WG1810402
59 64 WG1810402-2 WG1810402
60 65 L2342308-17 WG1810402
61 66 WG1810402-3 WG1810402
62 67 Check STD(5ug/L)
63 68 Check Blank
64 69 WG1810402-4 WG1810402
65 70 L2342308-18 WG1810402
66 71 L2342308-19 WG1810402
67 72 L2342308-20 WG1810402
68 73 L2342308-21 WG1810402
69 74 WG1810828-3D2 WG1810828
70 75 Check STD(5ug/L)
71 76 Check Blank
72 77 WG1810671-1 WG1810671
73 78 WG1810671-2 WG1810671
74 79 Check STD(5ug/L)
75 80 Check Blank
76 1 I2344049-01 WG1810671
77 2 WG1810671-3 WG1810671
78 3 WG1810671-4 WG1810671
79 4 L2338092-01 WG1810671
80 5 I2343865-01 WG1810671
81 6 Check STD(5ug/L)
82 7 Check Blank
83 8 WG1804248-1 WG1804248
84 9 WG1804248-2 WG1804248
85 10 L2339423-05 WG1804248
86 11 Check STD(5ug/L)
87 12 Check Blank

88 13 WG1804248-3 WG1804248
89 14 WG1804248-4 WG1804248
90 15 L2339994-01 WG1804248
91 16 L2339996-01 WG1804248
92 17 L2339998-01 WG1804248
93 18 L2340027-01 WG1804248
94 19 L2338988-23 WG1801403
95 20 L2338988-24 WG1801403
96 21 L2338988-26 WG1801403
97 22 L2338988-27 WG1801403
98 23 Check STD(5ug/L)
99 24 Check Blank
100 25 L2338988-28 WG1801403
101 26 L2338988-29 WG1801403
102 27 L2338988-30 WG1801403
103 28 L2338988-31 WG1801403
104 29 wg1801388-1 wg1801388
105 30 wg1801388-2 wg1801388
106 31 wg1801388-3 wg1801388
107 32 L2338253-11 wg1801388
108 33 L2338253-12 wg1801388
109 34 L2338253-13 wg1801388
110 35 Check STD(5ug/L)
111 36 Check Blank
112 37 L2338253-14 wg1801388
113 38 WG1806771-1 WG1806771
114 39 WG1806771-2 WG1806771
115 40 l2338629-01 WG1806771
116 41 WG1806771-3 WG1806771
117 42 WG1806771-4 WG1806771
118 43 l2343361-01 WG1809022
119 44 l2343361-02 WG1809022
120 45 l2343480-01 WG1809022
121 46 WG1809857-1 WG1809857
122 47 XCheck STD(5ug/L)
123 47 Check STD(5ug/L)
124 48 Check Blank
125 49 WG1809857-2 WG1809857
126 50 L2342679-01 WG1809857
127 51 WG1809857-3 WG1809857
128 52 WG1809857-4 WG1809857
129 53 L2342679-02 WG1809857
130 59 Check STD(5ug/L)
131 60 Check Blank

No.	Sample No	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	ICV
2	8	ICB
3	9	0.2 PPB
4	10	wg1814941-1 wg1814941
5	11	wg1814941-2 wg1814941
6	12	L2342012-10 wg1814941
7	13	wg1814941-3 wg1814941
8	14	wg1814941-4 wg1814941
9	15	I2342674-01 WG1808299
10	16	I2342674-03 WG1808299
11	17	I2342674-04 WG1808299
12	18	I2342674-05 WG1808299
13	19	Check STD(5ug/L)
14	20	Check Blank
15	21	I2342674-06 WG1808299
16	22	I2342674-07 WG1808299
17	23	L2342864-03 WG1807995
18	24	L2342864-04 WG1807995
19	25	L2342864-05 WG1807995
20	26	L2342864-06 WG1807995
21	27	L2342864-07 WG1807995
22	28	L2342864-08 WG1807995
23	29	L2342864-09 WG1807995
24	30	L2342839-01 WG1808536
25	31	XCheck STD(5ug/L)
26	31	Check STD(5ug/L)
27	32	Check Blank
28	33	L2342839-02 WG1808536
29	34	L2342839-03 WG1808536
30	35	L2342839-04 WG1808536
31	36	L2342839-05 WG1808536
32	37	L2342839-06 WG1808536
33	38	WG1808458-1 WG1808458
34	39	WG1808458-2 WG1808458
35	40	WG1808458-3 WG1808458
36	41	L2342665-01 WG1808458
37	42	L2342665-02 WG1808458
38	43	Check STD(5ug/L)
39	44	Check Blank
40	45	L2343114-02 WG1808458

41 46 L2343114-03 WG1808458
42 47 L2343114-04 WG1808458
43 48 WG1808989-1 WG1808989
44 49 WG1808989-2 WG1808989
45 50 L2343024-02 WG1808989
46 51 WG1808989-3 WG1808989
47 52 WG1808989-4 WG1808989
48 53 L2343024-01 WG1808989
49 54 L2343024-03 WG1808989
50 55 Check STD(5ug/L)
51 56 Check Blank
52 57 L2343024-04 WG1808989
53 58 L2343145-02 WG1808989
54 59 L2343145-06 WG1808989
55 60 L2343145-07 WG1808989
56 61 L2343145-08 WG1808989
57 62 WG1809080-1 WG1809080
58 63 WG1809080-2 WG1809080
59 64 L2343106-02 WG1809080
60 65 L2343106-04 WG1809080
61 66 L2343106-06 WG1809080
62 67 Check STD(5ug/L)
63 68 Check Blank
64 69 L2343106-08 WG1809080
65 70 L2343411-02 WG1809080
66 71 L2343411-04 WG1809080
67 72 L2343411-06 WG1809080
68 73 L2343411-11 WG1809080
69 74 WG1809015-1 WG1809015
70 75 WG1809015-2 WG1809015
71 76 L2343024-01 WG1809015
72 77 WG1809015-3 WG1809015
73 78 WG1809015-4 WG1809015
74 79 Check STD(5ug/L)
75 80 Check Blank
76 1 L2343024-02 WG1809015
77 2 L2343024-03 WG1809015
78 3 L2343024-04 WG1809015
79 4 WG1811436-1 WG1811436
80 5 WG1811436-2 WG1811436
81 6 I2344543-02 WG1811436
82 7 WG1811436-3 WG1811436
83 8 WG1811436-4 WG1811436
84 9 I2344627-52 WG1811436
85 10 I2344627-53 WG1811436
86 11 Check STD(5ug/L)
87 12 Check Blank

88	13 L2342939-02 WG1808669
89	14 L2343302-01 WG1808669
90	15 L2343197-01 wg1809790
91	16 wg1809790-5 wg1809790
92	17 wg1809790-6 wg1809790
93	18 L2343170-02 wg1809790
94	19 L2343170-03 wg1809790
95	20 L2343197-03 wg1809790
96	21 L2343325-01 wg1809790
97	22 L2343339-01 wg1809790
98	23 Check STD(5ug/L)
99	24 Check Blank
100	25 L2343339-02 wg1809790
101	26 L2343339-03 wg1809790
102	27 Check STD(5ug/L)
103	28 Check Blank



METALS ELN REPORT

Workgroup: WG1809790

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 7470A	HNO3	22460101	H2SO4	22380152	METALS	METSPIKE	HG2330270805AJTV1	METSPIKE	HG23302708320,34405AJTV1	

Additional Reagent/Std		
	K2O8S2	PS2330262300BJS
	KMnO4	PP2331311114AJT
	NaCl-NH2OH.HCl	HH2331310945MJR
		ICV2330270922AJT

Sample/Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2343170-01 WATER	07/31/23 18:10	Harry Brown	25		07/31/23 18:10	8	96.0	07/31/23 20:10	25	
L2343170-02 WATER	07/31/23 18:10	Harry Brown	25		07/31/23 18:10	8	96.0	07/31/23 20:10	25	
L2343170-03 WATER	07/31/23 18:10	Harry Brown	25		07/31/23 18:10	8	96.0	07/31/23 20:10	25	
L2343197-01 WATER	07/31/23 18:10	Harry Brown	25		07/31/23 18:10	8	96.0	07/31/23 20:10	25	
L2343197-03 WATER	07/31/23 18:10	Harry Brown	25		07/31/23 18:10	8	96.0	07/31/23 20:10	25	
L2343325-01 WATER	07/31/23 18:10	Harry Brown	25		07/31/23 18:10	8	96.0	07/31/23 20:10	25	
L2343339-01 WATER	07/31/23 18:10	Harry Brown	25		07/31/23 18:10	8	96.0	07/31/23 20:10	25	
L2343339-02 WATER	07/31/23 18:10	Harry Brown	25		07/31/23 18:10	8	96.0	07/31/23 20:10	25	
L2343339-03 WATER	07/31/23 18:10	Harry Brown	25		07/31/23 18:10	8	96.0	07/31/23 20:10	25	
L2343822-04 WATER	07/31/23 18:10	Harry Brown	25		07/31/23 18:10	8	96.0	07/31/23 20:10	25	
L2343831-07 SAMP	07/31/23 18:10	Harry Brown	25		07/31/23 18:10	8	96.0	07/31/23 20:10	25	

Workgroup: WG1809790

Sample/Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1809790-1	07/31/23 18:10	Harry Brown	25		07/31/23 18:10	8	96.0	07/31/23 20:10	25	eln: CLH
BLANK										
WG1809790-2	07/31/23 18:10	Harry Brown	25	.25	07/31/23 18:10	8	96.0	07/31/23 20:10	25	
LCS										
WG1809790-3	07/31/23 18:10	Harry Brown	25	1.25	07/31/23 18:10	8	96.0	07/31/23 20:10	25	
MS										
WG1809790-4	07/31/23 18:10	Harry Brown	25	1.25	07/31/23 18:10	8	96.0	07/31/23 20:10	25	
MSD										
WG1809790-5	07/31/23 18:10	Harry Brown	25	1.25	07/31/23 18:10	8	96.0	07/31/23 20:10	25	
MS										
WG1809790-6	07/31/23 18:10	Harry Brown	25	1.25	07/31/23 18:10	8	96.0	07/31/23 20:10	25	
MSD										

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K:	2	ml
NaCl-Hydroxylamine Hy	1.5	ml



APPENDIX 6

Data Usability Summary Reports (DUSR)



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

LaBella Associates, D.P.C.
300 State Street, Suite 201
Rochester, New York 14614
ATTN: Mr. Drew Brantner
dbrantner@LaBellaPC.com

October 9, 2023

SUBJECT: 42 York Street - Data Validation

Dear Mr. Brantner,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on August 11, 2023. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #57261 RV1:

<u>SDG #</u>	<u>Fraction</u>
L2339907	VOC, SVOC, Metals

The data validation was performed under Category B guidelines. The analysis was validated using the following documents, as applicable to each method:

- USEPA Region 2 Standard Operating Procedure for Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-Method 8260B and 8260C, SOP HW-24, Revision 4 (October 2014)
- USEPA Region 2 Standard Operating Procedure for ICP-AES Data Validation, SOP No. HW-3a, ISM02.2, Revision 1 (September 2016)
- USEPA Region 2 Standard Operating Procedure for Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, SOP HW-22, Revision 5 (December 2010)
- USEPA Region 2 Standard Operating Procedure for Mercury and Total Solids Data Validation, SOP No. HW-3c, ISM02.2, Revision 1 (September 2016)
- USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005 (November 2020)
- USEPA National Functional Guidelines for Inorganic Superfund Data Review, EPA 542-R-20-006 (November 2020)
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

Site: 42 York Street
Laboratory: Alpha Analytical, Inc., Westborough, MA
Report No.: L2339907
Reviewer: Felomina Tanguilig and Pei Geng/Laboratory Data Consultants for LaBella - Rochester, NY
Date: September 6, 2023

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
TP-02-3-4 FT	L2339907-02	VOC, SVOC
TP-03-0.5-2 FT	L2339907-03	VOC, SVOC
TP-04-0.5-2.5 FT	L2339907-04	VOC, SVOC
TP-05-0.5-2.5 FT	L2339907-05	VOC, SVOC
TP-06-0.4-3 FT	L2339907-06	VOC, SVOC
TP-07-2.0-4.5 FT	L2339907-07	VOC, SVOC
BD-01-3-4 FT	L2339907-09	VOC, SVOC
TP-02-3-4 FTMS	L2339907-02MS	VOC, SVOC
TP-02-3-4 FTMSD	L2339907-02MSD	VOC, SVOC

Associated QC Samples(s):

Field/Trip Blanks: None Associated
Field Duplicate pair: None Associated

The above-listed soil samples were collected between July 11, 2023 and July 12, 2023 and were analyzed for volatile organic compounds (VOCs) by SW-846 method 8260D and semivolatile organic compounds (SVOCs) by SW-846 methods 8270E. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-Method 8260B and 8260C*, SOP HW-24, Revision 4 (October 2014), the USEPA Region 2 *Standard Operating Procedure for Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D*, SOP HW-22, Revision 5 (December 2010), and the USEPA *National Functional Guidelines for Organic Superfund Methods Data Review*, EPA 540-R-20-005 (November 2020), modified as necessary to accommodate the non-CLP methodologies used.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Moisture Content
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

VOC

Initial calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Compound	IC %D	Associated Samples		Validation Action
03/09/23	ICV-VOA129	Dichlorodifluoromethane	31.3	TP-02-3-4 FT TP-03-0.5-2 FT TP-04-0.5-2.5 FT TP-05-0.5-2.5 FT TP-06-0.4-3 FT TP-07-2.0-4.5 FT BD-01-3-4 FT	SS	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.

XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.

SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.

+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The dichlorodifluoromethane result was estimated due to second source calibration exceedance. The bias cannot be determined. The result can be used for project objectives as nondetect with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Compound	CC %D	Associated Samples		Validation Action
07/21/23	CCV-VOA129	Chloromethane	25.6	TP-02-3-4 FT	XX	UJ nondetects
		Bromomethane	43.2	TP-03-0.5-2 FT	XX	UJ nondetects
		2-Butanone	37.4	TP-04-0.5-2.5 FT	XX	UJ nondetects
		4-Methyl-2-pentanone	21.8	TP-05-0.5-2.5 FT	XX	UJ nondetects
		1,2-Dibromo-3-chloropropane	22.2	TP-06-0.4-3 FT TP-07-2.0-4.5 FT BD-01-3-4 FT	XX	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.

XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.

SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.

+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The chloromethane, bromomethane, 2-butanone, 4-methyl-2-pentanone, and 1,2-dibromo-3-chloropropane results were estimated due to continuing calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

SVOC

Initial calibration:

All criteria were met.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Compound	CC %D	Associated Samples		Validation Action
07/18/23	WG1804789-5	Atrazine	39.4	TP-02-3-4 FT TP-03-0.5-2 FT TP-05-0.5-2.5 FT TP-06-0.4-3 FT TP-07-2.0-4.5 FT	XX	UJ nondetects
07/18/23	WG1807489-3	Bis(2-chloroisopropyl) ether 2,4-Dinitrophenol 4,6-Dinitro-o-cresol	31 24.3 23.3	TP-02-3-4 FT TP-03-0.5-2 FT TP-05-0.5-2.5 FT TP-06-0.4-3 FT TP-07-2.0-4.5 FT	XX XX XX	UJ nondetects UJ nondetects UJ nondetects
07/20/23	WG1805740-3	Bis(2-chloroisopropyl) ether Isophorone 2-Nitrophenol 2-Nitroaniline 2,6-Dinitrotoluene Di-n-butylphthalate Butylbenzylphthalate 3,3'-Dichlorobenzidine Di-n-octylphthalate	37.4 20.5 28.8 26 22.7 27.9 26.9 20.2 20.8	TP-04-0.5-2.5 FT BD-01-3-4 FT	XX XX XX XX XX XX XX XX XX	UJ nondetects UJ nondetects UJ nondetects UJ nondetects UJ nondetects UJ nondetects UJ nondetects UJ nondetects UJ nondetects
07/20/23	WG1805740-4	Caprolactam	37	TP-04-0.5-2.5 FT BD-01-3-4 FT	XX	UJ nondetects
07/20/23	WG1805740-5	Atrazine	25.6	TP-04-0.5-2.5 FT BD-01-3-4 FT	XX	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.

XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.

SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.

+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The results for the compounds listed above were estimated due to continuing calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Blanks

VOC

Contamination was detected in the associated VOC method blank samples. The presence of blank contamination indicates that false positives may exist for these compounds in the associated samples. Action Levels (ALs) were established at <2x RL (for common contaminants) and <RL (for other contaminants) of the concentrations detected. The following table summarizes the contamination detected.

Blank ID	Compound	Level Detected	Action Level	Associated Samples
WG1806697-5Blank	Styrene	0.20 ug/Kg	RL	TP-02-3-4 FT TP-03-0.5-2 FT TP-04-0.5-2.5 FT TP-05-0.5-2.5 FT TP-06-0.4-3 FT TP-07-2.0-4.5 FT BD-01-3-4 FT

Sample results were qualified as follows:

- If sample concentration was < the reporting limit (RL) and ≤ the Action Level, qualify the result as a nondetect (U) at the RL.
- If sample concentration was > the RL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.
- If the sample concentration was > the RL and > the Action Level, qualification of the data was not required.

No samples were qualified since the associated sample results were nondetect.

A field blank was not associated with this sample set. Validation action was not required on this basis.

SVOC

Contamination was not detected in the method blanks.

A field blank was not associated with this sample set. Validation action was not required on this basis.

Surrogate Recoveries

All criteria were met.

MS/MSD Results

VOC

MS/MSD analyses were performed on sample TP-02-3-4 FT for VOC analysis. The following table lists the MS/MSD percent recoveries (%R) outside of control limits in the VOC analysis and the resulting validation actions.

MS ID	Compound	MS %R (Limits)	MS/D %R (Limits)	Affected Sample	Validation Action
TP-02-3-4 FTMS/MSD	1,2-Dichlorobenzene	-	59 (70-130)	TP-02-3-4 FT	UJ nondetects
	1,3-Dichlorobenzene	-	58 (70-130)		UJ nondetects
	1,4-Dichlorobenzene	-	56 (70-130)		UJ nondetects
	2-Butanone	65 (70-130)	50 (70-130)		UJ nondetects
	4-Methyl-2-pentanone	-	62 (70-130)		UJ nondetects
	2-Hexanone	64 (70-130)	51 (70-130)		UJ nondetects
	n-Butylbenzene	-	62 (70-130)		UJ nondetects
	sec-Butylbenzene	-	68 (70-130)		UJ nondetects
	tert-Butylbenzene	-	68 (70-130)		UJ nondetects
	1,2-Dibromo-3-chloropropane	-	60 (68-130)		UJ nondetects
	1,1,2,2-Tetrachloroethane	-	62 (70-130)		UJ nondetects
	p-Isopropyltoluene	-	62 (70-130)		UJ nondetects
	Naphthalene	-	54 (70-130)		UJ nondetects
	n-Propylbenzene	-	67 (70-130)		UJ nondetects
	1,2,4-Trichlorobenzene	-	52 (70-130)		UJ nondetects
	1,3,5-Trimethylbenzene	-	67 (70-130)		UJ nondetects
	1,2,4-Trimethylbenzene	-	65 (70-130)		UJ nondetects

- Within control limits

The results for the compounds listed above may be biased low due to low MS/MSD percent recoveries. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

SVOC

MS/MSD analyses were performed on sample TP-02-3-4 FT for SVOC analysis. The following table lists the MS/MSD percent recoveries (%R) outside of control limits in the SVOC analysis and the resulting validation actions.

MS ID	Compound	MS %R (Limits)	MS/D %R (Limits)	Affected Sample	Validation Action
TP-02-3-4 FTMS/MSD	Hexachlorocyclopentadiene	22 (40-140)	25 (40-140)	TP-02-3-4 FT	UJ nondetects

- Within control limits

The hexachlorocyclopentadiene result may be biased low due to low MS/MSD percent recoveries. The result can be used for project objectives as nondetect with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

LCS Results

VOC

The following table lists the LCS/LCSD percent recoveries (%R) outside of control limits in the VOC analysis and the resulting validation actions.

LCS ID	Compound	LCS %R (Limits)	LCS/D %R (Limits)	Affected Sample	Validation Action
WG1806697-3/4	2-Butanone 2-Hexanone	66 (70-130) -	63 (70-130) 68 (70-130)	TP-02-3-4 FT TP-03-0.5-2 FT TP-04-0.5-2.5 FT TP-05-0.5-2.5 FT TP-06-0.4-3 FT TP-07-2.0-4.5 FT BD-01-3-4 FT	UJ nondetects UJ nondetects

- Within control limits

The 2-butanone and 2-hexanone results may be biased low due to low LCS/LCSD percent recoveries. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

SVOC

All criteria were met.

Internal Standards

All criteria were met.

Field Duplicate Results

A field duplicate pair was not associated with this sample set. Validation action was not required on this basis.

Moisture Content

All criteria were met.

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the SVOC analysis. These results were qualified as estimated (J) by the laboratory.

No results were reported below the RL and above the MDL in the VOC analysis.

Dilutions were not required for VOC and SVOC analyses.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

- U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.
- J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.
- UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.
- JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.
- R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

LDC #: 57261A1a

VALIDATION COMPLETENESS WORKSHEET

SDG #: L2339907

Category B

Laboratory: Alpha Analytical, Inc., Westborough, MA

Date: 9/1/23

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA SW-846 Method 8260D)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	Δ/SW	% PSD ≤ 20, 12 ICV ≤ 30
IV.	Continuing calibration	SW	CCV ≤ 20
V.	Laboratory Blanks	SW	
VI.	Field blanks	N	
VII.	Surrogate spikes	Δ	
VIII.	Matrix spike/Matrix spike duplicates	SW	
IX.	Laboratory control samples	SW	LCS ID
X.	Field duplicates	N	
XI.	Internal standards	Δ	
XII.	Target analyte quantitation	Δ	No Results < RL > MDL
XIII.	Target analyte identification	Δ	
XIV.	Overall assessment of data	Δ	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

	Client ID	Lab ID	Matrix	Date
1	TP-02-3-4 FT	L2339907-02	Soil	07/11/23
2	TP-03-0.5-2 FT	L2339907-03	Soil	07/11/23
3	TP-04-0.5-2.5 FT	L2339907-04	Soil	07/12/23
4	TP-05-0.5-2.5 FT	L2339907-05	Soil	07/12/23
5	TP-06-0.4-3 FT	L2339907-06	Soil	07/12/23
6	TP-07-2.0-4.5 FT	L2339907-07	Soil	07/11/23
7	BD-01-3-4 FT	L2339907-08 ⁹	Soil	07/11/23
8	TP-02-3-4 FTMS	L2339907-02MS	Soil	07/11/23
9	TP-02-3-4 FTMSD	L2339907-02MSD	Soil	07/11/23
10				

Notes:

NG1806697- SB/blank				

LDC #: 57261 A/a

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: FT

Method: Volatiles (EPA SW 846 Method 8260 1)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was cooler temperature criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples analyzed within the 12 hour clock criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) $\leq 30\%/15\%$ and relative response factors (RRF) ≥ 0.05 ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>20%</u>
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) $\leq 20\%$?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>30%</u>
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) $\leq 20\%$ and relative response factors (RRF) ≥ 0.05 ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation findings worksheet.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VI. Field blanks				
Were field blanks were identified in this SDG?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were target analytes detected in the field blanks?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Validation Area	Yes	No	NA
VIII. Matrix spike/Matrix spike duplicates			
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	/		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		/	
IX. Laboratory control samples			
Was an LCS analyzed per analytical batch?	/		
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		/	
X. Field duplicates			
Were field duplicate pairs identified in this SDG?		/	
Were target analytes detected in the field duplicates?			/
XI. Internal standards			
Were internal standard area counts within -50% to +100% of the associated calibration standard?	/		
Were retention times within + 30 seconds of the associated calibration standard?	/		
XII. Target analyte quantitation			
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	/		
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	/		
Were target analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/		
XIII. Target analyte identification			
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	/		
Did analyte spectra meet specified EPA "Functional Guidelines" criteria?	/		
Were chromatogram peaks verified and accounted for?	/		
Were manual integrations reviewed and found acceptable?			/
Did the laboratory provide before and after integration printouts?			/
XIV. System performance			
System performance was found to be acceptable.	/		
XV. Overall assessment of data			
Overall assessment of data was found to be acceptable.	/		

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl chloride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3-Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

LDC #: 57261A/a

VALIDATION FINDINGS WORKSHEET

Initial Calibration Verification

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 D)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was an initial calibration verification standard analyzed after each ICAL for each instrument?

Y N N/A Were all %D within the validation criteria of ≤ 20 %D?

#	Date	Standard ID	Compound	Finding %D (Limit: $\leq 20.0\%$ / 30%)	Associated Samples	Qualifications
	3/9/23 6654	ICV-VOA 29	JJ	31.3	All	J UJ/A ND

LDC #: 57261A/a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT

VOA
METHOD: GC/MS ~~BNA~~ (EPA SW 846 Method ~~8270~~) 8260D

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- N N/A Was a continuing calibration standard analyzed at least once every 12 hours of sample analysis for each instrument?
- N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
- N N/A Were all %D and RRFs within the validation criteria of $\leq 20\%D$ and ≥ 0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: $\leq 20.0\%$)	Finding RRF (Limit: ≥ 0.05)	Associated Samples	Qualifications
	7/21/23	HG1806811-2	A	29.6		All ↓	N/A all N/A
	1837	CCV-VOA129	B	43.2			
			HH	29.3	FT		
			M	37.4			
			Y	21.8			
			M M	22.2			

LDC #: 57261 A/a

VALIDATION FINDINGS WORKSHEET Blanks

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 D)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?

Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?

Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 7/21/23

Conc. units: ug/kg

Associated Samples: All (ND)

Compound	Blank ID	Sample Identification							
	<u>NG1806697-9B</u>	<u>Blank</u>							
<u>FF</u>	<u>0.2U</u>								

Blank analysis date: _____

Conc. units: _____

Associated Samples: _____

Compound	Blank ID	Sample Identification							

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 57261 A/a

VALIDATION FINDINGS WORKSHEET Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: FT

METHOD: GCMS VOA (EPA SW 846 Method 8260) *A*

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?
- Y N N/A Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?
- Y N N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

#	MS/MSD ID	Compound	MS %Recovery	MSD %Recovery	MS/MSD %Recovery Limits	RPD (Limits)	Associated Samples	Qualifications
	8+9	mu	following pages			()	1	
						()		
						()		all %R = J/u/A
						()		all ND
						()		
						()		
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Matrix Spike Analysis Batch Quality Control

Project Name: PH II INVESTIGATION

Project Number: 2230119

Lab Number: L2339907

Report Date: 08/06/23

8 + 9

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-07,09 QC Batch ID: WG1806697-6 WG1806697-7 QC Sample: L2339907-02 Client ID: TP-02-3-4FT												
Chloroethane	ND	84.5	85	100		73	81		50-151	15		30
1,1-Dichloroethene	ND	84.5	98	115		88	98		65-135	10		30
trans-1,2-Dichloroethene	ND	84.5	91	107		78	86		70-130	15		30
Trichloroethene	ND	84.5	92	108		81	89		70-130	13		30
1,2-Dichlorobenzene	JJJ ND	84.5	66	78		53	59 ✓	Q	70-130	21		30
1,3-Dichlorobenzene	FFF ND	84.5	65	77		53	58 ✓	Q	70-130	21		30
1,4-Dichlorobenzene	HHH ND	84.5	64	76		51	56 ✓	Q	70-130	23		30
Methyl tert butyl ether	ND	84.5	95	112		80	88		66-130	18		30
p/m-Xylene	ND	169	150	91		130	72		70-130	18		30
o-Xylene	ND	169	150	91		130	72		70-130	18		30
cis-1,2-Dichloroethene	ND	84.5	87	102		74	82		70-130	16		30
Styrene	ND	169	150	90		130	72		70-130	17		30
Dichlorodifluoromethane	ND	84.5	88	104		81	89		30-146	9		30
Acetone	ND	84.5	85	100		70	78		54-140	19		30
Carbon disulfide	ND	84.5	92	108		82	91		59-130	11		30
2-Butanone	M ND	84.5	55	65 ✓	Q	45	50 ✓	Q	70-130	19		30
4-Methyl-2-pentanone	Y ND	84.5	65	76		56	62 ✓	Q	70-130	15		30
2-Hexanone	Z ND	84.5	54	64 ✓	Q	46	51 ✓	Q	70-130	17		30
1,2-Dibromoethane	ND	84.5	76	89		64	70		70-130	17		30
n-Butylbenzene	ND	84.5	70	83		56	62 ✓	Q	70-130	23		30
sec-Butylbenzene	III ND	84.5	74	88		62	68 ✓	Q	70-130	19		30
tert-Butylbenzene	ccc ND	84.5	73	86		61	68 ✓	Q	70-130	18		30
1,2-Dibromo-3-chloropropane	MM ND	84.5	64	75		54	60 ✓	Q	68-130	16		30

Matrix Spike Analysis
Batch Quality Control

Project Name: PH II INVESTIGATION

Project Number: 2230119

Lab Number: L2339907

Report Date: 08/06/23

849

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-07,09 QC Batch ID: WG1806697-6 WG1806697-7 QC Sample: L2339907-02 Client ID: TP-02-3-4FT												
Methylene chloride	ND	84.5	85	100		72	79		70-130	17		30
1,1-Dichloroethane	ND	84.5	93	110		80	89		70-130	15		30
Chloroform	ND	84.5	93	110		79	88		70-130	16		30
Carbon tetrachloride	ND	84.5	94	111		83	92		70-130	12		30
1,2-Dichloropropane	ND	84.5	82	97		69	76		70-130	17		30
Dibromochloromethane	ND	84.5	79	93		66	73		70-130	18		30
1,1,2-Trichloroethane	ND	84.5	78	92		64	71		70-130	18		30
Tetrachloroethene	ND	84.5	74	88		65	72		70-130	14		30
Chlorobenzene	ND	84.5	74	88		63	70		70-130	17		30
Trichlorofluoromethane	ND	84.5	100	119		90	99		70-139	12		30
1,2-Dichloroethane	ND	84.5	87	103		73	81		70-130	18		30
1,1,1-Trichloroethane	ND	84.5	100	122		90	100		70-130	13		30
Bromodichloromethane	ND	84.5	90	106		75	83		70-130	18		30
trans-1,3-Dichloropropene	ND	84.5	74	88		63	70		70-130	17		30
cis-1,3-Dichloropropene	ND	84.5	80	95		66	74		70-130	19		30
Bromoform	ND	84.5	76	89		63	70		70-130	18		30
1,1,2,2-Tetrachloroethane	ND	84.5	67	80		56	62	Q	70-130	19		30
Benzene	ND	84.5	90	106		77	85		70-130	16		30
Toluene	ND	84.5	79	94		68	75		70-130	16		30
Ethylbenzene	ND	84.5	80	95		68	75		70-130	17		30
Chloromethane	ND	84.5	61	72		54	60		52-130	12		30
Bromomethane	ND	84.5	110	132		97	107		57-147	15		30
Vinyl chloride	ND	84.5	79	94		72	80		67-130	10		30



Matrix Spike Analysis Batch Quality Control

Project Name: PH II INVESTIGATION
Project Number: 2230119

Lab Number: L2339907
Report Date: 08/06/23

8 → 9

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-07,09 QC Batch ID: WG1806697-6 WG1806697-7 QC Sample: L2339907-02 Client ID: TP-02-3-4FT												
Isopropylbenzene	ND	84.5	76	90		64	71		70-130	17		30
p-Isopropyltoluene	GGG	ND	84.5	69	82	56	62 ✓	Q	70-130	21		30
Naphthalene	MMM	ND	84.5	59	70	49	54 ✓	Q	70-130	20		30
n-Propylbenzene	YY	ND	84.5	74	87	61	67 ✓	Q	70-130	19		30
1,2,4-Trichlorobenzene	KKK	ND	84.5	62	73	47	52 ✓	Q	70-130	27		30
1,3,5-Trimethylbenzene	AAA	ND	84.5	74	88	61	67 ✓	Q	70-130	20		30
1,2,4-Trimethylbenzene	DDD	ND	84.5	73	86	59	65 ✓	Q	70-130	21		30
Methyl Acetate	ND	84.5	96	113		77	86		51-146	22		30
Cyclohexane	ND	84.5	94	112		83	92		59-142	13		30
Freon-113	ND	84.5	97	115		93	103		50-139	4		30
Methyl cyclohexane	ND	84.5	91	107		80	89		70-130	12		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		107		70-130
4-Bromofluorobenzene	101		103		70-130
Dibromofluoromethane	100		99		70-130
Toluene-d8	100		99		70-130



LDC #: 57261A/a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 6 of 1
Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 D)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y/N/N/A Was a LCS required?
- Y/N/N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	WG1806697-	M	66 (70-130)	63 (70-130)	()	All	J/W/P
	3/4 (LCS ID)	Z	()	68 (70-130)	()	↓	↓
			()	()	()		
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VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260 *D*)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the analytes identified below using the following calculation:

% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$
 $\text{RRF} = (A_x)(C_{is}) / (A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
 RRF = continuing calibration RRF
 A_x = Area of compound, A_{is} = Area of associated internal standard
 C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ceV	7/21/23 1837	v (1st internal standard)	0.8350	0.922	0.922	10.4	10.4
			ce (2nd internal standard)	0.7370	0.747	0.747	1.4	1.4
			MMM (3rd internal standard)	2.1810	1.848	1.848	15.3	15.3
			(4th internal standard)					
2			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 57261A la

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
 Reviewer: FT
 2nd reviewer: _____

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the analytes identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane	20.0	20.124	101	101	0
1,2-Dichloroethane-d4		20.880	104	104	
Toluene-d8	↓	19.353	97	97	↓
Bromofluorobenzene	↓	20.499	102	102	↓

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 5726/A 1a

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
 Reviewer: FT

METHOD: GC/MS VOA (EPA Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the analytes identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA

Where: SSC = Spiked sample concentration
 SA = Spike added

SC = Sample concentration

RPD = |MSC - MSC| * 2 / (MSC + MSDC)

MSC = Matrix spike concentration

MSDC = Matrix spike duplicate concentration

MS/MSD sample: 8 & 9

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	84.5	90.2	ND	98	88	115 98	116	98	98	10	11
Trichloroethene				92	81	108	109	89	90	13	13
Benzene				90	77	106	107	85	85	16	16
Toluene				79	68	94	93	75	75	16	15
Chlorobenzene				74	63	88	88	70	70	17	16

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 57261 A/a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS VOA (EPA Method 8260) B

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the analytes identified below using the following calculation:

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2 / (LCSC + LCSDC)

LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: _____

Compound	Spike Added (ug/l)		Spiked Sample Concentration (ug/l)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	40	40	42.968	42.919	107	107	107	107	0	0
Trichloroethene	↓	↓	44.48	43.968	111	111	110	110	1	1
Benzene	↓	↓	41.171	41.086	103	103	103	103	0	0
Toluene	↓	↓	38.395	38.326	96	96	96	96	0	0
Chlorobenzene	↓	↓	37.422	37.547	94	94	94	94	0	0

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 57261A/a

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260) B

Y N N/A
Y N N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target analytes agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

- A_x = Area of the characteristic ion (EICP) for the compound to be measured
- A_{is} = Area of the characteristic ion (EICP) for the specific internal standard
- I_s = Amount of internal standard added in nanograms (ng)
- RRF = Relative response factor of the calibration standard.
- V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).
- Df = Dilution factor.
- %S = Percent solids, applicable to soils and solid matrices only.

Example: W41006697-3
Sample I.D. LC5, : ✓

$$\begin{aligned} \text{Conc.} &= \frac{468011 (20.0)}{272230 (0.835)} \\ &= 40.45 \text{ ug/kg} \end{aligned}$$

#	Sample ID	Compound	Reported Concentration (ug/kg)	Calculated Concentration (ug/kg)	Qualification
	<u>LC5</u>	<u>✓</u>	<u>41</u>	<u>40.45</u>	

LDC #: 57261A2a

VALIDATION COMPLETENESS WORKSHEET

SDG #: L2339907

Category B

Laboratory: Alpha Analytical, Inc., Westborough, MA

Date: 9/1/2023

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Semivolatiles (EPA SW-846 Method 8270E)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	% RSD ≤ 20, r^2 ICV ≤ 30
IV.	Continuing calibration	SW	CW ≤ 20
V.	Laboratory Blanks	A	
VI.	Field blanks	N	
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	SW	
IX.	Laboratory control samples	A	LOSIP
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	Result < RL 7 MDL = Idw
XIII.	Target analyte identification	A	
XIV.	Overall assessment of data	A	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

	Client ID	Lab ID	Matrix	Date
1	TP-02-3-4 FT	L2339907-02	Soil	07/11/23
2	TP-03-0.5-2 FT	L2339907-03	Soil	07/11/23
3	TP-04-0.5-2.5 FT	L2339907-04	Soil	07/12/23
4	TP-05-0.5-2.5 FT	L2339907-05	Soil	07/12/23
5	TP-06-0.4-3 FT	L2339907-06	Soil	07/12/23
6	TP-07-2.0-4.5 FT	L2339907-07	Soil	07/11/23
7	BD-01-3-4 FT	L2339907-08	Soil	07/11/23
8	TP-02-3-4 FTMS	L2339907-02MS	Soil	07/11/23
9	TP-02-3-4 FTMSD	L2339907-02MSD	Soil	07/11/23
10				

Notes:

1	WG1803858-1B	Blank		
	WG1804755-1B	Blank		

Method: Semivolatiles (EPA SW 846 Method 8270 E)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) <u>≤ 20%</u> 15/30% and relative response factors (RRF) within method criteria?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of > 0.990?	✓			
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) <u>≤ 20%</u> 30%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the blanks validation findings worksheet.			✓	
VI. Field blanks				
Were field blanks were identified in this SDG?		✓		
Were target analytes detected in the field blanks?			✓	
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any percent recoveries (%R) was less than 10%, was a reanalysis performed to confirm %R ?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	✓			

Validation Area	Yes	No	NA	Findings/Comments
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		<input checked="" type="checkbox"/>		
IX. Laboratory control samples				
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		<input checked="" type="checkbox"/>		
Were target analytes detected in the field duplicates?			<input checked="" type="checkbox"/>	
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	<input checked="" type="checkbox"/>			
Were retention times within ± 30 seconds of the associated calibration standard?	<input checked="" type="checkbox"/>			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	<input checked="" type="checkbox"/>			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	<input checked="" type="checkbox"/>			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>			
XIII. Target analyte identification				
Were relative retention times (RRT's) within $+ 0.06$ RRT units of the standard?	<input checked="" type="checkbox"/>			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	<input checked="" type="checkbox"/>			
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>			
Were manual integrations reviewed and found acceptable?			<input checked="" type="checkbox"/>	
Did the laboratory provide before and after integration printouts?			<input checked="" type="checkbox"/>	
XIV. System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>			

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	CC. Dimethylphthalate	EEE. Bis(2-ethylhexyl)phthalate	GGGG. C30-Hopane	I1. Methyl methanesulfonate
B. Bis (2-chloroethyl) ether	DD. Acenaphthylene	FFF. Di-n-octylphthalate	HHHH. 1-Methylphenanthrene	J1. Ethyl methanesulfonate
C. 2-Chlorophenol	EE. 2,6-Dinitrotoluene	GGG. Benzo(b)fluoranthene	IIII. 1,4-Dioxane	K1. o,o',o"-Triethylphosphorothioate
D. 1,3-Dichlorobenzene	FF. 3-Nitroaniline	HHH. Benzo(k)fluoranthene	JJJJ. Acetophenone	L1. n-Phenylene diamine
E. 1,4-Dichlorobenzene	GG. Acenaphthene	III. Benzo(a)pyrene	KKKK. Atrazine	M1. 1,4-Naphthoquinone
F. 1,2-Dichlorobenzene	HH. 2,4-Dinitrophenol	JJJ. Indeno(1,2,3-cd)pyrene	LLLL. Benzaldehyde	N1. N-Nitro-o-toluidine
G. 2-Methylphenol	II. 4-Nitrophenol	KKK. Dibenz(a,h)anthracene	MMMM. Caprolactam	O1. 1,3,5-Trinitrobenzene
H. 2,2'-Oxybis(1-chloropropane)	JJ. Dibenzofuran	LLL. Benzo(g,h,i)perylene	NNNN. 2,6-Dichlorophenol	P1. Pentachlorobenzene
I. 4-Methylphenol	KK. 2,4-Dinitrotoluene	MMM. Bis(2-Chloroisopropyl)ether	OOOO. 1,2-Diphenylhydrazine	Q1. 4-Aminobiphenyl
J. N-Nitroso-di-n-propylamine	LL. Diethylphthalate	NNN. Aniline	PPPP. 3-Methylphenol	R1. 2-Naphthylamine
K. Hexachloroethane	MM. 4-Chlorophenyl-phenyl ether	OOO. N-Nitrosodimethylamine	QQQQ. 3&4-Methylphenol	S1. Triphenylene
L. Nitrobenzene	NN. Fluorene	PPP. Benzoic Acid	RRRR. 4-Dimethyldibenzothiophene (4MDT)	T1. Octachlorostyrene
M. Isophorone	OO. 4-Nitroaniline	QQQ. Benzyl alcohol	SSSS. 2/3-Dimethyldibenzothiophene (4MDT)	U1. Famphur
N. 2-Nitrophenol	PP. 4,6-Dinitro-2-methylphenol	RRR. Pyridine	TTTT. 1-Methyldibenzothiophene (1MDT)	V1. 1,4-phenylenediamine
O. 2,4-Dimethylphenol	QQ. N-Nitrosodiphenylamine	SSS. Benzidine	UUUU.. 2,3,4,6-Tetrachlorophenol	W1. Methapyrilene
P. Bis(2-chloroethoxy)methane	RR. 4-Bromophenyl-phenylether	TTT. 1-Methylnaphthalene	VVVV. 1,2,4,5-Tetrachlorobenzene	X1. Pentachloroethane
Q. 2,4-Dichlorophenol	SS. Hexachlorobenzene	UUU. Benzo(b)thiophene	WWWW.. 2-Picoline	Y1. 3,3'-Dimethylbenzidine
R. 1,2,4-Trichlorobenzene	TT. Pentachlorophenol	VVV. Benzonaphthothiophene	XXXX. 3-Methylcholanthrene	Z1. o-Toluidine
S. Naphthalene	UU. Phenanthrene	WWW. Benzo(e)pyrene	YYYY. a,a-Dimethylphenethylamine	A2. 1-Naphthylamine
T. 4-Chloroaniline	VV. Anthracene	XXX. 2,6-Dimethylnaphthalene	ZZZZ. Hexachloropropene	B2. 4-Aminobiphenyl
U. Hexachlorobutadiene	WW. Carbazole	YYY. 2,3,5-Trimethylnaphthalene	A1. N-Nitrosodiethylamine	C2. 4-Nitroquinoline-1-oxide
V. 4-Chloro-3-methylphenol	XX. Di-n-butylphthalate	ZZZ. Perylene	B1. N-Nitrosodi-n-butylamine	D2. Hexachloropene
W. 2-Methylnaphthalene	YY. Fluoranthene	AAAA. Dibenzothiophene	C1. N-Nitrosomethylethylamine	E2. Bis (2-chloro-1-methylethyl) ether
X. Hexachlorocyclopentadiene	ZZ. Pyrene	BBBB. Benzo(a)fluoranthene	D1. N-Nitrosomorpholine	F2. Bifenthrin
Y. 2,4,6-Trichlorophenol	AAA. Butylbenzylphthalate	CCCC. Benzo(b)fluorene	E1. N-Nitrosopyrrolidine	G2. Cyfluthrin
Z. 2,4,5-Trichlorophenol	BBB. 3,3'-Dichlorobenzidine	DDDD. cis/trans-Decalin	F1. Phenacetin	H2. Cypermethrin
AA. 2-Chloronaphthalene	CCC. Benzo(a)anthracene	EEEE. 1,1'-Biphenyl	G1. 2-Acetylaminofluorene	I2. Permethrin (cis/trans)
BB. 2-Nitroaniline	DDD. Chrysene	FFFF. Retene	H1. Pronamide	J2. 5-Nitro-o-toluidine

LDC #: 57261A2a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 ^E)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours of sample analysis for each instrument?
- Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
- Y N N/A Were all %D and RRFs within the validation criteria of ≤20%D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	7/18/23 2054	WG1804789-5 CCV-SV103	KKK	39.4		1, 2, 4 → 6, 8, 9 WG1803058-1B/blank	J/W/A ND
	7/18/23 2119	WG1804789-3 CCV-SV103	MMM HH *	31 24.3 23.3		↓	J/W/A ND ↓
	7/18/23 2142	WG1804789-4 CCV-SV103	MMMM	F7			
	7/19/23 0710	WG1804724-3 CCV-SV124	MMM J N * * X BB EE FF TT XX	39.2 20.6 36.4 21.2 22.7 28.6 26 23 28.2 26.9		WG1804755-1 13/blank	J/W/A
			AAA BBB * 4,6-Dinitro- <i>o</i> -creso ** p-chloro-m-creso	27.4 22.1		↓	↓

LDC #: 57261 A2a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 ^F)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours of sample analysis for each instrument?
- Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
- Y N N/A Were all %D and RRFs within the validation criteria of $\leq 20\%D$ and ≥ 0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: $\leq 20.0\%$)	Finding RRF (Limit: ≥ 0.05)	Associated Samples	Qualifications
	7/19/23 0727	WG1804924 CCV-SV124	-4 MMMM	34.1		3.7 WG1804755-113/am	J/u/A ND
	7/20/23 1848	WG1805740 CCV-SV124	-3 MMM M N BB EE XX AAA	37.4 20.5 26.8 26 22.7 27.9 26.9		3.7	J/u/A ND
			BBB FFF	20.2 20.8		↓	↓
	7/20/23 1905	WG1805740	-4 MMMM	37		3.7	↓ ND
	7/20/23 1922	WG1805740	-5 KKKK	25.6		3.7	↓ NP

**VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates**

METHOD: GCMS VOA (EPA SW 846 Method 8270 C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?
- Y N N/A Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?
- Y N N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

#	MS/MSD ID	Compound	MS %Recovery	MSD %Recovery	MS/MSD %Recovery Limits	RPD (Limits)	Associated Samples	Qualifications
	849	X	22	25	40-140	()	1	J/W/A ND
						()		
						()		
						()		
						()		
						()		
						()		
						()		
						()		
						()		
						()		
						()		
						()		
						()		
						()		
						()		

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GCMS SVOA 8270D

The calibration factors (RRFF), average RRFF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

$RRF = (Ax)(Cis)/(Ais)(Cx)$

average RRF = sum of the RRFs/number of standards

$\%RSD = 100 * (S/X)$

Where:

Ax = Area of compound

Cx = Concentration of compound

S = Standard deviation of the RRFs

X = Mean of the RRFs

Ais = Area of associated internal standard

Cis = Concentration of internal Standard

#	Standard ID	Calibration Date	Compound	Reported (RRF 10 ug/ml std)	Recalculated (RRF 10 ug/ml std)	Reported AverageRRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
	ICAL SV103	5/15/2023	A	1.562	1.562	1.587	1.587	5.71	5.71
			S	1.035	1.035	1.052	1.052	2.61	2.61
			GG	1.134	1.134	1.160	1.160	2.59	2.59
			UU	1.081	1.081	1.102	1.102	3.34	3.34
			DDD	1.279	1.279	1.326	1.326	7.80	7.80
			JJJ	0.803	0.803	0.853	0.853	16.75	16.75

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GCMS SVOA 8270E

The calibration factors (RRFF), average RRFF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

$RRF = (Ax)(Cis)/(Ais)(Cx)$

average RRF = sum of the RRFs/number of standards

$\%RSD = 100 * (S/X)$

Where:

Ax = Area of compound

Cx = Concentration of compound

S = Standard deviation of the RRFs

X = Mean of the RRFs

Ais = Area of associated internal standard

Cis = Concentration of internal Standard

#	Standard ID	Calibration Date	Compound	Reported (RRF 10 ug/ml std)	Recalculated (RRF 10 ug/ml std)	Reported AverageRRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
	ICAL SV124	5/26/2023	A	1.469	1.469	1.514	1.514	17.76	17.76
			S	0.957	0.957	1.011	1.011	6.02	6.02
			GG	1.195	1.195	1.190	1.190	7.74	7.74
			UU	0.992	0.992	1.061	1.061	8.42	8.42
			DDD	1.239	1.239	1.325	1.325	7.64	7.64
			JJJ	1.169	1.169	1.303	1.303	19.06	19.06

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270 E)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the target analytes identified below using the following calculation:

% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$
 $\text{RRF} = (A_x)(C_{is}) / (A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
 A_x = Area of target analyte
 C_x = Concentration of target analyte

RRF = continuing calibration RRF
 A_{is} = Area of associated internal standard
 C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Average RRF (Initial)	Reported	Recalculated	Reported	Recalculated
					RRF (CC)	RRF (CC)	%D	%D
1	CCV SV103	7/18/23 2054 2119	A (1st IS)	1.587	1.376	1.376	13.3	13.3
			S (2nd IS)	1.092	0.922	0.922	12.4	12.4
			GG (3rd IS)	1.160	1.064	1.064	8.3	8.3
			UU (4th IS)	1.102	0.946	0.946	14.2	14.2
			DD (5th IS)	1.326	1.088	1.088	17.9	17.9
			JJ (6th IS)	0.857	0.854	0.854	0.1	0.1
2	CCV SV124	07/20/23 1848	A (1st IS)	1.514	1.809	1.809	19.5	19.5
			S (2nd IS)	1.011	1.076	1.076	6.4	6.4
			GG (3rd IS)	1.190	1.223	1.223	2.8	2.8
			UU (4th IS)	1.061	1.114	1.114	5	5
			DD (5th IS)	1.325	1.319	1.319	0.5	0.5
			JJ (6th IS)	1.303	1.413	1.413	8.4	8.4
3			(1st IS)					
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 57261A2a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270 □)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: A2

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	25.0	19.360	77	77	0
2-Fluorobiphenyl	↓	16.436	66	66	
Terphenyl-d14	↓	15.038	60	60	
Phenol-d5	50.0	32.713	65	65	
2-Fluorophenol	↓	31.891	64	64	
2,4,6-Tribromophenol	↓	36.024	72	72	↓

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					

LDC #: 57261A2a

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
 Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 E)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the target analytes identified below using the following calculation:

$$SSC = \frac{(A_x)(C_{is})(F_v)(D_f)}{(A_{is})(RRF)(V_s \text{ or } W_s)(\%S/100)}$$

$$\%Recovery = (SSC/SA)*100$$

$$RPD = ((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD) * 100$$

Where: A_x = Area of the target analyte
 A_{is} = Area for the specific internal standard
 C_{is} = Concentration of internal standard
 F_v = Final volume of extract
 D_f = Dilution factor
 RRF = Average relative response factor of the target analyte
 V_s = Initial volume of the sample
 W_s = Initial weight of the sample
 $\%S$ = Percent Solid
 SSC = Spiked sample concentration
 SA = Spike added
 MS = Matrix spike
 MSD = Matrix spike duplicate

MS/MSD samples: 8 + 9

Compound	Spike Added (ug/Kg)		Sample Concentration (ug/Kg)	Spiked Sample Concentration (ug/Kg)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc	Reported	Recalc	Reported	Recalc
Phenol	1480	1480	ND	880	1100	59	59	74	74	22	22
N-Nitroso-di-n-propylamine			ND	1100	1400	74	74	94	94	24	24
4-Chloro-3-methylphenol				1100	1300	74	74	87	88	17	17
Acenaphthene				880	1100	59	59	74	74	22	22
Pentachlorophenol				870	1000	59	59	67	67	14	14
Pyrene				900	1100	67	67	74	74	20	20

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

$$SSC = \frac{(A_x)(C_{is})(F_v)(D_f)}{(A_{is})(RRF)(V_s \text{ or } W_s)(\%S/100)}$$

$$\%Recovery = (SSC/SA)*100$$

$$RPD = (((SSCLCS - SSCLCSD) * 2) / (SSCLCS + SSCLCSD))*100$$

Where: A_x = Area of the target analyte
 A_{is} = Area for the specific internal standard
 C_{is} = Concentration of internal standard
 F_v = Final volume of extract
 D_f = Dilution factor
 RRF = Average relative response factor of the target analyte

W_s = Initial weight of the sample
 $\%S$ = Percent Solid
 SSC = Spiked sample concentration
 LCS = Laboratory control sample
 $LCSD$ = Laboratory control sample duplicate
 V_s = Initial volume of the sample

LCS/LCSD samples: WG180305B-2/3 ves1D

Compound	Spike Added (ug/ml)		Spike Concentration (ug/ml)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol	40	40	32.127 33.291	27.645	80	80	69	69	15	15
N-Nitroso-di-n-propylamine			37.913	31.791	95	95	79	79	18	18
4-Chloro-3-methylphenol			36.149	31.192	90	90	78	78	14	15
Acenaphthene			29.833	25.054	74	74	63	63	16	17
Pentachlorophenol			29.873	24.721	75	75	62	62	19	19
Pyrene			31.607	25.705	79	79	64	64	21	21

LDC #: 57261 A2a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
 Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 E)

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

$$\text{Concentration} = \frac{(A_x)(I_s)(V_i)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the target analyte to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_t = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

on col = 0.603
1/30.09
%s = 83

Example:

Sample I.D. # 2, S

$$\text{Conc.} = \frac{(14404)(40)(1)(1000)}{(801951)(1.052)(30.09)(0.83)}$$

27.345 ug/kg

#	Sample ID	Target Analyte	Reported Concentration (ug/kg)	Calculated Concentration (ug/kg)	Qualification
	<i>#2</i>	<i>S</i>	<i>27</i>	<i>27.345</i>	

Site: 42 York Street
Laboratory: Alpha Analytical, Inc., Westborough, MA
Report No.: L2339907
Reviewer: Nancy Carpenter and Pei Geng/Laboratory Data Consultants for LaBella -
Rochester, NY
Date: September 11, 2023

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
TP-02-3-4 FT	L2339907-02	Metals
TP-03-0.5-2 FT	L2339907-03	Metals
TP-04-0.5-2.5 FT	L2339907-04	Metals
TP-05-0.5-2.5 FT	L2339907-05	Metals
TP-06-0.4-3 FT	L2339907-06	Metals
TP-07-2.0-4.5 FT	L2339907-07	Metals
BD-01-3-4 FT	L2339907-08	Metals
TP-02-3-4 FTMS	L2339907-02MS	Metals
TP-02-3-4 FTMSD	L2339907-02MSD	Metals

Associated QC Samples(s):

Field/Trip Blanks: None Associated
Field Duplicate pair: TP-02-3-4 FT and BD-01-3-4 FT

The above-listed soil samples were collected between July 11, 2023 and July 12, 2023 and were analyzed for metals by SW-846 methods 6010D/7471B. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for ICP-AES Data Validation*, SOP No. HW-3a, ISM02.2, Revision 1 (September 2016), the USEPA Region 2 *Standard Operating Procedure for Mercury and Total Solids Data Validation*, SOP No. HW-3c, ISM02.2, Revision 1 (September 2016), and the USEPA *National Functional Guidelines for Inorganic Superfund Data Review*, EPA 542-R-20-006 (November 2020), modified as necessary to accommodate the non-CLP methodologies used.

The inorganic data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
- Instrument Calibration
- Contract Required Quantitation Limit (CRQL) Standard Recoveries
- Blank Analysis Results
- Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
- Matrix Spike (MS) Results
- Laboratory Duplicate Results
- Laboratory Control Sample (LCS) Results
- Serial Dilution Results
- Field Duplicate Results
- Moisture Content
- Detection Limits Results
- Sample Quantitation Results

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

Instrument Calibration

All criteria were met.

Blank Results

Metals

Analytes were detected below the reporting limits in the laboratory blank samples. The following table summarizes the contamination and validation actions taken.

Blank ID	Analyte	Level Detected	Action Level	Associated Samples
PB (prep blank)	Arsenic	0.097 mg/Kg	RL	TP-02-3-4 FT
	Sodium	8.13 mg/Kg	RL	
ICB/CCB	Sodium	2.52 mg/L	RL	TP-02-3-4 FT
PB (prep blank)	Arsenic	0.097 mg/Kg	RL	TP-03-0.5-2 FT TP-04-0.5-2.5 FT TP-05-0.5-2.5 FT TP-06-0.4-3 FT
	Sodium	8.13 mg/Kg	RL	
PB (prep blank)	Arsenic	0.097 mg/Kg	RL	
	Sodium	8.13 mg/Kg	RL	
ICB/CCB	Iron	0.382 mg/L	RL	TP-07-2.0-4.5 FT BD-01-3-4 FT

Blank Actions for analytes detected below the reporting limit(RL).

If the sample result is < RL, report the result as nondetect (U) at the RL.

If the sample result is > RL or nondetect, no action is required.

Blank Actions for analytes detected above the reporting limit or RL.

If the sample result is < RL and < action level; report the result as nondetect (U) at the RL.

If the sample result is > RL and < action level; report the result as nondetect (U) at the reported value.

If the sample result is > action level or nondetect, no action is required.

Qualified sample results are listed in the table below.

Sample	Analyte	Reported Level	Validation Action
TP-02-3-4 FT	Sodium	76.9 mg/Kg	174U mg/Kg
TP-03-0.5-2 FT	Sodium	92.3 mg/Kg	186U mg/Kg
TP-04-0.5-2.5 FT	Sodium	132 mg/Kg	194U mg/Kg
TP-05-0.5-2.5 FT	Sodium	184 mg/Kg	188U mg/Kg
TP-06-0.4-3 FT	Sodium	174 mg/Kg	253U mg/Kg
BD-01-3-4 FT	Sodium	68.4 mg/Kg	172U mg/Kg

These results can be used for project objectives as nondetect (U) which may have a minor impact on the data usability.

A field blank was not associated with this sample set. Validation action was not required on this basis.

ICP ICS Results

Analytes were within control limits in the ICSA and ICSAB analyses.

MS/MSD Results

MS/MSD analyses were performed on sample TP-02-3-4 FT for metals analyses. The following table lists the MS/MSD percent recoveries (%R) outside of control limits in the metals analyses and the resulting validation actions.

MS ID	Analyte	MS %R (Limits)	MS/D %R (Limits)	Affected Sample	Validation Action
TP-02-3-4 FTMS/MSD	Antimony Lead Zinc	72 (75-125) 72 (75-125) 60 (75-125)	66 (75-125) - -	TP-02-3-4 FT TP-03-0.5-2 FT TP-04-0.5-2.5 FT TP-05-0.5-2.5 FT TP-06-0.4-3 FT TP-07-2.0-4.5 FT BD-01-3-4 FT	J detects J detects J detects
TP-02-3-4 FTMS/MSD	Magnesium	-	136 (75-125)	TP-02-3-4 FT TP-03-0.5-2 FT TP-04-0.5-2.5 FT TP-05-0.5-2.5 FT TP-06-0.4-3 FT TP-07-2.0-4.5 FT BD-01-3-4 FT	J detects

- Within control limits

The antimony, lead, and zinc results may be biased low due to low MS/MSD percent recoveries. The results can be used for project objectives as estimated values (J) which may have a minor impact on the data usability.

The magnesium result may be biased high due to high MS/MSD percent recovery. The result can be used for project objectives as an estimated value (J) which may have a minor impact on the data usability.

For TP-02-3-4 FTMS/MSD, no data were qualified for aluminum, iron, and manganese percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration.

The following table lists the MS/MSD relative percent differences (RPD) outside of control limits in the metals analyses and the resulting validation actions.

MS ID	Analyte	RPD (Limits)	Affected Sample	Validation Action
TP-02-3-4 FTMS/MSD	Manganese	29 (≤ 20)	TP-02-3-4 FT TP-03-0.5-2 FT TP-04-0.5-2.5 FT TP-05-0.5-2.5 FT TP-06-0.4-3 FT TP-07-2.0-4.5 FT BD-01-3-4 FT	J detects

The manganese result was estimated due to MS/MSD relative percent difference exceedance. The bias cannot be determined. The result can be used for project objectives as an estimated value (J) which may have a minor impact on the data usability.

Laboratory Duplicate Results

Laboratory duplicates were not associated with this sample set. Validation action was not required on this basis.

LCS Results

All criteria were met.

Serial Dilution Results

A serial dilution analysis was performed on sample TP-05-2-4FT for metals analyses. All criteria were met.

Field Duplicate Results

Samples TP-02-3-4 FT and BD-01-3-4 FT were submitted as the field duplicate pair with this sample group. The following table summarizes the concentrations.

Analyte	Concentration (mg/Kg)		RPD
	TP-02-3-4 FT	BD-01-3-4 FT	
Aluminum	4380	4710	7
Antimony	0.611	0.484	23
Arsenic	2.90	2.07	33
Barium	30.5	35.3	15
Beryllium	0.336	0.341	1
Calcium	2280	2260	1
Chromium	6.76	6.95	3
Cobalt	3.41	3.70	8
Copper	7.86	6.59	18
Iron	12000	10900	10
Lead	17.2	4.34	119
Magnesium	1660	1820	9
Manganese	359	458	24
Nickel	7.58	9.16	19
Potassium	379	364	4
Sodium	76.9	68.4	12
Vanadium	13.3	12.4	7
Zinc	47.0	30.0	44

Moisture Content

All criteria were met.

Detection Limits Results

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the metals analyses. These results were estimated (J) by the laboratory.

Due to high target analyte levels or sample matrix, select samples were analyzed at dilutions. The following table lists the sample dilutions which were performed and the results reported. RLs were elevated accordingly.

Sample	Metals Analyses Reported
TP-02-3-4 FT TP-03-0.5-2 FT TP-04-0.5-2.5 FT TP-05-0.5-2.5 FT TP-06-0.4-3 FT TP-07-2.0-4.5 FT BD-01-3-4 FT	2-fold dilution due to sample matrix for 6010D metals

Sample Quantitation Results

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

- U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.
- J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.
- UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.
- R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

LDC #: 57261A4b

VALIDATION COMPLETENESS WORKSHEET

Date: 9/8/23


SDG #: L2339907

Category B

Page: 1 of 1

Laboratory: Alpha Analytical, Inc., Westborough, MA

Reviewer: NC

2nd Reviewer: **METHOD:** Metals (EPA SW-846 Method 6010D/7471B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	A	
IV.	Laboratory Blanks	SW	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	SW	MS/MSD (8, 9): Al, Fe, Mn > 4X spike amount
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	A	
IX.	Laboratory control samples	A	LCS
X.	Field Duplicates	SW	(1, 7)
XI.	Target Analyte Quantitation	A	MDL < samples < RL: Jdet/A
XII.	Overall Assessment of Data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	TP-02-3-4 FT 2X for 6010D, due to matrix	L2339907-02	Soil	07/11/23
2	TP-03-0.5-2 FT 2X for 6010D, due to matrix	L2339907-03	Soil	07/11/23
3	TP-04-0.5-2.5 FT 2X for 6010D, due to matrix	L2339907-04	Soil	07/12/23
4	TP-05-0.5-2.5 FT 2X for 6010D, due to matrix	L2339907-05	Soil	07/12/23
5	TP-06-0.4-3 FT 2X for 6010D, due to matrix	L2339907-06	Soil	07/12/23
6	TP-07-2.0-4.5 FT 2X for 6010D, due to matrix	L2339907-07	Soil	07/11/23
7	BD-01-3-4 FT 2X for 6010D, due to matrix	L2339907-09	Soil	07/11/23
8	TP-02-3-4 FTMS	L2339907-02MS	Soil	07/11/23
9	TP-02-3-4 FTMSD	L2339907-02MSD	Soil	07/11/23
10				
11				
12				

Notes: Sample #7 – Lab ID changed to “09” from “08”.

All elements are applicable to each sample as noted below.

Sample ID	Target Analyte List
1 to 7	Metals by EPA SW-846 Method 6010D, Mercury by EPA SW-846 Method 7471B
QC	
8, 9	Metals by EPA SW-846 Method 6010D, Mercury by EPA SW-846 Method 7471B

Analysis Method

ICP	Metals by EPA SW-846 Method 6010D
CVAA	Mercury by EPA SW-846 Method 7471B

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	Yes	No	NA	Comments
I. Technical holding times				
Were all technical holding times met?	Yes			
Were all water samples preserved to a pH of <2.			NA	
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?			NA	
Were %RSDs of isotopes in the tuning solution ≤5%?			NA	
III. Calibration				
Were all instruments calibrated daily?	Yes			
Were the proper standards used?	Yes			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	Yes			
Were the low level standard checks within 70-130%?	Yes			
Were all initial calibration correlation coefficients within limits as specified by the method?	Yes			
IV. Interference Check Sample				
Were the interference check samples performed daily?	Yes			
Were the AB solution recoveries within 80-120%?	Yes			
V. Blanks				
Was a method blank associated with every sample in this SDG?	Yes			
Was there contamination in the method blanks?	Yes			
Was there contamination in the initial and continuing calibration blanks?	Yes			
VI. Field Blanks				
Were field blanks identified in this SDG?		No		
Were target analytes detected in the field blanks?			NA	
VII. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)		No		
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?		No		

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	Yes	No	NA	Comments
VIII. Serial Dilutions				
Were all percent differences <10%?	Yes			
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		No		
IX. Laboratory Control Samples				
Was a LCS analyzed for each batch in the SDG?	Yes			
Were the LCS recoveries and RPDs (if applicable) within QC limits?	Yes			
X. Field Duplicates				
Were field duplicates identified in this SDG?	Yes			
Were target analytes detected in the field duplicates?	Yes			
XI. Internal Standards				
Were all percent recoveries within the 30- 120% (60-125% for EPA Method 200.8) QC limits?			NA	
If the recoveries were outside the limits, was a reanalysis performed?			NA	
XII. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	Yes			
Were all soil samples dry weight corrected?	Yes			
XIII. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	Yes			

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Soil preparation factor applied (if applicable): 40

Sample Concentration, unless otherwise noted: mg/Kg

Associated Samples: 1

				Sample Identification								
Analyte	PB (mg/Kg)	Maximum ICB/CCB (mg/L)	Action Level	1								
As	0.097											
Na	8.13			76.9/174U								
Na		2.52										

Sample Concentration, unless otherwise noted: mg/Kg

Associated Samples: 2 to 5

				Sample Identification								
Analyte	PB (mg/Kg)	Maximum ICB/CCB (mg/L)	Action Level	2	3	4	5					
As	0.097											
Na	8.13			92.3/186U	132/194U	184/188U	174/253U					

Sample Concentration, unless otherwise noted: mg/Kg

Associated Samples: 6, 7

				Sample Identification								
Analyte	PB (mg/Kg)	Maximum ICB/CCB (mg/L)	Action Level	7								
As	0.097											
Na	8.13			68.4/172U								
Fe		0.382										

Comments: The listed analyte concentration is the highest ICB or CCB detected in the analysis. The action level, when applicable, is established at 5X the highest ICB, CCB, or PB concentration.

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

MS/MSD analysis was performed by the laboratory. All MS/MSD percent recoveries (%R) and relative percent differences (RPDs) were within the acceptable limits with the following exceptions:

MS/MSD ID	Matrix	Analyte	MS %R	MSD %R	%R Limit	RPD	RPD Limit	Associated Samples	Qualification	Det/ND
8, 9	S	Sb	72	66	75-125			All samples	J/UJ/A	Det PDS = 91%
		Pb	72						J/UJ/A	Det PDS = 93%
		Mg		136					Jdet/A	Det PDS = 92%
		Zn	60						J/UJ/A	Det PDS = 89%
		Mn				29	20		J/UJ/A	Det

Comments: MS/MSD (8, 9): Al, Fe, Mn > 4X spike amount.

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Percent recoveries (%R) for the laboratory control sample (LCS), matrix spike (MS), and post digestion spike (PDS) were recalculated using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis. For the MS calculation, Found = SSR (Spiked Sample Result) - SR (Sample Result)

True = concentration of each analyte in the source

The sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$\text{RPD} = (\text{Absolute value}(S-D) \times 200) / (S+D)$$

S = Original sample concentration

D = Duplicate sample concentration

The serial dilution percent difference (%D) was recalculated using the following formula.

$$\%D = (\text{Absolute value}(I - \text{SDR})) \times 100 / (I)$$

I = Initial sample result

SDR = Serial dilution result (with a 5x dilution applied)

Sample ID	Type of Analysis	Element	Found/S/I	True/D/SDR	Recalculated %R/RPD/%D	Reported %R/RPD/%D	Acceptable (Y/N)
WG1802991-2	LCS	Hg	14.61146497	18.2	80.28277456	80	Y
8	MS	Hg	1.627024423	1.63	99.81744926	100	Y
8, 9	MS/MSD RPD	Hg	1.627024423	1.607061944	1.234505003	1	Y
1	PDS	Pb	43.07671941	46.2	93.2396524	93	Y
1	Serial dilution	Mg	1665.830564	1722.589759	3.407260992	4	Y

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	Yes	No	NA	Comments
VIII. Serial Dilutions				
Were all percent differences <10%?	Yes			
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		No		
IX. Laboratory Control Samples				
Was a LCS analyzed for each batch in the SDG?	Yes			
Were the LCS recoveries and RPDs (if applicable) within QC limits?	Yes			
X. Field Duplicates				
Were field duplicates identified in this SDG?	Yes			
Were target analytes detected in the field duplicates?	Yes			
XI. Internal Standards				
Were all percent recoveries within the 30- 120% (60-125% for EPA Method 200.8) QC limits?			NA	
If the recoveries were outside the limits, was a reanalysis performed?			NA	
XII. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	Yes			
Were all soil samples dry weight corrected?	Yes			
XIII. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	Yes			



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

LaBella Associates, D.P.C.
300 State Street, Suite 201
Rochester, New York 14614
ATTN: Mr. Drew Brantner
dbrantner@LaBellaPC.com

October 9, 2023

SUBJECT: 42 York Street - Data Validation

Dear Mr. Brantner,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on August 23, 2023. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #57388 RV1:

<u>SDG #</u>	<u>Fraction</u>
L2343170	VOC, SVOC, Metals

The data validation was performed under Category B guidelines. The analysis was validated using the following documents, as applicable to each method:

- USEPA Region 2 Standard Operating Procedure for Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-Method 8260B and 8260C, SOP HW-24, Revision 4 (October 2014)
- USEPA Region 2 Standard Operating Procedure for ICP-AES Data Validation, SOP No. HW-3a, ISM02.2, Revision 1 (September 2016)
- USEPA Region 2 Standard Operating Procedure for Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, SOP HW-22, Revision 5 (December 2010)
- USEPA Region 2 Standard Operating Procedure for Mercury and Total Solids Data Validation, SOP No. HW-3c, ISM02.2, Revision 1 (September 2016)
- USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005 (November 2020)
- USEPA National Functional Guidelines for Inorganic Superfund Data Review, EPA 542-R-20-006 (November 2020)
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

Category B EDD NYDUSR LDC# 57388 (La Bella - Rochester, NY / 42 York Street, City of Rochester, NY)

Project #2230119

LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (8260D)		SVOA (8270E)		PAHs (8270E -SIM)		Metals (6020B)		Hg (7470A)																							
				W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S		
Matrix: Water/Soil				W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S		
A	L2343170	08/23/23	09/14/23	4	0	3	0	3	0	3	0	3	0																						
Total	TR/PG			4	0	3	0	3	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16

Site: 42 York Street
Laboratory: Alpha Analytical, Inc., Westborough, MA
Report No.: L2343170
Reviewer: Felomina Tanguilig and Pei Geng/Laboratory Data Consultants for LaBella - Rochester, NY
Date: September 27, 2023

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
YS-MW-2023-01-072623	L234170-01	VOC, SVOC, SVOC (SIM)
MW-01-072623	L234170-02	VOC, SVOC, SVOC (SIM)
YS-MW-BD-072623	L234170-03	VOC, SVOC, SVOC (SIM)
TRIP BLANK	L234170-04	VOC
YS-MW-2023-01-072623MS	L234170-01MS	VOC, SVOC, SVOC (SIM)
YS-MW-2023-01-072623MSD	L234170-01MSD	VOC, SVOC, SVOC (SIM)

Associated QC Samples(s):

Field/Trip Blanks: TRIP BLANK

Field Duplicate pair: YS-MW-2023-01-072623 and YS-MW-BD-072623

The above-listed water samples were collected on July 26, 2023 and were analyzed for volatile organic compounds (VOCs) by SW-846 method 8260D and semivolatile organic compounds (SVOCs) by SW-846 methods 8270E and 8270E in selected ion monitoring (SIM) mode. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-Method 8260B and 8260C*, SOP HW-24, Revision 4 (October 2014), the USEPA Region 2 *Standard Operating Procedure for Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D*, SOP HW-22, Revision 5 (December 2010), and the USEPA *National Functional Guidelines for Organic Superfund Methods Data Review*, EPA 540-R-20-005 (November 2020), modified as necessary to accommodate the non-CLP methodologies used.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

VOC

Initial calibration:

All criteria were met.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Compound	CC %D	Associated Samples		Validation Action
08/04/23	WG1811888-2	4-Methyl-2-pentanone	28.3	YS-MW-2023-01-072623	XX	UJ nondetects
		2-Hexanone	38.5	MW-01-072623	XX	UJ nondetects
		1,2-Dibromo-3-chloropropane	25.9	YS-MW-BD-072623	XX	UJ nondetects
		Naphthalene	22.8	TRIP BLANK	XX	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.

XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.

SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.

+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 4-methyl-2-pentanone, 2-hexanone, 1,2-dibromo-3-chloropropane, and naphthalene results were estimated due to continuing calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

SVOC

Initial calibration:

All criteria were met.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Standard ID	Compound	CC %D	Associated Samples		Validation Action
08/01/23	WG1810592-3	4,6-Dinitro-o-cresol	21.5	YS-MW-2023-01-072623 MW-01-072623 YS-MW-BD-072623	XX	UJ nondetects

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.

XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.

SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.

+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 4,6-dinitro-o-cresol result was estimated due to continuing calibration exceedance. The bias cannot be determined. The result can be used for project objectives as nondetect with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

SVOC (SIM)

All criteria were met.

Blanks

VOC

Contamination was not detected in the method blanks.

No positive results were found in the trip blank sample TRIP BLANK for VOC analysis.

SVOC and SVOC (SIM)

Contamination was not detected in the method blanks.

A field blank was not associated with this sample set. Validation action was not required on this basis.

Surrogate Recoveries

All criteria were met.

MS/MSD Results

VOC

MS/MSD analyses were performed on sample YS-MW-2023-01-072623 for VOC analysis. The following table lists the MS/MSD percent recoveries (%R) outside of control limits in the VOC analysis and the resulting validation actions.

MS ID	Compound	MS %R (Limits)	MS/D %R (Limits)	Affected Sample	Validation Action
YS-MW-2023-01-072623MS/MSD	Chloroform	-	140 (70-130)	YS-MW-2023-01-072623	None
	Carbon tetrachloride	-	140 (63-132)		
	1,1,1-Trichloroethane	-	140 (67-130)		
	Freon 113	-	140 (70-130)		
	Chloroethane	-	140 (55-138)		

- Within control limits

Validation action was not required for chloroform, carbon tetrachloride, 1,1,1-trichloroethane, freon 113, and chloroethane due to high MS/MSD recoveries as positive results only are affected and these compounds were not detected in the associated sample.

The following table lists the MS/MSD relative percent differences (RPD) outside of control limits in the VOC analysis and the resulting validation actions.

MS ID	Compound	RPD (Limits)	Affected Sample	Validation Action
YS-MW-2023-01-072623MS/MSD	Bromomethane	24 (≤20)	YS-MW-2023-01-072623	None

Validation action was not required for bromomethane due to MS/MSD relative percent difference exceedance as positive results only are affected and this compound was not detected in the associated sample.

SVOC and SVOC (SIM)

MS/MSD analyses were performed on sample YS-MW-2023-01-072623 for SVOC and SVOC (SIM) analyses. All criteria were met.

LCS Results

VOC and SVOC

All criteria were met.

SVOC (SIM)

The following table lists the LCS/LCSD percent recoveries (%R) outside of control limits in the SVOC (SIM) analysis and the resulting validation actions.

LCS ID	Compound	LCS %R (Limits)	LCS/D %R (Limits)	Affected Sample	Validation Action
WG1809555-2/3	Hexachlorobenzene	39 (40-140)	-	YS-MW-2023-01-072623	UJ nondetects
	Hexachloroethane	39 (40-140)	-	MW-01-072623 YS-MW-BD-072623	UJ nondetects

- Within control limits

The hexachlorobenzene and hexachloroethane results may be biased low due to low LCS/LCSD percent recoveries. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Internal Standards

All criteria were met.

Field Duplicate Results

Samples YS-MW-2023-01-072623 and YS-MW-BD-072623 were submitted as the field duplicate pair with this sample group. The following table summarizes the concentrations.

VOC

Compound	Concentration (ug/L)		RPD
	YS-MW-2023-01-072623	YS-MW-BD-072623	
Trichloroethene	2.9	2.8	4
Acetone	5.0U	1.5	Not comparable

SVOC

There were no detected compounds in the field duplicate pair for SVOC.

SVOC (SIM)

Compound	Concentration (ug/L)		RPD
	YS-MW-2023-01-072623	YS-MW-BD-072623	
Fluoranthene	0.05	0.10U	Not comparable
Benzo(a)anthracene	0.02	0.10U	Not comparable
Benzo(b)fluoranthene	0.03	0.10U	Not comparable
Phenanthrene	0.02	0.10U	Not comparable
Pyrene	0.04	0.10U	Not comparable

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the VOC and SVOC (SIM) analyses. These results were qualified as estimated (J) by the laboratory.

No results were reported below the RL and above the MDL in the SVOC analysis.

Dilutions were not required for VOC, SVOC, and SVOC (SIM) analyses.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

- U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.
- J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified “J” data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The ‘J’ data may be biased high or low or the direction of the bias may be indeterminable.
- UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified “UJ” data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The ‘UJ’ data may be biased low.
- JN - The analysis indicates the presence of a compound that has been “tentatively identified” (N) and the associated numerical value represents its approximate (J) concentration.
- R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

LDC #: 57388A1a
 SDG #: L2343170
 Laboratory: Alpha Analytical, Inc., Westborough, MA

VALIDATION COMPLETENESS WORKSHEET
 Category B

Date: 9/26/23
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA SW-846 Method 8260D)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A Δ	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	A Δ	% PSD ≤ 20 ICV ≤ 30
IV.	Continuing calibration	SW	CCV ≤ 20
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB = 4
VII.	Surrogate spikes	Δ	
VIII.	Matrix spike/Matrix spike duplicates	SW	
IX.	Laboratory control samples	A	LCs ID
X.	Field duplicates	SW	D = 1, 3
XI.	Internal standards	Δ	
XII.	Target analyte quantitation	Δ	Results < RL > MOL = Idet
XIII.	Target analyte identification	Δ	
XIV.	Overall assessment of data	Δ	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

	Client ID	Lab ID	Matrix	Date
1	YS-MW-2023-01-072623 D	L234170-01	Water	07/26/23
2	MW-01-072623	L234170-02	Water	07/26/23
3	YS-MW-BD-072623 D	L234170-03	Water	07/26/23
4	TRIP BLANK TB	L234170-04	Water	07/26/23
5	YS-MW-2023-01-072623MS	L234170-01MS	Water	07/26/23
6	YS-MW-2023-01-072623MSD	L234170-01MSD	Water	07/26/23
7				
8				
9				
10				

Notes:

WG1811888 - 5 blank				

LDC #: 573 48A/a

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: FT

Method: Volatiles (EPA SW 846 Method 8260 D)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of > 0.990?	✓			
Were all percent relative standard deviations (%RSD) $\leq 30\%$ 15% and relative response factors (RRF) ≥ 0.05 ? <u>20%</u>	✓			
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) $\leq 20\%$? <u>30%</u>	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) $\leq 20\%$ and relative response factors (RRF) ≥ 0.05 ?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation findings worksheet.		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	

LDC #: 57388A1a

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: FT

Validation Area	Yes	No	NA
VIII. Matrix spike/Matrix spike duplicates			
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	/		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		/	
IX. Laboratory control samples			
Was an LCS analyzed per analytical batch?	/		
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/		
X. Field duplicates			
Were field duplicate pairs identified in this SDG?	/		
Were target analytes detected in the field duplicates?	/		
XI. Internal standards			
Were internal standard area counts within -50% to +100% of the associated calibration standard?	/		
Were retention times within + 30 seconds of the associated calibration standard?	/		
XII. Target analyte quantitation			
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	/		
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	/		
Were target analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/		
XIII. Target analyte identification			
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	/		
Did analyte spectra meet specified EPA "Functional Guidelines" criteria?	/		
Were chromatogram peaks verified and accounted for?	/		
Were manual integrations reviewed and found acceptable?			/
Did the laboratory provide before and after integration printouts?			/
XIV. System performance			
System performance was found to be acceptable.	/		
XV. Overall assessment of data			
Overall assessment of data was found to be acceptable.	/		

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl chloride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3-Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

LDC #: 57388A 1a

VALIDATION FINDINGS WORKSHEET Continuing Calibration

Page: 1 of 7
Reviewer: FT

METHOD: GC/MS VOA (EPA SW 846 Method 8260 D)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
- Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
- Y N N/A Were all %D and RRFs within the validation criteria of $\leq 20\%$ %D and ≥ 0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: $\leq 20.0\%$)	Finding RRF (Limit: ≥ 0.05)	Associated Samples	Qualifications
	8/4/23	WG1811888-2	Y	28.3		All	J/MS/A all M
	0651	CCV	Z	38.5		↓	↓
		NON-TRG	XX	22	CB		
		MM		25.9			
		MMM		22.8			

LDC #: 5738A/a

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
 Reviewer: FT

METHOD: GCMS VOA (EPA SW 846 Method 8260 D)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?
- Y N N/A Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?
- Y N N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

#	MS/MSD ID	Compound	MS %Recovery	MSD %Recovery	MS/MSD %Recovery Limits	RPD (Limits)	Associated Samples	Qualifications
	5 + 6	K		140	70-130	()	1	Jdu / A all NYD
		0		140	63-132	()	↓	↓
		N		140	67-130	()	↓	↓
		B				24 (20)	↓	↓
		GI		140	70-130	()	↓	↓
		D		140	55-138	()	↓	↓
						()		
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VALIDATION FINDINGS WORKSHEET
Field Duplicates

METHOD: GCMS VOA (EPA Method 8260) D

Y N N/A
Y N N/A

Were field duplicate pairs identified in this SDG?

Were target compounds detected in the field duplicate pairs?

Compound	Concentration (<u>ug/l</u>)		RPD (<u>≤</u> %)	QUAL
	1	3		
S	2.9	2.8	4	↗
F	5.04	1.5	NC	

Compound	Concentration ()		RPD (<u>≤</u> %)	QUAL

Compound	Concentration ()		RPD (<u>≤</u> %)	QUAL

LDC #: 57388A | a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT**METHOD:** GC/MS VOA (EPA SW 846 Method 8260 D)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the analytes identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (A_x)(C_{is}) / (A_{is})(C_x)$$

Where: ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

 A_x = Area of compound, A_{is} = Area of associated internal standard C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV	08/4/23 0651	S (1st internal standard)	0.184	0.19	0.19	3.3	3.3
			CC (2nd internal standard)	0.463	0.445	0.445	3.9	3.9
			MMM (3rd internal standard)	1.095	0.838	0.838	22.8	22.8
			(4th internal standard)					
2			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 5738A/a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
 Reviewer: FT
 2nd reviewer: _____

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the analytes identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane	10.0	12.293	123	123	0
1,2-Dichloroethane-d4		11.220	112	112	
Toluene-d8	↓	9.508	95	95	↓
Bromofluorobenzene	↓	9.172	92	92	↓

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 57388 A/a

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
 Reviewer: FT

METHOD: GC/MS VOA (EPA Method 8260^D)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the analytes identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA

Where: SSC = Spiked sample concentration
 SA = Spike added

SC = Sample concentration

RPD = | MSC - MSC | * 2 / (MSC + MSDC)

MSC = Matrix spike concentration

MSDC = Matrix spike duplicate concentration

MS/MSD sample: 5, 6

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	10	10	ND	11.848	13.468	120	118	130	135	8	13
Trichloroethene	↓	↓	29	13.253	14.982	101	104	121	121	14	12
Benzene	↓	↓	ND	11.331	12.730	110	113	130	127	17	12
Toluene	↓	↓	↓	9.743	10.737	97	97	110	107	13	10
Chlorobenzene	↓	↓	↓	9.648	10.784	96	96	110	108	14	11

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 57388Ab

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
 Reviewer: FT

METHOD: GC/MS VOA (EPA Method 8260 D)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the analytes identified below using the following calculation:

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration
 SA = Spike added

RPD = | LCSC - LCSDC | * 2 / (LCSC + LCSDC)

LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: W9181888-3/4

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	10	10	10.684	11.128	110	107	110	111	0	4
Trichloroethene			10.328	10.105	100	103	100	101	0	2
Benzene			10.973	10.847	110	110	110	108	0	1
Toluene			9.615	9.574	96	96	96	96	0	0
Chlorobenzene			9.882	9.684	99	99	97	97	2	2

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC/MS Semivolatiles (EPA SW-846 Method 8270E)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	% PSD ≤ 20 ICV ≤ 30
IV.	Continuing calibration	SW	CV ≤ 20
V.	Laboratory Blanks	A	
VI.	Field blanks	N	
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LC 10
X.	Field duplicates	ND	D = 1, 3
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	N 0 Results < RL 7MDL
XIII.	Target analyte identification	A	
XIV.	Overall assessment of data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

	Client ID	Lab ID	Matrix	Date
1	YS-MW-2023-01-072623	L234170-01	Water	07/26/23
2	MW-01-072623	L234170-02	Water	07/26/23
3	YS-MW-BD-072623	L234170-03	Water	07/26/23
4	YS-MW-2023-01-072623MS	L234170-01MS	Water	07/26/23
5	YS-MW-2023-01-072623MSD	L234170-01MSD	Water	07/26/23
6				
7				
8				
9				
10				

Notes:

WG1809554-1 Blank				

Method: Semivolatiles (EPA SW 846 Method 8270 E)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	/			
Was cooler temperature criteria met?	/			
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 12 hour clock criteria?	/			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) $\leq 20\%$ 15/30% and relative response factors (RRF) within method criteria?	/			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of > 0.990 ?			/	
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	/			
Were all percent differences (%D) $\leq 20\%$ 30%?	/			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) $\leq 20\%$ and relative response factors (RRF) within method criteria?		/		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	/			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	/			
Was there contamination in the laboratory blanks? If yes, please see the blanks validation findings worksheet.		/		
VI. Field blanks				
Were field blanks were identified in this SDG?		/		
Were target analytes detected in the field blanks?			/	
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	/			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			/	
If any percent recoveries (%R) was less than 10%, was a reanalysis performed to confirm %R ?			/	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	/			

LDC #: 517388 A2a

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: FT

Validation Area	Yes	No	NA	Findings/Comments
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IX. Laboratory control samples				
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
X. Field duplicates				
Were field duplicate pairs identified in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were target analytes detected in the field duplicates?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were retention times within + 30 seconds of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII. Target analyte identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were manual integrations reviewed and found acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Did the laboratory provide before and after integration printouts?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XIV. System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	CC. Dimethylphthalate	EEE. Bis(2-ethylhexyl)phthalate	GGGG. C30-Hopane	I1. Methyl methanesulfonate
B. Bis (2-chloroethyl) ether	DD. Acenaphthylene	FFF. Di-n-octylphthalate	HHHH. 1-Methylphenanthrene	J1. Ethyl methanesulfonate
C. 2-Chlorophenol	EE. 2,6-Dinitrotoluene	GGG. Benzo(b)fluoranthene	IIII. 1,4-Dioxane	K1. o,o',o"-Triethylphosphorothioate
D. 1,3-Dichlorobenzene	FF. 3-Nitroaniline	HHH. Benzo(k)fluoranthene	JJJJ. Acetophenone	L1. n-Phenylene diamine
E. 1,4-Dichlorobenzene	GG. Acenaphthene	III. Benzo(a)pyrene	KKKK. Atrazine	M1. 1,4-Naphthoquinone
F. 1,2-Dichlorobenzene	HH. 2,4-Dinitrophenol	JJJ. Indeno(1,2,3-cd)pyrene	LLLL. Benzaldehyde	N1. N-Nitro-o-toluidine
G. 2-Methylphenol	II. 4-Nitrophenol	KKK. Dibenz(a,h)anthracene	MMMM. Caprolactam	O1. 1,3,5-Trinitrobenzene
H. 2,2'-Oxybis(1-chloropropane)	JJ. Dibenzofuran	LLL. Benzo(g,h,i)perylene	NNNN. 2,6-Dichlorophenol	P1. Pentachlorobenzene
I. 4-Methylphenol	KK. 2,4-Dinitrotoluene	MMM. Bis(2-Chloroisopropyl)ether	OOOO. 1,2-Diphenylhydrazine	Q1. 4-Aminobiphenyl
J. N-Nitroso-di-n-propylamine	LL. Diethylphthalate	NNN. Aniline	PPPP. 3-Methylphenol	R1. 2-Naphthylamine
K. Hexachloroethane	MM. 4-Chlorophenyl-phenyl ether	OOO. N-Nitrosodimethylamine	QQQQ. 3&4-Methylphenol	S1. Triphenylene
L. Nitrobenzene	NN. Fluorene	PPP. Benzoic Acid	RRRR. 4-Dimethyldibenzothiophene (4MDT)	T1. Octachlorostyrene
M. Isophorone	OO. 4-Nitroaniline	QQQ. Benzyl alcohol	SSSS. 2/3-Dimethyldibenzothiophene (4MDT)	U1. Famphur
N. 2-Nitrophenol	PP. 4,6-Dinitro-2-methylphenol	RRR. Pyridine	TTTT. 1-Methyldibenzothiophene (1MDT)	V1. 1,4-phenylenediamine
O. 2,4-Dimethylphenol	QQ. N-Nitrosodiphenylamine	SSS. Benzidine	UUUU.. 2,3,4,6-Tetrachlorophenol	W1. Methapyrilene
P. Bis(2-chloroethoxy)methane	RR. 4-Bromophenyl-phenylether	TTT. 1-Methylnaphthalene	VVVV. 1,2,4,5-Tetrachlorobenzene	X1. Pentachloroethane
Q. 2,4-Dichlorophenol	SS. Hexachlorobenzene	UUU. Benzo(b)thiophene	WWWW.. 2-Picoline	Y1. 3,3'-Dimethylbenzidine
R. 1,2,4-Trichlorobenzene	TT. Pentachlorophenol	VVV. Benzonaphthothiophene	XXXX. 3-Methylcholanthrene	Z1. o-Toluidine
S. Naphthalene	UU. Phenanthrene	WWW. Benzo(e)pyrene	YYYY. a,a-Dimethylphenethylamine	A2. 1-Naphthylamine
T. 4-Chloroaniline	VV. Anthracene	XXX. 2,6-Dimethylnaphthalene	ZZZZ. Hexachloropropene	B2. 4-Aminobiphenyl
U. Hexachlorobutadiene	WW. Carbazole	YYY. 2,3,5-Trimethylnaphthalene	A1. N-Nitrosodiethylamine	C2. 4-Nitroquinoline-1-oxide
V. 4-Chloro-3-methylphenol	XX. Di-n-butylphthalate	ZZZ. Perylene	B1. N-Nitrosodi-n-butylamine	D2. Hexachloropene
W. 2-Methylnaphthalene	YY. Fluoranthene	AAAA. Dibenzothiophene	C1. N-Nitrosomethylethylamine	E2. Bis (2-chloro-1-methylethyl) ether
X. Hexachlorocyclopentadiene	ZZ. Pyrene	BBBB. Benzo(a)fluoranthene	D1. N-Nitrosomorpholine	F2. Bifenthrin
Y. 2,4,6-Trichlorophenol	AAA. Butylbenzylphthalate	CCCC. Benzo(b)fluorene	E1. N-Nitrosopyrrolidine	G2. Cyfluthrin
Z. 2,4,5-Trichlorophenol	BBB. 3,3'-Dichlorobenzidine	DDDD. cis/trans-Decalin	F1. Phenacetin	H2. Cypermethrin
AA. 2-Chloronaphthalene	CCC. Benzo(a)anthracene	EEEE. 1,1'-Biphenyl	G1. 2-Acetylaminofluorene	I2. Permethrin (cis/trans)
BB. 2-Nitroaniline	DDD. Chrysene	FFFF. Retene	H1. Pronamide	J2. 5-Nitro-o-toluidine

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GCMS SVOA 8270E

The calibration factors (RRFF), average RRFF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

$RRF = (Ax)(Cis)/(Ais)(Cx)$

average RRF = sum of the RRFs/number of standards

$\%RSD = 100 * (S/X)$

Where:

Ax = Area of compound

Cx = Concentration of compound

S = Standard deviation of the RRFs

X = Mean of the RRFs

Ais = Area of associated internal standard

Cis = Concentration of internal Standard

#	Standard ID	Calibration Date	Compound	Reported (RRF 10 ug/ml std)	Recalculated (RRF 10 ug/ml std)	Reported AverageRRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
	ICAL SV109	5/31/2023	A	1.511	1.511	1.553	1.553	7.88	7.88
			T	0.122	0.122	0.129	0.129	7.78	7.78
			FF	0.363	0.363	0.378	0.378	4.54	4.54
			XX	1.338	1.338	1.391	1.391	6.49	6.49
			EEE	1.026	1.026	1.044	1.044	.7.62	.7.62

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270 E)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the target analytes identified below using the following calculation:

% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$
 $\text{RRF} = (A_x)(C_{is}) / (A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
 A_x = Area of target analyte
 C_x = Concentration of target analyte

RRF = continuing calibration RRF
 A_{is} = Area of associated internal standard
 C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Average RRF (Initial)	Reported	Recalculated	Reported	Recalculated
					RRF (CC)	RRF (CC)	%D	%D
1	ccv SV109	8/1/23 2357	Δ (1st IS)	1.553	1.495	1.495	3.7	3.7
			T (2nd IS)	0.190 0.129	0.129	0.129	0	0
			FF (3rd IS)	0.378	0.387	0.387	2.4	2.4
			XX (4th IS)	1.391	1.334	1.334	4.1	4.1
			EE (5th IS)	1.044	0.979	0.979	6.2	6.2
			(6th IS)					
2			(1st IS)					
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					
3			(1st IS)					
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 57388A2a

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270 E)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	25.0	12.446	50	50	0
2-Fluorobiphenyl	↓	18.178	73	73	↓
Terphenyl-d14	↓	16.515	66	66	
Phenol-d5	50.0	16.523	33	33	
2-Fluorophenol	↓	25.691	51	51	
2,4,6-Tribromophenol	↓	36.146	72	72	

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270 E)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the target analytes identified below using the following calculation:

$$SSC = \frac{(A_x)(C_{is})(F_v)(D_f)}{(A_{is})(RRF)(V_s \text{ or } W_s)(\%S/100)}$$

$$\%Recovery = (SSC/SA) * 100$$

$$RPD = \frac{((SSCMS - SSCMSD) * 2)}{(SSCMS + SSCMSD)} * 100$$

Where: A_x = Area of the target analyte
 A_{is} = Area for the specific internal standard
 C_{is} = Concentration of internal standard
 F_v = Final volume of extract
 D_f = Dilution factor
 RRF = Average relative response factor of the target analyte
 V_s = Initial volume of the sample
 W_s = Initial weight of the sample
 $\%S$ = Percent Solid
 SSC = Spiked sample concentration
 SA = Spike added
 MS = Matrix spike
 MSD = Matrix spike duplicate

MS/MSD samples: 67 4 + 5

Compound	Spike Added (ng/L)		Sample Concentration (ng/L)	Spiked Sample Concentration (ng/L)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc	Reported	Recalc	Reported	Recalc
Phenol	40.0	40.0	ND	12.692	13.572	33	32	35	34	7	7
N-Nitroso-di-n-propylamine	↓	↓	↓	25.452	23.850	63	64	60	60	4	6
4-Chloro-3-methylphenol	↓	↓	↓	29.309	26.718	83	73	78	67	7	9
Acenaphthene	NA	NA				73		68			
Pentachlorophenol	↓	↓									
Pyrene	↓	↓									

LDC #: 5738A2a

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

$$SSC = \frac{(A_x)(C_{is})(F_v)(D_f)}{(A_{is})(RRF)(V_s \text{ or } W_s)(\%S/100)}$$

$$\%Recovery = (SSC/SA)*100$$

$$RPD = ((SSCLCS - SSCLCSD) * 2) / (SSCLCS + SSCLCSD) * 100$$

Where: A_x = Area of the target analyte
 A_{is} = Area for the specific internal standard
 C_{is} = Concentration of internal standard
 F_v = Final volume of extract
 D_f = Dilution factor
 RRF = Average relative response factor of the target analyte
 W_s = Initial weight of the sample
 $\%S$ = Percent Solid
 SSC = Spiked sample concentration
 LCS = Laboratory control sample
 $LCSD$ = Laboratory control sample duplicate
 V_s = Initial volume of the sample

LCS/LCSD samples: WG1809554-2/3

Compound	Spike Added (ug/L)		Spike Concentration (ug/L)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol	40	40	12.624	12.899	32	32	32	32	0	2
N-Nitroso-di-n-propylamine	↓	↓	26.848	27.992	67	67	70	70	4	4
4-Chloro-3-methylphenol	↓	↓	30.326	32.147	76	76	80	80	5	6
Acenaphthene	ND									
Pentachlorophenol	↓									
Pyrene	↓									

LDC #: 57388 A2a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
 Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 E)

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

$$\text{Concentration} = \frac{(A_x)(I_s)(V_i)(DF)(2.0)}{(A_s)(RRF)(V_o)(V_i)(\%S)}$$

- A_x = Area of the characteristic ion (EICP) for the target analyte to be measured
- A_s = Area of the characteristic ion (EICP) for the specific internal standard
- I_s = Amount of internal standard added in nanograms (ng)
- V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).
- V_i = Volume of extract injected in microliters (ul)
- V_t = Volume of the concentrated extract in microliters (ul)
- Df = Dilution Factor.
- %S = Percent solids, applicable to soil and solid matrices only.
- 2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. WG1809554-LCS A

$$\text{Conc.} = \frac{(95183)(40)(1)(1000)}{(29094)(1553)(1000)}$$

= 1.442

12.627 ug/l

#	Sample ID	Target Analyte	Reported Concentration (ug/l)	Calculated Concentration (ug/l)	Qualification
	<u>LCA LCS</u>	<u>A</u>	<u>12.624</u>	<u>12.627</u>	

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW-846 Method 8270E-SIM)
 SVD

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	Δ Δ	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	Δ Δ	% PSD ≤ 20 ICV ≤ 30
IV.	Continuing calibration	SW	CV ≤ 20
V.	Laboratory Blanks	Δ	
VI.	Field blanks	N	
VII.	Surrogate spikes	Δ	
VIII.	Matrix spike/Matrix spike duplicates	Δ	
IX.	Laboratory control samples	SW	Res ID
X.	Field duplicates	SW	D = 1, 3
XI.	Internal standards	Δ	
XII.	Target analyte quantitation	Δ	Results < RL > MDL = Idet
XIII.	Target analyte identification	Δ	
XIV.	Overall assessment of data	Δ	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

	Client ID	Lab ID	Matrix	Date
1	YS-MW-2023-01-072623 7	L234170-01	Water	07/26/23
2	MW-01-072623	L234170-02	Water	07/26/23
3	YS-MW-BD-072623 7	L234170-03	Water	07/26/23
4	YS-MW-2023-01-072623MS	L234170-01MS	Water	07/26/23
5	YS-MW-2023-01-072623MSD	L234170-01MSD	Water	07/26/23
6				
7				
8				
9				
10				

Notes:

WG1809555 - 1 blank				

Method: Semivolatiles (EPA SW 846 Method 8270 EBSIM)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) \leq 20% 15/30% and relative response factors (RRF) within method criteria?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of \geq 0.990?			✓	
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) $<$ 20% 30%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) \leq 20% and relative response factors (RRF) within method criteria?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the blanks validation findings worksheet.		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?		✓		
Were target analytes detected in the field blanks?			✓	
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any percent recoveries (%R) was less than 10%, was a reanalysis performed to confirm %R?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	✓			

LDC #: 573 S8A2h

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: FT

Validation Area	Yes	No	NA	Findings/Comments
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
IX. Laboratory control samples				
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		/		
X. Field duplicates				
Were field duplicate pairs identified in this SDG?	/			
Were target analytes detected in the field duplicates?	/			
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	/			
Were retention times within + 30 seconds of the associated calibration standard?	/			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	/			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	/			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XIII. Target analyte identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	/			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	/			
Were chromatogram peaks verified and accounted for?	/			
Were manual integrations reviewed and found acceptable?			/	
Did the laboratory provide before and after integration printouts?			/	
XIV. System performance				
System performance was found to be acceptable.	/			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	CC. Dimethylphthalate	EEE. Bis(2-ethylhexyl)phthalate	GGGG. C30-Hopane	I1. Methyl methanesulfonate
B. Bis (2-chloroethyl) ether	DD. Acenaphthylene	FFF. Di-n-octylphthalate	HHHH. 1-Methylphenanthrene	J1. Ethyl methanesulfonate
C. 2-Chlorophenol	EE. 2,6-Dinitrotoluene	GGG. Benzo(b)fluoranthene	IIII. 1,4-Dioxane	K1. o,o',o"-Triethylphosphorothioate
D. 1,3-Dichlorobenzene	FF. 3-Nitroaniline	HHH. Benzo(k)fluoranthene	JJJJ. Acetophenone	L1. n-Phenylene diamine
E. 1,4-Dichlorobenzene	GG. Acenaphthene	III. Benzo(a)pyrene	KKKK. Atrazine	M1. 1,4-Naphthoquinone
F. 1,2-Dichlorobenzene	HH. 2,4-Dinitrophenol	JJJ. Indeno(1,2,3-cd)pyrene	LLLL. Benzaldehyde	N1. N-Nitro-o-toluidine
G. 2-Methylphenol	II. 4-Nitrophenol	KKK. Dibenz(a,h)anthracene	MMMM. Caprolactam	O1. 1,3,5-Trinitrobenzene
H. 2,2'-Oxybis(1-chloropropane)	JJ. Dibenzofuran	LLL. Benzo(g,h,i)perylene	NNNN. 2,6-Dichlorophenol	P1. Pentachlorobenzene
I. 4-Methylphenol	KK. 2,4-Dinitrotoluene	MMM. Bis(2-Chloroisopropyl)ether	OOOO. 1,2-Diphenylhydrazine	Q1. 4-Aminobiphenyl
J. N-Nitroso-di-n-propylamine	LL. Diethylphthalate	NNN. Aniline	PPPP. 3-Methylphenol	R1. 2-Naphthylamine
K. Hexachloroethane	MM. 4-Chlorophenyl-phenyl ether	OOO. N-Nitrosodimethylamine	QQQQ. 3&4-Methylphenol	S1. Triphenylene
L. Nitrobenzene	NN. Fluorene	PPP. Benzoic Acid	RRRR. 4-Dimethyldibenzothiophene (4MDT)	T1. Octachlorostyrene
M. Isophorone	OO. 4-Nitroaniline	QQQ. Benzyl alcohol	SSSS. 2/3-Dimethyldibenzothiophene (4MDT)	U1. Famphur
N. 2-Nitrophenol	PP. 4,6-Dinitro-2-methylphenol	RRR. Pyridine	TTTT. 1-Methyldibenzothiophene (1MDT)	V1. 1,4-phenylenediamine
O. 2,4-Dimethylphenol	QQ. N-Nitrosodiphenylamine	SSS. Benzidine	UUUU.. 2,3,4,6-Tetrachlorophenol	W1. Methapyriene
P. Bis(2-chloroethoxy)methane	RR. 4-Bromophenyl-phenylether	TTT. 1-Methylnaphthalene	VVVV. 1,2,4,5-Tetrachlorobenzene	X1. Pentachloroethane
Q. 2,4-Dichlorophenol	SS. Hexachlorobenzene	UUU. Benzo(b)thiophene	WWWW.. 2-Picoline	Y1. 3,3'-Dimethylbenzidine
R. 1,2,4-Trichlorobenzene	TT. Pentachlorophenol	VVV. Benzonaphthothiophene	XXXX. 3-Methylcholanthrene	Z1. o-Toluidine
S. Naphthalene	UU. Phenanthrene	WWW. Benzo(e)pyrene	YYYY. a,a-Dimethylphenethylamine	A2. 1-Naphthylamine
T. 4-Chloroaniline	VV. Anthracene	XXX. 2,6-Dimethylnaphthalene	ZZZZ. Hexachloropropene	B2. 4-Aminobiphenyl
U. Hexachlorobutadiene	WW. Carbazole	YYY. 2,3,5-Trimethylnaphthalene	A1. N-Nitrosodiethylamine	C2. 4-Nitroquinoline-1-oxide
V. 4-Chloro-3-methylphenol	XX. Di-n-butylphthalate	ZZZ. Perylene	B1. N-Nitrosodi-n-butylamine	D2. Hexachloropene
W. 2-Methylnaphthalene	YY. Fluoranthene	AAAA. Dibenzothiophene	C1. N-Nitrosomethylethylamine	E2. Bis (2-chloro-1-methylethyl) ether
X. Hexachlorocyclopentadiene	ZZ. Pyrene	BBBB. Benzo(a)fluoranthene	D1. N-Nitrosomorpholine	F2. Bifenthrin
Y. 2,4,6-Trichlorophenol	AAA. Butylbenzylphthalate	CCCC. Benzo(b)fluorene	E1. N-Nitrosopyrrolidine	G2. Cyfluthrin
Z. 2,4,5-Trichlorophenol	BBB. 3,3'-Dichlorobenzidine	DDDD. cis/trans-Decalin	F1. Phenacetin	H2. Cypermethrin
AA. 2-Chloronaphthalene	CCC. Benzo(a)anthracene	EEEE. 1,1'-Biphenyl	G1. 2-Acetylaminofluorene	I2. Permethrin (cis/trans)
BB. 2-Nitroaniline	DDD. Chrysene	FFFF. Retene	H1. Pronamide	J2. 5-Nitro-o-toluidine

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

METHOD: GC/MS SVOA (EPA SW 846 Method 8270 \Rightarrow S/M)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y N N/A Were a laboratory control samples (LCS) and laboratory control sample duplicate (LCSD) analyzed for each matrix in this SDG?
 Y N N/A Were the LCS percent recoveries (%R) and relative percent differences (RPD) within the QC limits?

Level IV/D Only

- Y N N/A Was an LCS analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

LCS/LCSD ID	Compound	LCS % Recovery	LCSD % Recovery	LCS/LCSD %Recovery limits	RPD (Limits)	Associated Samples	Qualifications
W91809555-	SS	39		40-140	()	All	J/W/P ND
2/3	K	39		40-140	()	↓	↓ ↓
					()		
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LDC #: 57388A26

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: PM

METHOD: GC/MS BNA (EPA SW 846 Method 8270 \bar{E})

Y N N/A
Y N N/A

Were field duplicate pairs identified in this SDG?
Were target compounds identified in the field duplicate pairs?

Compound	Concentration (<u>ug/L</u>)		RPD (≤ %)	QUAL
	1	3		
YY	0.05	0.104	NE ↓	/
CC	0.02	0.104		
GG	0.03	0.104		
UU	0.02	0.104		
ZZ	0.04	0.104		

Compound	Concentration ()		RPD (≤ %)	QUAL

Compound	Concentration ()		RPD (≤ %)	QUAL

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GCMS PAH 8270E SIM

The calibration factors (RRFF), average RRFF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

$RRF = (Ax)(Cis)/(Ais)(Cx)$

average RRF = sum of the RRFs/number of standards

$\%RSD = 100 * (S/X)$

Where:

Ax = Area of compound

Cx = Concentration of compound

S = Standard deviation of the RRFs

X = Mean of the RRFs

Ais = Area of associated internal standard

Cis = Concentration of internal Standard

#	Standard ID	Calibration Date	Compound	Reported (RRF 1 ug/ml std)	Recalculated (RRF 1 ug/ml std)	Reported AverageRRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
	ICAL	2/22/2023	S	1.035	1.035	1.030	1.030	1.77	1.77
	SV120		GG	1.375	1.375	1.364	1.364	1.92	1.92
			UU	1.095	1.095	1.099	1.099	3.18	3.18
			DDD	1.380	1.380	1.368	1.368	3.39	3.39
			III	0.980	0.980	0.990	0.990	9.79	9.79

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270 \bar{C}) S 1M

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the target analytes identified below using the following calculation:

% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$
 $\text{RRF} = (A_x)(C_{is}) / (A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
 A_x = Area of target analyte
 C_x = Concentration of target analyte

RRF = continuing calibration RRF
 A_{is} = Area of associated internal standard
 C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Target Analyte (Internal Standard)	Average RRF (Initial)	Reported	Recalculated	Reported	Recalculated
					RRF (CC)	RRF (CC)	%D	%D
1	ccv	8/1/23 0732	S (1st IS)	1.030	0.949	0.949	7.9	7.9
			GG (2nd IS)	1.364	1.186	1.186	13	13
			UU (3rd IS)	1.099	0.938	0.938	14.6	14.6
			DDP (4th IS)	1.368	1.129	1.129	17.5	17.5
			111 (5th IS)	0.990	0.953	0.953	3.7	3.7
			(6th IS)					
2	ccv	8/8/23 0757	S (1st IS)	1.030	0.959	0.959	6.9	6.9
			GG (2nd IS)	1.364	1.216	1.216	10.9	10.9
			UU (3rd IS)	1.099	0.957	0.957	12.9	12.9
			DDP (4th IS)	1.368	1.15	1.15	15.9	15.9
			111 (5th IS)	0.990	0.928	0.928	6.3	6.3
			(6th IS)					
3			(1st IS)					
			(2nd IS)					
			(3rd IS)					
			(4th IS)					
			(5th IS)					
			(6th IS)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 57388 A2b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270 E) SIM

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	25.0	20.359	81	81	0
2-Fluorobiphenyl	↓	16.107	64	64	
Terphenyl-d14	↓	17.083	68	68	↓
Phenol-d5	50.0	15.265	31	31	
2-Fluorophenol	↓	22.356	45	45	
2,4,6-Tribromophenol	↓	33.769	68	68	↓

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					

LDC #: 57388 A2b

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
 Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 E)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the target analytes identified below using the following calculation:

$$SSC = \frac{(A_x)(C_{is})(F_v)(D_f)}{(A_{is})(RRF)(V_s \text{ or } W_s)(\%S/100)}$$

$$\%Recovery = (SSC/SA) * 100$$

$$RPD = \frac{((SSCMS - SSCMSD) * 2)}{(SSCMS + SSCMSD)} * 100$$

Where: A_x = Area of the target analyte
 A_{is} = Area for the specific internal standard
 C_{is} = Concentration of internal standard
 F_v = Final volume of extract
 D_f = Dilution factor
 RRF = Average relative response factor of the target analyte
 W_s = Initial weight of the sample
 $\%S$ = Percent Solid
 SSC = Spiked sample concentration
 SA = Spike added
 MS = Matrix spike
 MSD = Matrix spike duplicate
 V_s = Initial volume of the sample

MS/MSD samples: 4 + 5

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Percent Recovery		RPD	
						Reported	Recalc	Reported	Recalc	Reported	Recalc
Phenol											
N-Nitroso-di-n-propylamine											
4-Chloro-3-methylphenol				²³							
Acenaphthene	40.0	40.0	ND	58 24		58	58	60	60	4	4
Pentachlorophenol	↓	↓	↓	30	27	75	75	68	68	11	11
Pyrene	↓	↓	0.04	26	26	65	65	65	65	0	0

LDC #: 57388A2b

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 1 of 1
 Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

$$SSC = \frac{(A_x)(C_{is})(F_v)(D_f)}{(A_{is})(RRF)(V_s \text{ or } W_s)(\%S/100)}$$

$$\%Recovery = (SSC/SA) * 100$$

$$RPD = \frac{((SSCLCS - SSCLCSD) * 2)}{(SSCLCS + SSCLCSD)} * 100$$

Where: A_x = Area of the target analyte
 A_{is} = Area for the specific internal standard
 C_{is} = Concentration of internal standard
 F_v = Final volume of extract
 D_f = Dilution factor
 RRF = Average relative response factor of the target analyte
 W_s = Initial weight of the sample
 $\%S$ = Percent Solid
 SSC = Spiked sample concentration
 LCS = Laboratory control sample
 $LCSD$ = Laboratory control sample duplicate
 V_s = Initial volume of the sample

LCS/LCSD samples: NG1409555-2/3

Compound	Spike Added (ng/L)		Spike Concentration (ng/L)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery		Percent Recovery		RPD	
					Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol										
N-Nitroso-di-n-propylamine										
4-Chloro-3-methylphenol										
Acenaphthene	10.0	10.0	4.724	5.323	47	47	53	53	12	12
Pentachlorophenol	↓	↓	6.902	7.368	65	65	74	74	13	12
Pyrene	↓	↓	5.551	6.159	56	56	62	62	10	10

LDC #: 5738A2b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
 Reviewer: FT

METHOD: GC/MS BNA (EPA SW 846 Method 8270 \bar{c}) \bar{S} \bar{M}

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

$$\text{Concentration} = \frac{(A_x)(I_s)(V_i)(DF)(2.0)}{(A_s)(RRF)(V_o)(V_i)(\%S)}$$

- A_x = Area of the characteristic ion (EICP) for the target analyte to be measured
- A_s = Area of the characteristic ion (EICP) for the specific internal standard
- I_s = Amount of internal standard added in nanograms (ng)
- V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).
- V_i = Volume of extract injected in microliters (ul)
- V_1 = Volume of the concentrated extract in microliters (ul)
- Df = Dilution Factor.
- %S = Percent solids, applicable to soil and solid matrices only.
- 2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #1, UV

$$\text{Conc.} = \frac{(512)(4.0)(1.9)(1000)}{(80101)(1.099)(1000)}$$

= 0.0233 ug/L

#	Sample ID	Target Analyte	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Qualification
	#1	UV	0.02	0.0233	

Site: 42 York Street
Laboratory: Alpha Analytical, Inc., Westborough, MA
Report No.: L2343170
Reviewer: Nancy Carpenter and Pei Geng/Laboratory Data Consultants for LaBella - Rochester, NY
Date: September 25, 2023

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
YS-MW-2023-01-072623	L234170-01	Metals
MW-01-072623	L234170-02	Metals
YS-MW-BD-072623	L234170-03	Metals
YS-MW-2023-01-072623MS	L234170-01MS	Metals
YS-MW-2023-01-072623MSD	L234170-01MSD	Metals

Associated QC Samples(s):

Field/Trip Blanks: None Associated

Field Duplicate pair: YS-MW-2023-01-072623 and YS-MW-BD-072623

The above-listed water samples were collected on July 26, 2023 and were analyzed for metals by SW-846 methods 6020B/7470A. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for ICP-MS Data Validation*, SOP No. HW-3b, ISM02.2, Revision 1 (September 2016), the USEPA Region 2 *Standard Operating Procedure for Mercury and Total Solids Data Validation*, SOP No. HW-3c, ISM02.2, Revision 1 (September 2016), and the USEPA *National Functional Guidelines for Inorganic Superfund Data Review*, EPA 542-R-20-006 (November 2020), modified as necessary to accommodate the non-CLP methodologies used.

The inorganic data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- Holding Times and Sample Preservation
- Instrument Calibration
- Contract Required Quantitation Limit (CRQL) Standard Recoveries
- Blank Analysis Results
- Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
- Matrix Spike (MS) Results
- Laboratory Duplicate Results
- Laboratory Control Sample (LCS) Results
- Serial Dilution Results
- Field Duplicate Results
- Detection Limits Results
- Sample Quantitation Results

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

Instrument Calibration

Analytes that did not meet criteria are summarized in the following table.

Date	Calibration ID	Analyte	%R (Limits)	Associated Samples	Validation Action
08/01/23	LLCCV (09:13)	Beryllium Chromium	64.798 (70-130) 52.037 (70-130)	YS-MW-2023-01-072623	J detects/UJ nondetects J detects/UJ nondetects
08/09/23	LLCCV (06:46)	Beryllium Chromium Silver	65.86 (70-130) 59.974 (70-130) 61.56 (70-130)	MW-01-072623 YS-MW-BD-072623	J detects/UJ nondetects J detects/UJ nondetects J detects/UJ nondetects
08/09/23	LLCCV (06:46)	Zinc	132.07 (70-130)	YS-MW-BD-072623	J detects

The beryllium, chromium, and silver results may be biased low due to low calibration percent recoveries. The results can be used for project objectives as estimated values (J) or nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

The zinc result may be biased high due to high calibration percent recoveries. The result can be used for project objectives as an estimated value (J) which may have a minor impact on the data usability.

Although the calcium, iron, aluminum, and zinc CRQL standards were outside validation limits, no action was taken since the affected sample is greater than two times the reporting limit (RL).

Blank Results

Analytes were detected below the reporting limits in the laboratory blank samples. The following table summarizes the contamination and validation actions taken.

Blank ID	Analyte	Level Detected	Action Level	Associated Samples
ICB/CCB	Thallium	0.187 ug/L	RL	YS-MW-2023-01-072623

Blank ID	Analyte	Level Detected	Action Level	Associated Samples
ICB/CCB	Thallium	0.336 ug/L	RL	MW-01-072623 YS-MW-BD-072623

Blank Actions for analytes detected below the reporting limit(RL).

If the sample result is < RL, report the result as nondetect (U) at the RL.

If the sample result is > RL or nondetect, no action is required.

Blank Actions for analytes detected above the reporting limit or RL.

If the sample result is < RL and < action level; report the result as nondetect (U) at the RL.

If the sample result is > RL and < action level; report the result as nondetect (U) at the reported value.

If the sample result is > action level or nondetect, no action is required.

No samples were qualified since the associated sample results were nondetect.

A field blank was not associated with this sample set. Validation action was not required on this basis.

ICP ICS Results

Analytes were within control limits in the ICSA and ICSAB analyses.

MS/MSD Results

MS/MSD analyses were performed on sample YS-MW-2023-01-072623 for metals analyses. For YS-MW-2023-01-072623MS/MSD, no data were qualified for calcium percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration.

Laboratory Duplicate Results

Laboratory duplicates were not associated with this sample set. Validation action was not required on this basis.

LCS Results

All criteria were met.

Serial Dilution Results

A serial dilution analysis was performed on sample YS-MW-2023-01-072623 for metals analyses. All criteria were met.

Field Duplicate Results

Samples YS-MW-2023-01-072623 and YS-MW-BD-072623 were submitted as the field duplicate pair with this sample group. The following table summarizes the concentrations.

Analyte	Concentration (mg/L)		RPD
	YS-MW-2023-01-072623	YS-MW-BD-072623	
Aluminum	0.251	0.123	68
Arsenic	0.00151	0.00125	19
Barium	0.1529	0.09536	46
Cadmium	0.00015	0.00020U	Not comparable
Calcium	115	107	7
Chromium	0.00105	0.00084	22
Cobalt	0.00031	0.00018	53
Copper	0.1022	0.01216	157
Iron	0.681	0.247	94
Lead	0.01577	0.00236	148
Magnesium	25.9	27.1	5
Manganese	0.08169	0.04268	63
Nickel	0.00357	0.00109	106
Potassium	7.32	6.72	9
Selenium	0.00538	0.00502	7
Sodium	5.88	6.21	5
Vanadium	0.00187	0.00500U	Not comparable
Zinc	0.1250	0.01936	146

Detection Limits Results

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the metals analyses. These results were estimated (J) by the laboratory.

Dilutions were not required for metals analyses.

Sample Quantitation Results

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

- U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.
- J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified “J” data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The ‘J’ data may be biased high or low or the direction of the bias may be indeterminable.
- UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified “UJ” data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The ‘UJ’ data may be biased low.
- R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

LDC #: 57388A4a

VALIDATION COMPLETENESS WORKSHEET

Date: 9/22/23


SDG #: L2343170

Category B

Page: 1 of 1

Laboratory: Alpha Analytical, Inc., Westborough, MA

Reviewer: NC

2nd Reviewer: 

METHOD: Metals (EPA SW-846 Method 6020B/7470A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	SW	
IV.	ICP Interference Check Sample (ICS) Analysis	SW	
V.	Laboratory Blanks	SW	
VI.	Field Blanks	N	
VII.	Matrix Spike/Matrix Spike Duplicates	SW	MS/MSD (4, 5): Ca > 4X spike amount.
VIII.	Duplicate sample analysis	N	
IX.	Serial Dilution	A	
X.	Laboratory control samples	A	LCS
XI.	Field Duplicates	SW	(1, 3)
XII.	Internal Standard (ICP-MS)	A	
XIII.	Target Analyte Quantitation	A	MDL < samples < RL: Jdet/A
XIV.	Overall Assessment of Data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB = Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	YS-MW-2023-01-072623	L234170-01	Water	07/26/23
2	MW-01-072623	L234170-02	Water	07/26/23
3	YS-MW-BD-072623	L234170-03	Water	07/26/23
4	YS-MW-2023-01-072623MS	L234170-01MS	Water	07/26/23
5	YS-MW-2023-01-072623MSD	L234170-01MSD	Water	07/26/23
6				
7				
8				
9				
10				

Notes: _____

All elements are applicable to each sample as noted below.

Sample ID	Target Analyte List
1, 2, 3	Metals by EPA SW-846 Method 6020B, Mercury by EPA SW-846 Method 7470A
QC	
4, 5	Metals by EPA SW-846 Method 6020B, Mercury by EPA SW-846 Method 7470A

Analysis Method

ICP-MS	Metals by EPA SW-846 Method 6020B
CVAA	Mercury by EPA SW-846 Method 7470A

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	Yes	No	NA	Comments
I. Technical holding times				
Were all technical holding times met?	Yes			
Were all water samples preserved to a pH of <2.	Yes			
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?	Yes			
Were %RSDs of isotopes in the tuning solution ≤5%?	Yes			
III. Calibration				
Were all instruments calibrated daily?	Yes			
Were the proper standards used?	Yes			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	Yes			
Were the low level standard checks within 70-130%?		No		
Were all initial calibration correlation coefficients within limits as specified by the method?	Yes			
IV. Interference Check Sample				
Were the interference check samples performed daily?	Yes			
Were the AB solution recoveries within 80-120%?			NA	ICSA only. ICSAB not provided/not reviewed.
V. Blanks				
Was a method blank associated with every sample in this SDG?	Yes			
Was there contamination in the method blanks?		No		
Was there contamination in the initial and continuing calibration blanks?	Yes			
VI. Field Blanks				
Were field blanks identified in this SDG?		No		
Were target analytes detected in the field blanks?			NA	
VII. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)		No		

Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?	Yes			
METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	Yes	No	NA	Comments
VIII. Serial Dilutions				
Were all percent differences <10%?	Yes			
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		No		
IX. Laboratory Control Samples				
Was a LCS analyzed for each batch in the SDG?	Yes			
Were the LCS recoveries and RPDs (if applicable) within QC limits?	Yes			
X. Field Duplicates				
Were field duplicates identified in this SDG?	Yes			
Were target analytes detected in the field duplicates?	Yes			
XI. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?	Yes			
If the recoveries were outside the limits, was a reanalysis performed?	Yes			
XII. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	Yes			
Were all soil samples dry weight corrected?			NA	
XIII. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	Yes			

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

All low level calibration check standards were performed at the required frequency and were within the acceptance limits with the following exceptions:

Date	Time	Calibration ID	Analyte	%R	%R Limits	Associated Samples	Qualification*	Det/ND
8/1/2023	9:13	LLCCV	Be	64.798	70-130	1	J/UJ/P	ND
			Ca	220.2			NQ > 2X RL	Det
			Cr	52.037			J/UJ/P	Det
			Fe	22.765			NQ > 2X RL	Det
8/9/2023	6:46	LLCCV	Be	65.86		2, 3	J/UJ/P	ND
			Al	159.37			NQ > 2X RL	Det
			Ca	407.55			NQ > 2X RL	Det
			Cr	59.974			J/UJ/P	Det
			Fe	56.644			NQ > 2X RL	Det
			Ag	61.56			J/UJ/P	ND
			Zn	132.07		2	NQ > 2X RL	Det
			Zn			3	J/UJ/P	Det

Comments: *Only results that are non-detect or <2X the reporting limit require qualification.

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)
 Soil preparation factor applied (if applicable):

Sample Concentration, unless otherwise noted: mg/L

Associated Samples: 1

				Sample Identification								
Analyte	PB (units)	Maximum ICB/CCB (ug/L)	Action Level									
TI		0.187	0.000935									

Sample Concentration, unless otherwise noted: mg/L

Associated Samples: 2, 3

				Sample Identification								
Analyte	PB (units)	Maximum ICB/CCB (ug/L)	Action Level									
TI		0.336	0.00168									

Comments: The listed analyte concentration is the highest ICB or CCB detected in the analysis. The action level, when applicable, is established at 5X the highest ICB, CCB, or PB concentration.

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020)

All interference check sample A standards were performed at the required frequency with no contamination present with the following exceptions:

Date	Time	Calibration ID	Analyte		Associated Samples	Qualification*	
8/1/2023	9:17	R1724650-9	Al, Ca, Fe, Mg, K, Na		1	NQ - ICSA passes the criteria, but it was analyzed in a previous ICAL.	

Comments: *For 6010, qualification is only necessary when the interfering elements (Al, Ca, Fe, Mg) are >90% the level in the ICSA. The ICSA action level is established at 10x the absolute value of the contamination.

Field Duplicates

Method: Metals

Analyte	Concentration (mg/L)		RPD (≤ 30)
	1	3	
Aluminum	0.251	0.123	68
Arsenic	0.00151	0.00125	19
Barium	0.1529	0.09536	46
Cadmium	0.00015	0.00020U	NC
Calcium	115	107	7
Chromium	0.00105	0.00084	22
Cobalt	0.00031	0.00018	53
Copper	0.1022	0.01216	157
Iron	0.681	0.247	94
Lead	0.01577	0.00236	148
Magnesium	25.9	27.1	5
Manganese	0.08169	0.04268	63
Nickel	0.00357	0.00109	106
Potassium	7.32	6.72	9
Selenium	0.00538	0.00502	7
Sodium	5.88	6.21	5
Vanadium	0.00187	0.00500U	NC
Zinc	0.1250	0.01936	146

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

An initial calibration verification (ICV), continuing calibration verification (CCV), low level calibration check (LLCC), and interference check sample (ICSAB) percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis

True = concentration of each analyte in the source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
R1724650-1 ICV	ICP-MS	Sb	48.981	50	97.962	98	Y
R1727793-6 CCV	ICP-MS	Pb	61.196	60	101.9933333	102	Y
LLCCV 8/9/23 @ 06:46	ICP-MS	As	0.517	0.5	103.4	103.308	Y
R1727793-3 ICSA	ICP-MS	Al	20368.481	20000	101.842405	102	Y
R1725209-1 ICV	CVAA	Hg	0.002929	0.003	97.63333333	98	Y
R1729427-17 CCV	CVAA	Hg	0.005158	0.005	103.16	103	Y

ICP-MS Tune	QC Parameter	Mass	Actual	Required
R1724650-36	Mass Axis	59	58.9352	± 0.1 amu
R1724650-36	%RSD	7	1.4	≤ 5%

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Percent recoveries (%R) for the laboratory control sample (LCS), matrix spike (MS), and post digestion spike (PDS) were recalculated using the following formula:

$$\%R = (\text{Found}/\text{True}) \times 100$$

Found = concentration of each analyte measured in the analysis. For the MS calculation, Found = SSR (Spiked Sample Result) - SR (Sample Result)

True = concentration of each analyte in the source

The sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$\text{RPD} = (\text{Absolute value}(S-D) \times 200) / (S+D)$$

S = Original sample concentration

D = Duplicate sample concentration

The serial dilution percent difference (%D) was recalculated using the following formula.

$$\%D = (\text{Absolute value}(I - \text{SDR})) \times 100 / (I)$$

I = Initial sample result

SDR = Serial dilution result (with a 5x dilution applied)

Sample ID	Type of Analysis	Element	Found/S/I	True/D/SDR	Recalculated %R/RPD/%D	Reported %R/RPD/%D	Acceptable (Y/N)
WG1809790-2	LCS	Hg	0.000957	0.001	95.7	96	Y
4	MS	Hg	0.004696	0.005	93.92	94	Y
4, 5	MS/MSD RPD	Cu	0.37356	0.36239	3.035532305	3	Y
1	Serial dilution	Ca	115.314134	107.08816	7.133534906	7	Y

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Analytes were recalculated and verified using the following equation:

$$\text{Concentration} = (\text{Result from raw data} \times \text{Final volume} \times \text{Dilution factor}) / (\text{Initial volume})$$

Sample ID	Analyte	Raw Data (ug/L)	Dilution	Initial Weight/ Volume (mL)	Final Volume (mL)	Reported Result (mg/L)	Recalculated Result (mg/L)	Acceptable (Y/N)
1	K	7323.886	1	50	50	7.32	7.323886	Y
2	Mg	9758.916	1	50	50	9.76	9.758916	Y
3	Zn	19.36	1	50	50	0.01936	0.01936	Y
1	Hg	0.041	1	25	25	0.00020U	0.000041	Y
2	Hg	0.079	1	25	25	0.00020U	0.000079	Y
3	Hg	0.086	1	25	25	0.00020U	0.000086	Y